TEXTILES AND THEIR PRODUCTS

Textiles
COTTON MANUFACTURES
Knit Goods
SILK MANUFACTURES
Wool Manufactures
WOOL SHODDY
Wool Pulling
Wool Scouring
CORDAGE AND TWINE, JUTE GOODS, AND LINEN GOODS
FUR-FELT HATS
Dyeing and Finishing Textiles
FLAX AND HEMP, DRESSED
HAIRCLOTH
MATS AND MATTING
OILCLOTH AND LINOLEUM

TEXTILES.

By ARTHUR J. LECK.

GENERAL STATISTICS.

Scope of the report.—A correlation of all the primary and some of the closely related textile industries is presented here in a combined statistical report. Tables 1 to 13, inclusive, relate to the primary textile industries with their branches, as follows:

Cotton manufactures-

Cotton goods.

Cotton small wares.

Cotton lace.

Wool manufactures-

Woolen goods.

Worsted goods.

Carpets and rugs, other than rag.

Wool-felt hats.

Felt goods.

Knit goods.

Silk manufactures.

Cordage and twine, jute goods, and linen goods.

These industries, together with the related textile industries, all of which are treated separately in other parts of this report, are shown in further combination with certain detail in Table 14. The output of all industries for the United States as a whole was taken into consideration when compiling Table 15, which was specially designed and shown for the first time in connection with the census of 1919.

Comparative summary.—Table 1 is a combined summary of the primary textile industries of the

United States, shown comparatively for each census year since 1899.

Detailed statistics for textile industries.—Statistics for each of the five groups of textile industries are summarized in Table 2 for 1919.

Comparative statistics, by industries.—The principal statistics of the primary textile industries are shown in the comparative Table 3 for the census years from 1889 to 1919, inclusive.

Persons engaged in textile industries.—Statistics for the number of persons engaged in the combined textile industries are given in Table 4, for 1919, 1914, and 1909, by sex and by age.

Prevailing hours of labor.—A distribution of the average number of wage earners according to the prevailing hours of labor for the five groups of textile industries is shown comparatively in Table 5, for 1919, 1914, and 1909.

Character of ownership for industries.—It will be seen by reference to Table 6 that the corporate form of ownership prevailed in all textile industries to a greater extent in 1919 than in either 1914 or 1909.

Number and horsepower of types of prime movers.— The various types of power used in 1919, 1914, and 1909 in the combined textile industries are shown in Table 7, with the number and horsepower of each type, both owned and rented.

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

		TE	XTILE INDUSTRI	es.		PEI	R CENT OF	INCREASE	.1
	1919	1914	1909	1904	1899	1914 1919	1909 1914	1904 1909	1899- 1904
Number of establishments	6,087	4, 991	4,825	4, 268	4, 099	22.0	3.4	13. 1	4, 1
Persons engaged. Proprietorsand firm members. Salaried employees. Wage earners (average number).	1,023,435	911, 780	865, 214	729, 182	(2)	12. 2	5. 4	18.7	(2)
	3,375	3, 013	3, 113	3, 185	(2)	12. 0	-3. 2	-2.3	(2)
	50,800	34, 065	28, 014	21, 946	15, 526	49. 1	21. 6	27.6	41, 3
	969,260	874, 702	834, 087	704, 051	631, 979	10. 8	4. 9	18.5	11, 4
Primary horsepower	2, 822, 572	2,364,986	1, 976, 026	1,526,031	1,229,875	19.3	19.7	29. 5	24. 1
	\$4, 102, 969, 046	\$1,921,923,038	\$1, 717, 794, 601	\$1,254,895,570	\$982,559,386	113.5	11.9	36. 9	27. 7
Salaries and wages.		420, 373, 797	356, 697, 598	263,074,044	217, 407, 397	130. 2	17.9	35. 6	21. 0
Salaries		56, 284, 975	43, 722, 234	29,107,389	21, 035, 396	156. 0	28.7	50. 2	38. 4
Wages		364, 088, 822	312, 975, 364	233,966,655	196, 372, 001	126. 2	16.3	33. 8	19. 1
Paid for contract work Rent and taxes. Cost of materials Value of products. Value added by manufacture 4	65, 444, 591	21, 883, 163	19, 966, 523	9,649,279	11,189,880	199. 1	9.6	106. 9	13, 8
	237, 069, 920	17, 421, 937	12, 613, 985	39,695,917	* 8,219,905	1, 260. 8	38.1	30. 1	18, 0
	3, 001, 263, 746	1,093, 190, 209	950, 995, 374	726,357,481	503,510,534	174. 5	15.0	30. 9	44, 3
	5, 006, 639, 405	1,761,709, 974	1, 591, 735, 706	1,164,705,562	886,882,361	184. 2	10.7	36. 7	31, 3
	2, 005, 375, 659	668, 519, 765	640, 740, 332	438,348,081	383,371,827	200. 0	4.3	46. 2	14, 3

¹ A minus sign (-) denotes decrease.

² Figures not available.

^{*} Exclusive of internal revenue.

TABLE 2.—DETAILED STATISTICS FOR TEXTILE INDUSTRIES: 1919.

	m-1-3	COTTON MANUFACTU	kes.	WOOL	JRES.	KNIT GOO	ods.	SILK MANUFACT	URES.	CORDAGE AND JUTE GOOD LINEN GOOD	S, AND
	Total.	Number or amount.	Per cent of total.	Number or amount.	Per cent of total.	Number or amount.	Per cent of total.	Number or amount.	Per cent of total.	Number or amount.	Per cent of total.
Number of establishments	6,087	1,496	24, 6	1,016	16.7	2,050	33.7	1,369	22. 5	156	2. 6
Persons engaged in the industry Proprietors and firm members Salaried employees Wage earners (average number)	3,875 50,800	462, 873 346 15, 675 446, 852	45, 2 10, 3 30, 9 46, 1	208, 225 488 11, 333 196, 404	20. 3 14. 5 22. 3 20. 3	186,673 1,488 12,613 172,572	18. 2 44. 1 24. 8 17. 8	136, 775 1, 011 8, 982 126, 782	13. 4 30. 0 17. 7 13. 1	28, 889 42 2, 197 26, 650	2.8 1.2 4.3 2.7
Primary horsepower	2, 822, 572 \$4, 102, 969, 046	1,863,542 \$1,914,919,506	66. 0 46. 7	525,757 \$989,746,958	18. 6 24. 1	151,601 \$516,457,991	5. 4 12. 6	176, 825 \$532, 732, 163	6.3 13.0	104, 847 \$149, 112, 428	3. 7 3. 6
Salaries and wages Salaries Wages	967, 615, 399 144, 107, 479 823, 507, 920	410, 487, 673 41, 763, 961 368, 723, 712	42. 4 29. 0 44. 8	236, 773, 202 38, 187, 133 198, 586, 069	24. 5 26. 5 24. 1	157, 526, 402 32, 326, 582 125, 199, 820	16.3 22,4 15.2	134, 597, 292 26, 370, 962 108, 226, 330	13. 9 18. 3 13. 1	28, 230, 830 5, 458, 841 22, 771, 989	2.9 3.8 2.8
Paid for contract work	65, 444, 591	4, 162, 821	6.4	9,316,229	14.2	8, 495, 982	13.0	43, 146, 201	65.9	323, 358	0.5
revenue) Cost of materials Value of products Value added by manufacture ¹	237, 069, 920 3, 001, 263, 746 5, 006, 639, 405 2, 005, 375, 659	123, 148, 109 1, 314, 901, 542 2, 195, 565, 881 880, 664, 339	51. 9 43. 8 43. 9 43. 9	59,758,733 759,193,319 1,234,657,092 475,463,773	25, 2 25, 3 24, 7 23, 7	25, 966, 579 427, 095, 560 713, 139, 689 286, 044, 129	11.0 14.2 14.2 14.3	20, 594, 520 388, 469, 022 683, 469, 523 300, 000, 501	8.7 12.9 13.8 15.0	7,601,979 111,604,303 174,807,220 63,202,917	3, 2 3, 7 3, 5 3, 1

¹ Value of products less cost of materials.

TABLE 3.—COMPARATIVE STATISTICS, BY INDUSTRIES: 1919, 1914, 1909, 1904, 1899, AND 1889.

INDUSTRY AND YEAR.	Num- ber of estab- lish- ments.	Sala- ried em- ploy- ees.	Wage earners (average num- ber).	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufac- ture.1
Total, 1919		50, 800	969, 260	2, 822, 572	\$4, 102, 969, 046	\$144, 107, 479	\$823, 507, 920	\$3,001,263,746	\$5,006,639,405	\$2,005,375,659
Cotton manufactures. Wool manufactures. Knit goods. Silk manufactures. Cordageand twine, jutegoods, and linen goods.		15,675 11,333 12,613 8,982 2,197	446, 852 196, 404 172, 572 126, 782 26, 650	1,863,542 525,757 151,601 176,825 104,847	1, 914, 919, 506 989, 746, 958 516, 457, 991 532, 732, 163 149, 112, 428	41, 763, 961 38, 187, 133 32, 326, 582 26, 370, 962 5, 458, 841	368, 723, 712 198, 586, 069 125, 199, 820 108, 226, 330 22, 771, 989	1,314,901,542 759,193,319 427,095,560 388,469,022 111,604,303	2, 195, 565, 881 1, 234, 657, 092 713, 139, 689 688, 469, 523 174, 807, 220	880, 664, 333 475, 463, 773 286, 044, 125 300, 000, 50 63, 202, 91
Total, 1914	4,991	34,065	874,702	2,364,986	1, 921, 923, 038	56, 284, 975	364, 088, 822	1,093,190,209	1,761,709,974	668, 519, 76
Cotton manufactures. Wool manufactures Knit goods. Silk manufactures. Cordageand twine, jutegoods, and linen goods.	1,328 979 1,622 902 160	10,018 7,853 7,855 6,810 1,529	393, 404 195, 285 150, 520 108, 170 27, 323	1,585,953 442,330 125,842 116,924 93,937	899, 764, 682 497, 699, 293 215, 826, 340 210, 071, 679 98, 561, 044	17,400,000 14,651,788 11,281,035 10,506,905 2,445,247	152, 422, 599 93, 357, 880 59, 758, 151 47, 108, 469 11, 441, 723	443, 522, 515 298, 063, 498 146, 687, 458 144, 442, 321 60, 474, 417	701, 300, 933 464, 249, 813 258, 912, 903 254, 011, 257 83, 235, 668	257, 778, 418 166, 186, 314 112, 225, 444 109, 568, 936 22, 760, 65
Total, 1909	4,825	28,014	834,087	1,976,026	1,717,794,601	43, 722, 234	312, 975, 364	950, 995, 374	1,591,735,706	640, 740, 33
Cotton manufactures. Wool manufactures. Knit goods. Silk manufactures. Cordageand twine, jutogoods, and linen goods.	1,324 1,124 1,374 852 151	8, 514 6, 987 5, 721 5, 537 1, 255	378, 880 202, 029 129, 275 99, 037 24, 866	1,296,517 400,762 103,709 97,947 77,091	822, 237, 529 506, 205, 584 163, 641, 171 152, 158, 002 73, 552, 315	14,411,758 12,306,199 7,691,457 7,527,279 1,785,541	132, 859, 145 87, 962, 669 44, 740, 223 38, 570, 085 8, 843, 242	371,009,470 322,441,043 110,241,053 107,766,916 39,536,892	628, 391, 813 507, 166, 710 200, 143, 527 196, 911, 667 59, 121, 989	257, 382, 34 184, 725, 66 89, 902, 47 89, 144, 75 19, 585, 09
Total, 1904	4, 268	21,946	704, 051	1,526,031	1, 254, 895, 570	29, 107, 389	233, 966, 655	726, 357, 481	1, 164, 705, 562	438, 348, 08
Cotton manufactures. Wool manufactures Knit goods. Silk manufactures. Cordageand twine, jute goods, and linen goods.	1,154 1,213 1,144 624 133	6,981 5,616 4,330 4,027 992	315, 874 179, 976 104, 092 79, 601 24, 508	986, 604 322, 914 78, 769 71, 760 65, 984	613, 110, 655 370, 861, 691 106, 943, 072 109, 556, 621 54, 423, 531	10, 237, 891 8, 177, 345 4, 455, 151 4, 742, 270 1, 494, 732	96, 205, 796 70, 797, 524 31, 614, 607 26, 767, 943 8, 580, 785	286, 255, 303 242, 561, 096 76, 789, 348 75, 861, 188 44, 890, 546	450, 467, 704 380, 934, 003 137, 076, 454 133, 288, 072 62, 939, 329	164, 212, 40 138, 372, 90 60, 287, 10 57, 426, 88 18, 048, 78
Total, 1899	4,099	15, 526	631, 979	1, 229, 875	982, 559, 386	21, 035, 396	196, 372, 001	503, 510, 534	886, 882, 361	383, 371, 82
Cotton manufactures. Wool manufactures. Knit goods. Silk manufactures. Cordage and twine, jute goods, and linen goods.	1,055 1,414 1,006 483 141	4, 902 4, 495 2, 831 2, 657 641	302, 861 159, 108 83, 691 65, 410 20, 903	795, 834 271, 565 57, 346 57, 397 47, 783	467, 240, 157 310, 179, 749 82, 065, 517 81, 082, 201 41, 991, 762	7,350,199 6,455,495 3,138,160 3,134,352 957,190	86, 689, 752 57, 933, 817 24, 434, 497 20, 982, 194 6, 331, 741	176, 551, 527 181, 159, 127 51, 195, 330 62, 406, 665 32, 197, 885	339, 200, 320 296, 990, 484 95, 833, 692 107, 256, 258 47, 601, 607	162, 648, 79 115, 831, 35 44, 638, 36 44, 849, 59 15, 403, 72
Total, 1889		(2)	497, 822	767, 369	729, 332, 978	(3)	171, 373, 880	435, 249, 600	730, 567, 498	295, 317, 89
Cotton manufactures. Wool manufactures Knit goods. Silk manufactures. Cordage and twine, jute goods, and linen goods.	905 1,693 824 472 102	(2) (2) (3) (2) (2) (2)	218, 876 154, 271 59, 774 49, 382 15, 519	464, 881 210, 642 34, 564 29, 638 27, 644	354, 020, 843 245, 886, 743 50, 686, 206 51, 007, 537 27, 731, 649	(3) (3) (3) (3) (3) (3)	69, 489, 272 58, 397, 470 18, 325, 261 19, 680, 318 5, 481, 559	154, 912, 979 167, 233, 987 35, 949, 865 51, 004, 425 26, 148, 344	267, 981, 724 270, 527, 511 67, 446, 788 87, 298, 454 37, 313, 021	113, 068, 74 103, 293, 52 31, 496, 92 36, 294, 02 11, 164, 67
1 17-1			-					*	 	

¹ Value of products less cost of materials.

^{*} Included with wage carners.

Salaries and wages not reported separately.

TABLE 4.—PERSONS ENGAGED IN TEXTILE INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Cen-	Total.	Male.	Female.		CENT OTAL.	CLASS.	Cen-	Total.	Male.	Female.	PER (
CHADSI	year.	Total.	male.	remaie.	Male.	Fe- male.	CHASS.	year.	Total.	Mino.	remaie.	Male.	Fe- male.
All classes	1919 1914 1909	1,023,435 911,780 865,214	524, 682 472, 731 441, 788	498,753 439,049 423,426	51.3 51.8 51.1	48.7 48.2 48.9	Clerks and other subordinate salaried employees.	1919 1914 1909	28,550 22,030 17,040	16, 191 15, 572 12, 818	12,359 6,458 4,222	58.7 70.7 75.2	43.3 20.3 24.8
Proprietors and officials	1919 1914 1909	25,625 15,048 14,087	24,581 14,654 13,682	1,044 394 405	95. 9 97. 4 97. 1	4.1 2.6 2.9	Wage earners (average number)	1919 1914 1909	969, 260 874, 702 834, 087	483,910 442,505 415,288	485, 350 432, 197 418, 799	49.9 50.6 49.8	50.1 49.4 50.2
Proprietors and firm members.	1919 1914 1909	3,375 3,013 3,113	3,234 2,881 2,959	141 132 154	95. 8 95. 6 95. 1	4. 2 4. 4 4. 9	16 years of age and over	1919 1914 1909	023,558 816,858 763,871	464,816 415,143 383,371	458, 742 401, 715 380, 500	50.3 50.8 50.2	49.7 49.2 49.8
Salaried officers of corporations.	1919 1914 1909	7,482 4,639 4,047	7,285 4,564 3,992	197 75 55	97. 4 98. 4 98. 6	2.6 1.6 1.4	Under 16 years of age	1919 1914 1909	45,702 57,844 70,216	19,094 27,362 31,917	26,608 30,482 38,290	41.8 47.3 45.5	58.2 52.7 54.5
Superintendents and managers.	1919 1914 1909	14,768 7,396 6,927	14,062 7,209 6,731	706 187 196	95. 2 97. 5 97. 2	4.8 2.5 2.8							

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK: 1919 AND 1914.

	~		IN	ESTABLISHM	ENTS WHERE	THE PREVAIL	NG HOURS OF	LABOR PER	WEEK WERE-	-
INDUSTRY.	Census year.	Total.	44 and under.	Between 44 and 48.	48,1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 80.
Combined textiles	1919	969, 260	42, 598	18, 207	391,760	135,780	139, 239	183, 523	56, 519	1,634
	1914	874, 702	(2)	(2)	7,764	20,813	432, 039	221, 894	189, 623	2,569
	1909	834, 087	(2)	(2)	2,008	9,927	18, 331	487, 109	245, 139	71,573
Cotton manufactures	1919 1914	446, 852 393, 404	1,697 (2)	(2) 413	173,366 1,145	19,028 3,149	63, 455 158, 287	141, 218 72, 025	47, 208 157, 112	467 1,68 6
Wool manufactures	1919	196, 404	932	10,002	128, 448	15,940	27, 002	11, 47 3	2, 273	334
	1914	195, 285	(2)	(2)	1, 108	4,075	113, 333	64, 599	11, 511	59
Knit goods	1919	172, 572	7, 818	4,701	54, 674	46, 149	30, 387	23, 909	4, 578	356
	1914	150, 520	(²)	(2)	3, 673	7, 860	87, 549	34, 260	16, 515	663
Silk manufactures	1919	126, 782	31, 619	2,909	26,154	47, 286	14,241	3,322	774	477
	1914	108, 170	(²)	(²)	1,160	4, 916	56,632	43,243	2, 190	20
Cordage and twine, jute goods, and linen goods.	1919 1914	26,650 27,323	(2) 532	(2) 182	9,118 669	7,377 213	4,154 16,238	3,601 7,767	1,686 2,295	141

¹ Includes 48 and under for 1914 and 1909.

TABLE 6.—CHARACTER OF OWNERSHIP: 1919 AND 1914.

			BER		AVE	AGE N	UMBER	of W	ige e	ARNEI	85.		V	LUE OF PRO	DUCTS.			
industry.	Cen-		TABLIS MENTS TED B	1			ablish ned by		Perce	entof	total.		Of establ	ishments ow	ned by-	Perc	ent of	total.
	year.	Indi- vid- uals.	pora-	oth-	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	pora-	oth-	Total,	Individ- uals.	Corpora- tions.	All others.		pora-	All oth- ers.
Textile manufactures	1914	1,092 1,013 1,021	3,203	923 775 829	969, 260 874, 702 834, 087	26, 297 36, 718 43, 366	898, 158 775, 142 709, 498	46, 805 62, 842 81, 223	2.7 4.2 5.2	92. 5 88. 6 85. 1	4, 8 7, 2 9, 7	\$5,006,639,405 1,761,709,974 1,591,735,706	\$141,591,247 76,387,577 85,906,055	\$4,605,940,414 1,546,157,035 1,342,574,638	\$259, 107, 744 139, 165, 362 163, 255, 013	4.3	92, 0 87, 8 84, 3	7.9
Cotton manufactures	1919 1914		1,307 1,116	87 107	446,852 393,404	3,215 4,425	438, 884 377, 708	4,753 11,271	0.7 1.1	98. 2 96. 0	1.1 2.9	2, 195, 565, 881 701, 300, 933		2, 154, 402, 091 672, 269, 539		0.7 1.2	98, 1 95, 9	1. 2 2. 9
Wool manufactures	1919 1914	149 176	738 645	129 158	196, 404 195, 285	5,868 9,489	178, 800 167, 863	11, 736 17, 933	3.0 4.9	91.0 85.9	6, 0 9, 2	1,234,657,092 464,249,813	36,925,377 25,951,835	1, 121, 020, 101 303, 585, 924	76,711,614 44,712,054	3.0 5.6	90. 8 84. 8	
Knit goods	1919 1914	564 519	1,096 785	390 318	172, 572 150, 520	9,986 13,907	147, 052 120, 697	15, 534 15, 916	5.8 9.2	85. 2 80. 2	9. 0 10. 6	713, 139, 689 258, 912, 903	47, 200, 801 23, 319, 057	593, 140, 241 208, 404, 357			83. 2 80. 5	10. 2 10. 5
Silk manufactures	1919 1914	250 180	811 543	308 179	126, 782 108, 170	6,498 8,117	108, 531 86, 033	11,753 14,020	5.1 7.5	85.6 79.5	9.3 13.0	688, 469, 523 254, 011, 257	38, 561, 197 16, 407, 605	581, 413, 071 199, 073, 261	68, 495, 255 38, 530, 391	5.6 6.5	84. 5 78. 4	9. 9 15. 2
Cordage and twine, jute goods, and linen goods.	1919 1914	27 33	120 114	9 13	26,650 27,323	730 780	22, 891 22, 841	3,029 3,702	2.7 2.9	85. 9 83. 6	11. 4 13. 5	174, 807, 220 83, 235, 068	3,832,515 1,997,745				89. 2 87. 5	8.6 10.1

² Corresponding figures not available.

TABLE 7.-NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

		BER OF ENG OR MOTORS.				HORSEPOWER.			
POWER.	1919	1014	1000		Amount.		Por ce	ent distribu	tion.
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total	89, 965	30, 527	15, 161	2, 822, 572	2,364,986	1,976,026	100.0	100.0	100.0
Owned Steam ¹ Engines. Turbines. Internal-combustion engines	4,099 3,710 389 213	7, 286 4, 696 (2) (2) (2) 263	7,977 5,131 (2) (2) (2) 289	2, 037, 414 1, 600, 763 1, 190, 956 409, 807 8, 282	1,998,198 1,554,562 (2) (2) (2) 12,403	1,804,584 1,373,645 (2) (2) (2) 9,171	72. 2 56. 7 42. 2 14. 5 0. 3	84. 5 65. 7	91.3 69.5
Water wheels, turbines, and motors	83, 409	2,327 23,241 23,241	2,557 7,184 7,184	428, 369 785, 158 772, 910 12, 248	431, 233 366, 788 347, 751 19, 037	171, 442 150, 997 20, 445	15. 2 27. 8 27. 4 0. 4	18. 2 15. 5 14. 7 0. 8	21.3 8.7 7.6 1.0
Electric Rented Generated by establishments reporting.	139, 235 83, 409 55, 826	52, 195 23, 241 28, 954	19, 483 7, 184 12, 299	1,388,863 772,910 615,953	810, 014 347, 751 462, 263	389, 567 150, 997 238, 570	100. 0 55. 7 44. 3	100. 0 42. 9 57. 1	100. 0 38. 8 61. 2

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

SPECIAL STATISTICS.

Raw fibers consumed, by industries.—The quantity | different branches of the textile industry is given in of the different kinds of raw fiber consumed in the | pounds in the comparative Table 8.

Table 8.—RAW FIBERS CONSUMED, BY INDUSTRIES: 1919, 1914, 1909, AND 1904.

						******			T	ī		
FIBER.	Cen-	Total.	In cotton		IN W00:	L MANUFACT	URES.		In knit	In silk	In cordage and twine,	
PIBER.	sus year.	Total.	manufac- tures.	In woolen goods.	In worsted goods,	In carpets and rugs.	In felt goods.	In woolfelt hats.	goods.	manufac- tures.		In wool shoddy
Cotton (including linters).	1919 1914 1909 1904	Pounds. 2, 905, 779, 683 2, 679, 934, 778 2, 465, 225, 572 1, 981, 804, 446	Pounds. 2, 758, 355, 619 2, 523, 500, 837 2, 335, 344, 906 1, 876, 437, 150	Pounds. 14,629,920 23,915,496 15,801,394 28,279,832	Pounds. 2,745,483 4,471,526 4,222,667 4,333,576	Pounds. 3, 864, 826 3, 802, 789 5, 147, 130 1, 997, 369	Pounds. 1, 442, 406 3, 117, 272 1, 375, 670 1, 982, 624	Pounds.	1 88, 390, 208	Pounds.	Pounds, 31, 685, 111 32, 336, 685 27, 624, 490 18, 142, 735	Pounds. 6, 000 399, 965 293, 292 44, 400
Wool	1919 1914 1909 1904	496, 434, 834 510, 008, 799 559, 850, 995 501, 424, 203	7, 289 41, 400	105, 792, 290 78, 873, 319 87, 037, 951 157, 335, 727	337, 669, 614 355, 854, 756 387, 717, 415 261, 368, 084	36, 261, 904 52, 552, 449 64, 135, 020 51, 320, 521	11, 804, 373 14, 969, 852 12, 409, 826 11, 868, 238	200, 294 606, 957 1, 203, 498 1, 633, 525	4, 518, 068 6, 947, 598 7, 068, 788 17, 300, 616			181, 052 203, 868 237, 097 597, 492
Animal hair	1919 1914 1909 1904	44, 821, 941 41, 549, 822		16, 199, 052 17, 719, 863 23, 754, 714	15, 667, 157 12, 921, 907 7, 441, 659 5, 740, 249	6, 272, 522 3, 469, 283 5, 400, 944 6, 805, 802	19, 663, 511 11, 540, 635 8, 144, 011 6, 974, 634	606 350 1 142, 001 1 210, 027	705, 839 690, 714 191, 344 89, 502	************		442, 483
Silk	1919 1914 1909 1904	27, 857, 055 25, 021, 945 17, 729, 306 11, 572, 783	593, 982 1, 057, 083 257, 102		106,777			***********	1, 265, 568 1, 590, 162	25, 890, 728 22, 374, 700 17, 472, 204 11, 572, 783		
Flax	1919 1914 1909 1904	12, 787, 560 26, 455, 737 28, 063, 703 (³)	1, 738, 139 1, 108, 918	*************							12, 787, 560 24, 717, 598 26, 954, 785	
Hemp, jute, etc	1919 1914 1909 1904	570, 494, 610 751, 008, 927 632, 786, 278 (3)	(2) 50,000 22,087	***************************************				••••••	••••••	*************	570, 494, 610 750, 958, 927	

¹ Includes hatters' fur.

¹ Not reported separately.

² Small quantity reported but not shown, to avoid disclosure of individual operations.

^{*} Figures not available,

Yarns purchased, by industries.—Table 9 gives statistics for the various kinds of yarns used in the different branches of the textile industry.

	TABLE 9.—YARN	PURCHASED.	BY	INDUSTRIES: 19	L9, 1914	, 1909	. AND 1904
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	Census		In cotton		IN WOOL MAN	UFACTURES.			In silk	In cordage	In
KIND OF YARN.	year.	Total.	manu- factures.	In woolen goods.	In worsted goods.	In carpets and rugs.	In felt goods.	In knit goods	manu- factures.	jute goods, and linen goods.	wool shoddy.
Cotton	1919 1914 1909 1904	Pounds. 519,420,163 428,316,706 430,483,305 336,359,633	Pounds. 1 230,061,217 139,482,027 126,707,003 105,411,516	Pounds. 12,854,825 15,316,551 16,888,501 18,878,049	Pounds. 15,828,820 16,788,861 22,280,887 13,719,123	Pounds. 17,309,949 24,619,137 26,166,241 27,421,831	Pounds. 45,757 263,780 203,225 409,453	Pounds. 2 217, 411, 343 2 205, 524, 143 2 16, 987, 611 161, 500, 466	Pounds. 3 17,958,012 3 18,333,810 3 14,111,878 3 9,018,295	Pounds. 7,950,240 7,968,054 7,077,959 (4)	Pounds.
Woolen, worsted, and merino .	1919 1914 1909 1904	100, 602, 636 115, 832, 891 122, 714, 085 102, 272, 635	484,390 656,789 1,613,118 1,428,077	6,879,516 3,898,922 8,035,598 0,582,443	46, 048, 926 52, 427, 109 54, 016, 104 29, 673, 246	21,558,625 30,961,720 37,595,684 44,823,531	8,032 116,338 116,115 124,380	24, 984, 813 25, 784, 095 20, 524, 878 16, 197, 803	638,334 1,987,918 610,588 443,155	(4)	202,000
Thrown silk, spun silk, and artificial silk.	1919 1914 1909 1904	26, 641, 051 14, 239, 146 9, 929, 573 6, 875, 682	2, 261, 392 1, 305, 550 2, 062, 006 412, 589	91,474 111,580 70,959 107,377	353, 130 404, 370 211, 577 304, 930	136, 735 273, 032 196, 840 76, 000	1,238 5,711	9,864,656 3,170,721 982,753 320,671	13, 932, 426 8, 968, 182 6, 405, 438 5, 654, 096	(4)	
Linen,	1919 1914 1909 1904	2,790,459 9,834,110 10,652,249 9,048,018	206, 950 786, 856 669, 532 740, 097	8, 168 12, 685 2, 007	15,000 372 1,500	2, 280, 055 7, 602, 200 8, 792, 876 8, 228, 200	445 338 1,768 20,822	5 241,754	(6)	1.305.898	
Jute, ramie, and other vegetable fiber.	1919 1914 1909 1904	53, 137, 042 66, 759, 424 58, 817, 959 49, 713, 205	227, 574 202, 647 406, 705	1,580,210 1,966,905 1,031,880 395,101	2,748 2,170 13,171	45,119,812 59,148,266 55,592,343 49,119,558	689,320 535,096 114,339 178,150	(7)		1,600,522	70,000
Other kinds	1919 1914 1909 1904	4,420,938 3,294,162 2,060,260 1,219,519	1, 241, 270 357, 435 854, 161 950, 200	94,908	237,677	780, 450			1,042,790 2,936,727 1,063,888 269,319		

1 Includes 5,935,859 pounds of mercerized cotton.
2 Includes 30,519,234 pounds of mercerized cotton in 1919 and 15,672,427 pounds in 1914.
3 Includes 2,826,065 pounds of mercerized cotton in 1919, 1,464,299 pounds in 1914, 1,494,586 pounds in 1909, and 631,247 pounds in 1904.
4 Not reported separately.
5 Includes jute and other vegetable fiber yarns.
6 Included in "Other kinds."
7 Included in "Linen."

Table 10.—Total Production and Consumption of Cotton and Wool Yarns in Textile Industries: 1919 and 1914.

industry.	Cen- sus year.	Cotton yarns.	Woolen and worsted yarns.	Merino yarns.
Production	1919 1914	Pounds. 2, 467, 185, 258 2, 283, 981, 341	Pounds. 375, 936, 802 379, 846, 695	Pounds. 74,525,718 74,338,905
Cotton manufactures	1919 1914	2, 351, 765, 434 2, 179, 764, 168		
Wool manufactures	1919 1914	10,863,432 11,193,902	369, 068, 324 371, 782, 548	56, 961, 185 49, 975, 722
Knit goods	1919 1914	104, 556, 392 93, 023, 271	6, 868, 478 8, 064, 147	17, 564, 533 24, 363, 183
Cordage and twine, jute goods, and linen goods.	1919 1914	28,516,650 32,853,857		
Consumption	1919 1914	1 2, 350, 041, 222 1 2, 178, 567, 309	364, 089, 117 376, 090, 554	69, 425, 095 68, 675, 941
Cotton manufactures	1919 1914	1,963,624,833 1,821,259,196	428,600 654,035	55,790 2,754
Wool manufactures	1919 1914	56, 033, 757 66, 648, 071	338, 608, 785 344, 651, 302	45, 164, 154 40, 159, 842
Knit goods	1919 1914	304, 474, 380 265, 822, 477	24, 413, 398 29, 397, 299	24, 205, 151 28, 513, 345
Cordage and twine, jute goods, and linen goods.	1919 1914	7, 950, 240 7, 968, 054	 	
Silk manufactures	1919 1914	17, 958, 012 16, 869, 511	638, 334 1, 987, 918	

¹ Exclusive of cotton yarn made for own consumption within cordage and twine, jute-goods, and linen-goods establishments, for which figures are not available.

Production and consumption of cotton and wool yarns.—Statistics relating to the production and consumption of yarns made of cotton, wool, and wool and cotton mixed (merino) are given in Table 10.

Producing spindles.—Dating from the census of 1879 to 1919, Table 11 shows the number of active producing spindles used in the manufacture of cotton, silk, woolen, and worsted goods.

TABLE 11.—ACTIVE PRODUCING SPINDLES: 1919, 1914, 1909, 1904, 1899, 1889, AND 1879.

		USED IN THE MANUFACTURE OF—									
CENSUS YEAR.	Total.	Cotton goods.	Silk goods.	Woolen goods.	Worsted goods.						
1919 1914 1909 1904 1899 1889 1879	41, 905, 828 38, 170, 499 33, 849, 850 28, 721, 742 23, 901, 557 1 18, 092, 133 1 13, 170, 743	34,603,471 31,703,863 28,178,862 23,672,064 19,403,984 14,384,180 10,653,435	2, 669, 459 2, 159, 271 1, 761, 758 1, 394, 020 1, 213, 493 718, 360 262, 312	2,345,286 2,079,026 2,156,424 2,456,389 2,229,181 2,332,269 1,915,070	2, 287, 612 2, 227, 739 1, 752, 806 1, 109, 269 994, 899 657, 324 330, 926						

¹ Includes some doubling and twisting spindles, except for silk.

Cotton spindles, by states.—Table 12 gives a distribution, by states—grouped by geographic divisions of the number of cotton spindles in the United States according to location in the different textile industries.

TABLE 12.—ACTIVE PRODUCING COTTON SPINDLES, BY GEOGRAPHIC DIVISIONS AND STATES, FOR TEXTILE INDUSTRIES: 1919 AND 1914.

				ламі	STRY AND CE	nsus year.					
DIVISION AND STATE.		Total.		Cotton mar	unfactures.	Knit g	oods.	Wool man	ulactures.	Cordage a jute go linen goo	ods, and
	1919	1914	1909	1919	1914	1919	1914	1919	1914	1919	1914
UNITED STATES	34,603,471	31,703,863	28, 178, 862	33,795,681	30,915,489	620, 391	591,987	43, 232	78,750	144,167	117,637
NEW ENGLAND	17, 842, 998	17,085,454	15,735,086	17, 599, 062	16, 818, 064	165, 888	169, 372	36,192	65, 226	41,856	32,792
Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	1,108,975 1,336,041 141,224 11,421,127 2,562,987 1,272,644	1,102,578 1,346,545 136,304 10,793,065 2,405,434 1,301,528	1,028,680 1,325,900 91,712 9,637,601 2,371,777 1,279,416	1,091,991 1,333,797 141,224 11,217,487 2,557,787 1,256,776	1,098,142 1,340,753 136,304 10,565,801 2,400,916 1,276,148	161,728	3,976 150,496 14,900	12,608 23,584	4, 436 59, 472 1, 318	4,376 2,244 18,328 5,200 11,708	1,816 17,296 3,200 10,480
MIDDLE ATLANTIC	1,604,885	1,609,884	1,661,932	1,358,208	1,355,159	233, 485	238, 728	7,040	8,532	6,152	7,465
New York New Jersey Pennsylvania	982, 346 402, 263 220, 276	905, 221 443, 938 260, 725	962, 841 420, 784 278, 307	741,738 402,263 214,207	671, 133 443, 938 240, 088	232,976 509	226, 464 12, 264	7,040	7,032 1,500	592 5,560	592 6,873
NORTH CENTRAL	198,560	192,670	215,084	179,745	171,980	18,520	13,682			295	7,008
Ohio Indiana Illinois Michigan Wisconsin Missouri Kansas	3,910 81,256 58,080 22,430 3,725 29,159	240 84, 792 59, 460 13, 682 2, 160 32, 336	124,104 39,240 13,884 2,112 30,744 5,000	3,910 81,256 58,080 3,910 3,725 28,864	240 80, 256 59, 460 2, 160 29, 864	18, 520	13,682			295	4,536 2,472
SOUTH ATLANTIC	12,892,596	11,048,114	8, 959, 297	12,710,820	10,927,646	133, 954	91,428		4,992	48,022	24,048
Delaware Maryland Virginia North Carolina South Carolina Georgia	128,098 569,580 4,728,670 4,965,970 2,500,269	7, 360 120, 530 506, 144 3, 767, 906 4, 568, 712 2, 077, 462	7, 360 133, 302 324, 542 2, 958, 235 3, 760, 891 1, 774, 967	117, 154 560, 280 4, 622, 714 4, 949, 225 2, 461, 247	7, 360 120, 530 499, 144 3, 703, 482 4, 552, 048 2, 045, 082	90,316 5,616 38,022	62,056 5,616			10,944 9,300 15,640 11,138 1,000	7,000 2,368 11,048 3,632
SOUTH CENTRAL	2,029,432	1,767,741	1, 594, 381	1,913,046	1,642,640	68, 544	78,777			47,842	46,324
Kentucky. Tennessee. Alabama Mississippi Arkansas Louisiana Oklahoma Texas.	93,914 370,857 1,155,417 165,450 7,000 99,628 5,712 131,454	93,554 316,154 1,025,580 159,673 7,066 53,766 5,712 106,236	85, 044 247, 530 913, 503 159, 904 17, 114 67, 902 5, 756 97, 628	85,836 329,337 1,108,933 158,802 7,000 91,684	81, 866 281, 994 998, 836 120, 186 7, 066 46, 456	38, 544 18, 408 3, 648 7, 944	31, 644 6, 144 36, 487 4, 502			3,000	11, 688 2, 514 20, 600 3, 000 2, 800 5, 713
All other states	35,000		13,082	35,000							

Looms.—Statistics for the number of power and | 1879 to 1919, inclusive, are presented in Table 13 hand looms in operation during the census years from | according to the type of goods manufactured.

TABLE 13.—LOOMS: 1919, 1914, 1909, 1904, 1899, 1889, AND 1879.

		τ	ISED IN M	ANUFACT	URE OF-				τ	SED IN M	ANUFACT	URE OF-	
CLASS OF LOOM AND CENSUS YEAR.	Total.	Cotton goods.	Silk goods.	Woolen goods.	Worsted goods.	Carpets and rugs.	CLASS OF LOOM AND CENSUS YEAR.	Total.	Cotton goods.	Silk goods.	Woolen goods.	Worsted goods.	Carpets and rugs.
Power: 1919 1914 1909 1904 1899 1889 1879	873, 639 848, 246 825, 418 696, 785 573, 214 412, 441 285, 494	693, 064 677, 920 605, 652 559, 781 455, 752 324, 866 227, 383	96, 438 85, 058 75, 406 59, 775 44, 257 20, 822 5, 321	31, 871 28, 866 33, 148 38, 104 36, 734 38, 523 32, 955	44, 120 46, 581 39, 476 28, 123 26, 630 19, 929 11, 703	8, 146 9, 821 11, 736 11, 002 9, 841 8, 301 8, 132	Hand: 1910. 1914. 1909. 1904. 1899. 1889. 1879.	32 94 248 1,039 1,311 4,823 7,929	(2) (2) (2) (2) (2) (2) (2)	(1) (1) 283 173 1,747 3,153	6	21 14 14 11 36 33 48 81	11 31 207 690 1,055 2,628 3,995

¹ Included with power looms.

2 Not reported.

Establishments and products for textile and related industries, by states.—In addition to the five primary textile industries treated in the foregoing tables, the same are shown together with the related textile industries in Table 14 with respect to statistics pertain-

ing to the total number of establishments and value of products, segregated by industry groups, for states, arranged in the order of their importance by total value of products in 1919.

TABLE 14.—NUMBER OF ESTABLISHMENTS AND VALUE OF PRODUCTS FOR ALL TEXTILE AND RELATED INDUSTRIES, BY STATES: 1919.

		Total.		MAN (cot	COTTON UFACTURES iton goods, on lace, and small wares).	other fe	WOOL UFACTURES ofs and rugs, or than rag; elt goods; s, wool-felt; on goods; and sted goods).	Kni	r goods.	MANU	SILK FACTURES.	TWI	DAGE AND INE, JUTE ODS, AND EN GOODS.	AND	TEXTILE, RELATED JSTRIES.
STATE.	Number of establishments	Value of products.	Rank.	Number of establishments.	Value of products.	Number of establishments.	Value of products.	Number of establishments.	Value of products.	Number of establishments.	Value of products.	Number of establishments.	Value of products.	Number of establishments.	Value of products.
United States	7, 108	\$ 5, 546, 302, 772		1,496	\$2, 195, 565, 881	1,016	\$1, 234, 657, 092	2,050	\$713, 139, 689	1,369	\$688, 469, 523	156	\$174, 807, 220	1, 021	\$539, 663, 367
Massachusetts	662	21,183,282,645 836,420,398 551,849,776 2536,478,330	1 2 3 4 5	====	604, 937, 749 90, 581, 626		2 366, 506, 496 217, 598, 384 108, 214, 464 100, 401, 524	77 606 90	52, 424, 235 188, 260, 800 23, 853, 075	21 373 686 181	34, 193, 951 231, 711, 352 215, 050, 560 81, 682, 572 27, 219, 238	19 27 9 22 5	33, 263, 723 14, 301, 782 17, 442, 320 27, 643, 710 644, 630	105 220 184 197 77	76, 086, 841 42, 992, 918
North Carolina Connecticut South Carolina Georgia New Hampshire	455 243 167 169	2 351, 830, 701 273, 452, 030 2 234, 430, 164 2 207, 946, 905	6 7 8 9	311 57 145 133	318, 368, 181 105, 054, 383 228, 440, 242 2 192, 185, 896 2 86, 391, 695	5 49 1 5	² 53, 814, 059 (3) ² 3, 194, 222	14 28	20, 833, 568 9, 8 32, 77 6 2, 076, 036 12, 566, 787 9, 015, 583	η 1	(8) (8) (8) (8)	7 9 4 2 4	1,932,997 3,236,878 (8) 1,246,306	3	35, 264, 386 677, 008
MaineAlabamaIllinoisOhio	97 73 117	2 121, 207, 624 2 86, 631, 256 2 41, 959, 299 2 62, 321, 506	11 12 13 14	14 58 11 7	79, 643, 343 27, 385, 333 23, 967, 998	1 10	3,588,149 20,802,342	10 58	(³) 4, 757, 008 20, 460, 360 18, 778, 844 32, 952, 349	1	(8) (2) (8)	1 4 4 7 2		30	(a) (
WisconsinVirginiaVermontMarylandMichigan	126 44 35 36	2 51, 797, 469 2 41, 463, 292 2 26, 872, 859 2 24, 568, 885		10 4	1, 269, 504 32, 534, 934 4, 383, 835	27 12 18	2 5, 495, 363 2, 693, 142 17, 425, 823 1, 541, 205 2 4, 571, 704	10	5, 063, 201		<u></u>		(a) (a) (a) (a) (a) (a) (a) (a) (b)	18	(8) 351,009
Minnesota	. 30	2 23, 264, 847 2 20, 788, 354 1 2 2, 778, 910		4	4, 352, 535	12 11 7	2 2, 864, 259 4, 542, 067 2, 778, 916	16 8		1 1	(8)	-	i (³)		2,091,824
California Missouri Kentucky All other states 3	4-1-3	2 8, 561, 533 4 2 10, 331, 203 1 2 11, 020, 85	2 25 2 26 8 27	11 7	(8) (8) 7 24,459,039 26,283,779	10 21	904, 44 3, 247, 06	5		-	(8) 27, 473, 49		2 (8) 3 7,254,71 4 1,843,81 6 50,730,03	0) :	2,528,054 7 2,172,047 8 1,470,949 2 21,809,469

¹ Other textile and related industries embrace: Hats, fur-felt, 176 establishments, \$82, 745, 308 value of products; oilcloth and linoleum, floor, 21, \$52,673,206; oilcloth, enameled, 11, \$15,436,875; wool shoddy, 78, \$23,254,398; dysing and finishing textiles, 628, \$23,907,633; flax and hemp, dressed, 20, \$2,309,114; haircloth, 18, \$3,815,113; mats and relating, 12, \$4,860,855; wool pulling, 24, \$17,361,231; and wool scouring, 33, \$13,679,584.

2 Exclusive of value of products for establishments which can not be shown without disclosure of individual operations (these figures being included in "All other states" in their respective industry groups).

Can not be shown without disclosure of individual operations.

Textile products of the United States itemized according to basic fiber content.—Table 15 gives the name, quantity, and value of the various textile products made in the United States during the year 1919. By a system of cross references to all industries in the United States, the items shown have been gathered and compiled as reported without regard to the type of establishments in which they were made. The products are grouped according to component basic materials-cotton, other vegetable fibers, wool, and silk—and miscellaneous textile products.

The principal use of this table is in striking trade balances with imports and exports, and adjusting the tariff laws, as well as being of general service to the trade and to students of economic conditions. The census of 1919 is the first to present statistics for textiles in this form, therefore comparative figures with other years are not available.

TABLE 15.—QUANTITY AND VALUE OF TEXTILE PRODUCTS OF THE UNITED STATES: 1919.

[Grouped according to component basic materials.]

PRODUCT.	Quai	ntity.	Value.	PRODUCT.	Quantity.	Value.
Grand total			\$5,049,138,447	cotton—continued.		, , , , , , , , , , , , , , , , , , ,
COTTON. Total	Sq. yds.	Pounds.	2, 513, 590, 084	Lace and net goods: Nottingham lace curtainsprs. Nottingham lace curtain netslinear yds.	4, 256, 793	\$9,006,032 8,120,690 755,828
Sheetings. Pillow tubing. Print cloth Tobacco, cheese, butter, bunting, and bandage cloths. Lawns, nainsooks, cambrics, and similar muslins.	1, 368, 946, 386	330, 303, 642 3, 510, 374	220, 089, 704 2, 555, 543	Notingnam lace currain ness innear yes. Bobbinet linear yes. Mosquito netting linear yes. Levers laces	4, 256, 793 20, 381, 962 1, 812, 238 2, 400, 000	755, 828 527, 413
Print cloth. Tobacco, cheese, butter, bunting, and	997, 485, 012	167, 986, 446	122, 558, 328	Levers laces sq. yds. Other narrow laces laces laces yds. Panels and other small pieces number	70, 406, 312	527, 413 6, 952, 166 673, 070 540, 962
Lawns, nainsooks, cambries, and simi- lar muslins	417, 893, 406	23,347,368	17,661,778 79,384,890	Bedspreads number. All other laces and nets linear yds	1, 759, 444 105, 092 39, 738, 111	119, 325 3, 641, 821
		53, 988, 370 782, 790 2, 488, 493 77, 802, 951 74, 276, 050 5, 964, 054 16, 251, 948 117, 627, 118 131, 593, 989 18, 208, 115 87, 088, 323	79, 384, 890 770, 647 2, 502, 729 85, 885, 620 71, 904, 469 12, 779, 237 23, 680, 480 73, 253, 640 101, 096, 691 13, 125, 054 56, 955, 503	Hogiany-	2, 940, 641	10, 896, 610
Shirtings (not silk-striped)	370, 340, 926 322, 063, 939 34, 365, 903 78, 854, 827 314, 822, 109 424, 579, 544 53, 683, 485 166, 697, 695	77, 802, 951 74, 276, 059 5, 964, 054	85, 865, 620 71, 904, 469 12, 779, 237	Hose, full-fashioned doz. prs Hose, seamless doz. prs Half-hose, full-fashioned doz. prs Half-hose, seamless doz. prs	33,894,961 199,077	10, 896, 610 94, 751, 266 640, 624
Mosquito netting (leno woven). Ginghams. Shirtings (not silk-striped). Shirtings (silk-striped). Pique (except shirtings) Drills. Twills, sateens, etc. Ticks. Denims. Cotton flannels (canton flannel, flannelstes, and blanketings). Cottonades. Cotton worsteds Tire duck. Other tire fabrics (including breaker	78, 854, 827 314, 822, 109	16, 251, 948 117, 627, 118	23, 060, 460 73, 253, 640	Half-hose, seamless	23, 625, 593 10, 428, 506	47, 387, 902
Twills, sateens, etc	424, 579, 544 53, 683, 485 166, 697, 695	131,593,989 18,268,115 87,088,323	101, 096, 691 13, 125, 054 56, 955, 509	Underwear— Shirts. dozs. Drawers. dozs. Union suits. dozs. Sweaters, gloves, and other fancy knit goods— Sweaters and sweater coats. dozs. Jerseys. dozs. Gardigan jackets. dozs. Bathing suits. dozs. Athletic suits. dozs. Athletic suits. dozs. Sueded cotton gloves. doz. prs. Knitted gloves and mittens (except sueded). doz. prs. Scarfs and shawls. dozs. Knitted headwear (except infants'). dozs. Neckties. dozs. Anklets and wristlets. dozs. Anklets and wristlets. dozs. Anklets and wristlets. dozs. Anklets and shawls. doz. prs. Linfants' leggings and bootees. doz. prs. Linfants' leggings and bootees. doz. prs. All other fancy knit goods.	4, 227, 457 7, 623, 390	46, 889, 941 25, 674, 692 71, 940, 740
Cotton flannels (canton flannel, flan- nelettes, and blanketings).	268,067,853	82,319,178	60, 152, 426	Sweaters, gloves, and other fancy knit goods— Sweaters and sweater coatsdozs	338, 779	4, 252, 319 317, 257
Cotton worsteds	268, 067, 853 13, 934, 761 7, 417, 063 123, 465, 422	82, 319, 178 6, 234, 880 2, 758, 279 128, 174, 168	60, 152, 426 4, 615, 925 4, 028, 611 143, 080, 211	Cardigan jackets dozs. Bathing suits dozs	31, 909 1, 620 107, 182	48, 100 1, 399, 091
Other tire fabrics (including breaker and corded)	36,805,932			Athletic suitsdozs Athletic shirtsdozs	5,000 39,580	10,000 117,908
other tire labres (mending breaker and corded). Ounce duck (except tire). Numbered duck (except tire). Canvas (except bagging). Bagging, all kinds. Tapestries and other upholstery goods, except pilefabrics, including drapery materials	36, 805, 932 178, 539, 527 34, 655, 411 11, 784, 013 82, 433, 300	29, 916, 856 122, 027, 248 38, 533, 601 11, 867, 754 25, 656, 705	32,601,941 70,601,255 23,526,987 7,497,732 13,139,820	Knitted gloves and mittens (except sueded).	163, 086 133, 968	1,061,856 494.817
Bagging, all kinds. Tapestries and other upholstery goods,	82, 433, 300	25, 656, 705	13, 139, 820	Scarfs and shawls dozs. Knitted headwear (except infants') dozs.	1,600 47,780	494, 817 100, 791 327, 482
except pile fabrics, including drapery materials Pile fabrics:	26, 397, 167	11, 164, 699	20, 118, 702	Anklets and wristlets doz. prs.	37, 198 33, 773 5, 629	179, 142 37, 857 31, 956
Plushes, velvets, velveteens, etc., cut or uncut	21, 443, 796	14, 035, 259 12, 807, 454	24, 082, 910 13, 864, 666	Infants' knitted setsdozs Infants' leggings and booteesdoz. prs	7, 794 3, 000	95, 670 15, 654
Turkish towels and toweling, wash	19, 863, 021	12, 807, 454	13, 864, 666	All other fancy knit goods	10 630 100	2, 676, 544 6, 028, 585
or otherwise. All other torry weaves, in the piece. Towels and toweling, wash cloths, bath mats, wiping and polishing cloths (except pile fabrics). Bedspreads or quilts; crochet, mar- seilles, and satin (loom woven). Cotton tolk domesk, in the piece or	31,511,839 442,443	16, 882, 978 573, 682	14, 108, 779 418, 546	Jersey cloth	8, 889, 507 1, 941, 547	6,028,585 3,288,652 401,438
Towels and toweling, wash cloths, bath mats, wiping and polishing cloths	43, 267, 453	20, 803, 779	·	Astrakhansq. yds Eiderdownsq. yds Sueded cotton eleth	1,530 390,000 165,000	2,040 190,000 380,338
Bedspreads or quilts; crochet, mar- seilles, and satin (loom woven)	24,071,651	12,700,004	16,774,627 10,244,732	Siderdown Sq. yds	597, 341 21, 299, 653 632, 800, 559	709, 469 6, 029, 115
otherwise	27, 499, 294	10, 543, 966	9, 544, 478	Yarns, for sale	632, 800, 559 33, 986, 232 36, 198, 635	463, 709, 601 59, 405, 165 18, 678, 024
Carpets, mats, and rugs of cotton (except bath mats) Belts and belting for machinery, over	268, 511	350, 789	227, 188	Cordage and rope	19, 062, 942	9, 141, 996 5, 629, 537
cept bath mats). Bets and belting for machinery, over 12 inches in width. Sheets and pillowcases.	211, 209 20, 816, 607 96, 680, 556	439, 224 5, 018, 648 42, 384, 171	395, 893 3, 368, 769 32, 736, 082	Open cotton fiber, dyed, bleached, or otherwise treatedlbs.	3,517,900 71,791,820	619, 591
Blankets Cloths, filled or coated: Window hollands	2,347,862	734,816	1,051,706	All other knitted cloth sq. yds. Yarns, for sale. lbs. Sewing thread, for sale. lbs. Twine. lbs. Cordage and rope. lbs. Cotton bags. lbs. Open cotton fiber, dyed, bleached, or otherwise treated. lbs. Batting, wadding, and mattress felts. lbs. Cotton card laps, roping, sliver, and roving. lbs. Other manufactures of cotton waste. lbs. Cotton waste. lbs.	4, 260, 437	9,036,790 1,956,379 1,509,076
Other kinds Cloth composed of cotton and silk, or other vegetable fiber and silk, whether known assilk-striped sleeve	111, 565	99, 169	63, 687	Cotton wasto	315, 675, 594	39, 398, 712 8, 686, 997
whether known assilk-striped sleeve linings, silk stripes, or otherwise (ex-				OTHER VEGETABLE FIBERS. Total		100 515 000
linings, silk stripes, or otherwise (except silk-striped shirtings)	51,428,771	6,695,732	18, 597, 249			182, 515, 880
waste	4, 539, 734 368, 551, 436	3,393,629 103,227,542	1, 422, 451 88, 208, 474	Rope, cable, and cordage: Manila hemp lbs. Henequen lbs. Sisal lbs.	134,999,530 16,327,138	33,029,561 3,110,903
	Linear yds.			All other lbs	28, 551, 626 29, 678, 866 11, 028, 160	5, 165, 263 6, 252, 295 3, 072, 284
Labels, woven figured	948, 604 1, 135, 247, 322		627, 714 16, 664, 616	Binder twine: Manila, all, or chief value oflbs Sisal, all, or chief value oflhs	9, 286, 584	2, 285, 608 38, 803, 930
Trimmings, edgings, etc., not elsewhere specified	52, 376, 884		1,507,714	I All hamp or hamp tow the	197, 050, 557 7, 737, 820 15, 433, 225	38, 803, 930 1, 572, 530 3, 593, 956
Bråids: Flat— Woven	30, 571, 292		248, 909	All other	84, 415	113, 836 3, 864, 311
Knitted Lace braids. Braided lace, braids, and tapes.	28,778,828 7,239,302		665, 965 488, 920	Homp. lbs. Jute. lbs. All other lbs	7, 988, 085 52, 398, 422 7, 759, 961	3, 864, 311 10, 904, 168 2, 652, 893
Braided lace, braids, and tapes. Round braids, including shoe and corset lacings	105, 223, 784 909, 945, 279		1,580,357 15,354,273	Yarns: Ibs.		
All other cotton braids made on braiding machines.	67, 780, 481		1, 556, 794 479, 852	Hemp. lbs. Jute	7, 492 1, 617, 450 56, 407, 631 1, 647, 910	14,608 870,306 11,587,402 538,398
Spindle bandling Wicks and wicking		494, 443 3, 336, 473	479,852 1,883,809		4, 279, 264	6,690,440

TABLE 15.—QUANTITY AND VALUE OF TEXTILE PRODUCTS OF THE UNITED STATES: 1919—Continued.

[Grouped according to component basic materials.]

PRODUCT,		Quantity.	Value.	PRODUCT.	Quantity.	Value.
OTHER VEGETABLE FIBERS—con	inued.			Wool—continued.		
Woven goods: Linen				Hats, wool-felt: Wool-felt hatsdozs. Wool-felt hat bodies and hats in the rough. dozs.	403, 893 104, 144	\$5, 485, 909 165, 469
Towels and toweling	sq. yds	8, 219, 808 5, 747, 389	\$1,834,098	Yarns: Woolen lbs Worsted lbs	1 1	
All linen		5,747,389 374,523	1,204,366 760,510	Worstedlbs. Merino-	20, 483, 410 74, 442, 528	34, 445, 278 185, 312, 12
Jute: Carpets and rugs. Carpets and rugs. Bagging for balling cotton Burlap bags and bagging. Other bags and bagging. Burlap (except bagging). Webbing (12 inches wide and le All other.	sq. yds	2,391,596 40,611,738 9,985,150	1, 646, 502 6, 634, 103	Merino— Woolen	9,512,891 4,217,801 1,505,768	7, 094, 611 9, 328, 76 2, 938, 24
Burkap bags and bagging. Other bags and bagging.	sq. yds	9,985,150 34,695,629	1,825,436 4,718,908	Wool card rolls	4,333 642,344	912, 81
Burlap (except bagging)	ss)yds	34,695,629 1,292,013 25,417,400	252, 221 1, 053, 170	Worsted tops and slubbinglbs. Mohair topslbs.	9, 903, 428	14, 509, 13 247, 21
Artificatelle		3, 135, 752	1, 621, 504	W 001 noits 108. Mohair noils 1bs. All other wastes 1bs.	22, 809, 442 1, 551, 769 34, 124, 290 61, 080, 705	17, 299, 04 586, 80 8, 900, 06
Hoslery. Cloth. Sweaters, scarfs, neckties, and knit goods. Yarn.	doz. prs	1,587,149 3,288,410	6,644,346 11,895,879	All other wastes lbs. Recovered wool fiber lbs. Carbonized rags lbs. All other partially manufactured products. lbs.	61, 080, 705 249, 514	21, 871, 87 31, 70
Sweaters, searfs, neakties, and knit goods	other fancy		1, 449, 145 5, 423, 242	Enit goods:	5,074,209	4, 473, 83
All other products of "other vegetable i	J	829, 083	5, 423, 242 1, 429, 758	Hosiery— All-wool— Hose full-fashioned	26, 974	219, 19
TATA OFFICE PROCEEDING OF THE PROCESSING I	111019		1,120,100	Hose, full-fashioned doz. prs. Hose, seamless doz. prs. Half-hose, full-fashioned doz. prs. Half-hose, seamless doz. prs.	. 26, 974 368, 294 39, 053	219, 19 1, 920, 76 260, 95
PRODUCT.	Quan	ntity.	Value.			2, 995, 95
WOOI.				Hose, full-fashioned doz. prs. Hose, seamless doz. prs. Half-hose, full-fashioned doz. prs. Half-hose, seamless doz. prs.	31, 396 997, 975 49, 006 3, 115, 001	252, 86 4, 203, 56 225, 74
Total			\$1,387,180,259	I Underwear-	. 3, 115, 001	10, 315, 91
All-wool woven goods: Suitings, overcoatings, and dress				All-wool— dozs.	182, 515 133, 127	1,715,95 1,339,56
goods— Woolens Worstods	Sq. yds. 140, 102, 111 176, 730, 716	Pounds. 117,718,588 86,092,953	244, 616, 107 314, 076, 576	Shirts dozs	80, 671 245	2, 106, 23 9, 42
Pleasunia for unclevatore	1 7723 950 1	825, 886 5, 134, 019	1,860,585	Merino-	1 200 020	ł
Hamkets. Horse blankets. Carriage cloths. Shawls.	387, 926 687, 241	216,024 587,041	1,371,356	Snirts	1, 260, 839 588, 021 1, 133, 750 14, 953	11, 907, 68 7, 714, 27 21, 415, 61 200, 45
Shawis. All other Cotton-warp woven goods: Suitings, overcoatings, and dress	868, 971 1, 294, 601	590, 667 802, 607	854,041 3,929,659	Sweaters, gloves, and fancy knit goods— All-wool—		
Suitings, overcoatings, and dress goods—		4		All-wool— Sweaters	743, 910 100, 092	26, 036, 38 1, 350, 27 161, 31
Wool-filling. Worsted-filling.	39, 168, 569 57, 924, 287	23,797,643 21,310,561	34,764,570 45,364,581	Cardigan Jackets	4, 215 127, 443 798	3, 574, 25 20, 07 212, 79
Domeit flaunels and shirtings Linings, Italian cloths, and lastings.	22, 224, 427 824, 287 4, 637, 678	11,780,896 675,182 5,863,838	11,601,477 571,250 3,517,427	Athletic shirts	11, 294 239, 984	1 235 14
goods— Wool-filling. Worsted-filling. Domett flaunuls and shirtings. Linings, Italian cloths, and lastings. Satinets and linseys. Horse blankets. Carriage robes. All other. Union or cotton-mixed woven goods: Suitings, overcoatings, and dress goods.	9, 244, 134 1, 307, 789 743, 570	7,603,761 1,448,015	7,289,253 957,427	Scarfs and shawlsdozs. Knitted headweardozs.	74, 705 115, 789 76, 714 788	1, 103, 85 1, 150, 88 496, 46 5, 82
Carriage robes	743, 570 25, 502, 548	1,055,935 6,009,682	1,046,525 13,116,305	Neckties	788 14,631	144, 12
Suitings, overcoatings, and dress	94 615 373	19 497, 282	26,045,387	Puttees doz, prs- Leggings doz, prs-	200 1,876	3, 48 40, 58
Flannels for underwear	6, 498, 138	19, 497, 282 2, 610, 517 8, 273, 962	5,205,380 9,626,830	Infants' knitted sets(lozs. Infants' leggings and booteesdoz. prs.	69,091 51,819 2,069	385, 41 477, 41 86, 3
Blankots. Carriago robes. All other	553, 869 6, 186, 786	699,016 11,438,949	861, 820 8, 369, 132	Carriage robesdozs. All other fancy knit goods Merino-		86, 3 3, 122, 3
Carriago robes. All other Woolen, worsted, and mohair upholstery goods Press cloth.	7, 162, 662 4, 444, 005	3,699,450 5,213,668	9,356,359 4,414,999	I Gerrantana doze	. 728, 802 41, 572	20, 639, 37 1, 003, 2 326, 53
Armineter and modulatte	14,700,394	36,667,823	35,503,778	Jerseys dozs. Cardigan jackets dozs. Bathing suits dozs. Athletic suits dozs	11,827 77,269 26,511	1, 887, 60
		16, 464, 515 2, 399, 118 22, 443, 519 20, 205, 086	23,461,960 2,233,053 20,625,610	Knitted gloves and mittensdoz, prs.	726, 280	400, 70 2, 823, 27 912, 11
Wilton Brussels Tapestry volvet. Tapestry Brussels. Ingrati carpets Ingrati rat squares. Smyrna rugs. Other carpets and rugs.	9,996,099 1,199,714	1 1 357 793	2, 233, 053 20, 625, 610 13, 120, 096 1, 055, 242 714, 648	Saarfe and shawls	32, 198	912, 11 2, 125, 17 67, 2
Ingrain art squares	1, 199, 714 820, 911 807, 741	976,122 2,658,390 14,914,552	714,648 1,914,201	Knitted headwear dozs. Anklets and wristlets doz. prs. Athletic and golf hose doz. prs. Puttees doz. prs.		185, 89 10, 84
		14,914,552 3,397,378	11,527,479 8,785,169	Leggings	2,758 4,462	21, 90 190, 44
Felt cloths. Trimming and lining felts, felt		4 315 550		Infants' leggings and booteesdoz. prs. Carriage robesdozs. All other fancy knit goods	103, 650	342, 40 4, 00 2, 286, 78
Polishing folts and buffing wheels.	2, 185, 465 446, 711	1, 132, 598 849, 413 812, 508	1,307,123 2,230,940	Knitted cloth—		
Saddle felts		1 250,000	478,280	Jerseyssq. yds.	. 8,048	12, 073, 68 9, 82 600, 00
Boot and shoo linings Hair felting. All other felts.	7 222 741	3, 088, 168 6, 658, 787	2,249,653 16,451,909	Eiderdown	_ 000,000	1,077,14

TABLE 15.—QUANTITY AND VALUE OF TEXTILE PRODUCTS OF THE UNITED STATES: 1919—Continued.

[Grouped according to component basic materials.]

PRODUCT.	Quantity.	Value.	PRODUCT.	Quantity.	Value.
WOOL-continued.			silk—continued.		
Init goods—Continued. Knitted cloth—Continued.			Silk yarns and threads—Continued.		
Merino-	0.0.000	arno -	Machine twist, sewing silks, embroidery silks, and fringe and floss silks	1,327,172	\$18, 234, 47
Jersey	242,390 1,163,828	\$539, 762 436, 565	Noils exceeding 2 inches in lengthlbs. Other waste silk, including noils 2 inches or less in	916, 657	\$18, 234, 47 687, 34
Fleece lining (shoe and glove)sq. yds	4,572,778 25,238	2, 053, 073 39, 563	length (exhausted noils)	1,817,558	1,098,77
Fleece lining (shoe and glove)sq. yds. Astrakhansq. yds. Eiderdownsq. yds. All other knitted clothsq. yds.	195, 934 633, 933	384, 592 708, 008	Knit goods: All-silk—		
11 the second control of the second control	000,000		Hoslery doz. prs. Fancy knit goods. Knitted cloth sq. yds.	2,929,379	28, 451, 33 11, 952, 88
.ll other wool products		10, 277, 002	Knitted clothsq. yds All other	5,942,125	11, 952, 88 10, 548, 70 4, 187, 19
SLK.		015 005 104	Silk-mixed— Hosiery—doz. prs.		
		815, 885, 164	Fancy knit goods	14, 275, 459	99, 674, 21 15, 546, 96
Broad silks: All-silk goods			Knitted clothsq. yds All other	822, 884	2, 471, 47 11, 093, 02
In the gray yds. Plece-dyed and printed yds.	. 86,919,172 73,047,345	101, 976, 095 101, 380, 505	Other manufactures of silk		9, 357, 97
Yarn-dyed, including warp-printedyds.	. 85.894.401.	119, 146, 165	MISCELLANEOUS TEXTILE PRODUCTS.		
Mixed goods— In the gray. yds. Piece-dyed and printed. yds. Yarn-dyed, including warp-printed .yds. Velvets. yds.	41,869,419 10,181,640	35, 722, 740 13, 849, 095	Total		149, 967, 00
Yarn-dyed, including warp-printedyds.	12, 220, 083	19, 661, 302	Oilcloth and linoleum:		
elvetsyds Plushesyds.	16, 150, 689 5, 860, 527	20, 950, 239 21, 601, 280 2, 156, 617	Olicioth (made on cotton back)— Enameledsq. yds	8, 460, 738	3, 421, 18 12, 529, 91
Hydris yds. Jushes yds. Juholsteries and tapestries. yds. Libbons. yds. Aces, nets, veilings, etc. Embrolderies.	516, 281	2, 156, 617 66, 186, 609	Cilcloth, and linelaum (made on jute back)	39, 132, 641	12, 529, 91
aces, nets, veilings, etc		5, 825, 359 127, 522	Linoleum, including cork carpetsq. yds Inlaid linoleumsq. yds	22, 098, 136	17, 120, 65
TIMPES AND PINNS	1	3 O26 560 T	Floor covering (made on felt back)sq. vds	9, 834, 332 31, 596, 477	10, 336, 36 14, 274, 56
Graids and bindings. Callors' trimmings		13, 218, 284 634, 058	Artificial leather— Pyroxylin-coated textilessq. yds All othersq. yds	3,332,085	3,922,56
Military trimmings		682, 909	All other	12, 400, 416	7,353,71 1,606,53
Silk yarns and threads: Organzine	3 811 901	9, 122, 457 31, 494, 535	Under firm folds	!	
Hard or crepe twists	1,070,845	12, 011, 137 23, 807, 338	Fur-felt hatsdozs Fur-felt hat bodies and hats in the roughdozs	518, 581	71,743,02 7,658,52

COTTON MANUFACTURES.

By ARTHUR J. LECK.

GENERAL STATISTICS.

General character of the industry.—This report presents statistics for three classes of mills: (1) Those producing "Cotton goods," which includes mills engaged in spinning, in the weaving of piece goods, or any of the preliminary processes preparatory to spinning; (2) those producing "Cotton small wares," which includes mills engaged in the weaving of tape, webbing, figured labels, banding, belts, belting, trimmings, and edgings, or the making of flat and round braids, which includes shoe and corset laces (some of the mills producing their own yarns); and (3) those engaged in the manufacture of machine-made "Cotton lace goods."

Cotton manufactures rank as the most important branch of the textile industry. In 1919 the value of cotton manufactures amounted to over two billion dollars, or nearly 40 per cent of the total value of products for all kinds of textiles combined.

Comparative summary.—The development of the industry from 1899 to 1919 is shown in Table 1. The relative importance of the three branches of the industry is brought out in this table, showing that the manufacture of cotton goods is the preeminent feature, and that, while the manufacture of cotton small wares and of cotton lace are important industries, they form a comparatively small portion of the total.

Principal states, ranked by value of products.—Table 2 presents statistics, by states, for the industry in 1919. Massachusetts is the most important cotton-manufacturing state in the Union and has held this position for over 80 years. In 1919 more than one-half of the total value of products for the industry was reported by three states—Massachusetts and the Carolinas.

Persons engaged in the industry.—Comparative statistics for the number of persons engaged in the industry are shown in Table 3 for 1919, 1914, and 1909. This table has been extended to show similar figures for each branch of the industry for 1919 and 1914.

Wage earners, by months, for states.—Table 4 shows that the cotton-manufactures industry is not a seasonal one, but is very regular, employing approximately the same number of wage earners each month throughout the year. The majority of the states as well as the United States conform to this regularity.

Average number of wage earners, with per cent, by sex and age, for selected states.—Statistics are presented, by states, in Table 5 with respect to the average num-

ber of wage earners, male and female, according to age, employed in the industry for 1919, 1914, and 1909. The most prominent departure from the condition which existed in the industry prior to the census of 1919 is the reduction of child labor in the cotton-growing states.

Prevailing hours of labor.—The distribution of the average number of wage earners, according to the prevailing hours of labor, and by selected states, is shown in Table 6 for 1919 and 1914. The mills in the New England states operated chiefly on a 48-hour basis, while the mills in the cotton-growing states operated largely between 54 and 60 hours per week. The general tendency of the industry for the United States is toward shorter hours.

Size of establishments, by average number of wage earners, by states.—The distribution, by states, according to size of establishments based on the average number of wage earners is shown in Table 7.

Size of establishments, by value of products.—Table 8 presents statistics relating to the size of establishments according to the value of products for 1919, 1914, and 1909. At the censuses of 1909 and 1914 establishments with products valued at "\$100,000 to \$1.000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns of 1914. The table, therefore, gives combined figures for these two groups in the case of all items for 1909, and in the case of average number of wage earners and value added by manufacture for 1914. This table shows that, in 1919, 83 per cent of the total value of products for the industry was confined to establishments whose products amounted to over \$1,000,000 each.

Character of ownership, by states.—The corporate form of ownership prevails almost entirely in this industry as will be seen from the figures presented in Table 9.

Number and horsepower of types of prime movers.— The various types of power used in 1919, 1914, and 1909 are shown in Table 10 for the industry as a whole.

Fuel consumed, by states.—Table 11 relates to the quantity and kinds of fuel used in 1919 as compared with 1914 for the industry as a whole for the United States and for the various states.

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

						PE	R CENT O	F INCREAS	E.1
	1919	1914	1909	1904	1899	1914- 1919	1909- 1914	1904~ 1909	1899~ 1904
Cotton Manufactures.									
Number of establishments	1 '	1,328	1,324	1, 154	1,055	12.7	0.3	14.7	9.4
Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number).	462, 873 346 15, 675 446, 852	403, 911 489 10, 018 393, 404	387, 771 377 8, 514 378, 880	323, 287 432 6, 981 315, 874	308, 237 474 4, 902 302, 861	14.6 -29.2 56.5 13.6	4. 2 29. 7 17. 7 3. 8	19, 9 -12, 7 22, 0 19, 9	4.9 -8.9 42.4 4.3
Primary horsepower	1,863,542 \$1,914,919,506	1, 585, 953 \$899, 764, 682	1, 296, 517 \$822, 237, 529	986, 604 \$613, 110, 655	795, 834 \$467, 240, 157	17. 5 112. 8	22, 3 9, 4	31, 4 34, 1	24, 0 31, 2
Salaries and wages	410, 487, 673 41, 763, 961 368, 723, 712	169, 822, 599 17, 400, 000 152, 422, 599	147, 270, 903 14, 411, 758 132, 859, 145	106, 443, 687 10, 237, 891 96, 205, 796	94, 039, 951 7, 350, 199 86, 689, 752	141.7 140.0 141.9	15. 3 20. 7 14. 7	38, 4 40, 8 38, 1	13, 2 39, 3 11, 0
Paid for contract work Rent and taxes Cost of materials Value of products Value added by manufacture 3	l 1, 314, 901, 542	1, 614, 036 8, 409, 837 443, 522, 515 701, 300, 933 257, 778, 418	2, 157, 069 6, 196, 492 371, 009, 470 628, 391, 813 257, 382, 343	528, 826 2 4, 898, 973 286, 255, 303 450, 467, 704 164, 212, 401	1, 702, 393 2 4, 290, 155 176, 551, 527 339, 200, 320 162, 648, 793	157. 8 1, 364. 3 196. 5 213. 1 241. 6	-25. 1 35. 7 19. 5 11. 0 0. 2	307. 9 26. 5 29. 6 39. 5 56. 7	-68.9 14.2 62.1 32.8 1.0
COTTON GOODS. Number of establishments	1,288	1,179	1,208	1,077	973	9.2	-2, 4	12, 2	10, 7
Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number).	445, 423 239 14, 218 430, 966	388, 726 409 8, 951 379, 366	379, 538 303 8, 053 371, 182	317, 563 367 6, 738 310, 458	303, 031 389 4, 713 297, 929	14.6 -41.6 58.8 13.6	2, 4 35, 0 11, 2 2, 2	19. 5 -17. 4 19. 5 19. 6	4.8 -5.7 43.0 4.2
Primary horsepower	1,840,201 \$1,853,099,816	1,566,757 \$867,043,678	1,286,105 \$808,412,757	979, 109 \$605, 100, 164	789, 858 \$ 460, 842, 772	17. 5 113. 7	21.8 7.3	31. 4 33. 6	$\frac{24.0}{31.3}$
Salaries and wages Salaries Wages	392, 839, 415 37, 304, 478 355, 474, 937	161, 679, 759 15, 550, 131 146, 129, 628	143, 504, 935 13, 715, 218 129, 789, 717	104, 289, 463 9, 911, 767 94, 377, 696	92, 249, 884 7, 123, 574 85, 126, 310	143, 0 140, 3 143, 3	12. 7 13. 4 12. 6	37. 6 38. 4 37. 5	13. 1 39. 1 10. 9
Paid for contract work Rent and taxes Cost of materials Value of products Value added by manufacture 3	3, 693, 742 120, 298, 126 1, 277, 785, 597 2, 125, 272, 193 847, 480, 596	1, 483, 770 8, 096, 029 431, 602, 540 676, 569, 115 244, 966, 575	2, 058, 644 6, 033, 654 364, 013, 504 615, 217, 702 251, 204, 198	450, 817 ² 4, 801, 109 282, 047, 648 442, 451, 218 160, 403, 570	1, 592, 954 2 4, 212, 681 173, 441, 390 332, 806, 156 159, 364, 766	148. 9 1, 385. 9 196. 1 214. 1 246. 0	-27.9 34.2 18.6 10.0 -2.5	356, 6 29, 1 39, 0 56, 6	-71.7 62.6 32.9 0.7
COTTON SMALL WARES.									
Number of establishments.	164	108	116	77	82	51.9	6.9		
Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number).	10, 254 99 759 9, 396	7,062 70 394 6,598	8, 233 74 461 7, 698	5, 724 65 243 5, 416	5, 206 85 189 4, 932	45, 2 92, 6 42, 4	-14. 2 -14. 5 -14. 3	43. 8 89. 7 42. 1	28.6 9.8
Primary horsepower. Capital.	14, 263 \$29, 559, 474	10,100 \$11,764,495	10, 412 \$13, 824, 772	7, 495 \$8, 010, 491	5, 976 \$6, 397, 385	41, 2 151, 3	-3.0 -14.9	38. 9 72. 6	25. 4 25. 2
Salaries and wages Salaries. Wages	9, 537, 260 2, 375, 042 7, 162, 218	3, 463, 783 638, 893 2, 824, 890	3, 765, 968 696, 540 3, 069, 428	2, 154, 224 326, 124 1, 828, 100	1,790,067 226,625 1,503,442	175, 3 271, 7 153, 5	-8.0 -8.3 -8.0	74. 8 113. 6 67. 9	20.3 43.9 16.9
Paid for contract work. Rent and taxes. Cost of materials. Value of products. Value added by manufacture 3 COTTON LACE.	211, 028 1, 553, 608 24, 039, 951 40, 896, 835 16, 856, 884	82, 970 195, 401 6, 243, 027 11, 525, 033 5, 282, 006	98, 425 162, 838 6, 995, 966 13, 174, 111 6, 178, 145	78, 009 2 97, 864 4, 207, 655 8, 016, 486 3, 808, 831	109, 439 277, 474 3, 110, 137 6, 394, 164 3, 284, 027	154. 3 695. 1 285. 1 254. 9 219. 1	-15.7 20.0 -10.8 -12.5 -14.5	26. 2 66. 3 64. 3 62. 2	-28.7 35.3 25.4 16.0
Number of establishments.	44	41	(4)	(4)	(4)		(1)	. (1)	(4)
Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number).	7, 196 8 698 6, 490	8,123 10 673 7,440	(4) (4) (4) (4)	(4) (4) (4)	* 9333 *********************************	-11.4 3.7 -12,8	(*) (*) (*)	(4) (4) (4) (4) (4)	⊕
Primary horsepower	9, 078 \$32, 260, 216	9,096 \$20,956,509	(4) (4)	(9)	(4)	-0.2 53.9	(3)	(3)	(4) (4)
Salaries and wages Salaries Wages	8, 110, 998 2, 024, 441 6, 086, 557	4, 679, 057 1, 210, 976 3, 468, 081	(3)	(4) (4) (4)	(4) (4)	73. 3 67. 2 75. 5		(4) (4) (4)	£ 555
Paid for contract work. Rent and taxes. Cost of materials. Value of products. Value added by manufacture 3	258, 051 1, 296, 375 13, 075, 994 29, 396, 853 16, 320, 859	47, 896 118, 407 5, 676, 948 13, 206, 785 7, 529, 837	9999	(4) (4) (4) (4) (4)	33333	438. 8 994. 8 130. 3 122. 6 116. 7	95555	93333	93333

 $^{^1}$ A minus sign (—) denotes decrease; percentages are omitted where base is less than 100. $^1\mathrm{Exclusive}$ of internal revenue.

<sup>Value of products less cost of materials.
Figures not available.</sup>

TABLE 2.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

	r of aents.		AGE NERS.			JE OF UCTS.		ADD MAI	ALUE DED BY NUFAC- URE.			r of aents.		GE NERS,			E OF UCTS,		MAN ADD	LUE ED BY UFAC- RE.	
STATE.	Number of establishments.	Average number.	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	STATE.	Number of establishments.	Average number.	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.
United States. Massachusetts. North Carolina. South Carolina. Georgia 1. Rhode Island. Connecticut. Pennsylvania. New Hampshire 1. Alabama. New Jersey. Maine. New York.	231 311 145 132 132 57 168 21	446, 852 124, 150 67, 297 48, 079 38, 283 36, 336 16, 483 15, 379 21, 294 18, 102 9, 672 11, 763 10, 493	27.8 15.1 10.8 8.6 8.1 3.7 3.4 4.8	1 2 3 4 5 8 9 6 7 12 10	\$2,105,566 604,038 318,368 228,440 192,186 177,423 105,054 90,582 86,392 79,643 60,475 56,504 55,287	27.6 14.5 10.4 8.8 8.1 4.8 4.1 3.9 3.6 2.8 2.6		\$880,604 240,017 131,589 91,357 68,747 77,275 39,255 39,656 39,148 28,304 19,043 27,139 23,976	100.0 27.3 14.9 10.4 7.8 8.8 4.5 4.5 4.4 8.2 2.2 3.1 2.7	1 2 3 5 4 7 6 8 9 12 10	Virginia Tennessee. Maryland ¹ Texas Illinois ¹ Mississippi Kentucky ¹ Vermont Indiana Wisconsin. All other states	10 16 14 15 10 15 6 4 4 6 24	6, 518 4, 895 3, 416 2, 633 1, 538 2, 406 967 1, 092 997 171 4, 888	0.2	13 14 15 16 18 17 23 21 22 26	\$32,535 22,461 18,455 13,920 7,385 8,067 4,459 4,384 4,353 1,209 22,926	0.3 0.4 0.2 0.2	13 14 15 16 17 18 22 23 24 26	\$14, 991 8, 165 7, 027 4, 605 2, 348 3, 093 1, 534 2, 257 1, 863 385 8, 893	1.7 0.9 0.8 0.5 0.3 0.4 0.2 0.3 0.2 (a)	18 14 15 16 18 17 24 21 22 26

 ¹ Excludes statistics for 1 establishment to avoid disclosure of individual operations. These are included in "All other states."
 2 Excludes statistics for 2 establishments to avoid disclosure of individual operations. These are included in "All other states."
 8 Less than one-tenth of 1 per cent.

TABLE 3.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

. •	ADII			- HI(GI	IGED	77/ 7	HE INDUSTRY: 1919, 191	, 111		· ·		11	
AND HOME A AND OF LOC	Cen-	Total.	Male.	Fe-		CENT OTAL.	INDUSTRY AND CLASS.	Cen-	Total,	Male.	Fe-		OENT DTAL.
INDUSTRY AND CLASS.	year.	Total.	Maio.	male.	Male.	Fe- male.	INDUSTRY AND GLASS.	year.	Total,	MEG.	male.	Male.	Fo- male
COTTON MANUFACTURES	1919 1914 1909	462, 873 403, 911 387, 771	268, 662 237, 926 221, 299	194, 211 165, 985 166, 472	58.0 58.9 57.1	42.0 41.1 42.9	COTTON SMALL WARES	1919 1914	10, 254 7, 062	4, 049 2, 906	6, 205 4, 156	39. 5 41. 1	60, 58,
Proprietors and officials	1919 1914 1909 1919	7,738 5,053 4,461 346	7,593 4,993 4,410 321	140 60 51 25	98. 2 98. 8 98. 9 92. 8	1.8 1.2 1.1 7.2	Proprietors and officials Proprietors and firm members Salaried officers of corporations.	1919 1914 1919 1914 1919	467 238 99 70 179	446 230 94 69 173	21 8 5 1	95. 5 96. 6 96. 6	3.
Salaried officers of corporations.	1914	489 377 2,694 1,914 1,726	469 355 2,656 1,900	25 20 22 38 14	95. 9 94. 2 98. 6 99. 3	4, 1 5, 8 1, 4 0, 7	Superintendents and managers.	1914	88 189 80	82 179 79	10 10	94.7	5.
Superintendents and managers.	1909 1919 1914 1909	1,726 4,693 2,650 2,358	1,715 4,616 2,624 2,340	11 77 26 18	99. 4 98. 4 99. 0 99. 2	0.6 1.6 1.0 0.8	Clerks and other subordinate sal- aried employees. Wage earners (average number)	1919 1914 1919 1914	391 226 9, 396 6, 598	160 129 3, 443 2, 547	231 97 5,953 4,051	40.9 57.1 36.6 38.6	59. 42. 63.
Clerks and other subordinate salaried employees.	1919 1914 1909	8, 288 5, 454 4, 430	4,783 4,062 3,413	3,505 1,392 1,017	57.7 74.5 77.0	42, 3 25, 5 23, 0	16 years of age and over Under 16 years of age	1919 1914 1919 1914	8, 879 6, 198 517 400	3, 295 2, 436 148 111	5, 584 3, 762 369 289	37. 1 39. 3 28. 6 27. 8	62. 60. 71. 72.
Wage earners (average number) 16 years of age and over	1919 1914 1909 1919	446, 852 393, 404 378, 880 425, 271	256, 286 228, 871 213, 476 245, 688	190, 566 164, 533 165, 404 179, 583	57. 4 58. 2 56. 3 57. 8	42. 6 41. 8 43. 7 42. 2	COTTON LACE	1919 1914	7, 196 8, 123	3, 605 3, 911	3, 591 4, 212	50. 1 48. 1	49. 9 51. 9
Under 16 years of age	1914 1909 1919 1914 1909	360, 360 339, 574 21, 581 33, 044 39, 306	210, 048 192, 930 10, 598 18, 823 20, 546	150, 312 146, 644 10, 983 14, 221 18, 760	58.3 56.8 49.1 57.0 52.3	41.7 43.2 50.9 43.0 47.7	Proprietors and officials	1919 1914 1919 1914	235 172 8 10	219 157 8 10	16 15	93. 2 91. 3	6. 8 8. 7
COTTON GOODS	1919 1914	445, 423 388, 726	261, 008 231, 109	184, 415 157, 617	58. 6 59. 5	41, 4	Salaried officers of corporations. Superintendents and managers.	1919 1914 1919 1914	62 54 165 108	61 54 150 93	1 15 15	90. 9 86. 1	9. 1 13, 9
Proprietors and officials	1919 1914 1919	7, 031 4, 643 239	6, 928 4, 606 219	103 37 20 19 31	98. 5 99. 2 91. 6	1.5 0.8 8.4	Clerks and other subordinate salarled employees. Wage earners (average number)	1919 1914 1919	471 511	292	179 131	62. 0 74. 4	38. (25. 6
Salaried officers of corporations. Superintendents and managers.	1914 1919 1914 1919 1914	409 2, 453 1, 772 4, 339 2, 462	390 2, 422 1, 764 4, 287 2, 452	31 8 52 10	95. 4 98. 7 99. 5 98. 8 99. 6	4.6 1.3 0.5 1.2 0.4	16 years of age and over Under 16 years of age	1914 1919 1914 1919	6, 490 7, 440 5, 995 7, 086 495	3, 094 3, 374 2, 884 3, 237 210	3,396 4,066 3,111 3,849 285	47. 7 45. 3 48. 1 45. 7 42, 4	52. 3 54. 7 51. 9 54. 3 57. 6 61. 3
Clerks and other subordinate salaried employees.	1919 1914	7,426 4,717	4,331 3,553	3,095 1,164	58.3 75.3	41.7 24.7		1914	354	137	217	42, 4 38, 7	61. 3
Wage earners (average number) 16 years of age and over Under 16 years of age	1919 1914 1919 1914 1919 1914	430, 966 379, 366 410, 397 347, 076 20, 569 32, 290	249, 749 222, 950 239, 509 204, 375 10, 240 18, 575	181, 217 156, 416 170, 888 142, 701 10, 329 13, 715	58. 0 58. 8 58. 4 58. 9 49. 8 57. 5	42.0 41.2 41.6 41.1 50.2 42.5							

TABLE 4.—WAGE EARNERS, BY MONTHS: 1919.

[The month of maximum employment for each industry and state is indicated by bold-faced figures and that of minimum employment by italic figures.]

	Aver-		NUMB	ER EMPL	YED ON	15TH DAY	OF THE	O HTNOM	R NEARES	T REPRES	ENTATIVE	DAY.		Por
STATE.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August.	Septem- ber.	Octo- ber.	Novem- ber.	Decem- ber.	mini- mum is of maxi- mum.
United States: Cotton manufactures, 1919. Males. Females.	446, 852 256, 286 190, 566	448, 214 255, 677 192, 537	432,640 247,794 184,846	430,546 246,842 183,704	429,551 246,067 183,484	438, 253 251, 380 186, 873	444, 813 254, 678 190, 135	450, 512 258, 511 192, 001	452,739 260,581 192,158	453, 868 260, 913 192, 955	455,500 261,706 193,794	459, 179 263, 591 195, 588	466, 400 267, 692 198, 717	92. 3 91. 9 92. 3
Cotton goods	181, 217 9, 396 3, 443	432,978 249,452 183,526 9,295 3,399 5,896 5,941 2,826 8,115	417,786 241,750 176,036 8,879 3,211 5,668 5,975 2,833 3,142	415,600 240,757 174,843 8,943 3,239 5,704 6,003 2,846 3,157	414,718 240,037 174,681 8,872 3,232 5,640 5,961 2,798 3,163	423, 295 245, 279 178, 016 8, 884 3, 201 5, 683 6, 074 2, 900 3, 174	429, 213 248, 326 180, 887 9, 180 3, 288 5, 892 6, 420 3, 064 3, 356	434, 345 251, 867 182, 478 9, 634 3, 535 6, 099 6, 533 3, 109 3, 424	436, 312 253, 787 182, 525 9, 646 3, 567 6, 079 6, 781 3, 227 3, 554	437, 375 254, 059 183, 316 9, 622 3, 550 6, 072 6, 871 3, 304 3, 567	438,711 254,741 183,970 9,774 3,630 6,144 7,015 3,335 3,680	442, 252 256, 561 185, 691 9, 921 3, 680 6, 241 7, 006 3, 350 3, 656	449,007 260,372 188,635 10,102 3,784 6,318 7,300 3,536 3,764	92, 4 92, 2 92, 6 87, 8 84, 6 89, 3 81, 4 79, 1 82, 8
Cotton manufactures, 1914	393, 404	404, 647	403,388	402,490	401, 840	398, 914	393,913	389, 239	382,702	382, 898	385,364	387,117	388, 336	94. 6
1909	378, 880	874, 488	376,348	877,962	377, 521	377, 487	377,862	378, 700	378,920	380, 363	381,225	382,232	383, 52 9	97. 6
Alabama.	18, 102	17,747	18,011	17,579	17,481	17,835	17,927	17,971	18,744	18,457	18, 562	18,870	18,090	92, 4
Connecticut	16, 483	16,022	16,017	16,346	15,935	10,167	16,323	16,780	16,514	16,649	16, 887	16,936	17,220	92, 5
Georgia ¹	38, 283	40,041	37,273	36,536	86,260	37,111	37,464	37,958	38,772	38,634	39, 223	39,508	40,616	89, 3
Illinois ¹	1, 538	1,399	1,369	1,442	1,454	1,494	1,533	1,591	1,625	1,624	1, 615	1,605	1,715	79, 2
Indiana	997	950	1,027	1,044	1,014	994	981	971	997	978	995	1,012	1,001	91, 0
Kentucky ¹ .	967	1,181	1,196	1,201	1,206	1,153	1,211	608	623	627	952	624	1,022	50. 2
Maine.	11,763	13,106	7,644	6,661	7,444	12,785	13,079	13,291	13,311	13,427	13,402	13,495	18,511	49. 3
Maryland ¹ .	3,416	3,579	3,621	3,449	3,363	3,332	3,810	3,379	3,388	3,408	3,370	3,357	3,436	91. 4
Massachusetts.	124,150	124,242	120,227	120,135	119,715	121,538	124,541	126,083	125,517	126,887	124,970	127,247	128,698	93. 0
Mississippi	L I	2,540	2,498	2,427	2,370	2,428	2,308	2,332	2,297	2,343	2,405	2,449	2,475	90, 4
New Hampshire ²		20,587	20,765	20,866	20,931	20,772	21,270	21,690	21,883	21,876	21,778	21,441	21,719	93, 8
New Jersey		9,519	8,792	9,083	9,508	9,694	9,808	9,732	9,927	9,927	9,910	9,941	10,223	86, 0
New York		10,922	10,330	10,038	10,244	10,368	10,580	11,036	11,214	9,727	10,177	9,839	11,441	85, 0
North Carolina	67,297	67,953	67,675	66,782	66, 699	65,626	66,043	67, 233	66, 497	66, 563	68, 233	68, 824	69, 436	94, 5
Pennsylvania	15,379	14,166	14,009	14,199	14, 431	14,745	15,379	15, 638	16, 013	16, 193	16, 359	16, 578	16, 838	83, 2
Rhodo Island.	36,336	35,296	35,067	35,640	35, 408	85,530	35,814	36, 852	36, 900	37, 193	37, 000	37, 505	37, 827	92, 7
South Carolina	48,079	48,701	47,156	47,309	<i>46, 778</i>	47,049	47,592	47, 297	48, 046	49, 238	49, 071	48, 818	49, 898	93, 7
Tennessee	4,895	5, 162	5,066	4,922	4,669	4,708	4,732	4,722	4,918	4,453	5,039	5, 130	5,219	85, 3
	2,633	2, 812	2,673	2,620	2,564	2,613	2,605	2,618	2,688	2,669	2,638	2, 576	2,620	90, 3
	1,092	1, 101	1,104	1,091	1,068	1,065	1,052	1,074	1,101	1,115	1,104	1, 119	1,110	94, 0
	6,518	6, 072	6,124	6,175	6,364	6,480	6,531	6,596	6,722	6,794	6,636	6, 851	6,871	88, 4
States showing large proportion of females.										•				Per et. av. is of state.
Georgia ¹	14,588	15,394	13,905	13,853	13,852	14, 261	14,430	14,520	14,736	14,650	14,992	15,067	15,396	38, 1
Illinois ¹	782	708	708	736	730	742	774	830	841	839	819	795	867	50, 8
Indiana	561	544	593	594	563	547	556	<i>537</i>	562	555	560	568	553	56, 3
Kentucky ¹	521	662	676	678	676	639	693	<i>296</i>	385	303	489	303	532	53, 9
Massachusetts.	57,613	58,219	56,103	55,717	55,528	56, 237	57,924	58,566	58,133	58,835	57,393	59,084	59,617	46, 4
New Jersey North Carolina. Rhode Island South Carolina.	5,464 25,260 16,877	5,433 25,534 16,559 16,117	5, 145 25, 564 16, 848 15, 476	5,327 25,027 16,413 15,677	5, 452 25, 244 16, 854 15, 449	5, 484 24, 729 16, 879 15, 417	5, 512 24, 966 16, 508 15, 542	5,407 25,215 17,087 15,439	5,558 24,618 17,170 15,572	5, 589 24, 695 17, 216 16, 112	5, 520 25, 724 17, 405 16, 096	5, 490 25, 790 17, 427 16, 042	5, 651 26, 014 17, 658 16, 541	56. 5 37. 5 46. 4 32. 8

Excludes statistics for 1 establishment to avoid disclosure of individual operations.
 Excludes statistics for 2 establishments to avoid disclosure of individual operations.

Table 5.—AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES, WITH PER CENT, BY SEX AND AGE: 1919, 1914, AND 1909.

			PER C	ENT OF T	OTAL.				PER CE	NT OF TO	OTAL.
STATE.	Census year.	Wage earners (average number).	16 year and	s of age	Under 16 years	STATE.	Census year.	Wage earners (average number).	16 years and c		Under 16 years
			Males.	Females.	of age.				Males.	Females.	of age.
United States	1919	446, 852	54.7	40.5	4.8	New Hampshire	² 1919 1914	21, 294 21, 669	53, 4 56, 2	45.3 43.2	1.3 0.6
New England states Cotton-growing states All other states	1919 1919 1919	211, 118 192, 544 43, 190	51.7 59.1 50.1	43.3 36.0 46.8	5.0 4.9 3.1	New Jersey	1909 1919	22, 290 9, 672	49.7 43.5	48.3 53.1	3,3
United States	1914 1909	393, 404 378, 880	53.4 50.9	38. 2 38. 7	8. 4 10. 4	-	1914 1909	7,394 6,038	44.8 38.1	49. 6 52, 9	5.6 8.9
Alabama	1919 1914	18, 102 13, 697	60. 4 51. 3	37.9 32.0	1.8 16.7	New York	1919 1914 1909	10,493 9,127 10,663	60.5 56.3 55.3	38.6 41.9 42.0	0.9 1.8 2.8
Connecticut	1909 1919 1914	12, 781 16, 483 15, 466	50.2 55.7 56.3	31.1 39.5 39.4	18.7 4.8 4.3	North Carolina	1919 1914 1909	67, 297 53, 703 47, 231	56.9 55.3 51.1	37.1 31.4 30.0	
Georgia	1909 1 1919 1 1914	14,360 38,283 30,719	55.8 60.3 53.5	39.4 36.4 27.8	4.8 3.4 18.7	Pennsylvania	1919 1914 1909	15,379 14,640 16,293	47.9 44.9 43.9	47.9 48.1 49.3	7.0
Illinois	1909	27, 803 1, 538	52. 6 44. 0	32. 4 46. 7	15.0	Rhode Island	1919 1914	36,336 29,483	51.5 51.3	42.5 43.1	
Ammora,	1914 1909	1,356 1,319	33.1 30.6	63.1 62.7	3. 7 6. 7	South Carolina	1909	28, 786 48, 079	50.7 63.5	43, 3 30, 2	1
Indiana	1919 1 1014 1909	997 961 1,582	42.5 40.8 28.8	50, 3 52, 5 62, 9	7. 2 6. 7 8. 3		1914 1909	46, 448 45, 454	58.3 56.6	26. 4 24. 7	15.3 18.7
Kentucky	1 1919 1914	967 1, 158	46.6 44.2	50, 7 55, 0	2.7 0.8	Tennessee	1919 1914 1909	4,895 3,403 3,078	51.7 49.8 44.5	43.7 39.8 37.9	10.4
Maine	1900 1919 1914	1,044 11,763 13,834	39.6 52.0 52.1	52.6 47.2 44.8	7.8 0.8 3.1	Texas	1919 1914 1909	2,633 1,875 1,590	62.0 64.3 53.1	37. 5 32. 4 32. 7	3.3
Maryland	1909	14,634 3,416	47. 6 50. 7	46.6	5.8 1.1	Vermont	1919 1914	1,092 992	55. 6 60. 9		0.6
Man y later Comments	1914 1909	3, 424 3, 966	50.1 41.6	43.0 42.5	6.9 15.9	Virginia	1909	683 6,518	43.0 62.1	35.3	2, 5
Massachusetts	1919 1914 1909	124, 150 113, 559 108, 914	50. 9 52. 0 51. 2	43.3 44.1 43.1	5.8 3.9 5.7		1914 1909	6,310 5,057	65. 0 57. 1	30. 6 29. 5	
Mississippi	. 1919 1914 1909	2,406 1,989 2,645	49. 4 50. 2 38. 0		9, 5						

 ¹ Excludes statistics for 1 establishment to avoid disclosure of individual operations.
 2 Excludes statistics for 2 establishments to avoid disclosure of individual operations.

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TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

		IN ES	CABLIS	IMENTS LABOR		E THE P WEEK V		ING HOT	urs of			IN ES	rablisi			E THE P WEEK V		ING HOT	JRS OF
STATE.	Total.	and un- der.	Be- tween 44 and 48.	4 8.1	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Over 60.	STATE.	Total.	and un- der.	Be- tween 44 and 48.	48,1	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Over 60.
Alabama:	446, 852 393, 404 378, 880	1,697 (2) (2)	413 (2) (2)	====	2,879	571	190,998	119, 226	64,902	New Hampshire: 1919 4 1914. New Jersey: 1919.	21,294 21,669 9,672 7,394	11 486		15, 508 4, 133		5,696 8J 55 5	21,639 687 6,651	691	
1919 1914 Connecticut: 1919 1914 Georgia:	18,102 13,697 16,483 15,466	323		11,502	1,035 71	242 8 6	3,615 15,273	11,782	1,107	New York: 1919. 1914. North Carolina: 1919. 1914.	10,493 9,127 67,297 53,703	153 (²) 75	(2).	6,439 14 484	632 251 1,421	3,228 7,118 1,823	695	,	
1919 s 1914 s Illinois: 1919 1914 Indiana:	38, 283 30, 719 1, 538 1, 356		(2)	869 1	242 245	602	117 419 290	218		Pennsylvania: 1919. 1914. Rhode Island: 1919.	15,379 14,640 36,336 29,483	67	(2)	ŀ	3,979 715 1,004 335	24.631	2,270 97	51	
1919. 1914 * Kentucky: 1919 * 1914. Maine:	997 961 967 1,158				441 835	159 84 407	397 434 1,088	443 225	5	South Carolina: 1919. 1914. Tennessee: 1919. 1914.	48,079 46,448 4,895 3,403			800	130	1,463 681 115	1,044 3,899	45, 404	•••••
1919. 1914. Maryland; 1919 ⁸ . 1914. Massachusetts:	3,416		325	2,183	80	11,763 352	13, 834 476 820			Texas: 1919 1914	2,633 1,875 1,092	II.		147		228 170	1.287	1,118 1,338	
1919. 1914. Mississippi: 1919. 1914.	124, 150 113, 559 2, 406 1, 989	(2)	(2)	111,303 1,051	3,284 935	7,808 110,434 127 65	1,139 220	2,059		Virginia: 1919. 1914.	8.518	 		******		438		738	5

¹ Includes 48 and under for 1914 and 1909. ² Corresponding figures not available.

TABLE 7.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, BY STATES: 1919.

	TO	OTAL.								ESTAB	LISHMENT	ез Емр	LOYING						
STATE.	Estab -	Wage earners	No wage earn- ers.	1 t wa eart inclu	ige iers,	ear	o 20 age ners, usive.	ear	to 50 age ners, usive.	ea.	to 100 vage rners, lusive.	ean	to 250 rage rners, lusive.	ea:	to 500 rage rners, lusive.	ea ea	to 1,000 yage rners, lusive.	w	r 1,000 age ners,
.	ments.	(average number).	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
United States1919 1914	1,496 1,328	446, 852 393, 404	2 8	54 39	177 125	143 100	1,842 1,197	163 153	5, 682 5, 494	220 217	18, 403 16, 332	438 375	71, 743 61, 502	228 213	81, 371 74, 840	157 144	108,658 99,099	91 79	160, 976 134, 815
Alabama. Connecticut Georgia ¹ Illinois ¹ Indiana.	57	18, 102 16, 483 38, 283 1, 538 997		1	5	1 6 4	15 46 50	5 9 5	168 285 213	9 6 23	610 469 1,703	22 13 53 3	3, 724 2, 296 8, 250 356 556	10 13 32 2 1	3,686 4,711 11,673 557 441	8 7 13 1	5, 743 4, 686 8, 489 575	3 2 6	4, 158 3, 985 7, 955
Kentucky ¹ Maine Maryland ¹ Massachusetts	6 14 14 231	967 11, 763 3, 416 124, 150	1	I	5 15	1 28	6 370	2 3 27	69 118 874	1 2 24	52 164 1,744	1 3 3 22	156 527 494 3,611	2 2 35	742 538 13,192	6 1 49	4, 137 654 34, 065	4 1 42	7, 047 1, 437 70, 279
Mississippi New Hampshire ² New Jersey New York	45 58	2, 406 21, 294 9, 672 10, 493		1 6 7	2 18 22	4 8 13	53 104 169	1 12 10	26 434 325	6 1 3 8	416 63 218 638	8 4 7 8	1,502 675 1,181 1,114	1 3 5 6	488 1,127 1,759 2,024	2 3	1,417 1,840	5 4 3	17,931 5,958 4,361
North Carolina Pennsylvania Rhode Island South Carolina	311 168 132 145	67, 297 15, 379 36, 336 48, 079	i	21 10	68 32	5 36 28 1	72 497 338 9	23 44 9 7	919 1,551 298 198	70 30 17 11	5,379 2,215 1,193 867	154 22 25 56	24,511 3,468 4,377 9,908	33 8 27 37	11, 428 2, 796 9, 639 12, 452	21 5 9 28	14,789 3,330 7,177 18,781	5 1 7 5	10, 199 1, 454 13, 282 5, 884
Tennessee	16 15 4 10	4, 895 2, 633 1, 092 6, 518	•••••	•••••	******	•••••	•••••			1 3	54 208	10 13 2 4	1,535 2,095 857 708	3 2 2 1	1,116 538 735 438	1 i	752 633	1	1, 438 4, 531

 ¹ Excludes statistics for 1 establishment to avoid disclosure of individual operations.
 2 Excludes statistics for 2 establishments to avoid disclosure of individual operations.

Excludes statistics for 1 establishment to avoid disclosure of individual operations.
 Excludes statistics for 2 establishments to avoid disclosure of individual operations.

TABLE 8.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.		UMBER C BLISHME			GE NUMBI GE EARNE		VALT	JE OF PRODUC	ets.	VALUE ADDED BY MANUFACTURE.			
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	
All classes	1,496	1,328	1,324	446,852	393,404	378, 880	\$2,195,565,881	\$701,300,933	\$628,391,813	\$880,664,339	\$257, 778, 418	\$257,382,343	
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	13 39 131 433 324 556	21 59 233 624 199 192	17 66 280 798 163	$ \begin{array}{c} 24\\ 196\\ 1,974\\ 29,929\\ 51,480\\ 363,249 \end{array} $	39 441 8,562 } 173,295 211,067	35 641 11, 120 174, 990 192, 094	32, 246 495, 653 7, 613, 751 { 127, 432, 091 237, 242, 198 1, 822, 749, 942	44,770 697,035 14,394,154 157,056,051 140,172,492 388,936,431	41,056 840,504 17,137,769 }278,026,841 332,345,643	20,811 273,039 3,046,769 48,363,093 90,073,575 738,887,052	23,928 276,796 5,168,008 104,105,038 148,206,648	18,643 366,628 6,031,393 108,548,215 142,417,464	
							PER CENT DIST	RIBUTION.					
All classes	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 \$5,000 to \$20,000 \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	0, 9 2, 6 8, 8 28, 9 21, 7 37, 2	1. 6 4. 4 17. 5 47. 0 15. 0 14. 5	1.3 5.0 21.1 60.3 12.3	(1) (1) 0.4 6.7 11.5 81.3	(1) 0.1 2.2 44.0 53.7	(1) 0. 2 2. 9 46. 2 50. 7	(1) (1) 0, 3 5, 8 10, 8 83, 0	(1) 0.1 2,1 22,4 20,0 55,5	(1) 0.1 2.7 44.2 52.9	(1) (1) 0.3 5.5 10.2 84.0	(1) 0.1 2.0 40.4 57.5	42.2	

1 Less than one-tenth of 1 per cent.

TABLE 9.—CHARACTER OF OWNERSHIP, BY STATES: 1919 AND 1914.

:		NIT	MBER	OF.	AVE	RAGE	NUMBER	OF WA	GE EA	RNERS.			VΔ	LUE OF PRODU	JCTS.			
BTATE.	Cen- sus	ESTAI	NED B	ENTS			tablishm vned by-		Per c	ent of	total.		Ofestab	lishments own	ed by-	Per ce	nt of t	otal.
	year.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.
United States	1919 1914 1909	105	1,307 1,116 1,113	87 107 101	393,404	4.425	438, 884 377, 708 362, 264	4,724 11,271 11,250	0.7 1.1 1.4	98. 2 96. 0 95. 6	1.1 2.9 3.0	\$2,195,565,881 701,300,933 628,391,813	\$15,211,594 8,711,335 11,489,389	\$2,154,402,091 672,269,539 598,770,236	\$25,952,196 20,320,059 18,132,188	0.7 1.2 1.8	98.1 95.9 95.3	1, 2 2, 9 2, 9
Cotton goods.	1919 1914	67 75	1, 164 1, 021	57 83	430,966 379,366	2,582 3,641	424, 402 365, 404	3,982 10,321	0.6 1.0	98.5 96.3	0.9 2.7	2,125,272,193 676,569,115	11,772,663 7,392,140	2,090,733,347 650,386,740	22,766,183 18,790,235	0.6 1.1	98. 4 96. 1	1.1 2.8
Cotton small wares.	1919 1914	32 27	104 60	28 21	9,396 6,598	623 593	8,031 5,234	742 771	6.6 9.0	85.5 79.3	7.9 11.7	40,896,835 11,525,033	3, 255, 072 1, 029, 170	34, 455, 750 9, 264, 000	3,186,013 1,231,863	8.0 8.9	84.3 80.4	7.8 10.7
Cotton lace	1919 1914	3 3	39 35	2 3	6,490 7,440	1 39 191	6,451 7,070	179	0.6 2.6	99.4 95.0	2.4	29,396,853 13,206,785	1 183, 859 290, 025	29, 212, 994 12, 618, 799	297,961	0.6 2.2	99.4 95.5	2,3
Alabama 2	1919	1	- 55	2	18,102		17,536	a 566		96.9	3. 1	79,643,343		78,069,912	⁸ 1, 573, 431		98.0	2.0
Connecticut	1919 1914	3 8	51 36	3 6	16,483 15,466	64 493	16,214 14,112	205 861	0.4 3.2	98.4 91.2	1. 2 5. 6	105,054,383 30,808,918	286,145 1,087,109	103,216,975 27,591,675	1,551,263 2,130,134	0.3 3.5	98.3 89.6	1.5 6.9
Georgia	4 1919 4 1914	1 5	128 111	3 2	38, 283 30, 719		37,813 530,719	³ 470		98.8 100.0	1.2	192,185,896 59,982,008		190,037,096 59,982,008	3 2, 148, 800		98.9 100.0	1.1
Maine 3	1919		14		11,763		11,763			100.0	 	56, 563, 825		56, 563, 825			100. 0	
Massachusetts	1919 1914	6 7	216 169	9	124,150 113,559	278 352	123,324 111,304	548 1,903	0.2 0.3	99.3 98.0	0.4 1.7	604,937,749 197,322,111	1,869,558 688,173	600,485,237 192,009,028	2,582,954 3,724,910	0.3	99.3 97.8	1.9
New Hampshire 2	41919	2	16	3	21, 294	 	21,019	* 275	 	98.7	1.3	86,391,695		84,712,579	* 1,679,116		98.1	1.9
New Jorsey	1919 1914	7 6	36 19	2 5	9,672 7,394	1 146 36	9,526 7,263	95	1.5 0.5	98.5 98.2	1.3	60, 475, 426 16, 782, 164	1 629, 932 98, 807	59,845,494 16,549,802	133,555	1.0 0.6	99. 0 98. 6	0.8
New York	1919	12 10	40 31	6 10	10,493 9,127	201 108	10,056 8,655	236 364	1.9 1.2	95.8 94.8	2.2 4.0	55,287,042 18,464,811	785, 421 421, 599	52,463,349 17,185,555	2,038,272 907,657	1.4 2.3	94. 9 92. 8	
North Carolina	1919 1914	7	296 273	8 9	67,297 53,703	398 834	66,045 52,075	854 794	0.6 1.6	98.1 97.0	1.3 1.5	318,368,181 90,743,683	1,707,655 1,811,435	312,993,628 87,694,395	3,660,898 1,237,853	0.5 2.0	98.3 96.6	1
Pennsylvania	1919	41 40	89 76	38	15,379 14,640	1,158 1,451	12,359 9,956	1,862 3,233	7.5 9.9	80.4 68.0	12.1 22.1	90, 581, 626 32, 400, 446	6, 454, 555 2, 844, 404	73,380,524 23,199,423	10,746,547 6,356,619	7.1 8.8	81.0 71.6	1
Rhode Island	1919 1914	13	111 74	8	36,336 29,483	211 197	36,019 26,093	106 3,193	0.8 0.7	99.1 88.5	0.3	177, 423, 087 49, 718, 837	623,289 431,073	176, 189, 288 44, 639, 729	610,510 4,648,035	0.4 0.9	99.3 89.8	9.3
South Carolina	1919		144	1	48,079		1 48, 079	8 223		100.0 99.5	0.5	228, 440, 242 78, 446, 145		1 228,440,242 78,011,480	434,665		100. 0 99. 4	

¹ Includes the group "All others."

Figures not available for 1914.

Includes the group "Individuals."

⁴ Excludes statistics for 1 establishment to avoid disclosure of individual operations.
5 Includes the groups "Individuals" and "All others."
6 Excludes statistics for 2 establishments to avoid disclosure of individual operations.

TABLE 10.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

	NUMBER OF	ENGINES O	R MOTORS.			Horsepower	•		
POWER.					Amount.		Per cer	ıt distributi	lon.
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total.	42,936	13,446	6,157	1,863,542	1,585,953	1, 296, 517	100.0	100.0	100.0
Owned Steam 1 Engines. Turbines. Internal-combustion engines Water wheels and turbines.	1,508 217 41	3,209 1,933 (2) (2) 59 1,307	3,487 2,087 (2) (2) 39 1,361	1,335,765 1,025,761 768,403 257,358 2,842 307,162	1,329,538 1,011,303 (2) (2) 4,016 314,219	1, 183, 037 877, 201 (2) (2) (2) 2, 812 303, 024	71. 7 55. 0 41. 2 13. 8 0. 2 16. 5	83, 8 63, 8 (2) (2) 0, 3 19, 8	91. 2 67. 7 (2) (2) 0, 2 23. 4
Rented. Electric Other	1	10, 147 10, 147	2,670 2,670	527,777 523,696 4,081	256, 415 252, 864 3, 551	113,480 108,512 4,968	28. 3 28. 1 0. 2	16. 2 15. 9 0. 2	8, 8 8, 4 0, 4
Electric Rented Generated by establishments reporting	39,943	20, 282 10, 147 10, 135	6,559 2,670 3,889	874, 124 523, 696 350, 428	512, 903 252, 864 260, 039	235, 902 108, 512 127, 390	100. 0 59. 9 40. 1	100. 0 49. 3 50. 7	100. 0 46. 0 51. 0

 $^{^1}$ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

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

											10		1		
		CO	AL.			Gas- oline				COA	u.			Gas- oline	
STATE.	Cen- sus year.	Anthracite (tons, 2,240 pounds).	2,000	Coke (tons, 2,000 pounds).	Fuel oils (bar- rels).	and other volatile oils (bar- rels).	Gas (1,000 cubic feet).	STATE.	Cen- sus year.	Anthra- cite (tons, 2,240 pounds).	Bitumi- nous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Fuel oils (bar- rels).	and other volatile oils (bar- rels).	Gas (1,000 cubic feet).
United States	1919 1914	368, 595 313, 531	3,663,302 3,633,563	32,466 15,537	504, 135 24,755	3,964 (1)	134, 581 42, 846	New Jersey	1919 1914	66, 587 55, 531	50,351 40,068	51	4,206 19	171 (¹)	3, 157 4, 262
Alabama	1919 1914	2,940 300	203, 675 219, 353	561	5, 231 151	110 (¹)		New York	1919 1914	34,118 24,160	106, 505 67, 417		7,999 574	954 (¹)	281 6,314
Connecticut	1919 1914	18, 227 9, 527	114,388 109,137		3,226 84	67 (¹)	166	North Carolina	1919 1914	34,799 13,560	454,708 486,293	10 5,434	236 539	231 (¹)	
Georgia	21919 21914		386, 897 364, 642	400	444 674	663 (1)		Ohio	3 1919 1914		10,752 2,948		89	···(i)	3,900 2,292
Illinois	21919 1914		21,728 18,916				156	Pennsylvania	1919 1914	67, 249 55, 159	83,115 72,152	350	11,975 251	(i)	2,157 12,511
Indiana	1919 21914		33, 205 31, 275	32				Rhode Island	1919 1914	14,346 20,116	179,000 235,174	14,278 1,031	374, 291 320	391 (¹)	74,678 854
Kentucky	1919 1914		14,041 21,214			. 1		South Carolina	1919 1914	9,325 2,584	467,264 481,939	3,389	51 803	78 (¹)	
Louisiana	. 1919 1914		5,428					Tennessee	1919 1914		61,182 51,620	25 4,000	i5	(1)	
Maine	. 1919 1914	429 1,706	66,978 69,957		175	(1)	i9	Texas	1919 1914		17,571 37,426		35, 460 14, 674	(1)	40,577 70
Maryland	. 1919 1914	30	21,402 26,994			. 60		Vermont	. 1919 1914	2,661	6,090 9,164				
Massachusetts	. 1919 1914	59,590 120,299	1,094,395 1,004,328	1,370 1,497	43,312 4,595	1,005	9,801 16,156	Virginia	. 1919 1914		74,038 56,429			. 52	
Michigan	. 1919 1914		1,028					Wisconsin	. 1919 1914		3, 240			1	
Mississippi	. 1919 1914		. 38,609 28,680	43	. 86	(1)	-	All other states	. 1919 1914	11 1,552			10,634		30 46
New Hampshire	3 1919 1914	58, 283 37	129, 873 178, 185	15,346 185	7,070 1,682	(i)									

² Not reported separately.

Included in figures for fuel oils.
 Excludes statistics for 1 establishment to avoid disclosure of individual operations.
 Excludes statistics for 2 establishments to avoid disclosure of individual operations.
 These are included in "All other states."

SPECIAL STATISTICS.

Summary of materials for the United States.—Table 12 presents a detailed account of the quantity and cost of principal materials used in the cotton-manufactures industry as a whole for 1919, 1914, and 1909.

There is a certain amount of duplication of materials and products in a table of this kind which is the consequence of one establishment reporting as its product what another purchases and reports as materials. An illustration of this duplication is when a yarn mill and a weaving mill operate as independent establishments—the material for the former may be raw cotton and the product yarn, while the material for the latter is yarn and the product cloth. A complete mill, however, covering the operations of both spinning and weaving eliminates the duplication of many intermediate products.

TABLE 12.—PRINCIPAL MATERIALS USED IN COTTON MANUFAC-TURES: 1919, 1914, AND 1909.

MATERIAL.	1910	1914	1909
Total cost	\$1,314,901,542	\$443, 522, 515	\$371,009,470
Cotton (raw);1 Pounds	2,731,404,436	2, 523, 500, 837	2, 335, 344, 906
	\$907,683,931	\$330, 315, 223	\$274, 724, 210
Domestic—1 Pounds Cost	2, 612, 851, 431	2, 431, 405, 884	2, 259, 312, 974
	\$849, 286, 927	\$312, 586, 001	\$261, 547, 820
Foreign— Founds. Cost Dyed, bleached, and other treated	118, 553, 005	92, 094, 953	76,031,932
	\$58, 397, 004	\$17, 729, 222	\$13,176,390
Pounds	023,047	1,052,836	191,779
	\$14 5,040	\$111,423	\$21,591
Cotton waste:	120, 743, 520	54, 116, 105	80, 044, 061
Pounds	\$14, 344, 834	\$3, 542, 631	\$4, 225, 790
All other fibers: Pounds Cost	3,702,607	4,276,476	1,627,189
	\$4,201,302	\$3,203,262	\$1,176,449
Cotton yarn: Pounds Cost	230, 061, 217	139,482,027	126, 707, 003
	\$192, 018, 472	\$39,793,131	\$34, 384, 791
All other yarns: Pounds	3, 987, 052	3,309,277	5,605,522
	\$13, 963, 176	\$4,793,221	\$8,183,206
Starch, cost	\$5,579,310	\$2,629,558	\$2, 114, 756
	\$13,073,488	\$5,769,235	\$4, 886, 514
	\$163,891,089	\$53,364,831	\$41, 292, 163

1 Not including linters.

Principal materials consumed, by states.—A distribution, by states, of the principal materials consumed in the cotton-manufactures industry is shown in Table 13 for 1919 and 1914.

TABLE 13.—Consumption of Principal Materials in Cotton Manufactures, by States: 1919 and 1914.

	CO	ST.	QUANTITY	(POUNDS).
MATERIAL AND STATE.	1919	1914	1919	1914
Raw cotton, total Domestic 1	\$907, 683, 931 849, 286, 927 45, 739, 464 20, 914, 671 104, 443, 982 24, 550, 268	312,586,001 15,884,377 8,018,943	2,731,404,436 2,612,851,431 150,355,697 53,629,265 *338,338,608 77,425,777	2,431,405,884 128,585,533 52,333,105 2286,910,813

¹ Not including linters.

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

Table 13.—Consumption of Principal Materials in Cotton Manufactures, by States: 1919 and 1914—Continued.

MATERIAL AND	COS	r.	QUANTITY (edano).
STATE.	1919	1914	1919	1914
Raw cotton—Continued, Domestic—Continued, Maryland Massachusetts. Mississippi, New Hampshire New Jorsey New York, North Carolina. Pennsylvania. Rhode Island South Carolina. Tennessee: Texas. Virginia. All other states.	\$8, 937, 212 210, 174, 038 4, 335, 759 35, 493, 453 20, 352, 023 155, 667, 051 4, 724, 840 41, 491, 054 118, 148, 478 11, 580, 178 8, 077, 732 14, 707, 306 15, 981, 434	\$2,970,256 \$0,309,154 1,545,598 16,904,341 1,706,849 7,399,836 11,040,026 2,326,431 15,554,914 4,075,400 5,179,780 5,179,779,372	29, 196, 868 597, 742, 102 14, 370, 337 122, 623, 353 11, 028, 039 62, 168, 373 479, 263, 912 13, 735, 249 113, 726, 386 379, 016, 877 35, 385, 601 29, 491, 754 470, 01, 557	25, 444, 796 576, 617, 532 13, 897, 381 134, 996, 047 12, 112, 221 57, 118, 973 19, 227, 080 10, 357, 913 33, 531, 384 20, 550, 926 39, 202, 381 46, 197, 917
All other states	. 15, 981, 434	5, 379, 372	118, 553, 005	92, 094, 953
Connecticut. Massachusetts New Hampshire. New Jersey. North Carolina. Pennsylvania. Rhode Island. South Carolina. All other states.	4, 173, 594 34, 198, 223 1, 941, 531 3, 214, 459 937, 390 236, 614 11, 887, 843	1, 800, 646. 9, 017, 409 991, 309 2, 063, 992 462, 509 156, 021 2, 458, 741 87, 591 690, 914	7,726,664 64,984,048 8,153,126 6,222,138 2,980,563 431,230 26,378,748	8,394,202 48,110,012 6,415,766 9,610,520 2,846,386 845,001 12,045,334 420,188 3,397,484
Dyed, bleached, and other treated cotton		111,423 3,063,836	623, 047 593, 982	1,052,836 1,057,083
silk	212,908	139,426	3,108,625	3,219,393
Cotton yarn. Connecticut. Maine. Maryland. Massachusotts. New Hampshire. New Jersey. New York. North Carolina. Pennsylvania Rhode Island All other states.	192,018,472 32,543,788 140,391 1 588,857 53,890,141 1,437,940 23,834,892 4,382,440 4,031,297 35,944,138 27,731,899 6,622,689	39, 793, 131 4, 172, 975 326, 262 806, 266 9, 284, 324 440, 536 4, 676, 353 1, 335, 805 2, 097, 731 10, 814, 194 4, 212, 245 1, 627, 440	230, 061, 217 33, 839, 546 238, 751 2, 749, 457 64, 214, 703 2, 572, 142 28, 646, 931 5, 423, 056 6, 527, 862 42, 070, 842 33, 401, 710 10, 376, 217	139, 482, 027 10, 796, 133 1, 225, 331 4, 746, 710 31, 117, 952 2, 020, 727 12, 240, 169 4, 682, 360 10, 550, 363 40, 724, 610 13, 262, 085 8, 116, 587
Vorus, other than cotton	13,963,176	4, 793, 221	3,987,052	3.309.277
Cotton waste. Alabama. Connecticut. Georgia Maine. Maryland Massachusetts. New Hampshire. New York. North Carolina Pennsylvania Rhode Island South Carolina All other states.	14, 344, 834 254, 008 520, 801 2, 329, 156 648, 926 3, 707, 322 1, 405, 683 278, 999 149, 206 643, 411 605, 05	3,542,631 142,848 91,030 2 549,612 455,747 122,088 860,438 124,519 411,100 2 128,442 112,631 112,732 3 136,013 1272,732	120,743,520 1,631,521 2,262,521 12,420,341 3,489,561 36,886,567 8,850,72 13,361,45 2,142,84 1,476,59 5,921,56 13,344,26 2,442,26 2,442,26 3,449,26 2,21,52 2,142,84 1,476,59 1,476,59 1,592,56 1,592	54, 116, 105 2, 713, 327 1, 626, 700 1, 636, 231 5, 004, 762 2, 126, 442 117, 836, 518 1, 422, 815, 61 1, 1912, 953 1, 191

Detailed statement of materials used, by states.—A distribution, by states, of the principal materials used in the cotton-manufactures industry is shown in detail for 1919 in Table 14. The states are arranged according to rank by value of products.

The report which was secured at the census of 1919 was more comprehensive than those of former censuses and will be found to contain many new items of interest which are in keeping with the expansion of the industry. The quantities and kinds of cotton waste purchased and used are shown by states. The rags reported are those to be used for garnetting, or reworked for further manufacture, and not for paper stock. Considerable information is also shown for the first time with respect to the different kinds of yarn which were purchased and consumed by the industry.

TABLE 14.—MATERIALS USED IN COTTON MANUFACTURES, BY STATES: 1919.

MATERIAL.	UNITED	STATES.	MASSA SETI		ORTH COLINA.	SOUTI		ORGIA.	RHODE ISLAND.	CONNECTI-	PENNSYL VANIA,
	Pounds.	Cost.	Potin	ds. P	ounds.	Pound	ls. Po	ounds.	Pounds.	Pounds.	Pounds.
aw cotton, total. Domestic Sea-island. American-Egyptian Other long-staple (1½ inches and	2,731,404,430 2,612,851,43: 20,804,90: 20,695,56	1	27 597, 74 68 7, 54 76 11, 67	6, 150 482, 2, 102 479, 8, 931 1, 3, 546 1,	244, 475 263, 912 941, 119 260, 754		, 275	,157,702 ,338,608 ,317,530	140, 105, 134 113, 726, 386 4, 429, 621 4, 854, 220	61, 855, 929 53, 629, 265 3, 689, 430 2, 026, 407	14, 166, 4 13, 736, 2 863, 4
Short-staple (under 1 inches)	2,086,340,12	186,237,1 639,671,6	88 231,16 95 347,35	4,428 68 5,197 407	850, 996 211, 043	26, 756, 352, 820,	,096 2 ,506 1334	, 389, 765 , 631, 313	83, 800, 038 20, 642, 507	34, 349, 625 13, 563, 803	1,945,7 10,926,0
Foreign Egyptian Other	118,553,00 88,710,60 29,842,40	5 58,397,0 47,419,8 1 10,977,1	04 64, 98 79 50, 82 25 14, 15	5,797	980, 563 980, 563		1	,819,094 ,671,855 147,239	26,378,748 21,322,148 5,058,600	7,726,664 7,221,811 504,853	431, 378, 52,
Inters Open cotton fiber, dyed, bleached, etc	26,951,18 623,04	1,719,7 7 145,9	61 2,41	9,651	13,147	143,		,811,611	224,000	340, 123	576,
otton waste, purchased Soft. Hard. Rags.	120, 743, 52 103, 498, 39 11, 218, 09 6, 027, 02	R	25,60	3,730 2 4,900	,142,844 ,141,644 1,200	3,449 3,427 21	, 268 12 , 475 12 , 793	,420,341 ,350,341 70,000	5,921,561 5,921,561	2, 262, 821 2, 262, 821	1,476, 1,323, 2, 151,
Wool waste, silk waste, and raw wool, pur- chased. Raw silk Jother fibers. Cotton card laps, roping, sliver, and roving,	39,71 593,98 3,099,38	2 3,988,3	316 194 38 360	22,910 34,846 35,067	· · · · · · · · · · · · · · · · · · ·	21	,285		7,568 1 67 ,405	14,506	2, 499,
		9 1,631,3	149	6,444				3,171	2,067,472	95,323	
Yarn, purchased. Cotton Not mercerized. Mercerized. Woolen, worsted, and merino Woolen.	234, 048, 26 230, 061, 21 224, 125, 35 5, 935, 85 484, 39 115, 53	8 184,685,9 9 7,332,4 0 850,4	(<u> </u>			33,709,190 33,401,710 31,594,636 1,807,074 61,166 2,500	34, 164, 883 33, 839, 546 33, 026, 279 813, 267	43, 480, 42, 070, 40, 213, 1, 857, 341, 112, 208,
Varn, purchased. Cotton Not mercerized. Mercerized. Woolen, worsted, and merino. Worsted Merino Silk. Organzine. Tram Spun. Artificial Other yarns.	313, 06 55, 79 2, 261, 39 184, 27 1, 044, 12 260, 99	0 12,098,6 2 1,071,6 4 5,811,6 1 1,407.4	1,29 1,29 1,29 1,05 7,05 7,05 1,05 1,05 	03, 512 52, 892 52, 151 38, 186	5,603	9	,881 804 ,607	950 950	58, 660 210, 850 6, 046 113, 213 16, 154 75, 437	137, 326 3, 361 120, 000 11, 630 2, 335	208, 20, 503, 14, 37, 60,
Other yarns	772,00 1,241,27	0 1,014,0	64	10,513	5,603	1 . 1			55, 404	2,335 188,011	390 564
Starch, cost Chemicals and dyestuffs, cost		5,579,3 13,073,4	10 \$1,34 88 \$3,32	13,057 22,344 \$2	\$765, 198 , 937, 435	\$873 \$435	5,335 5,736	\$666,802 \$904,331	\$242,740 \$957,367	\$350,710 \$250,012	\$89 \$985
MATERIAL.	NEW HAMPSHIRE.	ALABAMA.	NEW JERSEY.	MAINE.	NE YOR	r.	IRGINIA.	TENNES- SCE.	MARYLANI	TEXAS.	ALL OT
	Pounds.	Pounds.	Pounds.	Pounds.		ids. I	Pounds.	Pounds	. Pounds.	Pounds.	Poun
Raw cotton, total. Domestic. Sea-island American-Egyptian. Other long-staple (1½ inches and over) Short-staple (under 1½ inches)	128,776,479 122,623,353 753,649 2,549	150, 355, 697 150, 355, 697	17, 250, 747 11, 028, 609 1, 084, 346 13, 651	77,728,70 77,425,77		1,719 47 3,373 47	7,069,150 7,069,150	35, 350, 60 35, 350, 60 1, 04	01 29, 196, 868	29, 491, 754	72, 236 72, 090
over) Short-staple (under 1½ inches)	116,727 121,750,428	2,599,527 147,756,170	4, 158, 226 5, 772, 386	18, 760, 05 58, 656, 72	3 1,820 4 60,343), 449 1 5, 924 45	1, 405, 046 5, 664, 104	1,447,08 33,902,47	38 260,039 73 28,927,820	29, 491, 754	5, 168 66, 921
Foreign Egyptian Other		• • • • • • • • • • • • • • • • • • • •	6, 222, 138 5, 525, 190 696, 948	302, 92 302, 92		3,346 5,846 2,500	· · · · · · · · · · · · · · · · · · ·				146 58 92
Linters Open cotton fiber, dyed, bleached, etc		674,715	5,600,000		4,508	5, 500), 777					10,990
Cotton waste, purchased Sott. Hard. Rags.	2, 670, 178	1,681,501 1,646,463 35,038	391,300 391,300	3, 489, 56 2, 681, 37 808, 18	1 13,361 7 12,188 4 1,043	3,450 7,005	81,500		279,148 197,062	3	
Wool waste, silk waste, and raw wool, pur- chased Other fibers		***	:								
thaw sir. Other fibers. Cotton card laps, roping, sliver, and roving, purchased	403,379				210	5,940 5,000					2,21
Yarn, purchased. Cotton. Not mercerized. Mercerized. Woolen, worsted, and merino	2,534,656 2,524,903 2,494,075 30,828	388, 522 382, 761 382, 701	28, 832, 657 28, 646, 931 28, 452, 735 194, 196 41, 790	318, 37 238, 75 229, 81 8, 93	6 5,691 1 5,424 6 5,124 5 299	1, 981 3, 056 3, 116 0, 940 42	537,613 524,070 524,070		100,000	5,000 7 5,000 7 5,000	2,92
Merino		·····	6,000 35,790		•-	42	• • • • • • • • • • • • • • • • • • • •		39,629	5-	
	. 9, 227	5,761	27,411 1,852 10,500		42	2,854 5,230 2,325 1,502 3,797	13,543				
Organzine	173	5,761	12, 459		1		13.543			1 .	1
Organzine	9,054 526	5,761 \$191,791 \$61,461	12, 459 3, 100 116, 525	79,62	35 5 226	3,797 3,029	13, 543				

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

Cotton consumed in the industry.—Table 15 shows the number of bales, pounds, and cost of the different kinds of raw cotton used in the industry during 1919.

TABLE 15.—COTTON CONSUMPTION IN COTTON MANUFACTURES:

KIND.	Bales.	Pounds.	Cost.
Total	1 5, 529, 422	1 2, 731, 404, 436	1 \$907, 683, 931
Cotton (raw): Domestic Soa-island American-Egyptian Otherlong-staple (1½ inches and over) Short-staple (under 1½ inches). Foreign. Egyptian Other	5, 329, 978 52, 154 40, 726 961, 450 4, 275, 643 199, 449 128, 959 70, 490	2, 612, 851, 431 20, 804, 901 20, 605, 568 485, 010, 838 2, 086, 340, 124 118, 553, 005 88, 710, 604 20, 842, 401	849, 286, 927 12, 016, 268 11, 361, 776 186, 237, 188 639, 671, 695 58, 397, 004 47, 419, 879 10, 977, 125
			j

¹ Not including linters, 55,155 bales; 26,951,183 pounds; \$1,719,761 cost.

Cotton consumed in the industry, by states.—The quantity of cotton consumed in the industry is shown in Table 16 for 1919, 1914, 1909, and 1904. Statistics are given also for the cotton-growing states, the New England states, and for the most important individual states.

Summary of products for cotton manufactures.—Detailed statistics of the various kinds of products manufactured within the cotton-goods, cotton small-wares, and cotton-lace industry are shown in Table 17. Separate total values for each of these industries are presented for 1919, 1914, and 1909, but the commodities listed according to kind and distributed by states are shown by quantity and value for the three industries combined.

TABLE 16.—COTTON CONSUMPTION IN COTTON MANUFACTURES, BY STATES: 1919, 1914, 1909, AND 1904.

	11	019	1:	914	1:	009	1	904
	Bales.	Pounds.	Bales.	Pounds	Bales.	Pounds.	Bales.	Pounds.
Total 1	5,529,422	2, 731, 404, 436	5, 167, 975	2, 523, 500, 837	4, 828, 736	2,335,344,008	3,749,765	1,876,437,150
DomesticOther than sea-islandSea-islandForeign	5,329,973 5,277,819 52,154 199,440	2, 612, 851, 431 2, 592, 046, 530 20, 804, 901 118, 553, 005	5,027,391 4,945,718 2,81,673 140,584	2, 431, 405, 884 2, 400, 803, 011 2 30, 602, 873 92, 094, 953	4,717,343 4,649,504 267,749 111,393	2, 259, 312, 974 2, 233, 038, 701 2 26, 274, 273 76, 031, 932	3,690,145 3,635,761 54,384 59,620	1,832,736,744 1,810,874,712 21,862,032 43,700,406
STATE QROUPS. Cotton-growing states ³ New England states All other states	3, 151, 274 2, 101, 002 276, 546	1,516,905,394 1,075,936,337 138,502,705	2,814,147 2,069,171 284,657	1,341,178,496 1,041,083,642 141,238,699	2, 469, 208 2, 041, 734 317, 794	1, 162, 969, 470 1, 014, 926, 193 157, 449, 243	1, 829, 337 1, 647, 207 273, 221	891, 944, 186 846, 023, 549 138, 469, 415
PRINCIPAL STATES. Alabama. Connecticut Georgia. Maine. Maryland.	302,867 122,414 4 683,226 153,026 58,960	150, 355, 697 61, 355, 929 340, 157, 702 77, 728, 700 20, 196, 868	265, 840 118, 808 4 606, 198 172, 107 54, 128	128, 668, 433 60, 727, 307 4 288, 456, 008 85, 854, 827 25, 079, 525	241,073 117,189 529,726 160,550 57,358	116, 232, 495 57, 723, 360 250, 820, 180 78, 678, 643 27, 460, 792	199, 806 104, 025 406, 001 131, 578 53, 794	99, 100, 678 53, 278, 482 198, 108, 953 67, 509, 692 27, 054, 032
Massachusetts	1, 293, 081	662, 726, 150 14, 370, 837 128, 776, 479 17, 250, 747 63, 574, 719	1, 236, 972 29, 144 291, 332 39, 147 119, 734	624, 727, 544 13, 897, 361 141, 411, 813 21, 722, 741 58, 124, 466	1, 244, 614 34, 202 285, 659 34, 354 141, 003§	622, 368, 027 16, 371, 192 138, 532, 627 18, 400, 527 68, 766, 704	955, 965 25, 640 262, 894 33, 358 100, 924	489, 989, 581 13, 007, 025 134, 809, 575 16, 319, 80 51, 835, 100
New York. North Carolina. Pennsylvania. Rhodo Island. South Carolina.	1	482, 244, 475 14, 166, 479 140, 105, 134 379, 610, 877	881, 156 41, 435 238, 206 784, 231	418, 270, 725 20, 572, 141 122, 403, 247 372, 894, 331	754, 483 50, 691 223, 670 690, 834	350, 210, 614 25, 688, 597 112, 757, 027 324, 385, 778	503, 560 50, 918 183, 132 558, 100	242, 360, 73: 25, 873, 72: 95, 548, 63: 270, 957, 46:
South Carolina. Tonnessee. Texas. Virginia. All other states 6.	73,452 58,884	35, 350, 601 29, 491, 754 47, 069, 150 57, 866, 138	II.	33, 531, 384 20, 850, 026 39, 202, 891 46, 205, 167	58, 574 32, 686 78, 017 94, 053	28, 312, 077 15, 893, 288 37, 160, 966 45, 582, 012	38, 332 18, 055 46, 296 77, 387	19, 292, 27. 9, 206, 58 23, 018, 07 39, 166, 56

¹ Not including linters.
2 The figures given for sea-Island cotton for the years 1914 and 1909 represent the total consumption in all industries for the years ending August 31: those for "Other than sea-Island" were obtained by deduction.
3 The cotton-growing states included in this group are: Alabama, Arkansas, California, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, South and Tonnessee, Toxas, and Virginia.
4 Excludes statistics for 1 establishment to avoid disclosure of individual operations. These are included in "All other states."
4 Excludes statistics for 1 establishment to avoid disclosure of individual operations. These are included in "All other states."
4 Excludes statistics for 1 establishment to avoid disclosure of individual operations. These are included in "All other states."
5 All other states embrace: 1019—Arkansas, California, Illinois, Indiana, Kentucky, Louisiana, Missouri, Ohio, Vermont, and Wisconsin; 1909—Arkansas, Delaware, Illinois, Indiana, Kentucky, Louisiana, Missouri, Vermont, and Wisconsin.
5 Delaware, Illinois, Indiana, Kentucky, Louisiana, Missouri, Vermont, and Wisconsin; 1904—Arkansas, California, Delaware, Illinois, Indiana, Kentucky, Louisiana, Missouri, Vermont, and Wisconsin; 1904—Arkansas, California, Delaware, Illinois, Indiana, Kentucky, Louisiana, Missouri, Vermont, and Wisconsin; 1904—Arkansas, California, Delaware, Illinois, Indiana, Kentucky, Louisiana, Missouri, Vermont, and Wisconsin; 1904—Arkansas, California, Delaware, Illinois, Indiana, Kentucky, Louisiana, Missouri, Vermont, and Wisconsin; 1904—Arkansas, California, Delaware, Illinois, Indiana, Kentucky, Louisiana, Missouri, Vermont, and Wisconsin; 1904—Arkansas, California, Delaware, Illinois, Indiana, Kentucky, Louisiana, Missouri, Vermont, and Wisconsin; 1904—Arkansas, California, Delaware, Illinois, Indiana, Kentucky, Louisiana, Missouri, Vermont, and Wisconsin; 1904—Arkansas, California, Delaware, Illinois, Indiana, Kentucky, Louisiana, Missouri, Vermont, and Wisconsin; 1904—Arkans

TABLE 17.—SUMMARY OF PRODUCTS FOR COTTON MANUFACTURES: 1919, 1914, AND 1909.

PRODUCT.	1919	1914	1909	PRODUCT.	1919	1914	1909
Total value 1	\$ 2, 195, 565, 881	\$701, 300, 933	\$628,391,813	Woven goods (over 12 inches in width)—Continued.			
Cotton goods Cotton small wares Cotton lace	\$2, 125, 272, 193 \$40, 896, 835 \$29, 396, 853	\$676, 569, 115 \$11, 525, 033 \$13, 206, 785	\$615,217,702 \$13,174,111 (2)	Pillow tubing— Square yards	12, 112, 573 \$2, 555, 543	15, 212, 622 \$1, 483, 847	(2) (2)
Woven goods (over 12 inches in width): Square yards	6, 317, 397, 984	6, 813, 540, 681	6, 267, 561, 279	Mosquito netting and tarlatan— Square yards	34, 425, 307 \$3, 273, 376	97, 981, 783 \$2, 820, 524	59, 100, 819 \$2, 103, 560
Value Unbleached and bleached sheet- ings, shirtings, and mus- lins.—	\$1,489,610,779	\$489, 985, 277	\$447, 167, 319	Value. Bags and bagging a Square yards. Value. Other woven goods (over 12 inches in width)—	82, 433, 300 \$13, 139, 820	129, 357, 002 \$9, 705, 616	63, 107, 568 \$4, 862, 451
Square yardsValue Ducks—	3, 194, 100, 981 \$477, 407, 901	3, 852, 471, 903 \$196, 520, 984	3,709,031,377 \$199,900,874	Square yards Value.	924, 713, 709 \$281, 338, 000	687, 151, 971 \$66, 863, 030	455, 561, 997 \$52, 079, 099
Square yards	336, 500, 457 \$237, 082, 551	251, 367, 711 \$49, 179, 212	162, 476, 322 \$27, 485, 892	Lace and lace curtains: Value Tape and wobbing:	\$28, 258, 489	\$ 12, 521, 053	\$8,922,082
Value	368, 307, 601 \$85, 070, 745	489, 661, 133 \$36, 706, 542	537, 430, 463 \$37, 939, 040	Linear yards. Value. Twine:	1,065,551,328 \$15,296,061	1, 026, 231, 549 \$5, 030, 052	(4) \$5,531,674
Square yards	314, 822, 109 \$73, 253, 640	289, 969, 885 \$21, 256, 698	238, 869, 407 \$17, 750, 151	Pounds	11,860,195 \$5,935,245	13, 284, 875 \$2, 792, 125	13, 715, 771 \$2, 417, 391
Twills and sateens— Square yards Value Ticks and denims—	424, 478, 033 \$101, 056, 691	392, 108, 735 \$32, 891, 854	388, 314, 961 \$34, 274, 107	Cordage and rope: Pounds Value.	6, 815, 848 \$2, 857, 275	5, 515, 658 \$891, 223	7,603,907 \$1,164,526
Square yardsValueCotton flannel—	220, 381, 180 \$70, 080, 557	229, 330, 389 \$2 4, 947, 983	264, 870, 508 \$27, 350, 162	Thread: Pound. Value Yarns for sale;	26, 441, 943 \$55, 009, 176	26, 507, 023 \$22, 917, 099	23, 700, 957 \$20, 516, 269
Square yards Value Velvets, velveteens, cordurovs.	268, 067, 853 \$60, 152, 426	263, 862, 227 \$24, 352, 020	305, 655, 864 \$ 25, 695, 367	Pounds	618, 201, 812 \$ 453, 764, 883	497, 986, 999 \$127, 363, 952	470, 370, 995 \$109, 314, 953
and nluches	40, 183, 780 \$36, 673, 551	29, 128, 703 \$8, 540, 143	19, 706, 438 \$6, 965, 634	Value	315, 314, 238 \$36, 357, 674	317,360,019 \$14,421,929	310, 513, 348 \$10, 874, 386
Square yards Value Toweling and terry weaves— Square yards Value Tapestries—	75, 165, 515 \$31, 230, 370	75, 798, 907 \$9, 805, 232	52,778,170 \$6,037,075	Old bagging and ties from cotton bales, value	\$2,507,021 \$105,969,278	\$1,010,344 \$24,367,879	(2) \$22, 483, 213
Square yards Value	21,705,586 \$17,295,608	10, 137, 710 \$5, 411, 592	10,657,385 \$ 4,723,907				

¹ In addition, in 1919, cotton products to the value of \$44,479,105; in 1914 to the value of \$17,015,899; and in 1909 to the value of \$10,821,250, were reported by establishments engaged primarily in other industries. Of these amounts, \$10,763,188 in 1919 represents the value of cotton thread and cotton yarn reported by mills engaged chiefly in the production of knit goods, wool manufactures, and cordage and twine; \$4,442,141 in 1914, and \$2,007,506 in 1909, represent the value of cotton yarn reported by mills engaged chiefly in the production of knit goods, wool manufactures, and cordage and twine; and in 1919, \$18,408,540, in 1914, \$6,011,902, and in 1909, \$6,529,649, represent the value of cotton rope and twine reported by manufacturers of cordage and twine and jute and linen goods.

2 Not reported separately in 1909.

3 In addition, bags to the value of \$5,829,537 in 1919 were manufactured in cotton mills principally from purchased fabric. The value of such bags has been included in "All other products."

4 Quantity in 1909 reported as 9,663,482 pounds.

Summary of products for cotton manufactures, by states.—Statistics similar to those presented in the preceding table are shown in Table 18. Each important class of products is presented, by states, except in cases where individual operations would be disclosed. The quantity in pounds of woven goods was reported for the first time in 1919.

TABLE 18.—SUMMARY OF PRODUCTS FOR COTTON MANUFACTURES, BY STATES: 1919, 1914, AND 1909.

		QUAN	TITY.			VALUE.	
PRODUCT AND STATE.	1919	1919	1914	1909	1919	1914	1909
Total value	l				\$2, 195, 565, 881	\$701,300,933	\$628, 391, 813
Cotton-goods industry Cotton small-wares industry Cotton-lace industry.					2, 125, 272, 193 40, 896, 835 29, 396, 853	676, 569, 115 11, 525, 033 13, 206, 785	615, 217, 702 13, 174, 111 (1)
Woven goods (over 12 inches in width)	Pounds. 1, 814, 949, 042	Square yards. 6, 317, 397, 984	Square yards. 6, 813, 540, 681	Square yards. 6, 267, 561, 279	1, 489, 610, 779	489, 985, 277	447, 167, 310
Alabama. Connecticut Georgia Indiana. Maine.	1	266, 585, 986 199, 244, 653 556, 022, 081 16, 223, 169 206, 021, 206	246, 512, 045 203, 868, 284 596, 279, 936 31, 196, 210 238, 972, 102	213, 195, 840 186, 690, 012 480, 225, 528 46, 018, 961 250, 188, 405	60, 578, 243 68, 528, 161 140, 726, 106 3, 380, 389 49, 269, 661	19, 525, 519 18, 550, 045 43, 279, 755 1, 729, 577 19, 918, 332	10, 423, 719 15, 084, 224 33, 435, 737 2, 212, 510 20, 684, 410
Maryland Massachusetts. Mississippi New Hampshire New Jersey	21, 900, 544 392, 314, 466 10, 031, 668 102, 672, 070 33, 828, 485	17, 915, 469 1, 765, 948, 678 38, 727, 354 282, 531, 393 55, 136, 045	17, 940, 482 2, 066, 981, 948 42, 901, 210 357, 859, 393 41, 313, 974	21, 428, 788 1, 989, 578, 059 45, 596, 264 404, 831, 223 40, 196, 447	14, 131, 542 389, 911, 004 6, 547, 369 80, 023, 914 41, 220, 203	4,640,284 140,814,418 2,439,871 33,485,758 6,758,451	4, 436, 448 138, 626, 795 2, 778, 213 30, 985, 291 5, 319, 995
New York. North Carolina. Pennsylvania. Rhode Island South Carolina.	22, 933, 459 231, 142, 806 30, 318, 286 94, 562, 089 304, 870, 825	108, 774, 299 769, 846, 326 58, 874, 786 346, 789, 461 1, 283, 490, 769	121, 280, 718 748, 110, 020 66, 202, 776 351, 074, 515 1, 343, 606, 066	134, 028, 087 625, 876, 309 93, 834, 616 363, 133, 635 1, 079, 066, 885	22, 221, 635 172, 488, 385 48, 682, 122 111, 177, 315 204, 648, 028	7,727,228 50,221,104 10,235,292 30,042,850 70,579,894	9, 664, 962 42, 192, 107 18, 110, 153 31, 523, 150 57, 508, 154
Tennessee. Texas. Virginia. All other states.	21, 079, 756 25, 476, 065	64, 543, 615 53, 031, 345 140, 706, 553 77, 984, 796	70, 271, 185 41, 677, 534 137, 932, 424 89, 550, 859	63, 029, 001 37, 127, 223 103, 045, 506 81, 470, 400	13, 812, 757 13, 041, 254 31, 501, 391 17, 712, 300	4, 515, 562 3, 706, 654 9, 962, 298 5, 833, 385	3, 683, 512 2, 731, 932 6, 967, 544 4, 789, 454
Unbleached and bleached sheetings, shirtings, and muslins	607, 674, 805	3, 194, 100, 981	3, 852, 471, 903	3, 709, 031, 377	477, 407, 901	196, 520, 984	199, 900, 874
Alabama. Connecticut. Georgia. Maino. Massachusetts.	27, 836, 878 9, 557, 509 64, 675, 779 20, 510, 394 138, 038, 501	113, 402, 549 70, 427, 928 268, 901, 897 81, 557, 777 991, 503, 373	119, 924, 453 93, 298, 425 312, 675, 717 105, 715, 187 1, 340, 324, 920	123, 239, 454 03, 142, 124 263, 509, 923 136, 448, 937 1, 230, 679, 320	15, 497, 019 13, 401, 886 40, 280, 952 15, 310, 394 137, 986, 064	6, 266, 410 6, 423, 411 15, 545, 371 6, 623, 688 65, 014, 658	7, 005, 585 6, 820, 710 13, 127, 547 9, 122, 839 03, 028, 168
New Hampshire North Carolina. Rhode Island South Carolina All other states.	11, 671, 242 52, 609, 428 33, 227, 907 207, 293, 129 42, 254, 038	41, 327, 918 242, 477, 842 171, 255, 892 1, 016, 912, 301 196, 333, 504	54, 537, 854 307, 495, 671 204, 923, 852 1, 062, 448, 052 251, 127, 772	62, 200, 189 269, 603, 261 246, 831, 368 864, 624, 681 418, 752, 120	8, 540, 052 38, 944, 018 36, 907, 734 140, 008, 485 30, 531, 297	3, 443, 893 14, 206, 826 13, 923, 977 51, 471, 351 13, 541, 399	3, 588, 372 13, 285, 679 18, 212, 250 42, 702, 535 22, 947, 180
Ducks	,	336, 500, 457	251, 367, 711	162, 476, 322	237, 082, 551	49, 179, 212	27, 485, 895
Alabama. Georgia. Maryland. Massachusetts. New Jersey ² Texas. All other states.	40, 159, 918 67, 179, 083 17, 122, 700 49, 256, 263 24, 966, 174 17, 785, 414 72, 061, 098	58, 722, 438 77, 194, 196 13, 818, 116 49, 844, 048 22, 441, 049 31, 838, 893 82, 641, 717	38, 730, 257 77, 730, 988 13, 212, 532 35, 818, 890 9, 641, 288 27, 667, 048 48, 566, 600	29, 435, 832 49, 484, 921 13, 872, 294 29, 169, 491 5, 747, 008 13, 660, 253 21, 106, 523	22, 478, 395 43, 879, 551 10, 405, 023 50, 987, 332 33, 318, 980 8, 596, 326 67, 416, 944	6, 460, 231 11, 448, 884 3, 846, 524 10, 384, 436 4, 401, 889 2, 691, 968 9, 936, 280	4, 234, 765 6, 640, 335 3, 478, 115 5, 988, 825 2, 318, 13 1, 534, 585 3, 291, 12
Ginghams	<u></u>	368, 307, 601	489, 661, 133	537, 430, 463	85, 070, 745	36, 706, 542	37, 939, 04
Massachusetts North Carolina. South Carolina. All other states.	1,747,880	102, 297, 902 105, 680, 259 36, 447, 592 123, 881, 848	129, 379, 233 100, 741, 627 25, 698, 766 233, 841, 507	139, 552, 491 111, 994, 426 29, 417, 246 256, 466, 300	27, 409, 269 19, 836, 135 6, 324, 709 31, 500, 632	10, 157, 707 6, 427, 154 1, 456, 884 18, 664, 797	10, 753, 018 7, 103, 532 1, 525, 286 18, 557, 20
Drills		314, 822, 109	289, 969, 885	238, 869, 407	73, 253, 640	21, 256, 698	17,750,15
Georgia. Massachusetts. Mississippi. North Carolina. South Carolina. All other states.	0, 835, 041	86, 226, 872 30, 513, 477 7, 567, 026 38, 630, 477 96, 339, 969 55, 544, 288	68, 911, 226 12, 425, 634 6, 676, 949 18, 438, 152 98, 617, 604 84, 900, 320	64, 075, 402 17, 088, 244 7, 705, 349 18, 940, 774 75, 828, 918 55, 230, 720	19, 202, 104 6, 670, 675 1, 477, 025 9, 180, 838 21, 243, 723 15, 479, 275	5, 087, 859 1, 690, 223 448, 493 912, 799 6, 610, 701 6, 506, 623	4,378,103 1,998,819 437,721 1,119,825 5,062,204 4,753,483
Twills and sateens		424, 478, 033	392, 108, 735	388, 314, 961	101, 058, 691	32, 891, 854	34, 274, 10
Connecticut. Georgia. Maine. Massachusetts. New Hampshire.	13, 491, 612 14, 117, 549	29, 198, 245 25, 622, 585 40, 382, 934 116, 915, 845 28, 112, 365	33, 445, 109 15, 353, 897 29, 006, 658 129, 409, 523 45, 353, 004	40, 827, 992 27, 617, 061 159, 658, 540 47, 921, 784	5, 982, 241 8, 589, 810 10, 166, 527 25, 199, 482 8, 250, 408	2, 911, 329 1, 188, 687 2, 357, 347 11, 192, 661 4, 939, 594	3, 152, 073 2, 452, 673 14, 889, 803 4, 372, 003
North Carolina. Rhode Island. South Carolina. All other states.	16, 931, 268 9, 161, 611 23, 784, 207	14, 602, 532 74, 851, 993 27, 682, 951 67, 108, 583	15, 718, 054 74, 415, 258 13, 598, 202 35, 809, 030	12, 473, 668 53, 871, 689 12, 910, 370 33, 033, 857	2, 823, 646 17, 125, 339 6, 783, 891 16, 135, 287	1, 239, 480 5, 338, 728 844, 701 2, 879, 327	814, 76 4, 139, 57: 797, 62 3, 655, 58
Ticks and denims		220, 381, 180	229, 330, 389	264, 870, 508	70, 080, 557	24, 947, 983	27, 350, 163
Connecticut. Georgia. Massachusetts. New Hampshire. North Carolina. South Carolina. All other states.	10, 844, 923 15, 365, 269 10, 674, 183 43, 949, 512	10, 055, 188 19, 632, 868 31, 588, 216 19, 136, 608 91, 881, 497 14, 131, 800 33, 955, 003	13, 660, 250 30, 356, 304 35, 128, 181 17, 453, 313 85, 473, 708 11, 790, 017 35, 468, 616	14, 888, 985 35, 219, 627 58, 716, 976 21, 324, 650 97, 907, 821 8, 582, 717 28, 139, 732	3, 054, 608 7, 129, 775 10, 479, 031 7, 516, 894 29, 276, 705 3, 583, 226 8, 440, 318	1, 400, 188 2, 772, 007 3, 941, 760 2, 514, 731 9, 045, 956 1, 135, 377 4, 137, 964	1, 612, 636 2, 585, 817 6, 897, 897 2, 455, 76 9, 801, 356 308, 407 3, 188, 287

¹ Not reported separately in 1909.

Figures for 1919 exclude "ounce duck" to avoid disclosure of individual operations.

TABLE 18.—SUMMARY OF PRODUCTS FOR COTTON MANUFACTURES, BY STATES: 1919, 1914, AND 1909—Continued.

PRODUCT AND STATE.		QUAI	NTITY.			VALUE,	
PRODUCT AND STATE.	1919	1919	1914	1909	1919	1914	1909
Woven goods—Continued. Cotton flamel.	Pounds. 82, 319, 178	Square yards. 268, 067, 853	Square yards. 263, 862, 227	Square yards. 305, 655, 864	\$60, 152, 426	\$ 24, 352, 020	\$25, 695, 367
Georgia. Massachusetts New Hampshire. North Carolina All other states.	8, 331, 595 22, 754, 967 17, 572, 797 28, 507, 076 5, 152, 743	15,650, 295 78,640,678 59,592,244 98,430,715 15,741,921	16, 190, 524 75, 155, 157 49, 650, 233 90, 152, 119 32, 714, 194	20, 472, 753 123, 982, 755 71, 473, 313 64, 627, 668 25, 099, 375	4, 598, 467 17, 418, 179 13, 348, 996 20, 447, 108 4, 339, 678	1, 316, 680 7, 870, 079 5, 192, 818 7, 262, 674 2, 709, 769	1,700,757 9,470,477 6,567,134 5,389,195 2,567,804
Velvets, velveteens, corduroys, and plushes	26, 175, 547	40, 183, 780	29, 128, 703	19, 706, 438	36, 673, 551	8, 540, 143	6, 965, 634
Massachusetts Pennsylvania Rhode Island. All other states	7, 719, 646 6, 172, 296 3, 274, 998 9, 008, 607	12,059,895 6,463,830 5,180,230 16,479,825	8, 010, 211 4, 793, 205 5, 457, 570 10, 867, 717	6, 109, 238 3, 038, 945 3, 106, 639 7, 451, 616	9, 240, 219 11, 575, 008 4, 166, 569 11, 691, 755	2, 054, 181 2, 434, 588 2, 140, 780 1, 910, 594	1,707,507 1,515,405 1,135,767 2,606,955
Toweling and terry weaves	38, 197, 999	75, 165, 515	75, 798, 907	52, 778, 170	31, 230, 370	0, 805, 232	6,037,075
Georgia. Massachusetts. New Jersey. New York Pennsylvania. All other states	1	8, 566, 611 2, 697, 007 8, 852, 451 2, 929, 388 8, 326, 002 43, 794, 056	14, 836, 281 4, 279, 318 835, 862 3, 460, 425 9, 989, 645 42, 397, 376	12, 264, 366 4, 155, 909 10, 103, 237 1, 955, 625 10, 501, 557 13, 797, 476	3, 807, 842 857, 280 2, 326, 624 1, 307, 398 5, 260, 040 17, 671, 177	1, 657, 011 487, 237 239, 882 665, 423 2, 759, 147 3, 996, 532	1, 374, 772 413, 532 630, 614 430, 393 1, 749, 813 1, 437, 951
Tapestries		21,705,588	10, 137, 710	10, 657, 385	17, 295, 608	5, 411, 592	4,723,907
Pennsylvania. All other states.		9, 052, 124 12, 653, 462	8, 106, 698 2, 031, 012	8, 783, 867 1, 873, 518	13, 160, 694 4, 134, 914	4, 803, 688 607, 904	4, 163, 683 560, 2 24
Pillow tubing. Mosquifo netting and tarlatan. Bags and bagging ³ Other woven goods (over 12 inches in width)	3, 510, 374 3, 271, 283 25, 656, 705	12, 112, 573 34, 425, 307 82, 433, 300	15, 212, 622 97, 931, 783 129, 357, 002	(1) 59, 100, 819 63, 107, 568	2, 555, 548 3, 273, 376 13, 139, 820	1, 483, 847 2, 820, 524 9, 705, 616	(1) 2, 103, 560 4, 862, 451
Lace and lace curtains.		924, 713, 709	687, 151, 971	455, 561, 997	281, 338, 000	66, 363, 030	52, 079, 099 8, 922, 082
Tape and webbing	1	Linear yards. 1,065,551,328	Linear yards. 1, 026, 231, 549 Pounds.	(8)	28, 258, 489 15, 296, 061	12, 521, 053 5, 030, 052	5, 531, 674
TwineCordage and rope		Pounds. 11,860,195 6,815,848	Pounds. 13, 284, 875 5, 515, 658	(8) Pounds. 13, 715, 771 7, 603, 907	5, 935, 245 2, 857, 275	2, 792, 125 891, 223	2,417,391 1,164,526
Thread		26, 441, 943	26, 507, 023	23, 700, 957	55,009,176	22,917,099	20, 516, 269
Massachusetts Rhode Island. All other states	1	7, 226, 906 4, 936, 512 14, 278, 525	7, 713, 857 2, 675, 562 16, 117, 604	6, 563, 216 3, 715, 469 13, 422, 272	14, 819, 825 10, 410, 983 29, 778, 368	5, 310, 536 3, 247, 298 14, 359, 265	5, 285, 750 3, 516, 713 11, 713, 806
Yarns, for sale		618, 201, 812	497, 986, 999	470, 370, 995	453, 764, 883	127, 363, 952	109, 314, 953
Alabama Connecticut Georgia Maine Massachusetts		31,708,348 13,483,829 76,653,909 8,734,116 154,715,201	25, 767, 706 8, 409, 090 65, 777, 960 5, 583, 096 112, 623, 922	25, 560, 583 7, 914, 873 61, 956, 708 3, 259, 274 108, 930, 860	17, 452, 524 11, 735, 652 43, 316, 573 6, 633, 266 145, 888, 140	5, 220, 758 3, 497, 879 13, 274, 864 1, 772, 193 38, 784, 313	5, 100, 971 2, 846, 742 11, 971, 488 957, 011 31, 725, 674
Mississippi New Hampshire New Jersey New York North Caroling		2, 055, 323 3, 811, 883 2, 834, 375 37, 033, 298 199, 191, 556	1, 333, 799 968, 319 3, 723, 938 31, 675, 350 168, 310, 924	1, 119, 504 1, 930, 524 4, 926, 844 31, 766, 481 142, 213, 450	1, 285, 530 2, 777, 734 4, 370, 701 22, 198, 748 136, 208, 931	288, 050 341, 886 1, 400, 267 6, 968, 631, 37, 538, 174	220, 920 527, 521 1, 810, 075 6, 745, 518 28, 312, 873
Pennsylvania. Rhode Island. South Carolina Tennassee. All other states		6, 232, 189 28, 387, 208 29, 842, 984 10, 398, 809 13, 118, 784	9, 476, 991 15, 744, 098 27, 861, 944 8, 601, 057 12, 138, 805	11, 448, 343 19, 752, 920 32, 709, 732 7, 443, 170 9, 438, 729	3, 920, 168 24, 962, 360 19, 610, 005 6, 511, 385 6, 893, 2171	2, 075, 228 5, 679, 149 6, 078, 250 1, 783, 607 2, 660, 703	2, 591, 458 6, 666, 271 6, 759, 913 11, 378, 695 1, 699, 823
Cotton waste, for sale	1	315, 314, 228	317, 360, 019	310, 513, 348	36, 357, 674	14, 421, 929	10, 874, 386
Alabama Connecticut Georgia 4 Maino Massachusetts		5, 576, 872 133, 500, 403	8,622,029 11,374,187 19,128,934 9,529,852 125,634,736	10, 405, 797 11, 315, 800 19, 684, 927 7, 748, 539 115, 907, 265	831, 614 1, 784, 827 1, 747, 662 577, 372 18, 246, 641	325, 078 720, 299 605, 781 379, 392 6, 793, 957	219, 872 469, 811 510, 168 251, 179 4, 650, 374
New Hampshire. New Jersey. New York. North Carolina Pannsylvania.		7,630,620 5,298,097 7,532,751 40,610,235 1,731,184	15, 360, 363 4, 686, 591 5, 361, 414 38, 455, 783 2, 613, 542	12, 366, 641 3, 569, 041 7, 170, 930 34, 861, 543 3, 038, 771	461, 538 509, 348 852, 006 4, 055, 503 141, 935	409, 865 357, 725 238, 466 1, 390, 461 97, 915	263, 256 211, 347 250, 037 836, 852 36, 840
Rhode Island South Carollina Tennessee All other states		22, 859, 631 32, 541, 008 2, 428, 933 7, 818, 218	23, 079, 944 40, 417, 952 2, 246, 044 10, 848, 648	42, 158, 042 29, 621, 480 2, 164, 304 10, 500, 268	3, 095, 472 3, 177, 200 185, 613 690, 943	1, 325, 590 1, 349, 787 68, 806 358, 807	1, 984, 192 850, 246 56, 954 223, 958
Old bagging and ties from cotton bales All other products	1	•••••		,	2, 507, 021	1, 010, 344	(1)
Laurania Lau		***************************************			105, 969, 278	24, 367, 879	22, 483, 213

¹ Not reported separately in 1909.
2 In addition, bags to the value of \$5,629,537 in 1919 were manufactured in cotton mills principally from purchased fabric. The value of such bags has been included in "All other products."
3 Quantity in 1909 reported as 9,663,482 pounds.
4 Figures for 1919 and 1914 include only waste produced in the cotton-goods industry.

Woven goods continue to lead as the principal product of the industry with 70 per cent of the total value. Within this group the value of sheetings has given way to ducks for first place among the products of the loom. In 1914 ducks represented 10 and sheetings 27.2 per cent of the total value of woven goods, while in 1919 the corresponding percentages were 16 and 14.9. In 1919 tire duck formed over onehalf the total value of all kinds of duck, and in itself was 9.6 per cent of the total value of woven goods.

Summary of products for the cotton-goods industry.-The quantity (in pounds and square yards) and value of the products of the cotton-goods industry are presented in Table 19 for 1919. Statistics are given here in greater detail than in previous census reports, due to the expansion of the industry and to a rearrangement of items on the schedule used for collecting the data. Certain items included in composite classifications in Table 18 are here presented in detail, by states, for the cotton-goods industry, which excludes establishments manufacturing cotton small wares or cotton-lace goods as a primary product.

Table 19.—Summary of Products for the Cotton-Goods Industry: 1919.

PRODUCT AND STATE.	Pounds.	Square yards.	Value.
Total value			\$2, 125, 272, 193
Woven goods (over 12 inches in width). Sheetings. Alabama Georgia Maine Massachusetts Mississippi North Carolina Rhode Island	59, 091, 159 19, 119, 574 19, 590, 666 2, 960, 571	6, 317, 397, 984 1, 368, 946, 386 91, 042, 132 238, 861, 455 72, 968, 602 81, 367, 563 14, 026, 186 156, 590, 868 69, 779, 650 472, 867, 617 9, 642, 198	1, 489, 610, 779 220, 089, 704 12, 991, 794 36, 094, 787 13, 904, 429 15, 488, 544 1, 720, 665 28, 064, 120 18, 977, 743 66, 688, 695
Rhode Island South Carolina Tennessee All other states	2, 084, 594 41, 629, 901	9, 642, 198 161, 810, 106	1, 282, 847 29, 906, 080
Pillow tubing. Maine. Massachusetts. All other states.	1, 255, 673 780, 117	12, 112, 573 3, 958, 768 2, 562, 165 5, 591, 642	2, 555, 543 951, 494 558, 307 1, 045, 742
Print cloth Georgia Massachusetts North Carolina Rhode Island South Carolina All other states	4, 572, 909 55, 453, 265 11, 305, 894 4, 393, 942	997, 485, 012 23, 304, 176 373, 938, 032 70, 360, 345 26, 598, 962 450, 997, 849 52, 195, 648	122, 558, 328 3, 444, 589 41, 574, 384 7, 888, 751 3, 922, 444 59, 358, 990 6, 369, 170
Tobacco, cheese, butter, bunting, and bandage cloths	22, 350, 184 18, 362, 166 2, 110, 147 1, 877, 871	239, 866, 071 202, 401, 915 16, 331, 816 21, 132, 340	16, 976, 323 14, 016, 944 1, 323, 511 1, 635, 868
Lawns, nainsocks, cambrics, and similar muslins. Connecticut. Massachusetts Rhode Island. South Carolina. All other states.	53, 988, 370 5, 982, 699 29, 241, 009 10, 692, 052 4, 997, 600 3, 075, 010	417, 893, 406 52, 612, 464 243, 588, 824 65, 681, 875 33, 213, 842 22, 804, 401	79, 384, 890 9, 545, 224 43, 709, 594 17, 063, 716 5, 568, 197 3, 498, 159
Mosquito netting and tarlatan	3, 271, 283	34, 425, 807	3, 273, 376
Ginghams	77, 396, 286	368, 307, 601	85, 070, 745
Shirtings (not silk-striped) Connecticut	73,786,038 3,103,081 17,328,644 17,237,152 9,148,388 26,918,773	318, 263, 829 14, 726, 086 92, 952, 726 63, 223, 540 42, 097, 575 105, 264, 902	70, 969, 630 3, 877, 618 22, 713, 363 13, 564, 979 6, 788, 917 24, 024, 758
Shirtings (silk-striped) Massachusetts All other states	5,854,054 4,712,091 1,141,963	33, 865, 803 27, 974, 838 5, 890, 965	12, 379, 237 8, 032, 412 4, 346, 825
Pique (except shirtings)	16, 251, 948	78, 854, 827	23, 060, 460
Drills	117, 627, 118	314, 822, 109	73, 253, 640

Table 19.—Summary of Products for the Cotton-Goods Industry: 1919—Continued.

Industr	r: 1919—Con	tinued.	
PRODUCT AND STATE.	Pounds.	Square yards.	Value,
Woven goods—Continued. Twills and sateons	131, 537, 280	424, 478, 033	\$101,056,691
Ticks Massachusetts North Carolina All other states	18, 268, 115 4, 695, 133 6, 020, 389 7, 552, 593	53, 683, 485 13, 383, 379 21, 514, 757 18, 785, 349	13, 125, 054 3, 278, 548 4, 219, 857 5, 626, 649
Denims Massachusetts North Carolina All other states	87, 088, 323 10, 670, 136 37, 929, 123 38, 489, 064	166, 697, 695 18, 204, 837 70, 366, 740 78, 126, 118	56, 955, 503 7, 200, 483 25, 056, 848 24, 698, 172
Cotton flannel (canton flannel, flannelettes, and blanketings). Cottonades	82, 319, 178 6, 234, 880 2, 637, 269	268, 067, 853 13, 934, 761 7, 197, 280	60, 152, 426 4, 615, 925 8, 861, 549
Tire duck. Georgia. Massachusetts. New Jersey North Carolina. All other states.	128, 174, 168 10, 641, 430 42, 294, 670 24, 966, 174 4, 194, 172 46, 077, 713	123, 465, 422 11, 685, 777 39, 639, 018 22, 441, 049 3, 507, 853 46, 191, 725	143, 086, 211 9, 857, 878 45, 722, 608 33, 318, 980 4, 226, 078 49, 960, 667
Ounce duck (except tire)	122, 027, 248 46, 490, 641 4, 875, 125 5, 769, 751 17, 785, 414 47, 106, 317	178, 539, 527 56, 970, 661 8, 232, 194 9, 035, 790 31, 838, 893 72, 461, 089	70, 601, 255 28, 018, 483 3, 848, 918 2, 947, 153 8, 596, 326 27, 190, 375
Numbered duck (except tire) Georgia Massachusetts All other states	38, 329, 234 10, 047, 003 2, 086, 468 26, 195, 763	34, 495, 508 8, 537, 758 1, 972, 836 23, 984, 914	23, 395, 085 6, 003, 190 1, 415, 806 15, 976, 089
Tire fabrics, other than duck Massachusetts All other states	29, 916, 856 14, 567, 668 15, 349, 188	36, 805, 932 18, 647, 503 18, 158, 429	32, 601, 941 15, 261, 268 17, 340, 675
Canvas (except bagging)	11, 867, 754	11,784,013	7, 497, 732
Bags and bagging Bags (fabric woven in establishments reporting) Bagging	25, 656, 705 5, 755, 378 19, 901, 327	82, 433, 300 16, 182, 932 66, 250, 368	13, 139, 820 2, 849, 296 10, 290, 524
Tapestries	9, 625, 430	21, 705, 586	17, 295, 608
Plushes, velvets, and velveteens, cut or uncut. Pennsylvania. All other states.		20, 320, 759 6, 463, 830 13, 856, 929	22, 808, 885 11, 575, 008
Corduroys	12, 807, 454	19, 863, 021	11, 233, 877 13, 864, 668
Turkish towels and toweling. All other terry weaves. Towels and toweling, wash cloths, bath mats, wiping and polishing cloths (except pile fabrics).	16, 870, 538 573, 682	81, 505, 619 442, 443	14, 059, 007 418, 546
fabrics). Bedspreads and quilts (crochet, marseilles, and satin)	20, 753, 779 12, 700, 004	43, 217, 453 24, 071, 651	16,752,727 10,244,732
Cotton table damask in the piece or otherwise. North Carolina. Pennsylvania. All other states.	10, 543, 986 5, 885, 975 357, 843 4, 300, 148	27, 499, 294 16, 071, 805 952, 323 10, 475, 166	9, 544, 478 4, 544, 155 554, 302 4, 446, 021
Sheets and pilloweases	5, 018, 648	20, 816, 607	3, 368, 769
Cotton blankets	42, 320, 816 17, 407, 849 24, 912, 967	96, 620, 556 46, 470, 714 50, 149, 842	32, 639, 927 14, 615, 019 18, 024, 908
Cloths, filled or coated (window hollands, etc.)	833, 985	2, 459, 427	1, 115, 393
Cloth composed of cotton and silk or other vegetable fiber and silk (except silk-striped shirtings)			
Massachusetts	6, 692, 135 2, 625, 171 4, 066, 964	51, 404, 771 21, 143, 714 30, 261, 057	18, 587, 057 8, 192, 727 10, 394, 330
Fabrics made entirely from cot- ton waste. All other woven goods (over 12 inches in width)	3, 393, 629	4,539,734	1, 422, 451
	103, 114, 130	366, 505, 330	87, 827, 375
Yarns, for sale Made from cotton Made from cotton waste or lin- ters.	618, 034, 098 609, 208, 442 8, 825, 656		453, 624, 493 450, 314, 593
Phread.			3, 309, 900 55, 009, 176
l'wine 2	26, 441, 943 11, 860, 195		5, 935, 245
Bags to the value of \$8,478,833 is,629,537 of which represents the	value of bags m	reu in cotton mi ade principally f	us quring 1919 rom purchased

^{\$5,629,537} of which represents the value of bags made principally from purchased fabric and \$2,849,296 the value of bags made from fabric woven in the establishments.

2 In addition, in 1919, 23,405,520 pounds of cotton twine, valued at \$12,288,755, were reported by establishments engaged primarily in manufacturing cordage and twine, and linen goods.

TABLE 19.—SUMMARY OF PRODUCTS FOR THE COTTON-GOODS Industry: 1919—Continued.

PRODUCT AND STATE.	Pounds.	Square yards.	Value.
Cordage and rope 1	[\$2, 207, 245
Batting, wadding, and mattress felts	68, 516, 943		5, 629, 537 8, 481, 877
and rowing. Other manufactures of cotton waste.	4, 260, 437		1, 958, 379 1, 494, 515
Cotton waste, for sale Old bagging and ties from cotton			36, 331, 607
bales Georgia Massachusetts			2, 505, 078 280, 466 424, 416
North Carolina Rhode Island South Carolina			498, 515 247, 701 464, 192
All other states			589,788 6,081,962
All other products			56, 404, 300

¹ In addition, in 1919, 11,847,094 pounds of cotton cordage and rope, valued at \$6,119,785, were reported by establishments manufacturing cotton cordage and rope as a primary product.

² Hags to the value of \$8,478,833 were manufactured in cotton mills during 1919, \$5,629,537 of which represents the value of bags made principally from purchased fabric and \$2,849,295 the value of bags made from fabric woven in the establishments.

Products, by kind of loom.—The quantity and value of piece goods made on plain, dobby, and Jacquard looms in 1919 are shown in Table 20.

TABLE 20.—QUANTITY AND VALUE OF PIECE GOODS PRODUCED, BY KIND OF LOOM, IN THE COTTON-GOODS INDUSTRY: 1919.

	QUAN	Value.		
KIND OF LOOM.	Pounds.	Square yards.	varue.	
Total	1, 667, 470, 234	5, 972, 644, 159	\$1, 343, 285, 565	
Plain Dobby Jacquard	1,573,107,693 77,734,842 16,627,699	5,569,138,527 349,869,622 53,636,010	1, 221, 324, 230 92, 246, 392 29, 714, 943	

Cloth produced in cotton mills, according to width .-Table 21 shows, by states, the quantity, in pounds and square yards, and the value of cloth according to width, 12 to 40 inches and 40 inches and over, produced in cotton mills of the United States.

TABLE 21.—CLOTH PRODUCED IN COTTON MILLS, BY WIDTH AND BY STATES: 1919.

	WIDTH.									
STATE.	Over 1	2 inches and less the	ın 40.	40 inches and over.						
	Pounds.	Square yards.	Value.	Pounds.	Square yards.	Value.				
United States	1, 254, 728, 289	4,827,768,228	\$987, 422, 363	560, 220, 753	1, 489, 629, 756	\$ 502, 188, 416				
Connecticut. Georgia. Massachusetts. New Jersey.	25, 045, 542 131, 553, 555 253, 295, 403 10, 438, 021	119, 202, 357 364, 077, 383 1, 324, 120, 362 26, 851, 892	29, 086, 142 80, 313, 260 249, 240, 767 8, 767, 790	33, 834, 592 91, 976, 563 139, 019, 063 23, 390, 464	80, 042, 296 191, 944, 698 441, 828, 316 28, 284, 153	39, 442, 019 60, 412, 846 140, 670, 247 32, 461, 413				
New York. North Carolina. Pennsylvania. Rhode Island.	12, 177, 118 189, 471, 231 13, 488, 373 44, 598, 687	54, 291, 774 634, 834, 706 82, 585, 144 211, 292, 152	12, 711, 890 141, 429, 787 19, 592, 271 55, 425, 198	10, 756, 341 41, 671, 575 16, 829, 913 49, 963, 402	54, 482, 525 135, 011, 620 26, 289, 642 135, 497, 309	9, 509, 745 31, 058, 598 29, 089, 851 55, 752, 117				
South Carolina	23 934 005	1,163,380,923 48,658,883 115,968,021 732,504,631	178, 072, 017 12, 053, 944 26, 001, 119 174, 728, 188	36, 606, 567 1, 542, 060 9, 193, 045 105, 437, 168	120, 109, 846 4, 372, 462 33, 738, 532 238, 028, 357	26, 576, 011 987, 310 5, 590, 272 70, 727, 987				

Production of cotton yarn, according to counts, in different sections of the United States .- The quantity and counts of cotton yarn produced in the cottongrowing states and the New England states are compared in Table 22 for the cotton-goods industry in 1919 and 1914. Separate accounts are given for yarn which was produced for own consumption, that is, for further manufacture by the same establishment, and for varn produced for sale.

TABLE 22.—PRODUCTION OF COTTON YARN IN THE COTTON-GOODS INDUSTRY, FOR OWN CONSUMPTION AND FOR SALE, ACCORDING TO SECTION AND COUNTS OF YARN: 1919 AND 1914.

SECTION.	тот	AL.	NO. 20 AN (COA)		NO, 21 (MED)		NO. 41 AND OVER (FINE).		
	1919	1914	1919	1914	1919	1914	1919	1914	
United States	Pounds. 2, 346, 854, 120	Pounds. 2, 170, 578, 612	Pounds. 1, 122, 730, 389	Pounds, 989, 413, 874	Pounds. 1, 062, 731, 573	Pounds. 1, 026, 306, 852	Pounds. 161, 392, 158	Pounds. 154, 857, 886	
Produced for own consumption	1, 728, 820, 022	1,672,591,613	827, 960, 647	723, 039, 867	799, 071, 278	835, 349, 137	101, 788, 097	114, 202, 609	
Cotton-growing states ¹ New England states	992, 393, 711 660, 667, 167 75, 759, 144	875, 966, 854 716, 315, 733 80, 309, 026	584, 425, 098 199, 136, 684 44, 398, 865	445, 122, 841 224, 894, 501 53, 022, 525	393, 329, 145 376, 591, 384 29, 150, 749	418, 642, 419 392, 706, 715 24, 000, 003	14, 639, 468 84, 939, 099 2, 209, 530	12, 201, 594 98, 714, 517 3, 286, 498	
Produced for sale	618, 034, 098	497, 986, 999	294, 769, 742	266, 374, 007	263, 660, 295	190, 957, 715	59, 604, 061	40, 655, 277	
Cotton-growing states ¹ New England states All other states ²	359, 003, 634 208, 964, 523 50, 065, 941	303, 579, 577 143, 328, 525 51, 078, 897	210, 604, 312 52, 523, 953 31, 641, 477	182, 310, 358 47, 677, 120 36, 386, 529	119, 575, 965 127, 578, 605 16, 505, 725	108, 271, 960 69, 590, 392 13, 095, 363	28, 823, 357 28, 861, 965 1, 918, 739	12,997,259 26,061,013 1,597,005	

¹ The cotton-growing states included in this group are: 1919—Alabama, Arkansas, California, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, Texas, and Virginia; 1914—Alabama, Arkansas, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Texas, and Virginia;

1 All other states embrace: 1919—Illinois, Indiana, Maryland, Michigan, New Jersey, New York, Ohio, Pennsylvania, and Wisconsin; 1914—Delaware, Illinois, Indiana, Maryland, Missouri, New Jersey, New York, Ohio, Pennsylvania, and Wisconsin;

Table 23 presents statistics for the combined quan- | and for sale, distributed by sections and states.

Production of cotton yarn, according to counts .-- | tities of cotton yarn produced for own consumption

TABLE 23,—PRODUCTION OF COTTON YARN IN THE COTTON-GOODS INDUSTRY FOR OWN CONSUMPTION AND FOR SALE COMBINED, BY SECTION AND BY STATES (POUNDS): 1919, 1914, AND 1909.

TO COMPANY AND COMPANY		TOTAL.		NO. 20 A	AND UNDER,	COARSE.	NO. 21 TO 40, MEDIUM.			NO. 41 AND OVER, FINE.		
SECTION AND STATE.	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
United States	2,346,854,120	2,170,578,612	2,037,653,722	1,122,730,389	989, 413, 874	1,014,069,688	1,062,731,573	1,026,306,852	866,328,605	161, 392, 158	154, 857, 886	157, 255, 429
Cotton-growing states 1. New England states All other states	1,351,397,345 869,631,690 125,825,085	1,179,546,431 859,644,258 131,387,923	1,030,979,405 865,887,522 140,786,795	795,029,410 251,660,637 76,040,342	627, 433, 199 272, 571, 621 89, 409, 054	632, 941, 012 290, 135, 400 90, 993, 276	512, 905, 110 504, 169, 989 45, 656, 474	526, 914, 379 462, 297, 107 37, 095, 366	360, 871, 260 461, 030, 916 44, 426, 429	43, 462, 825 113, 801, 064 4, 128, 269	25, 198, 853 124, 775, 530 4, 883, 503	37,167,133 114,721,200 5,367,090
AlabamaConnecticutGeorgiaIndianaKentucky	50,067,406 303,413,106 5,084,233	118, 428, 585 49, 677, 573 265, 390, 106 6, 473, 165 10, 096, 078	230,771,195 10.871,116	237,678,100 3,686,757	11,813,929 186,842,933 5,123,407	188, 303, 084 4, 731, 055	65,401,731 1,397,476	21, 663, 655 78, 546, 918 1, 349, 758	0,140,061	997,902 12,898,651 333,275		4,460,214 16,052,785 365,990
Louisiana and Arkan- sas	14,146,221 72,001,282		73, 887, 722	' '	27,787,019	23, 826, 696				· ·	2,016,803	•
ware Massachusetts Mississippi	27,313,805 516,558,488 12,462,559	512, 325, 911	24,449,126 523,523,228 12,678,372	27,082,010 135,472,643 5,712,548	25, 755, 407 152, 209, 593 7, 136, 630	24,390,580 175,150,251 9,589,216	302,150,903 6,750,011	97, 806 276, 459, 727 4, 944, 191	58,546 283,053,920 3,089,156	231,795 78,934,942	83,656,591	65,319,057
New Hampshire New Jersey New York North Carolina	14,861,762 58,066,406	16,449,512 54,606,346	122,469,975 14,658,395 60,403,324 808,604,753	4,943,115 25,701,461	. 26, 218, 868	31, 215, 894	31,602,266	50,872,404 4,100,623 27,465,668 166,856,241	51,389,977 3,818,197 28,391,604 116,466,984	2,941,770 762,679	3,772,917 921,810	795,826
Pennsylvania Rhode Island South Carolina Tennessee	113,972,156 333,645,182	92, 183, 985 321, 112, 519	22, 636, 781 93, 406, 528 284, 657, 472 26, 311, 310	15,012,723 118,450,498	98, 527, 100	125, 098, 888	80,177,487 198,780,646	59,065,905 212,373,172	143,722,335	18,781,946 16,414,041 1,015,917	175,000 21,103,257 10,212,247	759, 353 25, 097, 305 15, 836, 246 50, 000
TexasVermontVirginiaAll other states 2	4,032,925 44,072,763	4,808,417 34,611,243	32,927,615	20,320 22,329,234	16,977,175	22, 891, 774	2,637,219	3,624,635	2,576,490 3,594,842 10,035,841 2,272,172	275,000	292, 986	764, 176 195, 62

¹ The cotton-growing states included in this group are: 1919—Alabama, Arkansas, California, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, outh Carolina, Tonnessee, Texas, and Virginia; 1914 and 1909—Alabama, Arkansas, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Texas, and Virginia.

² All other states embrace: 1919—California, Illinois, Michigan, Missouri, Ohio, and Wisconsin; 1914—Illinois, Missouri, and Wisconsin; 1909—Illinois, Kansas, Missouri, and Wisconsin.

Cotton yarn, per cent distribution, according to size | and section.—Table 24 shows in percentages, for 1919,

of the various sizes of cotton yarn produced in the cotton-goods industry as distributed between the 1914, and 1909, the aggregate and relative quantity | cotton-growing states and the New England states.

TABLE 24.—COTTON YARN IN THE COTTON-GOODS INDUSTRY, PER CENT DISTRIBUTION BY SECTION AND SIZE OF YARN, AND PER CENT OF INCREASE (BASED ON THE COMBINED PRODUCTION IN POUNDS OF YARN FOR OWN CONSUMPTION AND FOR SALE): 1919, 1914, AND 1909.

		TOTAL.			COARSE.			MEDIUM.			FINE.	
SECTION.	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
	······································	······································			PER	CENT OF	AGGREGATI	ē.			×	
United States	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Cotton-growing states. New England states All other states	57. 6 37. 0 5. 4	54.3 39.6 6.1	50. 6 42. 5 6. 9	70.8 22.4 6.8	63. 4 27. 6 9. 0	62.4 28.6 9.0	48.3 47.4 4.3	51.3 45.1 3.6	41.7 53.2 5.1	26. 9 70. 5 2. 6	16. 3 80. 6 3. 1	23.6 73.0 3.4
	RELATIVE PER CENT.											
United States	100.0	100.0	100.0	47.8	45.6	49.8	45.3	47.3	42.5	6.9	7.1	7.7
Cotton-growing states. New England states. All other states.	100. 0 100. 0 100. 0	100.0 100.0 100.0	100.0 100.0 100.0	58.8 28.9 60.4	53. 2 31. 7 68. 1	61.4 33.5 64.6	38.0 58.0 36.3	44.7 53.8 28.2	35.0 53.2 31.6	3. 2 13. 1 3. 3	2.1 14.5 3.7	3.6 13.3 3.8
		<u> </u>	<u></u>	,	PE	CENT OF	INCREASE	,1				
 	1914- 1919	1909- 1919	1909- 1914	1914- 1919	1909- 1919	1909- 1914	1914- 1919	1909– 1919	1909- 1914	1914- 1919	1909- 1919	1909- 1914
United States	8.1	15.2	6. 5	13. 5	10.7	-2.4	3.5	22.7	18.5	4.2	2.6	-1.5
Cotton-growing states. New England states. All other states.	14. 6 1. 2 -4. 2	31. 1 0. 4 -10. 6	14.4 -0.7 -6.7	26.7 -7.7 -15.0	25.6 -13.3 -16.4	-0.9 -6.1 -1.7	-2.7 9.1 23.1	42.1 9.4 2.8	46.0 0.3 -16.5	72.5 8.8 15.5	16.9 -0.8 -23.1	-32.2 8.8 -9.0

Production of cotton yarn with quantity produced for own consumption and for sale, by states.—The production of cotton yarn, by counts and quantity, is shown in Table 25, by states, for 1919. Statistics for

yarn produced for further manufacture by the same companies reporting, and the yarn produced for sale only, are presented separately.

TABLE 25.—PRODUCTION OF COTTON YARN IN COTTON-GOODS INDUSTRY, BY COUNTS AND BY STATES: 1919.

STATE.	Total.	20 and under.	21 to 40.	41 to 60.	61 to 80.	81 to 100.	101 to 120.	121 and over.
United States Produced for own consumption Produced for sale	Pounds. 2, 346, 854, 120 1, 728, 820, 022 618, 034, 098	Pounds. 1,122,730,389 827,960,647 294,769,742	Pounds. 1,062,731,573 799,071,278 263,660,295	Pounds. 124, 928, 902 79, 328, 307 45, 600, 595	Pounds. 23,172,598 12,168,672 11,003,928	Pounds. 10, 801, 999 8, 416, 513 2, 385, 486	Pounds. 2,133,868 1,543,571 590,297	Pounds. 354,791 331,034 23,757
labama. Produced for own consumption Produced for sale	137, 737, 574 106, 029, 226 31, 708, 348	106, 253, 776 86, 642, 304 19, 611, 472	30,485,896 19,386,922 11,098,974	837, 139 837, 139	160,763 160,763			
rkansas	805,745 805,745	805, 745 805, 745			***********	· · · · · · · · · · · · · · · · · · ·		
connecticut Produced for own consumption Produced for sale	50, 067, 406 36, 583, 577 13, 483, 829	12, 309, 030 8, 574, 360 3, 734, 670	24, 859, 725 18, 008, 167 6, 851, 558	8,750,589 6,444,797 2,305,792	1,991,564 1,853,821 137,743	1,637,033 1,291,332 345,701	379, 730 282, 240 97, 490	139,73 128,866 10,87
Heorgia	303, 413, 106 226, 759, 197 76, 653, 909	237, 678, 100 172, 556, 859 05, 121, 241	65, 401, 731 53, 869, 063 11, 532, 668					
llinois. Produced for own consumption	4, 528, 901 1, 370, 616 3, 158, 285	3,402,369 1,091,746 2,310,623	934, 507 278, 870 655, 637				!	
ndiana Produced for own consumption Produced for sale	5, 084, 233 4, 986, 210 98, 023	3,686,757 3,588,734 98,023	1,397,476 1,397,476				1	
Kentucky	7, 952, 409 4, 117, 297 3, 835, 112	7,666,803 4,117,297 3,549,506	285, 606 285, 606				1	l .
California. Produced for own consumption. Produced for salo.		6, 180, 526 6, 180, 528						
Louisiana. Produced for own consumption Produced for sale.	13,340,476 11,181,230 2,159,246	13,340,476 11,181,230 2,150,246					}	1
Maine. Produced for own consumption Produced for sale.	72,001,282 63,267,166 8,734,110	19, 480, 473 15, 253, 588 4, 228, 885	51, 128, 975 47, 157, 147 3, 971, 828	1, 186, 508 656, 105 530, 403			1	
Maryland Produced for own consumption Produced for sale.		27, 082, 010 26, 804, 034 277, 976		231, 795				
Massachusetts Produced for own consumption. Produced for sale.	,	135, 472, 643 97, 975, 999 37, 496, 644	302, 150, 903 206, 200, 543 95, 950, 360	65, 265, 000 47, 209, 613 18, 055, 387	9,603,405 6,753,844 2,849,561		729, 429 714, 549 14, 880	91, 20 89, 58 1, 62
Michigan Produced for own consumption. Produced for sale.		598,029 598,029	1					
M'ssissippi Produced for own consumption. Produced for sale	12, 462, 559 10, 407, 236 2, 055, 323	5,712,548 4,595,458 1,117,090	ſ			1	1	1
Missouri		5, 463, 851 5, 463, 851			 			
New Hampshire. Produced for own consumption. Produced for sale	112,999,433 109,187,550	69, 385, 442 68, 999, 148 366, 294	43, 215, 680 39, 961, 818 3, 253, 862	392, 381 200, 654 191, 727	25, 930			
New Jersey. Produced for own consumption. Produced for sale		4, 943, 115 4, 408, 122 534, 993	6,976,877 5,409,735 1,567,142		433,768			
New York. Produced for own consumption. Produced for sale		25, 701, 461 25, 701, 461	31,602,266 21,033,108 10,569,158	762,679 762,679	1	200, 112		
North Carolina. Produced for own consumption Produced for sale.	, , ,	230, 488, 903 132, 851, 730 97, 637, 173	172,014,540 94,060,680 77,953,860	17,378,049 826,167 16,551,882			1	i .
Ohio Produced for own consumption Produced for sale	, , , , , , , , , , , , , , , , , , , ,	598,029 598,029	11,890,800					
Pennsylvania. Produced for own consumption. Produced for sale	13, 820, 789	9, 075, 441 6, 557, 040 2, 518, 401	1		1		l	
Rhodo Island. Produced for own consumption. Produced for sale	113,972,156		80,177,487 62,626,490 17,550,997	12,387,680 10,190,367 2,197,313	2, 450, 612 2, 226, 764 223, 858	l	1 '	1
South Carolina. Produced for own consumption				1		1,400,105	{	1

TABLE 25.—PRODUCTION OF COTTON YARN IN COTTON-GOODS INDUSTRY, BY COUNTS AND BY STATES: 1919—Continued.

STATE	Total.	20 and under.	21 to 40.	41 to 60.	61 to 80	81 to 100.	101 to 120.	121 and over.
Tennessee. Produced for own consumption. Produced for sale.	Pounds. 32, 195, 948 21, 797, 139 10, 398, 809	Pounds. 18, 280, 883 15, 058, 918 3, 221, 965	Pounds. 12,899,148} 6,738,221 6,160,927	Pounds. 550,869	Pounds. 465,048 465,048	Pounds.	Pounds.	Pounds.
Texas. Produced for own consumption. Produced for sale.	27, 197, 073 25, 733, 692 1, 463, 381	22, 378, 070 21, 525, 276 852, 794	4,819,003			.		
Vermont	4, 032, 925 4, 032, 925	20, 328 20, 326	2,637,219 2,637,219	1,095,300 1,095,300		280,080 280,080	,	
Virginia		22, 329, 234 21, 384, 678 944, 556	21, 468, 529 20, 718, 119 750, 410	275,000 275,000				
Wisconsin Produced for own consumption. Produced for sale	953,131 753,131 200,000	753,131	· · · · · · · · · · · · · · · · · · ·					

Dyeing and finishing in connection with the cottongoods industry.—Table 26 gives, by states, the total number of establishments, engaged primarily in the manufacture of cotton goods, and shows the number which convert their own goods, convert for others, or do custom spinning or weaving, for 1919 and 1914.

Table 26.—ESTABLISHMENTS IN THE COTTON-GOODS INDUSTRY, DYEING AND FINISHING, OR DOING CONTRACT WORK: 1919 AND 1914.

STATE.	TOTAL B	UMBER,	BLEA	CHING, I		, OR	cus	ING TOM		momut a		Į	CHING, PRINTI		, OR	CAR	ING TOM
STATE.	TOTAL I	OR BEIL	Their goo		For o	SPINNING OR OR OR STATE.		1 1	TOTAL NUMBER.		Their own goods.		For others.		SPINNING OR WEAVING,		
	1919	1914	1919	1914	1919	1914	1919	1914		1919	1914	1919	1914	1910	1914	1919	1914
United States 1	1, 452	1,287	282	268	39	36	63	46	New Jersey New York.	39 52	21 41	11 14	8	5	4		1
Alabama Connecticut Georgia Maine Massachusetts New Hampshire	52 132 14	57 44 118 15 189 16	5 13 16 4 55	6 12 15 5 48 8	3 3 1 9 3	1 1 10 2	2 6 5 2 15 3	2 2 2 15	North Carolina Pennsylvania Rhode Island South Carolina All other states	311	293 142 93 148 110	57 32 28 14 24	8 12 31 37 22 13 21	5 4 3	4 6 1 2	13 8 2 2	5 11 5

¹ Includes cotton small wares.

Spindles and looms.—The number of spindles in operation during 1919, 1914, 1909, and 1904 is shown for the cotton-goods industry in Table 27. Separate statistics are presented in this table for the number of

frame and mule spindles according to location in New England and the cotton-growing states as well as for each important state in the United States.

TABLE 27.—ACTIVE PRODUCING SPINDLES IN THE COTTON-GOODS INDUSTRY: 1919, 1914, 1909, AND 1904.

					CENSUS ?	YEAR AND	CLASS OF SPI	NDLE.				
STATE.		1919			1914			1909	,	1904		
	Total.	Frame.	Mule.	Total.	Frame.	Mule.	Total.	Frame.	Mule.	Total.	Frame.	Mule.
United States	33,718,953	30, 578, 703	3, 140, 250	30, 815, 731	27,123,236	3, 692, 495	27, 395, 800	22,679,006	4,718,794	23, 155, 613	17,933,758	5, 221, 857
New England states Cotton-growing states ¹ All other states	17,542,926 14,568,272 1,607,755	14,963,306 14,487,712 1,177,685	2,579,620 130,560 430,070	16,748,058 12,440,700 1,620,973	13,693,693 12,340,678 1,088,865	3,054,365 100,024 538,106	15, 383, 909 10, 222, 472 1, 789, 419	11,663,203 10,046,526 969,277	3,720,706 175,946 820,142	13, 911, 241 7, 494, 905 1, 749, 467	9,763,951 7,300,053 869,752	4, 147, 290 194, 852 879, 715
Alabama Connecticut Georgia. Indiana Kontucky	1, 108, 933 1, 256, 776 2, 459, 143 81, 256 85, 836	1, 106, 933 870, 510 2, 405, 333 81, 256 74, 916	2,000 386,266 53,810	998, 836 1, 276, 148 2, 043, 386 80, 256 81, 864	995, 426 860, 572 1, 998, 668 80, 256 70, 944	3,410 406,576 44,718 10,920	885, 803 1, 241, 524 1, 747, 483 119, 568 72, 956	\$82,803 818,074 1,677,987 110,616 62,036	3,000 423,450 69,496 8,952 10,920	758, 087 1, 149, 915 1, 316, 573 119, 252 76, 192	751,087 702,439 1,247,301 101,184 55,072	7,000 447,478 69,272 18,008 21,120
Louisiana Maine Maryland Mussachusetts Mississippi	91,684 1,091,991 117,154 11,206,855 158,802	91, 684 1, 049, 831 110, 914 9, 658, 340 158, 802	42,160 6,240 1,548,515	46,456 1,098,142 120,530 10,556,867 120,186	46,456 1,012,718 120,530 8,690,775 120,186	85,424 1,866,092	59,556 1,020,688 133,302 9,372,364 153,804	59, 556 859, 372 133, 302 7, 282, 153 153, 004	161, 316 2, 090, 211 800	59,052 891,246 133,672 8,411,249 125,352	56,552 667,522 133,672 6,082,189 125,352	2,500 223,724 2,829,060
New Hampshire. New Jersey. New York. North Carolina.	1,333,797 402,263 741,618 4,622,714	1,322,277 159,841 664,886 4,594,508	11, 520 242, 422 76, 732 28, 206	1,340,753 443,938 671,077 3,703,482	1, 296, 485 164, 907 544, 424 3, 678, 666	44,268 279,031 126,653 24,816	1,318,932 420,784 777,980 2,908,383	1, 164, 386 107, 381 417, 978 2, 849, 865	154, 546 313, 403 360, 002 58, 518	1,301,281 436,764 704,634 1,880,950	1,032,205 87,960 328,132 1,814,190	269, 076 348, 804 376, 502 66, 760
Pennsylvania	4, 949, 225 329, 337	106,328 1,931,324 4,947,065 311,073	89,511 580,959 1,560 18,264	212,088 2,339,844 4,552,048 281,996	97, 522 1, 698, 039 4, 548, 388 271, 990	114,566 641,805 3,660 10,000	252,559 2,338,689 3,754,251 225,638	131,214 1,463,346 3,731,039 215,638	121,345 875,343 23,212 10,000	266, 097 2, 049, 522 2, 864, 092 153, 375	145,758 1,199,284 2,848,980 143,375	120,341 850,238 15,112 10,000
Texas. Vormont. Virginia. All other states.	131,454 141,224 560,280 140,489	115, 054 131, 024 560, 280 125, 324	15,800 10,200 15,165	106, 236 136, 304 499, 144 108, 150	106, 236 126, 104 496, 644 88, 294	10,200 2,500 17,856	97, 628 91, 712 316, 970 85, 226	97, 628 75, 872 316, 970 68, 786	15,840 16,440	68,170 108,028 193,062 89,048	68, 170 80, 312 189, 974 73, 048	27, 716 3, 088 16, 000

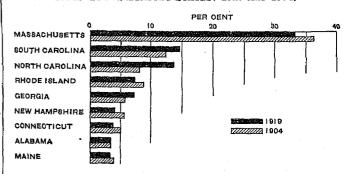
¹ Includes Alabama, Arkausas, California, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, Texas, and Virginia.

Active spindles-1919 and 1904.—In Table 28 the states engaged in the manufacture of cotton goods are arranged in the order of their importance according to the number of active cotton spinning spindles in 1919. Only states having a million or more spindles in operation during 1919 are shown, the remaining states being grouped as "All other states." The progress, by states, for this industry, based on spindles, is shown for the 15-year period 1904 to 1919. The table gives the per cent distribution of spindles for each state in 1919 and 1904, and is illustrated by the first diagram which follows. The relative per cent of increase for each state is shown in the table and also in the second diagram accompanying the table. In addition, the table gives the per cent distribution of the total increase of spindles, by states.

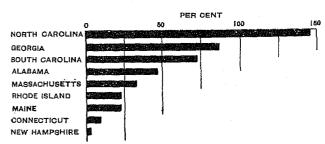
Table 28.—Active Cotton Spindles in the Cotton-Goods Industry: 1919 and 1904.

	1010	1904	PER (DISTRIE		Per cent of total	Per cent of in-
STATE.	1919			1904	in- crease, 1904– 1919.	crease, 1904- 1919.
United States	33, 718, 953	23, 155, 613	100.0	100.0	100.0	45.6
Massachusetts. South Carolina. North Carolina. Rhode Island. Georgia.	11, 206, 855 4, 949, 225 4, 622, 714 2, 512, 283 2, 459, 143	8, 411, 249 2, 864, 092 1, 880, 950 2, 049, 522 1, 316, 573	33. 2 14. 7 13. 7 7. 5 7. 3	36.8 12.4 8.1 8.9 5.7	26.5 19.7 26.0 4.4 10.8	33. 2 72. 8 145. 8 22. 6 86. 8
New Hampshire. Connecticut. Alabama. Maine. All other states.	1,333,797 1,256,776 1,108,933 1,091,991 3,177,236	1, 801, 281 1, 149, 915 758, 087 891, 246 2, 532, 698	4.0 3.7 8.3 3.2 9.4	5.6 5.0 3.3 3.8 10.9	0.3 1.0 3.3 1.9 6.1	2. 5 9. 3 46. 3 22. 5 25. 4

COTTON GOODS—PER CENT DISTRIBUTION OF ACTIVE COTTON SPINDLES FOR LEADING STATES: 1919 AND 1904.



COTTON GOODS—PER CENT OF INCREASE IN ACTIVE COTTON SPINDLES FOR LEADING STATES: 1919.



Active producing spindles, by geographic division.— Table 29 gives a distribution, according to geographic divisions, of the number of active producing cotton spindles in the cotton-goods industry for 1919, 1914, and 1909.

Table 29.—Active Producing Spindles in the Cotton-Goods Industry, by Geographic Divisions: 1919, 1914, and 1909.

			Í	INCREASE.2			
DIAISIOM'1	1919	1914	1909	1914- 1919	1909- 1914		
United States	33,718,953	30, 815, 731	27, 395, 800	2, 903, 222	3,419,931		
New England Middle Atlantic North Central South Atlantic East South Central West South Central All other	17,542,926 1,339,720 179,745 12,708,516 1,682,908 230,138 35,000	16,748,058 1,327,103 171,980 10,925,950 1,482,882 159,758	15, 383, 909 1, 451, 323 183, 680 8, 867, 749 1, 338, 201 170, 938	794, 808 12, 617 7, 705 1, 782, 566 200, 026 70, 380 35, 000	1,364,149 -124,220 -11,700 2,058,201 144,681 -11,180		

The states comprising each division are shown in Table 31.
 A minus sign (-) denotes decrease.

Idle spindles.—Table 30 shows for the combined industries—cotton goods, cotton small wares, and cotton lace—the number of frame and mule spindles which were idle in each state during 1919 as compared with 1914.

Table 30.—Idle Spindles in the Cotton-Manufactures Industry: 1919 and 1914.

			IDLE SPI	NDLES,			
STATE.	To	tal.	Fra	me.	Mule.		
	1919	1914	1919	1914	1919	1914	
United States.	623, 188	730, 220	473, 320	492,319	149,868	237, 901	
Alabama Arkansas Connecticut Georgia Indiana	7, 256 87, 978 29, 205 5, 448	9,572 6,808 28,613 35,007 9,248	2,656 64,554 29,205 5,448	7,732 6,808 10,809 35,007 9,248	4,600 23,424	1,840 17,804	
Louisiana	2,040 231,246 12,738	25,000 176 20,590 319,085	600 195,176 12,738	25,000 176 20,590 223,362	1,440 36,070	95,723	
New Hampshire New Jersey New York North Carolina	9,445 47,270 39,438	10,446 1,291 42,303 33,061	9,445 9,260 35,838	10, 446 278 21, 044 32, 741	38,010 3,600	1,013 21,259 320	
Pennsylvania Rhode Island South Carolina Tennessee	22,141 56,539 37,612 3,392	10,532 125,104 30,320 600	12,384 27,072 36,512 3,392	1,344 34,590 39,320 600	9,757 29,467 1,100	9,188 90,514	
Texas Vermont Virginia All other states	31,440	10,000 3,240	29,040	224 10,000 3,000	2,400	240	

Doubling and twisting spindles.—Table 31 relates to doubling and twisting spindles, which are not included with statistics on spinning, or producing spindles as they are sometimes called. The number of doubling and twisting spindles used in 1919, 1914, and 1909 are shown by geographic divisions and by states.

Consumption of cotton per spindle.—Table 32 gives the number of pounds of cotton consumed per spindle since 1889 for the United States and for each of the principal states—1919 and 1914—engaged in cotton manufactures. The amount of cotton consumed per spindle varies inversely with the counts of yarn produced.

Relation of spindles to wage earners and wages.—In Table 33 the number of spindles per wage earner and the wages for the entire industry per spindle are shown for each census year since 1879.

TABLE 31.—DOUBLING AND TWISTING SPINDLES IN THE COTTON-MANUFACTURES INDUSTRY: 1919, 1914, AND 1909.

DIVISION AND STATE,	1919	1014	1909
United States	2,893,972	2,399,920	. 2,061,603
NEW ENGLAND	1,486,505	1,204,444	085,648
Maine New Hampshire	37, 288	26,424	24, 570
Vermont	54, 910 220	46, 278 220	42, 162 220
Massachusetts	842,354	747,994	548, 957
Rhode Island	379, 580	246, 928	226, 373
Connecticut	172, 153	137,600	143,366
MIDDLE ATLANTIC	272, 195	258,800	249.410
New York	17, 467	26,631	33,110
New Jersey Pennsylvania	229, 714 25, 014	209, 928	192,676
Founsylvama	20, Q14	22, 241	23,624
NORTH CENTRAL	10,056	4,698	3,968
Ohio.	3,780	180	1,600
Indiana Illinois	936 3,144	416 2,306	560
Wisconsin	1,400	1,000	1,000
Missouri	796	796	808
SOUTH ATLANTIC	992, 924	794, 998	707, 109
Maryland	32, 352	49.718	42,444
Virginia	1,056	5, 136	300
North Carolina	578,671 136,148	439, 272 131, 660	358, 415 139, 224
Georgia	244,697	169, 212	166,726
-		, · · ·	
SOUTH CENTRAL	125, 432	136, 980	115,468
Kentucky Tennessee	3,500 36,170	5,050 24,754	1,792 22,588
Alabama	73,254	94.270	75, 484
Mississippi	7, 320	7,860	7,680
Arkansas	208	200	3,000
Louislana Texas	3,372 1,608	192 4,648	192 4,732
ł		3,010] *,
All other states	1,900		

TABLE 32.—COTTON CONSUMED PER SPINDLE IN COTTON MANUFACTURES, UNITED STATES AND LEADING STATES.

STATE.	Quantity (pounds).
United States: 1919 1014 1009 1904 1899	80, 8 81, 85, 80, 1 96, 4	70 15 90 41
	1919	1914
Leading states: New England— Massachusetts. New Hampshire. Rhode Island. Southern— Alabama. Georgia. North Carolina South Carolina	59. 08 90. 55 54. 78 135. 58 138. 49 104. 32 76. 70	59. 13 105. 47 50. 98 128. 82 141. 36 112. 94 81. 92

Table 33.—Relation of Spindles to Wage Earners and Wages: 1919, 1914, 1909, 1904, 1899, 1889, and 1879.

	COTTON-MANUFACTURES INDUSTRY.										
YEAR.	Wage earners (average number).	Wages,	Number of active producing spindles.	Number of spin- dles per wage earner.	Wages per spindle,						
1919. 1914. 1909. 1904. 1889. 1889.	446, 852 393, 404 378, 880 315, 874 302, 861 218, 870 172, 544	\$398, 723, 712 152, 422, 599 132, 859, 145 96, 205, 796 80, 689, 752 66, 024, 538 42, 040, 510	33,795,681 30,915,489 27,425,608 23,195,143 19,050,952 14,188,103 10,653,435	75. 73 78. 58 72. 39 73. 43 62. 90 64. 82 61. 74	\$10, 90 4, 93 4, 84 4, 15 4, 55 4, 65 3, 95						

Cotton goods—number and capacity of mills, by states and geographic divisions.—The statistics presented in Table 34 show that the cotton-goods industry in the United States consists largely of mills doing spinning and weaving in the same establishment. The extent of this practice is shown, by geographic divisions and by states, for 1919, 1904, and 1899.

TABLE 34.—COTTON GOODS—NUMBER AND CAPACITY OF SPINNING MILLS, WEAVING MILLS, AND MILLS WHICH DO BOTH SPINNING AND WEAVING, BY STATES AND GEOGRAPHIC DIVISIONS: 1919, 1904, AND 1899.

			SPIN	NING AND WEAVING	MILLS.	SPIN	NÍNG MILLS.	WEAVI	NG MILLS.	Numbe of estab lish-
division and state.	Census year.	Number of estab- lish- ments.	Number.	Capaci Number of spindles.	Number of looms.	Number.	Capacity, number of spindles.	Number.	Capacity, number of looms.	ments having no spindle or loom for spinnin or weavin
United States	1919 1904 1899	1,288 1,077 973	63,2 590 502	27,050,718 19,171,542 15,882,095	673, 017 522, 301 432, 959	409 295 274	7, 280, 639 3, 984, 071 3, 126, 257	180 169 168	19,152 18,609 17,723	
EW ENGLAND	1919 1904 1899	346 308 332	214 220 223	14,827,162 12,097,602 11,233,326	369, 036 319, 711 295, 710	66 53 76	3, 101, 412 1, 813, 639 1, 617, 661	34 20 17	4,676 4,347 3,175	
Maine	1919 1904 1899	14 15 15	13 13 13	1,087, 223 886, 914 837,021	28, 822 24, 050 23, 229	1 1 1	6,808 4,332 4,500	i	139 137	
New Hampshire.	1919 1904 1899	16 25 23	13 21 20	1,326,598 1,284,289 1,235,907	39,747 36,115 35,123	1 3 3	16,644 16,992 7,648			
Vermont	1919 1904 1899	4 4 5	4 3 3	141, 224 106, 108 81, 576	3,304 2,539 2,099	1 2	1,920 18,452			
Massachusetts	1919 1904 1899	. 191 142 163	114 105 110	9,302,859 7,295,418 6,712,998	223, 980 191, 507 176, 554	39 22 36	2, 135, 242 1, 115, 831 1, 071, 689	17 8 10	1,399 3,179 2,726	
Rhode Island	1919 1904 1899	74 78 71	43 46 44	1,908,834 1,641,870 1,469,404	48, 473 44, 735 39, 366	14 14 20	658,388 407,652 411,218	12 9 3	2,448 998 106	
Connecticut	1919 1904 1899	47 49 55	27 32 33	1,060,424 883,003 896,420	24,710 20,705 19,339	11 12 14	284,330 206,912 104,154	5 2 3	829 31 206	
fiddle Atlantic	1919 1904 1899	188 191 208	19 24 34	694, 697 752, 710 896, 538	16, 052 16, 267 20, 477	26 29 28	705, 250 654, 785 562, 097	126 132 134	11,305 12,517 12,109	
New York		37 30 34	6 9	509, 812 573, 522 626, 040	11, 029 11, 857 14, 110	11 7	231, 806 131, 112	_	1,010 607 435	
New Jersey	1919 1904 1899	33 17 20	5 4 3	87, 685 71, 648 101, 688	2, 123 1, 745 1, 576	4 5 4	365, 116	21 7 10	2,142 492 650	1.
Pennsylvania	1919 1904 1899	118 144 154	11	97, 200 107, 840 168, 810	2,900 2,665 4,791		158, 557	95 113 114	8, 153 11, 418 11, 024	1
NORTH CENTRAL	1919 1904 1899	26 14 14	.] 8	180, 556 174, 292 182, 864	3, 524 4, 583 4, 761	4 1	2,112	3 4 3	74 469 172	
Ohio	. 1919 1904 1899	5 3 3	1	15, 910	42		-	1 2 2	6 400 158	i I
Indiana	- 1919 1904 1899	4 5	4 5 4	86, 704 119, 252 102, 488	2, 110 3, 165 2, 712					
Illinois	1919 1904 1899	7 2 1	1	33, 168	600 748	2	29,352	3 i	is	
Michigan 1	. 1919	3	1	15, 910	45					
Wisconsin	1919 1904 1899	8	1	11,024 21,496	314 577	; 	3,720 2,115	2 1 1	68 50 14)
Missouri	1919 1904 1899	1 1	1	28, 864 12, 016 11, 904	730 350 350	3	1,750			

¹ No establishments reported for 1904 and 1899.

² No establishments reported for 1919 and 1904.

TABLE 34.—COTTON GOODS—NUMBER AND CAPACITY OF SPINNING MILLS, WEAVING MILLS, AND MILLS WHICH DO BOTH SPINNING AND WEAVING, BY STATES AND GEOGRAPHIC DIVISIONS: 1919, 1904, AND 1899—Continued.

	}		SPI	NNING AND WEAVIN	G MILLS.	SPIN	NING MILLS.	WEAV	ING MILLS.	Numb of esta
DIVISION AND STATE.	Census	Number of estab-		Capaci	ty.		·			lish- ments havin
DIVISION AND STATE.	year.	lish- ments.	Number.	Number of spindles.	Number of looms.	Number.	Capacity, number of spindles.	Number.	Capacity, number of looms.	spindle or loon for spinnin or weavin
OUTH ATLANTIC	1919 1904 1899	612 465 349	324 274 193	9,859,135 5,118,477 2,908,677	247, 768 154, 283 93, 433	269 177 142	2,955,636 1,277,424 787,092	15 13 14	2,872 1,276 2,267	
Delaware 1	1904 1899	1 3	1 2	7,552 21,552	238 738	i	13,000			
Maryland	1919 1904 1899	14 12 14	6 7 10	117, 154 133, 672 154, 064	1,421 2,159 2,509			7 5 4	1, 106 567 301	
Virginia	1919 1904 1899	10 10 7	9 3 7	554,680 158,140 126,827	13,325 5,429 4,608	1 6	5,600 34,922	i	35	
West Virginia 2	1899	1						1	19	
North Carolina	1919 1904 1899	311 212 177	107 100 75	2,525,504 1,148,716 649,442	70, 874 42, 545 23, 992	199 104 94	2,136,648 732,234 483,990	4 7 8	664 674 1,477	
South Carolina	1919 1904 1899	145 127 80	120 96 57	4,750,507 2,618,194 1,304,181	115, 890 72, 702 42, 193	22 31 22	236, 330 245, 898 127, 168	2 1	1,042 470	
Georgia	1919 1904 1899	132 103 67	82 67 42	1,911,290 1,052,203 652,611	46,258 31,210 19,393	47 36 25	577, 058 264, 370 162, 934	2	60	
DUTH CENTRAL	1919 1904 1899	114 98 68	66 63 41	1,454,168 1,017,961 633,378	36, 128 27, 157 17, 858	44 35 27	485, 264 236, 111 157, 657	1	165	
Kentucky	1919 1904 1899	6 4 6	1 1 2	49, 504 47, 072 37, 592	1,350 1,292 991	3 3 4	39,332 29,120 29,041		G	
Tennessee	1919 1904 1899	16 16 17	7 8 9	206,771 116,275 97,558	5,471 3,008 2,995	9 8 8	125,958 37,100 26,338			
Alabama	1919 1904 1899	58 46 31	30 28 18	845, 087 617, 714 825, 560	19,738 15,659 8,549	27 18 13	271, 102 140, 373 85, 768	1	159	
Mississippi	1919 1904 1899	15 14 6	11 12 5	137,764 113,544 73,872	3,883 3,472 2,404	3 2 1	33,776 11,808 1,250			
Arkansas	1919 1904 1899	1 2 2	1 1 2	7,000 7,124 9,700	133 240 257	1	6,720			
Louislana	1919 1904 1899	3 3 2	2 2 2	86, 684 55, 752 55, 600	2,018 1,600 1,584	1 1	5,000 3,300			
Texas	. 1919 1904 1899	15 13 4	14 11 3	121, 358 60, 480 33, 496	3,535 1,886 1,018	1 2 1	10,096 7,690 15,260			
OUNTAIN AND PACIFIC	1919 1904 1899	2 1 2	1 1 2	35,000 10,500 27,312	509 300 720			1	60	
Colorado 2	1899	1	1	17,812	480			1		
California	1919 1919 1904 1899	1 1 1 1	1 1 1	35,000 10,500 10,000	509 300 240			1	60	

¹ No establishments reported for 1919.

Number of looms, by width.—The number of looms in the United States which were active during the years 1919 and 1914 are shown in considerable detail for the cotton-goods industry in Table 35. The figures are given in this table for the number of webbing and

ribbon looms reported for 1919 as operating in connection with this industry.

Looms, by kinds and by states.—Statistics similar to those in the foregoing table are shown in Table 36 with a distribution of types of looms according to states.

² No establishments reported for 1919 and 1904.

No establishments reported for 1904 and 1899.

TABLE 35.—NUMBER OF LOOMS IN THE COTTON-GOODS INDUSTRY, BY WIDTH: 1919 AND 1914.

				WIDTH.								WIDTH.			
LOOM.	Cen- sus year.	Total.	Nar- row, less than 32 inches.	Broad, 32 but less than 42 inches.	Special, 42 inches and over.1	Domes- tic make.	For- eign make.	LOOM.	Cen- sus year.	Total.	Nar- row, less than 32 inches.	Broad, 32 but less than 42 inches.	Special, 42 inches and over.1	610	For- eign make.
Total	1919 1914	692, 169 672, 754	115,352 115,507	456,025 477,884	120,792 79,363	691,800 672,351	369 403	Fancy, total	1919 1914	108,188 115,429	13,431 14,882	72,931 86,337	21,826 14,210	108,184 115,273	4 156
Plain, total	1919 1914	583,550 557,325	101,490 100,625	383,094 391,547	98,966 65,153	583,185 557,078	365 247	Nonautomatic	1919 1914	79, 781 104, 462	10,366 13,519	54,992 77,699	14,423 13,244	79,777 104,442	20
Nonautomatic	1919 1914	257,081 359,476	59,935 70,203	159, 436 246, 922	37, 710 42, 351	256, 726 359, 366	355 110	Dobby	1919 1914	48,817 66,940	4,815 8,030	38,009 54,435	5,993 4,475	48,813 66,920	20
Two-harness	1919 1914	154, 283 211, 220	30, 897 39, 526	99, 267 146, 316	24, 119 25, 378	154,100 211,198	183 22	Dobby box	1919 1914	14,916 18,145	2,264 3,072	9,813 18,324	2,839 1,749	14,916 18,145	
More than two-harness.	1919 1914	55,117 105,189	10,626 16,158	33,011 74,800	11,480 14,231	54,955 105,111	162 78	Jacquard	1919 1914	8,660 12,986	2,869 1,355	4,040 7,381	1,751 4,250	8,660 12,986	
Box	1919 1914	47, 681 43, 067	18, 412 14, 519	27,158 25,806	2,111 2,742	47,671 43,057	10 10	Jacquard box	1919 1914	7,388 6,391	418 1,062	3,130 2,559	3,840 2,770	7,388 6,391	
Automatic	1919 1914	326, 469 197, 849	41,555 30,422	223,658 144,625	61, 256 22, 802	326, 459 197, 712	10 137	Automatic	1919 1914	28, 407 10, 967	3,065 1,363	17,939 8,638	7,403 966	28,407 10,831	136
								Webbing and ribbon looms.	1919 1914	431 (2)	431			431	

¹ The basis of the special width loom was 42 inches in 1919 and 43 inches in 1914.

TABLE 36.—COMPARATIVE STATISTICS FOR LOOMS IN THE COTTON-GOODS INDUSTRY, BY WIDTH AND BY STATES: 1919 AND 1914.

		STATE AND CENSUS YEAR.													
CLASS.	United States.		Georgia.		Massachusetts.		North Carolina.		Rhode Island.		South Carolina.		All other states.		
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914	
Total	692, 169	672,754	46,318	41,869	225,379	228, 127	71,538	60, 931	50,921	52,095	116,932	111,189	181,081	178, 543	
Domestic make Foreign make	691, 800 369	672,351 403	46,318	41,869	225,379	228,056 71	71,538	60, 931	50,855 66	52,095	116,932	111, 187	180,778 303	178, 213 330	
Plain Nonautomatic Two-harness Narrow (less than 32 inches) Broad (32 but less than 42	583, 550 257, 081 154, 283 30, 897	557,325 359,476 211,220 39,526	42,753 11,017 7,846 2,656	38, 336 23, 637 13, 883 913	171,261 119,097 86,167 19,566	170,620 134,483 83,784 20,754	64,763 33,583 14,719 3,509	51, 593 34, 972 16, 676 6, 227	38,842 15,760 9,147 296	40,314 28,569 17,290 302	108,763 18,518 13,715 1,118	99, 216 52, 901 40, 983 5, 864	167,168 59,106 22,689 3,752	157, 246 84, 914 38, 604 5, 466	
inches). Special (42 inches and over). More than two-harness. Narrow. Broad. Special. Box. Narrow. Broad. Special. Special.	99, 267 24, 119 55, 117 10, 626 33, 011 11, 480 47, 681 18, 412 27, 158 2, 111	146,316 25,378 105,189 16,158 74,800 14,231 43,067 14,519 26,806 2,742	3,713 1,477 2,707 729 1,918 60 464 30 294 140	9,859 3,111 6,441 905 4,872 604 3,313 288 2,491 534	51,531 15,070 26,224 4,630 16,423 5,171 6,706 2,878 3,724 104	54, 187 8, 863 44, 600 7, 599 32, 382 4, 619 6, 099 779 5, 136 184	10,059 1,151 5,922 735 5,065 122 12,942 7,201 5,591 150	9, 779 670 11, 659 2, 282 8, 522 8, 522 6, 637 4, 076 2, 461	6,319 2,532 4,439 437 2,087 1,915 2,174 1,591 579	14,072 2,916 11,153 717 6,223 4,213 126 28 20 78	12,244 353 756 180 566 10 4,047 1,873 1,924 250	32, 417 2, 702 9, 561 1, 293 8, 258 10 2, 357 1, 401 722 234	15,401 3,536 15,069 3,915 6,952 4,202 21,348 6,426 14,034 888	26,022 7,116 21,775 3,362 14,543 3,870 24,535 7,947 14,976 1,612	
Automatic Narrow. Broad. Special.	326, 469 41, 555 223, 658 61, 256	197,849 30,422 144,625 22,802	31,736 2,753 17,665 11,318	14,699 2,088 10,157 2,454	52,164 6,014 35,009 11,141	36,137 5,258 26,832 4,047	31,180 5,986 17,654 7,540	16, 621 3, 317 10, 489 2, 815	23,082 513 14,278 8,291	11,745 878 9,899 968	90,245 12,413 74,773 3,059	46,815 5,270 40,109 936	98,062 13,876 64,279 19,907	72,332 13,611 47,139 11,582	
Fancy. Nonautomatic. Dobby. Narrow. Broad. Special	48,817	115,429 104,462 66,940 8,030 54,435 4,475	3,364 1,375 430 50 354 26	3,533 3,373 2,063 40 1,797 226	54,065 46,915 34,179 8,945 27,248 2,986	57,507 52,884 38,104 3,837 32,385 1,882	6,772 2,912 288 288	9,338 7,715 2,222 582 1,640	12,078 9,406 3,845 81 2,141 1,623	11,781 11,627 4,972 291 3,568 1,113	8,169 4,081 3,251 428 2,583 240	11,978 10,425 9,357 2,153 7,124 80	23,740 15,092 6,824 311 5,395 1,118	21,297 18,438 10,222 1,127 7,921 1,174	
Dobby box	14, 916 2, 264 9, 813 2, 839	18,145 3,072 13,324 1,749	382 258 124	806 92 522 192	6,147 877 3,593 1,677	6,437 387 5,488 562	1,924 899 1,005 20	3,733 1,925 1,808	2,168 136 1,352 680	2,732 367 1,757 608	506 38 468	698 698	3,789 56 3,271 462	3,739 300 3,05 380	
Jacquard. Narrow. Broad. Special.	8,660 2,869 4,040 1,751	12,986 1,355 7,381 4,250	336 232 104	372 229 143	4,647 2,106 2,396 145	7,263 860 5,726 677	700 200 64 436	1,351 92 140 1,119	926 696 230	1,087 100 818 169	274 3 152 119	818 61 150 107	1,777 328 732 717	2,59 24 31 2,03	
Jacquard box Narrow Broad Special	. 3,130	6,391 1,062 2,559 2,770	227 24 182 21	132	1,942 523 1,419	1,080 12 600 468		409 350 6 53	1,709	2,836 620 1,616 600	50 50	52 50 2	2,702 138 666 1,898	1,88 8 28 1,51	
Automatic Narrow. Broad. Special.	3,065 17,939	10,967 1,363 8,638 966	1,989 472 1,114 403	160 160	7,150 258 4,905 1,989	4,623 138 3,896 589	3,860 378 1,977 1,505	1,623 1,615 8	2,672 182	154 58 55 41	4,088 78 3,489 521	1,548 24 1,524	1,699	2,88 1,14 1,38	
Webbing and ribbon looms	431	(1)	201	(1)	53	(1)	. 3	(1)	1	(1)			178	(1)	

^{*} Not reported separately in 1914.

Looms, width by states.—Table 37 presents statis— as this was the first census at which information was tics in greater detail with respect to looms for the received on the number of harness and boxes used year 1919. Comparative figures could not be shown | in connection with the automatic loom.

Table 37.—Detailed statistics for Looms in the Cotton-Goods industry: 1919.

LOOM.	United States.	Ala- bama.	Connect-	Georgia.	Maine.	Massa- chusetts.	New Hamp- shire.	New York.	North Carolina.	Penn- sylva- nia.	Rhode Island.	South Carolina.	Vir- ginia.	All other states.
Total,	692, 169	19,897	25, 539	46,318	28, 822	225, 379	39,747	12,039	71,538	11,053	50,921	116,932	13, 325	30, 659
Plain Domestic Foreign	583,550 583,185 365	19,623 19,623	19,384 19,312 72	42,753 42,753	27,134 27,134	171, 261 171, 261	37,990 37,990	9,393 9,359 34	64,763 64,763	5,083 5,009 74	38,842 38,776 66	108,763 108,763	12,591 12,591	25, 970 25, 851 119
Nonautomatic Two-harness—	257, 081	4, 223	12,427	11,017	2,935	119,097	17, 276	674	33,583	3,485	15,760	18,518	3,508	14, 488
Two-harness— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches and over) Two-harness, box—	30, 897 99, 267 24, 119	2,098 802	2,897 922	2,656 3,713 1,477	150 293 218	19, 566 51, 531 15, 070	i, i32 7	12 512 40	3,509 10,059 1,151	335 193 14	296 6,319 2,532	1,118 12,244 353	202	2,229 8,074 1,533
Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches and over) More than two-harness—	12, 364 16, 618 630	50	16 4	30 252 140	1,159	1, 049 2, 644 20	1,500 4,887		6,650 5,185 100	322 457 64	72	1,749 1,908 230	964	100 60
Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches and over)	10, 626 33, 011 11, 480	67 168 216	2,179 4,299 1,598	729 1,918 60	601	4,630 16,423 5,171	1,412 576 1,374	39 18 52	735 5,065 122	113 174 514	437 2,087 1,915	180 566 10	43	62 1,116 448
More than two-harness, box— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches and over)	6,048 10,540 1,481	308		42	514	1,829 1,080 84	1,500 4,888	1	551 406 50	15 760 524	1,591 507	124 16 20	2,024 365	570 296
Automatic Two-harness—	326, 469	15,400	6,957	31,736	24, 199	52, 164	20,714	8,719	31,180	1,598	23,082	90, 245	8,993	11,482
Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches and over) Two-harness, box—	23,569 135,945 38,171	2,674 5,293 1,956	516 375	1,896 10,286 6,397	772 4,429 4,166	2,649 21,044 7,207	306 249 469	2,090 2,540	2,322 11,271 3,389	129 538	512 8,743 5,407	9,864 63,409 3,059	2,298 3,113 256	5,378 2,406
Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches and over)	2,072 7,515 1,185	206	•••••	223 644 24	240	704 1,499 48			660 456 1,030	66	16	1,828	2,486	96 1
More than two-harness— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches or over)	15, 171 74, 196 19, 637	368 3,967 804	268 5,271 523	602 6,234 4,865	3,698 7,345 1,093	2,375 11,627 3,485	1,490 15,870 1,600	2,651 1,432	2,829 5,429 2,049	728 110	5,439 2,868	2,051 8,184	17	1,064 1,450 791
More than two-harness, box— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches or over)	743 6,002 2,263	37 85		32 501 32	2,456	286 839 401	700		175 498 1,072	32	98	195 1,352	25 191	23
Fancy Domestic Foreign	108,188 108,184 4	274 274	6,153 6,153	3,364 3,364	1,688 1,688	54, 085 54, 085	1,757 1,757	2,646 2,642 4	6,772 6,772	5,938 5,938	12,078 12,078	8,169 8,169	734 734	4,550 4,550
Nonautomatie	79,781	139	4,789	1,375	1,004	46, 915	879	487	2,912	5,475 96	9,406	4,081	304	2,515
Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches or over)	4,815 38,009 5,993	100	3,575 278	50 354 26	120	3,945 27,248 2,986		31 67	288	137 304	2,141 1,623	2,583 240 38	304	1,192 536
Dobby, box— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches or over)	., ., .,		542 161	258 124	316	877 3,593 1,677		29 18	1,005 20	2,235 280	1,352 680	468		160 21 197
Jacquard— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches or over)	. 1. (01	39	20	232 104	106 74 14	2,106 2,396 145	379	25 14 8	200 64 436	219 508	696 230	1		777
Jacquard, box— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches or over)	418 3,130 3,840		100 28	24 182 21	374	523 1,419		51 244		86 259 1,247	256 1,709 502	50		63 249
Automatic	00.40	135	1,364	1,989	684	1		20	3,860 188	463	2,672	72		2,035
Dobby— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches or over)	1,567 15,021 3,846	25 20	1,041 265	50 886 403	380	1,053	1,001	1,324 779	248 138	73	1,850 293	3,332		475 20
Dobby, box— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches or over)	2,029			366 60		128 487 264			1,295 179		100	115		30
Jacquard— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches or over)	. 429 711 2,567	90	24	. 56 168		32		36	136 273 1,188		1	25		I
Jacquard, box— Narrow (less than 32 inches) Broad (32 to 42 inches) Special (42 inches or over)	196 178					437			161	4	87	. 17		
Webbing and ribbon looms: Number Aggregate number of divisions	431			201 2,408		630	3		168					1,884

Looms, by geographic divisions.—A distribution of the number of looms in the cotton-goods industry, according to geographic divisions, is shown in Table 38 for 1919, 1914, 1909, and 1904.

Table 38.—Looms in the Cotton-Goods Industry, by Geographic Divisions: 1919, 1914, 1909, and 1904.

DIVISION.	1919	1914	1909	1904
United States	692, 169	672,754	632, 963	540,910
New England. Middle Atlantic Morth Central South Atlantic East South Central West South Central All other states 1	373, 712 27, 357 3, 598 250, 640 30, 607 5, 686 569	380, 177 25, 097 3, 797 230, 978 28, 510 4, 195	373, 560 30, 805 5, 195 192, 560 26, 342 4, 501	324, 058 28, 784 4, 696 155, 559 23, 431 3, 726 650

¹ All other states embrace, for 1919, California, 1 establishment and Utah, 1; for 1904, California, 1 and Missouri, 1.

Statistics for the cotton small-wares industry.— Special statistics relating to cotton small wares are presented in the following tables. Other information which is more general in character but shown separately for this industry will be found in Tables 1, 3, 9, and 48.

Materials.—The quantity and cost of the chief materials used in the manufacture of cotton small wares are itemized in Table 39 for 1919, 1914, and 1909.

Table 39.—Materials Used in the Cotton Small-Wares Industry: 1919, 1914, and 1909.

MATERIAL.	1919	1914	1909
Total cost	\$24, 039, 951	\$6,243,027	\$ 6,995,066
Cotton:			
Domestic-			
Bales	10, 209	20, 192	6, 331
Pounds	4, 966, 774 \$1, 580, 159	9,810,156 \$954,079	3,082,270
Sille	er, 000, 100	\$204,019	\$359, 106
Pounds	(1)		100,662
Cost	(1)		\$350, 834
Yarns:		ļ .	•
Cotton— Pounds	22, 594, 262	14 710 900	10 040 505
Cost	\$16, 840, 808	14,716,299 \$3,598,598	18, 346, 525 \$4, 700, 513
Silk and spun silk	410, 010, 000	40,000,000	ez, 100, 013
Pounds	58, 463	86,943	37, 617
Cost Artificial silk—	\$475, 996	\$313, 439	\$112,912
Pounds	196, 279	HO 944	(8)
Cost	\$844, 083	78, 344 \$148, 790	· (2) (2)
Other yarns—	4012,000	V110, 100	(~)
Pounds	23,406	326, 520	480, 013
Cost	\$24,944	\$199, 255	\$252, 385
Waste: Pounds.	901 000	101 18-	005 500
Cost	201, 960 \$35, 466	121, 175 \$9, 466	625, 526
	Ψου, ±00	49, 200	\$59,138
Starch, cost	\$71,020	\$5,123	\$18,681
Chemicals and dyestuffs, cost	\$237, 186	\$5, 123 \$75, 503	\$ 77,337
All other materials, cost	\$3, 930, 289	\$938, 77±	\$1,065,060

 $^{^1}$ Included in "All other materials" in order to avoid disclosure of individual operations. 2 Not reported separately.

Products.—Detailed statistics are shown in Table 40 with respect to the quantity and value of the principal products of the industry reported at the censuses of 1919 and 1914. The growth of the industry warranted a further segregation of products than had been made

prior to the census of 1919, so that comparison with 1914 is not available for a number of commodities.

Table 40.—Products—Cotton Small-Wares Industry: 1919 and 1914.

PRODUCT,	1919	1914
Number of establishmentsValue of products	164 \$40,896,835	108 \$11,525,033
Woven tape and webbing (not elsewhere specified)	1,060,863,168 \$15,104,429	1,023,839,328 \$4,927,498
Banding, belts, and belting (not over 12 inches in width)Linear yards	14, 283, 019 \$625, 934	(1) (1)
Spindle bandingPounds Value	440.392	(1)
Labels, woven figuresLinear yards Value	\$423,557 915,186 \$623,837	<u>}</u> ;}
Trimmings, edgings, etcLinear yards Value	51,048,784) <u>}</u> ;
Braids:	41,400,201	
Woven and knittedLinear yards Value	58, 350, 120 \$901, 874	(1) (1)
Lace and braided laceLinear yards Value	101,603,950 \$1,886,470	
Round (including shoe and corset		(-)
laces)Linear yardsValue All otherLinear yardsLinear yards	894, 249, 563 \$15, 195, 776 65, 627, 056	
Cotton waste: Soft	\$1,333,504 360,257	1
Value HardPounds	363,881	161,700 \$5,059
Value All other cotton small wares Linear yards	\$26, 262 53, 202, 089	(A)
All other cotton products. Value. All other products (including contract work) Value.	53, 202, 089 \$1, 227, 244 \$1, 586, 862 \$496, 818	\$6,296,530 \$295,946

¹ Included in "All other cotton products."

Equipment.—A distribution, by states, of the spindles, braiding machines, and looms used in the industry during 1919 is shown in Table 41. Looms used in establishments where the primary occupation is weaving belting and hose, suspender and garter webbing, or any elastic webbing are not included in this table, as such establishments are given other industry classifications.

Table 41.—Machinery Used in the Manufacture of Cotton Small Wares: 1919.

KIND.	Total.	Massa- chu- setts.	New Jer- sey.	New York.	Penn- syl- vania.	Rhode Is- Iand.	All other states
Spindles. Producing spindles. Mule, spluning. Frame, spinning. Doubling and twisting spindles. Braiding machines: Number.	1 78, 779 58, 360 2, 680 55, 680 20, 419 62, 630	15,880 10,632 10,632 5,248 13,333		1, 177 120 120 120 1, 057		58, 952 2 45, 504 2, 560 42, 944 13, 448 27, 275	2, 104 2, 104
Aggregate number of carriers. Webbing and ribbon looms: Number. Aggregate number of divisions.	1,672,081 4,973 180,007	333, 345	28, 059 48	206, 918 201	374, 789 1, 562	660, 992 1, 905	67, 978 412

¹ Mills in this industry reported 71,758 spindles in 1914; 29,808 in 1909; 39,530 in 1904; and 42,600 in 1899.

² Not including 1,600 mule spinning spindles idle entire year.

Wage earners.—The number of spinners, weavers, and braiders is shown, by states, in Table 42 for 1919, with a division of such operatives by sex and age.

Table 42.—Wage Earners in the Cotton Small-Wares Industry: 1919.

[On Dec. 15, or nearest representative day.]

CLASS.	Total.	Massachu- setts.	New Jersey.	New York.	Pennsylva- nia.	Rhode Island.	All other states.
United States	10,065	1,683	226	452	2,696	4,360	648
Spinners, mule	4					4 4	
Spinners, frame. 16 years of age and over, male 16 years of age and over, female Undor 16 years of age, male. Under 16 years of age, male.	150. 34 93 9 14	24 4 20				121 30 69 9	5 4 1
Weavers. 16 years of age and over, male	2,084 710 1,345 2 27	367 166 201	37 16 21	98 82 16	671 122 532	739 253 479 7	172 71 96 2 3
Hraiders. 16 years of age and over, male	1,941 590 1,272 13 66	397 75 290 4 28	38 9 29	107 15 92	541 154 353 8 26	790 320 459 1	68 17 49
All other 16 years of age and over, male 16 years of age and over, female Under 16 years of age, male Under 16 years of age, female	5,886 2,255 3,216 134 281	895 299 485 36 75	151 35 113 2 1	128	694	2,706 978 1,483 71 174	121 256 8

Statistics for the cotton-lace industry.—A special schedule designed for the exclusive use of those establishments reporting the manufacture of cotton lace has made it possible to present statistics in detail as shown by the following tables. Information which is more general in character may be found for this industry by referring to Tables 1, 3, 9, and 48.

Materials.—The quantity and cost of the principal materials used in the manufacture of cotton-lace goods, during 1919 and 1914, are presented in Table 43 for the United States and the most important states.

TABLE 43.—MATERIALS USED IN THE COTTON-LACE INDUSTRY: 1919 AND 1914.

47 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						
	19	19	1914			
MATERIAL.	Quantity (pounds).	Cost.	Quantity (pounds).	Cost.		
United States		\$13,075,994		\$5,676,948		
Yarns: Cotton— United States. New York. Pennsylvania. Rhode Island. All other states. Mercerized cotton— United States. Silk and spun silk— United States. Rhode Island. All other states. Artificial silk— Artificial silk—	111,036,199 1,940,257 6,725,186 1,341,404 1,029,352 711,106 11,387 6,069	110, 055, 733 1, 580, 610 5, 512, 958 1, 717, 414 1, 244, 751 816, 989 2 137, 141 91, 080 46, 061	111, 137, 700 1, 946, 677 7, 451, 857 1, 003, 489 645, 677 247, 801 255, 240 34, 312 20, 928	13, 709, 978 577, 212 2,171, 984 525, 902 434, 930 83, 433 1 263, 612 163, 910 99, 702		
United States	2,860	26,242	3,508	7,533		

¹ Includes raw cotton, statistics for which can not be shown separately without disclosing individual operations.

¹ Includes raw silk, statistics for which can not be shown separately without disclosing individual operations.

Table 43.—Materials Used in the Cotton-Lace Industry: 1919 and 1914—Continued.

	19	19	1914			
MATERIAL.	Quantity (pounds).	Cost.	Quantity (pounds).	Cost.		
Starch: United States Pennsylvania All other states. Chemleals and dyestuffs: United States. New York. Pennsylvania. Rhode Island. All other states. All other materials.		178, 575 27, 598		\$39,070 33,891 5,179 75,433 9,558 41,549 10,962 13,364		

Products.—Table 44 presents statistics in regard to the quantity and value of the leading products of the industry for 1919 and 1914 for the United States and for those states which can be presented separately.

Table 44.—Products of the Cotton-Lace Industry: 1919 and 1914.

	19	19	191	4
PRODUCT.	Quantity.	Value.	Quantity.	Value.
United States. New York. Pennsylvania. Rhode Island. All other states.		1\$29,396,853 4,146,000 14,813,995 4,110,419 6,326,439		\$13,206,785 2,194,088 6,534,485 2,056,962 2,421,250
Nottingham lace curtains: United States Pennsylvania All other states	Pairs. 3, 933, 493 2, 935, 614 997, 879	8,165,447 6,679,158 1,486,289	Pairs. 5,591,154 4,127,985 1,463,169	4,678,847 3,342,828 1,336,019
Nottingham lace-curtain nets: United States Pennsylvania All other states	Lin. yds. 19, 464, 962 15, 234, 267 4, 230, 695	7,616,339 5,532,697 2,083,642	Lin. yds. 7,504,809 6,696,842 807,967	1, 258, 307 1, 019, 217 239, 090
Levers laces: United StatesRhode IslandAll other states	Square yds. 11, 629, 123 7, 327, 531 4, 301, 592	6, 607, 546 3, 869, 113 2, 738, 433	Square yds. 7,236,934 3,761,362 3,475,572	3, 681, 042 1, 815, 006 1, 866, 036
Other narrow laces	Lin. yds. 70,406,312	673,070	Lin. yds. 166, 169, 567	895,692
Panels and other small pieces: United States Pennsylvania All other states	Number. 1,759,444 633,220 1,126,224	540, 962 265, 380 275, 582	Number. 2,359,879 2,275,928 83,951	322, 594 278, 844 43, 750
Bedspreads: United States Pennsylvania All other states	54,977	119,325 65,245 54,080	Number. 719,333 530,780 188,553	484,107 316,330 167,777
All other laces: United States. Pennsylvania. All other states.	1	3,641,821 745,739 2,896,082		1, 199, 464 464, 820 734, 644
All other products: United States Pennsylvania All other states		2,032,343 233,041 1,799,302		685, 732 221, 923 463, 809

¹ In addition, in 1919, cotton lace to the value of \$2,025,790 and in 1914, to the value of \$958,738, was manufactured by establishments engaged primarily in other industries.

Equipment.—The number of spindles and lace machines, both active and idle, is shown in Table 45.

It will be noticed that a large majority of the lace machines used in this industry are of foreign make.

Table 45.—Machinery Used in the Manufacture of Cotton Lace: 1919 and 1914.

		1919		1914
Machinery.	Total.	Active.	Idle.	Total.1
Spindles: Frame— Domestic	27,552	18,368	9, 184	28,000
Twisting and doubling— Domestic	14,880	9,920	4,960	(²)
Lace machines Nottingham lace curtain—	2,029	1,811	218	1 1,582
Foreign Bobbinet Foreign Domestic	474	342 474 473		1 412 31 28
Domestic	508	406 401	102 102	3 1 444 374
Domestic Warp	5 47	5 45	2	70 135
Foreign Domestie All other	36	9 36 544	2 37	26 9 660
Foreign Domestic	365 216	348 196	17 20	508 152

 $^{^1}$ All active except 11 lace-curtain machines, 9 levers, and 1 warp reported idle in 1914. 2 None reported in 1914.

Wage earners.—The number of spinners, lace weavers, and lace-curtain weavers are given, by states, in Table 46, according to sex and age.

Table 46.—Wage Earners in the Cotton Lace-Goods Industry: 1919.

[On Dec. 15, or nearest representative day.]

CLASS.	Total.	Connecti- cut.	New Jersey.	New York.	Pennsyl- vania.	Rhode Island.	All other states.
United States total	7, 441	815	244	957	3, 575	1, 165	685
Spinners, frame 16 years of age and over, male 16 years of age and over, female Under 16 years of age, female.	28 25 3				28 25 3		
Lace weavers	760 732 28	137 137	69 48 21	24 21 3	117 116 1	350 350	63 60 3
Lace-curtain weavers. 16 years of age and over, male 16 years of age and over, female	558 531 27	19 19		109 109	398 371 27		32 32
All other 16 years of age and over, male. 16 years of age and over, female. Under 16 years of age, male. Under 16 years of age female.	3, 425	659 222 396 5 36	175 42 118 10 5	417	3,032 1,025 1,659 176 172	815 232 468 35 80	590 173 405 6 6

GENERAL TABLES.

Comparative summary, by states.—Table 47 presents a statistical summary, by states, for the industry as a whole in 1919, 1914, and 1909.

Detailed statement, by states.—Table 48 gives a detailed account of the industry as a whole, and separately for each of the three branches.

TABLE 47.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

STATE.	Cen- sus year,	Num- ber of estab- lish-	Wage earners (aver- age num-	Primary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	STATE.	Cen- sus year.	Num- ber of estab- lish-	Wage earners (aver- age	Primary horse- power,	Wages.	Cost of mate- rials.	Value of products.
		ments.	num- ber).	1,0 % 01.	Expres	ssed in tho	usands.		year.	ments.	num- ber).	power	Express	ısands.	
United States.	1919 1914 1909	1,496 1,328 1,324	446,852 393,404 378,880	1,863,542 1,585,953 1,296,517	\$368,724 152,423 132,859	\$1,314,902 443,523 371,009	\$2,195,566 701,301 628,392	New Jersey	1919 1914 1909	45 30 26	9,672 7,394 6,638	22,780 20,987 17,288	\$8,477 3,287 2,577	\$41,432 10,116 8,565	\$60,475 16,782 13,729
Alabama	1919 1914 1909	58 57 51	18,102 13,697 12,731	73,569 48,278 42,637	11,358 4,206 3,454	51,339 17,779 14,373	79,643 25,623 22,212	New York	1919 1914 1909	58 51 47	10, 493 9, 127 10, 663	49,901 38,922 33,354	9,918 4,240 4,166	31,812 11,653 11,726	55, 287 18, 465 20, 352
Connecticut	1919 1914 1909	57 50 52	16, 483 15, 466 14, 360	72,606 65,629 58,137	15,648 6,982 5,666	65,802 17,335 11,960	105,054 30,809 24,232	North Carolina	1919 1914 1909	311 293 281	67, 297 53, 703 47, 231	258, 463 245, 600 164, 609	49,135 15,796 12,131	186,780 62,338 48,688	318, 368 90, 744 72, 680
Georgia	1 1919 1 1914 1909	132 118 116	38, 283 30, 719 27, 803	150,363 112,626 92,979	26,278 8,119 7,721	123,438 •41,210 32,049	192,186 59,982 48,037	Ohio	2 1919 1914 1909	5 6 4	577 478 177	1,954 598 446	461 226 52	2,328 361 234	3,968 912 395
Illinois	1919 1914 1909	10 7 5	1,538 1,356 1,319	4,766 3,759 2,020	1,245 630 522	5,038 1,513 1,102	7,385 2,779 2,111	Pennsylvania	1919 1914 1909	168 155 175	15,379 14,640 16,293	28, 743 23, 411 24, 589	14,672 6,676 7,034	50, 926 17, 564 18, 757	90,582 32,400 33,917
Indiana	1919 11914 1909	4 4 7	997 961 1,582	4,550 4,015 5,315	701 365 478	2,490 1,133 1,670	4,353 1,797 2,502	Rhode Island	1919 1914 1909	132 102 106	36,336 29,483 28,786	120, 895 110, 289 95, 278	33, 218 13, 785 11, 797	100,148 28,756 25,401	177, 423 49, 719 50, 313
Kentucky	1919 1914 1909	6 4 4	967 1,158 1,044	5, 524 3, 725 3, 159	639 359 307	2,925 1,330 1,188	4,459 1,991 1,902	South Carolina	1919 1914 1909	145 148 147	48,079 46,448 45,454	267,090 231,220 187,716	36, 402 14, 436 11, 661	137, 084 53, 889 41, 303	228, 440 78, 446 65, 930
Maine	1919 1914 1909	15	13,834	71,702 04,404 53,823	11, 426 5, 775 5, 718	29,424 13,033 11,390	56, 564 22, 122 21, 932	Tennessee	1919 1914 1909	15	4, 895 3, 403 3, 078	16,093 12,311 11,129	3,171 1,046 857	14, 295 4, 554 3, 344	22,461 6,486 5,201
Maryland	. 1919 1914 1909	13	3,424	16,975	1,239	11,427 4,452 4,012	18,455 6,791 5,522	Texas	1919 1914 1909	12	2,633 1,875 1,590	14,210 5,948 4,835	1,840 675 501	9,315 2,643 1,793	13, 920 3, 755 2, 815
Massachusetts	. 1919 1914 1909	189	113,559	438, 083	111, 141 50, 706 45, 117	364, 921 119, 834 105, 157	604, 938 197, 322 186, 462	Vermont	1914	4	1,092 902 6,518	4,933	450	2,127 952 17,544	4,384 1,559 32,535
Michigan	. 1919 1914	3 3	116 31	633	77	540			. 1919 1914 1909	9	6,310 5,057	34, 220	2, 174 1, 480	6,057 4,699	10, 216
Mississippi	1919 1914 1909	15 11 14	1,989	6,939 5,510 6 8,045	1,537 580 698	4,974 1,812 2,042	8,067 2,789 3,102	All other states	1919 1914 1909	: 12	4, 366 1, 688 2, 625	12,567 7,044 12,271	3,172 612 848		3.870
New Hampshire	21919 1914 1909	≰ i 20	21,669	87,886	18, 233 10, 046 8, 938	22,790	86,392 35,793 33,602								

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

					PERSO	NS ENG	AGED I	N THE IN	DUST	RY.			WAGE E	ARNERS REPRESE	DEC. 15	, OR NE	AREST	
					Sala-	Clerk	s, etc.		Wa	ge earne	rs,			16 and	l over.	Und	er 16.	
	INDUSTRY AND STATE.	Num- ber of estab- lish- ments,	Total.	Pro- prie- tors and firm mem- bers.	ried offi- cers, super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average number.	Ma	mber, 15	Mir	nimum onth.	Total.	Male.	Fe- male.	Male,	Fe- male.	Capital.
_						CO	TTON	MANU	FAC'	rures.								
1	United States	1,496	462,873	346	7,387	4,783	3,505	446, 852	De	466, 409	Аp	429,531	477,351	261,347	193, 241	11,137	11,626	Dollars. 1,914,919,506
2 3 4 5	Alabama Connecticut Georgia ³ Illinois ³ .	132 10	18,628 17,649 39,417 1,638	14	250 387 630 34	193 403 317 37	73 364 173 26	18, 102 16, 483 38, 283 1, 538	De	18,870 17,220 40,616 1,715	Ap Ap	17,431 15,935 36,260 1,359	18,631 17,214 40,511 1,719	11,257 9,590 24,410 756	7,054 6,792 14,730 802	393 719	248 439 652 65	69,673,498 89,997,981 150,191,479 5,130,335
6 7 8 9	Indiana Kentucky ³ Maine Maryland ⁸	4 6 14 14	1,043 1,007 11,951 3,716	3	89	20 7 65 124	8 9 34 83	997 967 11,763 3,416		1,044 1,211 13,511 3,621	Jy Mh	950 608 6,661 3,310	1,001 1,022 13,522 3,440	426 477 7,034 1,743	503 518 6,378 1,658	13 63	53 14 47 15	3,627,971 4,107,714 54,738,225 10,441,008
10 11 12 13	Massachusetts Mississlppi New Hampshire 4 New Jersey	231 15 21 45	127,655 2,500 21,814 10,176	1 1	210	1,059 18 165 156	958 13 135 90	124, 150 2, 406 21, 294 9, 672	Au	128,698 2,540 21,883 10,223	Au Ja	119, 715 2, 297 20, 537 8, 792	130,172 2,805 21,760 10,199	66,293 1,386 11,622 4,441	56,350 1,273 9,853 5,420	69	3,914 77 128 232	509,651,572 6,680,362 83,546,903 55,291,554
14 15 16 17	New York. North Carolina. Pennsylvania. Rhode Island.	58 311 168 132	11,078 69,502 16,792 37,852	27 36 145 30	257 1,327 498 687	154 565 461 328	147 277 309 471	10, 493 67, 297 15, 379 36, 336	De De De De	11,441 69,436 16,838 37,827	My Ap	9, 727 65, 626 14, 009 35, 067	11,449 72,831 16,971 42,254	6,932 41,414 8,135 21,745	4,418 27,046 8,132 17,956	2, 192 335	2,179 369 1,328	51,265,047 268,322,984 70,545,742 138,017,008
18 19 20 21	South Carolina Tennessee Texas Vermont	145 16 15 4	49,434 5,066 2,730 1,138		756 86 62 26	415 60 20 9	182 25 15 11	48,079 4,895 2,633 1,092	De De Ja No	49,898 5,219 2,812 1,179	Se Oc	46,773 4,453 2,538 1,052	50,576 5,192 2,592 1,142	32,121 2,686 1,606 635	15, 251 2, 268 973 494	142	1,537 96 11 2	248, 327, 427 21, 064, 680 10, 188, 487 4, 477, 985
22 23 24	Virginia. Wisconsin All other states 5	10 6 24	6, 635 211 5, 241	3		56 22 129	12 4 86	6,518 171 4,888	De No	6,871 184	Ја Ар	6,072 152	6,896 186 5,266	4,284 85 2,269	2,437 95 2,840		85 6 84	33,731,798 696,715 19,203,031
							COI	TON G	oon	S.								-
1	United States		445, 423	239		4,331	3,095		De			414,718	459,845	254,380	183,810	10,735	10,920	
2 3 4 5	Alabama Connecticut Georgia Illinois			12 14	334	193 377 317 26	73 328 173 22	38, 283	No Do De De	18,870 16,277 40,616 1,454	Ap Ap Ap Mh	17,431 15,157 36,260 1,098	18,631 16,271 40,511 1,458	11,257 9,182 24,410 689	7,054 6,315 14,730 614	385 719	248 389 652 59	69, 673, 498 85, 809, 530 150, 191, 479 4, 728, 285
6 7 8 9	Indiana. Kentucky Maino. Maryland.	4 6 14 14	1,043 1,007 11,951 3,716	3	89 90	20 7 65 124	8 9 34 83	997 967 11,763 3,416	De	1,044 1,211 13,511 3,621	Jy Mh	950 608 6,661 3,310	1,001 1,022 13,522 3,440	426 477 7,034 1,743	503 518 6,378 1,658	13 63	53 14 47 15	3,627,971 4,107,714 54,738,225 16,441,008
10 11 12 13	Massachusetts Mississippi Now Hampshire New Jorsey	191 15 16 33	125, 834 2, 500 21, 688 9, 700	1 2	62 207	1,046 18 164 134		2,406	Ja Se	127,017 2,540 21,753 9,771	Au Ja	118, 106 2, 297 20, 421 8, 437	2.805	65,749 1,386 11,568 4,291	1,273 9,788	69 155	3,811 77 126 226	504, 295, 192 6, 680, 362 83, 219, 151 53, 852, 871
14 15 16 17	New York. North Carolina. Pennsylvania. Rhode Island.	37 311 118 74	9,658 69,502 10,618 32,561	36 110	1,327 331	120 565 235 262	101 277 175 364	9, 222 67, 297 9, 767 31, 405	Do De	10,038 69,436 10,611 32,337	Fe	8,391 65,626 8,734 30,378	10,040 72,831 10,700 36,729	6,160 41,414 5,653 19,578	3,812 27,046 4,772 14,998	134	26 2,179 141 1,044	46,212,802 268,322,984 45,864,475 120,067,679
18 19 20 21	South Carolina. Tennessee. Texas. Vermont.	145 16 15 4	49,434 5,066 2,730 1,138		756 86 62 26	415 60 20 9	182 25 15 11	48,079 4,895 2,633 1,092	De Ja	49,898 5,219 2,812 1,119	Se Oc	46,773 4,453 2,538 1,052	50,576 5,192 2,592 1,142	32,121 2,686 1,606 635	15, 251 2, 268 973 494	1,667 142 2 11	1,537 96 11 2	248,327,427 21,064,680 10,188,487 4,477,985
22 23 24	Virginia. Wisconsin. All other states 6	10 6 15	8,635 211 4,333	3		56 22 76	12 4 56	6,518 171 4,086	De No		Ja Ap	6,072 152	6,896 186 4,445	4,284 85 1,946	95		85 6 76	33,731,798 696,715 16,779,498

Includes water wheels and turpines (trespective of ownership of water supply) and water motors (operated by water from city mains).

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

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

BY STATES: 1919.

			EXP	ENSES.								PC	WER,				
Sala	ries and w	ages.		Rent ar	nd taxes.	For mat	terials.				Prim	ary hor	sepowe	er.		Elec-	
								Value of products.	Value added by manufac-			Own	ieđ.			tric horse- power	
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.		ture.	Total.	Steam engines (not tur- bines),	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Water pow- er.1	Rent- ed. ²	gener- ated in estab- lish- ments report- ing.	
	`					СОТТ	ON MANU	FACTURES	3.								
Dollars. 29,673,081	Dollars. 12,090,880	Dollars. 368, 723, 712	Dollars. 4, 162, 821	Dollars. 1,858,779		Dollars. 1,276,638,111	Dollars. 38, 263, 431	Dollars. 2,195,565,881	Dollars. 880, 664, 339			257, 358	2, 842	307, 162	527, 777	350, 428	1
835, 820 1, 672, 770 2, 316, 670 218, 465	289, 864 1, 072, 864 839, 234 133, 175	11, 357, 948 15, 648, 008 26, 277, 763 1, 245, 167	3, 676 416, 124 295, 640	1, 201 161, 767 50, 400 22, 270	3, 343, 719 5, 489, 868 10, 834, 929 73, 943	49, 901, 930 64, 597, 645 120, 406, 162 4, 943, 838	1, 437, 223 1, 204, 764 3, 032, 346 94, 027	79, 643, 343 105, 054, 383 192, 185, 896 7, 385, 333	28, 304, 190 39, 251, 974 68, 747, 388 2, 347, 468	73, 569 72, 606 150, 363 4, 766	31,079 32,615 64,309 4,105	7, 183 8, 111 10, 292	80	11,900 25,627 22,735	23, 407 6, 173 53, 027 661	3,192 9,511 17,885 1,105	2 3 4 5
70, 435 77, 140 442, 745 319, 727	43, 451 23, 265 153, 373 229, 608	700, 509 639, 332 11, 425, 977 2, 990, 753	386,370	1,500 138 27,978	379, 683 79, 139 4, 214, 637 552, 887	2, 385, 791 2, 834, 454 28, 691, 470 11, 139, 221	104, 114 90, 475 732, 905 288, 336	4, 352, 535 4, 459, 039 56, 563, 825 18, 454, 957	1,862,630 1,534,110 27,139,450 7,027,400	4, 550 5, 524 71, 702 17, 323	2,080 3,048 13,750 4,386	2,470 16,053 1,900	2	90 38, 153 3, 055	2,384 3,746 7,982	2,593 20,611 1,745	7
7, 003, 578 163, 595 840, 491 1, 004, 642	2, 803, 102 43, 166 375, 267 345, 041	111, 141, 208 1, 537, 147 18, 233, 343 8, 476, 985	569, 775 400 41, 743 81, 428	8, 272	457, 764 5, 277, 307	353, 199, 181 4, 786, 440 45, 391, 773 40, 656, 642	11, 721, 543 187, 667 1, 851, 750 775, 352			6, 939	267,720 6,030 21,185 12,502	87, 234 29, 042 4, 687	1,411 6 10 191	69,685 23,834 710	903 17, 409	117, 955 647 30, 885 9, 341	- 11
1,032,245 4,470,673 2,451,263 2,665,181	1,642,141	9, 917, 569 49, 134, 506 14, 671, 574 33, 217, 979	558,653	69, 241 28, 092 279, 789 164, 636	3, 134, 668 16, 269, 060 3, 758, 609 8, 490, 328	30, 334, 595 181, 021, 415 49, 883, 216 97, 270, 701	976, 917 5, 758, 300 1, 042, 350 2, 877, 310	55, 287, 042 318, 368, 181 90, 581, 626 177, 423, 087	23, 975, 530 131, 588, 466 39, 656, 060 77, 275, 076	49, 901 258, 463 28, 743 120, 895	14,012 76,299 21,198 59,676	18, 575 17, 153 670 13, 346	111 10 183	359,	9, 583 137, 947 6, 333 28, 255	20, 223 31, 836 4, 461 25, 009	16
2, 635, 929 325, 806 188, 860 78, 135	716, 068 120, 304 49, 857 20, 917	3, 171, 482	163,325 2,794	3,081	14, 408, 829 1, 639, 597 527, 831 246, 432	132, 590, 854 13, 928, 887 8, 987, 812 2, 013, 265	4, 492, 731 366, 468 327, 081 114, 020	228, 440, 242 22, 460, 737 13, 919, 603 4, 383, 835	91, 356, 657 8, 165, 382 4, 604, 710 2, 256, 550	267, 090 16, 093 14, 210 6, 561	107, 352 9, 721 4, 785 3, 300	19, 798 1, 025	800	39,530 250 1,677	100, 410 5, 097 8, 625 1, 554	27, 963 2, 103 16 100	20
379, 551 30, 820 448, 540	166, 276 78, 265 293, 534	6,077,197 129,210 3,580,470	3	14,000 1,320 10,187	3, 101, 047 40, 726 81 6, 091	17, 132, 814 865, 643 13, 674, 362	411, 159 18, 911 367, 682	32, 534, 934 1, 269, 504 22, 926, 140	14,990,961 384,950 8,894,096	38, 963 1, 073 14, 081	5,206 300 3,745	17, 929 325 1, 535	30	15,405 800 60	118	22,528 206 514	23
							COTTON	GOODS.			1	· -	1		1	*I	
						1,240,463,758 49,901,930		2,125,272,193			756,073 31,079	7, 183		305, 204 11, 900	23, 407	3, 192	1
835, 820 1, 466, 490 2, 316, 670 181, 268	289, 864 1,006, 929 839, 234 102, 682	11, 357, 94 14, 783, 98 26, 277, 76 1, 085, 71	393, 947 3 295, 640 2	140,915	10, 834, 929	120, 406, 162	1, 152, 353 3, 032, 346	79, 643, 343 101, 551, 071 192, 185, 896 6, 484, 463	28, 304, 190 37, 139, 913 68, 747, 388 1, 975, 674	71, 856 150, 363 4, 546	32,605 64,309 4,070	8, 111 10, 292	80	25, 592 22, 735	5,468 53,027 476	9,496 17,885 1,105	2 3 4 5
70, 435 77, 140 442, 745 319, 727	5 43, 451	700, 50 639, 33 11, 425, 97	9 2 7 386, 370	1,500 138 1 27,978	4,214,637	2,834,454 28,691,470	104, 114 90, 475 732, 905	11	1, 862, 630 1, 534, 110 27, 139, 450 7, 027, 400	4,550 5,524 71,702 17,323	2,080 3,048 13,750 4,386	16.053	1 2	38, 153 3, 055	3,746 7,982	1,745	7 8 9
6, 611, 577 163, 598 835, 611 894, 778	7 2 740 030	109, 902, 50 1, 537, 14 18, 136, 06 8, 115, 85	3 549 728	939, 202	457,764 5,273,081	348, 077, 063 4, 780, 440 45, 152, 817 39, 856, 021	11, 598, 176		237, 012, 202 3, 092, 662 38, 988, 020 18, 093, 342	523, 645 6, 939 90, 895 22, 373		29, 042 4, 687	iii	23, 289	98,371 903 17,379 4,513	117, 895 647 30, 881 9, 333	112
710, 633 4, 470, 673 1, 675, 73 1, 936, 14	1	8,800,27 49,134,50 10,200,63 28,974,00		58,927 3 28,095 7 234,400	2,990,315 16,269,060 2,937,456	27,215,006 181,021,415 38,076,870	888,215 5,758,300 742,873				12,572 76,299 15,504 55,860	18, 290 17, 153 670 13, 346	89 10 123	7,585 27,054 35.9 18,060	9,325 137,947 4,848 24,720	19,709 31,836 2,817 23,630	15 16 17
2, 635, 92 325, 80 188, 86 78, 13		36,401,91 3,171,48 7 1,840,26		3 3,08	1 14, 408, 829 1, 639, 597 527, 831 246, 432	7 13,928,887 1 8,987,812	7 366, 468 2 327, 081	4,083,800			[]	1,025	800	250 1,677	8,625 1,554	2, 103 15 100	19 20 21
379, 55 30, 82 367, 62			7 9 8		3,101,04° 0 40,726 9 785,40	7 17,132,814 865,643 2 12,011,320	411,159 18,911 314,132	32,534,934 1,269,504 19,785,306	14,990,961 384,950 7,459,854	38,963 1,073 13,112			30	15,405 800)) 118	200	22 3 23 24

^{*} Excludes statistics for 2 establishments, to avoid disclosure of individual operations. These are included in "All other states."

All other states embrace: Arkansas, 1 establishment; California, 1; Louisiana, 3; Michigan, 3; Missouri, 1; Nebraska, 1; Ohio, 7; Utah, 1; and 6 establishments in certain states, statistics for which can not be shown separately without disclosing individual operations.

All other states embrace: Arkansas, 1 establishment; California, 1; Louisiana, 3; Michigan, 3; Missouri, 1; Ohio, 5; and Utah, 1.

MANUFACTURES.

TABLE 48.—DETAILED STATEMENT,

					PERSO	ns enc	AGED I	N THE I	vdusti	RY.			WAGE I	ARNERS REPRESE	, DEC. 15 ENTATIVE	OR NE	AREST	
					Sala-	Clerk	s, etc.		Wag	ge earne	rs.			16 and	l over.	Und	er 16.	
	INDUSTRY AND STATE.	Num- ber of estab- lish-		Pro- prie- tors	ried offi- cers, super-				Nu	nber, 15	th day	of—						Capital.
		ments	Total.	and firm mem- bers.	in- tend- ents, and man- agers.	Male.	Fe- Male.	Average num- ber.	Max mo	imum nth.	Minir mon		Total.	Male.	Fe- male.	Male.	Fe- male	
						G	OTTO	SMAL	L WA	RES.								
1	United States	164	10, 254	99	368	160	231	9,396	De	10, 102	Aр	8,872	10,065	3,593	5,926	158	388	Dollars. 29,559,474
2 3 4 5 6	Connecticut. Illinois Massachusetts New Hampshire. New Jersey.	5 3 40 5 6	143 283 1,821 126 239	13 8	10 4 97 3 19	7 11 13 1 6	18 4 47 3 2	108 261 1,651 111 209	De Aps Ja Au No	128 262 1,768 132 234	Fe Fe	91 259 1,541 63 183	128 261 1,683 123 226	30 67 544 54 60	188 996 65	40 2	14 6 103 2 1	334, 286 402, 050 5, 356, 380 327, 752 486, 095
7 8 9 10	New York. Pennsylvania. Rhode Island. All other states 4.	15 37 48 5	500 2,687 4,281 168	13 33 23 3	17 75 129 14	14 51 54 8	13 56 85 3	2,449 2,472 3,990 145	Au De De	460 2,723 4,366	Τe	420 2,254 3,637	452 2,696 4,360 136	225 970 1,585 58	224 1,648 2,490 71	25	3 53 204 2	1, 237, 160 7, 450, 378 13, 237, 086 728, 287
_							CO	TTON I	LACE.									
1	United States	44	-,	li====			179	6,490		7,300		5,941	7,441	3,374		244	318	32, 260, 216
2 3 4 5 6 7	Connecticut New Jersey New York Pennsylvania. Rhode Island. All other states 6.	A	808 237 914 3,487 1,010 740	3 1 2 1	38	19 16 20 175 12 50	18 33 78 22 27	728 202 822 3,140 941 657	De Au De De De	815 239 951 3,504 1,124	Fe Ap My	579 171 736 2,875 801	815 244 957 3,575 1,165 685	378 90 547 1,512 582 265	396 139 382 1,712 468 408	176 35	36 5 16 175 80 6	3, 854, 165 952, 588 3, 815, 085 17, 230, 889 4, 712, 243 1,695, 246

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 Same number reported for or 3 or more other months.

BY STATES: 1919—Continued.

			16.2	CPENSES.								P	ower.			
Salaı	ries and wa	ges.		Rent a	nd taxes.	For mat	terials.				Prin	ary ho	rsepow	er.		Elec-
								Value of products.	Value added by manufac-			Owi	ied.			tric horse- power
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	produces	ture.	Total.	Steam en- gines (not tur- bines)	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Water pow- er.1	Rent- ed.	generated in establishments reporting.
						COT	TON SMAI	LL WARES	•							
Dollars. 1,679,774	Dollars. 695, 268	Dollars. 7, 162, 218	Dollars. 211,028	Dollars. 184, 507	Dollars. 1,369,101	Dollars. 23, 498, 348	Dollars. 541,603	Dollars. 40, 898, 835	Dollars. 16, 856, 884	14,263	5,907		126	1,783	6, 447	1,512
26, 107 37, 200 392, 001 4, 880 58, 265	63,063	78, 390 159, 455 1, 238, 705 97, 275 149, 663	20,047		22, 844 7, 704 253, 476 4, 226 5, 845	153, 133 513, 641 5, 122, 118 238, 956 391, 505	12,800 15,435 123,367 6,429 8,444	415, 773 900, 870 8, 250, 308 405, 537 771, 049	249, 840 371, 794 3, 004, 823 160, 152 371, 100	145 220 2,722 85 258	10 35 520 150		31 10 65	35 225 45	100 185 1,946 30 43	15 60 4
117, 156 398, 388 596, 241 49, 536	53, 565 173, 773 331, 963 6, 415	368, 237 1, 693, 962 3, 273, 984 102, 547	49,014	44,900	12, 390 259, 615 787, 473 15, 528	1, 191, 593 5, 589, 452 9, 759, 437 538, 513	24, 417 106, 054 232, 589 12, 068	2, 064, 749 9, 363, 572 17, 824, 321 900, 656	848,739 3,668,066 7,832,295 350,075	670 2, 054 7, 728 381	1,211 3,466 100		20	1,438 40	255 823 2,824 241	76 263 1,094
1			-				COTTON	LACE.								
977, 540		6,086,55				12,676,005	·	29, 396, 853	16, 320, 859		6, 423	28	77	175		
180, 167 51, 602 204, 454 377, 144 132, 793 81, 880	43,619 44,980 57,338 731,189 49,627 120,148	2,776,989 969,98	22, 17' 39, 924 7 3, 78 2 46, 11' 7 120, 54' 5 25, 50'	2 480 6 6.489	561, 538	1, 185, 707 409, 116 1, 927, 996 6, 216, 894 1, 811, 763 1, 124, 529	39, 611 10, 616 64, 285 193, 423 60, 572 31, 482	3, 087, 539 998, 722 4, 146, 000 14, 813, 995 4, 110, 419 2, 240, 178	1, 862, 221 578, 990 2, 153, 719 8, 403, 678 2, 238, 084 1, 084, 167	605 149 1,370 5,185 1,181 588	1, 028 4, 483 350 568)	15 22 40	35 120 20	662	1.381

⁴ All other states embrace: Georgia, 1 establishment; Kentucky, 1; Maryland, 1; Nebraska, 1; and Ohio, 1. ⁵ All other states embrace: Illinois, 1 establishment; New Hampshire, 2; and Ohio, 1.

KNIT GOODS.

By ARTHUR J. LECK.

GENERAL STATISTICS.

General character of the industry.—The classification "knit goods" includes establishments whose product is the result of knitting, either by power or hand machine, without regard to whether the yarns are of cotton, wool, silk, or other material.

In addition to the general statistics which follow, special statistics relating to materials, products, and equipment have been prepared from supplemental reports, the form of which was designed for the exclusive use of the knit-goods industry, and these statistics are presented herewith in two sections.

"Section 1," like the general statistics, relates to the industry as a whole, many of the tables being comparative for a number of census years. "Section 2" is the result of sorting the reports for the industry into five groups, comprising establishments whose chief product according to value in 1919 was hosiery, underwear, fancy knit goods, knitted cloth, and contract work, a separate tabulation being made for each. These groups, except for "contract work," are industries within themselves, having many separate interests and independent trade associations, each one sufficiently large and important, in relation to other industries, to warrant a segregation of statistics for the industry as a whole into these five parts. As the report of the census of 1919 was the first publication of information based on the plan of "Section 2," comparative figures with other years are not available.

Comparative summary.—Table 1 gives a general summary of the progress of the industry from 1899 to 1919, inclusive.

Principal states, ranked by value of products.—The rank of the principal states by value of products in 1919 is shown in Table 2. The same is expressed in the form of a diagram which follows and makes a comparison with the value of products reported for 1914.

Persons engaged in the industry.—A division, by sex, of the number of persons engaged in the manufacture of knit goods is presented in Table 3. In the wage-earner class females predominated at each census period.

Wage earners, by months, for states.—The regularity with which the wage earners are employed in the industry throughout the year is evidenced by Table 4, for 1919, 1914, and 1909. Figures are presented by states for 1919.

Wage earners, per cent distribution, by sex and age, for states.—Table 5 gives a distribution in percentages

for the number of wage earners, male and female, according to age, employed in the various states which lead in the manufacture of knit goods.

Number of spinners, knitters, etc., by sex and age, for selected states.—The number of wage earners with reference to their occupation is shown in Table 6, by sex and age, for the United States and for the two leading states, New York and Pennsylvania.

Prevailing hours of labor.—Table 7 shows a marked shortening of the working day between 1909 and 1919. In 1909 the largest number of wage earners for any one group was reported as working between 54 and 60 hours per week as compared with 54 hours in 1914 and 48 hours in 1919.

Size of establishments, by average number of wage earners.—Statistics relating to the size of establishments as measured by the average number of wage earners employed in the industry are presented in Table 8 for the United States, for 1919 and 1914, and for the principal states for 1919.

Size of establishments, by value of products.—Table 9 gives the relation of the value of products to the number of establishments engaged in the manufacture of knit goods for the United States during 1919, 1914, and 1909. At the censuses of 1909 and 1914 establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups in the case of all items for 1909, and in the case of average number of wage earners and value added by manufacture for 1914.

Character of ownership.—That the corporate form of ownership prevails in the industry is revealed in Table 10, based on the number of establishments, average number of wage earners, and value of products.

Number and horsepower of types of prime movers.—The various types of power, with horsepower for each type, used in the manufacture of knit goods is shown for 1919, 1914, and 1909 in Table 11.

Fuel consumed, by states.—Table 12 gives the different kinds of fuel for the industry in the United States and for each state in 1919 compared with 1914.

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

	•					PE	R CENT OF	INCREASE	g.1
	1919	1914	1909	1904	1899	1914- 1919	1909- 19 14	190 4 1909	1899- 1904
Number of establishments	2,050	1,622	1, 374	1,144	1,006	26.4	18.0	20.1	13.7
Persons engaged Proprietors and firm members Salaried employees. Wage earners (average number)	186, 673 1, 488 12, 613 172, 572	159, 673 1, 208 7, 855 150, 520	136, 130 1, 134 5, 721 129, 275	109, 489 1, 067 4, 330 104, 092	(2) (2) 2, 831 83, 691	16.9 14.6 60.6 14.7	17.3 14.5 37.3 16.4	24.3 6.3 32.1 24.2	52.9 24.4
Primary horsepower	151, 601 \$516, 457, 901	125, 842 \$215, 826, 340	103, 709 \$106, 641, 171	78,769 \$106,943,072	57, 346 \$82, 065, 517	20.5 139.3	21.3 31.9	31.7 53.0	37. 4 30. 3
Salaries and wages. Salaries Wages.	157, 526, 402 32, 326, 582	71, 039, 186 11, 281, 035 59, 758, 151	52, 431, 680 7, 691, 457 44, 740, 223	36, 069, 758 4, 455, 151 31, 614, 607	27, 572, 657 3, 138, 160 24, 434, 497	121.7 186.6 109.5	35. 5 46. 7 33. 6	45. 4 72. 6 41. 5	30.8 42.0 29.4
Paid for contract work. Rent and taxes. Cost of materials Value of products. Value added by manufacture 4	25, 966, 579	3, 239, 695 2, 355, 597 146, 687, 458 258, 912, 903 112, 225, 445	2, 158, 078 1, 345, 341 110, 241, 053 200, 143, 527 89, 902, 474	786, 215 ⁸ 934, 331 76, 789, 348 137, 076, 454 60, 287, 108	1, 141, 828 ³ 711, 030 51, 195, 330 95, 833, 092 44, 638, 362	162.2 1,002.3 191.2 175.4 154.9	50.1 75.1 33.1 29.4 24.8	174.5 44.0 43.6 46.0 49.1	-31.1 31.4 50.0 43.0 35.1

¹ A minus sign (—) denotes decrease.

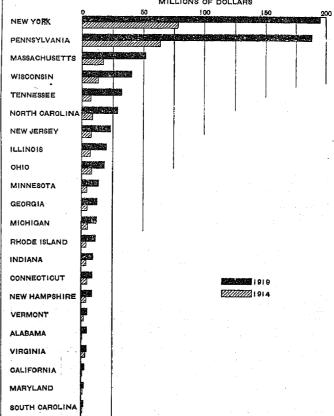
UTAH

Table 2.—Principal States, Ranked by Value of Products: 1919.

						V2VL	. 22 - 44			-
	of nts.	WAGEI	EARNE	RS.		UE OF DUCTS.		VALUE . MANUI		
STATE.	Number of establishments.	Average number.	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.
United States	2, 050	172, 572	100.0		\$713, 140	100.0		\$286,044	100.0	
New York	682 606 77 72 63	41, 372 44, 156 12, 751 8, 736 10, 308	24.0 25.6 7.4 5.1 6.0	2 1 3 6 4	195, 377 188, 261 52, 424 40, 778 32, 952	27. 4 26. 4 7. 3 5. 7 4. 6	1 2 3 4 5	80, 411 71, 564 21, 252 16, 561 12, 607	28.1 25.0 7.4 5.8 4.4	1 2 3 4 5
North Carolina New Jersey Illinois Ohio Minnesota	121 90 58 34 16	10, 216 4, 853 5, 095 4, 407 8, 564	5.9 2.8 3.0 2.6 2.1	5 8 7 9 11	29, 834 23, 853 20, 460 18, 779 13, 985	4. 2 3. 3 2. 9 2. 6 2. 0	6 7 8 9 10	12, 251 8, 503 8, 759 7, 700 6, 498	4.8 3.0 3.1 2.7 2.3	6 8 7 9 10
Georgia	28 31 26 8 21	3,808 3,170 1,983 2,675 2,649	2.2 1.8 1.1 1.6 1.5	10 12 16 14 15	12, 567 12, 039 11, 036 9, 802 9, 333	1.8 1.7 1.7 1.4 1.3	11 12 13 14 15	5,752 5,249 4,547 4,187 3,984	2.0 1.8 1.6 1.5 1.4	11 12 13 14 15
New Hampshire Vermont	16 17 10 10 21	2,979 1,105 1,655 1,578 695	1.7 0.6 1.0 0.9 0.4	13 19 17 18 22	9,016 5,063 4,757 4,685 2,878	1.3 0.7 0.7 0.6 0.4	16 17 18 19 20	3,897 1,969 1,482 1,782 1,361	1.4 0.7 0.5 0.6 0.5	16 17 19 18 20
Maryland South Carolina Utah Washington All other states	7 14 10 8 14	749 781 198 105 2,984	0.4 0.5 0.1 0.1 1.7	21 20 24 25	2,687 2,076 1,156 401 8,041	0.4 0.3 0.2 0.1 1.1	21 22 23 25	915 830 369 241 3,373	0.3 0.3 0.1 0.1 1.2	21 22 24 25

KNIT GOODS—VALUE OF PRODUCTS FOR STATES: 1919 AND 1914.

MILLIONS OF DOLLARS



² Figures not available.

³ Exclusive of internal revenue.

 $^{{}^4}$ Value of products less cost of materials.

MANUFACTURES.

TABLE 3.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

	Cen-	m 4 1	16-1-	Fe-		CENT OTAL.	CLASS.	Cen-	Total.	Male.	Fę-	PER C	
CLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male.	GLASS.	year.			male.	Male.	Fe- male
All classes	1919 1914 1909	186,673 159,673 136,130	60, 563 51, 335 43, 950	126, 110 108, 338 92, 180	32. 4 32. 2 32. 3	67.6 67.8 67.7	Clerks and other subordinate salaried employees.	1919 1914 1909	7,403 5,187 3,547	3,718 3,125 2,398	3,685 2,062 1,149	50.2 60.2 67.6	49, 8 39, 8 32, 4
Proprietors and officials	1919 1914 1909	6,698 3,966 3,308	6,224 3,782 3,125	474 184 183	92. 9 95. 4 94. 5	7.1 4.6 5.5	Wage earners (average number)	1919 1914 1909	172, 572 150, 520 129, 275	50, 621 44, 428 38, 427	121, 951 100, 092 90, 848	29.3 29.5 29.7	70.7 70.5 70.3
Proprietors and firm members	1919 1914 1909	1,488 1,298 1,134	1,424 1,238 1,067	64 60 67	95.7 95.4 94.1	4.3 4.6 5.9	16 years of age and over	1919 1914 1909	163, 222 141, 533 118, 769	47, 920 41, 874 35, 383	115, 302 99, 659 83, 386	29. 4 29. 6 29. 8	70. 6 70. 4 70. 2
Salaried officers of corporations	1919 1914 1909	1,933 1,050 799	1,868 1,019 781	65 31 18	96. 6 97. 0 97. 7	3.4 3.0 2.3	Under 16 years of age	1919 1914 1909	9,350 8,987 10,506	2,701 2,554 3,044	6,649 6,433 7,462	28. 9 28. 4 29. 0	71.1 71.8 71.0
Superintendents and managers.	1919 1914 1909	3,277 1,618 1,375	2,932 1,525 1,277	845 93 98	89. 5 94. 3 92. 9	10.5 5.7 7.1							

TABLE 4.-WAGE EARNERS, BY MONTHS, FOR STATES: 1919.

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

,	Aver- age		NUMBI	er emplo	YED ON I	5TH DAY	OF THE 1	AONTH OF	NEARES	T REPRES	ENTATIVI	DAY.		Per cent
STATE.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	Мау.	June,	July.	August.	Septem- ber.	Octo- ber.	Novem- ber.	Decem- ber.	mini- mum is of maxi- mum,
United States: 1919 Males Formales 1914	49, 891 122, 681	168, 304 47, 982 120, 322 152, 974 123, 308	163, 582 45, 926 117, 658 155, 683 125, 181	160, 458 46, 137 116, 301 157, 636 128, 052	162, 956 46, 709 116, 247 157, 054 129, 317	166, 713 48, 201 118, 422 155, 273 129, 270	168'617 49,445 119,172 153,071 128,890	173, 887 50, 709 123, 178 148, 572 127, 845	177, 339 51, 885 125, 454 142, 779 128, 231	177, 244 51, 576 125, 668 143, 747 130, 329	181, 315 52, 759 128, 556 147, 513 132, 997	184, 046 53, 651 130, 395 146, 356 134, 540	186, 423 54, 622 131, 801 145, 582 133, 340	86.1 82.6 87.5 90.6 91.7
Alabama. California. Connecticut. Georgia. Illinois.	1, 655 695 2, 649 3, 808 5, 095	1, 646 604 2, 500 3, 956 5, 017	1,652 614 2,573 3,609 5,017	1,653 613 2,579 3,518 4,986	1,648 645 2,587 3,549 4,940	1,655 631 2,606 3,594 5,068	1,625 682 2,622 3,701 5,090	1,621 709 2,738 3,726 5,183	1,634 703 2,716 3,698 5,160	1,666 688 2,726 3,959 5,124	1, 691 748 2, 702 4, 054 5, 185	1, 679 833 2, 721 4, 142 5, 213	1,690 875 2,718 4,196 5 ,159	95.9 69.0 91.3 83.7 94.8
Indiana Maryland Massachusetts Michigan Minnesota	2, 675 749 12, 751 3, 170 3, 564	2, 684 732 12, 722 8, 201 3, 972	2,699 730 12,501 3,175 4,170	2, 641 672 12, 484 3, 058 4, 171	2,651 648 12,402 3,115 4,065	2,647 702 11,970 3,001 3,900	2,629 737 12,117 2,971 3,712	\$,627 773 12,432 3,097 8,367	2,663 754 12,603 3,188 3,129	2,681 737 12,954 3,121 8,087	2,695 811 13,353 3,352 3,106	2,730 824 13,499 3,345 3,063	2,753 873 13,975 3,416 5,026	95.4 73.7 85.7 87.0 72.5
New Hampshire. New Jorsey New York North Carolina Ohio	10,210	3, 021 4, 545 40, 941 10, 479 3, 877	2,981 4,648 39,942 10,058 8,586	2,897 4,755 87,408 9,669 3,688	2,890 4,705 38,890 9,753 3,850	2,950 4,721 40,246 9,896 4,006	2,998 4,679 39,741 10,081 4,263	2,648 4,887 41,427 10,031 4,525	3,018 4,932 42,812 10,138 4,879	3,038 4,900 42,140 10,232 4,863	3,093 5,100 43,079 10,479 5,075	2,986 5,184 44,281 10,868 5,123	3,228 5,180 45,567 10,908 5,149	82.0 87.7 82.1 88.6 69.6
Pennsylvania Rhode Island South Carolina Tennessee Utah	1,983	41, 704 1, 945 784 10, 015 129	39,464 1,871 768 9,685 142	39, 708 1, 835 761 9, 545 147	40,226 1,857 781 9,605 163	42,305 1,920 753 9,960 179	43,387 1,960 728 10,355 211	45,676 2,024 773 10,435 222	46,655 2,033 799 10,655 242	46, 885 2, 069 805 10, 658 244	47, 556 2, 053 837 10, 839 235	10,930	48,086 2,138 835 11,014 225	82.0 85.8 86.4 86.7 52.0
Vermont Virginia Washington Wisconsin	.1 105	1, 113 1, 214 72 8, 508	1,122 1,207 68 8,410	1, 144 1, 249 67 8, 278	1,099 1,417 64 8,428	1,109 1,437 72 8,379	1,159 1,606 82 8,506	1,163 1,759 100 8,904	119	949 1,806 133 8,855	1,033 1,804 161 9,087	1,831 160	1,108 1,817 164 9,308	79. 2 65. 9 39. 0 88. 9 Per ct.
States showing large proportion of females.														av. is of state.
Alabama. Connectleut. Georgia. Illinois. Masachusetts. Minnesota.	1,709 2,283 3,645 9,049	1,077 1,597 2,361 3,582 9,072 3,416	1,084 1,650 2,117 3,602 8,918 3,575	1, 081 1, 669 2, 060 3, 560 8, 875 3, 593	1,663 2,155 3,568 8,774	3,646 8,502	1, 060 1, 685 2, 246 3, 651 8, 613 3, 094	1,053 1,775 2,242 3,719 8,898 2,778	1,754 2,184 3,679 8,988	1,766 2,387 3,656 9,220	1, 105 1, 752 2, 421 3, 687 9, 521 2, 551	2,488 3,723 9,581	1,109 1,754 2,529 3,667 9,626 £,498	65.3 64.5 60.0 71.5 71.0 83.8
Ne w Jersey North Carolina Pennsylvania Tennessee Wisconsin	.1 7.489	3,801 6,495 32,412 7,291 6,474	30,842 7,051	5,931 31,152 6,910	6,009 30,871 6,992	6,070 32,215 7,230	32,786 7,520	3,775 6,111 34,690 7,562 6,792	35, 450 7, 682	6, 291 35, 610 7, 728	7,916	6,706 36,137 7,966	3,967 6,733 36,445 8,020 7,095	77.8 61.5 76.4 72.7 76.0

TABLE 5.—PER CENT DISTRIBUTION OF WAGE EARNERS, FOR STATES: 1919 AND 1914.

		Wage	PER (CENT OF	FOTAL.			Wage	PER CE	NT OF TO	TAL.
STATE,	Census year.	earners (average num-	16 year	s of age over.	Under 16	STATE.	Census year.	earners (average num-	16 years and c	of age	Under 16
	_	ber).	Male.	Fe- male.	years of age.			ber).	Male.	Fo- male.	years of age.
United States	1919 1914 1909	172, 572 150, 520 129, 275	27.4 27.8 27.4	67.2 66.2 64.5	5. 4 6. 0 8. 1	New Jersey New York	1919 1914 1919 1914	4, 853 4, 025 41, 372 40, 095	21.7 37.3 34.7 34.2	73. 1 59. 4 64. 3 63. 8	5.2 3.3 1.0 2.0
Alabama. California ¹ . Connecticut.	1919 1914 1919 1919 1914	1,655 781 695 2,649 2,904	33. 5 25. 9 14. 4 33. 5 30. 1	63.7 58.5 85.0 59.8 67.3	2. 8 15. 6 0. 6 6. 7 2. 5	North Carolina	1919 1914 1919 1914	10, 216 7, 787 4, 407 3, 411	36.3 30.8 20.6 22.9	51. 8 52. 4 78. 3 76. 4	11. 9 16. 8 1. 1 0. 7
GeorgiaIllinois	1919 1914 1919 1914	3,808 3,468 5,095 3,535	36. 8 35. 0 27. 3 31. 2	55.7 56.2 69.0 66.5	7. 5 8. 8 3. 6 2. 3	Pennsylvania	1919 1914 1919 1914	44,156 41,130 1,983 2,030	21. 2 21. 0 23. 8 18. 9	70.8 69.5 69.7 75.4	8.0 9.4 6.5 5.7
Indiana Louisiana ¹	1914 1919 1919	2, 675 2, 338 533 749	32.6 29.4 18.2	60.5 63.3 54.6	6.8 7.3 27.2	South Carolina Tennessee. Utah 1.	1919 1914 1919 1914 1919	781 771 10, 308 5, 690 198	40.1 34.2 25.9 33.1 8.6	54.4 44.9 69.1 58.6 89.4	5.5 20.9 5.0 8.3 2.0
Massachusetts	1914	1,077 12,751 10,635 3,170 2,714	22. 9 27. 5 25. 9 23. 8 24. 4	73.4 67.8 72.2 74.3 74.1	3.7 4.7 1.0 1.9 1.5	Vormont	1919 1914 1919 1914	1, 105 963 1, 578 2, 272	32. 2 36. 0 26. 9 34. 8	67.6 63.6 66.4 53.9	0.2 0.4 6.7 11.3
Minnesota New Hampshire	1914	3, 564 2, 088 2, 979 3, 328	16, 2 14, 5 30, 1 30, 5	83.8 85.5 67.5 66.8	(2) (2) (2) 2. 4 2. 7	Washington 1. Wisconsin	1919 1919 1914	105 8,736 6,244	15.2 20.1 21.8	84. 8 66. 7 72. 6	13.2 5.6

¹ Figures not available for 1914.

Table 6.—WAGE EARNERS DISTRIBUTED BY OCCUPATION, AGE, AND SEX, FOR SELECTED STATES: 1919, 1914, AND 1909.

(On Dec. 15, or nearest representative date.)

OCCUPATION AND STATE.	Cen-	Total.	16 YEAR AND		UNDE YEARS (OCCUPATION AND STATE.	Cen-	Total.		S OF AGE OVER.	UNDE YEAR AG	SOF
	year.		Male.	Female.	Male.	Fe- male.		year.		Male.	Female.	Male.	Fe- male.
United States, total	1919 1914 1909	187, 746 153, 438 136, 713	52,134 42,693 37,419	125, 440 101, 586 88, 183	2,938 2,602 3,219	7, 234 6,557 7,892	New York—Continued. Stitchers, loopers, and finishers	1919 1914	20, 211 18, 310	3,373 1,659	18, 719 16, 392	34 76	85 183
Spinners	1919 1914 1909	3,438 3,657 3,133	2,856 2,610 2,078	944 955 839	72 47 116	66 45 100	All other	1919 1914	18,786 16,519	7,739 7,454	10, 721 8, 551	89 4 7	237 467
Knitters	1919 1914	42,397 36,764	14,500 12,228	25,898 21,640	389 806	1,610 2,090 2,397	Per cent of total: Spinners	1919 1914	3.3 4.9	8.1 11.5	0.6 1.5	2.9 2.9	1.5 0.8
Olitical and language and Ambahana	1909	36, 193 64, 290	9,994	22,973 56,526	829 228		Knitters	1919 1914	12.6 10:3	23.9 23.7	6.4 3.3	9.3 9.3	0.9 1.4
Stitchers, loopers, and finishers	1914 1909	61,459 53,818	5,956 9,462 6,991	48, 642 48, 627	1,142 857	1,580 2,213 2,343	Stitchers, loopers, and finishers.	1919 1914	43.6 44.6	20.6 11.8	56.6 62.6	24.3 54.3	25.8 27.0
All other	1919 1914 1909	77,621 51,558 43,569	29,322 18,393 18,356	42,072 30,349 20,744	2,249 607 1,417	3,978 2,209 3,052	All other	1919 1914	40.5 40.2	47.3 53.0	36.3 32.6	63.6 33.6	71.8 70.3
Per cent of total: Spinners	1919	1.8	4.5 6.1	0.8 0.9	2.5 1.8	0.9 0.7	Pennsylvania, total	1919 1914	48, 357 41, 832	10,485 8,801	34,019 29,081	1,181 930	2,672 3,020
10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (1914 1909	2.4 2.3	5.6	1.0	3.6	1.3	Spinners	1919 1914	104 89	86 68	16 19	$\frac{2}{2}$	
Knitters	1919 1914 1909	22.6 24.0 26.5	27.8 28.6 26.7	20.6 21.3 26.1	13.2 31.0 25.8	31.9 30.4	Knitters	1919 1914	14,749 14,648	3,958 3,268	9,930 10,155	133 176	728 1,049
Stitchers, loopers, and finishers.	1919 1914	34.2 40.0	11.4 22.2	45.1 47.9	7.8 43.9	21.8	Stitchers, loopers, and finishers	1919 1914	16,325 14,802	740 2,523	14,981 10,946	86 346	
All other	1909 1919	39.4 41.3	18.7 56.2	49.5 33.5	26.6 76.5	29.7 55.0	All other	1919 1914	17,179 12,293	5,701 2,942	9,092 7,961	960 406	
	1914 1909	33.6 31.9	43.1 49.1	29.9 23.5	23.3 44.0	33.7	Per cent of total: Spinners	1919 1914	0.2 0.2	0.8 0.8	(¹) 0.1	0.2	
New York, total	1919 1914	46,346 41,064	10,357 14,060	29, 519 26, 200	140 140	380 664	Knitters	1919 1914	30.5 35.0	37.7 37.1	29. 2 34. 9	11.3 18.9	
Spinners	1919 1914	1,519 2,015	1,330 1,616	180 390	4 4	5 5	Stitchers, loopers, and finishers	1919 1914	33.8 35.4	7.1 28.7	44.0 37.6	7.3 37.2	19,4 32.7
Knitters	1919 1914	5, 880 4, 220	3,915 3,331	1,899 867	13 13	9	All other	1919 1914	35.5 29.4	54.4 33.4	26.7 27.4	81.3 43.7	

¹ Less than one-tenth of 1 per cent.

² Less than one-tenth of 1 per cent.

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

			IN 1	ESTABL HOURS															THE PI		ING
STATE.	Cen- sus year.	Total.	and un- der.	Be- tween 44 and 48.	48.1	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Over 60.	STATE,	Cen- sus year.	Total.	44 and un- der.	Be- tween 44 and 48.	48,1	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	O ve 60.
United States	1914	172, 572 150, 520 129, 275	7, 818 (2) (2)	4,701 (2) (2)	54, 674 3, 673 908	46,149 7,860 3,331	87, 549	23, 909 34, 269 65, 422	16, 515	663	New Jersey	1919 1914	4, 853 4, 025	462 (2)	114 (²)	980 73	2, 552 171	582 363	163 3,328	90	-::-
Mabama	1919 1914	1,655 781				216		1,121 174*	315		New York	1919 1914	41, 372 40, 095	5,029 (1)	2,495 (*)	16,000 20 9	7,469 3,827	5,590 30,382	4,027 2,145	406 3,127	35 40
California 1	1919	695	146	21	529	ļ					North Carolina	.1919 1914	10, 216 7, 787	12		453	3,816	623 6	3,569 683	1,743 7,080	_i
Connecticut	1919 1914	2,649 2,904	24 (2)	25 (2)	409 323	908 396	541	1,283 1,644			Ohio	1919 1914	4,407 3,411	7 (2)	184 (2)	374 64	3,333 205	286 3,035	203 107	20	
Jeorgia	1919 1914	3, 808 3, 468				635	1, 077	1,029 896	1,067 2,346	226	Pennsylvania	1919	44, 156	1,415	454	16.027	9, 725	15.400	600	535	
Rinois	1919 1914	5, 095 3, 535	509 (²)	657 (2)	989 266	2,066 525	511	872 1,786	447		Rhode Island	1919	1,983 2,030	(2)	(2)	1, 235	34	34,353 714		364	
ndiana	1919 1914	2,675 2,338				2,179 10	495	1 2.328			South Carolina	1914	2,030 781	(2)	(2)	305 7	10	1,519 26	196 456	289	
Louisiana	1919	533				30	92	411			Tennessee	1914	771			•••••			120	651	
Maryland	1019 1914	749 1,077				206 12	97	446 1,001	64			1919 1914	10,308 5,690		116	625	1,918		4, 408 4, 994	696	
Massachusetts	1919 1914	12, 751 10, 635	25 (2)	14 (2)	12,292	60 496	236 9, 702	124 409	<u>.</u>		Utah 8 Vermont	1919	198 1,105	53	74 168	71 56	340	•••••	541		
Michigan	1919 1914	3, 170	34	13	921 26	1,431	771					1914	963				••••		702	261	
Minnesota	1919	3, 564	(2)	(2) 80	403	3,080	2,315	172	••••		Virginia	1919 1914	1,578 2,272	•••••	221		270	699 172	388 1,778	308	i
New Hampshire	1914	2, 088 2, 979	(*)	(2)	35 2,686	173	2, 021 120	•••••	•••••		Washington 8 Wisconsin	1919 1919	105	37		68				•••••	
	1914	3, 328				3		2,664			TT LECOHESIN	1914	8,736 6,244	64 (²)	(2)	155 1,085	5, 419 300	262 1,660	2, 835 3, 160	39	

¹ Includes 48 and under for 1914 and 1909.

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

•	TC	TAL.					1		EST	ablisi	IMENTS 1	EMPLO	YING						
STATE.	Establishments.	Wage earners (average number).	No wage earn- ers.	ear:	to 5 age ners, nsive.	ear	to 20 vage rners, usive.	ear	to 50 vage rners, lusive.	ean	to 100 vage ners, usive.	v ear	to 250 rage rners, usive.	v ear	to 500 vage ners, usive.	w ear	o 1,000 age ners, usive.	1 7	r 1,000 vage ners.
	Establis	Wage (аvегаде	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage carners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
United States1919 1914	2,050 1,622	172, 572 150, 520	82 47	379 295	1,026 849	472 3 0	5,786 4,445	379 291	13,150 9,738	308 257	22,146 19,071	274 232	44, 106 36, 843	105 92	36, 249 31, 896	37 35	24,777 25,256	14 13	25, 33 22, 42
Alabama. California Connecticut Georgia Illinois	10 21 21 28 58	1, 655 695 2, 649 3, 808 5, 095	1 1 7	5 2	14 4 25	8 9	104	1 3 4 13 6	25 111 97 473 234	3 3 2 4 7	205 241 166 290 516	3 1 9 9	529 225 1,430 1,674 1,378	3	896 952 2,245	2 1	1,371		
Indiana Maryland Massachusetts Michigan Minnesota	8 7 77 31 16	2, 675 749 12, 751 3, 170 3, 564	 3 1	1 13 3 4	1 43 6 7	12 7 7	149 93 73	2 2 13 6	94 65 483 224 43	$\begin{array}{c} 1 \\ 2 \\ 12 \\ 7 \\ 1 \end{array}$	55 167 809 554 74	1 3 13 3	220 517 1,982 432	2 5 2 1	793 1,716 826 354	4 2	2, 299 1, 035	1 2	1, 51 5, 27 3, 01
New Hampshire New Jersey New York North Carolina Ohio	16 90 682 121 34	2,979 4,853 41,372 10,216 4,407	4 41 1	25 221 12 3	59 614 27 9	28 192 26 7	333 2,193 362 104	3 13 73 34 2	88 427 2,497 1,160 98	3 9 51 32 7	291 730 3,711 2,225 494	6 3 66 10 8	950 550 10,197 1,568 1,368	3 7 23 4 6	1,066 2,061 8,297 1,296 2,334	1 1 12 1	584 693 8, 699 671	3 2	5, 16 2, 90
Pennsylvania Rhode Island South Carolina Tonnessee. Utah.	606 26 14 63 10	44,156 1,983 781 10,308 198	11	61 3 1 1 2	177 9 8 4 7	141 7 4 3 5	1,880 79 46 31 65	162 4 5 11 2	5, 618 150 159 366 68	123 8 1 18	8,721 229 78 1,269 58	76 9 2 19	12,537 1,516 237 3,258	23 1 7	7, 548 258 2, 445	7	4,620 2,935	2	3,05
Vermont Virginia Washington Wisconsin	7 10 8 72	1,105 1,578 105 8,786	3 6	10	 17	3 13	31 143	1 2 15	39 74 527	3 2 8	219 169 474	3 6	447 1,081 1,297	1 1	439 289 2, 023	······································	1,273	2	2,98

² Corresponding figures not available.

³ Not shown separately in 1914.

TABLE 9.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF FRODUCT.		UMBER BLISHM			GE NUME GE EARNI		VAL	UE OF PRODUC	yrs.	VALUE AD	DED BY MANU	FACTURE.
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes	2,050	1,622	1, 374	172, 572	150,520	129, 275	\$713, 139, 689	\$258, 912, 903	\$200, 143, 527	\$286,044,129	\$112, 225, 445	\$89, 902, 474
Less than \$5,000 . \$5,000 to \$20,000 . \$20,000 to \$100,000 . \$100,000 to \$500,000 . \$500,000 to \$1,000,000 . \$1,000,000 and over	145 251 589 717 184 164	194 320 553 437 71 47	129 221 534 } 465 25	113 1,104 10,718 46,067 31,252 83,318	395 2, 928 18, 901 } 82, 751 45, 545	296 2,418 20,712 82,160 23,689	390, 698 2, 852, 214 31, 303, 774 { 168, 890, 243 128, 609, 577 381, 093, 183	476, 663 3, 831, 526 28, 146, 728 95, 347, 054 47, 157, 418 83, 953, 514	319, 050 2, 627, 769 27, 241, 283 } 182, 829, 875 37, 125, 550	221, 052 1, 560, 100 12, 675, 788 { 65, 386, 471 49, 676, 438 156, 524, 280	283, 745 1, 851, 970 12, 136, 548 } 59, 256, 581 38, 696, 601	161, 186 1, 340, 950 12, 209, 812 57, 982, 495 18, 208, 031
							PER CENT	DISTRIBUTION.				,
All classes	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 . \$5,000 to \$20,000 . \$20,000 to \$100,000 . \$100,000 to \$500,000 . \$500,000 to \$1,000,000 . \$1,000,000 and over .	7.1 12.2 28.7 35.0 9.0 8.0	12. 0 19. 7 34. 1 26. 9 4. 4 2. 9	9. 4 16. 1 38. 9 33. 8 1. 8	0.1 0.6 6.2 20.7 18.1 48.3	0.3 1.9 12.6 55.0 30.3	0. 2 1. 9 16. 0 63. 6 18. 3	0.1 0.4 4.4 23.7 18.0 53.4	0. 2 1. 5 10. 9 36. 8 18. 2 32. 4	0. 2 1. 3 13. 6 60. 4 18. 5	$ \begin{cases} 0.1 \\ 0.5 \\ 4.4 \\ 22.9 \\ 17.4 \\ 54.7 \end{cases} $	0. 3 1. 7 10. 8 52. 8 34. 5	0. 2 1. 5 13. 6 64. 5 20. 3

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

			MBER (ΑVI	ERAGE 1	NUMBER	OF WA	GE EAR	NERS.			V /	LUE OF PROT	oucts.			
STATE.	Cen- sus year.		LISHMI NED BY			In est	tablishm vned by-	ents	Per ce	ent of i	otal.		Of establ	ishments own	ned by—	Per ce	mt of t	tota
	y ear.	Indi- vid- uals.		All oth- ers.	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora-	Al otl ers
United States	1919 1914 1909	564 519 443	1,096 785 651	390 318 280	172, 572 150, 520 129, 275	9, 986 13, 907 16, 453	147, 052 120, 697 93, 174	15, 534 15, 916 19, 648	5. 8 9. 2 12. 7	85. 2 80. 2 72, 1	9, 0 10, 6 15, 2	\$713, 139, 689 258, 912, 903 200, 143, 527	\$47, 200, 801 23, 319, 057 24, 852, 520	\$593, 140, 241 208, 404, 357 142, 021, 832	\$72,798,647 27,189,489 33,269,175	6. 6 9. 0 12. 4	83. 2 80. 5 71. 0	10 10 10
labama 1	1919	1	9		1,655	•••••	² 1, 655			100.0		4,757,008		2 4, 757, 008			100.0	
alifornia 1	1919	7	11	3	695	52	614	29	7.5	88, 3	4.2	2,878,226	197, 223	2, 489, 863	191,140	6.9	86.5	e
onnecticut	1919 1914	1 3	18 18	2 4	2, 649 2, 904		³ 2, 649 2, 849	² 55		100.0 98.1	1,9	9, 332, 776 5, 221, 683		³ 9, 332, 776 5, 082, 303	2 139, 380		100.0 97.3	2
eorgia 1	1919	1	26	1	3,808		8 3 , 808			100.0		12, 566, 787		³ 12, 566, 787			100.0	
linois	1919 1914	19 16	33 27	6 3	5,095 3,535	36 4 190	4, 927 3, 345	132	0.7 5.4	96.7 94.6	2.6	20, 460, 360 7, 367, 235	227, 237 4 359, 873	19, 480, 780 7, 007, 362	752, 343	1.1 4.9	95. 2 95. 1	
ndlana 1	1919	1	7		2,675		2 2, 675			100.0		. 9,801,928		2 9, 801, 928			100,0	
faryland¹,	1919		6	1	749		4 749			100.0		2,687,496		4 2, 687, 496			100.0	
fassachusetts	1919 1914	16 23	51 44	10 10	12,751 10,635	223 254	11, 700 9, 601	828 780	1.7 2.4	91.8 90.3	6. 5 7. 3	52, 424, 235 17, 419, 077	1,058,752 582,786	45, 701, 425 14, 312, 311	5,664,058 2,523,980	2,0 3,3	87. 2 82. 2	1
iichigan	1919 1914	6 5	24 26	1 3	3,170 2,714	4 66 4 1 16	3, 104 2, 598		2.1 4.3	97. 9 95. 7		12, 039, 377 5, 232, 985	4 183, 968 4 272, 894	11, 855, 409 4, 960, 091		1.5 5.2	98. 5 94. 8	
innesota	1919 1914	7 5	8 6		3,564 2,089	4 46 4 59	3, 518 2, 029		1.3 2.8	98. 7 97. 2		13, 984, 944 4, 665, 325	4 253, 591 4 119, 455	13, 731, 353 4, 545, 870		1.8 2.6	98. 2 97. 4	
Vew Hampshire	1919 1914	1 3	13 12	2 5	2,979 3,328	170	2, 434 2, 437	² 545 721	5.1	81, 7 73, 2	18.3 21.7	9, 015, 583 4, 282, 739	240,166	7, 712 , 230 3, 296, 657	² 1, 303, 353 7 45 , 910	5.6	85. 5 77. 0	1
New Jersey	1919 1914	29 24	43 29	18 9	4, 853 4, 025	170 444	4,271 3,391	412 190	3.5 11.0	88.0 84.2	8. 5 4. 7	23, 853, 075 7, 849, 556	687, 367 783, 840	19, 940, 979 6, 680, 568	3, 224, 729 385, 150	2.9 10.0	83. 6 85. 1	1
New York	1919 1914	256 198	266 176	160 109	41,372	2,719	33,835 31,610	4,818 5,138	8.8	81.8 78.8	11, 6 12, 8	195, 376, 641 78, 229, 235	17,598,682 6,874,623	150, 332, 752 62, 761, 789	27, 445, 207 8, 592, 823	9.0 8.8		1 1 2
North Carolina	1919 1914	13 10	93 57	15 7	10, 216 7, 787	193 360	9,660 7,241	363 186	1.9 4.6	94.6 93.0	3, 6 2, 4	29, 833, 568 8, 892, 362	588, 249 296, 806	27, 988, 869 8, 407, 655	1, 256, 450 187, 901	2.0 3.3	93. 8 94. 6	8
Ohio	1919 1914	2 5	28 30	4 3	4, 407 3, 411	₁₇₁	4,328 2,927	² 79 313	5. 0	98.2 85.8	1.8 9.2	18, 778, 844 8, 654, 103	401,200	18, 481, 844 7, 303, 354	2 297,000 949,549	4.6	98. 4 84. 4	4 1
Pennsylvania	1919 1914	169 183	279 179	158 136	44, 156 41, 130	5, 540 7, 234	30,996 26,718	7,620 7,178	12. 5 17. 6		17.3 17.5	188, 260, 800 64, 153, 449	22,501,626 10,955,854	135, 402, 862 41, 994, 741	30, 356, 312 11, 202, 854	12.0 17.1	71. 8 65. 8	9 1 5 1
Rhode Island	1919 1914	8	15 16	3 3	li .	11	1,601 1,399	10 193	18.8 21.6	80.7 68.9	0. 5 9. 5	11, 936, 313 4, 191, 841		10, 533, 709 3, 267, 305	33,041 347,517	11.5 13.8	88.5 77.	2 9
South Carolina 1	1919	1	13	3	781	 	2 781			100.0		2,076,036		2 2, 076, 036		 	100.0	٥
rennessee 1	1919		62	1	10,308	∥	4 10, 308	3		100.0		82, 952, 849	 	4 32, 952, 349		 	100.0	1
Utah¹	. 1919	1	. 9	····	198		2 198			100.0		1,156,389	<u> </u>	2 1, 156, 389	1		100.	1
Vermont	1919 1914	j	6	1 2	1, 105 963		41,108	284		100.0 72.0		5, 063, 801 2, 164, 897		4 5, 063, 801 1, 562, 030	2 602, 867		100. 72.	2
Virginia	. 1919 1914		2 8	3 1	1,578 2,272	1 97	1,578 1,300		42, 8	100.0 57.2		4, 684, 504 3, 515, 910	4 1, 852, 639	4,684,504 1,683,277	1	52.7	100. 47.	0 3
Wisconsin	. 1919 1914		51		8, 736 6, 244	49	8, 586 6, 070	102	0.6	98.3 97.2		40,777,704 13,292,30	219, 474 101, 369	39, 913, 053 12, 962, 360	645, 177 228, 576	0. 8	97.	9 5

MANUFACTURES.

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

	NUMBER O	F ENGINES (OR MOTORS.			HORSEPOW	er.	R.				
POWER.	1010	1074	4000		Amount.		Per cent distribut		tion.			
	1919	1914	1909	1919	1914	1909	1919	1909				
Primary power, total	11,806	5,333	2,736	151,601	125,842	103,709	100.0	100.0	100.0			
Owned Steam ¹ Engines	878 589 569	965 737 (2)	1, 085 811 (2) (2)	89,758 76,003 68,569 7,434 814	96, 635 80, 884 (2) (2)	88, 033 74, 760 (2)	59. 2 50. 1 45. 2	76.8 64.3	84. (72. 1			
Engines. Turbines. Internal-combustion engines. Water wheels, turbines, and motors.		(²) 74 154	113 161	7,434 814 12,941	1,108 14,643	1, 235 12, 038	4.9 0.5 8.5	0.9 11.6	1.2 11,6			
Rented Electric Other	10,928 10,928	4,368 4,368	1,651 1,651	61,843 59,680 2,163	29, 207 26, 284 2, 923	15,676 13,286 2,390	40.8 39.4 1.4	23. 2 20. 9 2. 3	15.1 12,8 2,3			
Electric Rented. Generated by establishments reporting	15,509 10,928 4,581	6,888 4,368 2,520	2,839 1,651 1,188	91,137 59,680 31,457	46, 117 26, 284 19, 833	25, 485 13, 286 12, 199	100. 0 65. 5 34. 5	100. 0 57. 0 43. 0	100, (52,) 47, (

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

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

				1			,								
		CO	AL.			Gaso- line				co	AL.			Gaso- line	
STATE.	Cen- sus year.	Anthracite (tons, 2,240 lbs.).	Bitumi- nous (tons, 2,000 lbs.).	Coke (tons, 2,000 lbs.).	Fuel oils (bar- rels).	and other volatile oils (bar- rels).	Gas (1,000 cubic feet).	STATE.	Con- sus year.	Anthracite (tons, 2,240 lbs.).	Bitumi- nous (tons, 2,000 lbs.).	Coke (tons, 2,000 lbs.).	Fuel oils (bar- rels).	and other volatile oils (bar- rels).	Gas (1,000 cubic feet).
United States	1919 1914	102,024 118,071	584,787 484,268	1,654 2,849	4,172 2,476	3,354 (¹)	73,068 40,765	New Jersey	1919 1914	6,355 2,572	4,693 12,784	10	6	(1)	491 1,647
Alabama	1919 1914		7,908 3,738		••••••	8		New York	1919 1914	30,124 41,146	201, 534 164, 981	3 4	400	944 (¹)	29,076 11,401
California 3	1919		74		695		5, 229	North Carolina	1919 1914	156 1,608	45,729 27,570	215 552	68 370	209 (1)	748 572
Connecticut	1919 1914	9 61	15,309 13,087	••••••	102	(¹)	236 2,610	Ohio	1919	2	11.777	9	105		4 828
. Georgia	1919 1914		22, 013 15, 393		14 21	(¹)	250	Pennsylvania	1914 1919	168 59,600	13, 391 60, 344	972	129 104	(1) 1,025 (1)	6,351 24,180 9,207
Illinois	1919 1914	74 52	20, 897 21, 101	85	129	371 (¹)	2,701 1,076	Rhode Island	1914 1919	70, 234	42, 324 2, 896	1,388	449 2, 924		9,207 42 104
Indiana	1919 1914	6 70	13,786 9,095		<u>-</u> 8			South Carolina	1914 1919	2	6, 521 4, 961		29	(1)	104
Louisiana 2	1919	••••••	2,045	30	140			Tennessee	1914 1919		4, 136 47, 400		13	(¹) 566	504
Maryland	1919 1914	142	4,342 4,252		····iiò	(i)	1,580	Utah 2	1914 1919		28,690		139	(1)	264 2
Massachusetts	1919 1914	4,886 1,152	42,503 36,205	74 88 2	8 74	(1)	1,339 5,018	Vermont	1919 1914	2 22	6, 245 5, 158			20 (¹)	
Michigan	1919 1914	10 255	84 19, 406	138	100 5	140 (¹)	151	Virginia	1919 1914		8, 403 11, 231		28	(1)	
Minnesota	1919 1914	49 11	9, 402 5, 308				457	Washington 3 Wisconsin	1919 1919	208	65 35, 441	8	1		2, 282
New Hampshire	1919 1914	336 315	8,655 8,680	79	1			All other states	1914 1919 1914	228 125 35	20,539 7,887 10,678	13 10	10 462	(¹)	1, 853 279

¹ Included in figures for fuel oils.

² Not reported separately.

² Figures not available for 1914.

SPECIAL STATISTICS.

SECTION 1.

MATERIALS.

Summary of materials for the United States.-Table 13 is a comparative summary relating to the quantity and cost of all materials used in the knit-goods industry for 1919, 1914, 1909, and 1904.

Table 13.—Quantity and Cost of Materials Used in the Knit-Goods Industry: 1919, 1914, 1909, and 1904.

	,			·
	1919	1914	1909	1904
Materials, total cost	\$427,095,570	\$146, 687, 458	\$110, 241, 053	\$76, 789, 348
Cotton:				
Domestic— Pounds Cost	92, 446, 380 \$30, 387, 995	86, 202, 432 \$11, 083, 987	71, 986, 529 \$8, 277, 508	48, 668, 643 \$5, 526, 396
Foreign — Pounds Cost	603,938 \$275,281	2, 187, 776 \$360, 919	3, 429, 494 \$526, 001	1, 918, 117 \$342, 921
Carded and other pre- pared— Pounds.	838,753 \$262,772	1, 920, 124 \$235, 832	(1) (1)	(1)
Cost Wnsto purchased— Pounds Cost	24, 832, 027 \$4, 857, 149	\$230, 832 24, 303, 514 \$2, 190, 762	(1)	8
Domestic (in condition purchased)—			, .	
Pounds	3,706,825 \$4,125,884	5, 735, 395 \$2, 436, 524	6,596,081 \$2,666,636	16, 170, 183 \$5, 610, 440
Pounds	811, 243 \$934, 968	1, 212, 203 \$530, 959	472,707 \$252,419	1, 130, 433 \$543, 418
All other animal hair:	4,116,365	6, 072, 257	5, 582, 839 191, 344	13, 909, 144 89, 502
Pounds	705, 839 \$339, 577	690, 714 \$153, 099	\$62,363	\$54,877
Cost	5,367,065 \$2,066,168	3, 453, 682 \$602, 392	7, 482, 553 \$919, 970	7,489,358 \$923,719
chased: Pounds Cost	5, 025, 522 \$3, 852, 720	5, 946, 337 \$1, 827, 122	8, 586, 261 \$2, 813, 129	6,020,459 \$1,711,669
Tops, purchased: Pounds. Cost. Raw silk, purchased: Pounds.	. 146, 812 \$240, 434	265, 216 \$140, 153	121, 565 \$92, 995	182,149 \$116,773
	1, 265, 568 \$9, 340, 769	1,590,162 \$6,331,413	{i}	(1)
Yarns, purchased: Cotton, not mercerized— Pounds————————————————————————————————————	186, 892, 109 \$120, 791, 157		1	161, 500, 466 \$34, 372, 910
Cost Cotton, mercerized— Pounds. Cost Woolen—	30, 519, 234 \$49, 403, 099	15,672,427 \$9,289,859	1	(1)
Pounds Cost	5,383,926 \$8,866,287	7,145,453 \$4,442,765	1	1
Worsted— Pounds Cost	12, 635, 631 \$32, 148, 641	14,305,333 \$11,694,030	10, 370, 004 \$10, 116, 325	8,789,570 \$7,457,690
Merino— Pounds— Cost Silk and spun silk— Pounds	6, 905, 256 \$10, 278, 050	4,333,300 \$2,380,700)	
Pounds CostArtificial silk—	5, 711, 110 \$49, 222, 061	1,913,478 87,510,87	982,753 \$3,606,599	\$1,200,259
Artificial silk— Pounds Cost Linen, jute, and othe	4, 153, 546 \$24, 101, 516	1, 257, 244 \$2, 337, 94	3 (1) (1)	{;}
vegétable fiber— Pounds Cost	288,00 \$182,77	70, 27 4 \$60, 83	8 241, 754 9 \$180, 818	62, 617 \$56, 224
Chemicals and dyestuffs, cos All other materials, cost	t. \$8, 222, 81		1	\$1,677,252 \$13,277,347
Yarns made for consumption within same establishment Cotton, pounds Woolen, pounds Worsted, pounds Merino, pounds	87, 063, 03 5, 861, 14 532, 69	7 75,970,76 7 7,714,76 4 231,75 5 24,180,03	69, 171, 277 1 8, 316, 346 12 223, 40 16 20, 856, 986	39, 954, 890 (1) (1) (1)

1 Not reported separately.

Principal materials used in the industry, by states .-A distribution, by states, of the principal materials used in the industry, according to quantity and cost, is given in Table 14.

Table 14.—Principal Materials used in the Knit-Goods Industry, by States: 1919, 1914, and 1909.

	cost.	QUA	NTITY (POUND:	3).
MATERIAL AND STATE.	1919	1919	1914	1909
Cotton, raw	1\$30,663,276	1 93, 050, 318	1 88,390,208	1 75, 416, 023
Connecticut. Georgia Massachusetts New Hampshire. New York North Carolina Pennsylvania Tennessee. Virginia. All other states	562, 944 2, 462, 301 5, 129, 928 234, 095 11, 318, 970 5, 155, 400 350, 654 3, 064, 243 31, 769 2, 352, 972	1,601,338 7,950,262 16,421,615 605,020 34,604,413 14,169,262 963,824 9,258,751 274,008 7,141,825	1,844,557 8,738,056 14,369,989 1,247,298 39,560,749 10,213,853 2,767,822 3,985,128 1,956,792 3,705,964	1, 971, 512 4, 043, 536 16, 459, 053 1, 314, 260 34, 665, 053 3, 531, 967 2, 506, 120 1, 018, 657 6, 314, 745
Open cotton fiber, dyed, bleached, or otherwise treated, purchased Cotton card laps	113, 147 149, 625	329,665 509,088	} 1,920,124	(2) (3)
Cotton waste	4, 857, 149	24,832,027	24,303,514	(³)
Connecticut. Massachusetts. New Hampshire. New York. Virginia. All other states.	109, 828 293, 638 174, 719 3, 981, 772 94, 700 202, 492	381,895 1,054,916 595,339 20,778,984 471,784 1,549,109	688, 320 (3) 458, 286 19, 624, 939 945, 546 2, 586, 423	(2) (2) (2) (2) (2) (2)
Wool: In condition purchased		4 4, 518, 068	4 6,947,598	47,068,788
Connecticut. Massachusetts. Michigan New Hampshire. New York. Pennsylvania. Wisconsin. All other states.	681,723 599,618 138,525 179,133 1,644,631 1,156,920 223,163 437,139	596, 589 534, 068 135, 256 128, 305 1, 354, 405 1, 113, 994 218, 782 436, 669	1,090,505 313,877 255,880 172,081 2,787,835 582,590 528,758 1,216,072	1, 019, 244 440, 374 166, 136 211, 544 1, 967, 337 467, 87 302, 744 2, 493, 536
Equivalent of above in scoured condition		4,116,365	6,072,257	5,582,83
Connecticut Massachusetts Michigan New Hampshire New York Pennsylvania Wisconsin All other states		524, 661 501, 932 135, 256 128, 305 1, 244, 962 1, 015, 791 183, 773 381, 685	950,743 303,877 248,605 166,768 2,497,961 335,941 528,758 1,039,604	
Recovered wool fiber		5, 367, 065		7,482,55
New Hampshire New YorkAll other states	. 757,089	600,274 2,197,971 2,568,820	608,904 1,742,352 1,102,426	566,21 5,410,60 1,505,78
Wool waste and noils	3,852,720	5,025,522	5,946,337	8,586,26
Connecticut Michigan New York Pennsylvania Wisconsin All other states	590, 280 17, 044 1, 393, 891 307, 797 353, 497 1, 190, 211	826, 903 13, 468 1, 785, 285 481, 148 607, 351 1, 311, 367	811, 613 210, 922 2, 602, 559 636, 390 428, 988 1, 255, 865	t
Tops	. 240,434	=	= = = = = = = = = = = = = = = = = = = =	
Connecticut New YorkAll other states	59,210	17,394 43,876 85,545	156,174	15,8
Raw silk	9,340,769	3		
New Jersey New York Pennsylvania All other states	3,587,861 83,845	704,03 372,09 141,89	1,025,440 1 400,226	(9)

¹ Includes for 1919, 603,938 pounds of foreign cotton, costing \$275,281; for 1914, 2,187,776 pounds; and for 1909, 3,429,494 pounds.

2 Not reported separately.

3 Figures not available; included with "all other states."

4 Includes for 1919, 811,243 pounds of foreign wool, costing \$934,968; for 1914, 1,212,203 pounds; and for 1909, 472,707 pounds.

5 Not reported.

Table 14.—Principal Materials used in the Knit-Goods Industry, by States: 1919, 1914, and 1909—Continued.

	COST.	QUAI	NTITY (POUND	8).
MATERIAL AND STATE.	1919	1919	1914	1909
lotton yarn, not mercerized	\$120,791,157	186,892,109	189, 851, 716	216, 987, 611
Alabama California Connecticut	1,645,869 279,480 414,087	1,266,191 310,154 591,606	(3) (3) 718, 264	576, 998 132, 922 1, 539, 828 936, 766
DelawareGeorgia	1 120 435 //	284, 136 3, 399, 974	(§) (S)	936,766 4,886,428
Illinois Indiana Maryland	1,834,503 5,477,779 1,719,170 825,036	9,211,562 1,659,716 1,351,549	7,680,660 650,346 (3)	4, 886, 428 6, 677, 751 1, 420, 294 2, 000, 505
Massachusetts Michigan	6,008,948 2,321,199 3,971,346	8,299,748 3,774,503	6, 211, 733 3, 128, 674	6,963,775 2,366,690 1,794,137
Minnesota New Hampshire	3,971,346 1,820,943	6,341,270 3,946,773	(8) (8)	1,794,137 3,712,733 2,264,614
New Jersey New York North Carolina	1,820,943 1,618,735 31,351,296 6,402,229	2,209,867 53,325,500 9,781,189	1,801,376 53,515,363 12,218,484 5,775,019 53,457,783 3,389,434	86.676.623
Ohio Pennsylvania	30, 482, 876	43,371,847	5,775,019 53,457,783	9, 527, 471 4, 207, 238 59, 035, 958
Rhode Island South Carolina	\$3,584,184 582,584 9,124,733	4.639.065	(-)	4,609,892 632.035
Tennessee	9,124,733 209,409 876,389	931, 272 13, 611, 690 187, 943	9, 025, 995 (8)	4,746,986 201,231
Virginia Wisconsin	1 2.100.037 1	1,483,390 4,083,901 5,297,497	6.855.602	201,231 1,181,332 5,017,117 4,804,716 1,073,571
All other states	3,245,496 654,984	5,297,497 831,860	5, 935, 029 19, 487, 954	
Cotton yarn, mercerized Connecticut	121,880	30, 512, 234 81, 493	15, 672, 427	(2)
IllinoisIndiana	1,425,664	917,079	313,465 1,542,360 1,113,536 389,553	(2)
Massachusetts Michigan	2,922,230 507,403	1,652,328 354,198 1,834,997	1,113,536 389,553	(2) (2)
New Jersey New York North Carolina	1,841,269	1,121,146	484,290 115,491	(2)
Ohio Pennsylvania	550,720 24,748,301	473,587 14,707,613	380,502 6,249,291	22
Rhode Island Tennessee	240,782 2,483,434	128, 390 2, 037, 578	380,502 6,249,291 82,676 1,074,332 34,979	(2)
Virginia Wisconsin All other states	55,550 4,998,313	1,834,997 1,121,146 953,320 473,587 14,707,613 128,390 2,037,578 23,543 3,178,470 2,051,859	34,979 1,733,789 1,502,101	(2)
Woolen yarn	8,866,287	5,383,926	7, 145, 453	(2) 6,140,265
Illinois	313,988	208, 972	472, 487 123, 022	187, 752
Michigan	409,871 180,627	501,228 92,672	565, 249 47, 338	187, 752 113, 368 449, 928 42, 420
New York	137,290 3,883,859	208, 972 374, 808 501, 228 92, 672 70, 109 2, 042, 342	3, 133, 302	154,248
Ohio Pennsylvania Utah	313, 988 694, 488 409, 871 180, 627 137, 290 3, 883, 869 509, 733 1, 232, 926 47, 611	345,001 646,548 28,207	776,308 611,845 17,387	3, 186, 332 773, 371 618, 809
Vermont Wisconsin		939,869	46,803 838,740	11, 271
All other states	301,778	134, 170	317,400	452, 896 149, 870
Worsted yarn		12,635,631 261,404	14, 305, 333	10, 370, 004
Connecticut	741,700 970,883 792,454	409,700 377,972	378,595 493,861	416,566 287,276
Massachusetts	3,036,087 482,590	1,211,375	1,357,338 391,146	619, 140 306, 325
Minnesota. New Hampshire. New Jersey New York	690,086	71,144 250,176 391,736 4,280,339	111,571 643,762	110, 190 733, 465 338, 566
New York Ohio	11,324,766	11 XIN-4UU	441,467 4,659,388 1,449,655	3, 232, 368 1, 095, 829
Ohio Pennsylvania Rhode Island.	6,748,728 1,592,792	2,681,474 609,028 98,435	2,114,360 665,977	1,684,786 597,037
Utah. Wisconsin. All other states.	772, 454 3, 036, 087 42, 590 185, 247 690, 086 1, 091, 747 11, 324, 766 1, 966, 945 6, 748, 728 1, 592, 792 1, 592, 792 1, 680, 590 596, 665	100,074	170,358 969,424	568, 093
Merino yarn	10,278,050	246, 906 6, 965, 256	327,480 4,333,309	208, 445 4, 014, 609
ConnecticutIllinois	106,478 416,529	72,648 322,381	90,919	46, 17 297, 11
Massachusetts Michigan	1,525,978	322,381 764,842 132,271	469,100 558,104 105,879	466, 747 149, 591
New York	119,390	132, 271 67, 318 1, 999, 086	668,811	35, 139 925, 440
Ohio. Pennsylvania. Rhode Island	1,059,102	1,209,056 921,612 187,761	339,279	843, 181
Wisconsin	489,537 1,943,834	187, 761 856, 622 931, 659	85,966 148,549 715,442	314, 649 238, 93 308, 339
Silk yarn and spun-silk yarn	49,222,061	5, 711, 110	1, 913, 478	982,75
ConnecticutIndiana	1. 027, 047	9,472 141,029	12,999 56,185	7, 139
Massachusetts		189, 907	180,060	121, 712 57, 403 423, 230

Not reported separately.
 Figures not available; included with "all other states."

Table 14.—Principal Materials used in the Knit-Goods Industry, by States: 1919, 1914, and 1909—Continued.

	COST.	AUQ	TITY (POUNDS	1).
MATERIAL AND STATE.	1919	1919	1914	1909
Silk yarn and spun-silk yarn—Continued. Ohio	\$74, 346 22, 576, 841 651, 422 7, 305, 774 3, 575, 104 182, 774 1, 692 181, 082	8, 991 2, 603, 469 84, 998 803, 550 405, 810 288, 009 1, 645 286, 864	20, 796 877, 180 98, 640 264, 453 111, 629 70, 278 22, 743 47, 535	38, 281 250, 467 22, 900 38, 582 20, 036 241, 754 15, 975 225, 779

Additional materials, by states.—In addition to the materials shown in the foregoing table certain other materials used in the industry, and reported separately for the first time in connection with the census of 1919, are shown, by states, in Table 15.

Table 15.—Quantity and Cost of Materials not Reported Separately at Previous Censuses: 1919.

MATERIAL AND STATE.	Quantity (pounds).	Cost.
Silk yarn (organzine and tram)	5,073,854	\$44,238,372
Illinois. Massachusetts. New Jersey. Now York. Pennsylvania. Wisconsin. Allothorstates.	49,102 165,421 353,993 1,060,050 2,271,999 766,507 406,782	414,322 1,411,759 8,263,730 8,654,052 20,137,777 6,971,951 3,384,781
Sewing thread, cotton.	2,529,680	3,829,796
Connecticut. Georgia. Illinois. Massachusetts. Michigan. Minnesota. Now Hampshire. New Jersey. New York. North Carolina. Ohio. Pennsylvania. Tennessee. Vermont. Virginia. Wisconsin. All other states.	35, 163 32, 734 23, 244 158, 948 68, 928 31, 823 34, 572 25, 549 1, 057, 430 1, 057, 430 1, 14, 622 71, 086 36, 299 81, 149 57, 426	84, 966 42, 107 50, 253 257, 322 125, 678 63, 312 51, 945 53, 779 1, 507, 318 199, 463 99, 857 702, 604 153, 623 106, 798 49, 538 134, 934
Sewing thread, silk	65,832	\$563,024
Illinois. Massachusetts. New York. Pennsylvania. All other states.	8,723 3,392 21,322 22,127 10,268	15,624 32,766 274,788 173,361 66,485
Buttons, pearl	Gross. 5,351,529	2,290,295
Connecticut. Illinols: Massachusetts Michigan Minnesota. New Jersey. New York. Ohio. Pennsylvania Rhode Island Tennessee. Vermont Virginia Wisconsin All other states.	99, 227 49, 942 479, 523 120, 022 366, 966 44, 256 2, 265, 556 225, 817 75, 044 326, 347 153, 880 69, 101 91, 579 568, 402	43,008 20,390 212,351 42,333 137,286 31,796 1,013,239 102,116 175,805 25,707 140,888 68,322 22,841 40,229 213,825
Buttons, other than pearl	1,479,107	873, 136
Connecticut Illinois Massachusetts Michigan Minnesota Now Jersey Now York Ohio Pennsylvania Rhode Island Virginia Wisconsin All other states	16, 920 84, 357 2, 369 729, 099 64, 065 378, 565 36, 804	4, 173 126, 189 40, 823 26, 696 21, 877 4, 767 324, 619 77, 114 172, 097 7, 684 11, 907 37, 891

Shirts and drawers:

Silk

All other-

Union suits:

Dozens..... Value.....

Dozens....

Value.....

Dozens..... Value.....

Silk—
Dozens
Value
Silk-mixed—
Dozens
Value
All other—

Dozens..... Value

Dozens.....Value....

Cotton— Dozens..... Value

Wool— Dozens.... Value....

Dozens..... Value

Dozens.....

Value..... Silk-mixed— Dozens......Value

All other—
Dozens......
Value

Bathing suits:
Dozens.
Value.

Dozen pairs.....Value.....Gloves and mittens:

Knitted headwear (except in-

fants):
Dozens.
Value.
Sweaters, sweater coats, jerseys, cardigan jackets, etc.:
Dozens.
Value.
Scarfs and shawls:
Dozens.

Dozons......Value.....

All other fancy knit goods,

Square yards..... Value.... Elder down:

Jersey cloth and stockinette:
 Square yards.
 Valuo.
 Tricolette:
 Square yards.
 Valuo.
 All other knitted cloth:

Square yards.....Value. Yarns for sale:

Pounds.....Value.....

Pounds..... Value

Pounds..... Value.....

Pounds...... Value.....

Old bagging and ties, value.... Contract work, value.....

All other products, value.....

Includes silk-mixed.

Woolen— Pounds.... Value....

Cotton-

Merino-

Cotton waste:

Dozen pairs.....Value

Leggings:

fants):

Cotton— Dozons Value

1904

19, 723, 141 \$56, 643, 860

17, 107, 958 \$39, 658, 762

485,328 \$3,647,934

2, 113, 810 \$13, 031, 754

8 16,045 8 \$305,410

(10) (10)

(⁶)

1,440,420 \$6,793,947

1, 260, 301 \$4, 478, 664

68,067 \$965,132

105,242 \$1,199,949

12 6,810 12 \$150,202

(18) (18)

(5) (5)

(⁵)

122,462 \$619,998

2,260,508 \$5,556,260

589, 315 \$1, 774, 862

811,629 \$8,345,369

435,308 \$1,293,348

\$2,118,842

11,768,961 \$1,249,401

4,843,939 \$1,018,981

3, 354, 026 \$1, 145, 127

(6) (5)

455 274 \$354, 316

3,304,615 \$654,234

232,869 \$230,836

196,037 \$100,745

(5) \$208, 167

\$4,840,633

(6) (6)

TABLE 17.—QUANTITY AND VALUE OF PRODUCTS OF THE KNIT-GOODS INDUSTRY: 1919, 1914, 1909, AND 1904—Continued.

1914

21, 758, 775 \$57, 523, 051

19, 735, 898 \$43, 097, 937

373,015 \$3,448,575

1, 434, 504 \$9, 228, 686

69,786 \$1,214,609

43, 118 \$313, 439

102, 424 \$219, 805

6,272,515 \$35,596,034

5,468,730 \$25,617,815

147, 221 \$2, 490, 815

486, 128 \$5, 706, 102

31,714 \$886,248

29, 895 \$393, 618

274, 454 \$2,033, 889

74,901 \$313,952

2,470,183 \$10,519,613

987, 178 \$3, 456, 326

2,249,142 \$26,195,002

63,264 \$713,545

\$3, 198, 979

6, 221, 601 \$670, 095

1,076,995 \$516,957

10,593,986 \$4,378,544

(5) (5)

1,854,851 \$1,251,653

17,052,510 \$3,990,349

14 117, 634 14 \$64, 499

 $\binom{16}{16}$

183, 147 \$76, 905

12,999,218 \$628,944

\$24,452 \$3,649,274

\$6,014,250

1909

25, 337, 779 \$69, 592, 817

22, 567, 121 \$50,007, 598

178, 163 \$1, 820, 521

2, 536, 473 \$17, 055, 624

\$ 56,022 \$ \$709,074

 $\binom{10}{10}$

(5) (5)

2,473,103 \$14,853,536

2,047,637 \$9,713,597

50, 102 \$683, 289

364,387 \$4,217,432 12 10, 977 12 \$239, 218

(18) (18)

(6) (8)

65, 326 \$192, 242

2,527,889 \$7,296,887

888, 223 \$3, 217, 985

2,221,410 \$22,430,817

218,923 \$916,294

\$2,392,927

9,726,770 \$1,209,464

1,298,322 \$442,431

3,111,272 \$784,255

(6) (6)

410,207 \$269,323

7,457,412 \$1,568,417

15 488, 322 16 \$217, 114

(16) (15)

(6) (8)

(§)

(5) \$1,082,485

\$4,954,708

1919

17, 180, 404 \$98, 286, 403

14, 655, 963 \$72, 564, 633

315,642 \$3,055,521

1,848,863 \$19,621,964

85,852 \$1,404,231

9 274,084 9 \$1,640,054

(11) (11)

\$105, 243, 880

7, 518, 516 \$71, 122, 386

76,701 \$2,003,011

1, 133, 750 \$21, 415, 647

49,388 \$1,313,131

432,677 \$9,389,705

301,393 \$6,644,906

3,571,123 \$19,530,411

557,732 \$3,996,398

2,132,581 \$61,094,341

298, 237 \$4, 054, 859

\$16,321,888

6,581,183 \$2,521,369

941,017 \$1,174,592

30, 344, 402 \$28, 690, 935

26, 889, 695 \$9, 788, 418

17, 493, 355 \$9, 834, 118

451, 804 \$937, 497

22,833 \$61,262

324,638 \$242,767

15, 452, 314 \$1, 490, 933

\$54,823 \$8,771,094

\$8,501,477

4,635 \$62,510

9.211.032

Yarn and sewing thread manufactured for own use.-Table 16 gives the quantity of yarn and sewing thread manufactured, by states, during 1919 for consumption within the same establishment where it was made.

TABLE 16.-YARN AND SEWING THREAD MANUFACTURED IN KNITTING MILLS FOR CONSUMPTION WITHIN SAME ESTABLISH-MENT: 1919.

				THREAD.			
STATE.	Cotton.	Woolen (carded).	Worst- ed (comb- ed),	Merino (cotton- mixed).	All other.	Cotton.	Silk.
United States	Pounds. 87, 063, 037			Pounds. 17, 239, 895			
Connecticut	46,378 16,925,522 7,689,061 125,399	727,028	19,000	4,068,105 1,409,459 805,641		143	
New Hampshire New York North Carolina Pennsylvania	68,980 42,550,565 8,231,650 1,646,720	3,083,198		5, 204, 561	501,739	12,550	
Tennessee	7, 498, 940 2, 279, 822	376,719		506, 304		[

PRODUCTS.

Summary of products for the United States .-- A detailed summary of the products for the industry in the United States is shown comparatively in Table 17 for the census years 1904 to 1919, inclusive.

TABLE 17.—QUANTITY AND VALUE OF PRODUCTS OF THE KNIT-GOODS INDUSTRY: 1919, 1914, 1909, AND 1904.

. 1	1919	1914	1909	1904
Products, total value 1	\$713,139,689	\$ 258,912,903	\$200,143,527	\$137,076,45 1
Hosiery:				
Dozen pairs	84, 645, 757	75, 164, 911	62, 825, 069	44, 186, 063
Value Hose—	\$308, 662, 377	\$98,008,590	\$68,721,825	\$44, 113, 260
Dozon pairs	51, 425, 340	44, 186, 412	2 34, 933, 976	2 26,041,878
Value	\$216,651,368	\$63, 144, 569	2 \$31, 503, 427	2 \$26, 674, 346
Cotton—		100,000		,
Dozen pairs	36, 835, 602	36, 952, 380	32, 499, 104	24, 169, 804
Value	\$105,647,876	\$38,390,194	\$24,078,622	\$22,764,799
Wool-	# 00" Dag	* 000 400	1 100 400	1 000 700
Dozen pairs	* 395, 268	1,369,492	1, 166, 429 \$2, 358, 106	1,083,783 \$2,205,080
Value Mermo—	a\$2,139,900	\$2,548,047	\$2,000,100	02, 200, 000
Dozen pairs	1,029,371	723, 433	834,029	746,226
Value	\$4,456,430	\$1,414,118	\$1,466,283	\$1,182,164
Silk—	42,000,000	,,,		, ,
Dozen pairs	4 2, 589, 358	2, 354, 648	2 434, 414	2 42,065
Value	\$25, 337, 049	\$13,851,251	2 \$3,600,416	2 \$522, 303
Silk-mixed—				/=>
Dozen pairs	10,575,741	2,786,459	(5) (5)	(5) (5)
Value	\$79,070,053	\$6,940,959	(*)	(%)
Half-hose— Dozen pairs	33, 220, 417	30, 978, 499	27, 891, 093	18, 144, 185
Value	\$92,011,009	\$34,954,021	\$27, 218, 398	\$17, 438, 914
Cotton-	402,011,000	401,001,011	1 221, 210, 500	, 521, 2013, 522
Dozen pairs	23,777,740	24, 457, 195	24, 805, 917	15, 223, 243
Value	\$47,849,610	\$21,241,280	\$21,831,365	\$11,821,830
Wool-		1		1 000 000
Dozen pairs	651,782	616, 341	1,061,535	1,309,876
Value	\$3,256,910	\$1,327,439	\$2,087,121	\$3, 402, 406
Merino-	9 104 007	9 995 961	2,023,641	1,611,066
Dozen pairs Value	3,164,007 \$10,541,696	2,335,861 \$3,384,831	\$3,299,912	\$2, 214, 678
Silk—	. 010,011,000	40, 001, DOI	00,200,012	12, 22, 3, 0, 0
Dozen pairs	5 1,926,995	1,305,792	(7)	(7)
Value	\$9,758,019		(7)	(7)
Silk-mixed-	1 1		1	
Dozen pairs	. 3,699,893	, 2,263,310	(5) (5)	(5) (5)
Value	. \$20,604,774	\$4,298,502	(°)	(6)

¹ In addition, knit goods, in 1919 to the value of \$8,374,682, in 1914 to the value of \$5,988,033, and in 1909 to the value of \$2,975,749, were reported by establishments engaged primarily in other industries.

I includes silk half-hose.

Includes silk-mixed.
 Includes all other shirts and drawers to avoid disclosure of individual operations.
 Included in silk-mixed shirts and drawers.
 Included in silk-mixed shirts and drawers.
 Includes silk-mixed union suits.

Includes worsted. Includes 740.804 dozen pairs artificial silk, valued at \$3,737,621.

⁶ Not reported separately.
Includes 846,170 dozen pairs artificial silk, valued at \$2,006,113.
Included in silk hose.

¹³ Included in silk union suits.

¹³ Included in sink timou state.
14 Includes worsted yarn to avoid disclosure of individual operations.
15 Includes woolen, worsted, and merino yarns.
16 Included in woolen yarn to avoid disclosure of individual operations.

Products for the industry, by states.—Table 18 presents statistics with reference to the quantity and value of the chief products of the industry according to location, by states, where they were manufactured.

Table 18.—Comparative Summary of Products of the Knit-Goods Industry, by States: 1919, 1914, and 1909.

	VALUE.		QUANTITY.	
PRODUCT AND STATE.	1919	1919	1914	1909
Hosiery	\$ 308 , 662 , 377	Doz. pairs. 84, 645, 757	Doz. pairs. 75, 164, 911	Doz. pairs. 62,825,069
Alabama Connecticut Delaware Georgia Illinois Maryland Massachusetts Michigan New Hampshire New Jersey New York North Carolina Ohio Ponnsylvania Rhode Island South Carolina Tennessee Virginia Wisconsin All other states	2, 782, 369 1, 214, 648 8, 822, 523 14, 297, 561 1, 876, 176 20, 474, 521 4, 225, 808 6, 494, 816 16, 709, 728 9, 180, 392 19, 553, 767 2, 277, 469 124, 062, 543 3, 470, 253 2, 007, 784	1, 108, 379 376, 585 329, 120 5, 031, 20 5, 281, 624 839, 743 5, 890, 020 5, 821, 682 910, 406 9, 176, 861 905, 630 20, 937, 288 505, 576 1, 012, 533 8, 842, 682 1, 387, 716 5, 283, 269 3, 550, 665	586, 334 544, 475 693, 416 4, 651, 961 4, 238, 360 761, 776 4, 523, 469 761, 776 2, 597, 949 855, 252 272, 668 8, 762, 603 580, 084 993, 871 5, 537, 249 1, 524, 174 3, 631, 394	373, 500 560, 100 661, 104 611, 104 3, 726, 330 3, 550, 613, 866, 476 605, 589 2, 681, 273 850, 932 355, 687 27, 832, 601 554, 194 855, 431 3, 267, 156 7, 15, 807
Cotton. Alabama. Delaware. Georgia. Illinois. Maryland. Massachusetts. New Hampshire. New Jersey. North Carolina. Pennsylvania. South Carolina. Tennesseo. Virginia. Wisconsin. All other states.	153, 497, 486 2, 732, 369 350, 757 9, 704, 848 10, 635, 100 1, 718, 315 5, 025, 585 1, 538, 786 2, 758, 786 19, 256, 273 44, 132, 833	60, 613, 342 1, 108, 379 206, 120 4, 967, 120 4, 967, 326 1, 176, 459 9, 431, 825 17, 722, 549 1, 172,	3, 233, 034 61, 409, 575 586, 334 693, 416 4, 651, 961 3, 686, 091 1, 034, 358 304, 497 1, 034, 358 364, 497 23, 383, 766 983, 874 5, 426, 652 1, 524, 174 2, 567, 771 3, 298, 769	2, 276, 44(57, 305, 02 373, 500, 661, 104 3, 726, 33(3, 089, 634 4, 280, 286 1, 186, 286 1, 186, 286 2, 139, 582 4, 287, 139, 582 855, 431 3, 267, 157 715, 80 2, 042, 955 2, 601, 83
Hose. Alabama. Georgia. Illinois. Maryland. Massachusotts. New Hampshire. New Jersey. North Carolina. Pennsylvania. South Carolina. Tennessee. Virginia. Wisconsin. All other states.	2, 261, 645 6, 086, 447 7, 746, 757 1, 244, 000 3, 309, 816 1, 538, 716 2, 737, 538 12, 956, 499 24, 938, 858 1, 291, 311 16, 800, 919 1, 537, 206 14, 729, 551 8, 468, 615	36, 835, 002 834, 309 2, 896, 809 2, 779, 386 557, 043 1, 213, 330 667, 326 1, 170, 459 5, 550, 547 8, 273, 195 5, 550, 969 6, 672, 904 1, 072, 718 2, 488, 452 2, 108, 157	36, 952, 380 408, 809 2, 515, 163 2, 046, 650 339, 646 962, 116 302, 918 5, 917, 709 11, 719, 660 377, 123 4, 464, 822 1, 127, 595 1, 176, 617 2, 405, 768	32, 499, 10 288, 355 1, 226, 231 1, 188, 361 271, 467 3, 506, 544 1, 164, 656, 233 3, 876, 393 13, 876, 893 150, 40 2, 420, 817 495, 803 1, 143, 364 2, 221, 257
Half-hose Georgia Illinois Maryland Massachusetts North Carolina Pennsylvania South Carolina Tennessee Virginia Wisconsin All other states	690, 861 2, 977, 786	23,777,740 2,070,233 1,705,094 226,638 777,345 3,533,078 9,449,354 481,564 1,970,865 315,000 1,216,112 2,032,457	24, 457, 105 2, 136, 798 1, 639, 441 330, 308 693, 995 2, 829, 273 11, 664, 106 606, 748 961, 230 396, 579 1, 390, 954 1, 807, 763	24, 805, 91' 2, 500, 003' 1, 880, 96' 544, 45: 773, 726' 1, 926, 74' 13, 262, 68(696, 02' 840, 330' 220, 00- 899, 58(1, 255, 28'
Wool. New Hampshire. Pennsylvanta. Wisconsin. All other states.	1 339,063 1 546,331 1 3,954,875	1 1,047,050 1 152,309 1 63,926 1 120,243 1 710,572	1, 985, 833 495, 565 413, 660 275, 406 801, 202	2, 227, 96 991, 103 428, 91 128, 89 679, 04
Merino	14,998,126 4,243,051 10,755,075	4, 193, 378 1, 253, 977 2, 939, 401	3, 059, 294 1, 053, 502 2, 005, 792	2,857,676 503,256 2,354,41
Silk. Massachuseits. New Jersey. New York. Pennsylvania. Wisconsin. All other states.	28, 451, 334 1, 846, 853 1, 785, 515 1, 800, 337	2, 929, 379 152, 898 96, 380 104, 301 1, 212, 464 530, 391 826, 945	3,660,440 108,106 368,193 195,392 1,090,922 557,086 440,741	2 434, 414 (8) (8) (8) (8) (8) 2 145, 49 2 77, 600 2 211, 31

Table 18.—Comparative Summary of Products of the Knit-Goods Industry, by States: 1919, 1914, and 1909—Continued.

and by an inch	VALUE.	(QUANTITY.	
PRODUCT AND STATE,	1919	1919	1914	1909
Hosiery—Continued. Silk-mixed. Massachusetts. New Jersey. New York. Pennsylvania. Wisconsin. All other states.	\$99, 674, 215 9, 007, 470 11, 968, 972 6 019, 973 63, 831, 934 2, 289, 023 6, 556, 843	Doz. pairs. 14, 275, 459 2, 496, 236 1, 488, 466 451, 682 8, 468, 165 370, 952 099, 958	Doz. pairs. 5, 049, 769 405, 295 119, 372 11, 610 4, 060, 978 144, 297 302, 217	Doz. pairs.
Artificial silkPennsylvania All other states	5 6, 644, 346 2, 691, 441 5 3, 952, 905	1, 587, 149 749, 433 837, 716	(6) (6) (6)	(6) (6) (6)
Shirts and drawers	98, 286, 403	Dozens. 17, 180, 404	Dozens. 21,758,775	Dozens. 25,337,779
Connecticut. Georgia. Massachusetts. Michigan. New Hampshire. New Jersey. New York. North Carolina. Ohio. Pennsylvania. Rhode Island. Vermont. Virginia. All other states.	4,674,795 283,037 10,115,392 1,570,563 1,263,767 1,086,351 47,416,624 3,550,166 3,231,135 15,844,886 1,050,350 871,424 2,036,780 8,282,124	339, 968 38, 291 1, 343, 023 719, 470 213, 761 146, 734 6, 924, 699 417, 219 38, 727 5, 171, 882 165, 638 107, 684 347, 391 1, 205, 917	505, 219 185, 600 1, 354, 538 833, 589 135, 359 181, 999 9, 203, 882 686, 510 70, 176 6, 524, 131 145, 275 145, 453 838, 056 949, 470	471, 70: 314, 89: 1, 667, 48: 720, 20: 260, 70: 178, 15: 12, 474, 92: 409, 63: 126, 30: 6, 721, 56: 199, 99: 155, 04: 725, 50: 908, 65:
Cotton. Connecticut. Georgia Massachusetts. Michigan. New Jersey. New York North Carolina. Pennsylvania. Rhode Island Viginia. All other states.	72, 564, 633 373, 115 283, 035 1, 413, 178 814, 505 37, 411, 522 3, 550, 166 14, 587, 505 504, 070 2, 036, 780 5, 969, 950	14, 655, 963 44, 962 38, 291 920, 553 695, 514 109, 720 6, 041, 257 417, 219 5, 035, 935 77, 356 347, 391 921, 729	19, 735, 898 131, 988 185, 600 1, 142, 782 816, 960 150, 998 8, 466, 807 686, 519 6, 340, 164 133, 809 838, 958 842, 305	22, 567, 12 113, 60 314, 89 1, 415, 22 692, 26 133, 99 11, 238, 71 409, 63 6, 552, 36 110, 44 725, 50 860, 47
Wool Connecticut Massachusetts New York All other states.	1 8, 055, 521 1 342, 361 (7) 1 1, 257, 718 1 1, 455, 442	1 315,642 1 21,278 (7) 1 154,993 1 139,371	373, 045 53, 360 32, 695 161, 794 125, 196	178, 16 17, 38 35, 38 61, 42 64, 00
Merino Connecticut Massachusetts. New York Pennsylvania. All other states.	19,621,964 3,883,483 8 3,452,849 7,717,556 986,875 3,581,201	1,848,863 268,043 8 294,855 630,355 110,068 545,542	1, 434, 504 315, 804 145, 781 484, 268 163, 755 324, 896	2,536,47 338,58 182,90 1,162,14 161,88 690,95
Silk New York All other states		85,852 29,690 56,162	69,786 53,603 16,183	² 56, 02 12, 68 43, 38
Silk-mixed Massachusetts All other states	9 1,640,054 726,638 913,416	* 274,084 92,141 181,943	43,118 25,280 17,838	(4)
All other			102, 424	
Union suits		9,211,032	6,272,515	2,473,10
Michigan New York Ohio Pennsylvania Wisconsin All other states	3,228,941 36,267,304 5,862,351 14,712,349	525, 187 263, 431 3, 127, 856 223, 757 2, 250, 825 166, 335 2, 653, 641	408, 445 132, 304 2, 638, 635 291, 491 1, 415, 583 132, 744 1, 253, 313	183, 1' 77, 00 990, 8 191, 9 436, 2' 43, 9 549, 9
Cotton. Massachusetts. Michigan. New York. Ohlo. Pennsylvania. All other states.	71,122,886 3,300,830 908,396 29,205,961 658,636 13,074,126	7,518,516 262,626 88,946 2,731,093 54,745 2,172,792 2,208,314	5,468,730 238,256 103,588 2,528,302 219,704 1,388,936 989,944	2,047,65 100,05 50,00 938,5 131,15 412,5 415,2
Wool New York Utah All other states	1 2,003,011 1 15,264 1 135,753 1 1,851,994	1 76, 701 1 1, 272 1 4, 116 1 71, 313	147, 221 28, 333 3, 915 114, 973	50, 1 3, 1 46, 9
Merino. Massachusetts. New York Ohio. Pennsylvania. Rhode Island. All other states.	. 21,415,647 . 1,487,359	1,183,750 73,018 301,352 98,530 33,721 40,597 586,532	486, 128 82, 990 51, 470 62, 986 18, 057 23, 472 247, 153	364,3

(See footnotes at end of table, on next page.)

TABLE 18.—COMPARATIVE SUMMARY OF PRODUCTS OF THE KNIT-GOODS INDUSTRY, BY STATES: 1919, 1914, and 1909—Continued.

	VALUE.		QUANTITY.	
PRODUCT AND STATE.	1919	1919	1914	1909
Union suits—Continued, Silk	\$1,313,131	Dozens. 49,388	Dozens. 31,714	Dozens. 2 10,977
Silk-mixed Massachusetts All other states	9,389,705 4,192,733 5,196,972	432,677 189,543 243,134	29,895 18,651 11,244	(4)
All other	l l		108,827	(6)
Leggings New YorkAll other states	62, 510 62, 031 479	4,635 4,603 32	74,901 65,029 9,872	65, 326 52, 107 13, 219
Gloves and mittens. Michigan. New York. Ohio. Pennsylvania. Wisconsin. All other states.	157, 017 14, 061, 935 336, 345 2, 669, 452	3,571,123 24,652 2,562,380 142,876 380,319 323,442 137,454	2, 470, 183 120, 449 1, 340, 479 253, 137 310, 939 251, 820 193, 359	2,527,889 245,797 1,195,140 319,522 284,931 368,157 114,342
Bathing suits California Massachusetts Now York Ohio Pennsylvania All other states	1,247,027 907,620 2,184,669 210,000 1,248,143	301, 393 34, 757 42, 079 96, 267 5, 400 77, 608 45, 282	274, 454 15, 512 6, 328 123, 553 3, 285 117, 044 8, 732	(6) (6) (6) (6) (6) (6)
Knitted headwear (except infants'). New York Ohio. Wisconsin All other states.	917, 624 1, 872, 642 932, 505	557, 732 91, 936 310, 924 113, 783 32, 089	987, 178 177, 235 537, 175 181, 236 91, 532	888, 223 124, 301 272, 478 322, 688 168, 756
Sweaters, sweater coats, jerseys, cardigan jackets, etc. Illinois Massachusotts. New Jersey. New York. Ohio Pennsylvania. Wisconsin. All other states.	01,094,341 1,729,040 2,992,021 2,051,686 32,980,487 4,974,242 9,559,785	2, 132, 581 32, 350 108, 729 34, 234 1, 248, 952 165, 414 288, 064 103, 746 151, 092	2, 249, 142 25, 556 94, 857 68, 098 1, 464, 606 150, 295 304, 550 85, 439 55, 741	2, 221, 410 22, 286 40, 544 70, 772 1, 656, 336 115, 457 221, 700 54, 292 40, 023
Scarfs and shawls New York Ohto All other states	2, 027, 855	298, 237 187, 017 32, 130 79, 090	63, 264 8, 837 41, 443 12, 984	9,800 122,080

Table 18.—Comparative Summary of Products of the Knit-Goods Industry, by States: 1919, 1914, and 1909—Continued.

to the second se	VALUE.		QUANTITY.	
PRODUCT AND STATE.	1919	1919	1914	1909
All other fancy knit goods New York Ohio. Pennsylvania. All other states	053 435		*************	
Fleece lining (shoe and glove) Rhode Island	2, 521, 369 557, 755 1, 963, 614	Sq. yards. 6,581,183 1,160,744 5,420,439	Sq. yards. 6,221,601 5,331,268 890,333	Sq. yards. 9,726,770 6,686,112 3,040,658
Eider down	1, 174, 592	941, 017	1,076,995	1,298,322
Jersey cloth and stockinette New York Pennsylvania All other states	7, 893, 118	30, 344, 402 11, 484, 919 3, 955, 284 14, 904, 199	10, 593, 986 8, 507, 954 1, 223, 689 862, 343	3,111,272 2,053,563 177,766 879,943
Tricolette New York Pennsylvania All other states	14,531,058 109,619	5,051,639 4,369,064 38,000 644,575	(6) (6) (6) (6)	(6) (6) (6) (6)
Other knitted cloth	9,788,418	26, 889, 695	1,854,851	410, 207
Yarns for sale: Cotton	1,947,573 3,404,985	17, 493, 355 3, 462, 853 6, 338, 475 7, 692, 027	Pounds. 17,052,510 3,340,124 8,235,253 5,477,133	276,604 2,499,483

1 Includes worsted.
2 Includes silk-mixed goods.
3 Included in "All other states" to avoid disclosure of individual operations.
4 Included with silk.
5 Includes "All other half-hose" to avoid disclosure of individual operations.
5 Not reported separately.
7 Included in merino to avoid disclosure of individual operations.
8 Includes woolen to avoid disclosure of individual operations.
9 Includes some linen to avoid disclosure of individual operations.

Principal products, by geographic divisions.-A distribution of the quantity and value of the principal products for the industry are shown, by geographic divisions, in the United States in Table 19.

TABLE 19.—PRINCIPAL PRODUCTS OF THE KNIT-GOODS INDUSTRY, BY GEOGRAPHIC DIVISIONS: 1919, 1914, 1909, AND 1904.

			AND 1		PRODUC	`s.			
]- -		1	· · · · · · · · · · · · · · · · · · ·	Principal pr	oducts.		-	
DIVISION AND YEAR.	Number of estab- lish-					Quantity.			Value of
	ments.	Total value.	Value.	Hosiery (dozen pairs).	Shirts and drawers (dozens).	Union suits (dozens).	Sweaters, cardigau jackets, etc. (dozens).	Gloves and mittens (dozen pairs).	all other products.
United States; 1910 1914 1909 1904	2,051 1,622 1,374 1,144	\$713,139,689 258,912,903 200,143,527 137,076,454	\$592, 817, 412 227, 982, 290 182, 895, 882 121, 452, 696	84,645,757 75,164,911 62,825,069 44,186,063	17, 180, 404 21, 758, 775 25, 337, 779 19, 723, 141	9,211,032 6,272,515 2,473,103 1,440,420	2,132,581 2,249,142 2,221,410 811,629	3,571,123 2,470,183 2,527,889 2,260,508	\$120,322,277 30,980,613 17,247,645 15,623,758
few England: 1919- 1914- 1900- 1904- (iddle Atlantic:	127	87,778,875 33,425,513 30,990,884 24,807,970	70,013,725 29,997,133 27,884,676 20,068,978	9,009,563 8,356,560 8,400,837 6,222,109	2,170,074 2,287,144 2,758,239 2,336,507	1,003,528 720,076 447,005 170,992	174,448 111,774 46,051 17,446	67, 594 38, 164 56, 542 81, 159	17,765,150 3,428,330 3,106,200 4,739,00
1919. 1914. 1909. 1904. Sast North Central:	861 676	407,490,518 150,232,240 120,598,043 79,681,629	327, 890, 924 129, 994, 040 111, 280, 584 72, 669, 422	32,820,346 30,983,811 29,039,220 21,662,943	12,243,315 15,910,012 19,374,641 14,575,705	5,387,507 4,120,264 1,436,323 987,682	1,571,250 1,837,254 1,948,808 707,619	2,972,912 1,673,332 1,480,071 903,376	79, 599, 593 20, 238, 200 9, 317, 459 7, 012, 207
1919. 1914. 1909. 1904. West North Central:	203 197 183 159	101, 858, 213 38, 295, 010 26, 633, 881 18, 485, 357	89, 453, 023 33, 631, 736 22, 641, 245 15, 073, 180	12,779,873 10,223,443 7,782,722 5,331,986	1,076,153 1,147,089 1,091,844 821,134	789,062 854,933 329,004 115,684	307,802 268,232 201,925 70,035	526, 364 758, 656 991, 076 1, 275, 973	12, 405, 19 4, 663, 27 3, 992, 63 3, 362, 17
1919 1914 1909 1909 1904 Jouth Atlantic:	18	15, 132, 958 5, 097, 860 2, 607, 647 1, 202, 586 56, 796, 893	14, 523, 123 4, 924, 509 2, 418, 496 1, 080, 253	322, 925 313, 625 302, 880 128, 219	286, 918 209, 428 106, 735 150, 954	675,738 424,110 100,068	7,731 5,915 14,037 7,814	2,643	609, 83, 173, 35, 189, 15, 122, 33,
1914 1909 1904 Cast and West South Central: 1919	129 119 100	21, 235, 420 13, 770, 901 9, 243, 665 39, 496, 067	51, 559, 075 19, 579, 953 13, 423, 965 9, 028, 126 36, 504, 674	18,736,665 18,209,105 13,070,504 7,739,948	868, 886 1, 806, 345 1, 585, 542 1, 558, 064 500, 483	497,406 196,035 134,858 155,159 798,977	ļ.	1,547 10	5, 237, 81 1, 655, 46 346, 93 215, 53 2, 991, 39
1914 1909 1904 Gorntain and Pacific;	36 33 24	8, 989, 952 4, 581, 498 2, 088, 069	8,551,051 4,405,383 2,084,949	10,970,424 7,072,247 4,213,253 2,204,093	391, 632 406, 439 273, 471	141,999 4,000 3,750	1,865		438, 90 176, 11 3, 12
1919. 1914. 1909. 1904. Production in states which can not be distributed by geographic divisions without	40 38	4,586,167 1,636,908 960,673 683,391	2,872,868 1,253,868 841,533 556,224	5,961 6,120 6,653 7,285	34, 575 7, 145 14, 339 6, 679	58,814 15,098 21,847 7,047	71,350 18,272 10,499 7,876	63 21	1,713,29 383,04 119,14 127,18
disclosing individual operations: 1904.	25	933,778	891,564	889,480	627	106	189		42, 21
Per cent of total		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
1919 1914 1909 1909 1904 Hiddle Atlantic:	10.0	12.3 12.9 15.5 18.1	11.8 13.2 15.2 16.5	10.6 11.1 13.4 14.1	12.6 10.5 10.9 11.8	10.9 11.5 18.1 11.9	8. 2 5. 0 2. 1 2. 1	1.9 1.5 2.2 3.6	14. 11. 18. 30.
1910. 1914. 1900. 1904. sast North Central; 1919.	62.7 59.1	57.1 58.0 60.3 58.1	55. 3 57. 0 60. 8 59. 8	38. 8 41. 2 46. 2 40. 0	71. 2 73. 1 76. 5 73. 0	58. 5 65. 7 58. 1 68. 6	73. 7 81. 7 87. 7 87. 2	83. 3 67. 7 58. 5 40. 0	66, 65, 54, 44,
1914 1909. 1904. Vest North Central: 1919.	13.9	14.3 14.8 13.3 13.4	15. 1 14. 8 12. 4 12. 4	15.1 13.6 12.4 12.1	6.3 5.3 4.3 4.2	8.6 10.4 13.3 8.0	14. 4 11. 9 9. 1 8. 7	14.7 30.7 39.2 56.4	10 15 23 21
1914 1909 1904 outh Atlantic; 1919	1.1 1.3 0.9 8.9	2.0 1.3 0.9 8.0	2.4 2.2 1.3 0.9 8.7	0.4 0.5 0.3	1.7 1.0 0.4 0.8 5.1	7.3 6.8 4.0	0.4 0.3 0.6 1.0	(1)	0 9 1 0
1914 1900. 1904 ast and West South Central: 1919.	8.0 8.7 8.7 3.9	8. 2 6. 9 6. 7 5. 5	8.6 7.3 7.4 6.2 3.7	22. 1 24. 2 20. 8 17. 5	8,3 6,3 7,9 2,9	3.1 5.5 10,8 8.7	(1)	(3)	5 2 1 2
1914 1909 1904 fountain and Pacific: 1919	2.4	3.5 2.3 1.5 0.7	3.7 2.4 1.7	9. 4 6. 7 5. 0	1,8 1,6 1,4	2.3 0.2 0.3	(1)	(1)	(1)
1914. 1909. 1904. 'roduction in states which can not be dis- tributed by geographic divisions without	2.3	0. 6 0. 5 0. 5	0.5 0.8 0.5 0.5	(1) (2) (3) (4)	(¹) 0.1	0.6 0.2 0.9 0.5	3.3 0.8 0.5 1.0	(1)	1 0 0
disclosing individual operations:	2, 2	0.7	0.7	2.0	(1)	(1)	(1)		0

¹ Less than one-tenth of 1 per cent.

TABLE 25.-KNITTING MACHINE EQUIPMENT IN THE KNIT-GOODS INDUSTRY, BY STATES: 1919 AND 1914-Con.

'				KNITTING	MAUHINES	EMPLOYEL	IN THE IND	USILI.			
	Cen-					Po	wer.				Hand (Lamb
CLASS AND STATE.	sus year.	Total.	Fla	it.	Full-fashio	ned flat.	Circu		Circular hosiery, automatic.	All other.	and other varie- ties).
			Ribbed.	Plain.	Ribbed.	Plain.	Ribbed.	Plain.	automatic.		
SPRING NEEDLE—continued.									•		
Illinois	1919 1914	320 52	8	9	33 7	175 7	3	84 9	····ii		11 15
Indiana	1919 1914	584 468	i	34 58	10 29	398 263	142 111	6			· · · · · · · · · · · · · · · · · · ·
Massachusetts	1919 1914	1,842 1,957	103 125	89 1,137	16 39	120 170	252 158	1,009 291	101 1	144 18	8 20
Michigan	1919 1914	133 316	1 91	10			42 36	84 114	54	4	11
New Hampshire	1919 1914	324 128			2 2	11	105 15	5	212	100	
New Jersey	1919 1914	546 623	9 14	9 26	26 14	406 423	17 55	21	23	35 29	2: 39
New York	1919 1914	7,607 5,154	359 305	1, 230 836	42 44	258 246	1,600 682	2,830 2,459	199 176	773 303	310 103
North Carolina	1919 1914	531 286	10 66				165	26 156	330 12	16	
Ohio	1919	408	3	38		10	175 115	142 10	40		
Pennsylvania	1914	8,674	162 233	26 200	148	1,583 1,181	1.	1,326 818	2, 453 1, 344	213 136	3 2
Rhode Island	1914	4,407 633	3	167 180	104	92	25	311		20 62	
Tennessee	1914	780	15		3	98	100	452 80	50 63	62	
Vermont	. 1919 1914	70 198	16 35	8			. 26 133	20 30			
Virginia	1	148 203		54			9	94 194			
Wisconsin	1919	840	20	. 6	1 3	199	53	31	1 53		2
All other states	1914	385 322	94	28		. 38	67	80 85	138		1
LATCH NEEDLE.	1914	86	10	9			. 22	37	6	1	
United States	. 1919 1914	148, 146 125, 864	8, 823 3, 529	5, 390 5, 237	995 1,239	4,765 1,561	35, 715 35, 326	11,772 11,599	73, 670 58, 121	1 4, 400 5, 417	2, 6, 3, 8
Alabama	1919	1,187		0,307			700	50			
California	1919	415 354	44 36	25 91	1 14	24	98	164 57	2		
Connecticut	1919	895	73	9	30	1 2	.)		1	1	
Delaware	1914 1919 1914	1,016	48		130		222				
Georgia	1919	1, 010 3, 191 4, 699	255 258 8	i			184	541			
Illinois	1914	H	11	65	192	2, 29	1,095 6 789	435	1,300	1	
Indiana	1914	7, 941 5, 996 1, 489	11 .	837	216	508	8 840	1			
Iowa	1914	1,489 1,048	1)	i			147	18	614 438		•
	1914	585 383	 				∷ iid		267		
Maine	1919	182	48	3	3		3 25		39		
Maryland	1919 1914	1,050 1,239	li				1	13	2 714	100	1
Massachusetts	1919 1914	8, 913 8, 252	u	35	32 3 187	7 4	4 1,718 3 1,301	1	7 5,313	1	-
Michigan	1919 1914	2, 523 2, 556	98	110	0 <u>2</u> 11	· · · · · · · ·	1,03 1 868	3 7	3 1,077 6 86	1 133 1 93	
Minnesota	1919 1914	787 638	42	7 2	2 3		5 533 8 363	3 3	6 12	0	-

¹ Includes 520 warp and 318 traverse-loom knitting machines.

Table 20.—Products of the Knit-Goods Industry, for Men's, Women's, and Children's Wear: 1919—Con.

PRODUCT. Total. Men. Women Scarfs and shawls: Dozans. 298, 237 166, 227 86, 1 Value. \$1, 054, 859 \$1, 037, 907 \$2, 899, 1	. Children.
Scarfs and shawls:	
Dozans	
\$751-1-1 M. OPA OPO M. OCT COM	09 45, 109
Value \$4,054,859 \$1,037,907 \$2,899,1	09 45, 109 95 \$117, 757
Cotton, not mercerized—	
Dozens	00
Value	00
	11 40
Dozens 2, 574 123 2, 4 Value \$78, 394 \$2, 400 \$75, 4	9 \$585
Worsted-	1
Dozens. 72, 221 600 26, 7 Value. \$1, 025, 480 \$29, 700 \$906, 0	60 44, 861 57 \$89, 723
Value	57 \$89,723
Merino-	
Dozens	23 1,000 99 \$27,440
Value \$912,114 \$1,866 \$882,7	\$21,441
	54
Value \$455,674 \$400,695 \$54,9	79
Silk-mixed	1
Dozens	78
Value	43
Dozens	}
Value\$250,000 \$250,000	
Other	
Dozens. 2, 188 2, 1 Value. \$105, 808 \$105, 8	88
Value \$105, 808 \$105, 8	08
Knitted headwear (except infants'):	1
Dozens 557, 732 71, 983 352, 6	7.4 193 07/
Value \$3,996,398 \$582,843 \$2,190,5	74 133,078 05 \$1,223,050
Cotton, not mercerized—	1 -
Dozens 29, 169 29, 1 Value \$104, 152 \$104, 1	69
Value	52
Dozens	10 011
Dozens. 18,611 Value. \$223,330	18,611 \$223,330
Woolen	
Dozens 66,099 26,753 9 Value \$499,871 \$203,626 \$11,0	25 39, 021 60 \$2 85 , 1 85
Value \$499, 871 \$203, 626 \$11, 0	60 \$2 85 , 1 85
Worsted— Dozens	10 10 00
Dozens	46 10, 261 06 \$141, 958
Merino—	91.11, Buc
	16 41, 300
Dozens 326, 072 21, 050 263, 7 Value \$2, 125, 173 \$172, 468 \$1,580, 0	54 \$372, 651
Slik—	1
Dozens. 500 Value. \$9,000	500 89,000
Silk-mixed—	59,000
	18 21 269
Dozens	18 21, 263 33 \$176, 826
Other—	1
Dozens	00 2,110 00 \$14,100
Neckties: \$21,100 \$7,0	00 \$14,100
	nn I
Value	ŏŏ I
Cotton, not mercerized—	
Dozens 35, 773 35, 773	
Value	
Cotton, mercerized	
	•••
Value \$6.700 \$6.700	

TABLE 20.—PRODUCTS OF THE KNIT-GOODS INDUSTRY, FOR MEN'S, WOMEN'S, AND CHILDREN'S WEAR: 1919—Con.

PRODUCT.	Total.	Men.	Women.	Children.
Neckties—Continued. Worsted—				
DozensValue	76,714 \$496,465	76, 714 \$496, 465		
Dozens Value	120, 508 \$1, 938, 314	120, 508 \$1, 938, 314		
Silk-mixed— Dozens Value	293, 183 \$2, 273, 78±	290, 183 \$2, 273, 481	3,000 \$30,000	
Artificial silk— Dozens Value	20,028 \$213,242	20, 028 \$213, 242		
All other fancy knit goods, value	\$11, 283, 451	\$2, 353, 425	\$4,223,316	\$4,706,710

EQUIPMENT.

Cards and spindles used in the industry, for the United States.—A comparison by census years of the number of cards and spindles used in the industry is given in Table 21.

Table 21.—Cards and Spindles Used in the Knit-Goods Industry: 1919, 1914, 1909, and 1904.

		NUM	BER.		PER	CENT	OF TO	PAL.
CLASS.	1919	1914	1909	1904	1919	1914	1909	1904
Sets of cards	3,347 1 909 2,438	3,074 863 2,211	2,671 844 1,827	1,977 977 1,000	100. 0 27. 2 72. 8	100.0 28.1 71.9	100, 0 31, 6 68, 4	100.0 49.4 50.6
Spindles Producing Woolen and shod-	885,681 859,202	866,494 848,729	736, 774 729, 935	603,180 596,362	100.0 97.0		100.0 99.1	100.6 98.9
dy	234,353 4,458 620,391	254,157 2,585 591,987	244, 458 2, 360, 483, 117	286,661 9,664 300,037	26. 5 0. 5 70. 0	29.3 0.3 68.3	33. 2 0. 3 65. 6	47. 5 1. 6 49. 7
ing	26,479	17,765	6,839	6,818	3.0	2.1	0.8	1.1

Includes 4 worsted cards.

Cards and spindles used in the industry, by states.—A distribution, by states, is shown in Table 22 for the number of cards and spindles used in the industry during 1919 and 1914.

TABLE 22.—CARDS AND SPINDLES USED IN THE KNIT-GOODS INDUSTRY, BY STATES: 1919 AND 1914.

		SE	ts of Cari)S.				SPINDLES.			
•								Producing.			
STATE.	Census year.	Total.	Woolen and	Cotton.	Aggregate.			Mule.			Doubling
			shoddy.	5000011,	115g10g4100	Total.	Total.	Woolen, worsted, and shoddy.	Cotton.	Frame.	and twisting.
United States	1919 1914	3, 347 3, 074	909 863	2, 438 2, 211	885, 681 866, 494	859, 202 848, 729	359, 628 443, 402	222, 860 256, 374	136, 768 187, 028	499, 574 405, 327	26, 479 17, 765
Alabama	1919 1 914	21 21		21 21	18, 408 6, 144	18, 408 6, 144				18, 408 6, 144	
Connecticut	1919 1914	132 125	116 86	16 39	35, 274 37, 356	34, 230 37, 152	29, 724 37, 012	25, 564 22, 112	4, 160 14, 900	4, 506 140	1,044 204
Georgia	1919 1914	218 181		218 181	40, 387 23, 852	38, 022 23, 756	2, 400 2, 500		2,400 2,500	35,622 21,256	2, 365 96
Illinois	1919 1914	18 9	14 8	4	7, 984 5, 904	6, 860 5, 136	6,860 5,136	6, 860 5, 136		**********	1, 124 768
Massachusetts	1919 1914	547 545	48 28	499 517	176, 266 162, 600	176, 266 158, 952	78, 338 74, 428	14, 538 8, 456	63, 800 65, 972	97, 928 84, 524	3, 648
Michigan	1919 1914	68 70	18 22	48 48	22, 980 19, 503	21, 020 17, 987	3,020 4,304	2,500 4,304	520	18,000 13,683	1,960 1,516
New Hampshire	1919 1914	73 85	71 71	. 2 14	19, 618 26, 898	19, 458 26, 874	18,631 24,050	18, 631 22, 898	1,152	827 2,824	160 24
New York	1919 1914	1, 416 1, 285	493 479	923 806	357, 571 373, 245	350, 471 367, 171	168, 263 193, 267	114, 631 140, 691	53, 632 52, 576	182,208 173,904	7, 100 6, 074
North Carolina	1919 1914	363 300	4	359 300	97, 288 62, 065	90, 316 62, 056	12, 256 43, 440		12, 256 48, 440	78,060 18,616	6, 972 9
Ohio	1919 1914	14 15	14 · 15		4, 722 5, 138	4,722 5,138	4, 722 5, 138	4, 722 5, 138		••••••	
Pennsylvania	1919 1914	69 74	52 34	17 40	20, 945 26, 240	20, 593 22, 476	12, 570 14, 282	12,570 10,050	4, 232	8, 023 8, 194	352 3,764
South Carolina	1919 1914	20 16		20 16	5, 616 5, 616	5, 616 5, 616				5, 816 5, 616	
Tennessee	1919 1914	252 186		252 186	38, 764 31, 686	38, 544 31, 644				38, 544 31, 644	220 42
Vermont	1919 1914	22 19	22 19		5, 424 5, 364	5, 424 5, 864	5, 424 5, 364	5, 424 5, 364		**********	
Virginia	1919 1914	12 19	12 19		4,410 7,050	4, 410 7, 050	4, 410 7, 050	4,410 7,050		•••••••	
Wisconsin	1919 1914	28 27	28 25	2	8, 384 9, 161	6, 510 7, 777	6,270 7,777	6,270 7,777		240	1, 874 1, 384
All other states	1919 1914	76 97	17 57	59 40	21, 640 58, 672	18, 332 58, 4 36	6,740 19,654	6, 740 17, 398	2, 256	11,592 38,782	3, 308 236

Distribution of establishments and spindles, by states.—Table 23 gives the relation between the number of establishments and spindles in the industry, by states, for 1919 and 1914.

TABLE 23.—DISTRIBUTION OF ESTABLISHMENTS AND SPINDLES, BY STATES: 1919 AND 1914.

		E	STABLISH	MENTS	IN THE IN	DUSTR	у.				
				With producing spindles.							
STATE,	Cen- sus year.	Total num- ber.	With- out pro- ducing spin-	T	otal.	spin	ng 4,000 dles or ver.				
			dles.	Num- ber.	Number of spindles.	Num- ber.	Number of spindles.				
United States	1919 1914	2,050 1,622	1,870 1,478	180 144	859, 202 848, 729	50 49	700,280 690,313				
Alabama	1919 1914	10 5	8 4	2	18,408 6,144	2	18,408 6,144				
Connecticut	1919 1914	21 25	11 15	10 10	34,230 37,152	2 4	8,360 18,392				
Georgia	1919 1914	28 22	23 16	5 6	38,022 23,756	5 4	38,022 21,216				
Illinois	1919 1914	58 46	57 45	1	6,860 5,136	1	6, 860 5, 136				
Louisiana	1919 1914	3	2 2	1	7,944 4,502	1	7, 944 4, 502				
Massachusetts	1919 1914	77 77	66 69	11 8	176,266 158,952	4 3	163, 940 147, 896				
Michigan	1919 1914	31 34	25 26	6 8	21,020 17,987	1 1	18,000 13,680				
New Jersey	1919 1914	90 62	90 59	3	7,303	_i .	7,254				
New York	1919 1914	682 483	586 425	96 58	350, 471 367, 171	20 22	280, 354 307, 610				
North Carolina	1919 1914	121 74	116 70	5 4	90,316 62,056	4 3	86,644 59,248				
Pennsylvania	1919 1914	606 498	595 493	11 5	20, 593 22, 476	2 2	14,500 18,664				
South Carolina	1919 1914	14 6	13 5	1 1	5,616 5,616	1	5,616 5,616				
Tennessee	1919 1914	63 26	59 22	4	38, 544 31, 644	4 3	38,544 30,396				
All other states	1919 1914	246 261	219 227	27 34	50, 912 98, 834	3 2	13,088 44,559				

Knitting machines used in the industry, for the United States.—The number and kind of knitting

machines used in the industry since 1904 are shown in Table 24.

Table 24.—Knitting Machines Used in the Knit-Goods Industry: 1919, 1914, 1909, and 1904.

Full-fashioned flat		1914	1909	1904
Flat.	363	142,240	115,019	88, 374
Flat.	310	138,167	110,630	81,876
Full-fashioned flat 9. Circular 57. Circular hosiery, automatic 79. All other 5. Hand (Lamb and other varieties) 3. Spring needle 24, Power 23, Flat 3, Ribbed 1 Plain 2, Full-fashioned flat 3. Ribbed 3. Ribbed 3. Plain 3. Circular 9. Ribbed 3. Plain 6. Circular 1. Circular 1. Ribbed 48. Plain 5. Ribbed 48. Plain 1. Circular 1. Ribbed 1.	436	12,243	10,423	6,964
Circular	420	5,852	3.388	3,542
Circular hosiery, automatic. 79, All other	481	54,050	48, 142	39, 409
Spring needle	385	59,894	44,676	31,961
Spring needle	597	6,128	4,001	(I)
Power. 23, Ribbed 1, Plain 2, Ribbed 1, Plain 2, Ribbed 1, Plain 2, Ribbed 1, Plain 2, Ribbed 3, Ribbed 3, Ribbed 3, Ribbed 3, Plain 6, Circular 6, Circular 6, Circular 6, Ribbed 8, Plain 6, Ribbed 48, Plain 6, Ribbed 48, Power 145, Ribbed 8, Plain 5, Ribbed 7,	044	4,073	4,389	² è, 498
Flat	217	16,376	17,680	13, 899
Ribbed	789	16,138	17,308	13,564
Plain 22 Full-fashioned flat 3 Ribbed 9 Plain 3 Circular 9 Ribbed 3 Plain 6 Circular hosiery, automatic 5 All other 8 Hand (Lamb and other varieties) Latch needle 48 Power 145 Flat 14 Ribbed 8 Plain 5 Full-fashioned flat 5 Ribbed 35 Plain 4 Circular 47 Ribbed 35 Plain 11 Circular 47 Ribbed 35 Plain 11 Circular 47 Ribbed 35 Plain 11 Circular 44 Hand (Lamb and other varieties) 2 Per cent of total 1 Power Flat Full-fashioned flat 1 Fower Flat Full-fashioned flat 1 Full-fashioned flat 1 Full-fashioned flat 1 Full-fashioned flat 1 Power Flat Full-fashioned flat 1 Full-fashioned	223	3,477	2,351	2,211
Full-fishioned flat. 3 Ribbed	194	1,105	964	1,455
Ribbed 9 145	029	2,372 3,052	1,387	750
Plain.	660	3,052	2,177	1,455 260
Circular	280 380	2,801	1,968	1,195
Ribbed 3 3 1 1 1 1 1 1 1 1	994	7,125	7,905	8, 250
Plain	487	2,015	8,256 2,188	1,087
All other Hand (Lamb and other varieties) Latch needle	507	5,110	6,088	1,087 7,163
All other Hand (Lamb and other varieties) Latch needle	715	1,773	6,068 3,815	1,048
Hand (Lamb and other varieties)	197	711	709	(i)
Power	428	238	372	835
Flat.	146	125,864	97,339	74, 475
Flat.	.530	122,029	93,322	68, 312
Ribbed. 88 Plain. 5 Full-fashioned flat. 5 Full-fashioned flat. 5 Ribbed. 9 Plain. 4 Circular. 47 Ribbed. 35 Plain. 11 Circular hosiery, automatic. 73 All other All other All other All other Plain. 14 Power. Flat. Full-fashioned flat. Full	213	8,766	8,072	68,312 4,753
Plain. 5	823	3,529	2,516	2.343
Ribbed 4 Plain 4	390	3,529 5,237	5.556	2,410
Ribbed 4 Plain 4	760	2,800 1,239	1,211	2,087
Circular	995	1,239	902	770
Hibbed	785	1,581	309	1,317
Circular hoslery, automatic.	487	46,925	39,886	31, 159
Circular hoslery, automatic.	,715	35,326	30,080	24, 452
Per cent of total 1 Power. Flat. Full-fashioned flat. 1	,772	11,599	9,800	6,707 80,313
Per cent of total 1 Power. Flat. Full-fashioned flat. 1	970	58,121 5,417	40,861 3,292	60,316 (4)
Per cent of total 1 Power. Flat. Full-fashioned flat. 1	,400 ,616	3,835	3,292 4,017	6,163
Flat. Full-fashioned flat.	00.0	100.0	100.0	100.0
Flat. Full-fashioned flat.	98. 2	97.1	96, 2	92. (
Full-fashioned flat	10. 1	8,6	9.1	7. 9
Circular	5. 5	4.1	2.9	4.0
	33. 3	38.0	41.9	44.6
Circular hosiery, automatic	46. 1	42.1	38.8	36.2
All other	3.2 1.8	4.3 2.9	3, 5 3, 8	7.
	14.0	11.5	15.4	15. 7
	86.0	88.5	84.6	84.8

Knitting machines used in the industry, by states.— Table 25 relates to the number of different kinds of knitting machines employed in the industry according to location, by states, in 1919 and 1914.

Not reported.
 Not including mechines used by manufacturers employing hand machines exclusively, which were not reported in 1904.
 Includes 244 traverse-loom and 620 warp knitting machines.
 Includes 318 traverse-loom and 520 warp knitting machines.

TABLE 25.—KNITTING MACHINE EQUIPMENT IN THE KNIT-GOODS INDUSTRY, BY STATES: 1919 AND 1914.

	ļ		· ·	KNITTIN	G MACHINE	S EMPLOYE	O IN THE INI	OUSTRY,			
CLASS AND STATE.	Cen- sus					P	ower.				Hand (Lami
	year.	Total,	Fla	ıt.	Full-fashi	oned flat.	Circi	ılar.	Circular hosiery	All other.	and other varie-
			Ribbed.	Plain,	Ribbed.	Plain.	Ribbed.	Plain.	automatic.	An omer.	ties).
ALL CLASSES											
United States	1919 1914	172,365 142,240	10,019 4,634	7,419 7,609	1,275 1,490	8,145 4,362	39,202 37,341	18,279 16,709	79, 385 59, 894	1 5,597 6,128	3,0 4,0
labama	1919 1914	1,257 635					730 217	90 32	437 338	48	
alifornia	1919 1914	490 360	47 36	46 93	1 14	24 22	100 46	208 60	2 13	18 10	
onnecticut	1919 1914	1, 478 2, 139	120 148	85 1 05	30 136	140 382	377 284	361 608	307 363	8 90	
Delaware	1919 1914	222 1,010	255				222 184	••••••	491	80	
eorgia	1919 1914	5, 834 4, 699	708 8	135 238			599 1,095	541 52	3,851 3,292	14	
llinois	1919 1914	8, 261 6, 048	1,082 48	74 837	225 223	2,471 515	789 843	519 111	1,300 944	1,721 2,088	
ndiana	1919 1914	2,073 1,516	2 3	34 59	10 29	398 263	700 511	58 24	859 614		
owa	1919 1914	585 383					147 116		438 267		
Maine	1919 1914	11 140	45	3		1 8	25	. 1	1 45	12	,
Maryland	1919 1914	1,066 1,255	7			58	297 241	169 132	600 714	100	
Massachusetts	1919 1914	10,755 10,209	877 447	127 1,180	48 226	164 183	1,970 1,459	1,321 978	6,207 5,314	434 130	١.
Michigan	1919 191 4	2,656 2,872	45 189	10 120	211	······································	1,076 904	127 190	1,071 915	137 93	
Minnesota	1919 1914	808 051	47 66	22 27	1 9	5	544 372	36 7	127 62	80	i
New Hampshire	1919 1914	3,531 3,600	8 5	45	2 2	76	841 1, 156	26 18	2,609 2,163	100	
New Jersey	1919 1914	4,623 3,496	127 241	305 149	58 14	420 473	403 1,025	214 143	2,868 1,023	36 244	
New York	1919 1914	23,746 17,252	3,709 1,216	3,518 2,190	596 174	1,962 411	6,262 6,973	4,728 3,775	573 298	1,058 765	1, 1,
North Carolina	1919 1914	14,234 10,959	489 287	329 111	100	346	2,268 1,791	2,159 1,269	8,150 6,903	453 498	,
Ohio	1919 1914	2,943 2,780	212 53	134 190	2 50	10 4	1,587 1,296	350 182	407 412	147 284	
Pennsylvania	1919 1914	57,508 51,422	1,736 1,020	1,559 1,729	239 211	1,789 1,750	12, 458 12, 532	0, 219 0, 158	32, 634 26, 491	604 1, 233	
Rhode Island	1919 1914	1,742 1,864	19 42	190	2 4	92 107	438 570	377 503	598 525	26 98	
South Carolina	1919	1,985 1,015	262 3	154		107	235 246	50 140	1, 284 626		
Tennessee	1914	12,986	417	316			4,060 2,875	493 865	6,975 2,896	725 113	
Vermont	1914	6,749 566	16 85	8	14	42	283 250	20 30	183 156	,	
Virginia	1914	2,043 1,678		54			585 440	94 194	1,150 1,038	160	
Wisconsin	1914	8,367	490	207	34	275 102	1,828 1,511	108	4, 882 2, 451	70 59	
All other states	1914	6,820 2,595 2,217	108	535 67	13 25	6 4	403 379	1,214 10 26	1,872 1,540	3	
SPRING NEEDLE.	1914		36	36				<u> </u>			-
United States	1919 1914	24, 217 16, 376	1,194 1,105	2,029 2,872	280 251	3,380 2,801	3, 487 2, 015	6,507 5,110	5,715 1,773	2 1,197 711	
Connecticut	1919 1914	853 1,123	100	76 75	6	138 364	165 68	859 454	2,118	. 48	

TABLE 25.-KNITTING MACHINE EQUIPMENT IN THE KNIT-GOODS INDUSTRY, BY STATES: 1919 AND 1914-Con.

'				KNITTING	MAUHINES	EMPLOYEL	IN THE IND	USILI.			
	Cen-					Po	wer.				Hand (Lamb
CLASS AND STATE.	sus year.	Total.	Fla	it.	Full-fashio	ned flat.	Circu		Circular hosiery, automatic.	All other.	and other varie- ties).
			Ribbed.	Plain.	Ribbed.	Plain.	Ribbed.	Plain.	automatic.		
SPRING NEEDLE—continued.									•		
Illinois	1919 1914	320 52	8	9	33 7	175 7	3	84 9	····ii		11 15
Indiana	1919 1914	584 468	i	34 58	10 29	398 263	142 111	6			· · · · · · · · · · · · · · · · · · ·
Massachusetts	1919 1914	1,842 1,957	103 125	89 1,137	16 39	120 170	252 158	1,009 291	101 1	144 18	8 20
Michigan	1919 1914	133 316	1 91	10			42 36	84 114	54	4	11
New Hampshire	1919 1914	324 128			2 2	11	105 15	5	212	100	
New Jersey	1919 1914	546 623	9 14	9 26	26 14	406 423	17 55	21	23	35 29	2: 39
New York	1919 1914	7,607 5,154	359 305	1, 230 836	42 44	258 246	1,600 682	2,830 2,459	199 176	773 303	310 103
North Carolina	1919 1914	531 286	10 66				165	26 156	330 12	16	
Ohio	1919	408	3	38		10	175 115	142 10	40		
Pennsylvania	1914	8,674	162 233	26 200	148	1,583 1,181	1.	1,326 818	2, 453 1, 344	213 136	3 2
Rhode Island	1914	4,407 633	3	167 180	104	92	25	311		20 62	
Tennessee	1914	780	15		3	98	100	452 80	50 63	62	
Vermont	. 1919 1914	70 198	16 35	8			. 26 133	20 30			
Virginia	1	148 203		54			9	94 194			
Wisconsin	1919	840	20	. 6	1 3	199	53	31	1 53		2
All other states	1914	385 322	94	28		. 38	67	80 85	138		1
LATCH NEEDLE.	1914	86	10	9			. 22	37	6	1	
United States	. 1919 1914	148, 146 125, 864	8, 823 3, 529	5, 390 5, 237	995 1,239	4,765 1,561	35, 715 35, 326	11,772 11,599	73, 670 58, 121	1 4, 400 5, 417	2, 6, 3, 8
Alabama	1919	1,187		0,307			700	50			
California	1919	415 354	44 36	25 91	1 14	24	98	164 57	2		
Connecticut	1919	895	73	9	30	1 2	.)		1	1	
Delaware	1914 1919 1914	1,016	48		130		222				
Georgia	1919	1, 010 3, 191 4, 699	255 258 8	i			184	541			
Illinois	1914	H	11	65	192	2, 29	1,095 6 789	435	1,300	1	
Indiana	1914	7, 941 5, 996 1, 489	11 .	837	216	508	8 840	1			
Iowa	1914	1,489 1,048	1)	i			147	18	614 438		•
	1914	585 383	 				∷ iid		267		
Maine	1919	182	48	3	3		3 25		39		
Maryland	1919 1914	1,050 1,239	li				1	13	2 714	100	1
Massachusetts	1919 1914	8, 913 8, 252	u	35	32 3 187	7 4	4 1,718 3 1,301	1	7 5,313	1	-
Michigan	1919 1914	2, 523 2, 556	98	110	0 <u>2</u> 11	· · · · · · · ·	1,03 1 868	3 7	3 1,077 6 86	1 133 1 93	
Minnesota	1919 1914	787 638	42	7 2	2 3		5 533 8 363	3 3	6 12	0	-

¹ Includes 520 warp and 318 traverse-loom knitting machines.

TABLE 25.-KNITTING MACHINE EQUIPMENT IN THE KNIT-GOODS INDUSTRY, BY STATES: 1919 AND 1914-Con.

				KNIT	TING MACH	INES EMPLO	YED IN THE	INDUSTRY.			
a. 199 1979 991 991	Cen-					Po	wer.				Hand (Lamb
CLASS AND STATE.	sus year.	Total.	Fla	t.	Full-fashi	oned flat. Circu		lar.	Circular	4 11 a4k aa	and other varie
			Ribbed.	Plain.	Ribbed.	Plain.	Ribbed.	Plain.	hosiery, automatic.	All other.	ties).
LATOH NEEDLE—continued.											
New Hampshire	1919 1914	3, 207 3, 472	8	45		65	736 1, 141	21 18	2,397 2,163		80
New Jersey	1919 1914	4,077 2,873	118 227	296 123	32	14 50	386 970	193 143	2,868 1,000	1 215	169 145
New York	1919 1914	16,139 12,098	3,350 911	2,288 1,354	554 130	1,704 1 65	4,662 6,291	1,898 1,316	374 122	285 462	1,024 1,347
North Carolina	1919 1914	13,703 10,673	479 221	329 111	100	346	2, 103 1, 755	2,133 1,113	7,820 6,891	453 482	40
Ohio	1919 1914	2,535 2,570	209 . 37	98 164	2 50	4	1,412 1,181	208 172	367 369	147 264	94 329
Pennsylvania	1919 1914	50,834 47,015	1,574 787	1,359 1,562	91 107	206 569	11, 901 12, 132	4,893 5,340	30, 181 25, 147	391 1,097	238 274
Rhodo Island	1919 1914	1,109 1,084	16 27	10 7	i	9	413 470	66 51	598 475	6 36	8
South Carolina	1919 1914	1,855 1,015	262 3	154			235 246	50 140	1,154 628		**********
Tennessee	1919 1914	12,747 6,749	417	316			3,964 2,875	413 865	6,912 2,896	725 113	
Vermont	1919 1914	496 278			14	42	257 117		183 156		
Virginia	1019 1914	1,895 1,475					585 431		1,150 1,038	160 6	
Wisconsin	. 1919 1914	8,027 6,435	470 350	201 507	33 59	76 64	1,775 1,439	77 1,134	4,881 2,398	1	444 425
All other states	. 1919 1914	2,586 2,206	104 34	67 29		6 4	396 379	10 24	1,872 1,540	3	118 168

Sewing machines, active and idle, by states.—The ing loopers, is shown for the industry, by states, in number of active and idle sewing machines, includ- Table 26.

TABLE 26.—SEWING MACHINES, INCLUDING LOOPERS: 1919 AND 1914.

		1919	1	1914 1			1919		1914 1
STATE.	Total.	Active.	Idle.	Total.	STATE.	Total.	Active.	Idle.	Total.
United States Alabama California Connecticut Dolaware Georgia Illinois Indiana Louislana Maryland Massachusetts Michigan Minnosota Mississippi Now Hampshire	1,767 1,677 37	72, 448 398 400 1, 110 85 931 1, 871 670 86 137 204 4, 828 1, 571 1, 673 837 835	1 20 183 155 122 12 6 165 196 4	77 36 325 4,338 1,633 1,021	New Jersey New York North Carolina. Ohio Oregon. Pennsylvania Rhode Island South Carolina Tennessee Utah. Vermont Virginia. Washington West Virginia. Wisconsin All other states	335 3,003 262 561 709 69 200 2,494	1, 810 23, 595 3, 046 2, 016 18 18, 831 747 2, 954 656 69 200 2, 442 48	2, 76 2, 158 195 80 1, 211 18 28 49 9 37 23	1, 272 25, 280 2, 077 2, 021 15, 417 900 193 1, 347 174 493 854 89 175 1, 537 88

¹ Active and idle machinery not reported separately.

SECTION 2.

The purpose of this section will be found by reference to the foregoing pages under "General character of the industry."

Summary of materials.—Statistics are presented in

Table 27 with respect to the quantity and cost of the different kinds of materials used in the industry by establishments whose chief product according to value in 1919 was hosiery, underwear, fancy knit goods, knitted cloth, or contract work.

TABLE 27.—QUANTITY AND COST OF PRINCIPAL MATERIALS USED IN KNIT-GOODS ESTABLISHMENTS, CLASSIFIED ACCORDING TO VALUE OF PRIMARY PRODUCT: 1919.

				EST	ABLISHMENT	es engagei	PRIMARILY	IN THE M.	ANUFACTUR	e of—		
KIND OF MATERIAL.	то1	AL.	Hosi	ery.	Under	wear.	Fancy kr	nit goods.	Knitte	l cloth.	Con	tract
	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quan- tity.	Cost.
Total		\$ 36 7, 456,358		\$161,668,310		\$109,664,872		\$58, 084, 269		\$37,998,737		\$40,170
Cotton (raw). Domestic. Foreign. Open cotton fiber, dyed, bleached, or otherwise treated, purchased.	Pounds. 93,050,318 92,446,380	80, 663, 276 30, 387, 995 275, 281	Dogum do	6, 611, 734 6, 540, 883 70, 851	Pounds. 64,743,417 64,415,740 327,677	21,900,107 21,721,205 178,902	Pounds. 2,144,309 2,140,575 3,734	761, 384 758, 804 2, 580	Pounds. 4, 892, 887 4, 849, 613 43, 274	1,390,051 1,367,103 22,948	Lbs.	
otherwise treated, purchased	329,665 24,832,027	113, 147 4, 857, 149	52,018 2,005,409	13, 259 364, 489	261,591 9,841,361	95, 531 2, 150, 070	6,056 5,531,957	1.357	10,000 7,453,300	3,000 1,311,740		
otherwise treated, purchased. Cotton waste, purchased. Cotton card laps, roping, sliver, and roving, purchased. Wool (raw). Domestic. Foreign. Equivalent scoured. All other animal fiber and hair (except slik).	509,088 4,518,008 3,706,825 811,243 4,116,365	149, 625 5, 060, 852 4, 125, 884 934, 968	152, 178 707, 980 487, 837 220, 143 652, 996	694, 024 431, 408 262, 616	1,905,972 1,445,367 460,605	i 559, 956	748, 281 631, 288 116, 993	757, 212 652, 935 104, 277	31,122 1,155,835 1,142,333 13,502 1,048,664	10,270 1,207,575 1,199,456 8,119		
silk) Tops, purchased. Wool waste and noils, purchased. Recovered wool fiber (shoddy, mungo, and wool extract) Silk	705, 839 146, 812 5, 025, 522	339, 577 240, 434 3, 852, 710	6, 918 24, 759 1, 008, 928	41, 692	122,053	198,742		1	l			
and wool extract) Silk Yarn, purchased:	5,367,065 1,265,568	2,066,168 9,340,769	920, 685 612, 254			605,611 293,285	1,742,041 552,524	594, 140 3, 898, 922	840,368 64,368	698, 913		
Yarn, purchased: Cotton, not mercerized. Cotton, mercerized. Woolen (axeept merino). Worsted (except merino). Merino. Silk (organzine and tram). Spun silk. Artificial silk. Linen, jute, or other yarns of vegetable fiber.	186, 892, 109 30, 519, 234 5, 383, 926 12, 635, 631 6, 905, 256 5, 073, 854 637, 256 4, 153, 546	120, 791, 157 49, 403, 090 8, 866, 287 32, 148, 641 10, 278, 050 44, 238, 372 4, 983, 689 24, 101, 514	65, 714, 697 26, 824, 806 880, 040 1, 457, 302 1, 892, 401 3, 650, 393 507, 996 2, 110, 404	32,318,257 4.018,576	96, 871, 423 2, 429, 342 139, 346 935, 394 3, 313, 049 132, 856 69, 258 228, 687	2,528,778 5,106,155 1,130,710 446,677	8,071,775 1,745,555 0 642,052 35,030	5, 530, 297 312, 231	232, 682 700, 736 2, 171, 010 14, 251 648, 553 24, 366	1,090,792 5,710,925 27,799 5,259,108 206,205	150 150	450 450
				286	", -	'	260, 446	121, 844	7,651		3	
Sewing thread, cotton	2,529,680 65,832	3, 829, 796 563, 024	103, 957 12, 672	191, 299 114, 494	2,073,395 26,496	2,973,390 152,205	274,729 19,453	541, 126 237, 098	61,720 7,126	98, 088 59, 027	15, 879 88	25, 893 200
Buttons, pearl. Buttons, other than pearl. Chemicals and dyestuffs.	Gross. 5,351,529 1,479,107	2, 290, 295 873, 136 8, 222, 817	Gross. 12,300 4,760	6,600 2,218 5,872,839	Gross. 4, 912, 797 781, 604	261, 162	Gross. 289,589 645,498	595 461	Gross. 129,827 44,588	45, 743 11, 349 409, 258	Gross. 7,016 2,655	6,381 7, 2,940

Summary of products.—An itemized summary of quantity and value of products for the industry is given in Table 28, for the year 1919. This table illustrates how strictly the majority of establishments

engaged in the manufacture of knit goods confine their production to a single commodity, like hosiery, underwear, fancy knit goods, knitted cloth, or contract work.

Table 28.—DISTRIBUTION OF PRODUCTS OF KNIT-GOODS ESTABLISHMENTS, CLASSIFIED ACCORDING TO VALUE OF PRIMARY PRODUCT: 1919.

		ESTABLISE T	MENTS ENG HE MANUE	AGED PRIM	ARILY IN			ESTABLISH TE	MENTS ENG	AGED PRIMA	ARILY IN
	Total.	Hosiery.	Under- wear.	Fancy knit goods.	Knitted cloth.		Total.	Hosiery.	Under- wear.	Fancy knit goods.	Knitted cloth.
Products, total	¹ \$713,139,689	\$309, 926, 979	\$215,147,294	\$121,780,440	\$59,676,049	Union suits—Con. Silk—					•
Hosiery: Dozen pairs Value	84, 645, 757	83, 006, 122	1,330,764	270,947	37,924	Dozens. Value. Silk mixed— Dozens. Value Bathing suits:	49,388 \$1,313,131				2,490 3 82,843
Hose— Dozen pairs Value				145,669 \$3,751,882		Value Bathing suits:	432,677 \$9,389,705	1	327,951 \$6,782,178		
Value Cotton— Dozen pairs Value	\$216,651,368 36,835,602 \$105,647,876	1		\$3,751,882	19	Bathing suits: Dozens. Value. Leggings: Dozen pairs. Value Gloves and mittens: Dozen pairs. Value	301, 393 \$6, 644, 906	500 \$44, 991	20,822 \$230,701	205,959 \$5,699,623	•
Value Wool— Dozen pairs Value			372	3, 869	\$26 4,905 \$10,087	Value Gloves and mittens:	4,635 \$62,510		\$122	1	
Value Merino— Dozen pairs Value	\$2,139,960 1,029,371	1 028 394	\$4,140			Knitted headwear (ex-	3,571,123 \$19,530,411	97,040 \$409,153	42, 524 \$348, 551	3,264,483 \$17,692,383	\$1,080,324
					• • • • • • • • • • • • • • • • • • • •	Cept infants'):	557, 732 \$3, 996, 398	18,727 \$233,889	52, 561 \$398, 185	486,444 \$3,364,324	·····
Dozen pairs Value Silk-mixed Dozen pairs Value	\$25,837,049 10,575,741 \$79,070,053	\$24, 582, 317 9, 463, 409 \$72, 108, 554			\$754,732	Value. Cardigan jackets, sweatersandjerseys; Dozens.	2, 132, 581 \$61, 094, 341	2,408	E0 400	1,888,449 \$57,830,911	
Value Half-hose— Dozen pairs Value	33,220,417 \$92,011,009	l I	347, 413			Scarfs and shawls:	298 227	11.488		\$57,830,911 142,347 \$3,454,124	
Value Cotton— Dozen pairs Value		li .	344, 238			Value All other fancy knit goods, value. Fleece lining (shoe and	\$4,054,859 \$16,321,888	\$336,244 \$495,259	\$14,491 \$1,209,353		
Value Wool— Dozen pairs Value		11				giove); Square wards	6,581,183 \$2,521,369				5,990,385 \$2,271,718
Value Merino— Dozen pairs Value	\$3,256,910	1				Value Eider down:	l i				
Silk— Dozen pairs	1 928 995	11	2,616			Value		ł			
Value	\$9,758,019	11		i		Square yards Value Tricolette:	30, 344, 402 \$28, 690, 935	1	1,098,618 \$1,192,000	1	Ĭ
Value	3,699,893 \$20,604,774 17,180,404	II.			1 1	Square yards Value All other knitted cloth:	\$17, 172, 431	**********		911,688 \$3,042,248	
Value Cotton— Dozens Value					292, 921 \$2, 343, 877 225, 264 \$1, 195, 305	Value			3,482,426 \$1,704,206	447,207 \$704,793	22,960,002 \$7,379,419
Wool—	1	II	1		ł l	Cotton— Pounds Value Woolen— Pounds. Value Walue Worled— Worked—	17,493,355 \$9,834,118	7,941,718 \$4,664,325	9,513,750 \$5,132,046		37, 881 \$37, 747
DozensValueMerino—		17, 92	293,390 \$2,786,442 1,787,928	i .		Woolen— Pounds Value	451,804 \$937,497	1		1	1
DozensValueSilk—		1	1,787,928 \$18,903,135 35,287	1	50,430	Pounds	22,833 \$61,262	lì .		ľ	22,833 \$61,262
Silk— Dozens Value Silk-mixed— Dozens. Value	\$1,404,231			1	\$889,490	Merino— Pounds Value Cotton waste:	324,638 \$242,767				
Omion souss:	1	ii .	260,717 \$1,503,074	1	1	Pounds	15,451,924 \$1,490,933	[l	10,020,280 \$1,051,143		i
DozensValueCotton—	1	11	8,837,069 \$99,395,904 7,258,980	1 '	122 010	Value Old bagging and ties, value Contract work, value	\$54,823 \$8,771,094	ll .	\$28,607	\$9.730	\$1,254
Dozens	1	3	1		\$1,106,028	All other products,	\$8,501,477		\$4,983,237		\$1,007,117
DozensValue Werino—		1)			,			,,,
Dozens Value	\$21,415,64	7	1,126,688 \$21,213,63	2,70 \$119,61	4,361 8 \$82,398						

Includes \$6,608,927 received for contract work, of which \$410 was classified under "Cotton waste," and \$21,458 under "All other products," not shown separately in the table.

Number of establishments and value of products, by states.—Table 29 gives the distribution of the number of establishments and value of products, by states, in 1919, for the industry by groups of primary product.

The accompanying diagram illustrates by definite proportion the value of products shown in the table.

Production of yarn and sewing thread, for own consumption.—The production of yarn and sewing thread for own consumption is given in Table 30 for the industry, according to the several specialized branches.

Cards and spindles used in the industry.—The number of cards and spindles used in the industry is shown for the different branches in Table 31 for 1919.

TABLE 29.—DISTRIBUTION OF VALUE OF PRODUCTS AND NUMBER OF ESTABLISHMENTS REPORTED BY THE KNIT-GOODS INDUSTRY ARRANGED IN THE ORDER OF IMPORTANCE ACCORDING TO VALUE OF PRODUCTS, BY STATES, AND BY PRIMARY PRODUCT FOR THE UNITED STATES: 1919.

					ESTABLIS	HMENTS ENGA	GED PRI	MARILY IN TH	E MANUE	ACTURE OF-		
	KNIT G	OODS, TOTAL.	Е	losiery.	Un	derwear.	Fancy	knit goods.	Knit	ted cloth.	Conti	act work.
STATE.	Num- ber of estab- lish- ments.	Value of all products.	Num- ber of estab- lish- ments.	Value of all products.	Num- ber of estab- lish- ments.	Value of all products.	Num- ber of estab- lish- ments.	Value of all products.	Num- ber of estab- lish- ments.	Value of all products.	Num- ber of estab- lish- ments.	Value of all products.
United States	2,050	\$713, 139, 689	698	\$309, 926, 979	341	\$215, 147, 294	693	\$121,780,440	· 112	\$59,676,049	206	\$6,608,927
New York Pennsylvania Massachusetts Wisconsin Tennessee	682 606 77 72 63	195, 376, 641 183, 260, 800 52, 424, 235 40, 777, 704 32, 952, 349	21 320 18 19 42	4,442,308 126,382,238 17,967,818 30,096,689 22,402,608	99 134 19 6 8	83,955,192 33,400,259 24,940,940 3,392,633 8,427,716	354 113 28 44	69,669,534 17,109,498 5,240,275 7,168,719	73 16 10	34,076,512 10,403,231 14,275,202	135 23 2 3 12	3, 233, 095 875, 574 (²) 119, 663 42, 122, 025
North Carolina	121 90 58 34 16	29, 833, 568 23, 853, 075 20, 460, 360 18, 778, 844 13, 984, 944	113 23 18 8 4	21, 681, 638 16, 853, 091 14, 423, 894 2, 364, 307 445, 704	5 4 8 2	7,835,100 1,270,746 3,045,576 6,397,385 713,539,240	1 43 34 17 10	6 316,830 3,784,636 1 2,990,890 4 10,017,152 (8)	1 1 1	1 1,044,602 (°)	1 18 2	(6) (2) (6)
Georgia. Michigan Rhode Island. Indiana.	-28 31 26 8	12, 566, 787 12, 039, 377 11, 936, 313 9, 801, 928	24 8 15 5	11, 829, 425 4, 812, 661 3, 470, 253 9, 801, 928	3 7 4 2	7 737, 362 4, 130, 105 2, 170, 009	1 11 2	(8) 1,152,148 1 237,663	3 4	1 1,944,463 6,058,388	2 1 1	(2) (6) (10)
Connecticut New Hampshire Vermont	21 16 7 94	9, 332, 776 9, 015, 583 5, 063, 201 26, 681, 204	3 11 3 43	769, 786 6, 698, 301 1, 071, 625 16, 825, 669	11 3 4 17	7,411,083 72,317,282 3,991,576 6,420,925	29 29	(2) (8) 3,248,889	2	11 1, 151, 907	1 5	(²) 185, 721

NOTE.—In presenting this table certain combinations had to be made to avoid disclosing operations of individual establishments, as follows:

- Includes "Contract work."
 Included in "Knitted cloth."
 Included in "Contract work."
 Included in "Contract work."
- 5 Includes "Knitted cloth" and "Contract work." 5 Included in" Fancy knit goods." 7 Includes "Fancy knit goods." 8 Included in "Underwear."

- Includes "Underwear" and "Contract work."
 Included in "Hosiery."
 Includes "Fancy knit goods" and "Contract work."

KNIT GOODS-VALUE OF PRODUCTS, BY STATES: 1919.

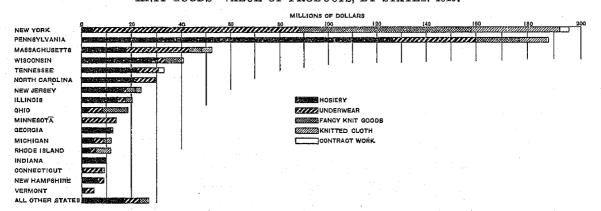


Table 30.—Quantity of Yarn and Sewing Thread Manufactured for Own Consumption in Knit-Goods Establishments, Classified According to Value of Primary Product: 1919.

		ESTABLISHMENTS ENGAGED PRIMARII MANUFACTURING—							
KIND OF YARN OR THREAD.	Total.	Hosiery.	Under- wear.	Fancy knit goods.	Knitted cloth.				
Yarn (pounds)	112, 973, 413 87, 063, 037 5, 861, 147 532, 694	27, 393, 289 21, 386, 958 1, 658, 989 94, 061	52,077,747	3, 958, 343 1, 745, 992	9,639,989 478,968				
mixed)All other	17, 239, 895 2, 276, 640	3, 620, 749 632, 532		4, 144, 314 1, 954	720, 81				
Thread (pounds) Cotton Silk	135, 308 134, 715 593	843 843		7,298	25, 30 25, 30				

TABLE 31.—DISTRIBUTION OF CARDS AND SPINDLES USED IN KNIT-GOODS ESTABLISHMENTS, CLASSIFIED ACCORDING TO VALUE OF PRIMARY PRODUCT: 1919.

				S ENGAGED PRIMARILY IN NUFACTURE OF—				
KIND OF CARD AND SPINDLE,	Total.	Hosiery.	Under- wear.	Fancy knit goods.	Knitted cloth.	Con- tract work.		
Sets of cards Woolen and shoddy Cotton.	3, 347 1 909 2, 438	658 176 482	2,270 505 1,765	188 154 34	221 64 157	10 10		
Spindles Producing. Woolen and shoddy Worsted Cotton. Doubling and twisting.	885, 681 859, 202 234, 353 4, 458 620, 391 26, 479	192, 233 178, 051 40, 520 2, 900 134, 631 14, 182	552, 903 544, 015 119, 687 424, 328 8, 888	59, 985 58, 287 49, 951 176 8, 160 1, 698	54,313 52,762 21,340 1,382 30,040 1,551	26, 247 26, 087 2, 855 23, 232 160		

1 Includes 4 worsted cards.

Knitting machines used in the industry.—The different kinds of knitting machines used in the industry during 1919 are accounted for in Table 32, arranged according to the primary products of the establishments reporting.

TABLE 32.—DISTRIBUTION OF KNITTING MACHINES USED IN KNIT-GOODS ESTABLISHMENTS, CLASSIFIED ACCORDING TO VALUE OF PRIMARY PRODUCT: 1919.

			SHMENT THE MAI			MARILY
CLA#S.	Total.	Hosiery.	Under- wear.	Fancy knit goods.	Knit- ted eloth,	Con- tract work.
Total	172, 363	117,759	22,726	22,045	4, 242	5, 591
Power Flat Full-fashioned flat Circular Circular hosiery, automatic All other Hand (Lamband other varieties)	169, 319 17, 436 9, 420 57, 481 79, 385 5, 597 3, 044	117, 605 4, 957 5, 907 29, 504 73, 799 3, 438 154	22,656 3,241 546 16,362 1,771 736 70	19, 544 8, 359 2, 917 6, 803 478 987 2, 501	4,222 429 1 3,451 34 307 20	5,292 450 49 1,361 3,303 129 299
Spring needle	24, 217	10,458	7,879	2,907	2,268	705
Power Flat. Ribbed. Plain Full-fashioned flat Ribbed. Plain Circular.	23,789 3,223 1,194 2,029 3,660 280 3,380 9,004	10,448 773 585 188 2,767 199 2,568 1,453	7,870 1,605 372 1,233 375 39 336 5,618	2,631 514 229 285 480 42 438 936	2,268 324 8 316	572 7 7 38 38 283
Dibbod	9,094 3,487 6,507	754	2,152 3,466	235 701	1,704 297 1,407	104 179
Plain. Circular hosiery, auto- matic. All other ¹ . Hand (Lamb and other va-	5,715 1,197	5,324 131	3 269	168 533	34 206	186 58
rieties)	428	10	9	276	'	133
Latch needlo	148, 146	107, 301	14,847	19, 138	1,974	4,886
Power Flat. Ribbed Plain Full-fashioned flat Ribbed Plain Circular Ribbed Plain Circular Ribbed Plain Circular Ribbed	145,530 14,213 8,823 5,390 5,760 4,765 47,487 35,715 11,772	107, 157 4, 184 2, 570 1, 614 3, 140 116 3, 024 28, 051 20, 508 7, 543	14,786 1,030 1,231 405 171 94 77 10,744 9,460 1,284	16, 913 7, 845 4, 922 2, 923 2, 437 783 1, 654 5, 867 3, 568 2, 290	1,954 105 72 33 1 1,747 1,190 557	4,720 443 28 415 11 2 9 1,078 989 89
Circular hosiery, auto- matic	73,670 4,400	68,475 3,307	1,768 467	310 45 4	ioi	3, 117 71
rieties)	2,616	144	61	2,225	20	166
Per cent distribution: Total	100, 0	68.3	13, 1	12.8	2. 5	3.3
Power. Flat Full-fashioned flat Circular Circular hosiery,	100. 0 100. 0 100. 0 100. 0	69. 5 28. 4 62. 7 51. 3	13. 4 18. 6 5. 8 28. 5	11. 5 47. 9 31. 0 11. 8	2. 5 2. 5 (3) 6. 0	3. 1 2. 6 0. 5 2. 4
automatic	100.0 100.0	93.0 61.4	2. 2 13. 2	0.6 17.6	(⁸) 5, 5	4. 2 2. 3
variotics)	100.0	5.1	2.3	82.2	0.6	9.8

Includes 244 traverse-loom and 620 warp knitting machines.
 Includes 318 traverse-loom and 520 warp knitting machines.
 Less than one-tenth of 1 per cent.

Sewing machines, active, by states. Table 33 gives the number of sewing machines, by states, for the industry and its branches in 1919.

Number of spinners, knitters, etc., by sex and age.— Wage earners are shown in Table 34 for selected occupations in the several branches for 1919.

Table 33.—Distribution of Active Sewing Machines, Including Loopers, in Knit-Goods Establishments, Classified According to Value of Primary Product: 1919.

		ESTABLIS	e etromhe Iuram	NGAGED I	PRIMARILY OF—	IN THE
STATE.	Total.	Hosiory.	Under- wear.	Fancy knit goods.	Knitted cloth.	Con- tract. work.
United States	72,448	20,663	32,721	12,710	2,887	3,467
Alabama California Connecticut Delaware: Georgia	398 406 1,110 85 931	152 2 40 85 773	161 81 1,018	323 45 75	3	85
Illinois. Indiana. Iowa. Louisiana. Maryland.	1, 871 670 86 137 264	1,051 845 86 137 135	238 325	511		71
Massachusetts Michigan Minnesota Mississippi New Hampshire	4,828 1,571 1,673 37 835	1,029 332 39 37 538	3,167 739 1,558	604 177 76	26 219	2 104
New Jersey New York North Carolina Ohio.	1,810 23,595 3,046 2,016	1, 193 232 2, 085 135	203 13,484 942 945	367 5,722 15 932	1,586 4	2,571 4
Oregon	18, 831 747 307	8, 416 195 275	6, 223 361 32	3,022 42	895 149	275
Tennessee. Utah. Vermont. Virginia.	2, 954 253 524 686	1,670 43 176	983 199 481 502	54	5	296 8
Washington West Virginia Wisconsin All other states	69 200 2, 44 2 48	200 1,214 48	582	646		

Table 34.—Distribution of Spinners, Knitters, Stitchers, Loopers, and Finishers in Knit-Goods Establishments, Classified According to Value of Primary Product: 1919.

		ESTABLISHMENTS ENGAGED PRIMA- RILY IN THE MANUFACTURE OF—						
	Total.	Ho- siery.	Under- wear,	Fancy knit goods.	Knit- ted cloth.	Con- tract work,		
Aggregate	110, 125	47 ,9 36	34, 807	17,372	3, 411	6, 599		
Spinners. Malo. 16 years and over. Under 16 years. Female 18 years and over. Under 10 years.	1.010	564 300 285 15 264 247 17	2,336 1,695 1,642 53 641 597	274 236 232 4 38 38	250 192 192 192 58 53 5	14 5 5 9 9		
Knitters. Male. 18 years and over. Under 18 years. Female 16 years and over Under 18 years.	42,397 14,889 14,500 389 27,508 25,898 1,610	28, 194 6, 809 6, 500 309 21, 385 19, 887 1, 498	4,181 2,382 2,344 38 1,799 1,772	6,655 3,914 3,876 38 2,741 2,689 52	1,321 988 986 2 333 333	2,046 796 794 2 1,250 1,217 33		
Stitchers, loopers, and finishers Male 16 years and over Under 16 years Fomale 18 years and over Under 16 years	228 58, 106 56, 526	19, 178 1, 551 1, 386 165 17, 627 16, 743 884	28,290 1,249 1,223 26 27,041 26,747 294	10,443 763 726 37 9,680 9,571 109	1,840 65 65 1,775 1,501 274	4,539 2,556 2,556 1,983 1,964 19		

TABLE 34.—DISTRIBUTION OF SPINNERS, KNITTERS, STITCHERS, LOOPERS, AND FINISHERS IN KNIT-GOODS ESTABLISHMENTS, CLASSIFIED ACCORDING TO VALUE OF PRIMARY PRODUCT: 1919—Continued.

				S ENGAGED PRIMA- 1ANUFACTURE OF			
	Total.	Ho- siery.	Under- wear.	Fancy knit goods.	Knit- ted cloth.	Con- tract work.	
PER CENT DISTRIBUTION.							
Aggregate	100.0	43.5	31.6	15.8	3.1	6.0	
Spinners	100.0	16.4	67. 9	8.0	7.3	0.4	
Male	100.0	12.4	69.8	9.7	7.9	0.2	
16 years and over		12.1	69.7	9.8	8.2	0.2	
Under 16 years	100.0	20.8 26.1	73.6 63.5	5.6 3.8	5.7	0.9	
Female		26.2	63. 2	4.0	5.6	1.0	
Under 16 years	100.0	25.7	66.7	1	7.6	2,0	
Olida lo judicini	1	1	1		1		
Knitters	100.0	66.5	9.9	15.7	3,1	4.8	
Male	100.0	45.7	16.0	26.3	6.6	5.4	
16 years and over	100.0	44.8 79.4	16.2	26.7 9.8	6.8	0.5	
Under 16 years	1 100.0	10.4	1 9.0	0.0	, 0.0	0.0	

Table 34.—Distribution of Spinners, Knitters, Stitchers, Loopers, and Finishers in Knit-Goods Establishments, Classified According to Value of Primary Product: 1919—Continued.

	-	ESTABLISHMENTS ENGAGED PRIM. RILY IN THE MANUFACTURE OF—						
	Total.	Ho- siery.	Under- wear.	Fancy knit goods.	Knit- ted eloth.	Con- tract work.		
PER CENT DISTRIBUTION-CON.								
Knitters—Continued. Female	100, 0 100, 0 100, 0	77. 7 76. 8 93. 0	6.5 6.8 1.7	10.0 10.4 3.2	1.2 1.3	4.6 4.7 2.1		
Stitchers, loopers, and finishers. Male	100.0 100.0 100.0	29. 8 25. 1 23. 3 72. 4 30. 3 29. 6 56. 0	44.0 20.2 20.5 11.4 46.5 47.3 18.6	16. 2 12. 3 12. 2 16. 2 16. 7 16. 9 6. 9	2.9 1.1 1.1 2.7 17.3	7.1 41.3 42.9 3.4 3.5 1,2		

GENERAL TABLES.

Comparative summary, by states.—Table 35 gives, for 1919, 1914, and 1909, in totals for the United States, and for all states that can be shown, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for the knit-goods industry.

Detailed statement.—Table 36 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 disclosing the operations of individual establishments.

TABLE 35.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

	Cen-	Num- ber of estab-	Wage earners (aver-	Primary	Wagos.	Cost of mate- rials.	Value of prod- ucts.	STATE.	Cen-	Num- ber of	Wage earners (aver-	Primary	Wages.	Vages. Cost of materials.	
STATE.	sus year.	lish- ments.	age num- ber).	horse- power.	Expressed in thousands.		STATE.	sus i year.	estab- lish- ments.	ago num- ber.)	horse- power.	Express	ed in thou	ısands,	
United States	1919 1914 1909	2,050 1,622 1,374	172, 572 150, 520 129, 275	151,601 125,842 103,709	\$125, 200 59, 758 44, 740	\$427,096 146,687 110,241	\$713, 140 258, 913 200, 144	New York	1919 1914 1909	682 483 360	41,372 40,095 35,950	48, 206 41, 127 35, 882	\$34,001 17,814 14,839	\$114,966 43,860 38,677	\$195, 377 78, 229 67, 130
Alabama	1919 1914 1909	10 5 6	1,655 781 611	1,555 738 750	723 176 124	3,275 447 814	4,757 764 591	North Carolina	1919 1914 1909	121 74 62	10,216 7,787 5,151	11,649 7,879 4,024	5, 991 2, 045 1, 080	17, 582 6, 410 3, 012	29, 834 8, 892 5, 152
California	1919 1914 1909	21 16 6	695 405 268	267 146 44	496 197 112	1,517 424 200	2,878 902 452	Ohio	1919 1914 1909	34 38 39	4,407 3,411 3,149	2,688 2,740 1,613	3,033 1,502 1,072	11,079 5,033 3,851	18,779 8,654 6,433
Connecticut	1919 1914 1909	21 25 21	2, 649 2, 904 3, 340	4,594 3,365 3,540	2, 227 1, 296 1, 363	5,849 2,727 3,049	9,333 5,222 5,801	Pennsylvania	1919 1914 1909	606 498 464	44, 156 41, 130 38, 206	26, 359 23, 861 21, 797	30,692 15,382 11,750	116, 697 37, 756 27, 218	188, 261 64, 153 49, 658
Georgia	1919 1914 1909	28 22 22	3, 808 3, 468 2, 743	4,325 3,386 2,948	2, 321 995 719	6,815 3,063 1,872	12,567 4,893 3,233	Rhode Island	1919 1914 1909	26 23 17	1,983 2,030 1,774	1,261 1,802 1,626	1, 561 887 635	7, 389 2, 405 2, 444	11, 936 4, 192 3, 866
Illinois	1919 1914 1909	58 46 43	5, 095 3, 535 2, 913	3, 644 2, 531 3, 452	3,800 1,546 1,116	11,701 4,067 3,232	20, 460 7, 367 5, 947	South Carolina	1919 1914 1909	14 6 7	781 771 839	787 589 597	425 187 152	1,246 409 334	2, 076 749 655
Indiana	1919 1914 1909	8 11 5	2,675 2,338 1,933	1,786 1,985 1,393	2,220 1,022 687	5,615 2,029 915	9,802 3,748 2,381	Tennessee	1919 1914 1909	63 26 22	10,308 5,690 3,117	7,060 4,754 2,758	5, 553 1, 527 724	20, 345 4, 899 2, 120	32, 952 7, 523 3, 565
Maryland	1914 1909	7 10 11	749 1,077 1,022	606 443 460	867 344 234	1,773 644 697	2,687 1,116 1,172	Utah	1919 1914 1909	11	198 183 174	82 47 80	104 66 53	787 283 292	1,156 528 419
Massachusetts	1914		12,751 10,635 9,941	16, 574 12, 309 9, 113	11,364 4,787 8,855	31, 173 9, 267 6, 972	52,424 17,419 14,786	Vermont	1919 1914 1909	7		978 870 962	916 484 411	3,095 1,404 1,089	5,063 2,165 1,746
Michigan	1914 1909	84	8,170 2,714 2,545	3, 073 3, 378 3, 291	2,114 1,006 769	6,790 2,610 2,047	12,039 5,233 4,029	Virginia	1919 1914 1909	13	1,578 2,272 1,715	1,459 1,343 1,079	1,002 751 503	2,902 2,108 1,467	4, 685 8, 516 2, 463
Minnesota	1919 1914 1909	13	3,564 2,088 1,052	1,480 2,149 853	2,298 892 348	7, 487 2, 526 1, 086	13,985 4,665 2,243	Washington 1	1919 1914	10	60	28		160 74	401 167
New Hampshire	. 1919 1914 1909	20	2,979 3,328 3,129	2, 731 2, 722 2, 315	1,983 1,303 1,143	5, 118 2, 379	9.016	Wisconsin	. 1919 1914 1909	68	6, 244 4, 282	3,629 2,312	1 .	3,887	13, 292 7, 848
New Jersey	1919 1914 1909	62	4, 853 4, 025 2, 506	8, 016 2, 516 1, 477	4, 476 2, 244 903	15, 350 3, 335	23,853 7,850	All other states	1919 1914 1909	24	2,586	1,975 1,510 1,343	1 880	1,913	3, 39

TABLE 36.—DETAILED STATEMENT, BY STATES: 1919.

		1		LAD				,					STATE				.1				
			11		NS EN	AAGED	IN THE	INDUSTR	RY.			NEA.	AGE EARN REST REP	ERS DEC	TIVE	DAY.				EXPENS	es.
]]	Num- ber of		Pro-	Sala- ried offi-	Clerk	s, etc.		Wage	earners.				16 an	l over.	Und	er 16.			Sala	ries and	wages.
STATE.	estab- lish- ments	Total.	prie-	cers, super- in-	, r-		Aver-	11	er, 15th	day	7 of—	Total	.				Capi	ital.			
			firm mem- bers.	tend- ents, and man- agers.	Male.	Fe- male.	age num- ber.	Maxin mon		linii mon	num ith.		Male.	Fe- male.	Male	Fe- male.			Offi	cials.	Clerks, etc.
United States.	2, 050	186, 673	1,488	5,210	3,718	3,685	172, 572	De186	, 423 M	fh16	0,438	187, 746	52, 134	125, 440	2, 938	7, 234	516, 45		Doi 20, 16	lars. 5,869 1	Dollars. 2, 160, 713
Alabama California Connecticut Georgia Illinois	10 21 21 28 58	1,696 919 2,848 4,021 5,538	16 5 4	28 49 75 107 147	103 47 74 104	56 72 28 161	1, 655 695 2, 649 3, 808 5, 095	il Tha	,691 J 875 J 738 J 196 M ,213 A	a 2 Ih 3	1,621 604 2,500 3,512 4,940	1,657 802 2,718 4,197 5,148	! ii - 110	1, 049 688 1, 624 2, 351 3, 520	20 2 53 135 59	26 2 129 178 128	3, 10 2, 31 10, 62 9, 38 16, 45		10 17 31 34 59	1, 133 1, 938 2, 500 2, 506 2, 216	14, 942 152, 466 153, 264 77, 391 490, 012
Indiana Maryland Massachusetts Michigan	8 7 77 81	2,968 809 13,596 3,437	3 41	77 43 235 89	136 6 255 98	79 8 314 72	2,675 749 12,751 3,170	De 13 De 3	, 975 M , 416 Jo	.p [y 11	2,627 643 1,970 2,971	2,752 873 13,983 3,542	3,862	1, 685 689 9, 447 2, 638	80 9 184 17	108 23 470 52	6, 32 1, 63 38, 65 9, 12		8 1,11	7, 120 9, 686 7, 126 4, 152	241, 651 26, 930 887, 331 324, 895
Minnesota New Hampshire New Jersey New York	16 16 90 682	4,034 3,098 5,202 45,161	614	56 67 153 1, 226	117 16 69 925	288 27 54 1,024	3,564 2,979 4,853 41,372	No 5 De 45	. 184 Ja	y 2 a 4 Ih 37	3,026 2,648 1,545 7,408	3, 033 3, 229 5, 164 46, 346	1, 190 16, 357	2, 505 2, 183 3, 706 29, 519	36 30 140	41 238 330	11, 014 7, 349 12, 757 165, 827		1 26		615, 916 119, 812 267, 669 2, 902, 589
North Carolina Ohio Pennsylvania Rhode Island	121 34 606 26	10, 773 4, 824 47, 677 2, 136	13 559	307 128 1, 538 88	127 158 747 19	75 118 677 32	10, 216 4, 407 44, 156 1, 983	De 10 De 5 No 48 De 2	,149 F ,132 F	'e 39	9,669 3,586 9,464 1,835	10, 947 5, 122 48, 357 2, 139	3,987 1,008 10,485 506	5,662 4,060 34,019 1,493	242 31 1, 181 23	1,056 23 2,672 117	29, 390 13, 564 110, 359 6, 578		90 5, 27	1,088 3,914 4,701 6,352	264, 534 572, 309 2, 451, 761 83, 250
South Carolina Tennessee Utah Vormont	14 63 10 7	10, 778 295 1, 165	3	35 278 26 25	100 49 16	89 21 17	781 10,308 198 1,105	Au 1	244 Ja ,198 S	th 9 a	723 545 129 949	842 11,016 245 1,108	2,849 24	469 7,616 216 751	10 160 1	36 391 4 2	2, 272 19, 440 704 3, 648	3,779	919 4 9	5, 259 9, 986 8, 950 5, 175	31, 154 421, 377 37, 980 40, 875
Virginia Washington Wisconsin All other states ¹	10 8 72 14	1,649 136 9,934 3,147	3 25	40 10 305 78	18 14 465 40	11 4 403 43	1,578 105 8,736 2,984	De 9	,831 F 164 A ,308 M	e 1 p lh 8	, 207 64 3, 278	1,785 106 9,530 3,065	$\begin{vmatrix} 31 \\ 2.015 \end{vmatrix}$	1, 165 135 6, 249 2, 001	58 392 74	63 874 271	3, 870 268 25, 672 6, 118	3,611 2,325 3,053	13- 26 1,14' 30	4, 537 3, 039 7, 098 9, 083	56, 193 26, 861 1, 811, 463 88, 088
Plant de representant de la companya del companya del companya de la companya del la companya de				EXPE	nses-	contin	ued.	-									POY	WER.			
		les and Con.		I	tent an	d taxe	s.	For ma	terials.							Pri	rimary horsepower.				Elec-
											Valu	10 01	Value added by				Owned.				tric horse- power
STATE.	w	ago	For contract work.	t B.	ent of	Tax Feder stat	ral, 📗	rincipal	Fuel a		produ	nets.	manufac- ture.	M-t-1		sam		nter- nal-	177-	Rent-	gener- ated in estab-
		ners.			tory.	coun and loca	tý, I	aterials.	powe					Total	gi:	ot ir- b	team c tur- ines. t	bus-	Wa- ter pow- er.2	ed.	lish- ments report- ing.
		llars.	D = 27		llars.	Dolla		Dollars.	Dollar		Doll	are	Dollars.	-	-						
United States. Alabama	. 125, 1	99, 820	Dollars 8, 495, 98	$\frac{2}{2}$ $\frac{2}{2}$	2, 445	23, 694,	134 42	1,630,358	5, 465, 2	02	713, 139	0,689 2	86,044,129	_1/		569 7 400	, 431	814 1	2,941	61, 843 1, 155	31, 457 170
California. Connecticut Georgia. Illinois.	2, 2; 2, 3; 3, 8	22, 816 96, 284 26, 926 21, 090 08, 741	15, 67 10, 06 952, 53 488, 01	3 1	2, 583 6, 248 5, 006 5, 414 8, 662			3, 218, 346 , 506, 303 6, 226, 385 6, 672, 995 1, 526, 862			4, 757 2, 878 9, 333 12, 566 20, 466		1,482,043 1,361,087 3,983,556 5,751,771 8,759,328		7 2, 5 1, 4 1,	545 559 447	35		813	267 1, 201 2, 748 2, 167	397 45 765
Indiana	$\begin{array}{c c} 11, 3 \\ 2, 1 \end{array}$	20,459 66,857 64,030 14,308	40, 32 147, 78 226, 86	- 1	1,920 30,023 70,929 98,524	176, 27, 2, 317, 658,		5,548,136 1,744,356 0,730,778 3,655,330			9, 80 2, 68 52, 42 12, 03		4, 186, 576 914, 959 21, 251, 672 5, 248, 991		7, 3 1,	200 270 460	,214		415	216 406 5,333 1,598	933 180 2,055 807
Minnesota New Hampshire New Jersey. New York.	2, 2, 1, 9, 4, 4, 34, 0	97,950 82,887 76,305 00,707	133, 36 261, 37 3, 674, 77	0 70	3, 186 2, 838 36, 415 34, 503			7, 408, 285 5, 047, 034 5, 219, 580 3, 260, 713			13, 98 9, 01 23, 85 195, 37		6, 498, 334 3, 897, 520 8, 503, 177 80, 410, 803		3 1, 6 19,	1	, 130		761	280 447 1,535 19,296	1,452 322 1,027 8,494
North Carolina Ohio Pennsylvania Rhode Island	. 3.0	91, 164 32, 899 91, 815 60, 596	101, 33 14, 89 1, 206, 93 70, 68	10 2 13 1 16 7 36 7	20, 926 16, 651 19, 950 23, 893	693 992 4,555 708		7, 202, 673 0, 990, 123 5, 655, 139 7, 331, 113		29 117 134 103	29, 83 18, 77 188, 26 11, 93		12, 251, 166 7, 699, 604 71, 564, 027 4, 547, 197		8 1, 9 14, 1	- 1	750 80	221 2 85 263 5	304 35	3,680 1,438 11,644 631	1,317 5,853 5,016
South Carolina Tennessee Utah Vermont	1 9	24, 780 53, 414 03, 593 16, 438	22, 85 942, 99 35, 21	. . . l	6,749 34,278 7,545	183		1,212,093 0,082,090 781,242 3,047,498		145 780 144	2, 070 32, 95 1, 150 5, 06		829, 850 12, 607, 114 369, 367 1, 968, 559		0 3, 2	558			135	262 3,824 82 285	11
Virginia Washington Wisconsin All other states ¹	. 5,7	02, 361 71, 375 70, 628 75, 397	42, 45 10 77, 64 30, 55	16 1	29, 829 12, 410 16, 249 7, 624	62 5 1,964 224	,606 ,409 ,839 ,372	2,843,134 157,840 3,988,227 4,576,583	59, 0 2, 2 228, 6 91, 1	006 280 341 114	4,68 40 40,77 8,04	4,504 0,902 7,704 0,643	1,782,364 241,282 16,560,836 3,372,946	1,45 3 5,41 1,97	3 11	920		20	40	415 33 1,493 1,407	2, 193 18

¹ All other states embrace: Delaware, 2 establishments; Iowa, 2; Kentucky, 2; Louisiana, 3; Maine, 2; Mississippi, 1; Oregon, 1; and West Virginia, 1.

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).

SILK MANUFACTURES.

By ARTHUR J. LECK.

GENERAL STATISTICS.

General character of the industry.—The silk-manufactures industry includes mills engaged primarily in throwing and weaving, either as separate establishments or combined in one as a complete mill. Other products of silk, like braids, nets and veiling, thread, spun silk, etc., of less importance in value, are also included under the silk-manufactures industry. Silk knit goods, fish lines, and electrical supplies, however, are not a part of this industry, but are grouped under other industry classifications.

Comparative summary.—The progress of the silk-manufactures industry is shown in Table 1 for each census from 1899 to 1919, inclusive, also the percentages of increase.

Summary for the silk-manufactures industry.—Table 2 summarizes the statistics of the industry for 1919 and 1914, and gives per cent of total and of increase for each of the various items shown.

Principal states, ranked by value of products.—Table 3 presents the more important statistics of the industry, by states, the states being arranged according to value of products reported for 1919. The states shown in the table are given their actual ranking among all states, the rank of certain states for which figures can not be presented being higher than some of those enumerated.

Persons engaged in the industry.—Statistics relating to the number of male and female employees, distributed according to class of employment, are shown in Table 4 for 1919, 1914, and 1909, together with the per cent that each sex forms of the total for each class.

Wage earners, by months, for selected states.—Table 5 gives the total average number of wage earners employed in the silk-manufactures industry, together with the number employed on the 15th (or the nearest representative day) of each month during the year 1919 for each state for which figures can be shown separately, also the percentage in each state which the smallest number forms of the largest number reported for any month. States showing a large proportion of females are also shown, with the per cent the average number of females forms of the total average number of employees for the state.

Wage earners, per cent distribution, by states.—In Table 6 the average number of wage earners is shown, by states, for 1919 and 1914, with per cent of total, for age and sex.

Number of spinners and weavers, by age, sex, and states.—The number of spinners, weavers, and other wage earners is given in Table 7 for the industry, and for five selected states, in 1919 and 1914. The figures shown are for those reported as employed on December 15 or the nearest representative day.

Prevailing hours of labor.—In Table 8 the average number of wage earners employed in the industry during 1919 and 1914 has been classified according to the number of hours of labor per week prevailing in the establishments in which they were employed.

Size of establishments, by average number of wage earners.—Table 9 shows the size of establishments in 1919 and 1914, as measured by the number of wage earners employed, for the industry as a whole and for the leading states.

Size of establishments, by value of products.—The size of establishments based on value of products is given in Table 10 for 1919, 1914, and 1909. While establishments manufacturing products valued at \$1,000,000 or over represented a comparatively small proportion of the total number at the three censuses, they reported 61.7 per cent of the total value of products in 1919, 46.6 per cent in 1914, and 34.8 per cent in 1909, which shows the tendency of the industry to become concentrated in large establishments. In comparing the figures for 1919 and 1914, consideration must be given to the inflation of values on account of war, which resulted in a shift to higher groups of establishments without a material change in status.

Character of ownership.—Table 11 presents statistics with respect to the character of ownership, or legal organization, of establishments in the industry according to states in 1919 and 1914.

Number and horsepower of types of prime movers.— The various types of prime movers, both owned and rented, used in the industry during 1919, 1914, and 1909 are shown in Table 12, with figures for the number and horsepower for each type.

Fuel consumed, by states.—Table 13 gives the quantity of various kinds of fuel used in silk mills, by states.

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

	1919	1014	4000			PER CENT OF INCREASE.1					
	1919	1914	1909	1904	1899	1914- 1919	1909- 1914	1904- 1909	1899- 1904		
Number of establishments		902	852	624	483	51, 8	5. 9	36. 5	29, 2		
Persons ongaged Proprietors and firm members Salariod employees Wage earners (average number)	136,775 1,011 8,982 126,782	115, 571 591 6, 810 108, 170	105,238 664 5,537 99,037	84,153 525 4,027 79,601	68,550 477 2,657 65,416	18.3 71.1 31.9 17.2	$ \begin{array}{c} 9.8 \\ -11.0 \\ 23.0 \\ 9.2 \end{array} $	25. 1 26. 5 37. 5 24. 4	22.8 10.1 51.6 21.7		
Primary horsepower	176,825 \$532,732,163	116,924 \$210,071,679	97,947 \$152,158,002	71,760 \$109,556,621	57,397 \$81,082,201	51. 2 153. 6	19. 4 38. 1	36.5 38.9	25.0 35.1		
Salaries and wages Salaries Wages	108, 226, 330	57,615,374 10,506,905 47,108,469	46,097,364 7,527,279 38,570,085	31,510,213 4,742,270 26,767,943	24,116,546 3,134,352 20,982,194	133.6 151.0 129.7	25. 0 39. 6 22. 1	46. 3 58. 7 44. 1	30. 7 51. 3 27. 6		
Paid for contract work Rout and taxes. Cost of materials. Value of products. Value added by manufacture.	43,146,201 20,594,520 388,469,022 688,469,523 300,000,501	14,550,762 2,031,897 144,442,321 254,011,257 109,568,936	12,008,744 1,570,381 107,766,916 196,911,667 89,144,751	6,859,586 21,040,334 75,861,188 133,288,072 57,426,884	6,570,299 2,829,923 62,406,665 107,256,258 44,849,593	196. 5 913. 6 168. 9 171. 0 173. 8	21, 2 29, 4 34, 0 29, 0 22, 9	75, 1 42, 1 47, 7 55, 2	4. 4 25. 4 21. 6 24. 3 28. 0		

¹ A minus sign (-) denotes decrease.

TABLE 2.—SUMMARY FOR THE TWO BRANCHES OF THE SILK-MANUFACTURES INDUSTRY: 1919 AND 1914.

• ,		1919			PER	CENT	OF TO	PERCENT OF INCREASE, 1914-1919.						
		Establish engaged			Establis engage	19	1919		14		Fin-			
	Total.	Manufac- turing fin- ished silk products, primarily.	Throwing, winding, etc., only (throw- sters).	Total.	Manufac- turing fin- ished silk products, primarily,	Throwing, winding, etc., only (throw-sters).	Fin- ished silk prod- ucts.	Throwsters.	Fin- ished silk prod- ucts.	Throwsters.	Total.	ished silk prod- uets.	Throwsters.	
Number of establishments	1,369	1,040	329	902	695	207	76.0	24, 0	77.1	22.9	51.8	49.6	58.9	
Porsons engaged Proprietors and firm members Salaried employees Wage earners (average number)	8,982	105,660 807 7,511 97,342	31,115 204 1,471 29,440	115,571 591 6,810 108,170	6,104	19,020 111 706 18,203	77.3 79.8 83.6 76.8	22.7 20.2 16.4 23.2	83.5 81.2 89.6 83.2	16.5 18.8 10.4 16.8	18.3 71.1 31.9 17.2	9.4 68.1 23.1 8.2	63.6 83.8 108.4 61.7	
Primary horsepower	176,825 \$532,732,163	115,700 \$447,966,397	61,125 \$84,765,766	116,924 \$210,071,679	83,534 \$173,461,635	33,390 \$36,610,044	65.4 84.1	34.6 15.9	71.4 82.6	28.6, 17.4	51. 2 153. 6	38. 5 158. 3	83, 1 131, 5	
Salaries and wages	134,597,292 26,370,962 108,226,330	111,299,601 22,727,867 88,571,734	23,297,691 3,643,095 19,654,596	57,615,374 10,506,905 47,108,469	51,590,670 9,474,269 42,116,401	6,024,704 1,032,636 4,992,068	82.7 86.2 81.8	17.3 13.8 18.2	89. 5 90. 2 89. 4	10.5 9.8 10.6	133.6 151.0 129.7	115.7 139.9 110.3	286, 7 252, 8 293, 7	
Paid for contract work	43,146,201	40, 197, 415	2,948,786	14,550,762	14,037,432	513,330	93.2	6.8	96.5	3.5	196.5	186.4	474.4	
revenue) Cost of materials. Value of products. Value added by manufacture 1.	20, 594, 520 388, 469, 022 688, 469, 523 300, 000, 501	17,394,020 333,435,945 590,237,835 256,801,890	3,200,500 55,033,077 98,231,688 43,198,611	2,031,897 144,442,321 254,011,257 109,568,936	1,806,819 131,797,946 232,692,381 100,894,435	225,078 12,644,375 21,318,876 8,674,501	85.8 85.7	15. 5 14. 2 14. 3 14. 4	88, 9 91, 2 91, 6 92, 1	11.1 8.8 8.4 7.9	913. 6 168. 9 171. 0 173. 8	862.7 153.0 153.7 154.5	1,322.0 335.2 360.8 398.0	

¹ Value of products less cost of materials.

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

							· ·			
	Number	WAGE	EARNERS		AYINE (F PRODUC	TS.	VALUE MANU	<i>τ</i>	
STATE.	of estab- lish- ments.	Average number.	Per cent distribu- tion.	Rank.	Amount (expressed in thousands).	Per cent distribu- tion.	Rank.	Amount (expressed in thousands).	Per cent distribu- tion.	Rank.
United States.	1,369	126,782	100.0		\$ 688,470	100.0		\$300,001	100.0	
Pennsylvania. New Jersey. New York. Connecticut. Massachusetts	373 686 181 41 21	53, 052 32, 326 13, 342 11, 254 5, 697	41.8 25.5 10.5 8.9 4.5	1 2 3 4 5	231, 711 215, 051 81, 683 68, 053 84, 194	33.7 31.2 11.9 9.9 5.0	1 2 3 4 5	105, 424 91, 609 35, 292 30, 528 14, 950	35.1 30.5 11.8 10.2 5.0	3
Rhodo Island	30 10 6 21	4,150 661 839 5,461	3.3 0.5 0.7 4.3	6 12 11	27, 219 1, 551 1, 534 27, 474	4.0 0.2 0.2 4.0	6 12 13	10, 404 942 826 10, 026	3.5 0.3 0.3 3.3	12 13

² Exclusive of internal revenue.

³ Value of products less cost of materials.

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

	Con-	m-t-1	15-1-	Fe-	PER OF T	CENT OTAL.	22.122	Cen-	Total.	Male.	Fe-	PER C	
CLASS.	sus year.	Total.	Male.	male.	Male.	Fo- male.	CLASS.	sus year.	Total.	Mare.	male.	Male.	Fe- male.
All classes	1919 1914 1909	136,775 115,571 105,238	57,893 49,948 42,216	78,882 65,623 63,022	42.3 43.2 40.1	57.7 56.8 59.9	Clerks and other subordinate salaried employees.	1919 1914 1909	5,331 5,086 3,965	3,027 3,625 3,060	2,304 1,461 905	56.8 71.3 77.2	43. 2 28. 7 22. 8
Proprietors and omcials	1919 1914 1909	4,662 2,315 2,236	4,442 2,225 2,134	220 90 102	95.3 96.1 95.4	4.7 3.9 4.6	Wage earners (average number)	1919 1914 1909	126,782 108,170 99,037	50,424 44,098 37,022	76,358 64,072 62,015	39.8 40.8 37.4	60. 2 59. 2 62, 6
Proprietors and firm members	1919 1914 1909	1,011 591 664	983 569 638	28 22 26	97.2 96.3 96.1	2, 8 3. 7 3. 9	18 years of age and over	1919	120,198	48, 244 41, 599 34, 620	71,954 58,763 56,539	40.1 41.4 38.0	59. 9 58. 6 62. 0
Salaried officers of corporations	1914 1909	1,163 559 480	1,125 549 469	38 10 11	96.7 98.2 97.7	3.3 1.8 2.3	Under 16 years of age	1919 1914 1909	6,584 7,808 7,878	2,180 2,499 2,402	4,404 5,309 5,476	33. 1 32. 0 30. 5	66.9 68.0 69.5
Superintendents and managors	1919 1914 1909	2,488 1,165 1,092	2,334 1,107 1,027	154 58 65	93, 8 95, 0 94, 0	6. 2 5. 0 6. 0							

TABLE 5.—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.]

	Aver- age		NUMBI	er Emplo	YED ON 1	5TH DAY	OF THE A	ionth or	NEAREST	REPRESI	NTATIVE	DAY.		Per
STATE.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	Мау.	June.	July.	August,	Septem- ber.	Octo- ber.	Novem- ber.	December.	mini- mum is of maxi- mum.
United States: 1919. Males. Fornales. 1914		118,907 45,177 73,730 107,769 97,170	118,201 44,644 73,557 109,712 99,473	120,863 46,223 74,640 110,879 100,753	123,114 47,356 75,758 111,706 100,314	125,317 48,395 76,922 112,761 99,212	125, 601 49, 166 76, 435 111, 779 97, 782	127,671 50,139 77,532 111,141 96,634	128, 936 50, 658 78, 278 109, 700 98, 351	129, 999 51, 798 78, 201 107, 193 99, 528	130, 019 52, 815 77, 204 105, 213 99, 629	135,517 54,141 81,376 100,142 90,409	137, 239 54, 808 82, 431 100, 045 100, 294	86. 1 81. 5 89. 2 88. 7 95. 8
Connecticut		10,147	10,310	10,617	10,932	11,268	11,487	11,598	11,697	11,721	11,772	11,813	11,688	85. 9
Maryland		773	768	816	792	798	822	939	918	807	783	871	981	78. 3
Massachusetts		4,665	4,618	4,760	5,083	5,388	5,482	5,900	6,140	6,410	6,512	6,629	6,777	68. 1
New Jersey		30,541	28,628	30,628	31,270	31,698	32,169	32,700	32,689	33,521	34,268	34,786	85,064	81. 6
New York	13,342	12,675	12,781	12,652	12,793	13, 115	13, 237	13,453	13,559	13,326	13,789	14,190	14, 534	87.1
Pennsylvania	53,052	50,128	51,008	51,227	52,072	52, 806	52, 362	53,015	53,618	53,717	52,567	56,762	57, 342	87.4
Rhode Island	4,150	4,046	4,038	4,074	4,098	4, 171	4, 199	4,238	4,099	4,221	5,998	4,288	4, 330	93.3
Virginia.	601	629	663	670	650	634	601	597	681	699	689	697	732	80.7
States showing large proportion of females.									-					Per ct. av. is of state.
Connecticut	4,893	4,574	4,625	4,695	4,775	4,864	4, 928	5,007	5,001	5,017	5,070	5,084	5,076	43, 5
	522	505	463	491	472	485	505	577	563	521	495	562	625	62, 2
	3,668	3,087	3,040	3,124	3,344	3,570	3, 710	3,882	3,995	4,053	4,038	4,074	4,149	64, 4
	17,252	16,460	15,452	16,359	16,827	17,040	17, 336	17,477	17,382	17,786	18,010	18,349	18,540	53, 4
New York	7,970	7,627	7,733	7,586	7,621	7,827	7, 875	8, 106	8, 169	7,904	8, 104	8, 415	8,673	59. 7
Pennsylvania	36,580	35,509	36,047	36,149	36,481	36,781	35, 911	36, 354	36, 835	36,561	36, 165	38, 481	38,686	69. 0
Rhode Island	2,291	2,192	2,232	2,252	2,259	2,344	2, 357	2, 346	2, 281	2,300	2, 176	2, 348	2,405	55. 2
Virginia	433	409	439	435	418	409	395	407	454	459	445	452	474	65. 5

TABLE 6.—PER CENT DISTRIBUTION OF WAGE EARNERS, FOR SELECTED STATES: 1919 AND 1914.

2 - 1			PER (CENT OF TO	OTAL.				PER C	ENT OF TO	OTAL.
STATE.	Cen- sus year.	Wage earners (average number).	and	s of age over.	Under 16 years	STATE.	Cen- sus year.	Wage earners (average number).	16 year and	s of age	Under 16
			Male.	Female.	of age.				Male.	Female.	years of age.
United States	1919 1914 1909	126, 782 108, 170 99, 037	37. 4 38. 5 35. 0	57.4 54.3 57.1	5. 2 7. 2 8. 0	New York	1919 1914	13,342 11,659	39. 8 44. 6	58. 7 52. 4	1. 5 3. 0
Connecticut	1919 1914	11, 254 10, 668	55. 4 52. 8	41.3 43.8	3. 2 3. 4	Pennsylvania	1919 1914	53,052 44,755	28.6 29.6	63. 5 57. 9	7.9 12.5
Maryland	1919 1914	839 874	33. 8 36. 5	60.0 41.4	6, 2 22, 1	Rhode Island	1919 1914	4,150 2,325	43.3 40.1	51, 3 56, 1	5. 4 3. 8
Massachusetts	191 9 1914	5,697 4,495	33. 9 30. 9	60.0 66.6	6. 1 2. 5	Virginia	1919 1914	661 691	31.8 30.8	61. 4 51. 6	6.8 17.6
New Jersey	1919 1914	32, 326 28, 263	45.8 46.7	51.4 51.2	2.8 2.1						

TABLE 7.—WAGE EARNERS, DISTRIBUTED BY OCCUPATION, AGE, AND SEX, FOR SELECTED STATES: 1919 AND 1914.
[Number employed Dec. 15, or nearest representative day.]

												
	UNITED	STATES.	CONNE	CTICUT.	MASSACI	IUSETTS.	NEW J	ersey.	NEW :	YORK.	PENNSYL	VANIA.
OCCUPATION, AGE, AND SEX.	1919	1914	1919	1914	1919	1914	1919	1914	1919]:	1914	1919	1914
Wage earners, total	137,716 130,564 52,404 78,160 7,152 2,368 4,784	106,508 98,820 40,960 57,860 7,688 2,461 5,227	11,687 11,204 6,495 4,799 393 146 247	10,248 9,901 5,412 4,489 347 129 218	6,813 6,398 2,518 3,880 415 131 284	4,533 4,420 1,401 3,019 113 40 64	35,074 34,097 16,177 17,920 977 312 665	27,766 27,179 12,957 14,222 587 186 401	14,404 14,187 5,661 8,526 217 70 147	11,495 11,151 5,126 6,025 344 153 191	57,949 53,606 17,200 36,408 4,343 1,487 2,858	44,051 38,532 13,030 25,502 5,519 1,733 3,786
Spinners, winders, etc. 16 years and over. Male. Female. Under 16 years. Male Female. Female.	54,235 49,425 13,012 36,413 4,810 1,282 3,528	52,702 46,579 13,070 33,509 6,123 1,740 4,383	2,849 2,658 566 2,092 191 80 111	2,957 2,798 573 2,225 159 14 145	3,070 2,863 1,143 1,720 207 33 174	2,097 2,012 435 1,577 85 37 48	8,814 8,230 1,924 6,306 584 153 431	12,463 11,979 3,591 8,388 484 144 340	6,348 6,197 2,186 4,011 151 39 112	6,069 5,926 2,325 3,601 143 31 112	27,586 24,512 5,963 18,549 3,074 817 2,257	24, 888 20, 345 5, 305 15, 040 4, 543 1, 318 3, 225
Weavers. 16 years and over. Male. Female. Under 16 years. Male. Female. Female.	46,528 45,292 22,183 23,109 1,236 735 501	38,736 37,965 20,150 17,815 771 368 403	2,555 2,555 1,757 798	2,934 2,934 2,048 886	1,498 1,498 462 1,036	1,393 1,392 523 869 1	18,772 18,634 10,586 8,048 138 118 20	13, 327 13, 282 8, 265 5, 017 45 23 22	3,163 3,141 1,582 1,559 22 15 7	3,257 3,243 1,849 1,394 14 13	17,313 16,263 6,112 10,151 1,050 597 453	15,362 14,081 6,315 8,366 681 321 360
On broad silk looms. 16 years and over. Male. Fomale. Under 16 years. Male. Female. Female.	37,460 36,492 16,423 20,069 968 651 317	28, 425 27, 726 13, 285 14, 441 699 332 367	1,096 1,096 578 518	1,234 1,234 684 550	1,485 1,485 452 1,033	1,885 1,384 521 863 1	15,418 15,293 8,528 6,765 125 109 16	9,481 9,452 5,917 3,535 29 10	2,108 2,104 912 1,192 4 1	1,873 1,872 877 995 1	14,363 13,550 4,446 9,104 813 536 277	12,006 11,418 4,175 7,243 648 312 336
On ribbon looms 16 years and over Male Female Under 16 years Male Female	6,565 3,960 2,605 268	7, 887 7, 827 5, 071 2, 756 60 33 27	147 147 59 88	96		5 	3,145 3,132 1,849 1,283 13 0	3,545 3,529 2,062 1,467 16 13	701 683 471 212 18 14 4	999 988, 756 233 11 11	2,694 2,457 1,480 971 237 61 176	2,926 2,893 1,963 930 33 9
On velvet and plush looms. 16 years and over. Male. Female.	1,826 1,826 1,476 350	1,804 1,804 1,431 1,431	1,301 1,301 1,109 192	1,493 1,493 1,253 240			135 135 135	150 150 150	174 174 84 90	157 157 69 88	216 216 148 68	154 154 109 45
On all other looms	409 409 324 85	620 608 863 245 12 3	11 11 11	6 6	18 13 10 3	1 1	74 74 74	151 151 136 15	180 180 115 65	228 226 148 78 2 1	40 40 32 8	216 210 68 148
All other 16 years and over Male. Female. Under 16 years Male. Female. Female.	36,953 35,847 17,209 18,638 1,106 351	15,070 14,276 7,740 6,536 794 353 441	6,283 6,081 4,172 1,909 202 66 136	4,357 4,169 2,791 1,378 188 115 73	2,245 2,037 913 1,124 208 98 110	1,043 1,016 443 573 27 12 15	7,488 7,233 3,667 3,566 255 41 214	1,976 1,918 1,101 817 58 19	4,893 4,849 1,893 2,956 44 16 28	2,169 1,982 952 1,030 187 109 78	13,050 12,831 5,125 7,706 219 78 146	3,801 3,506 1,410 2,096 295 94 201

Table 8.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

														1							
			IN	ESTABI HOURS	ISHME OF L	NTS WI LBOR P	ere 1	PHE PR	evaili ere—	NG									THE PR		ING
STATE.	Cen- sus year.	Total,	and un- der.	Be- tween 44 and 48.	48.1	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Over 60,	STATE.	Cen- sus year.	Total.	and un- der.	Be- tween 44 and 48.	48.1	Be- tween 48 and 54.	54,	Be- tween 54 and 60.	60.	Over 60.
United States.	1919 1914 1909	126, 782 108, 170 99, 037	(2)	2,909 (2) (2)	26, 154 1, 169 106	47,286 4,916 2,320	14,241 56,632 2,323	3,322 43,243 81,407	774 2,190 12,881	477 20	New York	1919 1914	13,342 11,659	(²)	(2)	123	1	7,544	58 1,594 1,125	17	
Connecticut	1919 1914	11,254 10,668	214 (2)	(2)	6,911	3,339	209 753	581			Pennsylvania	1919 1914 1919	53,052 44,755 4,150	1 1	(2)	2,794	7772	39, 854	3,701	824	
Maryland	1919 1914	839 874				545	170	294 118	586		Virginia	1914	2,325 661			104		2,247 61	203	•••••	
Massachusetts	1919 1914	5,697 4,495		205 (2)	2,915 330	2,567 22	4,123	10		20		1914	691		•••••	••••			396	295	
New Jersey	1919 1914	32,326 28,263	24, 332 (²)	1,744 (2)	2, 333 33	3,109 1,532	118 534	161 26, 148	52 16	477					* .						

¹ Includes 48 and under for 1914 and 1909

^{*} Corresponding figures not available.

Table 9.-SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

	TO	TAL.							ESTAB	LISHM	ents em	PLOYIN							
STATE.	hments.	arners number).	No wage earn- ers.	1 t wa earn inclu	ge iers,	eari	o 20 age aers, asive.	ear	o 50 age aers, asive.	ear	to 100 age ners, usive.	ear	to 250 age ners, usive.	ear	to 500 age ners, usive.	ea:	to 1,000 vage rners, lusive.	7	er 1,000 vage rners.
	Establishments	Wage earners (average number)	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish. ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
United States 1919	1,369 902	126, 782 108, 170	9 2	141 63	396 186	327 170	4, 192 2, 227	340 213	11,797 7,332	232 179	17,097 13,578	218 164	33,339 25,545	69 77	24, 487 26, 514	19 23	13,458 15,551	14 11	22,016 17,237
Connecticut	41 6 21 686	11,254 839 5,697 32,326	9	109	5 304	7 1 3 227	76 14 34 2,857	10 1 5 171	328 24 164 5,697	5 4 89	362 281 6,666	11 3 5 65	1,763 507 865 9,385	2 1 1 1 14	586 294 473 5,583	2 1 1	1,081 817 794	3 2 1	7,053 3,063 1,040
New York Pennsylvania Rhode Island Virginia	181 373 30 10	13,342 53,052 4,150 661		21 4 4	58 17 8	49 85 4	643 493 55	47 93 8 4	1,692 3,420 259 181	27 93 4 5	1,999 6,715 231 376	22 100 5 1	3,355 15,679 841 104	12 34 3	3,807 11,985 1,014	3 8 2	1,788 5,953 1,742	6	8,790

TABLE 10.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.		UMBER (BLISHME			AGE NUMB LGE EARNI		VAI	UE OF PRODUC	CTS.	VALUE AD	DED BY MANUI	ACTURE.
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes	1,369	902	852	126,782	108,170	99,037	\$ 688,469,523	\$ 254,011,257	\$196,911,667	\$300,000,501	\$109,568,936	\$89,144,751
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	52 140 341 483 175 178	48 122 305 298 70 61	45 130 298 342 37	67 955 8,977 28,474 20,871 67,438	167 2,073 13,527 51,131 41,272	242 1,930 14,713 53,582 28,570	130,468 1,650,448 18,033,508 {118,925,677 125,274,169 424,455,253	133,454 1,627,286 15,739,554 70,572,465 47,638,346 118,300,152	113,378 1,511,784 15,328,061 } 111,378,638 68,579,806	$ \begin{array}{c} 110,473 \\ 1,385,591 \\ 11,715,839 \\ 63,199,553 \\ 54,863,392 \\ 178,725,653 \end{array} $	103,894 1,131,234 8,146,471 } 52,077,901 48,109,436	69,038 1,018,282 8,838,024 51,651,501 27,567,906
							PER CENT DI	STRIBUTION.				
All classes	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 \$5,000 to \$20,000 to \$100,000 \$100,000 to \$100,000 \$500,000 to \$500,000 to \$1,000,000 \$100,000 and over.	3. 8 10. 2 24. 9 35. 3 12. 8 13. 0	5, 1 13, 5 33, 8 33, 0 7, 8 6, 8	5, 3 15, 3 35, 0 40, 1 4, 3	0. 1 0. 8 7. 1 22. 4 16. 5 53. 2	0.2 1.9 12.5 47.3 38.2	0. 2 1. 9 14. 9 54. 1 28. 8	(1) 0.2 2.6 17.3 18.2 61.7	0, 1 0, 6 6, 2 27, 8 18, 8 46, 6	0.1 0.8 7.8 56.6 34.8	(1) 0.5 3.9 17.7 18.3 59.6	0.1 1.0 7.4 47.5 43.9	0, 1 1, 1 9, 9 57, 9 30, 9

¹ Less than one-tenth of 1 per cent.

TABLE 11.—CHARACTER OF OWNERSHIP, BY STATES: 1919 AND 1914.

			MBER TABLE		AVE	RAGE :	NUMBER	OF W	AGE EA	RNERS			V	ALUE OF PRO	DUCTS.			
STATE.	Cen- sus	2	MENTS NED B	3			tablishn wned by		Per c	ent of	total.		Of estab	lishments ow	ned by—	Per co	nt of t	otal.
	J 0411	vid-	Cor- pora- tions	All others.	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Cor- pora- tions.	All others.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora-	All oth-
United States	1919 1914 1909	250 180 180	811 543 468	308 179 204	126,782 108,170 99,037	6,498 8,117 9,746	108,531 86,033 67,387	11,753 14,020 21,904	5.1 7.5 9.8	85.6 79.5 68.1	9.3 13.0 22.1	\$688,469,523 254,011,257 196,911,667	\$38,561,197 16,407,605 19,081,800	\$581,413,071 199,073,261 134,495,867	\$68,495,255 38,530,391 43,334,000	5, 6 6, 5 9, 7	84, 5 78, 4 68, 3	9. 9 15. 2 22. 0
Connecticut	1919 1914	6 8	30 30	5 6	11,254 10,668	568 605	10,586 9,855	100 208	5, 0 5, 7	94.1 92.4	0.9	68,053,429 30,591,825	3,256,528 1,633,023	64,654,251 28,637,731	142,650 321,071	4.8 5.3	95.0 93.6	0. 2 1. 0
Maryland 1	1919	2	4		839		2 839]		100.0		1,534,218		2 1,534,218			100.0	
Massachusetts 1	1919	2	16	3	5,697		5,136	2 561		90.2	9.8	34,193,951		30,909,691	2 3, 284, 260		90.4	9.6
New Jersey	1919 1914	167 96	310 183	209 89	32,326 28,263	3,596 2,447	22,933 20,017	5, 797 5, 799	11.1 8.7	70.9 70.8	17.9 20.5	215,050,560 75,706,449	24,525,311 4,973,964	154, 408, 889 53, 986, 999	36,116,360 16,745,486	11.4 6.6	71.8 71.3	16.8 22.1
New York	1919 1914	39 39	98 75	44 29	13,342 11,659	565 860	10,482 8,702	2, 295 2, 097	4.2 7.4	78. 6 74. 6	17.2 18.0	81,682,572 29,260,763	5,197,046 2,126,468	62,828,610 18,665,119	13,656,916 8,469,176	6.4 7.3	76.9 63.8	16.7 28.9
Pennsylvania	1919 1914	31 26	300 207	42 51		1,330 3,598	48,572 35,487	3, 150 5, 670	2.5 8.0	91.6 79.3	5.9 12.7	231,711,352 86,938,554	3,588,141 5,975,213	212, 131, 125 68, 326, 411	15,992,086 12,636,930	1.5 6.9	91. 5 78. 6	6.9 14.5
Rhode Island	1919 1914	2 4	24 8	4	4,150 2,325	53	4,051 2,272	2 99	2,3	97. 6 97. 7	2.4	27,219,238 7,664,472	136,160	26, 395, 282 7, 528, 312	2 823, 956		97.0 98.2	3.0
Virginia	1919 1914		9	1	661 691		661 691			100.0 100.0		1,550,712 1,772,931		1,550,712 1,772,931			100.0 100.0	

¹ Figures for 1914 not available.

² Includes the group "Individuals."

Includes the group "All others."

TABLE 12.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

	NUMBER O	FENGINES O	R MOTORS.			HORSEPOWE	ER.		
POWER.		4044	40.00		Amount.		Per ce	nt distribut	ion.
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total	22,203	6,036	2,836	176, 825	116,924	97,947	100.0	100.0	100.0
Owned Steam Engines Turbines. Internal-combustion engines Water wheels, turbines, and motors.	1 504	653 527 (2) (2) 53 73	700 535 (2) (2) 64 101	98, 514 88, 221 75, 595 12, 626 1, 966 8, 327	87,669 78,302 (2) (2) 1,762 7,605	81,719 72,059 (2) (2) 1,277 8,383	55.7 49.9 42.8 7.1 1.1 4.7	75.0 67.0 (2) (2) 1.5 6.5	83. 4 73. 6 (2) (2) 1. 3 8. 5
Rented	22,579	5,383 5,383	2,136 2,136	78,311 75,234 3,077	29, 255 28, 748 5, 507	16,228 10,354 5,874	44.3 42.5 1.7	25.0 20.3 4.7	18.6 10.6 6.0
Electric Rented Generated by establishments reporting	35,310 22,579 12,731	13,954 5,383 8,571	5,714 2,136 3,578	107, 982 75, 234 32, 748	47,401 23,748 23,653	23,758 10,354 13,404	100.0 69.7 30.3	100.0 50.1 49.9	100.0 43.6 56.4

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

TABLE 13.—FUEL CONSUMED, BY STATES: 1919 AND 1914.

		cov	LT.	Coke	Fuel	Gaso- line and	Gas		~	co.	AL.	Coke	Fuel	Gaso- line and	Ga#
STATE.	Con- sus year.	Anthracite (tons, 2,240 pounds).	2,000	(tons, 2,000 pounds)	oils (bar- rels).	other volatile oils (bar- rels).	(1,000 cubio feet).	STATE.	Cen- sus year.	Anthracite (tons, 2,240 pounds).	Bitumi- nous (tons, 2,000 pounds.)	(tons, 2,000 pounds)	oils (bar- rels).	other volatile oils (bar- rels).	(1,000 cubic feet).
United States.	1919 1914	306, 165 307, 607	209,717 202,514	1,002	45, 195 2, 962	1,311 (¹)	44,724 148,252	New York	1919 1914	30, 024 26, 831	36,020 21,943		4 167	166 (¹)	16,675 20,209
Connecticut	1919 1914	4, 290 3, 973	81,050 61,604		508	225 (1)	8,011 1,925	Pennsylvania	1919 1914	202,983 196,516	74,034 52,910		530 52	225 (1)	17,053 109,856
Maryland	1919 1914	402	4,622 7,834		3	(1)		Rhode Island	1919 1914	2,663 815	7,809 9,512		41,692	1	
Massachusetts	1919 1914	2,000 2,778	17,488 9,171		310	(1)	38 1,459	Virginia	1919 1914	179 140	1,710 3,622	619	65	(i)	
New Jersey	1919 1914	62, 853 76, 149	22, 131 14, 374	383	562 60	694 (¹)	2,947 7,031	All other states	1919 1914	1,173 3	24,853 22,044		2,407 1,797	(4)	7,772

¹ Included in figures for fuel oils.

² Not reported separately.

SPECIAL STATISTICS.

Summary of materials and products.—The quantity | products are summarized in Table 14 for the industry and cost of materials and the quantity and value of | as a whole and separately for each of the two branches.

TABLE 14.—SUMMARY OF MATERIALS AND PRODUCTS FOR THE TWO BRANCHES OF THE INDUSTRY: 1919 AND 1914.

		1919			1914		PER	CENT DI	STRIBUT	ION.	DED CON	WI OH 201	nnuar 1
		Establis engage			Establis engage	hments d in—	19	19	19	14	PER CEP	T OF INC 914-1919	MEASE,
MATERIAL AND PRODUCT.	Total.	Manufactur- ing finished silk products, primarily.	Throwing, winding, etc., only (throwsters).	Total.	Manufactur- ing finished silk products, primarily.	Throwing, winding, etc., only (throw- sters).	Fin- ished prod- ucts.	Throw- ing, wind- ing, etc.	Fin- ished prod- ucts.	Throw- ing, wind- ing, etc.	Total.	Fin- ished prod- ucts.	Throw- ing, wind- ing, etc.
Materials, total cost	\$388, 469, 022	\$ 333, 435, 945	\$55, 033, 077	\$144, 442, 321	\$1 31 , 7 97 , 946	\$ 12, 644, 375	85.8	14.2	91.2	8.8	168. 9	153.0	335. 2
Frisons, pierced cocoons.	25, 890, 728 \$206, 222, 609	21, 628 919 \$175, 653, 432	4,261,809 \$30,569,177	22, 374, 700 \$86, 416, 857	19, 633, 018 \$77, 038, 819	2, 741, 682 \$9, 378, 038	83. 5 85. 2	16.5 14.8	87. 7 89. 1	12.3 10.9	15. 7 138. 6	10. 2 128. 0	55. 4 226. 0
noils, and other waste: Pounds	11, 461, 588 \$16, 136, 213 \$166, 110, 200	2, 620, 516 \$3, 892, 513 \$153, 890, 000	8,841,072 \$12,243,700 \$12,220,200	4, 328, 536 \$3, 066, 297 \$54, 959, 167	1, 827, 116 \$1, 518, 982 \$53, 240, 145	2,501,420 \$1,547,315 \$1,719,022	22. 9 24. 1 92. 6	77.1 75.9 7.4	42, 2 49, 5 96, 9	57. 8 50. 5 3. 1	164. 8 426. 2 202. 2	43. 4 156. 3 189. 0	253. 4 691. 3 610. 9
Products, total value	\$688, 469, 523	\$ 590, 237, 835	\$98, 231, 688	\$254,011,257	\$2 32, 692, 381	\$ 21, 318, 876	85.7	14.3	91.6	8.4	171.0	153.7	360.8
Thrown silk: PoundsValueOrganzine—	5, 568, 760 \$52, 628, 129	1, 349, 723 \$13, 433, 861	4, 219, 037 \$39, 194, 268	4,070,401 \$16,023,928	1, 196, 370 \$4, 967, 363	2,874,031 \$11,056,565	24. 2 25. 5	75.8 74.5	29. 4 31. 0	70. 6 69. 0	36. 8 228. 4	12.8 170.4	46. 8 254. 5
Pounds Value Tram—	886, 014 \$9, 122, 457	437, 497 \$4, 249, 654	\$4,872,803	1, 492, 999 \$6, 325, 291	491, 742 \$2, 079, 454	1,001,257 \$4,245,837	49. 4 46. 6	50. 6 53. 4	32. 9 32. 9	67.1 67.1	(2) (2)	(2) (2)	(2) (2)
Pounds Value Hard crepe twist—	3,611,901 \$31,494,535	634,724 \$6,128,220	2,977,177 3 25,366,315	2, 577, 402 \$9, 698, 637	704, 628 \$2, 887, 909	1,872,774 \$6,810,728	17.6 19.5	82. 4 80. 5	27. 3 29. 8	72, 7 70, 2	(2) (2)	(2)	(3)
PoundsValueSpun silk:	1,070,845 \$12,011,137	277, 502 \$3, 055, 987	793, 343 \$ 8, 955, 150	(a) (a)	(3) (8)	(3) (3)	25. 9 25. 4	74.1 74.6	(a) (a)	(8) (a)	(³) (8)	(8)	(3)
Pounds	3, 956, 637 \$23, 807, 338	801, 091 \$4, 584, 624	3, 155, 546 \$19, 222, 714	1,607,416 \$4,577,058	690, 821 \$2, 189, 915	916, 595 \$2, 387, 143	20. 2 19. 3	79. 8 80. 7	43.0 47.8	57. 0 52. 2	146. 1 420. 1	16.0 109.4	244. 3 705. 3
Pounds Value	1, 327, 172 \$18, 234, 479	1, 166, 357 \$16, 756, 978	160, 815 \$1,477,501	1,562,039 \$9,681,613	1, 508, 181 \$9, 520, 797	53, 858 \$160, 816	87. 9 91. 9	12.1 8.1	96. 6 98. 3	3.4 1.7	-15.0 88.3	-22.7 76.0	198. 6 818. 8
All other products, value Received for contract work	\$555, 464, 552 \$38, 335, 025	\$545, 858, 441 \$9, 603, 931	\$9,606,111 \$28,731,094	\$215, 328, 051 \$8, 400, 607	\$214, 560, 235 \$1, 454, 071	\$767, 816 \$6, 946, 536	98.3 25.1	1.7 74.9	99.6 17.3	0. 4 82. 7	158. 0 356. 3	154. 4 560. 5	1,151.1 313.6
Raw silk thrown on commis- sion, pounds Organzine, pounds Tram, pounds Hard crape twist, pounds	6, 286, 728 7, 393, 872	1, 436, 275 751, 612 450, 930 233, 733	17,030,439 5,535,116 6,942,942 4,561,381	13, 869, 239 7, 088, 229 6, 781, 010 (*)	1, 023, 138 524, 368 498, 770 (³)	12, 846, 101 6, 563, 861 6, 282, 240 (8)	7.8 12.0 6.1 4.9	92. 2 88. 0 93. 9 95. 1	7. 4 7. 4 7. 4 (3)	92. 6 92. 6 92. 6 (8)	33. 2 (2) (2) (3)	40.4 (2) (2) (8)	32.6 (2) (2) (3) (3)

¹ A minus sign (-) denotes decrease.

Comparative summary of materials.—An itemized | industry is given in Table 15 for 1919 as compared account of the materials used in the silk-manufactures | with 1914, 1909, and 1904.

TABLE 15.—COMPARATIVE SUMMARY OF MATERIALS FOR SILK MANUFACTURES: 1919, 1914, 1909, AND 1904.

MATERIAL.	1919	1914	1909	1904	MATERIAL.	1919	1914	1909	1904
Total cost	\$388, 469, 022	\$144, 442, 321	\$107, 766, 916	\$75,861,188	Silk-Continued.				
Silk:			2		Spun silk, bought as such and used in manufacture—			į	
Raw-	DE 000 200	00 071 800	155 (50 00)		Pounds	4, 767, 679 \$25, 874, 715	3, 209, 309	2,112,972 \$4,848,789	1, 951, 201 \$4, 310, 061
Pounds Cost.	\$206, 222, 609	\$86, 416, 857	17, 472, 204 \$67, 787, 037	11,572,783 \$45,318,416	Cost	\$25, 874, 715	\$8, 094, 427	\$4,848,789	\$4, 310, 061
Bought as such and used in manufacture, unthrown—	· •	, , ,	,,	,	Pounds Cost.	1,868,510	(1) (1)	3	(1) (1)
Pounds	10, 272, 040	(1)	(1)	(L)	Two or more nlv	\$ 10, 732, 794	(1)	(1)	(1)
Cost Bought and thrown in this	\$78, 853, 441	8	(1)	(1)	Two or more ply— Pounds	2, 899, 169	(1) (1)	3	{\bar{1}}
mill for consumption, not					Cost Artificial silk—	\$15, 141, 921	(1)	(1)	(1)
for sale— Pounds	4,809,188		/n	,,	Pounds	3, 039, 257	1, 902, 974	914, 494	466, 151
Cost	\$38, 337, 980	(3)	(1)	(1) (1)	Singles-	, ,	\$3, 440, 154	\$1,926,894	\$1,623,473
Bought and given out for commission throwing—					Pounds	2,667,934	(1) (1)	(2)	(1) (1)
Pounds	10,809,500		(1)	(1) (1)	Two or more ply-	\$13,844,697	(1)	(4)	(+)
Cost Thrown, bought as such and	\$89,031,188	(1)	(1)	(1)	Two or more ply— Pounds	371,323	(1) (1)	(3)	(1) (1)
used in manufacture—	1	1			Yarns, other than silk:	\$2,040,867	(+)	(4)	(1)
Pounds Cost.	6, 125, 490	3,855,899 \$16,703,096	3,377,972 \$14,679,719	3, 236, 744	Cotton (not mercerized)—	15 101 047	10 000 511	10 617 900	0 907 A (0
	402, 401, 800	ŀ	i		Pounds Cost	15, 131, 047 \$14, 151, 863	16, 869, 511 \$6, 163, 240	12,617,292 \$4,687,173	
Organzine— Pounds Cost	2, 240, 671 \$24, 204, 190	(1)	[(}	(1)	Cotton, mercerized—			· ' '	631, 247
Trom		1 1		1	Pounds. Cost	2, 826, 965 \$4, 266, 593	1, 464, 299 \$1, 078, 337	1, 494, 586 \$1, 124, 409	\$471, 035
Pounds	1,793,048 \$17,082,057	8	(3)	(1)	Woolen and worsted— Pounds		' '	610, 588	443, 155
Hard creps twist	1				Cost	\$2, 157, 743	1,987,918 \$2,087,804	\$765, 989	\$409, 867
Pounds Cost	2,091,771 \$21,201,692	8	(1)	(1)	Mohair— Pounds			• 1	•
Frisons, pierced cocoons, noils,			(-)	(-)	Cost	572, 054 \$875, 748	2,645,055 \$1,604,362	710, 108 \$640, 529	
and other waste, bought as such and used in manufac-			1	ļ	Other—	1	' '	353, 780	,
ture—					Pounds Cost.	\$1,338,838	\$438, 944	\$456, 597	\$108, 841
Pounds Cost	11,461,588 \$16,136,213	4,328,536 \$3,066,297			All other materials, cost	' '		,	\$6, 155, 860

¹ Not reported separately.

² Figures not comparable.

⁸ Not reported separately.

Does not include waste, noils, etc., which were included with "All other materials" in 1904.

The materials of the industry are well defined and completely accounted for except possibly in respect to the quantity and value of raw silk used. This is due to the fact that a considerable quantity of raw silk owned by importers, merchants, and dealers is sent to commission throwsters to be made into yarn on a contract basis. The yarn is returned to the owners of the raw silk and later sold by them as organzine, tram, or hard crêpe twist to establishments within the silk-manufactures industry and does not figure in the statistics of materials as raw silk, but as organzine, tram, and hard crêpe twist only. A close approxi-

mation of the quantity of raw silk handled in this way in 1919 may be arrived at by obtaining the difference between the quantity of raw silk thrown on commission, shown in Table 14 as 18,475,714 pounds, and the quantity bought by the industry and given out for commission throwing, shown in Table 15 as 10,809,500 pounds, which is equal to 7,666,214 pounds.

Principal materials used in the industry, by states.— A distribution, by states, of the kind, quantity, and cost of materials used in the industry is shown in Table 16 for the census years 1904 to 1919, inclusive, with per cent of increase, 1909–1919.

TABLE 16.—PRINCIPAL MATERIALS USED IN THE INDUSTRY, BY STATES: 1919, 1914, 1909, AND 1904.

MATERIAL AND STATE.		QUANTITY	(POUNDS).			CO	st.		PER CE INCRE 1909-	ASE,1
	1919	1914	1909	1904	1919	1914	1909	1904	Quan- tity.	Cost.
Raw silk. Connecticut. Massachusetts. New Jersey. New York Pennsylvania. Rhode Island. All other states.	25,890,728	22, 374, 700	17, 472, 204	11,572,783	\$206, 222, 609	\$86,416,857	\$67,787,037	\$45,318,416	48. 2	204. 2
	1,777,775	1, 875, 922	1, 624, 701	1,320,509	13, 544, 641	7,203,562	6,099,209	5,067,381	9. 4	122. 1
	1,109,943	1, 121, 607	920, 308	739,004	9, 219, 540	4,141,624	3,753,207	2,944,279	20. 6	145. 6
	7,966,034	6, 891, 603	6, 112, 647	3,553,090	64, 680, 504	26,613,777	23,705,609	13,920,194	30. 3	172. 8
	2,274,136	2, 339, 776	1, 817, 329	1,006,793	19, 228, 629	9,033,199	7,092,171	3,934,433	25. 1	171. 1
	10,007,598	8, 073, 266	5, 582, 973	3,970,044	80, 527, 565	31,573,509	21,206,972	15,419,221	80. 9	279. 7
	808,948	535, 613	483, 330	262,112	6, 561, 401	1,850,707	2,173,458	1,179,447	67. 4	201. 9
	1,946,294	1, 536, 823	980, 916	721,231	12, 460, 329	5,940,479	3,756,411	2,853,461	98. 4	231. 7
Organzine, tram, and hard crêpe twist. Connecticut. Massachusetts. New Jersey New York Pennsylvania. All other states.	6,125,490 240,429 42,143 3,504,601 718,018 1,425,462 194,837	3,855,890 41,121 1,471,594 337,164 1,760,594 245,426	3,377,972 54,619 1,143,754 335,003 1,719,952 124,644	3,236,744 28,844 1,343,081 603,623 1,202,805 58,391	62, 487, 939 1, 914, 645 404, 464 37, 364, 340 7, 019, 320 13, 882, 065 1, 903, 105	16,703,096 206,051 6,154,447 1,457,062 7,934,419 951,117	14,679,719 238,785 4,899,843 1,471,824 7,531,045 538,222	14, 552, 425 144, 358 5, 832, 154 2, 919, 456 5, 390, 466 265, 991	81. 3 340. 2 206. 4 114. 3 -17. 1 56. 3	325. 7 701. 8 662. 6 376. 9 84. 3 253. 6
Spun silk. Connecticut New Jersey New York Pennsylvania Rhode Island All other states	4,767,679	3,209,309	2,112,972	1,951,201	25, 874, 715	8,094,427	4,848,789	4,310,061	125. 6	433. 6
	1,696,472	1,244,745	596,379	716,607	8, 192, 911	3,340,302	1,425,657	1,609,152	184. 5	474. 7
	724,068	501,912	244,617	154,201	4, 149, 060	1,198,296	628,027	341,298	196. 0	560. 6
	505,289	372,718	315,622	249,896	2, 516, 857	664,480	759,710	734,099	60. 1	231. 3
	1,118,958	- 723,176	695,067	454,074	6, 830, 327	1,845,513	1,560,914	876,485	61. 0	335. 9
	521,040	130,342	73,816	52,145	3, 117, 169	363,934	175,113	139,909	605. 9	1,680. 1
	201,852	236,416	187,471	324,278	1, 068, 391	681,902	293,368	609,118	7. 7	264. 2
Frisons, pierced cocoons, noils, and other waste	11,461,588	4, 328, 536	2,402,960	² 49,811	16, 136, 213	3,066,297	1,637,187	² 187, 159	377,0	885. €
Artificial silk. Connecticut. Massachusetts. New Jersey New York. Pennsylvania. All other states.	3,039,257 202,879 64,183 555,728 1,510,009 481,273 224,285	1,902,974 404,087 487,887 709,611 176,682 124,707	914, 494 18, 192 103, 148 616, 439 127, 486 49, 229	8,066 289,282 127,192 41,611	15, 885, 564 907, 321 335, 551 2, 935, 363 8, 398, 375 2, 269, 013 1, 039, 941	3,440,154 718,026 923,675 1,234,255 834,022 230,176	1,926,894 39,082 197,208 1,309,400 273,646 107,578	1,623,473 35,074 1,039,783 394,126 154,490	232.3 1,015.2 438.8 145.1 277.5 355.6	724. 4 2, 222. 8 1, 388. 5 541. 4 729. 2 860. 7
Cotton yarns (not mercerized). Connecticut. Massachusetts. New Jersey. New York. Pennsylvania Rhode Island All other states.	15,131,047	16,869,511	12,617,292	8,387,048	14, 151, 863	6,163,240	4,687,173	2,586,054	19, 9	201. 9
	4,488,146	4,867,496	2,410,005	1,359,021	3, 597, 015	1,727,259	850,437	439,025	86, 2	823. 0
	752,062	1,046,919	1,225,386	724,594	749, 405	530,121	535,889	264,580	-38, 6	39. 8
	1,877,056	2,975,046	1,889,158	1,054,973	1, 824, 310	1,087,780	781,061	402,480	-0, 6	133. 6
	2,131,644	1,594,878	2,018,612	1,197,943	2, 336, 396	655,489	757,470	401,841	5, 6	208. 4
	4,183,116	3,590,419	2,869,000	2,591,135	4, 059, 169	1,328,708	1,077,157	665,915	45, 8	276. 8
	716,190	1,836,922	1,421,229	969,426	720, 722	500,348	404,141	290,214	-49, 6	78. 3
	982,833	933,831	783,812	489,956	864, 840	333,535	281,018	122,890	25, 4	207. 8
Mercerized cotton yarns. Connecticut. Massachusetts. New Jersey New York. Pennsylvania. All other states.	2,826,965	1,464,299	1,494,586	631, 247	4,266,593	1,078,387	1,124,409	471,035	89.1	279. 5
	93,711	109,219	29,310	21, 560	127,159	93,307	20,270	7,337	219.7	527. 3
	768,018	221,929	158,399	5, 348	1,091,554	181,501	113,253	4,470	384.9	863. 8
	761,122	352,340	490,307	261, 905	1,123,817	313,104	390,198	208,204	55.2	188. 0
	405,545	400,224	483,627	101, 943	681,227	232,957	359,315	74,770	-3.7	89. 6
	255,398	336,904	309,063	227, 944	476,497	217,198	224,029	168,025	-17.4	112. 7
	483,171	43,683	23,880	12, 547	766,339	40,270	17,344	8,229	1,023.3	4,318. 5
Woolen and worsted yarns. New Jersey. New York Pennsylvania. All other states.	038,334	1,987,918	610,588	443,155	2,157,748	2,087,804	765, 989	409, 867	4.5	181. 7
	52,782	396,383	69,169	25,725	179,042	450,763	106, 333	27, 962	-23.7	68. 4
	73,702	203,671	94,622	184,340	184,735	241,485	114, 829	191, 816	-22.1	60. 9
	324,621	454,307	83,075	48,870	1,349,634	569,877	98, 340	47, 969	290.8	1,272. 4
	187,229	933,557	363,722	184,220	444,332	825,679	446, 487	142, 120	-48.5	-0. 5
Mohair and other yarns. Connecticut. New Jersey New York. Pennsylvania. All other states.	1,042,790	2,936,727	1,063,888	269, 319	2,214,584	2,043,306	1,097,126	245,938	-2.0	101, 9
	364,109	1,191,116	559,102	97, 435	715,863	1,201,778	500,545	97,144	-84.9	43, 0
	129,749	169,767	122,303	14, 891	349,961	139,822	170,009	10,622	6.1	105, 8
	138,827	1,486,741	166,370	85, 997	386,249	600,331	217,809	46,223	-16.6	77, 3
	218,948	59,485	186,170	53, 453	478,646	72,016	157,214	74,292	17.6	204, 5
	191,157	29,618	29,937	17, 543	283,865	29,359	51,459	17,657	538.5	451, 6

Silk consumed in all textile mills.—There is a | Table 17 shows the certain quantity of silk consumed in other textile | in all classes of textil mills besides those in the silk-manufactures industry. | 1914, 1909, and 1904.

Table 17 shows the total amount of silk consumed in all classes of textile mills, by industries, for 1919, 1914, 1909, and 1904.

TABLE 17.—SILK CONSUMED IN ALL TEXTILE MILLS (POUNDS): 1919, 1914, 1909, AND 1904.

MATERIAL AND INDUSTRY.	1919	1914	1909	1904	MATERIAL AND INDUSTRY.	1919	1914	1909	1904
Raw silk	27, 580, 046	25,021,945	17, 729, 306	11, 572, 783	Frisons, pierced co- coons, noils, and other				
Silk goods. Cotton manufactures	25, 890, 728 593, 982	22,374,700 1,057,083	17, 472, 204	11, 572, 783	waste	13, 609, 561	(²)	(2)	(2)
Knit goods. Hats, fur-felt.	1, 064, 824 30, 512	1,590,162			Silk goods. Cotton goods. Knit goods.	11, 461, 588 2, 000 200, 744	4, 328, 536 (2) (3)	2, 402, 960 (²) (²)	⁸ 49, 811 (²)
Thrown and spun silk yarn		10,628,502	9, 015, 079	6, 409, 531	Knit goods. Wool manufactures. Woolen goods. Worsted goods. Wool shoddy.	1,945,229 11,690,186 118,832 136,211	(2) (2) (2)	(2) (2) (2) (3)	(2) (2) (2)
Silk goods Cordage and twine Cotton manufactures	10, 893, 169 32, 810	7,065,208	5, 490, 944	5, 187, 945	·				
Cotton manufactures Cotton goods Cotton small wares	1, 489, 387 1, 413, 876	855, 123 714, 093	2, 062, 006 1, 923, 727 138, 270	412,589 369,575	Artificial silk		(2)	(2)	(2)
Cotton small wares. Cotton lace. Knit goods. Wool manufactures. Wool ngoods. Worsted goods. Carpets and rugs.	17,048 5,711,110 530,532	86, 943 54, 087 1, 913, 478 794, 693 1117, 291 404, 370 273, 032	138, 270 982, 753 479, 376 70, 959 211, 577 196, 840	43,014 320,671 488,326 1107,398 304,930 76,000	Silk goods. Cotton manufactures. Knit goods. Wool manufactures. Woolen goods. Worsted goods. Carpets and rugs.	4, 153, 546 39, 990 7, 256	1, 902, 974 450, 427 1, 267, 243 (2) (2) (2) (2) (2)	914, 494 (2) (2) (2) (2) (2) (2) (2)	466, 151 (2) (2) (2) (2) (2) (2) (2) (2)

¹ Includes a small quantity used in felt-goods mills.

Raw silk furnished for contract throwing.—Table 18 gives the number of pounds of raw silk owned by mills in the industry and sent out to commission throwsters or other mills to be made into yarn. The table gives an account of the raw silk by states for a number of census years according to the quantity thrown into organzine, tram, and hard crepe twist, as well as the

total amount of raw silk reported as used in the industry which includes mills doing their own throwing for further manufacture into cloth, etc. Cognizance should be taken of the facts explained in connection with Table 15 with respect to the quantity of raw silk furnished by importers, merchants, and dealers, which also applies to Table 18.

TABLE 18.—RAW SILK FURNISHED FOR CONTRACT THROWING (POUNDS): 1919, 1914, 1909, AND 1904.

	Total	ТИН	OWN UNDE	R CONTRACT	r		Total	THR	OWN UNDE	R CONTRACT	<u>'</u>
STATE.	amount used in the industry.	Total.	Into organzine,	Into tram.	Into hard crêpe twist.	STATE.	amount used in the industry.	Total.	Into organzine.	Into tram.	Into hard crepe twist.
United States: 1919. 1914. 1909. 1904.	25, 890, 728 22, 374, 700 17, 472, 204 11, 572, 783	18,475,714 13,869,239 12,753,002 7,101,851	6,286,728 7,088,229 6,114,209 3,635,384	7, 393, 872 6, 781, 010 6, 638, 793 3, 466, 467	4,795,114	New York: 1919 1914 1909 1904 Pennsylvania:	2, 274, 136 2, 339, 776 1, 817, 329 1, 006, 793	2, 080, 124 1, 060, 699 936, 754 705, 078	1,142,982 563,801 495,053 359,248	759, 346 490, 898 441, 701 345, 830	177, 796 (1) (1) (1)
Connecticut: 1919. 1914. 1909. 1904.	1,777,775 1,875,922 1,624,701 1,320,509	202, 181 122, 187 290, 258 216, 454	23,080 60,483 150,332 131,038	15,000 61,704 139,921 85,416	164, 101 (1) (1) (1)	1919 1914 1909 1904 Rhode Island:	10,007,598 8,073,266 5,532,973 3,970,044	12, 409, 711 9, 754, 295 7, 733, 016 4, 116, 299	4,177,055 5,201,159 4,150,688 2,288,174	4, 493, 723 4, 553, 130 3, 582, 328 1, 828, 125	3,738,333 (1) (1) (1)
Massachusetts; 1919. 1914. 1909.	1 100 043	1,550 5,377 116,543	56,670	1,550 5,377 59,873	(1)	1919. 1914. 1909. 1904. All other states:	808, 948 535, 613 483, 330 262, 112	25, 224 3, 560 88, 000	6, 903 2, 670 68, 000	20,000	18,321 (¹) (¹)
New Jersey: 1919 1914 1909 1904		2, 252, 631 1, 790, 594 2, 661, 205 1, 689, 088	693, 900 693, 593 813, 906 702, 055	1,063,788 1,097,001 1,847,299 987,033	494, 943 (1) (1) (1)	1919	1,946,294 1,536,823 980,916 721,231	1,504,293 1,132,527 1,015,231 286,932	242, 208 566, 523 447, 560 86, 869	1,060,465 566,004 567,671 200,063	201,620 (1) (1) (1) (1)

¹ Not reported separately.

² Figures not available.

³ Not including waste and noils.

Summary of products for the industry.—An itemiza- | of products for the silk-manufactures industry is pretion of the statistics relating to the quantity and value | sented for 1919, 1914, 1909, and 1904 in Table 19.

TABLE 19.—SUMMARY OF PRODUCTS FOR SILK MANUFACTURES IN THE UNITED STATES: 1919, 1914, 1909, AND 1904.

PRODUCT.	1919	1914	1909	1904	Per cent of in- crease, ¹ 1909~ 1919.	PRODUCT.	1919	1914	1909	1904	Per cent of in- crease, 1909- 1919.
Total value	² \$688,469,523	² \$254,011,257	² \$196,911,067	\$133, 288, 072	249. 6	Ribbons, value	\$66, 186, 609 \$52, 047, 330	\$38, 201, 293 (³)	\$32, 7 44, 873	\$21,890,604	102, 1
Broad silks: Yards Value	310, 132, 060	216, 033, 696	185, 707, 316	124, 871, 215	67. 0 263. 1	terials, value Laces, nets, veils, veil-	\$14, 139, 279	(3)	(8)	(3)	
All-silk— YardsValue			i i			ing, etc., value Embroideries, value	\$5, 825, 359 \$127, 522	\$1,328,933 \$33,500	\$1,350,850 \$485,322	\$745, 489 \$112, 362	331. 2 -73. 7
In the grav		· ·				Fringes and gimps,	\$3,020,560	\$1,025,188	\$824,527	\$1,016,954	267. 1
Yards Value	86, 919, 172 \$101, 976, 095	(8) (8)	(8) (3)	(3) (8)		Braids and binding, value Tailors' trimmings,	\$13, 218, 284	\$3,073,648	\$1, 483, 248	\$3,493,977	194.8
Piece-dyed— Yards	64,771,760 \$89,458,930	59, 304, 041 \$38, 819, 874)			value	\$6 34, 058	\$210,741	\$41,040	\$700	1, 445. (
Value Printed—			2011 000,000	21, 334, 584 \$9, 276, 445		value	\$6 82, 909	\$431, 422	\$346,963		
Yards Valuo Yarn-dyed	1 ' '					Pounds	773, 843 \$10, 644, 095	659, 540 \$4, 036, 807	1,088,780 \$6,341,719	932, 998 \$5, 521, 055	-28.9 67.1
Yards Value Warp-printed Yards Value Mixed goods	85, 414, 154 \$118, 199, 476 480, 247 \$946, 689	\$55, 232, 096	95, 183, 248 \$63, 118, 049	76, 536, 133 \$46, 668, 543	4	silks: Pounds Value. Fringe and floss silks: Pounds	515, 222 \$7, 080, 813 38, 107	902, 499 \$5, 644, 806	747, 246 \$ 4, 179, 355		
Yards Value In the gray—	64, 271, 142 \$69, 233, 137	73, 320, 337 \$41, 029, 763	70, 830, 675 \$33, 409, 855	1	-9.3 107.2	Value Organzine, for sale: Pounds	\$500, 571 886, 014	1,492,999	1,077,931	41	17. 71.
Yards Value	41, 869, 419 \$35, 722, 740	(8) (8)	(3) (3)	(8) (3)		Value Tram, for sale:	\$9, 122, 457 3, 611, 901	2,577,402	\$5, 830, 528 1, 662, 388	2,020,010	1)
Piece-dyed— YardsValue	8,933,396	1	40, 044, 433	15, 603, 353		PoundsValue Hard crêpe twist, for sale:	\$31, 494, 535	\$9,698,637	\$7, 219, 982		336.
Printed— Yards Value	1, 248, 244 \$1, 138, 154	310, 731 \$203, 848	\$15,728,195			PoundsValueSpun silk, for sale:	1, 070, 845 \$12, 011, 137	(3) (3)	(3)	(3) (3)	
Yarn-dyed— Yards Value	1 \$19, 429, 163	3 450 000	30,786,242	11,307,145		Pounds Value	3, 956, 637 \$23, 807, 338	1,607,416 \$4,577,058	779, 462 \$2, 104, 066	570, 529 \$1,660,647	407. 1,031.
Warp-printed— Yards Value	185, 981	\$18, 982, 860	\$17,681,660	\$6,573,120		Singles— Pounds Value Two or more ply—	1, 764, 028 \$11, 733, 463	(3)	(3)	(8)	
Velvets: Yards Value	16, 150, 689	16, 318, 135	10,093,583 \$4,767,990	7,262,316 \$3,161,206	60.0 339.4	PoundsValue	2, 192, 609 \$12, 073, 875	(3)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(8)	
Plushos: Yards Value	5,860,52 \$21,601,280	9, 114, 992	2,759,411 2 \$2,104,768	2,547,367 \$1,340,81	112. 4 926. 3	PoundsValue	829, 083 \$5, 423, 242	(1)	(4) (4)	(1)	
Upholstery and tapes tries: Yards	516, 28	1 477, 699	226, 71	1,766,210	127.7	All other products,	\$23, 895, 971	\$13,757,772	\$7, 958, 120	\$8, 164, 560	200.
Value			\$382,820	\$1,559,98	2 463.4	Received for contract work	\$38, 335, 025	\$8, 400, 607	\$8, 364, 350	\$3,716,056	358.

¹ A minus sign (—) denotes decrease.
2 In addition, in 1910, similar classes of silk goods to the value of \$658,030; in 1914, to the value of \$1,776,660; and in 1909, to the value of \$1,218,101, were reported by establishments engaged primarily in other industries.
8 Not reported separately.
4 Included in "All other products."

Articles included in "All other products."-Certain products of the silk industry were reported and name specified under "All other products" by establishments reporting in 1919, a total for which is shown in Table 19, but given in detail with values in Table 20.

TABLE 20.—ARTICLES INCLUDED IN "ALL OTHER PRODUCTS": 1919.

KIND.	Value.	KIND.	Value.
Total value. Trimming, cords, tassels, ornaments, etc., other than military and tailors' trimmings. Mufflers and belts. Crayats and tubular neckties.	3, 439, 688 87, 101	Labels. Miscellaneous products, other than silk (cotton and woolen yarn, cotton fabrics, etc.). Silk hosiery and knitted fabrics. Miscellaneous unclassified silk fabrics.	11, 238, 916 1, 286, 969

Principal products of silk manufactures, by states. A selection of the principal products reported by the industry has been made, statistics for which are shown, by states, for 1919, 1914, 1909, and 1904 in Table 21.

Table 22 gives, for 1919, 1914, 1909, and 1904, the per cent distribution, by states, of the quantity and Table 23 of the value of all products for which figures are shown in Table 21.

TABLE 21.—PRINCIPAL PRODUCTS OF SILK MANUFACTURES, BY STATES: 1919, 1914, 1909, AND 1904.

		rnaug	TITY.			VALU	E.	
PRODUCT AND STATE.	1919	1914	1909	1904	1919	1914	1909	1904
Groad silks Connecticut. Massachusetts. New Jersey. New York. Penusylvania. Rhode Island. All other states.	Yards. 310,132,060 11,696,309 9,545,064 108,547,532 18,512,031 124,747,755 24,073,376 13,009,993	Yards. 216,033,696 9,177,620 8,618,521 09,103,010 15,454,751 90,727,907 11,301,106 11,590,778	Yards. 185,707,316 11,454,011 9,608,788 64,788,109 15,217,298 65,569,386 11,649,145 7,360,489	Yards. 124,871,215 7,562,166 4,235,637 46,700,737 10,896,809 43,552,924 6,497,937 5,425,005	\$391,735,902 16,664,633 17,972,808 147,569,327 25,104,956 152,574,138 20,485,693 11,664,347	\$137,719,564 5,884,845 6,954,245 48,020,187 9,102,192 57,451,134 4,572,591 5,734,370	\$107,881,146 5,890,233 5,898,231 43,167,205 9,042,488 35,772,192 4,415,641 3,695,156	\$66, 917, 762 4, 037, 599 3, 057, 123 28, 188, 608 6, 382, 758 20, 822, 530 2, 331, 430 2, 097, 708
All-silk		142,713,359 5,691,366 (1) 52,049,169 12,778,648 64,052,216 522,010 7,619,950	114, 876, 641 7, 724, 079 (1) 52, 403, 047 8, 707, 603 41, 600, 686 836, 305 3, 604, 921	97,870,717 6,812,551 (1) 42,327,218 10,002,610 33,624,116 643,979 4,400,243	322,502,765 12,362,887 10,763,763 133,227,850 19,883,732 126,211,810 13,471,763 6,581,010	96, 689, 801 3, 817, 321 (1) 36, 905, 379 7, 149, 555 42, 833, 383 382, 471 5, 601, 692	74, 471, 291 4, 146, 923 (1) 35, 553, 705 5, 946, 921 26, 873, 332 403, 522 2, 546, 888	55, 944, 98; 3, 056, 74' (1) 25, 594, 66 5, 836, 84 18, 205, 78 211, 97 2, 438, 97
In the gray. New Jersey. New York. Pennsylvania. All other states.	86,919,172 38,060,437 3,681,272 27,527,413 17,650,050	(2) (2) (2) (2) (2) (2)	(2) (2) (2) (2) (2)	(2) (2) (2) (2) (2) (2)	101,976,095 43,582,783 4,933,499 35,070,760 18,389,103	(2) (2) (2) (2) (2)	(2) (2) (2) (2) (2)	(2) (2) (2) (2) (2)
Piece-dyed and printed Now Jersey		63, 832, 494 21, 243, 602 7, 428, 781 26, 320, 988 8, 840, 023	19,693,393 4,763,872 2,306,169 4,576,128 7,987,224	21,334,584 3,874,771 4,272,422 7,325,103 5,862,288	101, 380, 505 50, 970, 277 9, 572, 602 28, 709, 858 12, 127, 768	41, 457, 105 14, 648, 890 3, 490, 384 18, 058, 376 5, 253, 455	11,353,242 3,200,166 1,147,251 2,920,664 4,085,161	9, 276, 441 2, 175, 03 1, 900, 461 2, 709, 661 2, 485, 27
Yarn-dyed, including warp-printed. Connecticut. Massachusetts. New Jersey. New York. Pennsylvania. All other states.		78, 880, 865 1, 290, 753 3, 058, 187 30, 805, 567 5, 349, 867 37, 732, 128 644, 303	95,183,248 926,819 1,717,102 47,039,175 6,341,434 37,024,558 1,534,160	76,530,133 1,852,560 1,149,292 38,452,447 5,730,188 26,299,013 3,052,633	119, 146, 165 1, 957, 380 9, 309, 006 38, 674, 840 5, 377, 631 62, 431, 192 1, 396, 116	55, 232, 696 1, 224, 013 2, 809, 121 22, 256, 489 3, 653, 171 24, 775, 007 514, 895	63,118,049 823,104 1,253,922 32,353,539 4,799,670 22,952,668 935,146	46,668,54 1,447,79 1,043,57 23,419,62 3,930,37 15,496,12 1,331,05
Silk-mixed. Connecticut. Massachusetts. New Jersey. New York. Peunsylvania. Rhode Island. All other states.	64, 271, 142 2, 866, 100 3, 845, 589 9, 064, 386 4, 455, 836 25, 475, 670 11, 669, 298	73, 320, 337 3, 486, 254 (1) 17, 113, 841 2, 676, 103 26, 675, 691 10, 779, 096 12, 589, 352	70, 830, 675 3,729, 932 (1) 12, 385, 152 6, 509, 695 23, 968, 700 10, 812, 840 13, 424, 356	27,000,498 749,615 (1) 4,373,519 894,199 9,928,808 5,853,958 5,200,399	69, 233, 137 4, 301, 796 6, 909, 045 14, 341, 477 5, 221, 224 26, 362, 328 7, 013, 930 5, 083, 337	41,029,763 2,067,524 (1) 11,114,808 1,952,637 14,017,751 4,190,120 7,080,923	33,409,855 1,743,310 (1) 7,613,500 3,095,567 9,898,860 4,012,119 7,046,499	10, 972, 77 380, 85 (1) 2, 593, 94 545, 91 2, 616, 74 2, 119, 45 2, 715, 85
In the gray. Connecticut New Jersey. Pennsylvania Rhode Island All other states	41,860,419 1,538,937 434,643 20,919,703 11,345,910 7,630,220	(2) (3) (2) (2) (2) (3) (2)	(2) (2) (2) (2) (2) (3)	(2) (2) (2) (2) (2) (2) (2)	35, 722, 740 2, 593, 933 738, 285 19, 920, 144 6, 046, 766 5, 823, 012	(2) (2) (2) (2) (2) (2) (2) (2)	(2) (2) (2) (2) (2) (2) (2)	(2) (2) (2) (2) (1) (2)
Piece-dyed and printed New Jersey New York Pennsylvania All other states	10, 181, 640 3, 916, 893 2, 929, 574 742, 803 2, 592, 310	39, 870, 034 8, 269, 269 1, 847, 722 18, 235, 594 11, 517, 449	40,044,433 3,584,329 4,518,084 15,583,924 16,358,096	15,603,353 1,331,283 3,247 8,461,557 5,807,310	13,849,095 6,103,987 3,211,950 1,245,053 3,288,105	22,046,903 5,171,512 1,444,499 9,835,242 5,595,650	15,728,195 1,834,553 1,946,309 5,360,206 0,587,127	4,399,6; 439,9; 4,3; 1,718,1; 2,237,2;
Yarn-dyed, including warp-printed. Now Jersey. New York Pennsylvania. All other states.	3,043,582	33,450,303 8,844,572 828,381 8,440,097 15,337,253	30,786,242 8,800,823 1,991,611 8,384,776 11,609,032	11, 397, 145 3, 042, 286 890, 952 1, 467, 251 5, 996, 656	19,661,302 7,499,205 963,405 5,197,131 6,001,561	18, 982, 860 5, 943, 296 508, 138 4, 782, 509 7, 748, 917	17,681,660 5,778,947 1,149,258 4,538,054 6,214,801	0,573,1 2,154,0 541,5 898,6 2,978,8
Velvets. Connecticut All other states.	1	16,318,135 15,385,563 932,572	10,093,583 9,741,329 352,254	7, 262, 315 7, 154, 387 107, 928	20,950,239 19,197,396 1,752,843	8,570,022 8,060,314 509,708	4,767,990 4,519,238 248,752	3, 161, 2 3, 096, 4 64, 7
Plushes		9,114,992 477,699	2,759,411 226,717	2,547,367 1,766,210	21,601,280 2,156,617	10,135,842 840,126	2,104,768 382,820	1,340,8 1,559,9
Organzine, tram, and hard crêpe twist. Massachusetts New Jersey New York Pennsylvania All other states	83,630 1,813,315 845,796 1,657,264 1,168,755	Pounds. 4,070,401 79,871 874,053 1,004,506 1,306,688 805,285	Pounds. 2,740,319 14,592 266,458 330,026 1,642,004 487,239	Pounds. 2,025,645 65,482 171,187 99,866 1,396,424 292,680	52,628,129 830,277 15,912,324 10,889,269 16,481,230 8,515,029	16,023,928 375,021 3,058,454 4,058,804 5,163,732 3,367,917	12,550,510 64,706 1,240,406 1,354,540 7,475,327 2,415,531	9,190,0 293, 777,5 420, 6,124, 1,574,
Spun silk	1	1,607,416 659,540	779,462 1,088,780	570,529 932,998	23,807,338 10,644,095	4,577,058 4,036,807	2,104,066 6,341,719	1,660, 5.521.
Machine twist. Connecticut. All other states.		434, 893 224, 647	573,031 515,749	932,998 614,729 318,269	II	4,036,807 2,621,887 1,414,920	6,341,719 3,524,361 2,817,358	5,521, 3,618, 1,902,
Sewing and embroidery silks. Connecticut. All other states.	515,222 131,041 384,181	744,708 268,800 475,908	660,507 255,322 405,185	606,357 167,485 438,872	7,089,813 2,095,511 4,994,302	5,046,452 1,816,758 3,229,694	3,778,306 1,581,544 2,196,762	3,927, 953, 2,974,
Fringe and floss silks	38,107	157,791	80,739	205,354	500,571	598, 354	401,049	697
Artificial silk yarn. New Jersey. New York. All other states.	829,083 128,186 599,286 101,611	(3) (3) (8) (3)	(8) (8) (3) (3)	(3) (8) (3) (3)	5, 423, 242 882, 034 4, 361, 923 179, 285	(8) (3) (3) (8)	(3) (3) (3) (3)	(3) (3) (8) (3)

¹ Included in "All other states."

³ Included in piece-dyed and yarn-dyed.

⁸ Included with "All other products."

TABLE 21.—PRINCIPAL PRODUCTS OF SILK MANUFACTURES, BY STATES: 1919, 1914, 1909, AND 1904—Continued.

		ĀŸĪ	UE.		THE CONTROL LAND CONTROL	VALUE.				
PRODUCT AND STATE.	1919	1914	1909	1904	PRODUCT AND STATE.	1919	1914	1909	1904	
Ribbons Connecticut New Jersey New York Pennsylvania All other states Laces, nets, veils, veilings, etc. New Jersey New York All other states Fringes and gimps New York All other states Braids and bindings Connecticut Massachusetts New Jersey New Jersey	23, 360, 039 1, 153, 004 5, 825, 859 2, 031, 122 2, 416, 329 1, 377, 908 3, 026, 560 1, 973, 967 1, 052, 593	13, 607, 159 874, 425 1, 328, 933 650, 634 652, 189 26, 110 1, 025, 188 665, 894 359, 294	10, 008, 146 378, 786 1, 350, 850 531, 923 794, 640 24, 287 824, 527 560, 027 284, 500 4, 488, 248 134, 427 286, 308	745,489 414,891 291,400 39,198 1,016,954 472,410 3,493,977	All other products. Connecticut. Massachusetts. New York. Pennsylvania Rhode Island All other states. Amount received for contract work Connecticut. New Jersey.	25, 340, 460 1, 929, 345 2, 469, 357 4, 909, 575 6, 540, 297 4, 434, 433 1, 448, 954 3, 602, 499 38, 335, 025 732, 897	3,139,067 2,466,731 2,888,643 2,627,782 1,853,620 1,142,930 8,400,607 135,603 1,661,628 745,744 5,208,322	8, 881, 445 778, 081 79, 807 1, 659, 748 3, 660, 554 2, 478, 784 17, 476 167, 046 8, 364, 350 203, 332 2, 436, 573 006, 010 4, 416, 978	265,11 3,716,05 230,61 998,89 268,25 1,994,31	

TABLE 22.—PER CENT DISTRIBUTION OF THE QUANTITY OF PRODUCTS, BY STATES: 1919, 1914, 1909, AND 1904.

PRODUCT AND STATE.	1919	1914	1909	1904	PRODUCT AND STATE.	1919	1914	1909	1904
Broad silks. Pennsylvania. New Jersey. Rhode Island. New York. Connecticut. Massachusetts.	100. 0 40. 2 35. 0 7. 8 6. 0 3. 8 3. 0 4. 2	100. 0 42. 0 32. 0 5. 2 7, 2 4. 2 4. 0 5. 4	100. 0 35. 3 34. 9 6. 3 8. 2 6. 2 5. 2 4. 0	100. 0 34. 9 37. 4 5. 2 8. 7 6. 1 3. 4 4. 3	Broad silks—Continued. Silk-mixed—Continued. In the gray. Pennsylvania Rhode Island Connecticut New Jersey. All other states.	100. 0 50. 0 27. 1 3. 7 1. 0 18. 2	(1) (1) (1) (1) (1) (1)	(1) (1) (1) (1) (1) (1)	(F) (C) (C) (C) (C) (C)
All other states	100. 0 40. 1 40. 5 5. 7 5. 0	100. 0 44. 9 36. 5 8. 9	100. 0 36. 2 45. 6 7. 6	100. 0 34. 4 43. 2 10. 2	Piece-dyed and printed New Jersey New York Pennsylvania All other states	100, 0 38, 5 28, 8 7, 3 25, 4	100. 0 20. 7 4. 6 45. 7 28. 9	100. 0 9. 0 11. 3 38. 9 40. 8	100.0 8,5 54.2 37.2
Connecticut. Massachusetts. All other states.	3. 6 2. 3 2. 5	4.0 5.7§	3,9	7. 0 5. 2	Yarn - dyed, including warp- printed New Jorsey New York	100, 0 38, 6 31, 2 5, 3	100. 0 26. 4 25. 2 2. 5	100. 0 28. 6 27. 2 6. 5	100.0 26.7 12.9 7.8
In the gray. New Jersey. Pennsylvania. New York. All other states.	43. 8 31. 7	(1)	9999	0.50.50 10	Pennsylvania. All other states. Velvets. Connecticut.	24, 9 100, 0 93, 4 6, 6	45. 9 100. 0 94. 3 5. 7	37.6 100.0 96.5 3.5	52. 6 100. 0 98. 5 1. <i>t</i>
Piece-dyed and printed New Jersey Pennsylvania New York All other states.	50. 0 28. 6	100.0 33.3 41.2 11.6 13.9	100.0 24.2 23.2 12.0 40.5	100.0 18,2 34.3 20.0 27.4	All other states. Organzine, tram, and hard crêpe twist. New Jersey. Pennsylvania. New York. Massachusetts.	100.0 32.6 29.7 15.2 1.5	100. 0 21. 5 32. 1 24. 7 2. 0 19. 8	100.0 9.7 59.9 12.0 0.5	100, (8, 8 68. 9 4, 9 3. 14, 4
Yarn - dyed, including warp- printed. Pennsylvania New Jorsey Massachusetts.	59. 2 28. 4 5. 7	39. 1 3. 9	100. 0 38. 9 50. 0 1. 8 6. 7	100.0 34.4 50.2 1.5 7.5	All other states. Machine twist. Connecticut All other states.	21.0 100.0 72.8 27.2	100.0 65.9 34.1	100, 0 52, 6 47, 4	100. (65. 9 34.
New York	1.1	1.6 0.8	1,0	2.4 4.0 100.0	Sowing and embroidery silks	100.0 25.4 74.0	100.0 36.1 63.9	100.0 38.7 61.3	100. (27. (72.
Silk-mixed. Pennsylvania. Rhode Island. New Jersey. New York.	39. 6 18. 2 14. 1 0. 9	36.4 14.7 23.3 3.6	100.0 33.8 15.3 17.5 9.2	36.8 21.7 16,2 3.3	Artificial silk yarn New York New Jersey All other states.	100. 0 72. 3 15. 5	(1)	(1) (1) (1)	(1) (1) (1)
Massachusetts Connecticut All other states	. 4.5	4.8		2.8 19.3				<u> </u>	

¹ Not reported separately.

TABLE 23.—PER CENT DISTRIBUTION OF THE VALUE OF PRODUCTS, BY STATES: 1919, 1914, 1909, AND 1904.

STATE.	Total.	Broad silks.	Velvets and plushes.	Ribbons.	Sewing and embroidery silks.	Organzine, trant, and hard crépe twist.	Fringes and gimps, braids, and bindings.	All other products.	Contract work.	STATE.	Total.	Broad silks.	Velvets and plushes.	Ribbons.	Sewing and embroidery silks.¹	Organzine, tram, and hard crêpe twist.	Fringes and gimps, braids, and bindings.	All other products.	Contract work.
United States.	100.0	100.0	100, 0	100.0	100.0	100.0	100.0	100.0	100.0	New York-Con.	13.5	8.4	(2) (2)	19.1	(2) (2)	10.8	58.9	39, 9	7. 2 7. 2
Connecticut: 1919 1914 1909 1904 Massachusetts: 1919 1914 1909 1904	9.9 12.0 10.7 11.7 5.0 4.2 4.5 5.3	4.3 4.3 5.5 6.0 4.5 5.0 5.5 4.6	76. 1 72. 8 86. 7 87. 4	1. 5 1. 4 3. 4 5. 3 (2) (2) (2) (2) (2)	54, 3 46, 2 48, 6 45, 1 (2) (2) (2) (2) (2)	(2) (2) (2) (2) (2) 1.6 2.3 0.5 3.2	1.0 0.5 2.5 1.8 6.6 4.6 5.5 7.5	10. 4 25. 8 14. 6 10. 3 17. 8 4. 8 3. 6 5. 7	1. 9 1. 6 3. 5 6. 2 (2) (2) (2) (2) (2)	1909 1904 Pennsylvania: 1919 1914 1900 1904 Rhode Island: 1919 1914 1909 1904	15. 1 33. 6 34. 2 31. 5 29. 5 4. 0 3. 0 2. 3 1. 9	9.5 38.9 41.7 33.2 31.1 5.2 3.3 4.1 3.5	(2) (2) (2) (2)	22, 8 35, 3 35, 8 30, 6 25, 5	(2) (2) 8.3 7.8 8.3	4. 6 31. 3 32. 2 59. 0 66. 6	57. 3 16. 6 14. 9 13. 4 17. 2 (2) (2) (2) (2) (2)	46. 2 15. 0 13. 4 20. 7 22. 6 10. 5 14. 5 0. 8	7, 2 58, 4 62, 0 52, 8 53, 7 (3) (2) (2) (2) (2)
New Jersey: 1019	32.2 11.9	37.7 34.9 40.0 42.1 6.4 6.6	(2) (3) (2) (2) (2)	45. 8 46. 9 45. 7 45. 8 15. 7 13. 6	(2) (2) (2) (2) (2) (2) (2)	30. 2 19. 1 9. 9 8. 5 20. 7 25. 3	5. 4 6. 3 14. 8 9. 6 61. 5 61. 0	12. 9 15. 3 18. 3 11. 8 27. 6 20. 8	22, 2 19, 8 29, 1 26, 9 10, 1 8, 9	All other states: 1919. 1914. 1909.	1. 9 4. 4 5. 2 4. 2 4. 3	3, 0 4, 2 3, 4 3, 1	23. 9 27. 4 13. 3 12. 6	1.7 2.3 1.2 0.7	45. 7 45. 5 43. 6 46. 7	16. 2 21. 0 19. 2 17. 1	8.9 9.0 4.8 6.6	5. 8 5. 4 2. 1 2. 5	7. 7.7 7.3 6.0

¹ Includes machine twist, fringe, and floss silks.

2 Included in "All other states."

Contract work.—Table 24 shows, by states, the distribution of establishments in the silk-manufactures industry reporting contract work. Of the 1,369 establishments in the industry in 1919, 138 dyed, finished, or printed their own goods; 7 did dyeing, finishing, or printing for others; 146 did their own throwing; and 500 did custom weaving, warping, quilling, or throwing.

TABLE 24.—CONTRACT WORK.

	Es	TABLISHM	ENTS EN	GAGED IN	[—	·	ES	Tablishm	ents en	GAGED I	N
STATE.	Silk	Dyeing, ing, print	or	Throw- ing for own	Doing custom weaving, warping,	STATE.	Slik	Dyeing, ing, print	Ol.		Doing custom weaving, warping, quilling,
	manu- factures.	Their own goods.	For others.	con- sump- tion,	warping, quilling, or throw- ing.		manu- factures.	Their own goods.	For others.	con- sump- tion.	quilling, or throw- ing.
United States	1,369	138	7	146	500	New Hampshire	2 686	1 56	2	27	. 1 269
California. Connecticut Delaware.	1 41	1 16	2	1 18	i3	Now Jersey New York North Carolina Ohio	181	27	3	28 2	. 3
Georgia. Illinois.	1			i	1 1	Pennsylvania. Rhode Island.	373 30	25 2		49	163
Maine. Maryland. Massachusetts. Michigan	21	1 1 6 2		1 2 9 2	1 3 2 2	Tennessee Virginia. West Virginia.	1 2			1 1	

Active silk spindles in the industry.—The progress of the industry is to some extent reflected by the increase or decrease in the number of machines com- in the industry for 1919, 1914, and 1909.

mon to the silk industry. Table 25 gives the number of active spindles reported by establishments engaged

TABLE 25 .- ACTIVE SILK SPINDLES IN THE INDUSTRY: 1919, 1914, AND 1909.

	1919	1914	914 1909	PER CENT OF INCREASE,				1919	1914	1909		CENT (
				1909- 1919	1914- 1919	1909- 1914				2000	1909- 1919	1914~ 1919	1909- 1914
Producing spindles In plants doing throw-	′ ′	2,159,271	1,761,758	51.5	23.6	22.6	In plants doing throw-	896,888	710,102	624,711	43.6	26.0	13.7
ing, winding, and spinning, only In other silk mills	1,742,465 926,994	1,289,163 870,108	1,089,110 672,648	60.0 37.8	35. 2 6. 5	18.4 29.4	ing, winding, and spinning, only In other silk mills	560,798 336,090	407,616 302,486	318,792 305,919	75. 9 9. 9	37.6 11.1	27.9 -1.1

1 A minus sign (-) denotes decrease.

number of active producing and winding spindles for | plant, in 1919 and 1914.

Active silk spindles, by states.—Table 26 gives the | the industry, distributed by states, and character of

TABLE 26.—ACTIVE SILK SPINDLES IN THE INDUSTRY, BY STATES: 1919 AND 1914.

			A STATE OF THE STA	Contact of Might produce the Contact of Cont	PRODUCI	ng spindles					WIND	ING SPINDL	ES.
STATE.	Census year.		Aggregate.	·	In plants d	oing throwing, etc., only.	g, wind-	In o	her sllk mi	11s.		In plants doing	In other
	year.	Total.	Spinning and twisting.	Spinning only (spun silk).	Total.	Spinning and twisting.	Spinning only (spun silk).	Total.	Spinning and twisting.	Spinning only (spun silk).	Total.	throwing, winding, etc., only.	silk mills.
United States	1919 1914	2,669,459 2,159,271	2, 482, 153 2, 057, 889	187,306 101,382	1,742,465 1,289,163	1,637,646 1,247,967	104,810 41,196	926, 994 870, 108	844, 507 809, 922	82,487 60,186	896,888 710,102	560,798 407,616	336, 090 3 02 , 486
California	1919 1914	2, 168 2, 168	2, 168 2, 168					2,168 2,168	2, 168 2, 168		1,176 1,176		1,176 1,176
Connecticut	1919 1914	138, 189 141, 712	111, 914 95, 864	26,275 45,848	20,048 28,936	20,048 28,936		118, 141 112, 776	91,866 66,928	26, 275 45, 848	33, 835 39, 564	4, 882 9, 858	28,953 29,706
Georgia	1919 1914	23,528 17,136	23, 528 17, 136		23,528 17,136						5,754 1,766	5,754 1,766	
Illinois	1919 1914	21,416 7,500	21, 416 7, 500		21,416 7,500	21,416 7,500					41,762 25,000	40,762 25,000	1,000
Maine	1919 1914	4,136 4,970	4, 136 4, 970		400	400		3,736 4,970	8,736 4,970		736 31 0	200	536 310
Maryland	1919 1914	30,346 19,060	30, 346 19, 060		26,786 17,340	26,786 17,340		3,560 1,720	3,560 1,720		11,644 9,660	9,720 8,520	1,924 1,140
Massachusetts	1919 1914	152,658 122,156	111,938 110,356	40,720 11,800	34,290 11,404	5,312 6,132	28,984 5,272	118, 362 110, 752	106, 626 104, 224	11,736 6,528	19,826 17,530	2,864 2,540	16,962 14,990
Michigan	1919 1914	16, 262 17, 204	16, 262 17, 204					16, 262 17, 204	16,262 17,204		5,930 10,696		5,936 10,696
New Hampshire	1919 1914	3,700 3,700	3,700 3,700		3,700 3,700	3,700 3,700					928 928	928 928	
New Jersey	1919 1914	284,121 213,827	272, 121 213, 327	12,000	182,673 128,608	182,673 128,608		101, 448 84, 719	89,448 84,719	12,000	168, 299 155, 968	99, 234 63, 514	69,065 92,454
New York	1919 1914	263,049 164,620	244,377 141,066	18,672 23,554	210,979 141,518	192,307 125,054	18,672 16,464	52,070 23,102	52,070 16,012	7,000	88, 199 52, 367	63, 878 39, 497	24,321 12,870
North Carolina	1919 1914	49,318 39,842	49, 318 30, 842		2,776 2,600	2,776 2,600		46,542 37,242	46,542 37,242		18, 168 20, 748	7,092 18,600	11,076 7,088
Ohio	1919 1914										2,960 2,960		2,960 2,960
Pennsylvania	1919 1914	1,610,086 1,350,079	1,541,210 1,348,679	68,876 1,400	1,159,781 875,344	1,123,381 873,944	36,400 1,400	450,305 474,735	417, 829 474, 735	32, 476	472, 883 362, 455	306,902 234,139	165, 981 128, 316
Rhode Island	1919 1914	40,303 18,780	19,540	20,763 18,780	25,903 18,060	5,140	20,763 18,060	14, 400 720		720	6,160 1,200	480	6, 160 780
Tennessee	1919 1914	4,000	4,000		4,000	4,000				l i	3,580		
Virginia	1919 1914	21, 179 36, 567	21, 179 36, 567		21, 179 36, 567	21,179 36,567	(10,042 6,754	10,002 6,754	40
West Virginia	1919 1914	5,000 450	5,000 450		5,000 450	5,000 450				• • • • • • • •	5,000 960	5,000 960	

number of idle spindles for the silk-manufactures | tributed according to states.

Idle silk spindles in the industry, by states.—The | industry is shown for the year 1919 in Table 27, dis-

TABLE 27.—IDLE SILK SPINDLES IN THE INDUSTRY, BY STATES: 1919.

				PRODU	JCING SPIND	Les.				WIN	DING BPINDL	es.
STATE,		Aggregate.		In plan wind	ts doing thr ling, etc., or	owing, ily.	In	other silk m	ills.		In plants doing	In
	Total.	Spinning and twisting.	Spinning only (spun silk).	Total.	Spinning and twisting.	Spinning only (spun silk).	Total.	Spinning and twisting.	Spinning only (spun stik).	Total.	throwing, winding, etc., only.	other silk mills.
United States	68,363	50,714	17,649	37, 803	36,663	1,140	30,560	14,051	16,509	26,554	15,293	11,26
Connecticut Illinois	13,455 216	2,354 216	11,101	916 216	916 216		12,539	1,438	11,101	1,692 412	400 412	1,299
Massachusetts. Michigan New Jersey	1,814 1,954 0,932	1,814 1,954 4,932	5,000	90 2,468	2,468		1,724 1,954 7,464	1,724 1,954 2,464	5,000	840 3,640 6,347	3,489	840 3,640 2,858
New York Pennsylvania Tennessee	4,974 4,134 840 25,703 24,995 708			1,054 22,744	214 22, 444	840 300	3,920 2,959	3,920 2,551	408	2,355 10,608 660	561 9,771 660	1,794 837
Virginia	10,315	10,815		10,315	10,315							

Establishments engaged in throwing silk, by states.— Table 28 shows, by states, the number of establishments engaged in the throwing of silk, classified according to the number of spinning and twisting spindles reported, for 1919 and 1914.

Table 28.—ESTABLISHMENTS ENGAGED IN THROWING SILK, CLASSIFIED ACCORDING TO NUMBER OF SPINDLES 1919 AND 1914.

		NU	MBER	OF ES	rablisi	IMENT	s.				או	MBER	OF ES	TABLIS	HMENT	s.	
				Б	laving-	-		Total					Ha	ving—			Total
STATE.	Cen- sus year,	Total.	Less than 2,500 spin- dles.	but less than	but	but less than	15,000 spin- dles or over.	number of spindles.	STATE.	Cen- sus year.	Total.	Less than 2,500 spin- dles.	less than	5,000 spin- dles but less than 10,000.	but less than	dles	number of spindles,1
United States	1919 1914	347 243	130 88	67 41	67 47	33 26	50 41	2, 532, 867 2, 057, 889	New Hampshire	1919 1914	1 1		1				3,700 3,700
California	1919 1914	1	1 1					2,168 2,168	New Jersey	1919 1914	68 52	36 30	14 7	10 10	8 2	5 3	277,053 213,827
Connecticut	1919 1914	26 24	15 13	4	4 5	2 1	1	114, 268 95, 864	New York	1919 1914	49 25	28 11	2 6	9 2	3 3	7 3	248,511 141,066
Georgia	1919 1914	1					1	23, 528 17, 136	North Carolina	1919 1914	8 3	•••••	1 1			2 2	49,318 39,842
Illinois	1919 1914	1 1			····i		1	21, 632 7, 500	Pennsylvania	1919 1914	169 115	40 23	38 19	40 28	22 17	29 28	1,566,205 1,348,679
Maine	1919 1914	2 1	1	1				4, 136 4, 970	Rhode Island	1919 1914	3		1	1	1		19,540
Maryland	1919 1914	5 4	2 3	2		ļ	1 1	30, 346 19, 060	Tonnessee	1919 1914	1		1				4,000
Massachusetts	1919 1914	9 8	4 4	1	1	1 2	2	113, 752 110, 356	Virginia	1919 1914	5 4	3 2		1		1	31,494 36,567
Michigan	1919 1914	2 2		1 1		1		18, 216 17, 204	West Virginia	1919 1914	1 1	i		1			5,000 450

¹ Does not include the 204,955 spindles in 1919 and 101,382 in 1914 used in connection with the manufacture of spun-silk yarn.

Active looms in the industry.—Statistics for 1919 | presented in Table 29 for the census years from 1904 connected with the silk-manufactures industry are census to census.

relating to the number of active looms in each state | to 1919 inclusive, with percentage of increase from

TABLE 29.—ACTIVE LOOMS IN THE INDUSTRY: 1919.

STATE AND CLASS.	1919	1914	1909	1904		R CENT		STATE AND CLASS.	1010	1014	1000	1001		CENT CREASE	
STATE AND CLASS.	1010	1011	1000	1004	1914- 1919	1909- 1914	1904- 1909		1919	1914	1909	1904	1914- 1919	1909- 1914	1904- 1909
United States On broad silks (including velvets) On ribbons	87,215	85,058 73,504 11,554	75,406 64,836 10,570	60,058 50,449 9,609	13.4 18.7 -20.2	12. 8 13. 4 9. 3	25.6 28.5 10.0	New York. On broad silks. On ribbons.	1,248	7,862 5,981 1,881	7,575 5,375 2,200	6,989 4,761 2,228	-6.0 2.7 -33.7	3.8 11.3 14.5	8. 4 12, 9 1, 3
ConnecticutOn broad silksOn ribbons	5,141 4,974 167	5,536 5,213 323	5,008 4,477 529	4,260 3,500 760	-7.1 -4.6 -48.3	10. 6 16. 4 -38. 9	17.5 27.9 30.4	Pennsylvania On broad silks On ribbons.		33,694 29,302 4,392	26,249 23,031 3,218	19,336 16,999 2,337	11.2 15.5 -17.4	28. 4 27. 2 36. 5	35. 8 35. 5 37. 7
Massachusetts On broad silks On ribbons	3,218	3,279 3,267 12	2,717 2,708 9	1,610 1,466 144	$-1.9 \\ -1.5$	20, 7 20, 6	68, 8 84. 7 -93. 8	Rhode Island. On broad silks All other states	5,240 3,284	3,045 3,045 3,861	2,511 2,511 2,433	1,706 1,706 2,222	72. 1 72. 1 -14. 9 -14. 9	21, 3 21, 3 58. 7	47. 2 47. 2 9. 5
New Jersey On broad silks On ribbons	34,681 30,683 3,998	27,781 23,049 4,732	28, 915 24, 423 4, 492	23,935 19,917 4,018	24.8 33.1 -15.5	-3, 9 -5, 6 5, 3	20.8 22.6 11.8	On broad silks On ribbons	3,103 181	3,861 3,647 214	2,433 2,311 122	2,100 122	-14.9 -15.4	57.8 75.4	10.0

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

Active looms in the industry, by states.—Table 30 | which were in operation during 1919 and 1914 for the gives the number of looms and Jacquard attachments | principal states in the industry.

TABLE 30.—ACTIVE LOOMS IN THE INDUSTRY, BY STATES: 1919 AND 1914.

			-	LOOM	8,1								1.001	MS.1			
STATE.	Cen-			than velv ribbon.	et and			Jac- quard	STATE.	Cen-		Other t	han vel ribbon.	vet and			Jac- quard ma-
	year.	Total.	Total.	Over 40-inch reed space.	40-inch or un- der reed space.	Vel- vet.	Rib- bon.	chines.	,	year.	Total.	Total.	40-inch	40-inch or un- der reed space.	Vel- vet.	Rib- bon.	chines
United States.	1919 1914	96, 438 85, 058	85, 071 70, 980	69, 600 44, 549	15, 471 26, 431	2, 144 2, 524	9, 223 11, 554	7, 324 6, 826	New Jersey	1919 1914	34, 681 27, 781	30, 643 22, 873	24, 953 13, 953	5,690 8,920	40 176	3, 998 4, 732	4,285 4,563
Connecticut	1919 1914	5, 141 5, 536	3,082 3,137	2,393 2,473	689 664	1,892 2,076	167 323	155 308	New York	1919 1914	7,392 7,862	6, 114 5, 919	4,748 3,835	1,366 2,584	30 62	1, 248 1, 881	1,240 697
Delaware	1919 1914	106 138	87 102	87 102			19 36		North Carolina	1919 1914	287 516	287 516	205 205	82 311	•••••		
Illinois	1919	56	56	6	50				Ohio	1919 1914	449 449	449 449	293 293	156 156			
Maine	1919 1914	117 126	117 126	86 56	31 70				Pennsylvania	1919 1914	37, 482 33, 694	33, 671 29, 092	27,408 17,541	6,263 11,551	182 210	3,629 4,392	1,124 939
Maryland	1919 1914	162 124					162 124		Rhode Island	1919	5,240 3,045	5, 240	4,679	561 176		1,002	240
Massachusetts	1919 1914	3,218 3,279	3,218 3,267	2,766 1,945	$^{452}_{1,322}$		12	190 152	Virginia	1914 1919	538	3,045 538	2,869 465	78			50
Michigan	1919 1914	577 766	577 766	577 756	10		•••••			1014	652	598	190	408		54	125
New Hampshire	1919 1914	992 1,090	992 1,090	934 831	58 259			40 40									

1 With or without Jacquard attachments.

Idle looms in the industry, by states.—Table 31 is the complement of the preceding table, except for the 1914 figures which are not available as idle looms for

this industry were not reported prior to the census of 1919.

TABLE 31.—IDLE LOOMS IN THE INDUSTRY, BY STATES: 1919.

			LOOM	3,1							LOOMS	.1			
STATE.		Other t	han velv ribbon.				Jac- quard	STATE.			than velv ribbon.	et and			Jac- quard
CIAID,	Total.	Total.	Over 40-inch reed space.	40-inch or under reed space.	Vel- vet.	Rib- bon.	ma- chines.	OLALE.	Total.	Total.	Over 40-inch reed space.	40-inch or under reed space,	Velvet.	Rib- bon.	ma- chines.
United States	10, 388	7, 829	5, 668	2,161	61	2,498	1,522	MichiganNew Jorsey	179 3,654	179	179	818		817	864
Connecticut Delaware Maine	1 32	189 15 25	89 15	100	27	103 17	45	New York North Carolina Pennsylvania	1,331 229	2,837 836 229 2,162	2,019 527 1,675	309 229 487	32	463	64
Maryland Massachusetts	25 25 25				14	2	Rhode IslandVirginia	3, 248 880 292	2,162 880 202	880 121	171			150	

1 With or without Jacquard attachments.

GENERAL TABLES.

Comparative summary, by states.—Table 32 gives | by states, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, pri- detail for the industry as a whole, by states.

mary horsepower, wages, cost of materials, and value of products. Table 33 presents for 1919, statistics in

TABLE 32.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

STATE.	Cen-	Num- ber of estab- lish-	Wage earners (aver- age	Primary horse-	Wages.	Cost of mate- rials.	Value of products.	STATE.	Cen-	Num- ber of estab- lish-	Wage earners (aver- age	Primary horse-	Wages.	Cost of mate- rials.	Value of prod- uets.
	year.	ments.	num- ber).	power.	Expres	sed in tho	usands.		year.	ments.	age num- ber).	power.	Expres	sed in the	ousands.
United States	1919 1914 1909	1, 369 902 852	126,782 108,170 99,037	176,825 116,924 97,947	\$108, 226 47, 108 38, 570	\$388, 469 144, 442 107, 767	\$688,470 254,011 196,912	New York	1919 1914 1909	181 143 170	13, 342 11, 659 12, 903	25, 232 14, 707 11, 110	\$11,758 4,967 5,385	\$46,391 16,736 13,949	\$81,683 29,261 26,519
Connecticut,	1919 1914 1909	41 44 47	11, 254 10, 668 8, 703	18,357 11,160 8,564	11,523 5,606 3,749	37, 526 18, 400 11, 834	68,053 30,592 21,063	Pennsylvania	1919 1914 1909	373 284 226	53, 052 44, 755 36, 469	73, 826 48, 915 41, 962	38, 129 16, 312 11, 443	126, 287 48, 795 35, 166	231, 711 86, 939 62, 061
Maryland	1919 1914 1909	6 5 4	839 874 655	1,505 1,012 915	456 283 160	708 424 237	1,534 911 512	Rhode Island	1919 1914 1909	30 12 13	4, 150 2, 325 1, 685	7, 224 3, 509 2, 318	4, 161 1, 192 788	16, 815 5, 327 3, 188	27, 219 7, 664 4, 584
Massachusetts	1919 1914 1909	21 19 19	5, 697 4, 495 4, 109	9,811 6,635 5,305	5,040 2,092 1,840	19, 243 5, 961 5, 430	34, 194 10, 677 8, 942	Virginia	1919 1914 1909	10 9 7	661 691 819	1, 811 1, 798 1, 858	367 210 261	609 1,094 1,011	1,551 1,773 1,544
New Jersey	1919 1914 1909	686 368 348	32, 320 28, 263 30, 285	29,095 21,218 22,376	32, 832 14, 800 13, 917	123, 441 40, 883 33, 265	215,051 75,706 65,430	All other states	1919 1914 1909	21 18 18	5, 461 4, 440 3, 409	9, 964 7, 970 3, 539	3, 960 1, 646 1, 027	17, 449 6, 816 3, 687	27, 474 10, 488 6, 257

TABLE 33.—DETAILED STATEMENT, BY STATES: 1919.

				PERSC	ns en	GAGED	IN TH	E INDUSTI	RY.			WAC NEAR	DE EARN EST REP	ERS DE RESENTA	c, 15,	OR DAY,				EXPEN	ES.
	Num- ber of		Pro-	Sala- ried offi-	Clerk	s, etc.		Wage	earne	rs.			16 and	l over.	Und	or 16.			Sala	ries and	l wages.
STATE.	estab- lish- ments	Total.	prie- tors and firm	cers, super- in- tend-			Aver-	Num	ber, 18	ith da	ay of—	Total.					Ca	pital.			
Name (and on the Park of Park			mem- bers.	ents and man- agers.	Male.	Fe- male.	age num- ber.	Maxin mon			nimum onth.		Male.	Fe- male.	Male.	Fe- male	3.		om	cials.	Clerks, etc.
United States	1,369	136,775	1,011	3, 651	3,027	2, 301	126, 782	De 13	7, 239	Fe	118, 201	137, 716	52, 404	78, 160	2,368	4,784		ollars. 732, 163			Dollars. , 580, 473
Connecticut. Maryland Massachusetts Now Jorsey New York		12, 169 869 6, 141 35, 453 14, 693	16 2 14 682 140	345 21 139 1,106 433	303 178 742 493	251 7 113 597 285	11, 254 839 5, 697 32, 320 13, 342	De i	1,813 981 3,777 5,064 4,534	Ja Fe Fe Fo Mh	10,147 768 4,618 28,628 12,652	11, 687 978 6, 813 35, 074 14, 404	6, 495 316 2, 518 16, 177 5, 661	4,799 602 3,880 17,920 8,526	146 37 131 312 70	247 23 284 665 147	26, 101,	837, 589 145, 185 614, 191 180, 821 550, 489	57 5, 29		, 527, 293 5, 655 560, 575 , 247, 563 , 374, 709
Pennsylvania. Rhode Island Virginia. All other states 1	20	56,578 4,346 717 5,809	142 11 3 1	1,363 84 34 126	1, 118 42 7 144	903 59 12 77	53, 052 4, 15(661 5, 461	De De	7, 342 4, 330 732	Ja Oc Je	50, 128 3, 998 591	57, 949 4, 348 713 5, 750	17,200 1,913 237 1,887	36, 406 2, 201 428 3, 398	1,487 66 20 99	2, 856 168 28 366	3 [[:	828, 505 200, 627 869, 111 705, 645	. 11 6	3, 240 3, 034 5, 001 8, 484	, 283, 338 196, 197 28, 023 357, 120
			* .	EXPE	nses—	contin	ued.										PC	WER.			
		es and —Con.		I	tent ar	ıd taxe	s.	For ma	terials				\$ f = 1		I	rima		sepowe	r.		Elec- tric
STATE.		age	For contract work,	Re	ent of tory.	Taxo Fede stat coun and loca	ral, e, 1 ty, 1	Principal naterials.	Fuel ren pov	t of	Value produc	of ad	Value Ided by anufac- ture,	Total	eng (r	ot ir-	Own Steam tur- bines,	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er.2	Rent- ed. ³	horse- power gener- ated in estab- lish- ments report- ing,
United States.	. 108, 22		Dollaтs, 3, 146, 20		llars. 2, 226	Dolla 17, 612,	294 38	Dollars. 2, 267, 575	Doll 6, 201	lars. , 447	Dollar 688, 469,		001lars. , 000, 501	176, 82	5 75,	595	12, 626	1, 966	8, 327	78, 311	32,748
Connecticut Maryland Massachusetts New Jersey New York	5, 02 32, 83 11, 78	56, 115 39, 601 32, 211 57, 847	1, 144, 10 5, 54 1, 370, 67 7, 988, 47 4, 980, 39	$egin{array}{c c} 4 & & 1 \\ 4 & & 1 \\ 0 & 1.48 \end{array}$	9, 877 455 5, 689 33, 315 96, 620	2, 871, 24, 797, 3, 726, 2, 309,	315 3 346 824 1 895 12 123 4	6, 641, 924 665, 294 9, 000, 721 2, 356, 778 5, 667, 918	242 1. 084	, 945 , 507 , 702 , 470 , 832	68, 053, 1, 534, 31, 193, 215, 050, 81, 682,	951 14 560 91	, 527, 560 826, 417 , 950, 468 , 609, 312 , 291, 822	18, 35 1, 50 9, 81 29, 09 25, 23	5 1 2, 5 11.	535 . 469 .	4,792 1,120 1,465	1	1,844 1,719 417 1,085	6, 311 970 4, 933 15, 399 14, 268	4, 923 1, 459 3, 738 6, 386
Pennsylvania Rhode Island Virginia Ali other states 1	. 36	29, 477 30, 940 37, 354 59, 738	5,608,27 1,170,79 46,27 831,67	4 8	82,728 81,310 6,200 86,032	4, 826, 1, 721, 20, 1, 314,	395 12 123 1 875 398 1	3, 623, 779 6, 582, 722 577, 290 7, 201, 149	282	, 464 , 151 , 447 , 869	231, 711, 27, 219, 1, 550, 27, 473,	712	, 424, 109 , 404, 365 941, 975 , 024, 473	73, 82 7, 22 1, 81 9, 96	4 2,	506 040 810 076	2, 122 2, 650 477	482	875 400 525 1,432	30, 841 2, 134 476 2, 979	9,005 4,464 425 2,318
All other states e	mbrac	e: Califo	rnia. 1 es	tablis	hment	: Delay	vara 1.	Georgia 1	· Illuni	ofe 4.	Maine 2	Michia	O. N.	re Trans		O. N.			2. Obi	4.00	

¹ All other states embrace: California, 1 establishment; Delaware, 1; Georgia, 1; Illnois, 4; Maine, 3; Michigan, 2; New Hampshire, 2; North Carolina, 3; Ohio, 1; Tennessee, 2; and West Virginia, 1.

2 Includes water wheels, turbines, and motors (irrespective of ownership of water supply).

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

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 recovering wool from rags, tailors' clippings, and mill waste, commonly known as shoddy, represent processes in the manufacture of wool materials, 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 in horsepower of 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.

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

						I	ER CENT	OF INCREAS	SE.1
	1919	1914	1909	1904	1899	1914- 1919	1909 1914	1904- 1909	1899- 1904
Number of establishments Persons engaged Proprietors and firm members Salariod employees Wage earners (average number)	1,016	979	1,124	1,213	1,414	3, 8	-12, 9	-7, 3	-14.2
	208,225	203,716	209,882	180,699	164,713	2, 2	-2, 9	12, 4	13.3
	488	578	866	1,107	1,110	-15, 6	-33, 3	-21, 8	-0.3
	11,333	7,853	6,987	5,616	4,495	44, 3	12, 4	24, 4	24.9
	196,404	195,285	202,029	179,976	150,108	0, 6	-3, 3	12, 3	13.1
Primary horsepower	525,757	442,330	400, 7 6 2	322,914	271,565	18.9	10.4	24, 1	18.9
	\$980,746,958	\$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	108,009,668	100, 268, 868	78,974,860	64, 389, 312	119. 2	7.7	27. 0	22. 7
	38,187,133	14,651,788	12, 306, 199	8,177,345	6, 455, 495	160. 6	19.1	50. 5	26. 7
	198,586,069	93,357,880	87, 962, 669	70,797,524	57, 933, 817	112. 7	6.1	24. 2	22. 2
Paid for contract work. Rent and taxes. Cost of materials. Value of products. Value added by manufacture ³ .	59, 758, 733 759, 193, 319	2,456,260 3,922,866 298,063,498 464,249,813 166,186,315	3,629,257 2,925,922 322,441,043 507,166,710 184,725,667	1,220,708 2,357,150 242,561,096 380,934,003 138,372,907	1,749,222 2,007,374 181,159,127 296,990,484 115,831,357	270. 3 1,423. 3 154. 7 165. 9 186. 1	-32.3 34.1 -7.6 -8.5 -10.0	197. 3 24. 1 32. 9 33. 1 33. 5	-30, 2 17, 4 33, 9 28, 3 19, 5

¹ A minus sign (—) denotes decrease.

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

•	Total for			industry.			PER		TOTAL CO	ONTRIBUT	ED
	wool manufac- tures.	Woolen goods.	Worsted goods.	Carpets and rugs.	Felt goods.	Wool-felt hats.	Woolen 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. Proprietors and firm members. Salarled employees. Wage earners (average number)	208, 225 488 11, 333 196, 404	67,020 258 3,805 62,957	109,372 129 5,413 103,830	1,268	5,934 8 690 5,236	1,648 43 157 1,448	32. 2 52. 9 33. 6 32. 1	52. 5 26. 4 47. 8 52. 9	11.6 10.2 11.2 11.7	2.8 1.6 6.1 2.7	0.8 8.8 1.4 0.7
Primary horsepower	525,757 \$989,746,958	172,947 \$273,973,670	295,533 \$557,721,078	38,170 \$119,196,461	16,411 \$35,024,373	2,696 \$3,831,376	32.9 27.7	56. 2 56. 3	7.3 12.0	3.1 3.5	0.5 0.4
Salaries and wages Salaries Wages	236,773,202 38,187,133 198,586,069	79,736,922 13,141,096 66,595,826	119,353,515 17,840,660 101,512,855	4,749,784	6,970,832 2,097,342 4,873,490	1,746,028 358,251 1,387,777	33.7 34.4 33.5	50. 4 46. 7 51. 1	12. 2 12. 4 12. 2	2. 9 5. 5 2. 5	0.7 0.9 0.7
Paid for contract work. Rent and taxes. Cost of materials. Value of products. Value added by manufacture	9,316,229 59,758,733 759,193,819 1,234,657,092 475,463,778	1, 198, 862 16, 791, 225 217, 965, 333 364, 896, 590 146, 931, 257	8, 013, 960 37, 218, 556 447, 629, 350 700, 537, 482 252, 908, 132	3, 984, 671 67, 118, 039	9,009 1,656,453 22,780,775 39,229,540 16,448,765	7,682 107,828 3,699,822 6,739,652 3,039,830	12. 9 28. 1 28. 7 29. 6 30. 9	86. 0 62. 3 59. 0 56. 7 53. 2	0. 9 6. 7 8. 8 10. 0 11. 8	0.1 2.8 3.0 3.2 3.5	0.1 0.2 0.5 0.5 0.6

¹ Value of products less cost of materials.

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

	ments.		AGE NERS.		VALU	E OF UCTS,		VALUE MANUE				ments.		AGE RNERS.			JE OF UCTS.		VALUE A MANUF		
STATE,	Number of establishments.	A verage number.	Per cent distribution.	Rank.	Amount(expressed in thousands).	Per cent distribution;"	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	STATE.	Number of establishm	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	106, 404			\$1,234,657			\$475, 464		1	Wisconsin 5	24	1,070	0. 5 0. 2	12	\$ 5, 495	0.4	11	\$2,157	0.5	11
Massachusetts ¹ Pennsylvania Rhode Island ² New Jersey ³ New York	207 250 88 35 68	58, 084 30, 936 24, 393 14, 782 18, 800	29.6 15.8 12.4 7.5 9.6	1 2 3 5 4	366, 506 217, 598 175, 312 102, 302 100, 402	17.6 14.2 8.3	4	58,398 46,603	16.2 12.3	4	Michigan ² Indiana Tennessee Oregon ²	4 9 11 13 5	1,070 482 812 948 1,366	0. 2 0. 4 0. 5 0. 7 0. 4	12 13 15 14 11 16	\$5,495 2,708 4,572 4,542 4,242 3,357	0.4 0.2 0.4 0.4 0.3 0.3	14	\$2,157 1,003 1,691 1,222 2,010 1,410	0. 2 0. 4 0. 2 0. 4 0. 3	11 12 14 20 13 16
Maine 1	66 47 44 10 18	9, 913 8, 132 9, 772 786	5.0 4.1 5.0 0.4 1.5	7 6 8 9 10	60, 327 53, 814 45, 944 3, 386 17, 426	4. 9 4. 4 3. 7 0. 3 1. 4	7 8 9	24, 101 20, 606 19, 465 1, 358	5, 1 4, 3 4, 1 0, 3	6 7 8 9	Kentucky Georgia ¹ Minnesota ² . West Virginia Virginia. All other states ⁶	10 3 11 7 12 65	565 595 574 542 630 9,383	0.3 0.3 0.3 0.3 4.8	17 19 23 18	3, 247 2, 703 2, 864 2, 779 2, 693 52, 438	0.3 0.2 0.2 0.2 0.2 4.2	17 18 20 21 22	1,298 1,037 1,084 1,087 1,155 22,557	0.3 0.2 0.2 0.2 0.2 4.7	18 19 22 23 21

² Exclusive of internal revenue.

² Value of products less cost of materials.

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.

⁵Excludes statistics for 3 establishments to avoid disclosing individual opera-

tions.

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

WOOL MANUFACTURES.

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

	Cen-			Fe-	PER (Cen-	(Poto)	Mala	Fe-	PER C	ENT
INDUSTRY AND CLASS.	sus year.	Total.	Male.	made.	Male.	Fe- male.	INDUSTRY AND CLASS.	sus year.	Total.	Male.	maie.	Male.	Fe- male
Wool Manufactures	1919 1914 1909	208, 225 203, 716 209, 882	121, 452 117, 643 120, 032	86,773 86,073 89,850	58.3 57.7 57.2	41.7 42.3 42.8	CARPETS AND RUGS	1919 1914 1909	24, 251 33, 101 34, 706	15,084 19,976 20,725	9,167 13,125 13,981	62, 2 60, 3 59, 7	37. 8 39. 7 40. 3
Proprietors and officials	1919 1914	5,640 3,168	5,452 3,119	188	96. 7 98. 5	3.3	Proprietors and officials	1919 1914 1909	494 444 448	486 439 444	8 5 4	98. 4 98. 9 99. 1	1, 6 1, 1 0, 9
Proprietors and firm members	1909 1919 1914	3,640 488 578	3,583 466 551	49 57 22 27	98. 4 95. 5 95. 3	1, 6 4, 5 4, 7	Proprietors and firm members.		50 72 134	49 71 134	1 1	98. 0 98. 6 100. 0	2.0
Salaried officers of corporations.	1909 1919 1914	866 1,478 940	835 1,430 927	31 48 13	96. 4 96. 8 98. 6	3. 6 3. 2 1, 4 1, 2	Salaried officers of corporations.		136 130 115	133 128 113	3 2 2 4	97. 8 98. 5 98. 3	2. 2 1. 5 1. 7
Superintendents and managers.	1909 1919 1914 1909	897 3,674 1,650 1,877	886 3,556 1,641 1,862	11 118 9 15	98. 8 96. 8 99. 5 99. 2	3, 2 0, 5 0, 8	Superintendents and managers		303 242 199	304 240 197	. 4	98. 7 99. 2 99. 0	1.3
Clerks and other subordinate salaried employees.	1919 1914 1909	6, 181 5, 263 4, 213	3,826 4,013 3,271	2,355 1,250 942	61. 9 76. 2 77. 6	38, 1 23, 8 22, 4	Clerks and other subordinate sal- aried employees.	1919 1914 1909	\$24 1,348 951	566 1,124 801	258 224 150	68.7 83.4 84.2	16.6
Wage earners (average number)	1919 1914	196, 404 195, 285	112,174 110,511	84, 230 84, 774	57. 1 56. 6	42, 9 43, 4	Wage earners (average number)	1919 1914 1909	22,933 31,309 33,307	14,032 18,413 19,480	8,901 12,896 13,827	61. 2 58. 8 58. 5	41.2
16 years of age and over	1977	202,029 189,077 188,408	113,178 108,965 107,469	88,851 80,112 80,939	56.0 57.6 57.0	44, 0 42, 4 43, 0	16 years of age and over		22,838 30,661 31,956	13,740 18,063 18,720	8, 598 12, 598 13, 236	61. 5 58. 9 58. 6	38. 5 41. 1
Under 16 years of age	1909 1919 1914 1909	191, 102 7, 327 6, 877 10, 927	108, 123 3, 209 8, 042 5, 055	82,979 4,118 3,835 5,872	56. 6 43. 8 44. 2 46. 3	43. 4 56. 2 55. 8 53. 7	Under 16 years of age		505 648 1,351	202 350 760	303 298 591	49. 1 54. 0 56. 3	50.9 46.0
Woolen goods	. 1919 1914 1909	67,020 51,631 54,771	45, 272 35, 226 35, 815	21,748 16,405 18,956	67. 5 68. 2 65. 4	32. 5 31. 8 34. 6	FELT GOODS	1919 1914 1909	5,934 4,553 3,856	4,494 3,564 3,076	1,440 989 780	75. 7 78. 3 79. 8	21.7
Proprietors and officials	. 1919 1014	2,487 1,338	2,385 1,313	102 25	95. 9 98. 1 98. 2	4.1 1.9 1.8	Proprietors and officials	1919 1914	206 154	200 151	0 3	97. 1 98. 1	1, 1
Proprietors and firm members.	1914	1,542 258 316	1,514 243 298 457	102 25 28 15 18 23 21	94. 2 94. 3 95, 2	5.8 5.7 4.8	Proprietors and firm members.	1909 1919 1914	134 8 11	132 8 11	2	08. 6 100. 0]
Salaried officers of corporations	TATE	480 729 397 406	708 393 402	21 4 4	97. 1 99. 0 99. 0	2.9 1.0	Salaried officers of corporations	1909 1919 1914	19 88 68	18 82 65	1 6 3	94. 7 93. 2 95. 0	2 6.8 3 4.4
Superintendents and managers	1909 1919 1014 1909	1,500 625 656	1,434 622 655	66 3 1	95.6 99.5 99.8	4.4 0.5 0.2	Superintendents and managers	1909 1919 1914 1909	55 110 75 60	55 110 75 59	i	. 100.0 100.0 100.0 98.5	3
Clerks and other subordinate sal- aried employees.	1919 1914 1909	1,128	8 94 796 802	682 332 247	56.7 70.6 76.5	43. 3 29. 4 23. 5	Clerks and other subordinate sal		492 364	242 271 137	250 93 41	74,	2 50. 5 25.
Wage earners (average number)	1914	49, 165	41,993 33,117	20,964 16,048	66.7 67.4 64,2	33. 3 32. 6 35. 8	Wage earners (average number)	- 1919 1914 1909	5, 236	4,052 3,142 2,807	1,184 803 737		9 22.
16 years of age and over	1914	62,013 48,328	33,499 41,489 32,659	18,681 20,524 15,660	66, 9	33. 1 32. 4	16 years of age and over		5, 195 4, 023	4,025 3,134 2,789	1,170 889 728	77. 79.	9 22. 3 20.
Under 16 years of age	1909 1919 1914 1909	944	504 458	379	54.7	46. 6 45. 3			41 12	27 8 18		86,	9 34. 7 33.
Worsted GOODS	1916	1 113,059	57,894	53,980 55,165 55,564	50.7 51.2 51.4	49. 3 48. 8 48. 6		- 1919 1914 1909	1,372	1,190 983 1,558	389	71.	6 28.
Proprietors and officials		2,348	2,282	66	97.5	2.8		1919	83	99 80	6 3 3	96.	4 3.
Proprietors and firm members	1909	1,431	1,411	20	98.0	3 L.4	Proprietors and firm members	1914	43 38	41 36	1 2	95.	3 4. 7 5.
Salaried officers of corporation	190	9 197	7 191 7 489	18	97.	3.6	Salaried officers of corporation	1914	18	18	·i	100.	3 6.
Superintendents and manage	190	9 30 9 1,71 4 67	304 2 1,668 674	44	98. 97. 99.	1.6 1 2.6 4 0.6	Superintendents and manager	1909 1919 1914 1909	44 30	30		90. 100. 2 94.	9 9.
Clerks and other subordinate sa aried employees.	- 1	9 3, 19 4 2, 38	4 2,048	3 1,140 3 590	64. 75.	1 35.9 2 24.8	Clerks and other subordinate sal	- 1919 1919 1909	1 40	20	1	80. 72. 73.	0 20. 5 27. 2 26.
Wage earners (average number).	191 191	9 103,83 4 109,52	51 089	2 52 745	8 49. 2 50.	2 49.8	3	1919 1914 1909	1,249	S74	37	5 70.	.0 30,
16 years of age and over	190	9 111,01 9 98,10 4 104.16	2 55,955 5 48,70 2 52,755 3 52 65	7 55,058 7 49,398 2 51,410	50. 49. 50. 51.	4 49.6 6 50.4 6 49.4 0 49.6	16 years of age and over	1919 1919 1909	$ \begin{array}{c cccc} 0 & 1,426 \\ 4 & 1,234 \\ 0 & 1,954 \end{array} $	1,004 861 1,413	423 373 54	2 70. 3 69. 1 72.	8 30.
Under 16 years of age		9 5,72 4 5,36	5 2,37 5 2,21 9 3,80	3,356 3,356 3,156 3,4,50	0 41.	5 58.4 2 58.4	Under 16 years of age	191	1 15	11	3 :	2 86.	.7 13.

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.]

<u> </u>	Average		иимв	ER EMPLO	OYED ON	lātei day	OF THE I	MONTH OF	R NEARES	T REPRES	entative	DAY.		Per
INDUSTRY AND STATE,	number em- ployed during year.	Jan- uary.	Feb- ruary.	March.	A pril.	Мау,	June.	Jul y.	August.	Septem- ber.	October.	Novem- ber.	Decem- ber.	cent mini- mum is of maxi- mum.
United States: 1919. Males. Females	196,404	165,308	140, 168	149,779	176, 954	193,282	208, 361	216, 510	219, 153	220, 392	218, 442	221, 912	226,587	61. 9
	112,174	93,924	79, 528	85,548	101, 217	110,359	119, 642	124, 103	125, 797	125, 579	124, 417	126, 485	129,489	61. 4
	84,230	71,384	60, 640	64,231	75, 737	82,923	88, 710	92, 407	93, 356	94, 813	94, 025	95, 427	97,098	62. 5
Woolen goods	62,957	52,063	47,872	50, 508	58, 242	63,086	66, 442	68,638	69, 131	69, 571	69, 428	70, 129	70,374	68. 0
Males.	41,993	34,043	31,497	33, 581	39, 076	42,240	44, 523	45,922	46, 236	46, 584	46, 419	46, 732	47,063	66. 9
Fernales	20,964	18,020	16,375	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	88,631	67,489	73, 916	91,796	101,375	111, 621	116,593	117, 664	119,097	116,646	118, 637	122, 495	55. 1
Males.	51,082	44,057	32,098	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	35,391	38, 158	47,049	51,874	56, 164	58,625	59, 000	60,481	59,340	60, 318	62, 002	57. 1
Carpets and rugs	22,933	18,622	18, 681	19,374	20,792	22,448	23,596	24,421	25,011	24,398	25,390	25, 961	26,502	70.3
Males.	14,032	11,289	11, 349	11,658	12,690	13,726	14,503	14,979	15,296	14,823	15,467	16, 061	16,543	68.2
Females	8,901	7,333	7, 332	7,716	8,102	8,722	9,003	9,442	9,715	9,575	9,923	9, 900	0,959	73.6
Felt goods	5,236	5,078	5,065	4,896	4,888	4,874	5,012	5,128	5,424	5,508	5,529	5,688	5,744	84. 9
Males	4,052	3,921	3,875	3,814	3,816	8,801	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	916	1,061	1,085	1,236	1,499	1,690	1,730	1,923	1,818	1,449	1,497	1,472	47.6
Males	1,015	614	709	737	888	1,091	1,240	1,252	1,394	1,290	978	1,008	979	44.0
Females	433	302	352	348	348	408	450	478	529	528	471	489	493	57.1
1914,		193,400	196, 992	202,268	203,511	203,012	200, 596	191,039	188, 355	193,567	196,350	190, 232	184,098	90, 5
1909		158,818	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	6,771	7,118	7,756	8,226	8,538	8,845	8, 555	8,706	8,006	8,787	9,132	74, 1
Georgia 1	595	596	582	597	600	598	604	617	613	593	558	590	592	90, 4
Illinois 2	482	.461	452	471	489	480	499	486	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	585	490	433	481	522	560	564	596	628	622	623	640	621	67, 7
Louisiana. Maino ¹ . Maryland. Massachusetts ¹ . Michigan ⁸ .		7,523 146 49,271 682	7, <i>374</i> 7, <i>374</i> 145 <i>39,862</i> 699	7,956 145 45,018 714	18 9,416 161 48,671 760	18 10,137 26 54,534 819	18 10,555 25 63,506 859	18 10,837 173 66,205 835	18 10, 862 300 66, 260 873	18 10,705 318 66,745 864	18 11,075 343 64,533 864	18 10,933 348 65,270 883	18 11, 583 354 66, 143 892	63. 7 7. 1 59. 7 76. 5
Minnesota 3 New Hampshire New Jersey 4 New York Ohio 3	9,772 14,782 18,800 786	580 8,491 14,092 15,302 799	559 8,222 4,018 15,204 789	548 8,596 4,079 16,174 780	563 9,313 14,469 17,547 739	561 9,568 16,405 18,181 761	573 9,977 17,227 19,151 785	586 10,327 17,859 19,650 780	583 10,546 17,949 20,271 811	578 10,475 17,864 20,367 806	580 10,476 17,722 20,647 817	598 10,540 17,772 21,452 819	599 10,733 17,928 21,664 796	90. 0 76. 6 22. 4 70. 2 89. 1
Oregon ³ . Pennsylvania. Rhode Island ³ . Tennessee.		731 26,525 18,334 1,340	722 24,364 15,827 1,327	701 24,426 17,185 1,315	756 27,162 22,644 1,247	786 30,289 24,943 1,353	805 31,925 25,893 1,404	834 33,462 27,204 1,394	848 34,204 27,519 1,379	909 34,459 27,808 1,397	886 34,447 27,736 1,418	863 34,604 28,617 1,410	855 35,365 29,006 1,408	77. 1 68. 9 54. 6 87. 9
Vermont	3,031	1,819	1,930	2, 335	2,848	3,107	3,060	3,151	3,326	3,508	3,699	3,772	3,817	47. 7
Virginia.	630	613	611	591	602	604	635	638	680	631	663	659	653	89. 1
West Virginia.	542	476	450	412	465	486	576	597	598	602	612	607	623	66. 1
Wisconsin ⁵ .	1,070	1,021	802	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.	0.070	0.014		0.001										Per ct. av. is of state.
Connecticut 1. Georgia 1. Indiana. Maine 1. Massachusetts 1. New Hampshire.		2,044 255 476 2,755 19,586 3,260	1,926 251 426 2,696 16,388 3,156	2,061 253 487 2,845 18,255 3,280	2,179 244 440 3,291 10,485 3,475	2,268 248 463 3,607 21,981 3,577	2,416 238 490 3,767 25,338 3,708	2,452 234 483 3,825 26,490 3,825	2,324 242 477 3,788 26,429 3,888	2,398 235 497 3,673 26,975 3,882	2,223 228 515 3,845 25,892 3,887	2,430 248 525 3,891 26,252 3,939	2,543 245 517 4,149 27,160 3,971	27. 9 40. 8 50. 9 35. 4 40. 2 37. 4
New Jersey 4	7,694 7,782 14,748 11,729	7,282 6,407 12,868 8,779 609	2,527 6,258 11,976 7,696 609	2,334 6,702 12,018 8,256 599	7,611 7,204 13,154 10,689 585	8,475 7,484 14,408 11,830 633	8,801 7,921 14,983 12,263 646	9,181 8,107 15,729 13,035 629	9,239 8,430 16,025 13,118 623	9,375 8,456 16,264 13,527 639	9,189 8,625 16,365 13,505 647	9,238 8,910 16,467 13,897 645	9,276 8,880 16,719 14,153 648	52.0 41.4 47.7 48.1 45.8

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

Excludes statistics for 1 establishment to avoid disclosing individual operations.

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.

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

		NUM	BER DEC.	15 or nead	EST REPRES	ENTATIVE	DAY.						914.	
STATE, AGE, AND SEX.		19			·	19				1919	I CENT	OF TOTAL	1914	
	Total.	Sninnare	Wagners	All other.	Total.	Spinners.	Woosson	411 -41-0-	Spin-	Weav-	All	Spin-	Weav-	
	100011	- Sprinters.	Weavers.	All Other.	10021.	opimiers.	weavers.	All other.	ners.	ers.	other.	ners.	ers.	All other.
United States	229, 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
10 years of age and over Malo Female Under 16 years of age. Malo Female	220, 612 127, 801 92, 811 8, 569 3, 779 4, 790	20,881 10,222 10,659 1,110 509 601	48,512 26,587 21,925 188 77 111	151, 219 90, 992 60, 227 7, 271 3, 193 4, 078	193,424 110,545 82,879 7,026 3,110 3,916	20, 455 9, 525 10, 930 1, 705 661 1, 044	45,993 25,367 20,626 180 80 100	126, 976 75, 653 51, 323 5, 141 2, 369 2, 772	9.5 8.0 11.5 13.0 13.5 12.5	22. 0 20. 8 23. 6 2. 2 2. 0 2. 3	68.5 71.2 64.9 84.9 84.5 85.1	10.6 8.6 13.2 24.3 21.3 26.7	23.8 22.9 24.9 2.6 2.6 2.6	65. 6 68. 4 61. 9 73. 2 76. 2 70. 8
Massachusetts 16 years of age and over Male Female. Under 16 years of age Male Fornale.	69, 338 65, 790 40, 149 25, 641 3, 548 1, 547 2, 001	5, 204 5, 053 2, 576 2, 477 151 72 79	13,382 13,317 7,240 6,071 65 15 50	50, 752 47, 420 30, 327 17, 093 3, 332 1, 460 1, 872	62,562 60,782 36,810 23,972 1,780 708 1,072	4,872 4,693 2,197 2,496 179 69 110	12,401 12,354 6,789 5,615 47 6 41	45, 289 43, 785 27, 874 15, 861 1, 554 633 921	7.5 7.7 6.4 9.7 4.3 4.7 3.9	19. 3 20. 2 18. 0 23. 7 1. 8 1. 0 2. 5	73. 2 72. 1 75. 5 68. 7 93. 9 94. 4 93. 6	7.8 7.7 6.0 10.4 10.1 9.7 10.3	19. 8 20. 3 18. 3 23. 4 2. 6 0. 8 3. 8	75.7 66.2 87.3
Pennsylvania. 16 years of age and over Male. Female Under 16 years of age Male. Female	35, 560 34, 270 18, 216 10, 054 1, 290 611 679	5,061 4,736 2,176 2,560 325 145 180	7,936 7,897 4,760 3,137 39 12	22, 568 21, 637 11, 280 10, 357 926 454 472	34,226 31,793 17,169 14,624 2,433 1,067 1,336	4,177 3,488 1,683 1,805 689 195 494	8,524 8,477 5,719 2,758 47 17 30	21, 525 19, 828 9, 767 10, 061 1, 697 855 842	14. 2 13. 8 11. 9 15. 9 25. 2 23. 7 26. 5	22.3 23.0 26.1 19.5 3.0 2.0 4.0	63. 5 63. 1 61. 9 64. 5 71. 8 74. 3 69. 5	12. 2 11. 0 9. 8 12. 3 28. 3 18. 3 36. 2	24. 9 26. 7 33. 3 18. 9 1. 9 1. 6 2. 2	62.9 62.4 56.9 68.8 69.7 80.1 61.6
Rhode Island. 16 years of age and over Male Fomale Under 16 years of age Male Fomale	29, 287 27, 458 14, 360 13, 098 1, 829 761 1, 068	2,740 2,486 1,284 1,252 260 116 144	5,509 5,504 3,775 1,729 5	21,032 19,468 0,351 10,117 1,564 645 919	23,024 21,493 11,508 9,985 1,531 664 867	2,939 2,406 1,072 1,334 533 228 305	4,926 4,888 3,304 1,584 33 33 5	15, 159 14, 199 7, 132 7, 067 960 403 557	9, 4 9, 1 8, 6 9, 6 14, 2 15, 2 13, 5	18. 8 20. 0 26. 3 13. 2 0. 3	71. 8 70. 9 65. 1 77. 2 85. 5 84. 8 86. 0	12.8 11.2 9.3 13.4 34.8 34.8 35.2	21. 4 22. 7 28. 7 15. 9 2. 5 5. 0 0. 6	65.8 66.1 62.0 70.7 62.7 60.7 64.2
New York 16 years of age and over Male Female. Under 16 years of age Male. Female.	21, 892 21, 782 12, 891 8, 891 110 71 30	1,812 1,811 721 1,090	4,140 4,133 2,272 1,861 7 6	15, 940 15, 838 9, 898 5, 940 102 65 37	21, 244 21, 028 11, 567 9, 461 216 183 83	2,312 2,265 878 1,387 47 23 24	4, 268 4, 264 2, 162 2, 102 4 2	14,664 14,400 8,527 5,972 105 108	8.3 8.3 5.6 12.3 0.9	18. 9 19. 0 17. 6 20. 9 6. 4 8. 5 2. 6	72.8 72.7 76.8 06.8 92.7 91.5 94.9	10.9 10.8 7.6 14.7 21.8 17.3 28.9	20. 1 20. 3 18. 7 22. 2 1. 9 1. 5 2. 4	69.0 68.9 73.7 63.1 76.4 81.2 68.7
New Jersey 16 years of age and over Male. Female. Under 16 years of age. Male. Female.	19, 265 18, 329 9, 071 9, 258 936 387 549	2,291 2,021 478 1,543 270 139	3,151 3,151 980 2,171	13,823 13,157 7,013 5,544 666 248 418	15,334 15,078 6,723 8,355 256 108	2,850 2,801 826 1,975 49 25 24	3,880 3,864 1,359 2,505 16 13	8,604 8,413 4,538 3,875 191 70 121	11.9 11.0 5.3 16.7 28.8 35.9 23.9	16. 4 17. 2 10. 8 23. 4	71.8 71.8 83.9 59.9 71.2 64.1 76.1	18.6 18.6 12.3 23.6 19.1 23.1 16.2	25. 3 25. 6 20. 2 30. 0 6. 3 12. 0 2. 0	56.1 55.8 67.5 46.4 74.6 64.8 81.8
Maine. 16 years of age and over Male. Female. Under 16 years of age. Male Female.	11,824 11,723 7,535 4,188 101 59 42	1,107 1,098 935 163 9	4,394 4,392 2,296 2,096 2 1	6,323 6,233 4,304 1,929 90 55	8,651 8,479 5,565 2,914 172 71 101	940 876 614 262 64 24 40	2,680 2,680 1,344 1,336	5,031 4,923 3,607 1,316 108 47 61	9.4 9.4 12.4 3.9 8.9 5.1 14.3	37. 2 37. 5 30. 5 50. 0 2. 0 1. 7 2. 4	53.5 53.2 57.1 46.1 89.1 93.2 83.3	10.9 10.3 11.0 9.0 37.2 33.8 39.6	31.0 31.6 24.2 45.8	58.1 58.1 64.8 45.2 62.8 66.2 60.4
New Hampshire. 16 years of age and over Male. Female. Under 16 years of age. Male. Female.	10,786 10,032 6,717 3,915 104 50 54	660 654 401 193 6 1	2,842 2,315 1,127 1,188 27 25 2	7,734 7,663 5,129 2,534 71 24 47	9,404 9,346 5,801 3,545 58 34 24	660 660 407 253	2,026 2,028 883 1,143	6,718 6,660 4,511 2,149 58 34 24	6.1 6.2 6.9 4.9 5.8 2.0 9.3	21. 8 21. 8 16. 8 30. 3 26. 0 50. 0 3. 7	72.0 72.1 76.4 64.7 68.3 48.0 87.0	7.0 7.1 7.0 7.1	21. 5 21. 7 15. 2 32, 2	71.4 71.2 77.8 60.6 100.0 100.0

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

		IN E		SHMENT OF LAB					iours			IN ES					PREVAI WERE-		IOURS
INDUSTRY AND STATE,	Total.	and	Be- tween 44and 48.	48.1	Be- tween 48and 54.	54.	Be- tween 54 and 60.		Over 60.	INDUSTRY AND STATE.	Total.	and un-	Be- tween 44 and 48.		Be- tween 48and 54.		Be- tween 54 and 60.	60.	Over 60.
United States: 1919 1914 1909	196, 404 195, 285 202, 029		10,002 (2) (2)	128, 448 1, 108 588	15, 940 4, 675 1, 270	27,002 113,333 8,180	11,473 64,599 133,530	2,273 11,511 57,384	334 59 1,077	1914 3 Michigan:	1 '	`	(a) ⁶	51,603 50	2,299 1,717	1	421 7,836	88 1,755	242
Woolen goods— 1919 1914 Worsted goods—	62,957 49,165	568 (2)	369 (²)	36,781 1,062	4,773 634	10,993 14,010	7, 607 26, 378	1,806 7,033		Minnesota: 1919 5 New Hampshire:	574		- 	269	186	817 31	494 80	8	
1919 1914 Carpets and rugs— 1919	109, 527		9,595					_		1919. 1914. New Jersey: 1919 7	9,532	4	 3 8	7,687 18,467	244 148	1,799 1,062 28	8,470 1,005	•••••	92
1914 Felt goods— 1919 1914	31,309 5,236	(2)	(3)	23	1.663	1,067	5,685	267 290		1914 5 New York: 1919. 1914.	18,800	215 (²)	32 (²)		2,287 356	9,086 16,198	307 1,023	567	i
Wool-felt hats— 1919 1914	1.448		(2)	166 18	202	1, 239 504 554	390	55	11	Ohio: 1919 6 Oregon: 1919 5	808			31 434	450	191	220	85 183	
Connecticut: 1919 3 1914 4	8,132 7,350		139	3,860		213 307	2,071 6,123	812		1914. Pennsylvania: 1919. 1914.	1 1	346	9,586	12,402 620		25 1,417 22,020	226 995 8,801	397	
Georgia: 1919 ³ 1914 ⁵ Illinois:	524					266	•••••	209 524	••••	Rhode Island: 1919 6 1914 5 Tennessee:				21,062		2,527 18,147	277 3,993		
1919 5	948	·····	(2)	122 20 13	27 119	79 35	360 752 115	70 437		1919	1,366 1,069 2,638		• • • • • •	1 000	•••••	53 146	995 703	180	40
Kentucky: 1919 1914 Louisjana:		3 (2)	(1)	2 6	10 3	247 2	300 586	_	1 1	1914 Virginia: 1919	2,226			1,926 99	•••••	121 122 8	312 1,823 420	281 103	
1919 Maine: 1919 *	9, 913			8 3,623		7 6,287 166	7,374	3		West Virginia: 1919 Wisconsin: 1910 4	1 1			.33 5	343	70 48	340 616	16 58	
Maryland: 1919	1 1					25	182	408		-									

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

	TC	TAL,							ES	TABLIS	HMENTS	EMPLO	YING				-		
INDUSTRY AND STATE,	Establishments.	earners (average number).	No wage earn- ers.			ear	o 20 age ners, usive.	ear	to 50 age ners, asive.	ear	to 100 vage rners, lusive.	ear	to 250 rage ners, usive.	ear	to 500 vage mers, lusive.	ea	to 1,000 wage rners, lusive.	,	er 1,000 wage rners.
	Establic	Wage earn	Establish- ments.	Establish- ments.	Wage еаглегѕ.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
United States1919 1914	1,016 979	196, 404 195, 285	21 24	73 84	182 195	97 110	1,286 1,376	150 138	5,462 4,947	202 193	15, 486 14, 681	289 267	45,666 43,142	117 99	40,087 34,320	34 30	22,380 21,569	33 34	65, 855 75, 055
Woolen goods1919 1914	560 501	62,957 49,165	15 17	47 54	114 114	58 58	747 684	86 78	3,146 2,833	122 120	9,469 9,231	176 141	27,527 22,452	50 28	16,613 9,242	5 4	3,504 2,677	1	1,837 1,932
Worsted goods1919 1914	292 298	103,830 109,527	2 3	4 11	8 30	18 25	277 334	36 27	1,292 1,009	48 44	3,652 8,298	82 81	13,191 13,548	52 62	18,167 22,086	1	16,610 14,936	25 25	50, 633 54, 286
Carpets and rugs 1919 1914	75 97	22,933 31,309	1	5 2	16 6	7 16	98 222	13 18	430 583	12 15	839 1,163	17 25	2,716 4,143	9	3,183 2,399	4 6	2,266 3,956	7 8	13,385 18,837
Felt goods1919 1914	49 53,	5,236 4,035	1	6	15	4 9	44 107	10 8	386 264	18 13	1,383 920	12 15	1,907 2,136	4 2	1,516 593		•••••		
Wool-felt hats1919 1914	40 30	1,448 1,249	2 4	17 11	44 30	10 2	120 29	5 7	208 258	2 1	143 69	. 2 5	325 863	2	608		•••••		
Connecticut 1	47 3 4	8,132 595 482		1	5		•••••	2 i	69	14	1,154	22 2 3	3,477 329 442	7	2,406 266			1	1,021
Indiana Kentucky	11 10	948 565		2 6	6 8	1	20 10	1 3	105	1	64	3	430 547	1	323		•••••		

 $^{^1}$ Excludes statistics for 2 establishments to avoid disclosing individual operations. 2 Excludes statistics for 6 establishments to avoid disclosing individual operations.

¹ Includes 48 and under for 1914.
2 Corresponding figures not available.
3 Excludes statistics for 2 establishments, to avoid disclosing individual opera-

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—Continued.

	то	TAL.				and the state of t			EST	ABLISH	MENTS I	EMPLOY	ring—						
INDUSTRY AND STATE.	hments.	earners (average number).	No wage earn- ers.	1 t wa earn inclu	ige iers,	ear	o 20 age lers, isive.	w 68.11	o 50 age iers, isive.	w	o 100 age ners, nsive.	car	to 250 age ners, usive.	ear	to 500 age ners, usive.	ear W	o 1,000 age ners, usive.	W	r 1,000 age ners.
	Establishments	Wage earne num	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
Louisiana Maine ¹ Maryland Massachusetts ¹ Michigan ³	3 66 3 207 9	18 9,913 207 58,084 812	i	1 4 5 1	3 8 17 1	2 6 9 2	15 72 116 20	4 1 27 1	144 25 1,004 35	15 1 48 1	1, 245 74 3, 627 60	30 1 68 3	4,317 108 11,298 347	3, 30 1	1,034 9,922 349	i	506 4,830	12	2,587 27,270
Minnesota ² New Hampshire New Jersey ³ New York Ohto ⁴			i 1 1	3 2 3 4	9 2 7 16	4 1 2 8 3	58 17 20 106 44	2 6 9 2	84 191 334 81	15 3 11 3	130 1,116 242 850 243	19 19 4 16 1	3,072 641 2,558 120	1 4 9 12 1	266 1,376 3,201 4,521 298	4 3	2,947 1,836	1 3 4	4, 105 7, 533 8, 579
Oregon ² . Pennsylvania Rhode Island ² . Tennossee.	5 259 88 13	808 30,936 24,393 1,366	7	17 1 1 1	38 1 1	36 6	515 75	67 8 1	2,382 302 40	1 51 12 2	81 3,770 1,009 129	53 30 5	293 8,332 4,871 775	1 15 19 1	391 5,315 6,390 421	10 7	6,633 4,665	3 5	3,951 7,080
Vermont Virginia West Virginia Wisconsin ⁵	18 12 7 24	3,031 630 542 1,070	1 3	····3·	9 16	1 4 1 2	8 49 16 31	2 2 2 4	92 70 63 15 0	6 1 3 4	481 96 253 250	5 1 1 4	709 130 210 617	2 1	778 276	1	963		

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 6 establishments to avoid disclosing individual operations.

TABLE 9.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919 AND 1914.

·	Е		BER OF	rs.		RAGE NI		OF	VAI	ue of produ	cts.		VALUE AD	DED BY MAN	UFACTU	RE.
INDUSTRY AND VALUE OF PRODUCT,	1919	1914	Per distrib	cent oution.	1919	1914	Per distrib	cent ution.	1919	1914	Per distrik	cent ution.	1919	1914	Per distrib	
			1919	1914			1919	1914			1919	1914			1919	1914
Wool Manufactures	1,016	979	100.0	100.0	196, 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. 0
Less than \$5,000 . \$5,000 to \$20,000 . \$20,000 to \$100,000 . \$100,000 to \$500,000 . \$500,000 to \$1,000,000 . \$1,000,000 and over .	44 52 93 289 223 315	73 72 193 423 2 119 99	4.3 5.1 9.2 28.4 21.9 31.0	7. 5 7. 4 19. 7 43. 2 12. 2 10. 1	38 255 1,624 18,402 26,860 149,225	117 548 6,271 }79,285 109,061	$ \begin{pmatrix} 1) & 0.1 \\ 0.8 & 9.4 \\ 13.7 & 76.0 \end{pmatrix} $	$ \left. \begin{array}{c} 0.1 \\ 0.3 \\ 3.2 \\ 40.6 \\ 55.8 \end{array} \right. $	96,560 593,358 4,868,918 4,808,453 164,060,608 984,957,195	160, 049 741, 465 11, 495, 333 106, 546, 834 83, 402, 694 261, 903, 438	(1) (1) 0. 4 6. 5 13. 3 79. 8	(1) 0, 2 2, 5 40, 9 56, 4	$\begin{matrix} 61,299\\ 363,513\\ 2,700,250\\ 33,928,934\\ 63,251,785\\ 375,157,992 \end{matrix}$	83, 440 424, 595 4, 561, 615 67, 952, 577 93, 164, 088	$ \begin{pmatrix} (1) \\ 0.1 \\ 0.6 \\ 7.1 \\ 13.3 \\ 78.9 \end{pmatrix} $	$ \left. \begin{array}{c} 0.1 \\ 0.3 \\ 2.7 \\ 40.9 \\ 56.1 \end{array} \right. $
WOOLEN GOODS	560	501	100.0	100.0	62, 957	49, 165	100.0	100.0	364,896,590	103, 815, 905	100.0	100.0	146,931,257	40, 119, 863	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	34 31 61 170 141 123	57 40 100 258 40 6	6. 1 5. 5 10. 9 30. 4 25. 2 22. 0	11. 4 8. 0 20. 0 59. 5 1. 2	$\begin{array}{c} 28\\ 176\\ 1,059\\ \{10,871\\ 17,072\\ 33,751\end{array}$	96 302 3,288 10,585 4,894	$ \begin{pmatrix} 1 \\ 0.3 \\ 1.7 \\ 17.3 \\ 27.1 \\ 53.6 \end{pmatrix} $	$ \left. \begin{array}{c} 0.2 \\ 0.6 \\ 6.7 \\ 82.5 \\ 10.0 \end{array} \right. $	69, 104 360, 747 3, 104, 968 48, 224, 902 102, 856, 945 210, 279, 924	122,958 409,053 5,884,002 60,128,118 25,790,164 11,481,610	(1) 0.1 0.9 13.2 28.2 57.6	$ \begin{bmatrix} 0.1 \\ 0.4 \\ 5.7 \\ 82.8 \\ 11.1 $	$ \begin{cases} 43,189 \\ 214,053 \\ 1,717,210 \\ 19,963,210 \\ 41,845,180 \\ 83,148,415 \end{cases} $	59,112 208,619 2,103,390 32,962,250 4,786,486	$ \begin{bmatrix} (1) \\ 0.1 \\ 1.2 \\ 13.0 \\ 28.5 \\ 56.6 $	$ \left.\begin{array}{c} 0.1 \\ 0.5 \\ 5.2 \\ 82.2 \\ 11.9 \end{array}\right. $
Worsted Goods	292	298	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 . \$5,000 to \$20,000 . \$20,000 to \$100,000 . \$100,000 to \$500,000 . \$500,000 to \$1,000,000 . \$1,000,000 and over .	2 3 17 65 55 150	5 16 42 96 61 78	0.7 1.0 5.8 22.3 18.8 51.4	$ \begin{array}{c} 1.7 \\ 5.4 \\ 14.1 \end{array} $ $ \begin{array}{c} 52.7 \\ 26.2 \end{array} $	$\begin{cases} 16\\ 373\\ 4,737\\ 6,641\\ 92,061 \end{cases}$	10 147 1,646 }26,847 80,877	$ \begin{pmatrix} (1) \\ (1) \\ 0.4 \\ 4.6 \\ 6.4 \\ 88.7 \end{pmatrix} $	$ \begin{bmatrix} (1) \\ 0.1 \\ 1.5 \\ 24.5 \\ 73.8 \end{bmatrix} $	7,748 29,038 866,110 { 16,503,301 42,388,007 640,742,378	10,732 167,272 2,383,800 26,701,905 44,901,035 201,503,730	(1) 0.1 2.4 0.1 91.5	$ \begin{bmatrix} (1) \\ 0.1 \\ 0.9 \\ 26.0 \\ 73.1 $	5, 141 27, 303 638, 703 638, 703 7, 676, 936 14, 103, 620 230, 456, 340	6,864 116,754 1,194,328 }22,462,591 69,087,313	$ \begin{cases} $	(1) 0.1 1.3 24.2 74.4
CARPETS AND RUGS		97	100.0	100.0	22,933	31,309	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. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	2 3 7 21 15 27	8 25 37 12 15	2.7 4.0 9.3 28.0 20.0 36.0	8, 2 25, 8 50, 5 15, 5	$\begin{matrix} 1\\ 9\\ 94\\ 939\\ 1,099\\ 19,891\end{matrix}$	71 622 } 7,326 23,290	$ \begin{cases} (1) \\ 0.4 \\ 4.1 \\ 8.7 \\ 86.7 \end{cases} $	$ \begin{array}{c} 0.2 \\ 2.0 \\ 23.4 \\ 74.4 \end{array} $	4,610 38,950 454,571 5,520,917 10,541,417 106,693,363	104,006 1,662,234 9,770,813 8,673,034 48,918,098	(1) (1) (0.4 4.5 8.6 86.6	0. 2 2. 4 20. 7 70. 8	3, 211 16, 604 197, 408 2, 168, 393 4, 127, 123 49, 623, 050	56, 953 629, 727 6, 870, 993 19, 290, 289	$ \begin{cases} $	$ \begin{array}{c} 0.2 \\ 2.3 \\ 25.6 \\ 71.8 \end{array} $
FELT GOODS	49	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. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	21 11	2 2 15 27 6 1	2. 0 6. 1 42. 9 22. 5 26. 5	3.8 3.8 28.3 50.9 11.3 1.9	59 1,297 986 2,914	232 } 3,794	1.1 { 24.8 18.4 55.7	0.2 5.8 } 94.0	254, 921 { 7,090, 374 7, 432, 657 24, 451, 588	15,731 869,181 8,769,392 4,038,853	0.7 18.1 18.9 62.3	0. 1 6. 3 64. 0 29. 5	76,577 2,981,389 2,813,788 10,577,061	6,975 351,070 } 5,026,450	0.5 { 18,1 17.1 64.3	0.1 6.5 } 93.4
WOOL-FELT HATS	40	30	100.0	100.0	1,448	1,249	100.0	100.0	6,739,652	1,944,484	100.0	100.0	3,039,830	988, 145	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over	15	9 6 11 4	12. 5 37. 5 12. 5 30. 0	30, 0 20, 0 36, 7 13, 3	0 54 40 1,348	10 20 486 733	0.4 3.7 2.8 93.1	0.8 1.6 38.9 58.7	12,398 163,723 191,048 6,372,483	22,428 49,334 696,116 1,176,606	0.2 2.4 2.8 94.6	1. 2 2. 5 35. 8 60. 5	8,658 105,553 71,362 2,854,257	15,843 36,915 283,100 630,287	0.3 3.5 2.3 93.9	1.6 3.8 29.3 65.2

¹ Less than one-tenth of 1 per cent.

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.

	NUM	BER C	P E8-	AVI	erage 1	NUMBER	OF WAC	e ea	RNERS.				VALUE OF PRO	DUCTS.			
INDUSTRY AND STATE.	TABL	JED B	ENTS		In es	tablishn vned by-	nents	Per	cent of	total.		Of estal	olishments own	ned by—	Pero	ent of	total.
	Indi- vid- uals.	Cor- pora- tions	oth-	Total.	Indi- vid- uals,	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers,
United States1919 1914 1909	149 176 257	738 645 635	129 158 232	196, 404 195, 285 202, 029	5,868 9,489 11,292	178,800 167,863 162,880	11,736 17,933 27,857	3.0 4.9 5.8	91. 0 85. 9 80. 6	6. 0 9, 2 13. 8	\$1,234,657,002 464,249,813 507,166,710	\$36, 925, 377 25, 951, 835 29, 474, 655	\$1,121,020,101 393,585,924 410,182,889	\$76,711,614 44,712,054 67,509,166	3.0 5.6 5.8	90.8 84.8 80.9	6. 2 9. 6 13. 3
Woolen goods1919 1914	94 104	399 310	67 87	62,957 49,165	3,428 3,838	54, 849 38, 743	4,680 6,584	5.4 7.8	87.1 78.8	7. 4 13. 4	364, 896, 590 103, 815, 905	19,007,028 9,519,469	320,025,490 80,312,807	25, 864, 072 13, 983, 629	5.2 9.2	87.7 77.4	7.1 13.5
Worsted goods1919 1914	27 41	229 220	36 37	103,830 109,527	2,003 4,893	96, 994 97, 981	4,833 6,653	1.9 4.5	93.4 89.4	4.7 6.1	700, 537, 482 275, 608, 474	14,586,757 14,158,134	649, 944, 584 242, 061, 557	36,006,141 19,448,783	2.1 5.1	92.8 87.8	5.1 7.1
Carpets and rugs.1919 1914	11 15	49 60	15 22	22,933 31,309	321 660	20, 806 26, 567	1,806 4,082	1.4 2.1	90.7 84.9	7.9 13.0	123, 253, 828 69, 128, 185	2,721,642 2,096,442	107, 881, 235 57, 126, 692	12,650,951 9,905,051	2. 2 3. 0	87.5 82.6	10.3 14.3
Felt goods1919 1914	1 4	46 47	2 2	5,236 4,035	292	5,236 3,743		7.2	100.0 92.8		39, 229, 540 13, 692, 765	813, 624	39, 229, 540 12, 879, 141		5, 9	100.0 94.1	
Wool-felt hats 1919 1914	16 12	15 8	10	1,448 1,249	116 62	1,176 829	156 358	8.0 5.0	81.2 66.4	10. 8 28. 7	6,739,652 1,944,484	607, 250 111, 090	5,438,792 1,205,727	693,610 627,667	9. 0 5. 7	80.7 62.0	10.3 32.3
Connecticut ¹	2 1 8 16	44 7 57 164	1 3 1 27	8,132 948 9,913 58,084	2 193 2 236 1,374	7,939 882 9,077 52,964	3,746	2.4 2.4 2.4	97.6 93.0 97.6 91.2	7.0	53, 814, 059 4, 542, 067 60, 327, 260 366, 506, 496	2 1,073,582 2 861,274 7,965,097	52,740,527 4,213,486 59,465,986 385,085,177	8 328,631 23,506,222	2.0 1.4 2.2	98.0 92.8 98.6 91.4	7.2
Michigan 4. Minnesota 4. Now Hampshire. New Jersey 6	2 1 9 3	7 10 32 20	3 3	812 574 9,772 14,782	654	³ 812 ³ 574 8,940 13,685	172 1,093	6.7 (⁷)	91.5 92.6	1.8 7.4	4,571,704 2,864,259 45,943,993 102,302,296	3, 610, 752 21, 924	3 4, 571, 704 3 2, 864, 259 41, 211, 574 95, 259, 285	1,121,667 7,021,087	7. 9 (⁶)	89.7 93.1	2.4 6.9
New York Ohio ⁷ Pennsylvania. Rhode Island ⁴	59 11	53 9 145 74	8 1 55 3	18,800 786 30,936 24,393	90 2,099 1,069	17,812 ² 786 24,627 23,145	898 4,210 179	0.5 6.8 4.4	94.7 79.6 94.9	4. 8 13. 6 0. 7	100, 401, 524 3, 385, 985 217, 598, 384 175, 312, 358	589, 794 15, 816, 943 6, 343, 652	95, 179, 060 ² 3, 385, 985 169, 330, 782 167, 974, 848	4, 632, 670 32, 450, 709 993, 858	0.6 7.3 3.6	94.8 77.8 95.8	4.6 14.9 0.6
Tennessee Vermont Virginia Wisconsin ⁹	1 3 3 7	8 13 8 14	4 2 1 3	1,366 3,031 630 1,070	² 233 ² 17 44	1,088 2,798 613 804	3 278 222	7.7 2.7 4.1	79.6 92.3 97.3 75.1	20. 4	4, 242, 057 17, 425, 823 2, 693, 142 5, 495, 363	2 1,073,150 2 47,315 308,691	3,706,257 16,352,673 2,645,827 4,269,627	3 535,800 917,045	6.2 1.8 5.6	87.4 93.8 98.2 77.7	12.6

¹ Excludes statistics for 2 establishments to avoid disclosing individual operations, 4 Includes the group "All others."

4 Includes the group "Individuals."

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

<sup>Excludes statistics for 5 establishments to avoid disclosing individual operations.
Less than one-tenth of 1 per cent.
Excludes statistics for 6 establishments to avoid disclosing individual operations.
Excludes statistics for 3 establishments to avoid disclosing individual operations.</sup>

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

	NUMBER O	F ENGINES C	R MOTORS.		1	Horsepower	•		
POWER.			4.100		Amount.		Per ce	nt distribut	ion.
	1919	1914	1909	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 Steam Engines Unphines	1,119	2,090 1,307 (1)	2,412 1,507 (1)	435, 423 352, 447 230, 900 121, 547	401, 268 318, 206 (1) (1)	377, 176 292, 044 (1) (1)	82.8 67.0 43.9 23.1	90. 7 71. 9	94.1 72.9
Turbines. Internal-combustion engines. Water wheels, turbines, and motors.	49 651	58 725	61 844	1,882 81,094	2, 673 80, 389	2, 577 82, 555	0.4 15.4	0.6 18.2	0.6 20.6
Rented Electric	8,542 8,542	2,863 2,863	6 20 620	90, 334 87, 494 2, 840	41,062 34,206 6,856	23,586 16,492 7,094	17. 2 16. 6 0. 5	9.3 7.7 1.6	5.9 4.1 1.8
Electric	22,053 8,542 13,511	10,025 2,863 7,162	3,931 620 3,311	264, 437 87, 494 176, 943	169, 495 34, 206 135, 289	90, 129 16, 492 73, 637	100. 0 33. 1 66. 9	100.0 20.2 79.8	100. 0 18. 3 81. 7

1 Not reported separately.

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

		со	AL.			Gaso-				co	AL.			Gaso. line	
STATE	Census year.	Anthracite (tons, 2,240 lbs.).	Bituminous (tons, 2,000 lbs.).	Coke (tons, 2,000 lbs.).	Fuel oils (bar- rels),	and other vola- tile oils (bar- rels).	Gas (1,000 cubic feet).	STATE.	Census year.	Anthra- cite (tons, 2,240 lbs.).	Bitumi- nous (tons, 2,000 lbs.).	Coke (tons, 2,000 lbs.).	Fuel oils (bar- rels).	and other vola- tile oils (bar- rels).	Gas (1,000 cubic feet).
United States	1919 1914	269, 962 332, 200	1,858,062 1,802,629	3, 881 1, 524	846, 206 44, 940	22,987 (¹)	67,091 77,857	New Jersey	5 1919 4 1914	118,683 142,767	106,607 28,306		1, 201 1, 372	254 (¹)	2, 184 926
Connecticut	2 1919 3 1914	1,037 7,038	79, 518 75, 677	510	15,492 452	50 (¹)	456	New York	1919 1914	25,458 31,152	244,313 220,232	885 20	1 65	(1) 89	3,283 6,890
Georgia	2 1919 4 1914		6,400 7,663		70			Ohio	6 1919 2 1914		8,623 31,731	1,500			930
Illinois	2 1919 2 1914		8,998 6,499		 		30 115	Oregon	1919 1914		1,186 520		17,851 17,668	(1)	
Indiana	1919 4 1914	883	16, 266 16, 031		4	(1)		Pennsylvania	1919 1914	56,310 84,401	262, 223 217, 463	861 32	3,205 2,246	137 (1)	7,798 36,545
Kentucky	1919 1914		4, 514 9, 195		20	2		Rhode Island	4 1919 4 1914	4,161 0,906	182,486 225,938	₁₁₈	270,975	14	1,320
Louisiana	1919			14		ļ	650	Tennessee	1919 1914		10,291 10,607		26	130 (¹)	
Maine	² 1919 ² 1914	8,036 2,239	89,947 89,279		18, 533 54	309		Vermont	4 1919 1914	102 180	35,286 32,936	414			
Maryland	1919	335	2,640					Virginia	1919	<u> </u>	5,883	 	128	42	
Massachusetts	² 1919 ² 1914	26, 167 29, 327	567,613 677,325	509 322	495,018 7,233	21,752 (1)	947 10,711	West Virginia			5,392	 .			19,993
Michigan	1919 1914	40 10	11,641 9,183		58	(1)		Wisconsin	* 1919 * 1914	3	11,820 12,454		66	(1)	53 91
Minnesota	4 1919 4 1914	717	5,946 3,112		87	(1)		All other states	1919 1914	4, 529 21, 903	91, 961 42, 950	16 16	20,752 14,630	88 (¹)	30,833 21,193
New Hampshire	1919 1914	24,218 2,560	98,508 85,528	96 92	3,030 909	(¹)									

111367—23——16

Included in figures for fuel oils.
 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 5 establishments to avoid disclosing individual operations.
 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.		QUAN	TITY.			COS	ST.		PER CEN	
EAIDEAL,	1919	1914	1909	1904	1919	1914	1909	1904	Quantity.	Cost.
Total	Poundt.	Pounds.	Pounds.	Pounds.	· \$759,193,319	\$298,063,498	\$322,441,043	\$242,561,096		135.5
Wool: In condition purchased Domestic Foreign Equivalent in scoured condition.	491,728,475 253,838,421 237,890,054 295,388,119	502, 857, 333 277, 588, 101 225, 269, 232 307, 705, 932	552,503,710 320,530,329 231,973,381 352,478,605	483,526,095 330,963,563 152,562,532 282,194,618	329,000,563 177,495,134 151,505,429	122,909,821 67,486,811 55,423,010	152,750,833 88,243,931 64,506,902	119,748,779 82,073,949 37,674,830	-11.1 -20.8 2.6 -16.2	115.4 101.1 134.9
Hair	54,340,349 3,362,621 12,271,514 7,548,790 4,722,724 38,706,214	44, 131, 227 6, 619, 750 9, 374, 841 6, 928, 622 2, 446, 219 28, 136, 636	38,707,738 4,697,898 3,241,342 2,453,984 787,358 30,769,003	43, 485, 426 1, 578, 800 5, 620, 196 2, 684, 573 2, 935, 623 36, 286, 430	16,370,627 3,594,171 7,059,259 (2) (2) 5,717,197	6,660,411 1,750,874 3,026,147 2,058,201 967,946 1,883,390	4,045,809 1,423,632 1,003,792 624,579 379,213 1,618,385	4,423,593 320,280 1,917,360 839,731 1,077,629 2,185,953	40. 4 28. 4 278. 6 207. 6 499. 8 25. 8	304.6 152.5 603.3
Cotton	22,682,635 17,299,101 5,383,534	35, 307, 083 28, 676, 781 6, 630, 302	26,546,861 23,559,623 2,987,238	36,593,401 32,850,801 3,742,000	7,815,488 5,680,087 2,185,401	3,882,900 2,849,094 1,033,806	3,204,526 2,729,226 475,300	4,541,219 4,001,338 539,881	-14.6 -26.6 80.2	143.9 108.1 349.3
Cotton, dyed, bleached, carded, and other prepared and cotton waste. Rags, clippings, etc Recovered wool fiber	17, 815, 143 48, 799, 746 37, 532, 275	(2) 62,083,016 30,158,915	(2) 42,044,854 24,877,557	(2) 81,059,536 35,782,056	4,079,446 12,024,710 14,895,473	(2) 4,954,159 4,016,382	(2) 2,935,344 3,387,155	(2) 5,748,070 4,833,949	16.1 50.9	309, 7 339, 8
Waste and noils of wool, mohair, camel hair, etc Wool waste and noils Mohair, camel, alpaca, and vicuna noils	51,481,261 49,305,632 2,175,629	50, 350, 387 46, 816, 398 3, 533, 989	35, 361, 846 34, 581, 498 780, 348	30,441,941 29,359,788 1,082,153	33,286,599 31,895,967 1,390,632	10,616,633 9,929,782 686,851	9,917,963 9,776,634 141,329	6,969,557 6,657,841 311,716	45.6 42.6 178.8	235.6 226.2 884.0
Tops, purchased	26, 466, 973	29, 177, 790	21, 103, 510	10,843,036	45,621,904	16,707,322	14,755,400	5,879,833	25.4	209.2
Yarns, purchased Woolen. Worsted Merino. Mohair Cotton	171, 914, 904 25, 759, 406 47, 126, 670 1, 609, 023 1, 113, 035 46, 039, 351 542, 587	214, 451, 204 23, 802, 234 62, 895, 372 706, 483	231, 389, 792 26, 649, 969 70, 441, 520 2, 672, 012	203,079,791 38,181,488 42,403,705 3,618,407	187, 931, 053 24, 231, 293 114, 936, 830 2, 186, 201 986, 292 30, 077, 134 4, 539, 460 896, 599	80,468,752 6,998,141 49,254,606 203,825	90,017,898 5,594,388 61,622,616 427,529	59, 904, 637 9, 270, 883 30, 309, 750 770, 627	25.7 3.3 33.1 39.8	108.8 333.1 86.5 411.4
Silk. Spun silk. Artificial silk	94, 333 448, 254	56, 988, 329 794, 693 279, 902 514, 791 (2) 7, 611, 078	65, 598, 854 479, 376 128, 122 351, 254 (2) 8, 807, 329	60,429,356 488,326 202,578 285,748 (2) 8,252,529	30,077,134 4,539,460 896,599 3,642,867 213,400 1,070,771	13,775,952 2,658,673 1,155,259 1,503,414	15, 329, 692 1, 464, 834 675, 124 789, 710	12,896,381 1,862,336 947,787 914,549	-29.8 18.2 -26.4 27.6	96. 2 209. 9 32. 8 361. 3
Linen. Júte, ramie, and other vege- table fiber.	47,389,342 Dozens.	61,653,015	56, 740, 732 Dozens.	49,705,980	9,681,266	1, 424, 622 6, 152, 933	1,620,751 3,958,088	1,368,145 3,420,515	-73.9 -16.5	-33.4 144.6
Wool-felt hat bodies and hats in the rough	Dozens. 72,213	Dozeńs. 13,449	Dozens. 21,864	Dozen's. 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		160.2

¹ A minus sign (—) denotes decrease.

³ Not reported separately.

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

		rou	NDS.			COS	T.	
MATERIAL AND STATE.	1919	1914	1909	1904	1919	1914	1909	1904
Wool: In condition purchased. Connecticut Maine 3. Massachusetts. New Hampshire. New Jersey. New York. Pennsylvania. Rhode Island. All other states 4.	491, 728, 476 111, 707, 319 111, 345, 906 3 163, 204, 889 21, 728, 587 49, 677, 494 49, 629, 245 78, 898, 288 158, 637, 082 46, 939, 686	502, 857, 333 2 9, 005, 960 8, 983, 005 3 165, 039, 667 17, 131, 490 50, 400, 202 60, 420, 225 84, 879, 429 02, 627, 429 44, 380, 926	552,503,710 2 10,172,622 13,115,532 4 167,993,961 22,734,062 44,922,157 62,829,067 107,044,311 79,082,314 44,009,684	483, 526, 095 ² 12, 765, 250 15, 114, 848 ³ 139, 798, 692 18, 608, 958 37, 944, 208 49, 608, 834 90, 306, 459 66, 009, 085 44, 300, 763	\$329,000,563 112,088,715,582,093 108,043,388 14,844,902 29,728,758 27,162,246 49,675,546 143,275,967 32,598,944	\$122,900,821 2,850,562 3,149,093 40,325,696 4,805,590 11,883,474 13,168,906 20,071,113 16,412,556 11,102,891	\$152,750,833 23,767,789 4,863,487 347,193,010 7,011,493 11,826,250 14,719,116 28,300,853 22,768,723 12,201,162	\$119,748,779 23,844,374 5,003,956 236,508,293 (6) 6,968,728 11,534,048 22,589,076 16,907,448 16,392,856
Domestic Connecticut Maine * Massachusetts New Hampshire New Hersey New York Pennsylvania Rhode Island All other states *	253, 838, 421	277, 588, 101 7, 924, 204 6, 752, 924 8 85, 349, 530 5, 818, 261 32, 602, 750 25, 051, 720 45, 811, 154 43, 352, 801 24, 924, 758	320, 530, 329 9, 084, 587 9, 575, 975 4 96, 268, 287 12, 027, 487 31, 109, 309 22, 362, 412 56, 781, 645 58, 108, 445 25, 212, 182	330, 963, 563 11, 831, 199 12, 390, 314 3 92, 006, 872 13, 998, 513 33, 963, 274 22, 456, 770 52, 605, 952 56, 776, 005 34, 934, 664	177, 495, 134 7, 093, 150 7, 409, 122 1 50, 351, 935 8, 238, 532 15, 418, 034 11, 920, 744 30, 238, 738 127, 357, 583 19, 467, 208	67, 486, 811 2, 492, 498 2, 518, 091 3 20, 022, 913 1, 721, 846 7, 002, 031 5, 826, 676 10, 957, 850 10, 185, 240 6, 755, 066	88, 243, 931 3, 474, 052 3, 585, 232 425, 664, 325 6, 806, 485 6, 754, 854 15, 674, 908 16, 408, 437 7, 342, 013	82,073,049 3,523,049 4,160,873 23,808,548 (6) 5,638,501 5,769,932 12,711,189 13,804,403 12,357,454
Foreign. Connecticut Maine 4. Massachusetts New Hampshire. New Jersey. New York. Pennsylvania. Rhode Island. All other states 4.	237, 890, 054	225, 269, 232 1,081, 756 2,210,081 79,690,137 11,313,239 17,797,452 35,368,496 39,008,275 19,274,628 19,465,108	281, 973, 381 21, 088, 035 3, 539, 567 471, 725, 674 10, 706, 575 13, 812, 848 40, 466, 655 50, 262, 666 20, 973, 869 10, 397, 502	152, 562, 532 ² 934, 051 2, 724, 534 ³ 47, 791, 820 4, 610, 445 3, 980, 932 27, 152, 064 46, 700, 507 9, 203, 080 9, 375, 090	151, 505, 429 1 4, 995, 569 4, 172, 971 8 57, 691, 453 6, 606, 370 14, 310, 724 15, 241, 502 19, 436, 808 1 15, 918, 384 13, 131, 648	55, 423, 010 2 358, 064 631, 002 2 03, 302, 783 3, 143, 684 4, 881, 443 7, 332, 230 0, 113, 263 6, 227, 316 4, 433, 225	64,506,902 298,687 1,278,255 421,528,085 3,627,868 4,929,765 7,964,262 12,634,945 7,300,286 4,949,149	37, 674, 830 321, 325 843, 083 12, 699, 745 (5) 1, 330, 227 5, 764, 116 8, 205, 086 3, 103, 045 5, 407, 603
Equivalent in scoured condition Connecticut Maine ³ . Massachusetts. New Hampshire New Jersey. New York. Pennsylvania. Rhode Island. All other states ⁶ .	295, 388, 119	307, 705, 932 2 6, 386, 974 7, 251, 676 3 99, 914, 078 12, 551, 304 28, 471, 130 37, 448, 054 54, 326, 916 31, 499, 327 29, 856, 473	352, 478, 605 2 7, 045, 156 10, 221, 289 4 108, 243, 103 13, 793, 500 22, 914, 674 46, 037, 654 69, 884, 549 43, 153, 225 31, 605, 559	282, 194, 618 2 8, 205, 794 11, 016, 422 8 83, 817, 768 (a) 27, 823, 052 60, 609, 266 36, 551, 598 54, 170, 718				
Hair: Mohair and camel, alpaca, vicuna, and all other animal hair and fur	54, 340, 349 4, 643, 969 10, 844, 803 4, 892, 977 5, 845, 661 13, 539, 537 15, 073, 402	44, 131, 227 3, 800, 538 5, 399, 163 1, 610, 842 5, 437, 285 17, 128, 417 10, 754, 982	38,707,738 8 2,657,327 4 3,876,452 2,730,077 6,611,888 20,571,702 2,260,292	43, 485, 426 * 2, 127, 980 * 4, 847, 564 361, 220 2, 310, 985 30, 582, 588 3, 255, 089	16, 370, 627 2, 585, 135 4, 335, 794 760, 394 2, 350, 780 2, 440, 350 3, 898, 174	6, 660, 411 * 994, 714 * 1, 710, 701 121, 011 747, 981 1, 583, 514 1, 502, 490	4,045,809 \$ 502,814 1,100,038 91,897 810,729 1,032,198 439,135	4, 423, 503 * 477, 768 * 1, 242, 051 30, 556 275, 573 1, 807, 056 581, 592
Cotton. Connecticut. Maine. Massachusetts. New Harnshire. New Jorsey. New York. Pennsylvania. Rhode Island. All other states 6	22, 682, 635 1 361, 195 1 3, 295, 408 5, 084, 508 963, 908 2, 788, 568 2, 913, 106 383, 396 6, 892, 486	35, 307, 083 ⁹ 904, 377 ² 2, 933, 786 10, 814, 703 2, 290, 290 119, 518 3, 486, 922 7, 285, 788 964, 914 6, 446, 695	26, 546, 861 ² 558, 585 ⁸ 1, 986, 953 10, 143, 678 489, 543 228, 378 2, 472, 801 5, 017, 601 579, 139 5, 070, 183	36, 593, 401 21, 504, 567 31, 132, 243 9, 856, 972 (6) 625, 301 2, 724, 025 5, 059, 285 1, 847, 509 11, 243, 499	7, 815, 488 1 128, 758 1 1, 145, 362 1 , 883, 328 342, 511 838, 008 790, 542 179, 402 2, 507, 577	3, 882, 900 2 125, 445 3 397, 756 1, 263, 958 270, 495 8, 968 325, 971 626, 466 141, 648 722, 193	3,204,526 282,852 253,408 1,237,820 78,358 26,541 266,039 536,262 96,882 627,364	4, 541, 219 175, 622 3431, 592 1, 306, 313 (6) 69, 456 350, 352 625, 052 290, 491 1, 291, 855
Recovered wool fiber Connecticut Maine Massachusetts New York Pennsylvania Rhode Island All other states 5	37,532,275	30, 158, 915 21, 559, 619 24, 430, 504 5, 583, 328 2, 202, 861 6, 780, 133 1, 720, 113 7, 602, 267	24,877,557 21,593,181 4,094,185 3,687,530 990,526 5,419,245 1,546,464 7,546,426	35,782,056 22,457,223 84,114,911 8,398,940 2,231,909 7,346,250 4,273,269 6,959,554	14, 895, 478 11, 969, 117 3, 418, 876 3, 980, 880 637, 359 1, 125, 020 1, 583, 717 3, 180, 504	4,016,382 2 245,792 5 671,242 8 692,537 240,611 706,934 269,621 1,180,645	3,387,155 1,295,442 1,484,770 547,990 140,928 550,473 255,829 1,107,725	4,833,949 2323,976 8602,176 1,030,990 273,609 904,165 631,450 1,067,583
Waste and noils of wool, mohair, camel hair, etc. Connecticut. Maine. Massachussetts New Jorsey New York. Pennsylvania. Rhode Island All other states 6.	51, 481, 261 11, 980, 989 15, 162, 141 116, 582, 981 2, 109, 377 4, 167, 529 8, 749, 369 13, 743, 092 0, 985, 833	50, 350, 387 21, 953, 136 4, 564, 425 510, 959, 863 6, 160, 433 4, 983, 209 8, 930, 422 2, 075, 203 10, 723, 696	35,361,846 21,871,648 2,380,110 49,996,811 1,586,752 4,413,834 5,558,435 2,578,085 6,676,271	30,441,941 22,203,438 1,850,639 8,935,753 973,898 3,214,128 4,384,082 3,160,612 5,659,411	33, 286, 599 11, 113, 999 13, 212, 831 100, 806, 415 1, 436, 083 2, 977, 754 4, 036, 028 13, 314, 047 6, 390, 442	10,616,633 2,516,398 2,893,273 2,657,705 1,227,346 1,089,584 1,689,422 471,491 2,091,416	9, 917, 968 466, 078 718, 536 42, 692, 110 557, 563 1, 231, 700 1, 463, 775 839, 389 1, 950, 782	6, 969, 557 2, 517, 193 2, 314, 666 246, 702 736, 555 671, 882 880, 810 1, 174, 711
Tops, purchased	26, 466, 973 6, 766, 376 2, 490, 316	29, 177, 790 9, 110, 710 4, 029, 376 10, 221, 069 5, 816, 635	21, 103, 510 4 5, 039, 116 2, 445, 813 10, 406, 834 3, 211, 747	10, 843, 036 2, 999, 927 1, 273, 118 4, 150, 072 2, 419, 919	45,621,904 11,439,360 3,935,747 22,708,588 7,448,209	16,707,322 4,974,310 2,288,774 6,516,989 2,927,249	14, 755, 409 43, 461, 319 1, 530, 899 7, 887, 543 1, 875, 648	5,379,333 1,605,067 595,512 2,455,639 723,118

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

		POUN	ms.			COS	r.	
MATERIAL AND STATE.	1919	1914	1909	1004	1919	1914	1909	1904
Yarns, purchased. Connecticut. Maine. Massachusetts. New Hampshire. New Jersey New York. Pennsylvania. Rhode Island. All other states 5.	171, 914, 904	214, 451, 204	231, 389, 792	203, 079, 791	\$187, 931, 653	\$80, 468, 752	\$90, 017, 898	\$59, 904, 637
	4, 239, 473	2 5, 778, 136	26, 372, 748	2 4, 593, 783	9, 999, 291	2 4, 431, 030	2 6, 056, 001	2 3, 186, 754
	1 3, 749, 882	8 3, 631, 773	3, 424, 663	3 3, 670, 807	12, 920, 248	a 1, 266, 335	3 1, 610, 516	3 1, 751, 413
	36, 417, 315	44, 334 079	46, 077, 736	32, 266, 465	43, 463, 995	22, 026, 410	24, 461, 745	13, 249, 978
	1, 182, 461	1, 526, 795	1, 749, 948	(5)	36, 379	458, 770	729, 652	(b)
	11, 749, 327	11, 654, 345	10, 125, 494	6, 926, 904	18, 510, 801	7, 002, 308	6, 777, 696	1, 932, 252
	31, 086, 613	44, 743, 528	44, 329, 400	38, 741, 798	10, 403, 549	7, 026, 303	6, 528, 630	5, 409, 437
	58, 078, 206	70, 322, 421	38, 523, 601	87, 267, 624	55, 573, 372	22, 004, 499	26, 776, 433	20, 658, 795
	14, 484, 856	17, 529, 345	19, 207, 818	17, 756, 202	32, 016, 078	12, 831, 499	13, 915, 166	10, 889, 316
	10, 926, 771	14, 830, 282	11, 518, 294	11, 856, 148	9, 307, 340	2, 821, 508	3, 162, 059	2, 826, 692
Woolen	25,759,406	23, 802, 234	26, 649, 969	38, 181, 488	24, 231, 293	6,998,141	5, 594, 388	9, 270, 883
	3,315,996	3, 986, 066	1, 534, 135	1, 402, 016	4, 102, 542	1,085,094	268, 683	669, 314
	2,542,841	1, 114, 365	768, 495	1, 036, 163	2, 922, 393	423,968	274, 219	286, 008
	1,582,377	762, 805	691, 413	4, 290, 001	898, 125	242,260	219, 976	947, 983
	16,829,854	17, 118, 410	22, 463, 957	27, 380, 884	14, 490, 904	4,900,066	4, 412, 546	5, 782, 135
	1,488,338	820, 528	1, 191, 969	4, 072, 424	1, 817, 329	346,753	418, 964	1, 635, 443
Worsted. Connecticut. Massachusetts New Jersey New York. Pennsylvania. Rhode Island. All other states 5.	47, 120, 670	62, 895, 372	70, 441, 520	42, 403, 705	114, 936, 830	49, 254, 606	61, 622, 616	30, 309, 750
	3, 598, 193	24, 101, 962	25, 113, 219	2 2, 558, 669	9, 564, 369	23, 806, 284	25, 629, 603	2 2, 498, 109
	14, 735, 188	10, 458, 214	21, 470, 242	11, 130, 612	32, 528, 849	15, 324, 771	18, 923, 644	8, 108, 150
	5, 229, 676	7, 066, 772	6, 240, 943	1, 307, 443	14, 044, 023	5, 988, 147	6, 011, 147	995, 207
	1, 127, 777	2, 315, 83	3, 050, 833	1, 971, 882	1, 806, 828	1, 310, 225	2, 006, 843	1, 038, 396
	9, 459, 434	14, 004, 345	18, 088, 331	12, 897, 804	25, 314, 242	10, 679, 197	14, 461, 212	7, 958, 394
	11, 790, 315	14, 907, 573	13, 403, 104	10, 382, 578	28, 729, 209	11, 422, 456	11, 987, 111	8, 069, 611
	1, 186, 087	980, 813	3, 074, 758	2, 154, 657	2, 948, 710	723, 526	2, 603, 056	1, 581, 883
Merino.	1,609,023	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, 860
All other states 6	304,902	353, 928	429,700	802,464	452,874	97, 282	117, 726	263, 767
Mohair Massachusetts Pennsylvania Rhodo Island All other states ⁶ .	1,113,035 52,857 834,858 64,314 161,006	(b) (5) (b) (5)	(5) (5) (4) (5)	(5) (5) (5) (5)	986, 292 93, 510 552, 583 109, 323 230, 876	(5) (5) (6) (5)	(5) (5) (5) (5)	(6) (6) (6)
Cotton Connecticut Maine Massachusetts Now Hampshire. New Jersey. New York. Pennsylvania Rinode Island. All other states 6	46, 039, 351 641, 280 1 3, 740, 882 15, 024, 251 1, 182, 461 2, 087, 080 5, 892, 876 12, 372, 351 2, 521, 128 2, 568, 042	56, 988, 329 21, 477, 480 3, 443, 361 14, 764, 361 1, 355, 139 1, 290, 906 8, 730, 836 18, 816, 137 2, 369, 712 4, 734, 377	65, 508, 854 1, 193, 956 2, 449, 258 16, 425, 293 1, 183, 680 1, 702, 805 7, 589, 373 20, 354, 704 5, 479, 701 4, 220, 084	60, 429, 356 21, 689, 875 2, 005, 774 12, 786, 599 (a) 2, 168, 820 5, 739, 538 24, 488, 354 5, 596, 723 5, 983, 673	30, 077, 134 434, 922 1 2, 920, 248 9, 892, 865 736, 379 926, 702 2, 829, 945 8, 222, 562 2, 217, 868 1, 895, 643	13,775,952 2 339,935 1,113,711 4,222,281 387,387 250,650 1,822,559 3,849,490 784,833 1,035,206	15, 329, 692 ² 291, 770 ³ 813, 080 4, 212, 147 277, 696 345, 482 1, 442, 375 5, 476, 389 1, 530, 130 940, 623	12, 896, 381 2 387, 804 3 604, 875 3, 215, 052 (5) 460, 301 1, 120, 404 4, 451, 736 1, 391, 592 1, 204, 527
Silk and spun silk Massachusetts New Jersey New York Pennsylvania Rhode Island All other states ⁶	542,587	794, 693	479, 376	488, 326	4,539,466	2,658,673	1,464,834	1,802,336
	134,364	201, 216	104, 801	146, 673	1,072,161	657,507	366,504	540,051
	40,964	22, 721	6, 122	5, 855	256,640	101,938	31,284	18,227
	4,688	10, 597	15, 413	21, 018	43,912	30,464	53,093	61,627
	171,860	356, 266	246, 038	126, 132	1,554,292	1,001,309	536,860	450,895
	109,099	110, 562	45, 567	137, 458	960,278	530,579	222,473	573,504
	81,612	93, 331	61, 375	51, 190	652,183	336,876	194,620	211,972
Artificial silk. Massachusetts. Pennsylvania. All other states ⁶ .	39,990 6,848 19,258 13,884	(6) (6) (6) (5)	(5) (6) (6) (5)	(5) (5) (5) (6)	213,400 37,299 101,107 74,994	(5) (5) (5) (5)	(6) (5) (6) (6)	(5) (6) (6)
Linen	2, 205, 500	7,611,078	8,807,329	8,252,529	1, 079, 771	1,424,622	1, 620, 751	1, 368, 145
Massachusetts	210, 134	944,122	1,195,599	1,588,434	83, 596	183,500	215, 556	255, 555
New York.	838, 862	3,750,272	4,858,864	5,049,746	405, 745	675,801	806, 837	819, 971
Pennsylvania	527, 216	1,430,459	1,483,096	1,232,933	2,48, 076	280,865	286, 481	220, 776
All other states ⁶	719, 288	1,486,225	1,269,770	381,416	342, 354	284,456	252, 877	71, 843
Jute, ramie, and other vegetable fiber. Massachusetts New Jersey. New York. Pennsylvania. All other states *	47, 389, 342	61, 653, 015	58,740,732	49,705,980	9, 681, 266	6, 152, 933	3,958,088	3,426,515
	2, 937, 677	4, 789, 631	6,314,491	5,084,250	653, 173	502, 408	468,588	346,348
	1, 848, 768	2, 087, 281	1,352,442	2,406,587	360, 443	218, 885	105,193	171,613
	21, 640, 033	29, 087, 287	27,857,594	21,403,311	4, 418, 994	2, 922, 044	1,881,506	1,301,661
	16, 559, 254	28, 284, 249	17,645,163	18,325,514	3, 356, 279	1, 787, 029	1,234,142	1,337,999
	4, 403, 612	7, 451, 747	3,571,072	2,486,318	892, 377	722, 567	268,659	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 Figures not available.
5 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
Total	Pounds, 430, 322, 300	Pounds. 458,090,596	Pounds. 475, 556, 394	Pounds. 468, 857, 495
Scoured wool	295, 388, 119	307, 705, 932	352, 478, 605	282, 194, 618
Mohair, and camel, alpaca, and vicuna hair Other animal hair and fur Recovered wool fiber Purchased Made for own consump-	15, 634, 135 38, 706, 214 57, 911, 197 37, 532, 275	15, 994, 591 28, 136, 636 70, 946, 264 30, 158, 915	7, 938, 735 30, 769, 003 57, 823, 190 24, 877, 557	7, 108, 996 36, 286, 430 100, 584, 050 35, 782, 050
tion	20, 378, 922 22, 682, 635	40,787,349 35,307,083	32, 945, 633 26, 546, 861	70, 801, 994 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 vicuna hair. Other animal hair. Recovered wool fiber. Purchased. Made for own consumption.	. 3.6 9.0 13.5 8.7 4.8 5.3	3. 5 6. 1 15. 5 6. 6 8. 9 7. 7	1.7 6.5 12.2 5.2 6.9 5.6	1.5 7.7 22.7 7.6 15.1 7.8
Cotton	0.0	1.1	5.0	1.0
Scoured wool and recovered wool fiber, total	353, 299, 316	378, 652, 196	410,301,795	388,778,668
Per cent of total	100.0	100.0	100.0	100.0
Scoured wool Recovered wool fiber Purchased	83. 6 16. 4 10. 6	81.3 18.7 7.9	85.9 14.1 6.1	72. 6 27. 4 9. 2
Made for own consump- tion	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 manufac- tures.	Woolen goods.	Worsted goods.	Carpets and rugs.	Felt goods.	Wool- felt hats.
Wool purchased Domestie Foreign	Pounds. 491,728,475 253,838,421 237,890,054	63, 859, 091	Pounds. 337, 669, 614 181, 971, 185 155, 698, 429	395,875	11,804,373 7,496,750	200, 294 115, 514
In condition purchased: In grease. Domestic Foreign Washed. Domestic Foreign Scoured. Domestic Foreign	2,731,361	20, 055, 649 16, 679, 608 2, 225, 277 257, 102 1, 968, 175 66, 831, 756 43, 546, 340	1,975,214 2,687,549 3,956,488 2,039,589	324,247 31,492,428 2,378,592 40,573 2,338,019 2,066,637 31,055	2, 929, 503 2, 282, 398 870, 068 458, 472 411, 596 5, 722, 314 4, 108, 691	189,859 105,079
Domestic Foreign Scoured Domestic	567, 202, 771 296, 329, 733 270, 873, 038 295, 388, 119 148, 760, 651 146, 627, 468	101, 044, 010 66, 936, 827 86, 547, 717 53, 249, 971	342, 630, 044 183, 363, 070 159, 272, 974 177, 288, 745 88, 963, 108 88, 325, 637	433,005 38,463,660 21,905,916 248,900	11,271,897 6,032,050 9,450,918 6,188,624	217,745 167,527 194,828 110,048

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.	Connecti-	Maine.	Massachu- setts.2	New Hampshire.	New Jersey.	New York.	Pennsyl- vania.	Rhode Island.	All other states.
Wool purchased: Pounds Cost Domestic—	491,728,475 \$329,000,563	11,707,319 \$12,088,719	11,345,905 \$11,582,093	163,264,869 \$108,043,388	21,728,587 \$14,844,902	49, 577, 494 \$29, 728, 758	49, 629, 245 \$27, 162, 246	78, 898, 288 \$40, 675, 546	58,637,082 \$43,275,967	46,939,686 \$32,698,944
Pounds Cost	253, 838, 421 \$177, 495, 134	6,703,814 \$7,003,150	6,994,166 \$7,409,122	74, 574, 826 \$50, 351, 935	10,743,702 \$8,238,532	28, 173, 174 \$15, 418, 034	16,386,976 \$11,920,744	46, 483, 033 \$30, 238, 738	38,114,858 \$27,357,583	25,663,872 \$19,467,296
Foreign— Pounds Cost	237, 890, 054 \$151, 505, 429	5,003,505 \$4,995,569	4,351,739 \$4,172,971	88,690,043 \$57,691,453	10,984,885 \$6,606,370	21, 404, 320 \$14, 310, 724	33, 242, 269 \$15, 241, 502	32, 415, 255 \$19, 436, 808	20, 522, 224 \$15, 918, 384	21, 275, 814 \$13, 131, 648
In condition purchased— In grease. Domestic. Foreign Washed Domestic. Foreign Scoured. Domestic. Foreign	201, 548, 415 10, 136, 700 2, 731, 361 7, 405, 339 78, 767, 054	Pounds. 3,965,185 2,151,811 1,813,374 7,742,134 4,552,003 8,190,131	Pounds. 3, 029, 505 1, 385, 224 1, 644, 281 197 197 8, 316, 203 5, 608, 745 2, 707, 458	Pounds. 136, 480, 865 60, 007, 205 76, 473, 570 4, 856, 647 2, 021, 028 2, 835, 619 21, 927, 357 12, 546, 503 9, 380, 854	Pounds. 15, 163, 594 5, 789, 242 9, 374, 352 6, 564, 993 4, 954, 460 1, 610, 533	Pounds. 47, 219, 107 27, 935, 381 19, 283, 726 915, 944 99, 100 816, 844 1, 442, 443 138, 603 1, 303, 750	Pounds. 43,050,488 13,745,573 20,313,915 2,375,474 30,304 2,345,170 4,194,283 2,611,099 1,583,184	Pounds, 71, 774, 628 42, 878, 073 28, 896, 555 1, 217, 992 280, 144 987, 848 5, 905, 668 3, 324, 816 2, 580, 852	Pounds. 53, 096, 273 35, 325, 521 17, 770, 752 56, 569 25, 569 30, 000 5, 484, 240 2, 762, 768 2, 721, 472	Pounds. 29,086,076 12,058,186 16,977,890 713,877 274,019 499,858 17,189,733 13,331,667 3,858,066
Equivalent total— In grease. Domestic. Foreign Scoured Domestic. Foreign.	296, 329, 733 270, 873, 038 295, 388, 119 148, 760, 651	19, 418, 431 10, 870, 444 8, 547, 987 9, 562, 788 5, 540, 540 4, 022, 248	19, 550, 283 11, 920, 590 7, 629, 693 10, 227, 991 6, 271, 295 3, 956, 696	184,977,949 84,946,985 100,030,964 100,078,489 40,598,730 59,479,759	27, 267, 624 14, 667, 985 12, 599, 639 13, 875, 687 7, 518, 242 6, 357, 445	51, 263, 797 28, 385, 887 22, 877, 910 26, 037, 691 14, 330, 191 11, 707, 470	54, 116, 792 18, 642, 545 35, 474, 247 28, 550, 910 9, 356, 120 19, 194, 790	84, 521, 654 49, 382, 026 35, 139, 628 44, 164, 079 26, 226, 890 17, 937, 189	63, 438, 544 40, 175, 503 23, 203, 041 30, 642, 303 19, 201, 405 11, 440, 898	62, 647, 697 37, 337, 768 25, 309, 929 32, 248, 211 19, 717, 238 12, 530, 973

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

	QUANTITY,	IN CONDITION 1 (POUNDS).	PURCHASED	PER (
INDUSTRY AND YEAR,	Total.	Domestic.	Foreign.	Do- mes- tic.	For-
Wool Manufac- tures:					
1919	491, 728, 475 502, 857, 333 552, 503, 710 483, 526, 095 394, 369, 523 361, 158, 020 287, 597, 334	253, 838, 421 277, 588, 101 320, 530, 329 330, 963, 563 257, 934, 562 239, 775, 712 214, 845, 394	237, 890, 054 225, 269, 232 231, 973, 381 152, 562, 532 136, 434, 961 111, 382, 303 72, 751, 940	51. 6 55. 2 58. 0 68. 4 65. 4 68. 3 74. 7	48.4 44.8 42.0 31.6 34.6 31.7 25.3
WOOLEN GOODS: 1919. 1914. 1909. 1904. 1899. 1889. 1879. WORSTED GOODS;	105, 792, 290 78, 873, 319 87, 037, 325, 727 150, 200, 616 185, 307, 944 197, 524, 955	63, 859, 091 62, 236, 522 73, 514, 264 132, 656, 502 127, 678, 662 168, 485, 806 177, 042, 288	41, 933, 199 16, 636, 797 13, 523, 679, 225 24, 679, 225 22, 521, 954 16, 822, 138 20, 482, 687	80.4 78.9 84.5 84.3 85.0 90.9 89.6	39.6 21.1 15.5 15.7 15.0 9.1 10.4
1919. 1914. 1909. 1904. 1889. 1889. 1879. CARPETS AND RUGS:	337, 669, 614 355, 854, 756 387, 717, 415 261, 368, 084 179, 977, 936 97, 701, 474 41, 149, 326	181, 971, 185 204, 397, 808 237, 088, 015 187, 143, 988 122, 714, 543 59, 832, 451 25, 461, 511	165, 698, 429 151, 456, 888 150, 629, 400 74, 224, 096 57, 263, 393 37, 869, 023 15, 687, 815	53. 9 57. 4 61. 1 71. 6 68. 2 61. 2 61. 9	46. 1 42. 6 38. 9 28. 4 31. 8 38. 8 38. 1
1919. 1914. 1900. 1904. 1889. 1889. 1879. FELT GOODS:	36, 261, 904 52, 552, 449 64, 135, 020 51, 320, 521 51, 871, 334 56, 881, 566 36, 037, 570	395, 875 149, 503 231, 413 856, 868 109, 811 2, 139, 332 2, 029, 318	35, 866, 029 52, 402, 946 63, 903, 607 50, 463, 653 51, 761, 523 54, 742, 234 34, 008, 252	1.1 0.3 0.4 1.7 0.2 3.8 5.6	98. 9 99. 7 99. 6 98. 3 99. 8 96. 2 94. 4
1919	11, 804, 373 14, 969, 852 12, 409, 826 11, 868, 238 9, 606, 263 6, 729, 083 4, 913, 873	7, 496, 756 10, 511, 057 8, 562, 413 8, 779, 197 5, 357, 383 5, 039, 495 4, 204, 806	4,307,617 4,458,795 3,847,413 3,089,041 4,248,880 1,689,588 709,067	63. 5 70. 2 69. 0 74. 0 55. 8 74. 9 85. 6	36.5 29.8 31.0 26.0 44.2 25.1 14.4
1919. 1914. 1909. 1904. 1839. 1889.	1,633,525 2,713,374 4,537,953	115,514 293,151 1,184,224 1,527,008 2,074,163 4,278,628 6,107,471	84,780 313,806 69,274 106,517 639,211 259,325 1,864,139	57.7 48.3 94.2 93.5 76.4 94.3 76.6	42.3 51.7 5.8 6.5 23.6 5.7 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.
United States	Pounds. 238,710,827	Pounds, 257, 724, 007	Pounds. 299, 692, 775
Connecticut. Georgia. Illinois. Indiana. Kentucky. Maine. Massachusetts. Michigan. Minnesota. New Hampshire. New Jersey. New York. North Carolina. Ohio. Orogon. Pennsylvania. Rhode Island. Tonnessee. Vermont. Virginia. Washington.	221, 816 115, 131 269, 311 4, 415, 003 88, 795, 908 536, 736, 169, 868 11, 092, 824 21, 404, 320 33, 418, 523 31, 418, 523 32, 497, 268 20, 622, 224 38, 773 1, 829, 691 281, 805	7, 106, 377 80, 951 1, 983, 703 3, 495, 823 1, 325, 093 7, 804, 633 75, 207, 671 1, 323, 795 1, 099, 278 10, 704, 068 28, 173, 174 17, 565, 127 1, 186, 767 4, 006, 120 2, 762, 044 47, 515, 014 487, 515, 014 487, 515, 014 487, 515, 014 487, 515, 014 487, 515, 014 487, 515, 014 487, 515, 014 487, 515, 014 487, 515, 014 488, 281, 576 983, 279 486, 928 870, 870 486, 180 1, 083, 755	13, 944, 981 58, 989 1, 322, 316 3, 421, 241 1, 073, 758 10, 835, 280 100, 785, 083 1, 534, 229 744, 723 14, 003, 992 26, 037, 661 29, 795, 787 367, 847 7, 715, 907 2, 199, 294 45, 179, 870 30, 849, 021 728, 650 3, 012, 451 3, 012, 451 421, 789
West Virginia. Wisconsin All other states 1.	264,621	1,053,755 2,196,471 2,045,309	807, 068 1, 858, 580 2, 256, 697

 $^{^{1}\,\}mathrm{All}$ 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
Wool (in condition pur- chased)	Pounds. 496, 434, 834	Pounds. 510, 008, 799	Pounds. 559, 850, 995	Pounds. 501, 468, 203
Wool manufactures. Woolen goods. Worsted goods. Carpets and rugs. Felt goods. Wool-felt hats. Cotton goods Knit goods. Wool shoddy Frir-felt hats	337,669,614 36,261,904 11,804,373 200,294 7,239 4,518,068	78, 873, 319 355, 854, 756 52, 552, 449 14, 969, 852 606, 957	87, 037, 951 387, 717, 415 64, 135, 020 12, 409, 826 1, 203, 498 41, 400 7, 068, 788	11,868,238 1,633,525 17,300,616
Wool (equivalent of above in scoured condition)	299, 692, 775	313, 982, 057	358, 298, 941	296, 569, 254
Wool manufactures. Woolen goods Worsted goods. Carpots and rugs. Felt goods. Wool-felt hats Cotton goods Knit goods Wool shoddy Fur-felt hats.	9,450,913 194,828 7,239	58, 693, 405 198, 755, 341 39, 218, 831 10, 476, 716 561, 639	51,474,853 9,308,172 989,110	282, 194, 618 102, 106, 291 139, 173, 774 31, 551, 895 8, 131, 082 1, 281, 576 13, 909, 144 421, 492 44, 000
Woolen, worsted, and me- rino yarns	100,602,636	115, 832, 891	122,714,085	102,411,024
Wool manufactures. Woolen goods. Worsted goods. Carpets and rugs. Felt goods. Cotton manufactures. Cotton goods. Cotton goods. Knit goods. Silk goods. Wool shoddy.	6,879,516 46,048,926 21,558,625 8,032 484,390 481,890 2,500 24,984,813 638,334	3, 898, 922 52, 427, 109 30, 961, 720 116, 338 656, 780 585, 414 71, 375 25, 784, 095	8,035,598 54,010,104 37,595,684 116,115 1,613,118 1,251,282 361,830 20,524,878	9,582,443 29,673,246 44,823,531 124,380 1,428,077 1,398,904 29,173 16,197,803 581,544

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.
Yarns	Pounds. 439, 806, 696	Pounds. 120, 534, 450	Pounds. 319,272,246
Ali wool. Woolan Connecticut 1 Indiana Maine 1 Massachusetts Michigan New Hampshire New Jersey New York Ohio Pennsylvania Rhode Island Tennessee Vermont Wisconsin All other states	338, 608, 785 223, 415, 768 17, 437, 662 3, 288, 967 29, 340, 135 54, 917, 677 1, 242, 822 14, 399, 775 7, 984, 925 29, 008, 763 1, 591, 625 31, 570, 603 7, 998, 604 1, 736, 075 9, 976, 348 1, 409, 907 11, 433, 820	72, 888, 076 25, 759, 406 383, 966 43, 000 3, 315, 996 2, 542, 841 1, 582, 377 10, 829, 854 802, 419 100, 973 58, 554	205, 722, 709 197, 656, 362 17, 053, 696 3, 288, 967 29, 306, 135 61, 601, 681 1, 242, 822 14, 396, 381 5, 442, 084 27, 486, 386 1, 591, 593 14, 749, 809 7, 106, 188 1, 736, 076 9, 889, 375 1, 409, 907 11, 376, 266
Worsted	115, 193, 017 3, 644, 659 904, 210 40, 843, 891 4, 653, 405 10, 873, 266 9, 678, 248 13, 459, 008 22, 888, 981 1, 258, 743 6, 928, 611	47, 128, 670 3, 598, 193 77, 753 14, 785, 188 250, 470 5, 229, 676 1, 127, 777 9, 469, 434 11, 700, 315 542, 307 315, 657 1, 609, 023	68, 066, 347 40, 466 880, 457 26, 108, 703 4, 402, 935 6, 643, 590 8, 550, 466 3, 999, 574 11, 038, 666 716, 436 6, 613, 054 43, 555, 300
Connecticut Maine ¹ Massachusetts	1,845,200 5,264,090 10,030,317	26,208	1,845,200 5,264,090 10,004,109

Table 21.—Yarns, and Recovered Wool Fiber, Used in Wool Manufactures: 1919—Continued.

MATERIAL AND STATE.	Total.	Purchased.	Made in es- tablishments using.
Yarns—Continued. Merino—Continued. New Hampshire. New Jersey. New York. Ohio. Pennsylvania. West Virginia. All other states. Cotton. Connecticut. Maine 1. Massachusetts. New Hampshire. New Jersey. New York. Pennsylvania.	Pounds. 1,587,970 3,369,495 1,418,148 2,489,020 10,075,285 1,036,565 8,048,064 56,033,75 641,280 4,780,216 19,338,200 2,075,671 2,087,080 7,663,553 12,850,559	Pounds. 2,083 16,608 1,304,121 260,000 46,039,351 641,230 3,749,882 15,024,251 1,182,461 2,087,080 6,892,876 12,372,351	Pounds. 1, 585, 884 3, 352, 887 1, 418, 148 2, 489, 020 8, 771, 164 1, 036, 565 7, 788, 064 9, 994, 406 1, 030, 334 4, 313, 958 893, 210 1, 770, 677 478, 308
Rhode Island All other states Recovered wool fiber Connecticut 1 Maine 1 Massachusetts Minnesota New Hampshire Now Jersey New York Pennsylvania Rhode Island 1 Vermont Wisconsin All other states	2, 724, 747 3, 872, 342- 57, 911, 107 4, 409, 422 8, 765, 406 21, 242, 778 276, 835 4, 676, 135 2, 283, 066 3, 025, 679 3, 187, 404 1, 510, 470 1, 050, 439 408, 258 5, 605, 705	2,521,128 2,568,042 37,582,275 3,909,777 8,397,011 11,120,116 228,555 3,655,450 42,692 2,177,28 2,436,905 1,458,951 1,303,515 294,709 2,506,439	48, 289 920, 675 2, 240, 974 1, 448, 441 750, 499 51, 510 655, 924 113, 549

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.			
TRODUCT AND STREET	1919	1919	1914	1909	1904	1919	1914	1909	1904	Square yards.	Value.
Total value		Square yards.				\$1,234,657,092					143.4
Woven goods 4 Connecticut. Maine. Massachusetts. New Hampshire. New York. Pennsylvania. All other states.	00, 441, 400	142,001,000	560, 402, 683 24, 393, 717 39, 019, 028 220, 748, 263 39, 106, 286 23, 603, 273 55, 330, 197 164, 201, 919	571, 850, 648 24, 553, 203 33, 678, 262 223, 761, 500 38, 927, 776 24, 308, 778 68, 990, 264 157, 130, 865	506, 013, 537 28, 460, 588 31, 387, 917 186, 784, 354 20, 599, 005 60, 101, 868 178, 679, 205	741, 804, 867 48, 336, 265 50, 743, 797 258, 491, 332 42, 391, 230 28, 450, 076 78, 479, 004 234, 913, 153	269, 145, 263 15, 853, 044 15, 153, 575 97, 810, 697 14, 200, 788 12, 702, 447 28, 844, 286 84, 580, 426	296, 730, 614 17, 464, 589 15, 359, 310 107, 064, 598 15, 346, 708 16, 317, 657 35, 294, 343 90, 853, 409	234, 820, 240 14, 657, 276 16, 167, 584 80, 629, 821 (4) 13, 613, 945 26, 858, 837 82, 892, 777	-6.0 20.7 39.9 -3.0 -14.5 -20.8 -29.0 -9.6	150, 0 176, 8 230, 4 141, 4 176, 2 85, 7 122, 4 158, 5
All-wool woven goods. Connecticut. Maine. Massachusetts. New Hampshire. New Jersey. New York. Pennsylvania. Rhode Island. All other states.	211, 549, 741 10, 467, 520 15, 009, 173 69, 022, 613 27, 904, 604 12, 342, 366 7, 936, 178 14, 651, 821 28, 204, 180 20, 011, 286	327, 377, 554 22, 768, 782 20, 275, 766 118, 666, 333 22, 404, 350 29, 575, 885 12, 937, 468 23, 277, 409 56, 782, 930 26, 687, 622	323, 768, 983 10, 021, 944 14, 697, 562 114, 830, 218 20, 880, 031 36, 464, 187 14, 448, 467 28, 987, 670 46, 713, 932 30, 724, 972	323, 444, 896 17, 987, 303 15, 080, 929 109, 221, 437 25, 922, 838 26, 793, 087 17, 243, 627 33, 149, 873 53, 661, 591 24, 375, 211	260, 681, 119 18, 377, 887 12, 999, 162 85, 615, 420 (15, 420) 16, 804, 826 12, 459, 972 26, 622, 510 43, 831, 236 43, 970, 116	573, 519, 887 43, 428, 772 30, 470, 684 189, 234, 850 32, 377, 902 65, 854, 653 22, 121, 510 53, 358, 521 90, 154, 099 46, 518, 996	203, 756, 781 12, 450, 958 8, 037, 756 72, 163, 336 10, 081, 736 21, 434, 793 10, 231, 942 20, 577, 665 32, 132, 963 16, 639, 642	220, 079, 555 15, 103, 628 8, 607, 710 78, 878, 571 11, 791, 315 18, 921, 354 12, 830, 093 22, 653, 317 36, 055, 860 15, 242, 707	158, 439, 201 11, 289, 686 8, 462, 977 53, 661, 910 7, 561, 965 10, 532, 885 16, 102, 796 28, 217, 458 22, 659, 604	1. 2 26. 6 34. 4 8. 6 -13. 6 10. 4 -25. 0 -29. 8 -5. 4 9. 5	160. 6 187. 5 254. 0 130. 9 174. 6 248. 0 72. 4 135. 5 150. 0 205. 2
Woolen suitings, over- coatings, and dress goods. Connecticut. Maine. Massachusetts. Now Hampshire. New Jersey. New York. Pennsylvania. Rhode Island. All other states	117, 469, 170 12, 458, 551 15, 005, 437 35, 722, 047 23, 350, 645 5, 153, 407	139, 915, 929 16, 992, 673 20, 271, 891 44, 880, 286 12, 648, 078 9, 983, 938 5, 883, 777	h .	84, 641, 705 8, 809, 612 12, 401, 175 29, 366, 745 8, 455, 368 4, 841, 944 4, 365, 790 2, 656, 590 4, 955, 093	4, 427, 304 4 375, 160	244, 338, 307 28, 343, 800 30, 458, 554 71, 705, 530 19, 911, 159 27, 202, 096 9, 358, 303 19, 260, 426 12, 622, 265 25, 476, 174	55, 692, 475 6, 559, 163 7, 390, 057 18, 441, 023 4, 086, 149 3, 677, 452 2, 443, 317 2, 452, 485 3, 100, 099 7, 542, 730	58, 907, 413 7, 355, 134 0, 991, 470 19, 02b, 840, 947 4, 480, 947 4, 222, 487 3, 185, 230 1, 838, 024 2, 600, 703 6, 207, 578	68, 323, 051 6, 511, 776 6, 477, 720 25, 161, 107 2, 120, 255 3, 857, 600 3, 041, 854 3, 158, 426 15, 994, 304	65.3 92.9 63.5 52.8 49.6 106.2 34.3 194.3 66.5	320. 4 285. 4 335. 7 276. 9 344. 4 544. 2 193. 8 947. 9 250. 6 310. 4

¹ A minus sign (-) denotes decrease.

^{*} Exclusive of carpets and rugs and woven felt goods.

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

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

PRODUCT AND STATE.			QUANTITY.					VALUE.		PER CE INCRE. 1909-	NT OF ASE, ¹ 1919.
	1919	1919	1914	1909	1904	1919	1914	1909	1904	Square yards.	Value.
All-wool woven goods—Con. Worsted suitings, over- coatings, and dress goods. Connectieut. Massachusetts. New Hampshire. New Jorsey. New York. Pennsylvania. Rhode Island. All other states.	Pounds. 85, 981, 863 3, 819, 523 31, 585, 025 (2) 7, 188, 959 3, 371, 473 7, 084, 749 22, 929, 981 10, 002, 153	Squareyards. 170, 506, 452 5, 514, 159 71, 577, 594 6, 471, 953 12, 290, 438 42, 532, 115 18, 528, 290	Square yards. 222, 420, 785 6, 351, 180 86, 386, 650 13, 558, 848 29, 361, 290 10, 860, 850 22, 626, 800 41, 538, 522 11, 736, 645	Square yards. 226, 110, 822 7, 973, 637 78, 424, 779 17, 279, 703 21, 886, 943 12, 283, 220 27, 684, 830 48, 586, 917 11, 990, 695	Square yards. 127, 079, 304 3, 078, 079 34, 074, 137 (3) 13, 064, 724 7, 052, 718 19, 526, 954 37, 070, 497 13, 212, 195	\$313, 679, 634 14, 547, 686 114, 229, 407 (2) 38, 652, 557 11, 946, 229 29, 453, 073 77, 497, 081 27, 353, 601	\$141,778,035 5,776,171 53,172,690 5,959,261 17,724,341 7,363,842 16,131,143 29,019,070 6,631,517	\$156, 755, 217. 7, 569, 400 59, 079, 589 7, 204, 249 14, 650, 635 9, 266, 182 18, 930, 947 32, 377, 429 7, 667, 788	\$85, 079, 547 3, 550, 183 27, 463, 600 (a) 5, 385, 502 11, 958, 229 24, 001, 061 6, 863, 888	-21.9 -30.8 -8.7 -10.5 -47.3 -55.6 -12.5 54.5	100. 1 92. 2 93. 3 163. 8 28. 9 55. 5 130. 4 256. 7
Flannels for underwear Massachusetts Pennsylvania All other states	858, 512 302, 500 254, 931 301, 081	1,755,034 722,681 400,488 631,865	2,176,264 336,707 393,964 1,445,593	3,856,353 506,182 796,097 2,554,074	8,710,131 1,349,300 436,723 6,924,108	1, 905, 730 1, 065, 264 241, 616 598, 850	880, 494 158, 169 179, 462 542, 863	1,257,271 207,183 430,876 619,212	2,045,858 439,405 120,696 1,485,757	-54.5 42.8 -49.7 -75.3	51, 6 414, 2 -43, 9 -3, 3
Blankets Pennsylvania All other states		6,073,395 1,697,360 4,376,035	7, 185, 584 2, 134, 723 5, 050, 861	5,638,434 1,424,062 4,214,372	7,414,563 1,395,419 6,019,144	7, 107, 949 2, 097, 377 5, 010, 572	4,521,546 1,812,465 2,709,081	3, 454, 585 1, 153, 048 2, 301, 537	2,793,284 566,465 2,226,819	7.7 19.2 3.8	105.8 81.9 117.7
All other	2, 109, 413 (2) 234, 884 1, 874, 529	3, 126, 744 (2) 383, 341 2, 743, 403	1,000,444 229,663 410,266 360,515	3,197,582 335,541 594,481 2,267,560	3,688,382 630,122 979,950 2,078,310	6, 488, 267 (2) 513, 766 5, 974, 501	884, 231 142, 119 393, 815 348, 297	1,705,069 202,192 378,551 1,124,326	2,197,521 339,215 818,261 1,040,045	-2. 2 -35. 5 21. 0	280, 5 35, 7 431, 4
Union or cotton-mixed woven goods. Connecticut. Maine. Massachusetts. New Hampshire. New York. Pennsylvania Rhode Island. All other states.	34, 593, 951 1, 239, 057 4, 759, 291 10, 287, 549 2, 205, 432 208, 606 5, 847, 796 (3) 10, 046, 220	48, 436, 883 1, 472, 914 6, 485, 185 18, 831, 530 3, 207, 439 277, 288 8, 811, 766 (4) 14, 350, 763	46, 295, 357 1, 775, 642 1, 339, 816 18, 264, 936 4, 717, 530 1, 356, 536 9, 883, 044 696, 642 8, 261, 211	37, 453, 351 2, 188, 484 3, 996, 585 10, 236, 836 5, 010, 181 549, 526 5, 104, 428 1, 996, 140 8, 391, 171	63, 197, 407 4, 178, 500 6, 224, 365 13, 401, 999 (a) 4, 830, 873 14, 026, 477 4, 030, 440 16, 504, 753	50, 108, 499 2, 035, 439 6, 049, 333 11, 591, 031 3, 504, 314 608, 346 10, 636, 908 (2) 15, 683, 128	16, 526, 158 1, 054, 369 4, 004 6, 143, 131 1, 307, 794 380, 294 3, 321, 235 429, 818 3, 425, 513	14, 327, 973 1, 105, 667 1, 919, 118 3, 332, 690 1, 651, 492 232, 103 2, 070, 669 1, 044, 706 2, 971, 523	26, 288, 407 1, 813, 505 3, 195, 958 5, 193, 788 (3) 1, 972, 886 5, 797, 114 2, 281, 317 6, 033, 779	29. 3 -32. 1 62. 3 35. 1 -36. 0 -49. 5 72. 6	249.7 84.1 215.2 247.8 112.2 162.1 413.7
Cotton - mixed suitings, overcoatings, and dress goods. Connecticut. Maine Massachusetts New Hampshire. Pennsylvania. Rhode Jsland. All other states.	22, 312, 992 1, 239, 057 1, 887, 820 7, 025, 642 1, 331, 668 5, 162, 604 (2) 5, 666, 201	29, 274, 001 1, 472, 914 1, 853, 369 9, 148, 004 1, 574, 108 7, 846, 214 (2) 7, 379, 392	5, 545, 059	27, 518, 766 2, 168, 484 3, 645, 794 6, 405, 030 3, 973, 788 4, 448, 781 1, 890, 140 4, 986, 669	52, 166, 903 3, 823, 808 4, 396, 706 10, 404, 973 (\$) 12, 853, 980 3, 708, 784 16, 978, 652					6, 4 -32, 1 -49, 2 42, 8 -60, 4 76, 4	178.6 84.1 25.4 215.5 24.8 448.3
All other Connecticut Maine Massachusetts New Hampshire Pennsylvania All other states	12, 280, 959 2, 871, 471 3, 261, 907 873, 764 685, 192 4, 588, 625	0,987,653	14, 895, 275 306, 000 203, 360 6, 302, 786 1, 010, 384 3, 000, 057 4, 072, 688	350, 791 3,831,806 1,036,393 655,577 4,060,028	11,030,504 354,692 1,827,659 2,997,026 (3) 1,172,497 4,678,630	3, 804, 258 3, 804, 258 3, 583, 454 1, 711, 218 800, 169 6, 999, 240	4,815,548 101,587 70,923 1,823,277 311,033	2, 407, 017 128, 195 794, 516 214, 559	2,957,327	92. 9 1,220. 4 29. 6 57. 6 47. 3 71. 6	602. 0 2, 867. 6 351. 0 697. 6 189. 3 604. 8
Cotton-warp woven goods Connecticut Maine Massachusetts New Hampshire. Now Jersey New York. Pennsylvania Rhode Island. All other states	79, 509, 148 8, 916, 078 8, 836, 535 35, 580, 709 4, 993, 556 2, 091, 315 3, 506, 202 9, 858, 774 4, 428, 357 6, 297, 562	161, 527, 575 5, 383, 792 20, 354, 344 84, 582, 352 7, 657, 163 2, 173, 221 6, 049, 547 16, 902, 521 9, 024, 605 8, 400, 030	196, 338, 343 6, 596, 131 22, 981, 650 87, 653, 109 13, 508, 725 3, 627, 321 7, 798, 270 16, 459, 483 14, 854, 704 22, 858, 950	210, 452, 401 4, 397, 416 14, 591, 748 104, 303, 227 7, 904, 757 2, 977, 585 6, 515, 625 30, 735, 962 20, 782, 229 18, 153, 851	182, 135, 011 5, 904, 201 12, 164, 400 87, 766, 935 (3) 7, 616, 767 3, 308, 766 19, 452, 881 12, 059, 420 33, 861, 647	118, 176, 471 2, 872, 054 14, 223, 880 57, 665, 451 6, 509, 014 2, 573, 739 5, 720, 220 14, 483, 575 6, 452, 222 7, 676, 316	48, 862, 324 2, 341, 717 6, 651, 815 19, 504, 230 2, 811, 258 1, 438, 506 2, 090, 211 4, 945, 396 5, 033, 560 4, 045, 625		50, 092, 572 1, 574, 045 4, 508, 649 21, 834, 123 (3) 2, 348, 135 1, 108, 174 4, 958, 927 5, 762, 303 7, 998, 216	-23. 2 22. 4 39. 5 -18. 9 -4. 2 -27. 0 -7. 2 -45. 0 -56. 6 -53. 7	89.6 128.8 194.3 132.0 241.9 105.3 153.6 36.9 -32.9 32.7
Wool-filling sultings, over- coatings, and dress goods. Connecticut. Maine. Massachusetts. New Hampshire. Pennsylvania. All other states. Worsted-filling sultings,	23,771,643 546,422 1,941,399 9,079,701	39, 146, 902 653, 683 3, 352, 205 16, 118, 039 3, 898, 650	1	60, 236, 428 2, 171, 126 2, 244, 167 22, 610, 651 5, 142, 98 13, 368, 893 14, 699, 503		34, 735, 320 744, 075 2, 810, 550 14, 057, 057 3, 192, 001 4, 630, 851 9, 300, 786	13,598,007 1,019,521	17 001 017	16 506 500	-35. 0 -69. 9 49. 4 -28. 7 -24. 2 -63. 8 -30. 0	122, 4 32, 8 296, 4 161, 5 195, 3 15, 0 140, 3
overcoatings, and dress goods. Massachusetts. New York. Peunsylvania. Rhode Island. All other states. Satinets and linseys. Massachusetts. All other states.	587,564 3,146,327 2,636,006	8,878,198 4 760 645	56, 763, 091 26, 075, 033 4, 300, 447 8, 816, 213 9, 545, 888 8, 025, 510 8, 518, 686 6, 857, 360 1, 661, 326	15, 725, 718 5, 290, 568 5, 102, 460	8, 170, 174	45, 342, 581 24, 751, 780 2, 240, 548 6, 835, 827 4, 694, 776 6, 819, 641 3, 671, 389 2, 904, 031 767, 358	0,070,402	912, 182 606, 202	4, 077, 233	-38, 8 -42, 0 -48, 6 -39, 1 -60, 1 67, 8 -6, 5 -3, 2 -20, 5	51. 1 85. 1 68. 9 30. 4 -36. 6 156. 5 302. 5 379. 1 150. 8
Domett flannels and shirtings. Maine. Massachusetts. New Hampshire. All other states. Cotton-warp blankets. Maine. Massachusetts. Pennsylvania. All other states.	11, 780, 531 1, 589, 188 3, 964, 000 1, 084, 176 5, 148, 158 7, 656, 079 (2) 1, 218, 298 3, 507, 816	22, 223, 880 3, 415, 918 6, 720, 072 2, 416, 423 9, 671, 467 9, 291, 696 (2)	16, 097, 419 2, 046, 588 2, 882, 803 5, 728, 402 5, 439, 626 18, 139, 720 3, 460, 409 2, 837, 664 930, 128	4,571,765 881,732 794,799 70,000 2,825,234 0,853,161 1,743,092 1,547,934 3,398,778	4, 285, 838 1, 719, 849 (8) 2, 565, 989	11, 600, 377 2, 241, 961 3, 853, 342 1, 608, 829 3, 896, 245 7, 390, 560 (4) 1, 363, 278 2, 307, 511	2,814,904 350,337 459,888 1,100,558 904,121	911, 967 211, 616 136, 605 25, 500 538, 246	769, 476 426, 274 (3) 343, 202 2, 250, 089 684, 878 853, 219 359, 682	386. 1 287. 4 745. 5 3,352. 0 242. 3 -5. 7	1, 172. 0 959. 4 2, 720. 8 6, 209. 1 623. 9 169. 5 481. 4 264. 0

A minus sign (—) denotes decrease.
 Included in "All other states" to avoid disclosing individual operations.
 Figures not available; included in "All other states."

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

PRODUCT AND STATE.			QUANTITY.				v	ALUE.		PER CENTRO INCREA 1909-1	VT OF .SE, ¹ 919.
	1919	1919	1914	1909	1904	1919	1914	1909	1904	Square yards.	Value.
Cotton-warp, woven goods—Continued. All other	Pounds. 9,078,236 (2) 515,805 8,562,431	Square yards. 28, 198, 665 (2) 672, 110 27, 526, 555	Square yards. 43,309,965 26,181,907 1,856,133 15,271,835	Square yards. 36, 045, 370 10, 478, 986 2, 853, 591 16, 712, 793	Square yards. 25, 236, 327 12, 960, 480 2, 522, 077 9, 753, 770	\$15, 436, 244 (2) 228, 710 15, 207, 534	\$12,280,874 6,894,754 346,188 5,039,932	\$12,132,725 5,110,197 664,774 6,357,754	\$6,728,298 3,443,861 339,230 2,945,207	-21.8 -76.4 64.7	27. 2 -65. 6 139. 2
Carpets and rugs Massachusetts New York Pennsylvania All other states	118, 081, 918 12, 952, 008 45, 947, 226 35, 927, 149 23, 255, 535	52,181,512 6,487,324 19,015,388 17,378,967 9,299,833	66, 340, 274 9, 479, 715 24, 480, 532 24, 103, 422 8, 276, 605	81, 218, 881 10, 236, 887 26, 973, 631 36, 222, 080 7, 786, 283	82, 670, 843 8, 434, 467 22, 559, 873 45, 763, 852 5, 912, 651	110, 151, 089 13, 128, 841 47, 667, 962 36, 217, 914 13, 136, 372	64, 683, 322 10, 482, 775 25, 774, 662 19, 472, 933 8, 952, 952	66, 966, 338 12, 160, 257 25, 477, 756 21, 570, 318 7, 758, 007	56, 861, 775 9, 260, 089 19, 194, 104 23, 650, 927 4, 756, 655	-35.8 -36.6 -29.5 -52.0 19.4	64, 5 8, 0 87, 1 67, 9 69, 3
Wool-felt hats			Dozens. 381,044 68,927 181,620 127,497	Dozens. 590, 957 133, 678 303, 398 153, 881	Dozens. 446, 121 136, 481 158, 585 151, 055 Pounds.	5, 409, 505 2, 292, 906 1, 454, 091 1, 662, 508	1,777,225 378,277 765,208 633,740	3,640,787 1,185,298 1,431,342 1,030,147	2, 290, 070 956, 347 647, 064 686, 659	1	48, 3 93, 4 1, 6 61, 4
Yarns for sale Connecticut. Maine Massachusetts. New Jersey New York. Pennsylvania. Rhode Island. All other states		Pounds. 118, 970, 054 646, 728 1, 409, 216 26, 413, 155 10, 171, 495 2, 956, 341 44, 902, 114 23, 963, 720 8, 507, 285	Pounds. 134, 729, 609 530, 679 1, 232, 570 29, 991, 727 12, 928, 295 1, 901, 221 58, 820, 785 22, 960, 291 6, 364, 041	Pounds. 136, 780, 805 879, 928 1, 477, 369 28, 774, 178 11, 346, 062 1, 241, 041 68, 003, 533 19, 530, 045 5, 528, 658	3122, 390, 693 413, 581 639, 615 19, 015, 889 6, 094, 987 1, 301, 162 68, 903, 501 16, 903, 608 9, 118, 350	237, 971, 867 1, 628, 998 2, 961, 135 54, 062, 420 26, 940, 408 5, 714, 117 72, 010, 808 61, 661, 008 12, 992, 973	86, 705, 240 309, 997 889, 036 20, 753, 500 11, 309, 733 1, 503, 654 28, 631, 446 20, 005, 173 3, 302, 701	95, 274, 599 723, 666 1, 211, 143 23, 231, 053 11, 642, 086 1, 187, 300 34, 548, 848 19, 259, 262 3, 471, 241	3 61, 162, 502 202, 612 489, 102 12, 193, 214 4, 807, 660 944, 754 26, 071, 590 12, 545, 725 3, 817, 905		144. 5 132. 7 131. 4 381. 3 108. 4 220. 2
Woolen Maine. Massachusetts New York. Pennsylvania. Rhode Island. All other states.		28, 959, 769 30, 076 3, 548, 730 659, 339 18, 100, 441 3, 267, 054 3, 354, 129	26, 830, 047 28, 499 1, 936, 411 158, 740 21, 784, 704 703, 946 2, 157, 747	29, 215, 188 16, 779 1, 161, 773 3, 949 25, 664, 665 661, 234 1, 706, 788	43, 734, 328 95, 531 1, 553, 033 (4) 37, 657, 138 1, 339, 608 3, 089, 013	33, 166, 552 59, 609 5, 145, 210 492, 810 16, 001, 051 6, 648, 161 4, 819, 711	9, 008, 978 18, 527 662, 383 79, 608 6, 924, 691 391, 831 931, 938	7, 635, 864 12, 181 455, 448 2, 779 6, 021, 540 368, 165 775, 751	844, 691 1, 293, 495	79, 2 205, 5 16598, 4 29, 5 394, 1 96, 5	389. 4 1029. 7 17633. 4 165. 7 1705. 8 521. 3
Worsted. Maine. Massachusetts. New Jersey. New York. Pennsylvania. Rhode Island. All other states.		74, 385, 846 (2) 20, 477, 164 8, 991, 223 1, 788, 166 18, 685, 148 19, 369, 197 5, 074, 948	86, 998, 805 1, 197, 827 24, 103, 998 12, 718, 906 1, 742, 481 24, 176, 877 20, 224, 819 2, 833, 807	89, 198, 713 1, 353, 845 24, 517, 859 11, 204, 625 1, 237, 092 28, 896, 142 18, 264, 920 3, 724, 230	6 62, 942, 798 366, 715 15, 850, 648 5, 776, 075 1, 301, 162 25, 416, 328 13, 222, 913 1, 008, 957	185, 180, 372 (2) 44, 051, 595 24, 428, 314 4, 957, 735 47, 488, 055 51, 959, 048 12, 295, 625	70, 218, 727 865, 945 17, 626, 009 11, 189, 911 1, 424, 046 18, 664, 351 18, 292, 764 2, 155, 701	80, 820, 775 1, 156, 075 21, 069, 894 11, 565, 331 1, 184, 521 24, 098, 942 18, 634, 773 3, 111, 239	6 44, 490, 176 284, 190 10, 310, 734 4, 656, 244 944, 754 17, 431, 468 10, 551, 022 311, 763	-16. 5 -19. 8 44. 5 -35. 3	109. 1 111. 2 318. 3 97. 1 178. 8 295. 3
Merino Massachusetts Pennsylvania. Rhode Island. All other states.		13, 406, 054 1, 664, 758 8, 116, 525 816, 278 2, 808, 403		14, 011, 362 1, 283, 261 11, 710, 956	12, 914, 512 743, 771 5, 830, 035	16, 180, 614 3, 613, 801 8, 521, 702 1, 647, 361 2, 397, 750	4, 862, 564 1, 511, 984 1, 815, 586 1, 055, 346 479, 048		1,359,378 1,150,011 2,219,128	-30. 7 52. 7 482. 3	7 246.3 7 103.3 7 631.1 1 1008.3
All other. Maine. Massachusetts. New Hampshire. New Jersey. Pennsylvania. Rhode Island. All other states.		2, 218, 385 250, 000 722, 503 115, 665 2, 000 511, 191 617, 026	20, 013 20, 076 7, 516, 076 367, 467	1, 731, 770	318,912	3, 444, 320 271, 760 1, 251, 814 175, 715 1, 000 1, 406, 438 337, 593		32, 641	151, 41	638.	732. 89. 3 4435.
Noils	ł .	00 010 000	24, 449, 227 10, 955, 313 2, 216, 080 2, 188, 370 3, 840, 996	27, 938, 313 11, 250, 153 1, 628, 352	5, 244, 593 940, 338 858, 972 3, 994, 229 3, 319, 117	17 709 009		9, 035, 415 3, 655, 976 588, 740 548, 973 1, 895, 601 1, 819, 094 527, 036	1,517,01 326,73 261,05 1,206,44 1,240,80 470,85	1	97. 208. 157. 9 8. 3 96. 7 212.
Waste Massachusetts New Jersey New York Pennsylvania Rhode Island All other states		31, 035, 630 13, 504, 681 4, 457, 107 2, 612, 247 1, 831, 400 3, 570, 600 5, 059, 505	29, 571, 562 10, 997, 975 4, 066, 348 2, 451, 510 3, 683, 664 5, 177, 162 3, 194, 903	25, 948, 432 8, 013, 437 2, 111, 039 888, 887 5, 260, 513 7, 106, 426 2, 567, 530	22, 378, 230 5, 762, 271 1, 161, 229 852, 243 4, 759, 554 5, 837, 000 4, 005, 933	7, 337, 940 2, 795, 156 1, 612, 041 387, 639 389, 707 1, 621, 021 533, 376	3, 482, 305 981, 282 629, 869 297, 768 430, 303 902, 003 241, 080	528, 799 155, 921 592, 524	818, 838 327, 740 128, 750	2 -49.	5 264. 204. 148. 2 -34. 3 28. 1 116.
All other products Connecticut Maine Massachusotts Now Hampshire New Jersey New York Pennsylvania Rhode Island						95, 502, 900 3, 725, 792 7, 082, 809 24, 471, 707 337, 746 2, 581, 145 13, 223, 819 21, 510, 80 9, 677, 700 12, 891, 140	28, 032, 600 888, 086 1, 698, 011 6, 842, 883 212, 693 703, 340 5, 647, 734 7, 638, 749 766, 923 3, 574, 181	5, 215, 566 6, 192, 317 5, 128, 384	465, 45 591, 094 4, 126, 87 (4) 633, 93 2, 586, 44	3	235. 347. 344. -31. 183. 153. 247. 88.
Contract work Connecticut Maine. Massachusetts New Hampshire. New Jersey New York Pennsylvania Rhode Island. All other states						18, 776, 011 179, 518 375, 974 7, 347, 649 723, 760 1, 253, 676 5, 482, 210 2, 429, 055	3, 493, 383 68, 179 87, 260 1, 419, 930 69, 309 22, 096 268, 279 623, 235 678, 674	1, 462, 318 48, 831 2, 850 257, 212 800, 935 366, 622	19, 18 129, 75 482, 32 (1) 2, 47 2 29, 41 366, 85 138, 82	B	446. 377. 405. 640. 25295. 387. 584. 562.

¹ A minus sign (—) denotes decrease.
2 Included in "All other states" to avoid disclosing individual operations.
3 Figures for Massachusetts, New York, Pennsylvania, and Rhode Island include tops that total 4,773,600 pounds, with combined value of \$2,855,607.
4 Figures not available; included in "All other states."
5 Include and support of the states."

tries.—Table 23 gives a condensed account of the factures, by industries, for the year 1919.

Leading products of wool manufactures, by indus- | leading products, according to value, of wool manu-

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	\$364,896,590	\$700, 537, 482	\$123, 253, 828	\$39, 229, 540	\$6,739,652
Woven goods for personal wear Carpets and rugs Other woven goods (blankets, carriage robes, etc.)	710,466,849 110,151,089 31,338,008	287,030,146 7,591 28,765,972	422,131,592 27,520 1,352,085	110,115,978	161,285 714,012	
Felt goods Wool-felt hats Yarns	37, 843, 349	1,321,234			36,522,115	5,409,505
Waste and noils. All other products. Contract work.	25,040,863 57,659,551 18,776,011	31,837,200 940,381 10,235,571 4,758,495	205, 697, 251 23, 859, 344 33, 841, 352 13, 628, 338	209,521 10,681,168	43,307 31,617 1,733,578 23,626	1,167,882 162,265

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 produced 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 Woolen goods	651,601 2,399,101 1,643,384	\$474, 208 207, 217 925, 062 712, 662 258, 354 64, 816	\$451, 216 182, 485 964, 891 512, 145 275, 642 141, 368	\$314,043 179,541 733,385 443,068 229,451 144,545

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

PRODUCT.	Census year.				FOR USE IN THE SAME ESTABLISHMENT.				
		Total.	For sale.	Total.	Made in woolen mills.	Made in worsted mills.	Made in felt mills.	Made in carpet mills.	
Yarns.	1919 1914	Pounds. 438, 242, 300 441, 796, 406	Pounds. 118,970,054 134,729,609	Pounds. 319, 272, 246 307, 066, 797	Pounds. 195, 460, 171 164, 372, 992	Pounds. 82,584,586 87,174,581	Pounds. 5,955,334 7,581,177	Pounds, 35,272,155 47,938,047	
Woolen Worsted Merino Cotton Recovered wool fiber	1914	226, 616, 131 197, 914, 350 143, 801, 552 182, 712, 432 56, 961, 185 49, 975, 722 10, 863, 432 11, 103, 902	28, 959, 769 26, 830, 047 1 75, 735, 205 2 95, 843, 039 13, 406, 054 10, 522, 363 869, 026 1, 534, 160	197, 656, 362 171, 084, 303 68, 066, 347 86, 869, 393 43, 555, 131 39, 453, 356 9, 994, 406 9, 659, 742	147, 232, 110 118, 309, 523 1, 118, 759 1, 271, 374 40, 819, 384 39, 206, 840 6, 294, 918 5, 585, 255	18, 207, 724 10, 400, 722 61, 350, 377 74, 629, 607 720, 282 154, 360 2, 306, 203 1, 989, 802	4,095,124 6,758,237 714,531 1,860,210 92,150	1,393,285 2,068,435	
Recovered Wool liber	1919 1914	21, 810, 761 41, 258, 722	1,431,839 471,873	20, 378, 922 40, 787, 349	17, 665, 485 39, 616, 226	476, 460 464, 029	1,394,811 707,094	842,166	

 $^{^{\}rm 1}$ Includes 1,349,359 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,

Table 26.—Establishments in Wool Manufactures Doing BLEACHING, DYEING, FINISHING, AND CONTRACT WORK: 1919.

	establishments in Wool manufactures, 1919.						
industry,	Total	Bleaching, print	Doing custom spinning				
	number.	Their own For others.		or weaving.			
United States	1,016	556	47	126			
Woolen and worsted goods	852	481	37	124			
Connecticut Maine. Massachusetts New Hampshire. New Jersey. New York. Ohio. Pennsylvania. Rhode Island.	44 66 182 44 26 39 13 197 88	36 47 119 33 10 25 9 51	1 11 2 1 2 5 7	1 10 30 3 2 5 1 40			
VermontAll other states	18 135	13 93	7	1 18			
Carpets and rugs	75	34	4	2			
Connecticut Massachusetts New Jersey New York Pennsylvania All other states	1 10 5 10 48 1	1 6 4 9 14	1 1 1	i i			
Felt goods and wool-felt hats	89	41	6				
Connecticut Maine. Massachusetts New Jersey New York Ohio Pennsylvania Rhode Island All other states	4 2 17 9 19 3 14 1	2 2 2 11 4 8 2 7 1 4	3 1 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.		NU	MBER.		PER CENT OF INCREASE.1		
KIND.	1919	1914	1909	1904	1909- 1919	1914- 1919	
Woolen cards (sets) ² Wool-combing machines. Spindles. Looms ³ Pickers. Garnett machines	5,835 2,294 5,242,613 77,338 1,223 211	5,382 2,425 5,006,286 76,789 1,392 221	5,555 2,120 4,570,089 73,268 1,565 251	6,142 1,549 4,021,098 66,293 1,812 245	5.0 8.2 14.7 5.6 -21.9 -15.9	8.4 -5.4 4.7 0.7 -12.1 -4.5	

I A minus sign (—) denotes decrease. Includes shoddy cards. 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 MANU	FACTURES.	CTURES. WOOLEN GOODS.		WORSTED GOODS. CARPI			AND RUGS.	FELT GOODS AND WOOL-FELT HATS.	
RIND.	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
Cards, number	8,203 5,835 2,143 225	7,800 5,382 2,153 265	1 4,618 4,503 20 95	3,811 3,753 0 52	2,457 333 2,041 83	2, 521 469 1, 959 93	592 463 82 47	760 465 179 116	536 536	708 695 9 4
Spindles Woolen ² Worsted Cotton	5,242,613 2,201,666 2,988,855 52,092	5,006,286 1,914,691 3,010,145 81,450	1,888,218 1,853,014 20,371 14,828	1,604,881 1,545,195 46,792 12,894	3,087,916 179,536 2,883,132 25,248	3,117,151 229,822 2,838,801 48,528	233,226 135,898 85,312 12,016	246,762 103,948 122,786 20,028	33,258 33,218 40	37,492 35,726 1,766
Mule spinning	681,552	2,485,790 1,815,698 669,926 166	1,764,133 1,761,483 2,700	1,476,095 1,470,489 5,440 106	837, 312 166, 420 670, 892	872,626 208,140 664,486	126,788 118,868 7,920	102,238 102,238	32,947 32,907 40	34,831 34,831
Frame spinning	1,601,602	1,643,583 9,771 1,555,228 78,584	48,432 23,513 12,311 12,608	46,792 8,304 27,560 10,928	1,581,135 1,435,551 23,584	1,485,070 864 1,485,678 48,628	72,572 7,792 57,740 7,040	90,662		1,631 303 1,328
Doubling and twisting	805, 204 90, 733 705, 701 8 8, 860	876, 913 89, 222 784, 991 2, 700	75,648 68,008 5,360 2,220	81,994 66,402 13,792 1,800	695,469 13,116 680,689 1,664	759, 455 20, 818 738, 637	33,866 9,238 19,652 4,976	34, 434 1, 410 32, 124 900	311 311	1,030 592 438
Looms. Wool-combing machines. Pickers. Garnett machines.	85,495 2,294 1,223 211	86,641 2,425 1,392 221	29,894 26 954 126	26,366 20 1,061 127	45,835 2,171 103 29	49,462 2,285 140 38	1 9, 256 85 86 21	6 10, 341 114 89 30	510 12 100 35	472 6 102 26

Sets of cards.
 Includes shoddy cards.
 Encludes 2,072 spindles for doubling and twisting paper stock.

Includes 1,099 looms employed on woven goods, other than carpets and rugs. 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.	Connecti-	Maine.	Massachu- setts.	New Hamp- shire.	New Jersey.	New York.	Pennsyl- vania.	Rhode Island.	Wiscon-	All other states.
All classes: 1919 1914 1909	5, 242, 613 5, 006, 286 4, 570, 089 4, 021, 098	242, 014 202, 793 215, 218 207, 481	289,085 267,923 235,960 210,992	1,750,837 1,760,432 1,431,236 1,118,549	233, 414 217, 180 193, 704 234, 974	352, 576 346, 720 282, 310 220, 486	384, 926 341, 194 320, 937 334, 672	763, 401 746, 593 814, 881 758, 427	742,638 693,201 632,537 489,340	33,620 28,838 36,991 37,398	450, 102 401, 412 406, 315 408, 779
Producing spindles: 1919 1914 1909 1904	4, 437, 319 4, 129, 373 3, 794, 129 3, 457, 211	227, 521 179, 703 193, 456 187, 981	267, 804 243, 716 214, 584 189, 684	1,476,938 1,441,774 1,174,547 960,337	218, 637 201, 180 177, 860 222, 054	286, 904 284, 262 234, 618 184, 533	316, 543 283, 789 269, 749 281, 937	628, 280 602, 276 667, 596 630, 534	565,790 504,213 459,127 379,374	30, 234 25, 396 32, 734 32, 558	418,668 363,064 369,858 388,219
Woolen : 1919 1914 1909 1904 Worsted	2, 110, 933 1, 825, 469 1, 911, 906 2, 169, 416	207, 377 155, 867 168, 536 167, 021	200,756 185,500 161,568 169,560	561,849 480,810 502,678 554,086	143, 571 131, 408 115, 600 178, 630	59,336 50,424 53,106 71,500	153, 475 119, 053 138, 679 153, 343	284, 517 289, 792 318, 166 346, 294	119,718 94,099 124,729 151,860	26, 026 21, 188 25, 974 28, 438	354,308 297,328 302,030 348,684
Worsted— 1919. 1914. 1909. 1904. Cotton—		20, 144 23, 836 24, 920 20, 960	54, 440 53, 780 48, 920 17, 060	891,505 901,492 573,056 349,377	75,066 69,772 61,924 43,424	227, 568 233, 838 181, 512 113, 033	156,028 157,704 123,718 121,554	343,763 310,984 346,630 278,440	446,072 408,796 333,246 227,514	4,208 4,208 6,760 4,120	64,360 60,744 49,760 14,123
1919	43, 232 78, 750 131, 717 98, 190	211,877	12,608 4,436 4,096 3,064	23,584 59,472 98,813 56,874		173, 516	7,040 7,032 7,352 7,040 200,865	1,500 2,800 5,800	1,318 1,152 268,089	24,982	4,992 17,168 25,412
1904 Mule spindles— 1919	2,761,180 2,485,790 2,312,950 2,494,935 2,079,628	161, 064 174, 536 166, 721 207, 377	196, 758 185, 236 161, 304 160, 908	803,787 713,904 561,478 624,780	140,868 125,576 180,010	175,604 154,206 126,300	172,198 155,694 177,603	383,620 432,496 457,140	237,703 218,224 215,920	20,324 26,854 28,058	348, 469 295, 184 302, 582 357, 495
Woolen — 1919 1914 1909 1904 Worsted— 1919	2,079,028 1,815,698 1,886,101 2,140,753	155, 564 168, 536 166, 721 4, 500	196,758 185,236 161,304 159,408	561, 273 477, 904 489, 034 548, 934 242, 514 235, 910	143,371 131,408 115,600 176,370 6,000	50, 424 53, 106 65, 500 120, 380 125, 180	144,945 118,753 128,439 153,343 55,920 53,440	279,708 286,712 316,962 344,864 103,758 96,908	04,099 124,104 151,860 148,480 143,528	20, 324 25, 534 28, 058	348, 469 295, 184 302, 582 345, 695
Worsted— 1919	681, 552 669, 926 423, 393 313, 802	5,500 i	1,500	71,544 53,146	9,460 9,640 3,640	60,800	26,935 23,940	96,908 112,734 108,476	94, 120 64, 060		300
1914 1909 1904 Frame spindles— 1919 1914	3,456 40,320 1,676,139 1,643,583	15,644 18,639	71.046	22,700 673,151 727,870 613,069	69,266 60,312	113,388 108,658	320 320 115,678 111,596	2,800 5,800 244,814 218,656	297, 701 266, 420	5, 252 5, 072	11,500 70,199 67,880 67,276
Cotton— 1919 1914 1909 1904 Frame spindles— 1919 1914 1909 1904 Woolen — 1919 1914 1909 1919 1914 1909 1904 Worsted—	1,481,179 962,276 31,305 9,771	18,920 21,260	58, 480 53, 280 28, 776 3, 998 264	335,557 576 2,816	52,284 42,044 200	113,388 108,658 80,412 58,233 6,200	114,055 104,334 8,530 300	235, 100 173, 394 4, 809 3, 080	240, 903 163, 454 109	5,880 4,500 1,044 864	30,724 5,839 2,144
1909 1904	25,865 28,663 1,601,602 1,555,228 1,327,053	300 15,644 18,336 18,920	264 10, 152 54, 440 53, 780 48, 920	12,744 5,152 648,991 605,582 501,512	2,260 69,066 60,312 52,284	6,000 107,188 108,658	10,240 100,108 104,264 96,783	1,204 1,430 240,005 214,076 233,896	297, 592 205, 268 239, 126	440 380 4,208 4,208 5,440	348 2,089 64,360 60,744 49,760
1904 Cotton— 1919 1914 1909 1904	875,743 43,232 78,584 128,261	20,960	15,560 12,608 4,436 4,096 3,064	296, 231	52,284 39,784	80,412 52,233	97,614	1,500	163,454	4,120	13,823
Doubling and twisting spindles: 1919. 1914. 1909.	805, 294 876, 913 775, 960	14, 493 23, 090 21, 762	3,064 21,281 24,207 21,376	273,899 318,658 256,689	14,777 16,000 15,844	65,672 62,458 47,692	6,720 68,383 57,405 51,188	135, 121 144, 317 147, 285	176,848 188,988 173,410	3,386 3,442 4,257	31,434 38,348 36,457
1904. Woolen' — 1919. 1914. 1909.	563,887 90,733 89,222 110,488	19,500 6,096 14,646 13,550	21,308 5,481 6,807 6,684	158, 212 22, 701 15, 320 24, 033	12,920 1,071 2,476 2,836	35, 953 2, 600	52,735 11,243 3,637 6,665	127,893 21,361 18,294 24,872	8,316 12,076 15,040	1,582 1,722 2,041	20,560 10,282 14,244 14,467
1904. Worsted.— 1919. 1914. 1909.	705,701 784,991 648,050	8,397 8,444 8,212 7,080	16,530 15,800 17,400 14,692 4,778	20,076 246,814 302,438 223,136 131,305	13,706 13,524 13,008 8,520	2,420 63,072 62,458 47,392	7,917 54,236 53,768 41,843	16,317 112,188 126,023 121,591	13,874 168,532 176,912 156,870	1,804 1,720 2,216 2,466	14, 298 21, 152 22, 304 19, 590 5, 162
Cotton— 1919. 1914. 1909. 1904.	8,860 2,700 17,422		*,710	2 4,384 900 9,520 6,831		33,533	3,180 2,904	2 1,572 822 1,380	96,092	2,400	1,800 2,400 1,100
¹ Includes shoddy.				ing paper ster			<u> </u>			1	1 .,

¹ Includes shoddy.

²Includes 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 woolen goods On worsted goods Narrow looms: ³	24,533	21,788	25,031	27, 171
	34,658	35,009	28,796	19, 722
On woolen goodsOn worsted goods	7,338	7,078	8,117	10,933
	9,462	11,572	10,680	8,401
	21	44	41	60

Not including cotton looms.
 Fifty inches reed space and over.
 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	a 77,838	59,612	17,705	21
1914	170,789	57, 282	19,444	63
1909	473,268	54,221	19,006	41
1904	4 76, 789 4 73, 268 66, 293	46, 893	19,334	66
Connecticut:				_
1919	3,358	3,075	282	1
1914	3,240	2,947	293	
1909	3,409	3,145	204	
1904	3,201	2,581	619	1
Maine:				ļ
1919	4,495	3,635	860	
1914	4,533	3,447	1,086	
1909	4,024	2,967	1,057	
1904	3,689	2,993	696	
Massachusetts:			l '	
1919	27,723	19,078	8,644	l I
1914	27,609	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	3,939	145	
1909	4,230	3,743	487	
1904	4,397	3,198	1,199	
New Jersey:	· ·		·	
1919	5,745	5,676	C7	2
1914	5,709	5,620	87	2 2
1909	4,991	4,887	102	2
1904	3,799	3,519	280	
New York:	· '			l
1919	3,174	2,642	522	10
1914	3,182	2,017	523	42
1909	3,035	2,534	475	26
1904	4,156	2,388	1,717	51

Fifty inches reed space or over.

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

¹ Fifty inches reed space or over.

Sets of woolen cards used in the industry, by states.— Table 32 gives the location, by states, of the number of sets of woolen 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	62	84
Lowa	9	17	25	28
Kentucky	27	43	47	83
Maine	539	489	441	456
Maryland	18	27	27	48
Massachusetts	1,679	1,465	1,483	1,667
Michigan	65	40	62	62
Minnesota	49	50	36	34
Missouri	îĩ	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	34	25
Ohio	63	54	54	69
Oregon	37	36	31	29
Pennsylvania	814	821	912.	932
Rhode Island	285	205	305	360
South Carolina	200	1	6	
Tennessee	58	62	82	82
WT. 1	4	10	<u> </u>	12
	146	135	124	127
Vermont	42	27	35	50
Virginia	10	9		2
Washington	24	20	27	21
West Virginia	76	55	84	81
Wisconsin	10	J.	37	01

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

Fifty medies reed space or over.

2 Under 50 inches reed space.

3 Includes 1,099 looms in the carpet and rug industry used on woven goods, other than carpets and rugs.

4 Includes cotton looms.

² Under 50 inches reed space.

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	1,579	17	12	7	12	15	15	14	16
California. Connecticut Delaware Georgia Illinois.	5									1 43 13		2		10 324 2				10 80 3 31 35			7		3	3	8	2
Indiana Iowa Kentucky Maine Maryland	59 9 27 539 18					i i		2		13 2 4 67				45 7 4 375 8				18 94 10								
Massachusetts Michigan Miunesota Missouri New Hampshire	1,679 65 49 11 407	7			i			5	::::: i	266 4 16 85		18	29 17	1,009 44 27 10 267		3		315 17 6 20		12		3	7	1	6	
Now Jersey New York North Carolina Ohio Oregon	624 28 63	18		19	i			5		102			6 1	95 323 1 31 27	4	10		32 138 23 32 9	17			3 1 	4 1	8		12
Pennsylvania Rhode Island Tennessee Utah Vermont			37 1			1 	9	1		5 11 16	1 2 		2 	239 199 28 4 82				521 63 28				5		3	••••	
Virginia Washington West Virginia Wisconsin	10					3 1		2		1 4 17				16 10 4 40				22 16 16								

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 Of domestic manufacture Per cent of total. Of foreign manufacture Per cent of total	32, 2	2,425 566 23.3 1,859 76.7	2,120 480 22.6 1,640 77.4	1,549 386 24.9 1,163 75.1
In worsted mills Of domestic manufacture Of foreign manufacture	647	2,285 477 1,808	1,925 370 1,555	1,312 259 1,053
In woolen mills Of domestic manufacture Of foreign manufacture	7	20 8 12	63 42 21	128 81 47
In carpet mills. Of domestic manufacture. Of foreign manufacture.	1 85	1 120 81 39	132 68 64	109 46 63

 $^{^{\}rm 1}$ 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, are 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.

		NUM	BER.		PER CENT DISTRIBUTION.						
STATE.	1919	1914	1909	1904	1919	1914	1909	1904			
United States	2, 294	2,425	2, 120	1,549	100.0	100.0	100.0	100.0			
Connecticut. Maine. Massachusetts. New Hampshire. New Jersey. New York. Permsylvania. Rhode Island. Wisconsin. All other states.	21 41 862 52 368 157 343 385 11 54	29 32 918 52 349 143 320 522 11 49	52 29 703 52 268 141 354 461 13	37 26 497 24 169 74 377 291 8	0. 9 1, 8 37. 6 2, 3 16. 0 6. 8 14. 9 16. 8 0. 5	1. 2 1. 3 37. 9 2. 1 14. 4 5. 9 13. 2 21. 5 0. 5 2. 0	2. 5 1. 4 33. 2 2. 5 12. 6 6. 7 16. 7 21. 7 0. 6 2. 2	2.4 1.7 32.1 1.5 10.9 4.8 24.3 18.8 0.5			

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

STATE.	NU.	MBER O	f picke	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	129	19	21	22	20		
Maine Massachusetts	92 334	120 352	105 447	135 427	15 46	15 37	18 50	17 43		
New Hampshire	92	111	98	127	9	12	12	17		
New Hampshire New Jersey New York	45	50	80	73	3	1 2	Ĩ			
New York	112	112	112	118	27	25	32	21		
Pennsylvania Rhode Island	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.

Summary of principal materials used.—The quantity and cost of the principal materials used in the 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.		POUN	ms.			COS	3T.		PER CENT CREASE, 119	OF IN- 909-1919.
	1919	1914	1909	1904	1919	1914	1909	1904	Pounds.	Cost.
Total cost					\$685,594,683 217,965,333 447,629,350	\$246,496,666 63,696,042 182,800,624	\$273,438,570 65,651,634 207,786,936	\$197, 489, 306 87, 830, 825 109, 658, 481		
Wool: In condition purchased Woolen goods Worsted goods Domestie Woolen goods Woolen goods Foreign Woolen goods Woolen goods Woolen goods Woolen goods	443, 461, 904 105, 792, 290 387, 669, 614 245, 830, 276 63, 859, 901 181, 971, 185 197, 631, 628 41, 933, 199 155, 698, 429	434, 728, 075 78, 873, 319 355, 854, 756 266, 634, 390 62, 236, 522 204, 397, 868 168, 093, 685 16, 636, 797 151, 456, 888	474, 755, 366 87, 037, 951 387, 717, 415 310, 602, 279 73, 514, 264 237, 088, 015 164, 163, 087 13, 523, 687 150, 629, 400	418, 703, 811 157, 335, 727 261, 368, 084 319, 800, 490 132, 656, 502 187, 143, 988 98, 903, 321 24, 679, 225 74, 224, 096	306, 170, 702 95, 536, 031 210, 634, 671 170, 882, 888 59, 940, 553 110, 942, 335 135, 287, 814 35, 595, 478 99, 692, 336	108, 087, 019 23, 476, 191 84, 611, 428 64, 571, 871 19, 312, 679 45, 259, 192 43, 515, 748 4, 163, 512 39, 352, 236	136, 666, 917 27, 429, 030 109, 237, 887 85, 018, 238 23, 779, 436 61, 238, 802 51, 648, 679 3, 649, 594 47, 999, 085	105, 433, 451 42, 698, 735 62, 734, 716 78, 673, 136 37, 311, 572 41, 361, 564 26, 760, 315 5, 387, 163 21, 373, 152	-6.6 21.5 -12.9 -20.9 -13.1 -23.2 20.4 210.1 3.4	124.0 248.3 92.8 101.0 152.1 81.2 161.9 875.3 107.7
Equivalent in scoured con- dition Woolen goods Worsted goods	263, 836, 462 86, 547, 717 177, 288, 745	257,448,746 58,693,405 198,755,341	290, 706, 970 60, 126, 473 230, 580, 497	241,280,065 102,106,291 139,173,774		······	,		-9. 2 43. 9 -23. 1	********
Mohair, and camel, alpaca, and vicuna hair	13,791,281 1,316,941 12,474,340	14,359,457 2,270,349 12,089,108	7,805,422 1,290,055 6,515,367	6,507,631 1,311,741 5,195,890	9,596,336 1,570,100 8,026,236	4,455,354 613,729 3,841,625	2,399,123 346,034 2,052,489	1,957,581 375,378 1,582,203	76. 7 2. 1 91. 5	300.0 353.0 291.0
Other animal hair	14,489,813 11,296,996 3,192,817	14,761,502 13,928,703 83 2, 799	17,356,100 16,429,808 926,292	22,987,332 22,442,973 544,359	3,050,987 1,649,803 1,401,184	1,062,810 993,554 69,256	932,911 848,178 84,733	1,369,776 1,304,690 65,086	-16.5 -31.2 241.0	227. 0 94. 5 1,553. 6
Cotton	17,375,403 14,629,920 2,745,483	28,387,022 23,915,496 4,471,526	20,024,061 15,801,394 4,222,667	32,613,408 28,279,832 4,333,576	5,952,015 4,781,781 1,170,234	3,241,352 2,531,509 709,843	2,515,409 1,926,419 588,990	4,072,907 3,496,285 576,622	-13. 2 -7. 4 -35. 0	136.6 148.2 98.7
Rags, clippings, etc	46,453,109 45,753,399 699,710	59,425,149 58,745,504 679,555	40, 402, 460 38, 387, 554 2, 014, 900	79,367,290 79,361,946 5,344	11,772,699 11,578,720 193,979	4,754,308 4,717,847 36,461	2,856,968 2,691,458 165,508	5,668,634 5,668,272 362	15.0 19.2 -65.3	312.1 330.2 17.2
Recovered wool fiber Woolen goods Worsted goods	33,163,696 31,410,145 1,747,551	26,276,924 25,960,307 316,617	21,454,187 20,118,305 1,335,882	31,019,456 29,591,899 2,327,557	13,518,853 12,821,342 697,511	3,551,217 3,500,297 50,920	3,058,214 2,835,067 223,147	4,472,666 4,059,651 413,015	54. 6 56. 2 30. 8	342.1 352.2 212.6
Waste and noils of wool, mohair, eamel hair, etc	43,738,241 40,260,627 3,477,614	42,411,874 37,881,087 4,530,787	26, 473, 311 23, 743, 175 2, 730, 136	26,032,838 23,768,963 2,263,875	28,018,729 25,073,536 2,945,193	8,906,485 7,478,656 1,427,829	7,523,283 6,682,902 840,381	8,056,227 5,345,740 710,487	65.2 69.6 27.4	272. 4 275. 2 250. 8
Tops purchased	26, 266, 239 533, 758 25, 732, 481	29,106,307 590,716 28,515,591	20, 828, 245 558, 938 20, 269, 307	9,160,929 198,746 8,962,183	45,449,230 738,326 44,710,904	16,679,819 303,283 16,376,536	14,614,527 412,590 14,201,937	5,073,078 113,464 4,959,614	26, 1 -4, 5 27, 0	211. 78. 214.
Yarnspurchased Woolen Woolen goods Worsted goods	83,984,486 8,361,784 2,172,487 6,189,297	90,925,586 2,168,371 801,270 1,367,101	102,550,361 931,222 338,131 593,091	72,677,847 5,750,088 3,725,110 2,024,978	150,701,646 12,887,478 3,359,995 9,527,483	57,195,198 1,174,815 272,450 902,365	68, 586, 014 558, 270 170, 193 388, 077	1,160,180	((.	2,208. 1,874. 2,355.
Worsted Woolen goods Worsted goods	1	53,626,797 2,617,815 51,008,982	59,148,771 5,821,394 53,327,377	31,047,516 4,278,253 26,769,263	110,456,932 8,368,291 102,088,641	44,660,712 2,112,950 42,547,762	56, 033, 701 5, 576, 492 50, 457, 209	24,904,511 3,431,418 21,473,093	-27. 4 -32. 8 -26. 8	97. 50. 102.
Merino Woolen goods Worsted goods		530,863 479,837 51,026	1,971,709 1,876,073 95,636	2,458,085 1,579,080 879,005	2,185,286 561,712 1,623,574	168,519 145,250 23,269	318,456 264,867 53,589	581,107 270,989 320,118	-18.6 -57.5 743.4	586. 112. 2,929.
Cotton Woolen goods Worsted goods	28,683,645 12,854,825	32,105,412 15,316,551 16,788,861	16, 888, 501	32,598,072 18,878,949 13,719,123	21,077,436 8,850,883 12,226,553	9,076,933 3,601,304 5,475,629	10,492,185 3,855,752 6,036,433	3,827,767	-26.8 -23.9 -29.0	100. 129. 84.
Silk and spun silk	. 84.218	515,950 111,580 404,370	282,536 70,959 211,577	412,307 107,377 304,930	3,283,386 605,681 2,677,705	1,736,028	010,544	1,679,883 364,732 1,315,151	47. 2 18. 7 56. 7	187. 166. 192.
Allother Woolen goods Worsted goods	1,956,609 1,682,374	1,978,193 1,975,073 3,120	1,046,735 1,044,505 2,170	411,779 397,108 14,671	811,128 311,096 500,032	103,33 <u>4</u> 96,940 6,894	40,739 40,550 189	21, 118 18, 141 2, 977	86. 9 61. 1 12, 537. 6	1
Chemicals and dyestuffs					22,870,502 11,392,624 11,477,878	8,536,232 3,517,991 5,018,241	8,820,928 3,370,501 5,450,427	7,456,550 4,632,981 2,823,569		159.3 238.0 110.0
All other materials					68,492,984 30,765,412 37,727,572	30,026,272 6,831,338 23,194,934	25, 464, 278 8, 973, 682 16, 490, 596	18,036,162 10,392,641 7,693,521		

1 A minus sign (-) denotes decrease

Fibers used as materials.—The quantity of 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.

	rou	108.	PER		PER CE	
MATERIAL.	Woolen- goods industry.	Worsted- goods industry.	Wool- en- goods indus- try.	sted-	Wool- en- goods indus- try,	Wor- sted- goods in- dus- try-
Total	203, 133, 831	201, 403, 010	100.0	100.0	50, 2	49.8
Scoured wool (equivalent) Wool waste and noils Recovered wool fiber Purchased Made for consumption Animal hair. Mohair, camel, alpaca, and vieuna noils Cotton	38, 522, 138 49, 081, 630 31, 416, 145	177, 288, 745 3, 300, 640 2, 224, 011 1, 747, 551 476, 460 15, 667, 157 176, 974 2, 745, 483	42. 6 19. 0 24. 2 15. 5 8. 7 6. 2 0. 8 7. 2	88.0 1.6 1.1 0.9 0.2 7.8 0.1 1.4	32.8 92.1 95.7 94.7 97.4 44.6 90.8 84.2	67. 2 7. 9 4. 3 5. 3 2. 6 55. 4 9. 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
	\$306, 170, 702	\$95, 536, 031	\$210, 634, 671
Domestic— Pounds Cost. Foreign—	245, 830, 276	63, 859, 091	181, 971, 185
	\$170, 882, 888	\$59, 940, 553	\$110, 942, 335
Pounds	197, 631, 628	41, 933, 199	155, 698, 429
	\$135, 287, 814	\$35, 595, 478	\$99, 692, 336
Condition of wool purchased: In grease Domestie. Foreign.	Pounds.	Pounds.	Pounds.
	365, 785, 620	36, 735, 257	329,050,363
	198, 012, 031	20, 055, 649	177,956,382
	167, 773, 589	16, 679, 608	151,093,981
Washed	2, 232, 316	2,225,277	4,662,763
Domestic		257,102	1,975,214
Foreign		1,968,175	2,687,549
Scoured	70, 788, 244	66, 831, 756	3, 956, 488
	45, 585, 929	43, 546, 340	2, 039, 589
	25, 202, 315	23, 285, 416	1, 916, 809
Equivalent total: In grease. Domestic. Foreign	510, 616, 887	167, 980, 843	342, 636, 044
	284, 407, 086	101, 044, 016	183, 363, 070
	226, 209, 801	66, 936, 827	159, 272, 974
Scoured	142, 213, 079	86, 547, 717 53, 249, 971 33, 297, 746	177, 288, 748 88, 963, 108 88, 325, 637

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

TABLE TO: 11000										
		1919			1914			1909		Per cent
PRODUCT,	Total.	Woolen- goods industry.	Worsted- goods industry.	Total.	Woolen- goods industry.	Worsted- goods industry.	Total.	Woolen- goods industry.	Worsted- goods industry.	crease,1 1909- 1919.
Total value	2 \$1, 065,434,972	\$364,898,590	\$700, 537, 482	² \$379,484,379	\$103,815,905	\$275,668,474	2\$419,743,521	\$107,118,858	\$312,624,663	153.8
Woven goods: 3 Pounds Square yards. Value.	332, 208, 704 535, 937, 572 \$780, 279, 795	207,280,978 253,621,026 \$315,796,118	124, 927, 726 282, 316, 546 \$423, 483, 677	(4) 565, 462, 159 \$268, 679, 480	(4) 228, 562, 987 \$89, 683, 731	(4) 336, 899, 172 \$178, 995, 749	(4) 570,743,797 \$296,447,594	(4) 215,673,405 \$95,239,754	(†) 355,070,392 \$201,207,840	-6.1 149.4
All-wool woven goods: Pounds. Square yards. Value. Woolen suitings, overcoatings,	211,074,296 326,714,779 \$572,043,595	116,793,743 134,099,416 \$216,865,158	94, 280, 553 192, 615, 363 \$355, 178, 437	323,037,563 \$203,390,017	85,565,208 \$53,056,310	237, 472, 355 \$150, 333, 707	322,941,365 \$219,853,767	91,526,966 \$58,966,651	231, 417, 399 \$160, 887, 116	1.2 160.2
and dress goods— Pounds Square yards Value. Worsted suitings, overcoatings,	117, 149, 070 139, 410, 352 \$243, 072, 041	106,089,121 119,523,723 \$194,602,522	11,059,949 19,886,629 \$48,469,519	90,950,381 \$55,660,503	74, 220, 650 \$45, 444, 007	16,729,731 \$10,216,498	84,641,705 \$56,907,418	74, 292, 529 \$48, 524, 619	10,349,176 \$8,382,794	64.7 327.1
and dress goods— Pounds Square yards Value Flannels for underwoar—	85,981,863 176,506,452 \$313,679,634	2,964,328 4,348,267 \$9,172,426	83,017,535 172,158,185 \$304,507,208	222,420,785 \$141,778,035	2, 508, 763 \$2, 137, 030	219,912,022 \$139,641,005	226, 110, 822 \$156, 755, 217	7,249,428 \$5,760,731	218, 861, 394 \$150, 994, 486	-21,9 100.1
Pounds Square yards Value	825,886 1,733,250 \$1,860,585	825, 886 1, 733, 250 \$1, 860, 585	(5) (E) (5)	2,176,264 \$880,494	2, 176, 264 \$680, 494		3,856,353 \$1,257,271	3,399,913 \$952,978	456, 440 \$304, 293	-55.1 48.0
Blankets— Pounds Square yards Value Horse blankets—	4,975,438 5,916,197 \$6,897,923	4, 953, 831 5, 896, 557 \$6, 837, 897	21,607 19,640 \$60,026	6,489,689 \$ 4,186,754	5, 786, 215 \$3, 848, 893	(4) 703,474 \$342,861	\$3,228,797	4, 402, 330 \$2, 563, 019	735, 573 \$665, 778	15.1 113.6
Pounds	. 387, 926	216, 024 387, 926 \$648, 990		(4) 102, 205 \$82, 398	(4) 102, 205 \$82, 398		247, 395 \$185, 430	247, 395 \$185, 430		50.8 250.0
Pounds Square yards Value Carriage robes—	. 687, 241	587, 041 687, 241 \$1, 371, 356	(5) (5) (6)	(4) 514, 226 \$443, 223	(1) 514, 226 \$443, 223	(6) (6)	1,782,855 \$947,862	1,246,423 \$623,981	536, 432 \$323, 881	-61.5 44.7
Pounds	(5) (5) (6)	(5) (5) (4)		(†) 132, 399 \$ 158, 900	(4) 132,399 \$158,900	(4) (6) (5)	(1) 85,179 \$17,642	(4) 85,179 \$17,642		
Pounds Square yards Value.	. 590,667 868,971 \$854,041	590,667 868,971 \$854,041		(4) 124, 486 \$66, 365	(1) 124,486 \$66,365	(4) (5) (5)	(4) 704, 153 \$404, 583	(4) 603, 769 \$338, 251	(4) 100, 384 \$66, 332	23.4 111.1

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 \$8,504,372 in 1919, \$1,500,567 in 1914, and \$1,902,187 in 1909 were made by earpet and rug and felt-goods mills.
2 Does not include woven upholstery goods.
3 Not reported in 1914 and 1909,
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.

		1919			1914			1909		Per cent
PRODUCT.	Total.	Woolen- goods industry.	Worsted- goods industry.	Total.	Woolen- goods industry.	Worsted- goods industry.	Total.	Woolen- goods industry.	Worsted- goods industry.	of in- crease, ¹ 1909- 1919.
All-wool woven goods—Continued.										
Pounds. Square yards Value	748, 307 1, 204, 390 \$3, 659, 025	506, 845 653, 481 \$1, 517, 341	181, 462 550, 909 \$2, 141, 684	(2) 127, 128 \$133, 345		(2) 127, 128 \$133, 345	378,000 \$149,552		378,000 \$149,552	218.6 2,346.7
Cotton-warp woven goods: 3 Pounds	79, 429, 188 161, 445, 850 \$118, 137, 626	51, 930, 001 77, 619, 601 \$57, 495, 230	27, 499, 187 83, 826, 249 \$60, 642, 396	(*) 196, 179, 866 \$48, 816, 015	(2) 102,930,421 \$22,692,131	93, 249, 445 \$26, 123, 884	(\$) 210, 346, 081 \$62, 265, 854	(2) 90,351,206 \$23,563,020	(2) 119, 994, 875 \$38, 702, 834	-23.2 89.7
oostings, and dress goods— Pounds. Square yards. Value.	23,771,643 39,146,902 \$34,735,320	22,738,473 37,100,656 \$31,508,800	1,033,170 2,046,246 \$3,226,520	(*) 53, 509, 462 \$13, 598, 007	(1) 48,284,320 \$11,878,272	(2) 5,225,142 \$1,719,735	(*) 60,230,428 \$15,621,015	(3) 58,313,577 \$14,523,051	(1) 1,922,851 \$1,097,364	-35.0 122.4
Worsted-filling suitings, over- coatings, and dress goods-										
Pounds	21,300,561 57,896,787 \$45,342,581	1, 214, 980 2, 659, 716 \$2, 046, 678	20,085,581 55,237,071 \$43,295,903	56, 763, 091 \$15, 563, 099	2,696,072 \$665,342	54,067,019 \$14,897,757	94, 643, 217 \$30, 003, 046	3,961,730 \$1,413,950	90, 681, 487 \$28, 589, 096	-38.8 51.1
Square yardsValueLinings, Italian cloth, and	11,780,531 22,223,880 \$11,600,377	11,409,777 21,183,496 \$10,596,709	370,754 1,040,384 \$1,003,668	(2) 16, 092, 266 \$2, 814, 054	(2) 16,092,266 \$2,814,054	(2) (4) (4)	(*) 4,571,765 \$911,967	(1) 4,571,765 \$911,967		386.1 1,172.0
	595, 222 742, 562 \$532, 411	595, 222 742, 562 \$532, 411		(2) 36,196,243 \$9,804,661	(2) 2,355,141 \$312,889	(3) 33,841,102 \$9,491,772	(2) 28,928,148 \$9,008,709	(2) 2,413,630 \$241,335	(2) 26,514,518 \$8,767,404	-97.4 -94.1
Pounds. Square yards. Value. Satinets and linseys— Pounds. Square yards. Value	5, 863, 838 4, 637, 678 \$3, 517, 427	5,863,838 4,637,678 \$3,517,427	(3)	(*) 8,415,079 \$1,535,291	(2) 8,415,079 \$1,535,291	(2) (4) (4)	(2) 5,102,460 \$912,182	(1) 5,102,460 \$912,182		-0.1 285.0
Blankets— Pounds. Square yards. Value Horse blankets— Pounds. Square yards. Value. Carriage robes— Pounds, Square yards. Value. All deber—	7,603,761 9,244,134 \$7,289,253	7,003,761 9,244,134 \$7,289,253	98	(2) 17,973,821 \$3,010,070	(2) 17,973,821 \$3,010,070	(\$) (\$) (\$)	(1) 9,746,841 \$2,684,919	(2) 8,903,680 \$2,505,409	(2) 843, 161 \$179, 510	_5. 2 171. 5
Horse blankets— Pounds Square yards. Value	1,448,015 1,307,789 \$957,427	1,448,015 1,307,789 \$957,427		(*) 5,831,305 \$1,539,526	(1) 5,831,305 \$1,539,526		(2) 4,210,098 \$1,676,942	(3) 4,107,932 \$1,674,509	(2) 12,166 \$2,433	68.9 42.9
Carriago robes— Pounds, Square yards	1,055,935 743,570 \$1,046,525	1,055,935 743,570 \$1,046,625		(2) 1,282,417	(2) 1,282,417 \$936,687		(2) 2,889,444 \$1,306,595	(2) 2,882,171 \$1,376,595	(2) 7,273 \$20,000	-74.3 -25.1
Value All other— Pounds Square yards	6,009,682 25,502,548 \$13,116,305	\$1,040,020	6,009,682 25,502,548	\$936, 687 (2) 116, 182	\$930, 087	}	(2) 17,680	(2) 4,261 \$3,422	(2) 13,419	
Pounds. Square yards. Value Union or cotton-mixed woven goods:	İ		\$13,116,805	\$14,620			\$50,389	\$3,422	\$46,967	25,930.1
goods: Pounds. Square yards. Value. Cotton-mixed suitings, over- coatings, and dress goods— Pounds. Square yards. Value Flaunels for underwear— Pounds	41,705,220 47,776,943 \$49,098,574	38,557,234 41,902,000 \$ 41,435,730	3,147,980 5,874,934 \$7,662,844	46, 244, 730 \$16, 473, 448	40,067,358 \$13,935,200		37,453,351 \$14,327,973	33, 795, 233 \$12, 710, 083	3,658,118 \$1,617,890	27.0 242.7
Pounds Square yards Value Flaunels for underwear	19,497,282 24,615,373 \$26,045,387	17,643,021 22,046,401 \$23,507,042	1,854,261 2,568,972 \$2,538,345	31,400,082 \$11,710,610	28,549,109 \$10,243,869	\$1,466,741	27, 518, 756 \$11, 920, 956	H	\$1,614,890	ii .
Pounds Square yards Value Blankets—	2,610,419 6,497,990 \$5,205,330	2,610,419 6,497,990 \$5,205,330	(*) (*)	4,995,575 \$1,089,661	4,995,575 \$1,089,661		7,063,572 \$1,308,369			—8.0 297.8
Pounds Square yards Value	7,459,554 9,922,925 \$8,616,905	7, 459, 554 9, 922, 925 \$8, 616, 905	(4) (4) (4)	3,937,463 \$2,067,934	3,937,463 \$2,067,934		1,717,758 \$650,714	1,717,758 \$650,714		477.7 1,224.2
Horse blankets— Pounds Square yards Value				2, 231, 162 \$395, 858	2,231,162 3395,858	(2) (4) (4)	(2) 694,176 \$186,238	(2) 694,176 \$186,238		
Carriage robes— Pounds. Square yards. Value. All other—	l.	699, 016 553, 869 \$861, 820		(2) 354, 049 \$137, 968	(2) 354, 049 \$137, 968	(2) (4) (4)	(2), 459,089 \$261,698	(2) 449,089 \$258,696	(2) 10,000 \$3,000	20.6 229.3
Pounds Square yards Value	. 6,186,786	10,145,224 2,880,824 \$3,244,633	1,293,725 3,305,962 \$5,124,499	3,326,399 \$1,071,417		3,326,399 \$1,071,417				
Upholstery goods and sundries, value Woolens, worsted, and mohair upholstery goods—	\$8,481,633	\$352,362	\$8,129,271	\$2,042,029	\$1,543,881	\$498,148	\$1,986,330	\$1,121,499	\$804,831	327.0
Pounds. Square yards. Value. All other, value.	. \$3,944,134	II 5 344.362	2,498,879 4,069,685 \$3,599,772 \$4,529,499	1,598,444 \$1,809,474 \$232,555	1,351,262 \$1,539,381 \$4,500		1,176,542 \$1,528,648 \$457,682 h cotton filling	(3) 681,272 \$1,121,499	(2) 495, 270 \$407, 149 \$457, 682	276. 5 158. 0 891. 4

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

Includes woolen and cotton warps with cotton filling.
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.

		1919			1914			1909		Per cent
PRODUCT.	Total.	Woolen- goods industry.	Worsted- goods industry.	Total.	Woolen- goods industry.	Worsted- goods industry.	Total.	Woolen- goods industry.	Worsted- goods industry.	erease,1 1909- 1919.
Yarns for sale: Pounds, Value. Woolen—	118, 309, 923 \$237, 534, 451	32,585,513 \$31,837,200	85,724,410 \$205,697,251	132, 559, 701 \$85, 872, 215	33, 416, 266 \$9, 255, 625	99,143,435 \$76,616,590	134,051,361 \$94,541,753	34, 952, 665 \$8, 192, 183	99, 098, 696 \$86, 349, 570	11.7 151.2
Pounds Value	28, 387, 039 \$32, 828, 522	21, 708, 444 \$23, 760, 259	6,680,595 \$9,068,263	25, 125, 575 \$8, 783, 020	18, 723, 346 \$6, 344, 824	7,402,229 \$2,438,196	28,520,493 \$7,505,412	22,087,764 \$5,396,612	6,432,729 \$2,108,800	-0.5 337.4
Worsted— Pounds Value	74, 336, 549 \$185, 124, 293	134,172 \$53,071	74, 202, 377 \$185, 071, 222	86, 412, 097 869, 801, 271	\$40,585 \$400,736	85,571,512 \$69,400,535	88,323,953 \$80,395,543	423,000 \$343,931	87,900,953 \$80,051,612	-15.8 130.3
Woolen, union or merino— Pounds Valuo,	9, 150, 149 \$6, 808, 543	8,770,901 \$6,101,512	379,248 \$707,031	6, 473, 849 \$1, 689, 530	6,473,849 \$1,689,530		10, 249, 625 \$2, 143, 416	10, 133, 715 \$2, 099, 087	115,910 \$44,329	-10.7 217.6
Worsted, union or merino— Pounds Value	4, 217, 801 \$9, 328, 764	887,993 \$821,874	3,329,808 \$8,507,390	4, 048, 514 \$3, 173, 034		4,048,514 \$3,173,034	3,761,737 \$3,522,812	50,000 \$30,000	3,711,737 \$3,492,812	12. 1 164. 8
All other— Pounds Value	2, 218, 385 \$3, 444, 329	1,088,003 \$1,100,984	1,132,382 \$2,343,345	9, 499, 666 \$2, 425, 360	7, 378, 486 \$820, 535	2,121,180 \$1,604,825	3,105,553 \$974,570	2, 258, 186 \$322, 553	937, 307 \$652, 017	30, 6 253, 4
Worsted tops and slubbing: PoundsValue Noils:	9, 899, 257 \$14, 503, 006		9,899,257 \$14,503,006	8,985,170 \$4,926,929		8,985,170 \$4,926,929	11,321,279 \$8,027,231		11, 321, 279 \$8, 027, 231	-12.6 80.7
PoundsValue	24, 054, 141 \$17, 809, 446	205,855 \$134,586	23, 848, 286 \$17, 674, 860	23, 961, 100 \$6, 819, 690	91,867 \$23,901	23,869,233 \$6,795,789	27, 479, 293 \$8, 938, 589	335,011 \$70,352	27,144,282 \$8,868,237	-12.5 99.2
Waste: PoundsValue	28, 029, 816 \$6, 990, 279	10,004,783 \$805,795	17, 965, 033 \$6, 184, 484	26, 433, 970 \$3, 320, 447	5,769,336 . \$232,438	20,664,634 \$3,088,009	24,420,444 \$3,534,761	3,994,358 \$200,691	20, 426, 086 \$3, 334, 070	14.8 97.8
All other products, value	\$22, 448, 629 \$18, 336, 833	\$11, 212, 034 \$4, 758, 495	\$11,236,595 \$13,628,338	\$4, 386, 953 \$3, 436, 636	\$2,497,119 \$579,210	\$1,889,834 \$2,857,426	\$3,241,008 \$3,026,255	\$1,728,993 \$565,386	\$1,512,015 \$2,460,869	592. 6 507. 6

¹ A minus sign (-) denotes decrease.

Machinery.—The machinery used in the woolengoods and worsted-goods industries in 1919 and 1914 is shown in Table 41 according to kind and account.

quantity for each. Only such machinery as would indicate the progress of these industries is taken into

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

	Cen-	Total.	Woolen.	Worsted.	Shoddy.	Cotton.		Cen-		AMER	ICAN.	FORE	ign,
	year.							sus year.	Total.	English or Brad-	Other.	English or Brad-	Other.
Cards, number	1919 1914	7,075 6,332	1 4, 675 4, 014	2,061 1,965	161 208	178 145				ford.	Other.	ford.	
Spindles	1919 1914	4, 976, 129 4, 722, 032	2, 019, 553 1, 747, 561	2,903,503 2,885,593	12, 997 27, 458	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	186	Pickers	1919 1914	1,057 1,201		 		
Frame spinning	1919 1914	1,603,567 1,531,862	22, 937 9, 168	1,543,862 1,463,238	. 576	36, 192 59, 456	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	² 1919 ³ 1914	75, 729 75, 828	30, 428 27, 295	43, 704 46, 589	512 1, 102	1,085 842							

Sets of cards.
 In addition, in 1919, \$58 looms were employed by carpet and rug establishments on woolen and worsted woven goods.
 In addition, in 1914, 36 looms were employed by carpet and rug establishments on woolen and worsted woven goods.

CARPETS AND RUGS.

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, on page 260 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.

		FLOO		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.	carpets.	Mats and mat- ting.	Oilcloth and lino- leum, floor,
Number of establishments	447	75	339	12	21	16.8	75.8	2.7	4.7
Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number).	34, 394 451 2, 507 31, 436	24, 251 50 1, 268 22, 933	2,716 391 309 2,016	1,173 7 93 1,073	6, 254 3 837 5, 414	70.5 11.1 50.6 73.0	7.9 86.7 12.3 6.4	3.4 1.5 3.7 3.4	18.2 0.7 33.4 17.2
Primary horsepower	66,023 \$179,044,224	38, 170 \$119, 196, 461	2,674 \$2,853,400	1,670 87,190, 675	23,509 \$49,803,688	57.8 66.6	4.1 1.6	$\frac{2.5}{4.0}$	35.6 27.8
Salaries and wages		28, 965, 905 4, 749, 784 24, 216, 121	1, 934, 371 383, 870 1, 550, 501	1,040,251 229,644 810,607	8, 297, 546 1, 779, 457 6, 518, 089	72.0 66.5 78.2	4.8 5.4 4.7	2.6 3.2 2.4	20.6 24.9 19.7
Paid for contract work Rent and taxes (including internal revenue) Cost of materials Value of products ² . Value added by manufacture ³ .	138, 253 6, 474, 246 101, 627, 196 186, 384, 946 84, 757, 750	86,710 3,984,671 67,118,039 123,253,828 56,135,789	39, 936 139, 521 2, 037, 874 5, 597, 057 3, 559, 183	3,803 225,977 2,102,580 4,860,855 2,758,275	8,298 2,124,077 30,368,703 52,673,206 22,304,503	62.7 61.5 66.0 66.1 66.2	28.9 2.2 2.0 3.0 4.2	2.4 3.5 2.1 2.6 3.3	6. 0 32. 8 29. 9 28. 3 26. 3

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

7 In addition, jute carpets and rugs, to the value of \$1,000,677, were reported by manufacturers of jute goods.

7 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 ,9 47 ,954
Wool:				
In condition purchased— Pounds————————————————————————————————————	36, 261, 904	52, 552, 449	64, 135, 020	51,320,521
	\$13, 258, 069	\$10, 493, 748	\$11, 752, 396	\$10,431,140
Equivalent of above in scour- od condition, pounds Animal hair:	21,905,916	39, 218, 831	51, 474, 853	31,551,89
Pounds	6,272,522	3,460,283	5,400,944	6,805,80
	\$1,847,332	\$402,225	\$474,057	\$593,58
Cotton: Pounds Cost	3, 864, 826	3,802,789	5,147,130	1,997,36
	\$1, 426, 110	\$343,916	\$533,302	\$251,11
Waste and noils: Pounds Cost	560, 664	3,419,715	2,732,034	2,172,48
	\$130, 290	\$476,610	\$513,392	\$341,30
Yarns, purchased: Woolen—				
Pounds	17,389,590	21,626,360	25,718,747	32,431,40
Cost.	\$11,337,800	\$5,821,848	\$5,036,118	\$6,648,00
Worsted—	4, 164, 565	9, 267, 278	11,292,749	11,355,99
Pounds————————————————————————————————————	\$4, 479, 898	\$4, 592, 906	\$5,588,915	\$5,405,07
Cotton— Pounds Cost	17,309,949	24,619,137	26, 166, 241	27,421,88
	\$8,972,787	\$4,637,673	\$4, 772, 594	\$4,757,88
Linen— Pounds. Cost. Jute, ramie, and other vege-	2,280,055	7,602,200	8,792,876	8,228,20
	\$1,062,197	\$1,414,924	\$1,606,009	\$1,355,80
table fibers— Pounds Cost	45,119,812	59, 148, 266	55,592,343	49, 119, 58
	\$9,399,764	\$6, 040, 186	\$3,926,694	\$3, 404, 51
Other yarns— Pounds Cost	921,655	341, 114	781,028	1, 112, 13
	\$1,788,833	\$658, 254	\$408,121	\$339, 2
Chemicals and dyestuffs, cost All other materials, cost	\$2,917,202	\$1,378,509	\$1,729,492	\$1,467,4°
	\$10,497,807	\$6,019,429	\$3,221,914	\$2,952,7°

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	1\$123,253,828	\$69,128,185	1 \$71, 188, 152	1 \$61, 586, 433
Carpets and rugs: Pounds	118,071,798 52,173,092 \$110,115,978	(2) 66,340,274 \$64,683,322	(2) 81,218,881 \$66,960,338	(2) 82,070,843 \$56,861,775
quette— Pounds Square yards Value	36,667,823 14,700,394 \$35,503,778	15,742,835 \$18,578,693	(2) 15,691,358 \$17,372,706	(2) 8,181,606 \$8,476,140
Wilton— Pounds Square yards Value	16, 464, 515 4, 964, 321 \$23, 461, 960	(2) 5,616,263 \$11,929,605	5,343,616 \$10,119,330	(1) 2,395,058 \$4,710,444
Brussels— Pounds Square yards Value	2,399,118 903,127 \$2,233,053	2,698,840 \$3,995,626	(2) 4,486,457 \$ 5, 5 50,189	(2) 3,024,162 \$3,898,675
Tapestry velvet— Pounds	22,443,519 9,865,798 \$20,625,610	13,227,819 \$12,867,635	10,660,170 \$9,027,193	8,033,288 \$7,754,681
Tapestry Brussels— Pounds Square yards Value	20,205,086 9,996,099 \$13,120,096	(2) 13,614,354 \$9,852,647	17,078,476 \$12,999,333	16, 108, 908 \$11, 464, 716
Ingrain carpets— PoundsSquare yards Value	1,357,793 1,199,714 \$1,055,242	5,795,807 \$2,241,294	(2) 17,799,762 \$6,749,672	

^{&#}x27;In addition, in 1919, carpets and rugs, to the value of \$40,089, in 1909 to the value of \$479,101, 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.

*Not reported.

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— Founds Square yards Value Smyrna rugs— Pounds Square yards Value. Other carpets and rugs— Pounds Square yards Value. All other products, value.	976, 122 820, 911 \$714, 048 2, 658, 390 807, 741 \$1, 914, 201 14, 899, 432 8, 914, 987 \$11, 487, 390 \$13, 137, 850	(1) 3,177,583 \$1,165,087 (1) \$22,150 \$876,891 (4) 5,644,643 \$3,181,844 \$4,444,863	6, 131, 862 \$2,408,960 1,400,233 \$1,660,322 2,676,947 \$1,078,633 \$4,221,814	(1) 7,135,540 82,785,457 (1) 3,825,282 84,134,500 (1) 406,042 \$349,\$60 \$4,724,058

1 Not reported.

Table 45.—Products of the Carpet and Rug Industry: 1919 and 1914.

		1919			1914		
PRODUCT.	Pounds.	Square yards,	Value.	Square yards.	Value.		
Carpets, total	4,903,286 3,936,370 210,161 9,911,401	2,024,291 1,227,816 148,686 4,376,196 2,000,294 1,199,714	2,656,088 1,055,242	1,451,752 1,900,948 693,827 4,856,066 2,612,947	1,848,523 3,540,480 1,030,398 4,813,992 1,706,103		
Rugs, made of sewed strips, total Axminster and moquette. Wilton Brussels Tapestry velvet Tapestry Brussels All other	18,682,656 10,218,547 2,173,957 2,835,775 468,597	7,209,480 2,954,691 744,160 1,292,488 116,988	34,588,983 14,995,835 14,580,636 1,968,987 2,301,044 562,593 173,888	9,637,852 3,574,464 2,000,819 2,913,657 2,727,734	10,659,307 8,015,747 2,956,198 2,437,290 1,877,070		
Rugs, woven whole, total. Axminster and moquette. Wilton. Brussels Tapestry velvet. Tapestry Brussels. Ingrain. Smyrna Chenille—Axminster. Wool and paper fiber. Colonial, or rag rugs. All other.	9,696,343 15,430,871 976,122 2,658,390 1,182,825 9,627,739	4,197,114 7,878,817 820,911 807,741 310,181 6,828,638 293,941	9,005,734 9,901,415 714,648 1,914,201 2,526,851 6,247,954 512,047	5,458,096 8,273,673 3,177,563 822,150 178,058 4,168,954	5,616,347 6,269,474 1,165,087 870,891 714,798 1,543,079		

Wool consumed in the industry.—The quantity and cost of domestic and foreign wool used in the industry during 1919 are 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 the grease, and scoured.

Table 46.—Wool Used in the Carpet and Rug Industry: 1919.

	Pounds.	Cost.
Wool purchased. Domestic. Foreign.	36, 261, 904 395, 875 35, 866, 029	\$13, 258, 069 166, 211 13, 091, 858
In condition purchased: In grease Domestic. Foreign. Washed Domestic. Foreign. Scoured. Domestic. Foreign. Scoured. Foreign.	31, 816, 075 324, 247 31, 492, 428 2, 378, 592 40, 573 2, 338, 010 2, 066, 037 31, 055 2, 035, 582	
Equivalent total: In grease. Domestic. Foreign Scoured. Domestic. Foreign	433, 005 38, 463, 660 21, 905, 916 248, 900	

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.

			NUMI	BER.		
KIND,	Total.	Con- necti- cut.	Massa- chu- setts.	New Jersey.	New York.	Penn- syl- vania,
Cards, number	592 468 129	64 50 14	61 33 28	13 13	381 298 83	73 69 4
Spindles Producing spindles Mule. Woolen. Worsted. Frame Woolen Worsted. Cotton	233, 226 199, 360 126, 788 118, 868 7, 920 72, 572 7, 792 57, 740 7, 040	20, 526 20, 126 9, 282 9, 282 10, 844	02, 820 52, 436 41, 504 41, 504 10, 932	3,300 3,300 3,300 3,300	123, 612 103, 534 57, 788 49, 868 7, 920 45, 706 7, 702 30, 964 7, 040	22, 908 19, 914 14, 914 14, 914 5, 000 5, 000
Doubling and twisting spindles Woolen Worsted Cotton and paper	33,866 9,238 19,652 14,976	400 400	10, 384 4, 368 4, 016 12, 000		20, 028 4, 488 12, 636 2, 904	3, 054 382 2, 600 1 72
Looms Carpet Rug Other	9,256 4,205 3,952 1,099	536 175 361	1,085 507 578	235 235	3,113 1,701 1,224 188	4, 287 1, 822 1, 554 911
Wool-combing machines Pickers Garnett machines	85 66 21	13 7	13 3 7	<u>2</u> 3	55 48 10	4 6 1

 $^{^{\}rm 1}$ 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.

	NUMBER.					
KIND	1919	1914	1909	1904		
Looms on carpels and rugs, total Power looms. Hand looms.	1 8, 157 7, 897 260	9,852 9,821 31	11,943 11,736 207	11,692 11,002 690		
Ingrain: Power. Hand. Broad ingrain: Power. Hand.	620 11 695	1,251 569	2,884 26 788	4,189 82 412 42		
Venetian: Power Hand.			18 1	88 3		
Smyrna: Power. Hand. Colonial or rag:	413	487 11	964 57	1,131 563		
Power. Hand. Tapestry Brussels. Tapestry velvet. Body Brussels. Wilton Axminster Moquette.	1,209 1,114 394 1,225 2,111	123 20 1,281 1,309 550 1,521 2,704	186 116 2,680 636 1,018 } 2,562	(1) (1) 2,490 549 710 1,433		

 $^{^1}$ Not including looms on woven goods, other than carpets and rugs: 1919—1,099; 1914—489; 1909—328; 1904—2,161.

Table 49.—Looms Used in the Carpet and Rug Industry, by States: 1919.

			NUMB	ER.		
KIND.	United States.	Con- necti- cut.	Massa- chu- setts.	New Jer- sey.	New York,	Penn- syl- vania.
Looms on carpets and rugs, total Power looms Hand looms	1 8,157 7,897 260	536 536	1,085 836 249	235 235	2,925 2,914 11	3,376 3,376
Carpet looms: Ingrain Broad ingrain Tapestry Brussels Tapestry velvet Body Brussels Wilton Axminster	24 982 835 347 262	66 55 48 6	22 55 100 170		4 45 606 14 257 18 751	394 22 288 769 31 91
Smyrna— Power. Colonial or rag—	. 33	 			6	2
Power. Hand			160		4	4
Rug looms: Ingrain Broad ingrain Tapestry Brussels. Tapestry velvet. Body Brussels. Wilton. Axminster. Moduetto.	671 227 279 47 963 1,033	56 30 110 165	98 170 33 5 180	42 9 22 24 43 34	24 117 158 58 614	9- 43- 1: 6: 4: 59- 20:
Smŷrna— Power				61	242	7
Colonial or rag— Power Hand			89		11	2

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.

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 are 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	\$5,754,026
Wool:				
In condition purchased-	(
Pounds	11,804,373 \$9,359,160	14,969,852 \$4,030,114	12,409,826 \$3,927,393	11,868,238 \$3,388,588
Cost	\$9,359,160	\$1,030,114	\$3,927,393	\$3,388,588
Equivalent of above in	0 150 010	10 100 010	0.000.150	0 101 000
scoured condition, pounds Animal hair, etc:	9, 450, 913	10, 476, 716	9,308,172	8,131,082
Pounds	19, 663, 511	11,540,635	8.144.011	6, 974, 634
Cost	\$1,394,810	\$739, 955	8, 144, 011 \$239, 244	6,974,634 \$373,797
Cotton:	1	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	
Pounds	1,442,406 \$437,363	3, 117, 272	1,375,670	1,982,624 \$217,200
Cost	\$437,363	\$297,632	\$155, 815	\$217,200
Recovered wool fiber: Pounds	1 101 050	0 500 505	0 500 010	1 500 105
Cost.	4, 194, 670 \$1, 332, 935	3, 502, 795 \$409, 518	2,536,243 \$261,878	1,532,127 \$157,031

Table 50.—Materials Used in the Felt-Goods Industry: 1919, 1914, 1909, and 1904—Continued.

MATERIAL.	1919	1914	1909	1904
Waste and noils:	6, 040, 136	4,064,099	4,874,712	1, 948, 969
PoundsCost.	\$4, 355, 908	\$1,019 687	\$1,220,110	\$452, 509
Chemicals and dyestuffs, cost	\$604,616	\$269, 921	\$219, 891	\$189,750
	\$5,295,983	\$1, 541, 443	\$942, 875	\$975,151

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

	Pounds.	Cost.
Wool purchased. Domestic. Foreign.	11, 804, 373 7, 496, 756 4, 307, 617	\$9, 359, 160 6, 319, 491 3, 039, 666
In condition purchased In grease Domestic. Foreign Washed Domestic. Foreign. Scoured Domestic. Foreign. Scoured Tomestic. Foreign	11, 804, 373 5, 211, 991 2, 926, 593 2, 822, 398 870, 068 458, 472 411, 596 5, 722, 314 4, 103, 691 1, 613, 623	
Equivalent total In grease Domestic. Foreign. Scoured Domestic Foreign.	26, 754, 860 17, 303, 947 11, 271, 897 6, 032, 050 9, 450, 913 6, 188, 624 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	1 \$39, 229, 540	¹ \$13, 692, 765	\$11,852,626	\$8,948,594
Felt cloths: Pounds Square yards Value Trimming and lining felts, felt skirts, table and plano	3,397,378 2,751,497 \$8,785,169	(2) (3) \$797,048	(2) 3,764,468 \$1,381,854	(2) 3,689,610 \$1,830,627
covers: Pounds	4,158,956 9,199,673 \$3,143,678	8, 369, 330 \$1, 321, 337	5,953,410 \$1,329,686	5,145,340 \$1,188,908
Pounds	1,132,598 2,185,465 \$1,307,123	(8)	(3)	(a)
Piano felts: Pounds. Square yards. Value. Saddle felts:	777,558 381,388 \$1,945,988	} (3)	(3)	(a)
Pounds Value; Endless belts:	812,508 \$639,234	2, 291, 662 \$973, 353	1,650,991 \$575,849	} (8) .
Pounds Value Boot and shoe linings:	250,000 \$478,285	3,941,795 \$4,164,186	3,243,034 \$3,417,822	1,770,124 \$1,707,216
Pounds	2,471,177 5,280,970 \$2,603,724	3,028,286 \$1,512,783	1,661,090 \$514,456	2,823,137 \$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, AND 1904—Continued.

PRODUCT.	1919	1914	1909	1904
Hairfelting: Pounds Square yards Value. All other feits, value All other products, value	6,658,787	(1)	(1)	(1)
	7,222,741	1,350,436	1,159,999	605, 214
	\$2,249,653	\$635,041	\$531,045	\$191, 998
	\$15,369,261	\$3,691,081	\$3,549,876	\$2, 592, 894
	\$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 are shown, by states, in Table 53 for the year 1919.

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

			NU	MBER	·.		
KIND.	Total.	Con- necti- cut.	Mas- sachu- setts.	New Jer- scy.	New York,	Ohio.	All other states.
Woolen cards 1 (sets)	440	36	157	33	76	21	117
	² 33, 258 ² 32, 947	1,790 1,790	2,000 2,000		12,678 12,603	7,978 7,978	28,812 28,576
(woolen)	311				75		236
LoomsBroadMediumNarrow	510 480 15 15	28 28	60 60		174 166 5	112 112	136 114 10 12
Wool-combing machines	12 94 31	7 3	36 9	5	19 9	5 2	12 22 8

¹ Includes shoddy cards.

WOOL-FELT HATS.

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, 699 , 822	\$978, 339	\$2,472,263	\$1, 369, 81
Wool:				
In condition purchased—		İ		
Pounds	200, 294	606, 957	1,203,498	1, 633, 52
Cost. Equivalent in scoured condition,	\$212,632	\$298, 345	1,203,498 \$404,127	1, 633, 526 \$495, 59
pounds Wool waste and noils:	194, 828	561, 639	989, 110	1, 231, 57
Pounds	711, 747	454,099	1, 281, 764	287, 36
Cost	\$791,900	454,099 \$213,851	1,281,764 \$661,172	\$119,40
Dozens	72, 213	13, 419	21 864	12,08
Cost	\$573, 925	\$26, 646	21,864 \$83,020	\$25,09
Chemicals and dyestuffs, cost	\$172,320	\$34,501	\$104,503	\$62.00
Chemicals and dyestuffs, cost	\$1,949,045	\$404,996	\$1,219,441	\$63,90 \$664,90

Wool used in the industry.-The quantity and cost of wool used in the manufacture of wool-felt hats, in 1919, are 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. In grease.	200, 294 10, 485	\$212,632
Washed Scoured Equivalent total:	180,859	
In grease Scoured	385, 272 194, 828	

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

Product.	1919	1914	1909	1904
Total value	\$6,739,652	1 \$1, 944, 484	\$4, 382, 411	\$2,457,266
Wool-felt hats: Dozens. Value. Wool-felt hat bodies and hats in the rough:	401, 893 \$5, 409, 505	381,044 \$1,777,225	590, 957 \$3, 646, 787	\$446, 121 \$2, 290, 070
DozensValue	104, 144 \$165, 469	5,715 \$13,029	53, 896 \$309, 492	18,587 \$100,491
All other products, value	\$1, 164, 678	\$154,230	\$426, 132	\$66,70

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 \$904,643, were made by establishments engaged primarily in other industries,

² Includes 40 worsted spindles.

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-	age	Primary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	STATE.	Cen- sus year,	Num- ber of estab- lish-	Wage earners (aver- age	Primary horse-	Wages.	Cost of mate- rials.	Value of prod- uets.
	J (A12)	ments.	num- ber).	po	Expres	sed in th	ousands.		your.	ments.	num- ber).	power.	Expres	sed in the	ousands.
United States	1919 1914 1909	1,016 979 1,124	196, 404 195, 285 202, 029	525,757 442,330 400,762	\$198,586 93,358 87,963	\$759, 193 298, 063 322, 441	\$1,234,657 464,250 507,167	New Jersey	51919 31914 1909	35 35 42	14,782 15,336 13,536	30, 614 26, 219 21, 224	\$14,459 6,826 5,339	\$55,699 24,421 21,931	\$102,302 38,491 35,884
Connecticut	11919 21914 21909	47 53 56	8, 132 7, 350 7, 789	22, 570 18, 194 17, 518	8,872 3,731 3,485	33, 208 10, 764 12, 838	53,814 17,129 19,363	New York	1919 1914 1909	68 65 80	18,800 21,092 21,358	44, 439 39, 020 34, 275	19,100 9,842 10,015	56, 394 28, 682 28, 059	100,402 47,174 49,345
Georgia	11919 81914 1909	3 3 7	595 524 660	1,680 1,680 1,437	440 181 175	1,666 355 443	2,703 598 871		11919 11914	10 12	786 2,959	2,040 6,123	605 1,136	2,028 3,462	3,386 7,233
Illinois	41919 11914 1909	4 9	482 341 499	1, 112 1, 163 1, 342	385 167 237	1,715 461 773	2,708 783 1,314		*1919 1914 1909	5 7 8	808 648 469	2,341 1,670 1,628	754 373 202	1,946 943 527	3,357 1,702 929
Indiana	1919 31914 31909	11 10 11	948 719 776	1,860 1,519 1,678	725 318 293	3,320 991 1,056	4,542 1,522 1,570	Ponnsylvania	1914 1909	259 266 310	30,936 34,030 38,919	69,047 58,232 63,478	32, 296 15, 766 16, 116	140, 408 58, 947 69, 282	217, 598 87, 508 102, 326
Kentucky	1919 1914 1909	10 11 14	565 675 818	1, 128 1, 778 2, 506	428 210 241	1,949 611 858	3,247 934 1,278		³ 1914 1909	88 80 88	24, 393 22, 745 24, 924	58, 918 50, 206 43, 715	23, 634 11, 368 11, 538	116,915 41,735 51,025	175,312 60,889 74,600
Maine	11919 11914 11909	66 57 63	9,913 7,998 8,553	28, 373 23, 839 21, 651	11,038 4,072 3,779	36, 227 10, 823 11, 121	60,327 17,531 18,002	Tennessee	1919 1914 1909	13 17 21	1,366 1,069 1,654	1,966 2,302 2,371	803 289 419	2,232 923 1,127	4, 242 1, 547 1, 802
	11919 11914 11909	207 183 189	58, 084 59, 574 59, 149	190, 105 154, 061 126, 477	61,050 29,752 27,022	227, 371 89, 746 94, 797	366,506 141,330 153,477	Vermont	1919 1914 1909	18 17 17	3,031 2,226 2,294	9,712 8,841 7,213	3, 382 1, 167 1, 043	10, 536 2, 989 2, 879	17, 426 4, 635 4, 497
Michigan	31919 1014 1909	9 9 15	812 477 554	1,502 1,311 1,900	719 230 235	2,881 793 863	4,572 1,215 1,571		1919 *1914 1909	12 12 16	030 431 542	1,405 911 1,352	469 168 176	1,536 420 567	2, 693 790 999
Minnesota	*1919 *1914 1909	11 16 16	574 448 277	1,491 1,266 642	474 220 123	1,780 850 429	2,804 1,298 699	West Virginia	1919 1914 1909	7 8 13	542 276 509	1, 256 672 1, 327	512 118 222	1,692 417 795	2, 779 679 1, 224
New Hampshire		44 40 39	9,772 9,532 9,486	33, 119 30, 392 30, 485	9,549 4,211 3,649	26, 479 10, 087 11, 095	45, 944 15, 039 16, 781	All other states	1919 1914 1909	89 69 110	10,453 6,835 9,173	21, 079 12, 936 18, 543	8,892 3,204 3,654	33,209 9,643 11,976	57, 933 16, 223 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 0 establishments to avoid disclosing individual operations.
5 Excludes statistics for 5 establishments to avoid disclosing individual operations.

TABLE 58.—DETAILED STATEMENT FOR WOOL

				PERSO	ns eng	AGED IN	THE IN	DUSTRY.		W.A NEAL	GE EARI REST REF	NERS DEC	C. 15, O	R AY.	
INDUSTRY AND STATE,				Sala-	Clerk	s, etc.		Wage earn	ers.		16 and	l over.	Unde	r 16.	
	Number of ostablishments.	Total.	Pro- prie- tors and firm mem- bers,	ried offi- cers, super- in- tend- ents, and man- agers.	Male.	Fe- male.	Aver- age num- ber.	Number, 18 Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male.	Fe- male.	Capital.
					w	oor 1	IANUF.	ACTURES.							

1	TT-11-1 Ot-1-		202 202												-			Dollars.
1	United States				5, 152	3,826	2,355	196,404	De	226, 587	Fe	140, 168	229,181	127,801	92,811	3,779	° 4,790	989, 746, 958
3	Connecticut 8	47 3 4	8, 582 617	5	230 17	113 3	102 2	8, 132 595	De Jy	9,132 617	Оc	6, 771 558	9,179 621	6,435 373	2,415 237	175	154 7	42, 405, 215
5 6	Georgia ^a Illinois ⁴ Indiana Kentucky	11 10	513 1,006 597	8 9	18 19 16	13 24 4	7 3	482 948 565	Je De No	499 1, 005 640	Fe	451 838 433	498	304	187 505 202	3 9 21	4 11 72	42, 405, 215 1, 675, 502 1, 928, 633 3, 120, 611 1, 696, 367
7 8 9 10 11	Louisiana Maine ³ Maryland Massachusetts ³ Michigan ⁶	207 9	22 10, 479 223 61, 335 880	1 3	331 7 1,521 35	1 1 2 9 5 741 14	96 1 901 17	9,913 207 58,084 812	(5) De De Se De	18 11, 583 354 66, 745 892	Ja Fe	18 7,374 25 39,852 682	18 11,513 354 68,793 892	7, 355 268 39, 831 505	10 4,057 86 25,430 377	59		13, 150 49, 708, 895 1, 984, 388
12 13 14 15 16	Minnesota ⁵ . New Hampshire. New Jersey ⁷ . New York. Ohio ⁴ .	11 44 35 68 10	082 10, 179 16, 002 19, 805 854	1 15 13 33 2	41 226 295 421 32	50 86 769 375 22	16 80 143 176 12	574 9,772 14,782 18,800 780	De De Au De No	599 10,733 17,949 21,664 819	Fe Fe	539 8,222 4,018 15,204 730	18, 188	288 6,717 8,337 12,891 300	312 3,915 8,939 8,891 476	50 373 71	54 539 39	2, 353, 331 44, 724, 203 93, 121, 497 88, 970, 340 3, 699, 111
17 18 19 20 21	Oregon ⁶ Pennsylvania. Rhodo Island ⁶ Tennessee. Vermont	13 18	858 33, 079 25, 650 1, 442 3, 225	205 18 9	17 925 585 31 109	27 652 416 27 46	361 238 9 31	\$08 30,936 24,393 1,366 3,031	Se De De Oc De	909 35, 365 29, 006 1, 418 3, 817	Fe Fe Ap	701 24,364 15,827 1,247 1,819	29,213 1,413	457 18,216 14,323 744 2,826	13,095 614	611 757 21	6 679 1,068 34 6	2, 459, 000 157, 607, 810
22 23 24 25	Virginia. West Virginia. Wisconsin ⁸ . All other states ⁹ .	12 7 24 59	668 590 1,187 9,750	7 17 33	20 36 56 164	7 6 24 272	4 6 20 12 3	630 542 1,070 9,158	Oc De De	663 623 1,203		591 412 802	662 623 1,207 10,112	454 370 550 5,529	204 253 608 4,480	17	2 32 47	2, 338, 595 2, 243, 672 4, 583, 505 44, 449, 661

WOOLEN GOODS.

_		17																
1	United States	560	67,020	258	2, 229	894	682	62, 957	De	70, 374	Fe	47,872	72,062	47,736	23,274	560	492	273, 973, 670
2 3 4 5 6	Connecticut Georgia Illinois Indiana Maine	11 59	513	8	163 17 18 19 274	50 3 13 24 108	56 2 7 80	5,351 595 482 948 6,915	Jy Je De	6,006 617 499 1,005 8,168	Fe Ja Fe	4, 434 582 451 838 4, 693	6,053 621 498 1,006 8,098	4,426 373 304 481 5,388	1,505 237 187 505 2,670	. 4 3 9	7 4 11	
7 8 9 10 11	Maryland Massachusetts Michigan Minnesota New Hampshire	111 9 11 39	223 18,664 880 682 5,609	50 2 1	7 625 35 41 177	5 202 14 50 44	1 219 17 16 60	207 17,568 812 574 5,317	De Se De De De	354 20, 235 892 599 6, 038	Fe Ja Fe	25 12,544 682 539 4,073	892 600	208 13,950 505 288 4,308	86 5,833 377 312 1,722	241 5	218 5	1, 984, 388 77, 495, 511 3, 624, 687 2, 353, 331 23, 122, 689
12 13 14 15 16	New Jersey. New York Ohio Oregon Pennsylvania	10 5 108	854 858 7,955	11 2 90	30 100 32 17 295	35 34 22 27 111	4 38 12 6 61	1,271 3,348 786 808 7,398	Se De No Se De	1,367 3,999 819 909 8,631	Fe Mh	1, 156 2, 678 730 701 5, 182	4,049 776 855	2,501 300 457	392		6	4, 578, 361 14, 339, 283 3, 699, 111 2, 459, 000 31, 548, 546
18 19 20 21	Rhode Island	13 12	3,346 1,442 668 943 4,873	9 7 17	115 31 20 43 170	44 27 7 21 53	39 0 4 13 38	3, 144 1, 366 630 849 4, 588	Oc Oc De	3,785 1,418 663 955	Ap Mh Fe	1,848 1,247 591 645	3,648 1,413 662 959 5,336	744 454 470	204 467	50 21 2 9 1	29 34 2 13 12	15, 709, 896 2, 955, 816 2, 338, 595 3, 374, 468 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-bolt or transmitted power from neighboring power plants).
3 Excludes statistics for 2 establishments to avoid disclosure of individual operations.
4 Excludes statistics for 6 establishments to avoid disclosure of individual operations.
5 Same number reported throughout the year.

These are included in "All other states."

MANUFACTURES, BY STATES AND INDUSTRIES: 1919.

	EXPENSES. Salaries and wages. Rent and taxes. For mater.											РО	WER.			
Salar	Salaries and wages.			Rentar	nd taxes.	For ma	terials.				Prim	ary hors	epower	•		Elec-
			For		Toron	۵		Value of products.	Value added by manufac-			Own	ed.			tric horse- power
Officials.	Clerks, etc.	Wage earners.	con- tract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	products.	ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Internal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed.2	generated in estab- lish- ments report ing.

Dollars. 27,629,110	Dollars. 10,558,023	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. 1,234,657,092	Dollars. 475, 463, 773	525,757	230,900	121, 547	1,882	81,094	90,334	176, 943	1
1,315,662 70,217 83,652 116,483 50,950	1 30,434	725, 120			3,249,768 120,631 49,855 100,552 132,849	32, 382, 934 1, 621, 896 1, 664, 064 3, 248, 027 1, 912, 058	44,483 40,780 71,956	2,702,988 2,707,908	1,036,609 1,003,064 1,222,084	1,680 1,112 1,860	i 1800		125 26	250 200	4,342 880 187 260 293	4, 810 310 224	3 4 5
1,528,24 21,619 7,539,49 180,88	5,182 $2,478,808$	11,037,750 228,636 61,049,980	366,428 17,504 3,944,117 2,661	1,540 183,125	3, 624, 116 8, 661 17, 573, 575 184, 070	35, 181, 864 862, 486 220, 881, 121	1,044,894 21,859 6,490,026	60,327,260 1,541,205 366,506,496	24,100,502 656,860 139,135,349	28,373 1,260 190,105	7,980 115 64,548		197 135 30	950	10 8,788 60 30,594 766	1, 187 40 81, 240 15	9 10
180,98 933,74 1,780,57 2,386,46 144,67	233,211 1,640,504 2,1,392,953	9,549,413 14,458,701 19,000,005	11,958 111,542 66,663	3,552 30,310	2,058,452 9,157,849 3,889,782	25, 591, 593 54, 529, 559 54, 856, 433	887,643 1,169,700 1,537,676	45,943,993 102,302,296 100,401,524	19,464,757 46,603,037 44,007,415	1,491 33,119 30,614 44,439 2,040	370 9,947 16,180 18,821 1,075	8,350 10,323 7,608	25 5 561 2	410 12,986 255 9,322 30	686 1,831 3,295 8,686 935	11,016 13,975 17,334	14
57,59 4,910,83 4,027,15 100,17 583,28	1) 1,331,310 2) 1,103,123 8 65,290	32,295,754 3 23,633,605 3 803,015	1,604,612 368,963	107,592	4,807,062 10,332,851 178,922	138, 249, 586 114, 792, 220 2, 162, 762	2,158,330 2,122,558 69,633	217, 598, 384 175, 312, 358 4, 242, 057	77, 190, 468 58, 397, 580 2, 009, 662	58, 918 1, 966	153 53,090 29,148 935 2,910	2, 150 16, 254	₁₂	4,590	8,926 944	20,330 13,319	19 20
43,97 139,07 253,86 1,181,49	5 16,08 9 13,33 0 90,22	469, 223 512, 188 1 827, 132	77	100,565	57, 197 323, 451	1,631,421 3,264,610	60,301 73,926	2,778,916 5,495,368	1,087,194 2,156,827	1, 256 2, 985	710 1,445		138 32 45 88	1, 194	514	488	24

WOOLEN GOODS.

																· · · · · · · · · · · · · · · · · · ·	
10,601,093	2,540,003	66, 595, 826	1,108,862	484,512	16, 306, 713	212, 189, 028	5,776,305	364,896,590	146, 931, 257	172, 947	74,876	10,623	1,577	46,705	39,166	25,791	
934, 507 70, 217 83, 657 116, 488 1, 240, 600	30,434	430, 723 386, 208 725, 120		480	1, 676, 255 120, 631 49, 855 100, 552 2, 432, 574	3, 248, 027	44,483 40,780 71,956	32,357,090 2,702,988 2,707,908 4,542,067 42,441,583	1,036,609 1,003,064 1,222,084	14,670 1,680 1,112 1,860 21,941	6,300 800 675 1,400 6,390		197	4, 683 250 200 10, 003	3,696 880 187 260 5,351	2,207 310 537	3 4 5
21, 616 2, 925, 84 180, 98 180, 98 732, 98		228, 636 19, 799, 579 718, 675 474, 386	17,504 363,052 2,661 36,503	40,019 9,414	5,531,027 184,070 183,052	1,734,652	1,721,258 73,991	105, 183, 068 4, 571, 704 2, 864, 259	43,089,550 1,690,646 1,084,118	1,260 50,100 1,502 1,491 17,379	370	6,290	135 30 25 5	950 10,019 36 410 8,686	60 12, 152 766 686 1, 641	40 11,125 15 351 2,016	10
223,62 483,11 144,67 57,59 1,379,90	101,023 8 92,993 7 97,814 5 72,935	1,165,897 3,241,421 605,245 754,064	58, 435 1, 990	924	62, 171	10,499,360 1,971,447 1,858,725	56,873 87,744	17,546,090 3,385,985	6.733.722	2, 795 10, 066 2, 040 2, 341 15, 961	2,155 3,915 1,075 153 11,174		•••••	50 2,705 30 1,250 307	935	1,674 21 40 2,247	14 15 16
645, 80 100, 17 43, 97 188, 34 846, 07	4 155, 266 8 65, 296 5 16, 081 9 62, 097	3,559,272 803,015 469,223 664,244	95,521 183 771	111,106 771	178, 922 141, 455 217, 914	2, 162, 762 1, 488, 254 2, 237, 831	50,143 53,813	2,693,142 3,998,368	2,009,662 1,154,745	7, 176 1, 966 1, 405 2, 457 13, 730	3,749 935 630 1,020 4,664		12 138 45 114		1,251 944 300 298 2,321	300 448 3,390	18 19 20

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

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

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

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

*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;

*All other states embrace: California, 5 establishments in certain states statistics for which can not be shown separately without disclosing individual operations.

*Ball 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

					PERSON	IS ENG!	lged in	THE INC	ovstr.	7.				GE EARN EST REPI				
	•				Sala-	Clerk	s, etc.		Wag	e earne	rs.			16 and	over.	Unde	r 16.	
	INDUSTRY AND STATE.	Num- ber of estab- lish- ments.	Total.	Pro- prie- tors and firm mem- bers.	ried offi- cors, super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average number.	Max	imum nth.	Min	imum onth.	Total.	Male.	Fe- male.	Male.	Fe- male.	Capital.
_		<u>'</u>			· · · · · · · · · · · · · · · · · · ·		WOR	TED 6	100D	S				<u>'</u>			·!	
1	United States	292	109, 372	129	2,219	2,048	1,146	103,830	De	122, 495	Fe	67, 489	122, 587	57, 921	57,911	2,825	3,930	Dollars. 557, 721, 078
2 3 4 5 6	Connecticut. Maine. Massachusetts. New Hampshire. New Jersey.	9 7 71 5 20	2,579 3,092 37,997 4,570 14,318	32 4 7	56 57 789 49 249	45 21 385 42 717	31 16 495 20 12 6	2,447 2,998 36,296 4,455 13,219	Se	2,752 3,415 43,873 4,718 16,309	Fe Ja Fe Ja Fe	2,025 2,621 23,755 4,125 2,550	2, 752 3, 415 43, 245 4, 695 16, 590	1,694 1,967 22,629 2,409 7,476	867 1,387 17,905 2,193 8,224	96 35 1, 124 42 364	2611	16, 775, 765 15, 845, 398 190, 353, 441 21, 601, 514 87, 014, 806
7 8 9 10 11	New York. Pennsylvania. Rhode Island. Wisconsin. All other states ³	14 89 62 3 12	4, 680 16, 346 22, 304 244 3, 242	12 57 14 3	109 358 470 13 69	67 334 372 3 62	28 197 199 7 27	4,464 15,400 21,249 221 3,081	Au	5,148 17,358 25,221 267	Fe Fe Fo	3,106 12,778 13,979 157	5, 052 17, 423 25, 595 248 3, 572	2,096 6,939 11,543 80 1,088	2,927 9,586 12,306 141 2,375	16 402 707 8 31	13 496 1,039 19 78	18, 020, 944 80, 390, 892 110, 153, 835 1, 209, 037 16, 346, 446
						C	ARPE	TS AN	D RU	GS.			11				<u> </u>	
1	United States	75	24, 251	50	444	566	258	22,933	De	26,502	Ja	18,622	27,002	16,573	9,739	352	338	119, 196, 461
2 3 4 5	Massachusetts New York Pennsylvania All other states 4	10 10 48 7	3,365 9,440 8,188 3,258	6 3 37 4	51 134 232 27	108 166 196 96	66 64 97 31	3, 134 9, 073 7, 626 3, 100	Au De De	3,726 10,581 8,813	Fe Ja Fe	2,410 7,397 5,806	4, 058 10, 581 8, 915 3, 448	2, 162 6, 641 5, 535 2, 235	3, 136	165 32 119 36	125	14, 435, 308 44, 492, 445 43, 865, 640 16, 403, 088
							FE	T GO	DDS.								-	
ī	United States	49	5,934	8	198	242	250	5, 236	De	5,744	Му	4,874	5, 895	4,478	1,371	30	16	35, 024, 373
2 3 4 5 6 7	Connecticut Massachusetts New Jarsey New York Pennsylvanta All other states 6	3 15 6 10 4 11	378 1,309 331 1,557 210 2,149	4	11 56 16 61 8 46	18 46 17 51 7 103	15 121 13 40 6 55	334 1,086 285 1,401 189 1,941	De	374 1,143 321 1,636 219	Ja Mv	303 1,021 289 1,185 164	374 1, 248 300 1, 636 202 2, 135	315 1,090 261 1,210 180 1,422	140 38 421 22	1 3		1,787,729 10,790,477 1,510,621 10,409,470 1,018,920 9,507,158
							WOOI	-FELT	ΗV	. 8.								
1	United States	40	1,648	43	62	76	19	1,448	Δu	1,923	Ja	916	1, 635	1,093	516	12	14	3,831,376
2 3 4 5 6	Louisiana New Jorsoy. New York. Ponnsylvania All other states 8	3 3 9 10 15	22 9 597 380 640	2 2 3 21 15	17 32 13	1 57 4 14	1 6 12	18 7 514 323 586	(7) Se 6 Au Je	18 14 840 426	(7) Ja ⁵ Ja Mh	18 2 216 197	18 14 574 345 684	7 7 443 232 404	10 7 131 104 264	7 4	 2 12	13,150 17,709 1,708,198 783,812 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-belt or transmitted power from neighboring power plants).

3 All other states embrace: Delaware, i establishment; Georgia, i; Illinois, i; Kentucky, i; Ohio, 3; Oregon, i; South Carolina, i; Texas, i; Vermont, i; and West Virginia, 1.

4 All other states embrace: Connecticut, i establishment; New Jersey, 5; and Wisconsin, i.

MANUFACTURES, BY STATES AND INDUSTRIES: 1919—Continued.

			EXPE	nses.								PO	WER.			
Sala	ries and wa	iges.		Rent an	d taxes.	For mai	terials.	:			Pri	mary ho	rsepow	er.		Elec-
			Tinu					Value of products.	Value added by manufac-			Own	ed.			tric horse- power
Omcials.	Clerks, etc.	Wage earners,	For con- tract work.	Rent of factory.		Principal materials.	Fuel and rent of power.	produces.	ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wa- ter pow- er. ¹	Rent- ed.²	gener- ated in estab- lish- ments report ing.
	<u> </u>			•		V	VORSTED	GOODS.								
Dollars. 2, 898, 848	Dollars. 4,941,812	Dollars. 101,512,855	Dollars. 8,013,960	Dollars. 587, 962	Dollars. 36,630,594	Dollars. 138,007,587	Dollars. 9,621,763	Dollars. 700,537,482	Dollars, 252, 908, 132	295,533	123,393	103,074	216	29, 476	39,374	129,050
305, 086 285, 635 3, 020, 644 200, 750 1, 512, 538	47, 194 1, 334, 287 87, 055	2,611,470 3,111,432 36,949,984 3,687,262 13,003,328	189,978 3,581,000	31,000 7,958 102,691 2 18,634	1,541,957 1,191,542 11,505,350 870,849 8,964,437	12, 346, 920 10, 167, 784 146, 340, 845 7, 414, 781 50, 484, 385	247,019 343,343 4,275,698 367,784 1,032,498	18, 928, 293 17, 885, 677 237, 443, 077 14, 693, 831 95, 115, 024	0,916,200	6,432 128,630 15,740	1,785 1,590 37,424 2,900 13,380	2,335 63,72 8,350 10,280	4	1,405 12,069 4,300	3,244	j 9,000
475, 84 2, 420, 53 3, 381, 34 65, 51 330, 95	2 309, 256 8 947, 857 1 27, 524	3,833,738 15,569,886 20,074,333 162,888 2,508,536	1, 154, 82 273, 44 2, 703, 11	326, 204 2 87, 897 3, 960	2, 637, 637 9, 050, 978 105, 537	81, 517, 520 101 302 826	994, 426 3 1, 829, 839 20, 113	1,496,99	0,693,850 35,963,195 9,948,274 5,450,103 6,802,850	38,947 51,742 528	30,609 25,399 42	36 15,58	51 50	3,084	7,675	8,341 13,293 12,729 40 3,222
	<u> </u>	<u></u>	<u>'</u>		<u></u>	C/	ARPETS	AND RUG	S.							
2, 768, 22	2 1,981,562	24, 216, 12	1 86,71	6 142,850	3, 841, 821		1,727,663		56, 135, 789	-			=	5 2,20		
390, 45 926, 11 1, 014, 79 427, 86	1 479,570 4 679,080	7,976,54	7 8±,62	1 108,067	2, 301, 508 1, 059, 571	22, 765, 598 26, 960, 535	6 275,050 8 673,407 2 571,637 0 207,569	48,717,88 47,479,83	5 25,278,880 0 19,947,66	15, 281 1 12, 440	3,82 6,33 9,98 2,81	0 3,50 7 1,15 5 1,00	00	1,40	7 4,61	5.65
	'				·		FELT	GOODS.							1	li
1, 138, 56	958, 78	1 4, 873, 49	0 9,00	99 42,110	1,614,343	22,155,13				-1	= =====		===	4 2,34	===	
76, 06 293, 56 44, 4 386, 49 35, 5 302, 5	39 64,67 50 213,54 10 47,41 225,23 12 14,79 60 303,12	3 1,151,90 6 283,37 2 1,401,65 2 241,19)5 '6 1,0	11, 10 56 7, 65 6, 55	31,556 6 194,126 0 46,135 0 477,573 4 73,161 0 791,792	1,071,40 6,370,20 1,065,50	142, 73	10,286,36 1,950,36 10,694,58 1,805,8	37, 72 33 4, 181, 65 32 711, 55	5, 24 75 0 5, 16 2 73	3 1,69 4 64 7 2,79 6 60	5 5 1,30 1,30	00	2 6 2 77 2 77	56 2,29 30 4 75 30	2 54 7 50 0 1,61 6 3
<u></u>	1		.,,, '., , ,,,,,,,,,,,,,,,,,,,,,,,,,				WOOLFI	ELT HATS								11
222,3	86 135, 8	35 1,387,7	77 7,6	82 29,78	78, 04	3,594,7						74	_	3	65 4	0 40
114,0 60,0	108,5	97 240,6	00 88 7,1 88	72 12,18 4,78 10 10,68	76 10 57 9, 36 50 22, 15	0 13.4	90 42 31 36,90 37 29,43	26, 7 39 2, 331, 8 39 1, 597, 9	$egin{array}{cccccccccccccccccccccccccccccccccccc$	82 07 1, 18 78 95	7	00 20 54		8	65 1	4 71 37 35 35

⁵ Same number reported for one or more other months.

⁶ All other states embrace: California, i establishment; Illinois, 1; Maine, 2; Michigan, 1; Missouri, 1; Ohio, 2; Rhode Island, 1; and Wisconsin, 2.

⁷ Same number reported for one or more other months.

⁸ All other retards throughout the year.

⁸ 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 CE			1919	1914	1909	PER CI	ENT OF
	1010	1914	1809	1914- 1919	1909- 1914		1010	1914	1000	1914- 1919	1909- 1914
Number of establishments		1		23.6	9.8	Salaries and wages Salaries Wages	\$3,670,392 1,017,223 2,653,169	\$1,343,171 287,057 1,056,114	\$1, 129, 614 265, 548 864, 066	173. 3 254. 4 151. 2	8, 1
Salaried employees. Wage earners (average number). Primary horsepower. Capital	326 2, 566	1	178 1, 923	73.4 19.6	5. 6 11. 5	Paid for contract work Rent and taxes. Cost of materials. Value of products. Value added by manufacture ² .	14, 695 758, 259 16, 076, 315 23, 254, 398 7, 178, 083	7.706.843	3, 581 54, 752 4, 539, 979 6, 854, 993 2, 315, 014	201.7	16.7 12.4

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

TABLE 60.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

	Number	WAG	E EARNERS		VALUE	OF PRODUCT	s.		ADDED BY UFACTURE.	
STATE.	of estab- lish- ments.	Average number.	Per cent distribu- tion.	Rank.	Amount (expressed in thou- sands).	Per cent distribu- tion.	Rank.	Amount (expressed in thou- sands).	Per cent distribu- tion.	Rank.
United States	78	2, 566	100.0		\$23, 254	100. 0		\$7, 178	100.0	
Massachusetts. Connecticut Ohio. New York. Pennsylvania. Rhode Island. All other states ¹ .	9 3 14 9 7	623 303 504 380 153 70 533	24. 3 11. 8 19. 6 14. 8 6. 0 2. 7 20. 8	1 4 2 3 7 8	5, 515 3, 762 3, 720 3, 058 1, 375 445 5, 379	23. 7 16. 2 16. 0 13. 2 5. 9 1. 9 23. 1	1 2 3 4 7 9	1, 815 651 1, 365 1, 145 550 200 1, 452	25. 3 9. 1 19. 0 16. 0 7. 7 2. 8 20. 2	1 4 2 3 6 8

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

² Value of products less cost of materials.

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

67.100	Cen-	M-4-1	Male.	Fe-		CENT OTAL.		Cen-	m-+-3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Fe-	PER O	
CLASS.	sus year.	Total.	Maie.	male.	Male.	Fe- male.	CLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male.
All classes	s	2,956 2,391 2,177	2,449 1,937 1,732	507 454 445	82.8 81.0 79.6	17.2 19.0 20.4	Clerks and other subordinate salaried employees.	1919 1914 1909	163 99 89	107 81 71	56 18 18	65.6 81.8 79.8	34.4 18.2 20.2
Proprietors and officials	1914 2, 1909 2, 1 1919 2, 1 1914 1 1909 1	227 147 165	220 142 154	7 5 11	96. 9 96. 6 93. 3	3.1 3.4 6.7	Wage earners (average number)	1919 1914 1909	2,506 2,145 1,923	2,122 1,714 1,507	444 431 416	82.7 79.9 78.4	17.3 20.1 21.6
Proprietors and firm members	1919 1914 1909	64 58 76	61 55 69	3 3 7	95.3 94.8 90.8	4.7 5.2 9.2	16 years of age and over	1919 1914 1909	2,519 2,141 1,921	2, 115 1, 711 1, 505	404 430 416	84.0 79.9 78.3	16.0 20.1 21.7
Salaried officers of corporations	1919 1914 1909	70 46 39	69 44 37	1 2 2	98. 6 95. 7 94. 9	1.4 4.3 5.1	Under 16 years of age	1919 1914 1909	47 4 2	7 3 2	40 1	14.9 75.0 100.0	85. 1 25. 0
Superintendents and managers	1919 1914 1909	93 43 50	90 43 48	3	96. 8 100. 0 96. 0	3.2 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.]

	Aver-		NUMB	er emplo	YED ON	I5TH DAY	of the 1	IONTH OR	NEAREST	REPRESE	NTATIVE	DAY.		Per
STATE.	num- ber em- ployed during year.	Janu- ary,	Febru- ary,	March.	April.	Мау.	June.	July.	August.	Septem- ber.	Octo- ber,	Novem- ber.	Decem- ber.	mini- mum is of maxi- mum,
United States: 1910	2,122 444	2,516 2,054 462 2,143 1,864	2,405 1,955 450 2,224 1,908	2,444 2,004 440 2,220 1,921	2,585 2,126 459 2,250 1,895	2, 664 2, 206 458 2, 188 1, 904	2,650 2,200 450 2,137 1,920	2,580 2,130 450 2,097 1,915	2,592 2,154 438 2,041 1,886	2,637 2,207 430 2,014 1,916	2,530 2,109 421 2,034 1,952	2,520 2,089 431 2,104 1,956	2,669 2,230 439 2,288 2,036	90. 1 87. 7 91. 1 88. 0 91. 6
Connecticut. Massachusetts. Naw York. Ohio. Pennsylvania	303 623 380 504 153	294 598 357 520 158	265 578 357 503 140	271 606 <i>889</i> 504 144	324 634 354 503 143	353 676 358 516 146	348 644 872 509 153	316 621 374 502 153	309 008 404 505 153	315 643 421 498 154	273 609 402 496 157	269 582 417 499 159	299 677 405 498 170	75. 1 85. 4 80. 5 94. 8 84. 1

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

				STABLI											TABLIS IOURS						
STATE.	Cen- sus year.	Total.	44 and un- der.	Be- tween 44 and 48.	48,1	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60.	Over 60.	STATE.	Cen- sus year.	Total.	44 and un- der,	Be- tween 44 and 48.	48, 1	Be- tween 48 and 54,	54.	Be- tween 54 and 60.	60,	Over 60.
United States	1919 1914	2, 566 2, 145	153 (2)	(2)	617 7	275	261 516	590 498	401 731	269 393	New York	1919 1914	380 283	12			148	29 194	14 54	61 35	
Connecticut	1919 1914	303 135	139				2	75 56	1 79		Ohio	1919 1914	504 523			••••			307 2	197 169	352
Massachusetts	1919 191 4	623 446	(°)	(2)	328 7	55	81 94	121 108	36 198	41	Pennsylvania	1919 1914	153 193			66	72		15 183	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.

	ro	TAL.					TE	STABLIS	HMENTS :	EMPLOY	MG—				
STATE.	Estab-	Wage earners (average	No wage earn- ers.	ea.ri	o 5 nge ners, nsive.	wa ear	o 20 age aers, asaye.	w ear	to 50 rage ners, usive.	ear	o 100 rage ners, usive.	ear	to 250 rage mers, usive.	ear	to 500 rage ners, usive.
	ments.		Estab- lish- ments.	lish-	earn-	Estab- lish- ments.	Wage earn- ers.	Estab- lish- ments.	Wage earners,	Estab- lish- ments.	Wago	Estab- lish- ments.	oomnere	Estab- lish- ments.	earn-
United States		2,566 2,145	3 2	21 13	49 29	21 18	237 224	20 23	690 829	8 4	601 248	4 3	682 463	1	307 352
Connecticut. Massachusetts. New York. Ohio. Pennsylvania	9 23 14 3 9	623 380 504	1 1	4 4 5	5 7 17	1 8 2	8 93 19	2 8 3	67 295 107	1 1 3 1	84 59 237 54	1 1	139 169 143	1	307

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

VALUE OF PRODUCT,		UMBER BLISUMI			GE NUMB		YAL	UE OF PRODU	CTS.	VALUE ADI	DED BY MANU	FACTURE.
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Wool shoddy		64	80	2,566	2, 145	1,923	\$23, 254, 398	\$7,706,843	\$ 6,854,993	\$7,178,083	\$2,406,940	\$2,315,014
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	11 10 21 23 8 5	6 14 21 20 3	14 19 25 } 22	15 32 232 754 543 990	8 84 514 } 1,539	27 124 493 1,279	30,278 118,575 1,053,599 6,389,138 5,915,218 9,747,590	15,887 159,942 1,226,158 4,182,864 2,121,992	40,021 196,815 1,332,960 } 5,285,197	$\begin{array}{c} 22,439 \\ 91,394 \\ 551,514 \\ \{ \begin{array}{c} 2,315,190 \\ 1,696,417 \\ 2,501,120 \end{array} \end{array}$	12,867 92,761 537,430 } 1,763,882	22, 953 112, 018 547, 497 1, 631, 946
							PER CENT	ISTRIBUTION,				
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 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	14. 1 12. 8 26. 9 29. 5 10. 3 6. 4	9. 4 21. 9 32. 8 31. 2 4. 7	17.5 23.8 31.2 } 27.5	0.6 1.2 9.0 29.4 21.2 38.6	0. 4 3. 9 24. 0 71. 7	1. 4 6. 4 25. 7 66. 5	0.1 0.5 4.6 27.5 25.4 41.9	0. 2 2. 1 15. 9 54. 3 27. 5	0.6 2.9 19.4 }	0.3 1.3 7.7 32.3 23.6 34.8	0. 5 3. 9 22. 3 73. 3	1. 0 4. 9 23. 6 70. 5

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

				AVE	RAGE N	UMBER	OF WA	GE EA	RNERS.			IAV	UE OF PRODU	octa.			
State.	Indi- Corvid- pora- uals. tions					tablishn wned by		Per c	ent of	total.		Of estab	lishments ow	ned by—	Per ce	ent of t	otal.
	Indi- Cor- vid- pora- o uals. tions e				Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All others.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	oth-
	ates 1910 26 36 1914 19 30 1900 36 29				230 281 518	2,005 1,583 1,000	331 281 345	9.0 13.1 26.9	78, 1 73, 8 55, 1	12.9 13.1 17.9	7,706,843	1,045,922	\$18, 207, 275 5, 177, 865 3, 452, 251	\$3,124,724 1,483,056 1,272,539	8, 3 13, 6 31, 1	78.3 67.2 50 4	13.4 19.2 18.6
Connecticut Massachusetts New York Pennsylvania Rhode Island	Indi-Corvid-pore uals. ition ad States. 1919 28 38 1914 19 30 1914 19 30 1914 19 30 1914 19 30 1914 19 30 1914 19 30 20 38 20 1914 1914 1914 1914 1914 1914 1914 191				14 81 8 1 31	1 289 513 234 2 103 39	20 138 50	4.6 13.0 2.1 44.3	95. 4 82. 3 61. 6 67. 3 55. 7	4. 7 36. 3 32. 7	3,761,820 5,514,555 3,058,292 1,374,996 444,795	37, 226 690, 791 26, 479	1 3,724,594 4,722,055 1,493,984 2788,875 93,347	101,709 1,537,829 586,121	1.0 12.5 0.9 79.0	99. 0 85. 6 48. 8 57. 4 21. 0	1, 9 50, 3 42, 6

[&]quot;Includes the group "All others."

Includes the group "Individuals."

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

	NUMBER O	engines o	R MOTORS.			HORSEPOW	ER.		
POWER.	1919	1914	1000		Amount.		Per ce	nt distribu	tion.
	1315	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total		168	153	16,694	12, 440	12,535	100.0	100, 0	100.0
Owned Steam 1 Engines. Turbines. Internal-combustion engines. Water wheels, turbines, and motors.	45	106 61 (2) (2) (2) 1 44	136 77 (2) (2) (2) 1 58	9, 569 6, 544 6, 414 130 76 2, 949	10, 748 7, 498 (2) (2) (2) 20 3, 230	11,822 7,785 (2) (2) (3) (5) 3,987	57.3 39.2 38.4 0.8 0.5	86.4 60.3 (2) (2) (2) 0.2 26.0	94.3 62.1 (2) (2) 0.4 31.8
Rented Electric Other	326	62 62	17 17	7, 125 6, 998 127	1,692 1,496 196	713 545 168	42.7 41.9 0.8	13, 6 12, 0 1, 6	5.7 4.3 1.3
Electrie Rented. Generated by establishments reporting.	392 326 66	84 62 22	26 17 9	9, 199 6, 998 2, 201	1,916 1,496 420	738 545 193	100.0 76.1 23.9	100. 0 78. 1 21. 9	100. 0 73. 8 26, 2

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

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

Benefit of 18 books to 78 c proceeding the second of the common of the company of the second of the second of the											
		OAL.					C	OAL.			
STATE.	Anthra- cite (tons, 2,240 pounds).	Bitumi- nous (tons, 2,000	Coke (tons, 2,000 pounds).	Oil, in- cluding gasoline (barrels).	Gas (1,000 cubic feet).	STATE.	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Oil, in- cluding gasoline (barrels).	Gas (1,000 cubic feet).
United States1919 1914	6,813 9,956	45,060 41,042	535	225 125	4,513 65,466	New York. Ohio Pennsylvania	840	1,950 14,103 2,922	250	8 217	4,513
Connecticut	157	6,399 10,959				Rhode Island All other states 1		380 8, 947	285		

¹ 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 | tity and cost of materials used, the quantity and value equipment.—Comparative statistics for 1919 and 1914 are presented in Table 69 with reference to the quan- | to the wool-shoddy industry.

of products, and the machinery equipment common

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.		1	
Total cost	\$16,076,315	\$5, 299, 903	203.3	Total value	2 \$ 23, 254, 398	² \$7,706,843	201.7
Rags, clippings, etc.: Pounds. Cost. Wool and other noils and wool waste: Pounds.	63, 244, 868 \$12, 173, 784 12, 361, 895 \$1, 607, 053	57, 367, 962 \$3, 103, 864 6, 879, 366 \$863, 633	10. 2 292. 2 79. 7 86. 1	Recovered wool fiber: Pounds. Value. Carbonized rags (wool extract): Pounds Value.	58, 786, 504 \$20, 644, 001 19, 786 \$8, 092	43, 156, 037 \$5, 977, 284 4, 627, 568 \$636, 332	36.2 245.4 99.6 98.7
Cost. Recovered wool fiber: Pounds	394, 546	1,658,432	76.2	All other products, value	\$1,503,481	\$686,527	119.0
Polinics Cost. Wool (in condition purchased): Pounds Cost. Equivalent of above in sceured condition,	\$13, 164 181, 052 \$164, 686	\$168, 457 203, 868 \$81, 514	-92.2 -11.2 102.0	Amount received from contract work for others on materials or goods furnished by them. EQUIPMENT.	\$1,098,824	\$406,700	170.2
Equivalent of above in scoured condition, pounds. Chemicals and dyestuffs, cost	181,052 \$489,967 \$1,627,661	203, 868 \$103, 849 \$978, 586	-11.2 371.8 66.3	Cards, number of sats. Pickers, number. Garnett machines, number.	554 337 1 <i>5</i> 7	574 315 178	-3.5 7.0 -11.8

¹ A minus sign (--) denotes decrease.

4 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.

² Corresponding figures not available.

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
Total	Pounds. 81, 260, 225	Pounds. 84, 836, 759
For sale	60, 881, 303	44,049,410
By wool-shoddy millsBy other mills	58, 780, 504 2, 094, 799	43, 156, 037 893, 373
For use in same establishment	20, 378, 922	40,787,349
By establishments manufacturing primarily: Woolen goods. Worsted goods. Felt goods. Carpots and rugs.	17, 605, 485 476, 460 1, 394, 811 842, 166	39, 616, 226 464, 029 707, 094

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, 299, 316	100.0	378, 652, 196	100.0
Scoured wool	295, 388, 119	83.6	307, 705, 932	81.3
Recovered wool fiber. Purchased Made in establishments using	57, 911, 197 37, 532, 275 20, 378, 922	16. 4 10. 6 5. 8	70, 946, 264 30, 158, 915 40, 787, 349	18.7 8.0 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, horse-power, 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-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	STATE.	Cen- sus year,	Num- ber of estab- lish-	Wage earn- ers (aver- age	mary horse-	Wages.	Cost of mate- rials.	Value of prod- uets.
	year.	lish- ments.	age num- ber).	power.	E	xpressed housand	l in s.		year.	ments.		power.	E:	rpressed housand	in s.
United States	1919 1914 1909	78 64 80	2,566 2,145 1,923	16,694 12,440 12,535	\$2,053 1,056 864	\$16,076 5,300 4,540	\$23,254 7,707 6,855	New York	1919 1914 1919	14 11 3	380 283 504 523	3,213 1,891 1,325	\$354 145 485 255	\$1,914 768 2,355 820	1,110 3,720
Connecticut	1919 1914	9	303 135	2,593 1,491	287 66	3,111 228	3,762 341	Pennsylvania	1914 1919 1914	5 9 12	523 153 193	1,410 872 1,307	255 184 98		1,353 1,375 959
Massachusetts	1919 1914	23 17	623 446	4,419 3,100	685 240	3,700 1,267	5,515 1,903	All other states	1919 1914	20 13	603 565	4,272 3,235	658 252	4,171 1,448	5,824 2,041

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

				PERSO	ns eng	AGED	IN THE	INDU	STRY,			WAGE	EAR ST RE	ners Prese	ALY, DEC	. 15, TIVE	OR DAY,				expen:	ses,
	Num-			Salaried	Clerk	s, etc.		Wag	earner	g.			16 a	nd ov	r.	Unde	r 16.			Sala	riesan	id wages
STATE.	ber of estab- lish- ments.		Pro pri tor	s super	_			Nu	mber, 15	ith da	y of—							Car	ital.			
	ments.	Total	l. an firi mei ber	a tend- n-ents	Maie.	Fe- male.	Aver- age num- ber,	Ma: m	ximum onth.		imum nth.	Total.	Ma	le. F	9- 10.	Male	Fo- male			om	cials.	Olerks, etc.
United States	78	2,95	6 6	4 163	107	56	2,566	De	2,669	Fe	2,405	2,709	2,2	29 4	38	5	37	\$16,9		_	2,935	\$264, 288
Connecticut. Massachusetts. New York. Ohio Pennsylvania Rhode Island. All other states 1	3 (33 74 44 56 19 8 59	0 1 3 1 3 3 3 1	7 16 6 53 1 30 1 9 3 17 7 5 0 33	6 32 12 34 9 1	7 16 10 15 1	303 623 380 504 153 70 533	My De Se Ja De De	677 421 520 170	Fo Fe Mh Se Ap Fe	265 578 339 493 143 64	299 711 405 498 161 91 544	6 3 3 1	09 66 32 32 90	29 65 39 66 28 1	2 2	2 35	2,6 4,7 1,8 2,6 1,0 3,7	84,641 81,554 72,358 18,049 77,203 90,298 15,710	8 28 12 5 5 5 14	4,638 1,003 2,357 4,069 1,987 4,500 4,401	12,605 58,317 21,474 127,694 15,612 120 28,376
			1	XPENSE	s-cont	inued	•											POV	VER.			and the state of t
	Salar				•								į			Pr	lmary	horse	powe	r.		Elec-
STATE.	Wages	3		Renta	nd taxe	98.	For ma	oteri	als.	 Val	ue of	Valu added					0	wned				horse- power
	Wag earne	se rs.	For con- cract vork.	Rent of factory.	Taxe Feder state count and local	al, y, P m	rincipal aterials	r	iel and ent of ower.	prod	lucts.	manui ture		Tota	۱.	Stean en- gines (not tur- bines	Stee tu bin	am ec r- b es. ti	us-	Wa- ter pow- er.2	Rent- ed.	ated in
United States	\$2,653,	169 \$1	4,695	54,760	\$703,4		5,572,310	_	04,005	\$23,2	54, 398	\$7, 178,	083	16,60	والحج	6,414	1	.30	76	2, 949	7,125	2,201
Connecticut. Massachusetts Now York. Ohio Pennsylvania. Rhode Island. All other states 1	. 684, 353, 484, 183,	722 695 668 585 1	1,805 2,702 188	5,484 13,673 1,020 12,820 3,253 18,510	19,0 199,7 40,0 204,0 4,3 1,5 234,6	65 1 91 2 52	3,033,078 3,573,404 1,856,727 2,269,668 798,660 224,442 3,816,33	7 5 0 2	78, 107 26, 404 56, 952 85, 247 20, 373 20, 618 10, 304	5,5 3,0 3,7 1,3	61,820 14,555 58,292 20,046 74,990 44,795 79,894	050, 1,814, 1,144, 1,365, 549, 199, 1,453	747 613 134 ,963 ,735	2,58 4,41 3,21 1,33 8,5 3,7	3 5 2 4	1,660 1,670 755 705 1,045	5		60	765 905 337 172 770	1,299 1,794 1,190 570 167 322 1,785	1,691 109

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).

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WOOL PULLING.

Comparative summary and detailed statement.—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; and Table 75 shows detailed statistics, by states.

TABLE 74.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

						PE	R CENT OF	INCREASE	,1
	1919	1914	1909	1904	1899	1914- 1919	1909- 1914	1904- 1909	1899- 1904
Number of establishments	24	34	37	34	34				
Persons engaged Proprietors and firm members Saloried employees. Wage earners (average number)	839 23	823 31	759 37	786 40	541 31	1,9	8.4	-3, 4	45.3
Salaried employees, Wage earners (average number)	111 705	84 708	91 031	65 681	35 475	32, 1 -0, 4	12, 2	-7.3	43. 4
Primary horsepower	2, 162 \$8, 853, 437	2,248 \$3,534,203	1,366 \$3,247,928	1,324 \$2,534,029	820 \$ 944,715	-3.8 150.5	64.6 8.8	3.2 28.2	61.5 168,2
Salaries and wages. Salaries. Wages.	1, 192, 996 283, 208 909, 788	595, 596 143, 406 452, 190	518, 511 131, 596 386, 915	439, 169 74, 415 364, 754	283, 372 35, 422 247, 950	100.3 , 97.5 101.2	14.9 9.0 16.9	18.1 76.8 6.1	55.0 110.1 47.1
Paid for contract work Rent and taxes Cost of materials Value of products Value added by manufacture 4	180, 604 12, 800, 502	16, 621 34, 829 6, 632, 101 8, 272, 721 1, 640, 620	22, 460 33, 241 4, 103, 250 5, 180, 856 1, 077, 606	2 22, 185 103, 984 881, 706 777, 722	300 2 13, 020 53, 975 531, 287 477, 312	-18.0 418.5 93.1 109.9 177.4	-26.0 4.8 61.6 59.7 52.2	(3) (3) 38.6	

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

TABLE 75.—DETAILED STATEMENT, BY STATES: 1919.

			1	Salaries ried officers, etc. Wags earners. 16 and over. Under 16. Salaries ried officers, Salaries rie												XPENS	ES.				
	Num-				Clerk	s, etc.		Wage	earne	rs.			16 and	over.	Und	er 16.			Salari	es and	wages.
STATE	ber of estab- lish-	-	Pro- prie- tors	offi- cers, super-				Numl	oer, 15	th day	y of	!					Caj	pital.			
++1	ments.	Total.	and firm mem- bers.	in- tend- ents, and man- agers.	Male.	Fe- male.	Average num- ber.	Maximon		Mini mo	mum nth.	Total.	Male.	Fe- male.	Male	Fc- male			Offici	als.	Clerks, etc.
United States	24	839		55	42	14	705	De	831	Je	613	831	827	4			\$8,8	53, 437	\$193,	335	\$89,873
Illinois. New Jersey Pennsylvania. All other states 1.	5 3 4 12	69 131 169 470	6	6 9 8 32	2 5 35	1 13	56 119 150 380	De My De	83 142 171	My Ja Mh	30 84 116	83 132 171 445	83 130 171 443	2			1, 6 6, 0	87, 822 97, 948 38, 716 928, 951	41, 25.	089 935 406 905	2,840 4,144 9,927 72,962
				EXPEN	SES-C	ontinu	ed.								_			POWI	R.		
	Salaries wages		-	Rei	ıt and	taxes.		For ma	terials	•						Pri	lmary	horsep	ower.		Elec-
STATE.			For								Val	ne of	Valu added man	by			C	wneđ.			trie horse- power
	Wa earn	ge	ontract work.	Rent	of	Taxes, Federal state, county, and local.	Pri	ncipal terials.	ren	uel nd it of wer.	,	ucos.	factur	re.	Total	gi a	eam ines ind ur- nes.	Internal- com- bus- tion en- gines.	Water pow- er.2	Rent- ed.	generated in establishments reporting.
United States			\$13,636	\$20,	941	\$159,66		730, 810		3,782		61,231	\$4,551	, 639	2, 16	2 1	, 320	150	120	572	160
Illinois New Jersey Pennsylvania All other states 1	. 215	,225 ,440 ,714 ,409	13,636	10,	780 875 625 661	1, 27 6, 39 36, 08 115, 92	2 1, 1 1, 0 4, 0 6,	113, 690 510, 764 020, 391 085, 965	18 20 39	1,504 3,997),471),810	1,3 2,0 3 5,6 8 8,3	14,367 53,193 04,276 89,395	196 . 528 1,563 2,263	,173 ,432 ,414 ,620	54 32 1,20	3	35 535 260 490	150	120	55 8 60 449	160

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

All other states embrace: California, 2 establishments; Indiana, 1; Maine, 2; New York, 2; Ohio, 2; Oregon, 1; Utah, 1; Washington, 1.

Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

WOOL SCOURING.

Comparative summary and detailed statement.—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 industry in Table 76; and Table 77 shows detailed statistics, by states.

TABLE 76.—OOMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

					•	PE	R CENT OF	INCREASE	,1
	1919	1914	1909	1904	1899	1914- 1919	1909- 1914	1904- 1909	1899- 1904
Number of establishments	33	24	28	27	25				
Persons engaged Proprietors and firm members	2, 407	- 1,194	1,262 18	852 18	776 11	101.6	—5.4	48.1	9.8
Persons engaged Proprietors and firm members Salaried employees. Wage earners (average number).	221 2, 177	124 1,059	102 1,142	55 779	45 720	78.2 105.6	21.6 -7.3	85. 5 46. 6	8.2
Primary horsepower	9,790 \$10,049,960	7,579 \$3,493,474	6,782 \$3,257,585	3,478 \$1,187,716	2,900 \$1,061,123	29. 2 187. 7	11.8 7.2	95.0 174.3	19.9 11.9
Salaries and wages Salaries Wages	3, 623, 627 727, 174 2, 896, 453	778, 147 161, 554 616, 593	700, 364 142, 646 557, 718	475, 505 77, 694 397, 811	410, 617 72, 611 338, 606	365.7 350.1 369.8	11.1 13.3 10.6	47.3 83.0 40.2	15.8 7.9 17.5
Paid for contract work. Rent and taxes. Cost of materials. Value of products.	509, 497 7, 228, 350	9, 889 44, 389 3, 176, 438 4, 565, 412	12,442 29,660 2,122,102 3,289,215	² 25, 461 214, 624 1, 052, 909 838, 285	2 39, 245 193, 826 889, 809	-53.5 1,047.8 127.6 199.6	-20.5 49.7 49.7 38.8	(a) (a) 39, 2	(a) (a) (a) 20. 4
Value of products. Value added by manufacture 4	6, 451, 234	1, 388, 974	1, 167, 113	838, 285	695, 983	364.5	19.0	39.2	20.4

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

TABLE 77.—DETAILED STATEMENT, BY STATES: 1919.

			1	Person	s ENG	AGED :	IN THE	INDUST	RY.			WAGI	e earne Strepri	RS DE	C. 15, ATIVE	OR DAY.			EXPENS	es.
	Num-			Sala- ried	Clerk	s, etc.		Wage	earne	ers.		,	16 and	over	Und	e r 16.		Sala	rles and	l wages.
STATE,	ber of estab- lish-		Pro- prie- tors	offi- cers, super-				Num	ber, 15	th de	ny of—						Capital.			
	ments.	Total.	and firm mem- bers.	tend- ents, and man- agers.	Male.	Fe- male.	Average num- ber	Maxi mor			imum onth.	Total.	Male.	Fe- male	Male	Fo- male		ome	dals.	Clerks, etc.
United States	33	2,407	9	99	70	52	2,177	Au	2, 553	Mh	1,658	2, 554	2,369	185			\$10,049,960	\$52	3, 681	\$203,49
California	3 13 17	96 1,074 1,237	1 4 4	6 43 50	9 61	3 6 43	86 1,012 1,079	Au De	108 1,195	Mh Mh	28 758	90 1,195 1,269	56 1,161 1,152	34 34 117			198, 402 2, 679, 702 7, 171, 856	215 295	, 985 , 785 , 911	3, 575 19, 370 180, 548
				EXPEN	sesc	ontinu	ed.										POW	ER.		
	Salaries wages			Ren	t and	taxes.		For mat	terials							Prin	mary horse	ower.		Elec-
STATE.			For								Valu	1e of	Value added h manu	ov II			Owned			tric horse- power gener-
4	Wag earne	e cor	itract ork.	Rent factor	of c	Faxes, ederal, state, ounty, and local.	Pri	ncipal erials.	Fu an ren pow	id t of	jar du.	nots.	facture	· [Total.	Ster er gin an tu bin	com- bus- tion	Water pow- er.2	Rent- ed.8	ated in estab- lish- ments report- ing.
United States	\$2,896,	453 \$	4, 603	\$59,8	39 8	449, 658	\$6,7	789, 007	\$439	, 343	\$13,67	9, 584	\$6, 451, 2	234	9, 790	5, 8	865	875	3,050	574
California. Massachusetts. All other states 1	86, 1, 497, 1, 312,	574	4,603	9, 2 17, 9 32, 6	70 25 44	1, 460 210, 307 237, 891	5,8	94, 171 338, 883 355, 953	211	428 312 603	3,66	58, 359 19, 820 1, 905	156, 2 2, 619, 1 3, 675, 3	760 125 349	391 4,628 4,771		275 295 295	875	116 1,458 1,476	150 424

¹ All other states embrace: Delaware, 1 establishment; Illinois, 4; Kentucky, 1; New Jersey, 2; New Mexico, 1; New York, 1; Ohio, 1; Oregon, 2; Pennsylvania, 3; Wisconsin, 1.

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).

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

CORDAGE AND TWINE, JUTE GOODS, AND LINEN GOODS.

By ARTHUR J. LECK.

GENERAL STATISTICS.

General character of the industry.—The statistics presented in this report cover the operations of three classes of establishments, distinguished with respect to their primary products and designated as follows: (1) Cordage and twine; (2) jute goods; and (3) linen goods.

A large quantity of cordage and twine, more especially binder twine, is manufactured in penal institutions; but such institutions were not required to file returns, and their operations are not included in this report except for the quantity and value of products reported by establishments that furnished materials and had the work done by such institutions on a contract basis.

Importance and growth of the industry.—The progress of the industry from 1899 to 1919 is shown in Table 1, combined as one industry, with separate statistics for each branch. The cordage and twine unit is the largest of the three and in 1919 employed 66.1 per cent of the average number of wage earners, and reported 76.3 per cent of the value of products for the group. A detailed account of the items presented in this table will be found in the succeeding tables.

Principal states, ranked by value of products.— Measured by value of products, Massachusetts was the leading state in 1919 in the manufacture of cordage and twine, jute goods, and linen goods, as shown in Table 2. During that year the combined value of products for the three states—Massachusetts, New York, and New Jersey—formed over one-half of the total output in the United States.

There are states which rank higher in value of products than some that are shown in the table, but data for such states could not be presented without disclosing the operations of individual establishments.

Persons engaged in the industry.—Table 3 shows comparative statistics for 1919, 1914, and 1909 with reference to the number of persons, both male and female, engaged in the industry.

Wage earners, by months, for selected states.—A monthly account of the number of wage earners employed in the industry is given in Table 4 according to the principal states.

Prevailing hours of labor.—Table 5 shows the changes which have taken place in five years with respect to the number of hours of employment for the industry in the United States and for selected states during 1919.

Size of establishments, by average number of wage earners.—Table 6 gives the distribution of the number of wage earners, by states, for 1919 and comparatively for the United States for 1919 and 1914, showing a slight deflection in the total employed in the industry in 1919.

Size of establishments, by value of products.—Table 7 reveals the fact that 81.2 per cent of the total value of products for the industry, in 1919, was manufactured by less than one-fourth of the total number of establishments. Figures are also shown for 1914 and 1909.

Character of ownership.—The corporate form of ownership largely predominated in this industry, figures for which are shown in Table 8 for the years 1919, 1914, and 1909.

Number and horsepower of types of prime movers.— The types of prime movers are shown in Table 9, with number of engines or motors and horsepower for each kind of power used in 1919.

Fuel consumed, by states.—Statistics on the quantity of various kinds of fuel used in the industry during 1919 are shown in Table 10.

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

						PEI	R CENT OF	INCREASE	,1
	1919	1914	1909	1904	1899	1914- 1919	1909- 1914	1904- 1909	1899- 1904
Cordage and Twine, Jute Goods, and Linen Goods.						•			
Number of establishments Persons engaged Proprietors and firm members	28, 889 42	28, 909 57	26, 193 72	133 25, 554 54	141 21,644 100	-2.5 -0.1	6.0 10.4	13. 5 2. 5	-5.7 18.1
Number of establishments Persons engaged Proprietors and firm members Salaried employees Wage earners (average number) Primary horsepower Capital Salaries and wages Salaries Wages Prid for contract work Ront and taxes Cost of materials Value of products Value added by manufacture 3	2, 197 26, 650 104, 847 \$149, 112, 428 28, 230, 830 5, 458, 841	1, 529 27, 323 93, 937 \$98, 561, 044 13, 886, 970	1, 255 24, 866 77, 091 \$73, 552, 315 10, 628, 783 1, 785, 541 8, 843, 242	992 24,508 65,984 \$54,423,531	641 20, 903	43.7 -2.5 11.6 51.3 103.3	21. 8 9. 9 21. 9 34. 0 30. 7	26.5 1.5 16.8 35.1 5.5	54. 8 17. 2 38. 2 29. 6 38. 2
Salaries. Wages. Paid for contract work Bant and tayes	5, 458, 841 22, 771, 989 323, 358 7, 601, 979	2, 445, 247 11, 441, 723 21, 810 701, 740	1, 785, 541 8, 843, 242 13, 375 575, 849	1, 494, 732 8, 580, 785 253, 944 2 465, 129	\$41, 991, 762 7, 288, 931 957, 190 6, 331, 741 26, 118 2 881, 423	123, 2 99, 0 983, 3	37. 0 29. 4 21. 9	19.5 3.1 23.8	56. 2 35. 5 21. 9
Value of products Value of products Value added by manufacture 3	111, 604, 303 174, 807, 220 63, 202, 917	60, 474, 417 83, 235, 068 22, 760, 651	39, 536, 892 59, 121, 989 19, 585, 007	44, 890, 546 62, 939, 329 18, 048, 783	32, 197, 885 47, 601, 607 15, 403, 722	84. 5 110. 0 177. 7	53.0 40.8 16.2	-11.9 -6.1 8.5	39. 4 32. 2 17. 2
CORDAGE AND TWINE.		==			اسفضد				
Number of establishments	120 19,232 29	105 16, 849 38	112 15,559 61	102 15,396 51	105 13,627 77	14.3 14.1	-6.3 8.3	9, 8 1, 1	-2.9 13.0
Number of establishments Persons engaged Proprietors and firm members Salaried employees Wage earners (average number) Primary horsepower Capital Salaries and wages Salaries Wages Pald for contract work Rent and taxes Cost of materials Value of products Value added by manufacture 2	1, 581 17, 622 66, 643 \$100, 248, 562 18, 715, 562 4, 015, 501 14, 700, 061 270, 017	1,042 15,769 55,377 \$72,472,169 8,624,886 1,629,290 6,995,566	869 14,029 47,239 \$52,304,038 6,505,512 1,201,122 5,304,390 13,375 313,892	731 14,614 41,041 \$37,110,521 6,338,038 999,860 5,338,178	4861 13,114 33,657 \$29,275,470 4,780,0481 066,936 4,113,112 3,721 223,604	51. 7 11. 8 20. 3 38. 5 117. 0 146. 5 110. 1	19, 9 7, 8 17, 2 38, 6 32, 6 35, 6 31, 9	18.9 0.1 15.2 40.9 2.6 20.1 —0.6	67. 7 11. 4 21. 9 26. 8 32. 6 49. 9 29. 8
Paid for contract work Rent and taxes Cost of materials Value of products Value added by manufacture *	270, 617 6, 235, 378 80, 705, 282 133, 366, 476 43, 061, 194	1,455 457,018 43,605,473 59,761,486 16,156,013	18,375 313,892 29,315,402 41,941,541 12,626,139	5, 338, 178 252, 472 2 256, 513 36, 095, 747 48, 017, 139 11, 921, 392	3,721 2 223,604 26,632,006 37,849,651 11,217,645	1,264,4 105.7 123.2 170.2	45. 6 48. 7 42. 5 28. 0	22. 4 —18. 8 —12. 7 5. 9	14. 7 35. 5 26. 9 6. 8
JUTE GOODS.	or.		24	16	18		}		
Number of establishments Persons engaged Proprietors and firm members	7,587 13	8,307 17 303	6,901 10 227	6,238 3 152	4,008 12 88	-8,7 43,9	20.4	10.6	35. 4 72. 1
Number of establishments Persons engaged Proprietors and firm members Salaried employees. Wage earners (average number) Primary horsepower Capital Salaries and wages Salaries. Wages Paid for contract work Rent and taxes Cost of materials. Value of products Value added by manufacture 2	436 7,138 32,135 \$41,335,845 7,550,301 1,114,015 6,436,286	7,987 28,628 \$17,279,006 3,575,814 515,304 3,000,010	\$13,789,951 20,993 \$13,789,951 2,701,172 375,531 2,325,641	6,083 18,810 \$11,019,132 2,248,027 330,041 1,917,986	4,506 8,191 87,027,293 1,329,103	-10.6 12.3 139.2 111.2 116.2 110.3	19. 9 36. 4 25. 3 32. 4 37. 2	9. 6 11. 6 25. 1 20. 2 13. 8 21. 3	35.0 129.0 56.3 69.
Paid for contract work. Rent and taxes Cost of materials. Value of products. Value added by manufacture 2	6, 436, 286 46, 741 1, 194, 102 17, 708, 834 34, 442, 698 10, 733, 864	19, 781 164, 801 12, 579, 840 16, 513, 874 3, 934, 034	204, 120 6, 254, 918 10, 795, 230 4, 540, 312	2 159, 342 5, 054, 130 9, 065, 802 4, 011, 672	1, 181, 790 22, 397 2 98, 004 3, 015, 362 5, 383, 797 2, 308, 435	624. 0 40. 8 108. 0 325. 4	101. 1 53. 0	28. 1 23. 8 19. 1 13. 2	67. 68.
LINEN GOODS.	}	01	1	1.	18				
Number of establishments Persons engaged	2,070	3,753 2	3,733 1	3, 920	3,411 11	1	l. 		
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Paid for contract work. Rent and taxes. Cost of materials. Value of products. Value added by manufacture.	180 1,890 6,069 \$7,527,596 1,904,967 329,325 1,635,642	184 3,567 0,932 \$8,809,869 1,686,770 300,653	3,573 8,829 \$7,457,426 1,422,099 208,888	3,811 6,133	1 110	-2. -47. -38. -14. 16,	9 12.5 6 18.1 5 18.6 5 43.9	0.5 44.0 18.1 4,1 26.	2 16. 3 4. 5 10. 5 26. 7 15.
Paid for contract work Rent and taxes Cost of materials Value of products Value added by manufacture 8	172, 499 4, 190, 187 6, 998, 046 2, 807, 859	1, 386, 117 574 70, 921 4, 289, 104 6, 959, 708 2, 670, 604	57,837 3,966,572 6,385,218	1, 522 2 49, 274 3, 740, 669 5, 856, 388 2, 115, 719	1 2.000.011	115	3 8.1 3 9.0	9.0) 46.) 34.

¹ A minus sign (—) denotes decrease; percentages are not shown where base is less than 100, or where figures are not strictly comparable.

2 Exclusive of internal revenue.

3 Value of products less cost of materials.

TABLE 2.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

	of ents.	EAI	/AGE RNERS.			UE OF DUCTS.			LLVE ED BY FACTUI			r of sents.	EA	VAGE RNERS	1.	PRO	UE OF		MANUI	LUE ED BY ACTUR	æ.
STATE.	Number of establishments.	Average number.	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	STATE	Number of establishments.	Average number.	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rsnk.	Amount (expressed in thousands).	Per cent distribution.	Rank.
United States Massachusetts New York. New Jersey. Pennsylvania.	19 22 9	26,650 6,850 4,791 3,034 2,763	100.0 25.7 18.0 11.4 10.4	1 2 3 4	47, 151 31, 154	27.0 17.8 10.0 8.2	1 2 4 5	\$63, 203 17, 561 11, 969 6, 220 6, 101	100.0 27.8 18.9 9.8 9.7	1 2 4 5	Alabama Connecticut Kentucky Rhode Island All other states	4 9 4 5 57	475 348 469 126 7,795	1.8 1.3 1.8 0.5 29.2		\$2, 231 1, 933 1, 844 645 58, 045	1.3 1.1 1.1 % 0.4 83.2	11 12 13 21	\$650 495 902 195 19,110	1.0 0.8 1.4 0.3 30.2	12 13 11 21

TABLE 3.—FERSONS ENGAGED IN THE INDUSTRIES: 1919, 1914, AND 1909.

	Cen-		·	Fe-	PER OF TO			Cen-			Fe-	PER O	
GLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male,	CLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male.
CORDAGE AND TWINE, JUTE GOODS, AND LINEN GOODS.							JUTE GOODS.						
Total	1919 1914 1909	28, 889 28, 909 26, 193	16, 112 15, 879 14, 291	12,777 13,030 11,902	55.8 54.9 54.6	44.2 45.1 45.4	Total	1919 1914 1909	7,587 8,307 6,901	3,577 4,075 3,186	4,019 4,232 3,715	47.1 49.1 46.2	52.9 50.9 53.8
Proprietors and officials	1919 1914 1909	892 546 442	870 535 430	22 11 12	97.5 98.0 97.3	2. 5 2. 0 2. 7	Proprietors and officials	1919 1914 1909	149 115 64	148 113 63	1 2 1	99. 3 98. 3 98. 4	0.7 1.7 1.6
Proprietors and firm members	1919 1914	42 57 72	40 54	2 3	95.2 94.7	4. 8 5. 3	Proprietors and firm members	1919 1914 1909	13 17 10	13 16 10	i	100, 0 94, 1 100, 0	5.9
Salaried officers of corporations	1909 1919 1914	214 176	206 169	8 8 7	96.3 96.0	3.7 4.0	Salaried officers of corporations.	1919 1914 1909	29 38 22	28 37 21	1 1 1	96.6 97.4 95.5	3.4 2.6 4.5
Superintendents and managers	1909 1919 1914	145 636 313 225	141 624 312	12 1	97.2 98.1 99.7	2, 8 1, 9 0, 3	Superintendents and managers	1919 1914 1909	107 60 32	107 60 32		100.0 100.0 100.0	
Clerks and other subordinate salaried employees.	1909 1919 1914 1909	225 1,347 1,040 885	225 837 747 676	510 293 209	100.0 62.1 71.8 76.4	37. 9 28. 2 23. 6	Clerks and other subordinate salaried employees.	1919 1914 1909	300 205 173	189 158 137	111 47 36	63. 0 77. 1 79. 2	37. 0 22, 9 20. 8
Wage earners (average number)	1919 1914	28,650 27,323 24,866	14, 405 14, 597	12,245 12,726 11,681	54.1 53.4	45. 9 46. 6	Wage earners (average number)	1919 1914 1909	7, 138 7, 987 6, 664	3, 240 3, 804 2, 986	3,898 4,183 3,678	45. 4 47. 6 44. 8	54. 6 52. 4 55. 2
16 years of age and over	1909 1919 1914	24,800 25,705 26,195 23,267	13, 185 14, 002 14, 153	11,793 12,042	53. 0 54. 3 54. 0	47.0 45.7 46.0	16 years of age and over	1919 1914 1909	6,894 7,714 6,281	3, 136 3, 657 2, 765	3, 758 4, 057 3, 516	45, 5 47, 4 44, 0	54. 5 52. 6 56. 0
Under 16 years of age	1909 1919 1914 1909	855 1,128	12, 315 403 444 870	10, 952 452 684 729	52.9 47.1 39.4 54.4		Under 16 years of age	1919 1914 1909	244 273 383	104 147 221	140 126 162	42.6 53.8 57.7	57. 4 46. 2 42. 3
CORDAGE AND TWINE.	1909	1,599	- 810	120	04.4	45.6	Total	1919	2,070	998	1,072	48.2	51.8
Total	1919 1914 1909	19, 232 16, 849 15, 559	11,537 10,266 9,461	7,695 6,583 6,098	60.0 60.9 60.8	39.1	Proprietors and officials	1914 1909 1919	2,070 3,753 3,733 44	1,538 1,644 42	2, 215 2, 089	41.0 44.0 95.5	56.0
Proprietors and officials	1919 1914	699 373 331	680 364	19	97.3 97.6	2.7		1914 1909	58 47	58 47		100.0	
Proprietors and firm members	1909 1919 1914	29 38	320 27 36	11 2 2	98.7 93.1 94.7	6,9	Proprietors and firm members	. 1919 1914 1909	2	2 1		100.0	
Salaried officers of corporations.	1909 1919 1914	174 121	53 167 115	8 7 6	86.9 96.0	13.1	Salaried officers of corporations.	. 1919 1914 1909		11 17 15		100.0 100.0 100.0	
Superintendents and managers.	1909	108 498	105 486	10	95. 0 97. 2 98. 0	2.8	Superintendents and managers.	1919 1914 1909	39	31 39 31	2	93. 9 100. 0 100. 0	·
Clorks and other subordinate salaried	1914 1909 1919	214 162 911	213 162 575	336	99.5		Clerks and other subordinate salaried employees.	1919 1914 1909	128	73 97 90	63 31 23	53. 7 75. 8 79. 6	24.
employees.	1914 1909	707 599	492 449	215	89.6	30,4	Wage earners (average number)		İ	883 1,383 1,507			ļ
Wage earners (average number)	. 1919 1914 1909	17,622 15,769 14,629	10, 282 9, 410 8, 692	7,340 6,359 5,937	58.3 59.7 59.4	41.7 40.3 40.6	15 years of age and over	1914 1909 1914	1	II .		11	1
16 years of age and over	. 1919 1914 1909	17, 173 15, 121	II .	1	11	1	Under 16 years of age	1909	3,192	II		11	57.
Under 16 years of age	. 1919 1914 1909	449 648	236	213 421	- II	- 1		1919 1914 1909	162 207 381	63 70 159	99 137 222	33. 8 41. 7	9 61 3 66 7 58.

TABLE 4.-WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

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

	Ayer- age		NUMB	ER EMPLO	OYED ON	15TH DAY	OF THE	монтн о	R NEARES	T REPRES	ENTATIVI	DAY.		Per
STATE.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August	Sep- tember.,	Octo- ber.	Novem- ber.	Decem- ber.	mini- mum is of maxi- mum.
United States: 1919 Males Females 1914.	26, 650 14, 405 12, 245 27, 323	26,600 14,276 12,324 28,191	26, 257 14, 174 12, 083 28, 342	25, 936 14, 174 11, 762 28, 505	25,622 13,815 11,807 28,716	25,696 18,781 11,915 28,490	26, 137 14, 158 11, 979 28, 293	26, 739 14, 363 12, 376 27, 987	27, 072 14, 685 12, 387 24, 927	27, 127 14, 608 12, 519 25, 417	27, 285 14, 781 12, 504 26, 788	27, 452 14, 898 12, 554 26, 055	27,877 15,147 12,730 26,165	91, 9 91, 0 92, 4 86, 8
Cordage and twine: 1919. Males. Females. 1914. Jute goods:	17, 622	17, 896	17,639	17,372	17,034	17,079	17, 240	17, 494	17,606	17, 777	17, 889	18,045	18, 303	93. 1
	10, 282	10, 319	10,231	10,278	9,872	9,855	10, 091	10, 145	10,404	10, 359	10, 494	10,674	10, 762	91. 6
	7, 340	7, 677	7,408	7,094	7,162	7,224	7, 149	7, 349	7,292	7, 418	7, 395	7,471	7, 541	93. 6
	15, 769	16, 287	16,427	16,478	16,629	16,521	16, 516	16, 346	13,446	14, 028	15, 708	15,288	15, 555	80. 9
1910	7, 138	6, 895	6,747	6,708	6,702	6,753	7,099	7,337	7,513	7, 495	7,485	7,427	7,495	89.2
Males	3, 240	3, 117	3,062	3,027	3,047	3,078	3,239	3,343	3,404	3, 375	3,395	3,368	3,425	88.9
Females	3, 898	3, 778	3,685	3,681	3,655	3,675	3,860	3,994	4,109	4, 120	4,090	4,059	4,070	88.7
1914	7, 987	8, 221	8,234	8,308	8,383	8,366	8,326	8,266	8,060	7, 891	7,491	7,237	7,061	84.2
Linen goods: 1919 Males Females 1914	1,890	1,809	1,871	1,856	1,886	1,864	1,798	1,908	1,863	1,855	1, 911	1, 980	2,079	86.5
	883	840	881	869	896	848	828	875	877	874	892	956	960	86.2
	1,007	969	990	987	990	1,016	970	1,033	986	981	1, 019	1, 024	1,119	86.6
	3,567	3,683	3,681	3,719	3,704	3,603	3,451	3,876	3,422	3,498	3, 589	3, 530	3,549	90.8
Alabama.	475	443	446	446	447	485	528	522	538	528	418	440	475	76. 6
Connecticut.	348	334	331	338	330	332	343	362	366	362	359	360	359	90. 2
Kentucky	460	479	474	362	419	409	471	504	500	491	503	496	520	69. 6
Massachusetts.	6,850	6,668	0,854	7,041	6,952	0,835	6,786	6,862	6,900	6,762	6,837	6,819	6,904	94. 7
New Jersey	3,034	3,009	2,976	3,041	2,930	2,931	3,011	3,059	3,160	2,082	3,052	3,076	3,175	92. 3
New York		4,880	4,511	4,440	4,320	4,295	4,554	4,879	5,004	4,963	5,086	5,218	5,836	80. 5
North Carolina		654	651	637	652	653	650	774	787	770	781	776	789	80. 7
Pennsylvania		2,484	2,566	2,366	2,604	2,634	2,755	2,935	3,030	2,940	2,970	2,038	2,925	78. 1
Rhode Island		126	113	104	110	111	126	115	123	140	139	145	148	70. 3

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919.

		IN			NTS W			REVAIL ERE—	ING								THE PR		ING
STATE.	Total.	and un- der.	Be- tween 44 and 48.	48.1	Be- tween 48 and 54.	54	Be- tween 54 and 60.	60	Over 60.	STATE.	Total.	and and un- der,	Be- tween 44 and 48.	48,1	Be- tween 48 and 54.	54	Be- tween 54 and 60.	60	Over
United States 1919. 1914 Alabama Connecticut Rentucky Massachusetts	27, 323 475 348 469	(2)		69	65		157 214 460	<u> </u>		Now Jersey Now York North Carolina Pennsylvania Rhode Island	715	3		917	1,594 39	230	49 220	540	245

¹ Includes 48 and under for 1914.

TABLE 6.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR STATES: 1919.

	TC	TAL.							ES.	Pablisi	ements	EMPLO	YING		,				
STATE.	ants.	earners (average number).	No wage earn- ers.	1 to wa earn inclu	ige iers,	cai	to 20 rage ners, usive.	001	to 50 rage ners, usive.	ear	to 100 vage rners, lusive.	eal	to 250 vage ners, usive.	ga:	to 500 vage rners, lusive.	08)	to 1,000 rage rners, usive.	W	r 1,000 age ners.
	Establishments.	Wage earne num	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage carners.
United States1919 1914	156 160	26, 650 27, 323	3 1	8 20	15 52	25 24	340 322	36 38	1, 281 1, 363	27 22	1,983 1,692	30 33	4,673 5,423	17 10	6, 170 3, 854	5 7	3, 658 5, 027	5 5	8, 530 9, 590
Alabama. Connecticut Kentucky Massachusetts New Jersey New York North Carolina Pennsylvania Rhode Island	4 9 4 19 9 22 7 27	475 348 469 6,850 3,034 4,791 715 2,763 125	1	1 3	3 1 7	3 4 5 1 5	48 55 71 15 58 20	1 4 2 7 2 8	35 147 75 261 69 283 105	2 2 1 1 1 3 1 4	157 153 99 58 81 244 51 292	3 4 2 1 3	370 574 315 113 580 695	1 5 1	283 1,459 1,828 397 920	i 1	810 824 508	2	4,626 2,880

² Corresponding figures not available.

TABLE 7.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.		JMBER BLISHM			GE NUMB E EARNE		VALT	JE OF PRODU	rrs.	VALUE ADI	DED BY MANU	FACTURE.
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes	. 156	160	151	26,650	27, 323	24,866	\$174, 807, 220	\$83,235,068	\$59, 121, 989	\$ 63, 202, 917	\$22,760,651	\$19,585,097
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$											12, 848 80, 208 902, 443 7, 847, 180 10, 742, 418
·							PER CENT D	ISTRIBUTION.		 		
All classes	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 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	3, 8 3, 2 14, 7 42, 3 12, 2 23, 7	5, 6 11, 9 26, 9 36, 9 7, 5 11, 2	6.6 11.3 29.8 } 44.4 7.9	(1) (1) 1. 5 14. 1 9. 9 74. 5	(1) 0. 5 4. 4 34. 8 60. 2	0. 1 0. 5 5. 5 45. 1 48. 8	(1) (1) 0.8 9.9 8.1 81.2	(1) 0.3 3.0 16.3 11.4 69.1	(1) 0.3 4.4 39.2 56.1	(1) (1) 0.8 10.0 7.7 81.4	(1) 0.3 3.3 31.3 65.1	0. 1 0. 4 4. 0 40. 1 54. 8

¹ Less than one-tenth of 1 per cent.

TABLE 8.—CHARACTER OF OWNERSHIP: 1919, 1914, AND 1909.

CHARACTER OF OWNERSHIP.	Con- sus year.	Num- ber of estab- lish- ments,	Average number of wage earners.	Value of products.	Value added by manu- facture.	CHARACTER OF OWNERSHIP.	Cen- sus year.	estab-	Average number of wage earners.	Value of products.	Value added by manu- facture.
All classes	1919 1914 1909	156 160 151	26,650 27,323 24,866	\$174,807,220 83,235,068 59,121,989	\$63, 202, 917 22, 760, 651 19, 585, 097	Per cent distribution:	1919		2.7	2.2 2.4	2.1 3.2
Individual	1919 1914 1909	27 33 30	730 780 509	3,832,515 1,997,745 1,002,207	1,323,247 732,431 305,449	Corporation	1919		2.9 2.0 85.9	1.7 89.2	1.6 86.3
Corporation	1919 1914 1909	120 114 105	22,891 22,841 23,771	155, 964, 910 72, 823, 954 56, 948, 240	54, 564, 677 20, 254, 909 18, 807, 493	All other	1914 1909 1919			87. 5 96. 3 8. 6	89. 0 96. 0 11. 6
All other	1919 1914 1909	9 13 16	3,029 3,702 586	15,009,795 8,413,369 1,171,542	7,314,993 1,773,251 472,155		1914 1909		13.5 2.4	10.1 2.0	7.8 2.4

TABLE 9.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919.

	Number	Horsep	ower.		Number	Horsep	ower.
power.	of on- gines or motors.	Amount.	Per cent distribu- tion.	POWER.	of en- gines or motors.	Amount.	Per cent distribu- tion.
Primary power, total	1,659	104, 847	100.0	Primary power-Continued.			
OwnedSteam	182	77, 954 58, 331	74.4 55.6	Other	1,417 1,417	26,893 26,806 87	25.6 25.6 0.1
Engines. Turbines. Internal-combustion engines. Water wheels and turbines.	15	47, 489 10, 842 778 18, 845	45.3 10.3 0.7 18.0	ElectricRented	2, 132 1, 417 715	51, 183 26, 806 24, 377	100. 0 52. 4 47. 6

TABLE 10.—FUEL CONSUMED, BY STATES: 1919.

	co	AT,.			Gaso- line			CO.	AL.		The second secon	Gaso- line	
STATE,	Anthracite (tons, 2,240 pounds).	minous	pounds).	Fuel oils (bar- rels).	and other volatile oils (bar- rels).	Gas (1,000 cubic feet).	STATE.	Anthracite (tons, 2,240 pounds).	Bitu- minous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Fuel oils (bar- rels).	and other volatile oils (bar- rels).	Gas (1,000 cubic feet).
United States	57,028	161,725	17,408	19,742	280	58, 406	New Jersey	28,383	3,701				
Alabama		7,652					New York. North Carolina	11, 252	20,715 5,385	[30	781
Connecticut		590 4,641					Pennsylvania	11.682	13,277		325	24	35
Massachusetts	5,388	17,930	17,408	46	26	12	All other	80	250 87,584		19,371	200	57,578

SPECIAL STATISTICS.

Detailed statistics of quantity and cost of materials.—The quantity and cost of materials used in the manufacture of cordage and twine, jute goods, and linen goods are shown in Table 11 for 1919, 1914, and 1909.

All hard fibers used in the manufacture of cordage and twine are imported, and form the most important raw materials of the industry. Manila hemp, a native of the Philippines, is not the true hemp and is more properly, but not as commonly, called abaca. Other hard fiber materials of the industry are henequen (sisal from Mexico and Cuba), New Zealand hemp, sisal (from Africa, the Bahamas, Hawaii, and Java), istle or Tampico fiber, Maguey, Mauritius hemp, etc. The soft fibers used were both foreign and domestic, and the cotton was largely domestic.

TABLE 11.—MATERIALS USED IN THE MANUFACTURE OF CORDAGE AND TWINE, JUTE GOODS, AND LINEN GOODS: 1919, 1914, AND 1909.

MATERIAL.	1919	1914	1909	MATERIAL.	1919	1914	1909
Total cost	\$111,604,303	\$60,474,417	\$39,536,892	Soft fibers—Continued. Jute butts— Pounds	50, 612, 168 \$2, 991, 499	114,389,155 \$3,535,552	138, 364, 122 \$2, 033, 176
Pounds. Cost. Manila hemp (abacá)— Pounds.	427, 932, 476 \$58, 578, 509 122, 736, 510	437, 330, 684 \$28, 576, 735 99, 519, 803	352,683,572 \$20,022,108 131,611,903	Cost Flax and ilax tow— Pounds. Cost	12,787,560 \$5,796,554	24,717,598 \$3,205,975	26, 954, 785 23 , 174, 609
Cost New Zealand hemp— Pounds	\$22,085,814 28,391,553 \$4,251,960	\$9, 395, 431 9, 672, 195 \$579, 322	\$8,396,980 2,091,217 \$115,942	Hemp and hemp tow Pounds. Cost- Other soit fibers	14,939,387 \$2,433,502	22,752,353 \$1,861,817 48,174,053	19,724,070 31,496,125
Cost Henequen Pounds Cost	159, 780, 297 \$23, 351, 203	281, 189, 993 \$15, 736, 496	203,848,581	PoundsCost	1,432,288 \$150,740 31,685,111	\$032,339 32,336,685 \$3,453,348	(1) (1) 27,624,490 \$2,922,933
Sisal— Pounds Cost Other hard fibers—	1 \$4,740,344	38, 982, 642 \$2, 471, 640	\$10,017,320	Cost Yarns purchased: Cotton— Pounds.	\$8,536,832 7,950,240 \$4,081,394	1	7,077,959 \$1,291,599
PoundCostSoft fibers:	80, 415, 289 \$4, 149, 188 205, 961, 862	7,006,051 \$393,846 338,345,841	\$591,860 307,035,404	Cost	\$4,081,394 5,520,126 \$1,861,781	1	
Pounds Cost Jute Pounds	\$23,003,014	\$18,273,553 128,312,082	\$10, 838, 175 121, 992, 427 \$4, 134, 265	Cost		1	
Pounds		128,312,082 \$8,737,870		All other materials	\$10,041,070	2,,021,210	

1 Not reported in 1909.

Detailed statistics of quantity and value of products.—Table 12 gives the quantity and value of the various products of the industry for 1919, 1914, and 1909.

Nearly one-third of the total value of products for the combined industry in 1919 was for the manufacture of rope, cable, and cordage, made chiefly from manila hemp. Binder twine was the second item of note, measured by value of product, the largest quantity of which was made from sisal, including henequen sisal. The higher priced and better grades of binder twine were made from manila hemp, and "All other" was made chiefly from New Zealand hemp. A considerable quantity of binder twine is

made annually in penal institutions but the statistics presented in this table do not include the production of such establishments only as explained in the foregoing paragraph relating to the general character of the industry.

Table 13 gives the total quantity and value of the cotton twine, and cordage and rope made in the United States, by states for 1919 and 1914.

The source of the largest production of cotton twine, cordage and rope was in mills engaged chiefly in the manufacture of cotton yarn and assigned to the cotton-goods industry, which in 1919 amounted to 17,622,902 pounds, valued at \$8,142,490.

TABLE 12.—PRODUCTS OF THE CORDAGE AND TWINE, JUTE-GOODS, AND LINEN-GOODS INDUSTRIES: 1919, 1914 AND 1909.

PRODUCT.	1919	1914	1909	PRODUCT.	1919	1914	1999
Total value	1 \$174, 807, 220	1 \$83, 235, 068	1 \$59, 121, 989	Twine, other than binder—Contd.			
Rope, cable, and cordage: Pounds	225, 658, 614	198, 400, 692 \$21, 530, 858	239, 031, 893 \$19, 850, 635	PoundsValueJute—	23, 438, 440 \$12, 288, 755	17, 927, 286 \$3, 472, 056	20, 412, 631 \$3, 518, 036
Value Manila hemp— Pounds Value	\$55, 369, 664 130, 418, 220	104, 909, 172	125, 789, 435	Pounds Value	52, 398, 422 \$10, 904, 168	55, 282, 159 \$5, 268, 357	85, 516, 217 \$ 2, 557, 744
Value	\$32, 009, 929 79, 152, 029	\$12,860,035 (2) (2)	\$10, 719, 269 (2) (2)	Hemp Pounds Value	7, 988, 085 \$3, 864, 311	9, 318, 771 \$1, 583, 354	8, 013, 349 \$1, 091, 291
Hardware rone—	\$20, 538, 519 13, 236, 497			Flax— Pounds Value	84, 415 \$113, 836	3, 953, 622 \$1, 051, 684	2, 967, 053 1, \$830, 969
PoundsValueDrilling cablePounds	:	(2) (2)	(2) (3)	ValueOther, including mixed PoundsValue.	8, 449, 668 \$3, 158, 581	18, 767, 839 \$2, 621, 071	8, 907, 403 \$936, 312
Value Transmission rope—	\$2, 640, 079	(2) (2)	(2) (2)	Yarns for sale:	60, 483, 739		
PoundsValueOther commercial and bolt	3, 347, 125 \$808, 987	(2) (2)	(2) (2)	Value Jute	\$ 13, 288, 394	75, 875, 322 \$8, 320, 186	68, 731, 258 \$5, 434, 037
ropes— Pounds Value	23, 828, 702 \$5, 116, 205	(2) (2)	(2) (2)	PoundsValueOther—	56, 407, 631 \$11, 587, 402	69, 827, 005 \$7, 357, 888	62, 512, 247 \$4, 361, 550
Sisal— Pounds Value	26, 250, 565 \$4, 802, 058	39, 898, 873 \$2, 991, 141	1	Pounds. Value	4, 076, 108 \$1, 700, 992	6, 048, 317 \$962, 298	6, 219, 011 \$1, 072, 487
Henequen— Pounds Value.	16, 327, 138	13, 533, 529 \$1, 042, 457	64, 165, 218 84, 245, 723	Linen thread: Pounds. Value.	4, 279, 264 \$6, 690, 440	5, 707, 668 \$3, 409, 136	6, 530, 503 \$3, 407, 008
Cotton— Pounds Value	11, 947, 094	13, 244, 198 \$2, 539, 906	16, 760, 763 \$3, 011, 613	Woven goods:	, ,		
Jule— Pounds Value	29, 678, 806	1	27, 749, 512 \$1, 566, 160	Square yards Value Jute—	14, 341, 720 \$3, 798, 974	10, 799, 628 \$1, 765, 798	10, 460, 993 \$1, 574, 653
All other— Pounds Value	11, 036, 731 \$3, 074, 694	26, 814, 920 \$2, 097, 319	4, 566, 965 \$307, 870	Carpets and rugs— Square yards Value	2, 288, 270 \$1, 600, 677	4, 862, 802 \$1, 172, 257	2, 206, 114 \$549, 221
Binder twine: Pounds	229, 508, 186 \$46, 256, 024	302, 280, 862	189, 172, 151	Bagging for baling cotton— Square yards	75, 204, 7 44 \$11, 339, 670	131, 827, 658	69, 311, 288
Value All or chiefly manila hemp (abacá)— Pounds.	1	\$24, 094, 565	\$14,079,671	Other bags and bagging— Square yards. Value Webbling (not over 12 in.	3, 554, 323 \$666, 887	\$6, 440, 594	\$3, 507, 482
Value		16, 948, 915 \$1, 637, 511	24, 380, 247 \$2, 173, 078	width) Linear yards	25, 417, 400	(2) (2)	(2) (2)
PoundsValueAll other—	1 -	285, 337, 947 \$22, 457, 054	161, 591, 308 \$11, 714, 557	Value All other jute woven goods- Square yards	\$1, 053, 170 4, 013, 586	(2) (2) (2)	(2) (2) (2)
PoundsValue	23, 171, 045 \$5, 166, 486) <i>••••</i> , ••••	3, 200, 596 \$192, 036	Value	\$1, 696, 444 219, 489		(2) (2) (2)
Twine, other than binder:	1		1	Value	\$154,990	(2) (2)	(2)

¹ In addition, cordage and twine, jute goods, and linen goods to the value of \$11,628,911 in 1919, \$5,480,558 in 1914, and \$4,472,546 in 1909, were reported by establishments engaged primarily in other industries. Of these amounts, \$8,142,490 in 1919, \$3,683,348 in 1914, and \$3,581,917 in 1909 represent the value of the twine and cordage and rope made by cotton mills engaged chiefly in the manufacture of yaru.

2 Not reported separately.

TABLE 13.—TOTAL PRODUCTION OF COTTON TWINE, CORDAGE AND ROPE, BY STATES: 1919 AND 1914.

	QUANTITY	(POUNDS).	VAI	UE.	PROPERTY AND PRIME	QUANTITY	(POUNDS).	VAL	UR.
PRODUCT AND STATE.	1919	1914	1919	1914	PRODUCT AND STATE.	1919	1914	1919	1914
Cotton twine	35, 208, 635	31, 228, 601	\$18, 224, 000	\$6, 268, 291	Cotton cordage and rope	18, 762, 942	18, 812, 856	\$8,977,060	\$3,442,057
Alabama Connecteut Georgia Massachusetts New York North Carolina South Carolina All other states	2,246,769 1,641,714 1,464,547 1,560,352 3,537,401 3,122,482	1,245,323 2,272,784 5,248,751 1,616,629 650,000 3,280,892 3,470,600 13,443,532	557, 177 1, 705, 362 1, 832, 320	209, 519 530, 641 1, 130, 918 360, 506 144, 167 658, 501 603, 921 2, 570, 118	Massachusetts. North Carolina Pennsylvania. All other states	1, 187, 327	3, 221, 119 1, 601, 895 1, 621, 233 4, 672, 788 826, 998 2, 485, 554 4, 383, 269	907, 314 543, 837 1, 253, 871 3, 367, 032 536, 989 461, 021 1, 906, 996	453, 127 330, 872 257, 094 1, 131, 893 150, 163 317, 801 801, 107

GENERAL TABLES.

Table 14 gives, for 1919, 1914, and 1909 in totals for the United States, and for 1919 and 1914 for states, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for the combined industry. Table 15 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 14.-COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

STATE.	Cen-	Num- ber of estab-	Wago earners (aver- age	Primary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	STATE.		Num- ber of estab-	age	Primary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
	year.	lish- ments.	num- ber).	power.		xpressed housands			year.	lish- ments.	num- ber).	power.	E:	xpressed i housands	ln
United States	1919 1914 1909	156 160 151	26,650 27,323 24,866	104, 847 93, 937 77, 091	\$22,772 11,442 8,843	\$111,604 60,474 39,537	\$174,807 83,235 59,122	New Jersey		ຄ 6	3,034 760	8,776 3,366	\$2,385 315	\$11,222 2,281	2, 863
Alabama	1919 1914	4 5	475 460	2,580 1,935	301 154	1,581 829	2, 231 1, 135	New York	1919 1914	22 12	4,791 3,804	19,767 11,935	4,484 1,706	8,247	1
Connecticut	1919 1914	9 10	348 316	1, 160 1, 255	226 103	1, 438 506	1,933 666	Pennsylvania	1919 1914	27 28	2,763 2,678	7,558 7,028	2,464 1,071	8,261 5,057	6,776
Kentucky	1919 1914	4 5	469 506	1,185 1,625	269 159	942 611	1,844 883	Rhode Island	1919 1914	5 5	125	589 398	92 52	449 179	279
Massachusetts	1919 1914	19 7	6,850 1,541	34, 883 4, 605	0, 225 652	29, 590 1, 795	47,151 8,050	All other states	1019 1914	57 82	7,79 5 17,124	28, 349 61, 790	6,326	38,936 40,969	

TABLE 15.—DETAILED STATEMENT, BY STATES: 1919.

		AND THE PARTY OF		PERSON	S ENG	AGED	IN THE	INDU	STRY.	Activities and the control of the co	N	WAGI EARE	E EARNE ST REPR	RS DEC. ESENTAT	15, 6	OR.			TE:	XPENS	es.
	Nisana			Sala- ried	Clerk	s, etc.		Wa	ige earn	ers.			16 and	over.	Unde	er 16.			Salari	es and	l wages.
INDUSTRY AND STATE.	Num- ber of estab- lish-	m.4.1	Pro- prie- tors	offi- cers, super-				Nu	mber, 1	ith day	Ш	otal.					Capi	ital.			
	ments.	Total.	and firm mem- bers.	tend- ents, and man- agers.	Male.	Fe- male.	Aver- age num- ber.		ximum onth.	Minim mont	um	. Opar,	Male.	Fe- male.	Male	Fe- male			Officia	als.	Clerks, etc.
United States	156	28, 889	42	850	837	510	26, 650	De	27, 877	Ap 25,	622 28	, 438	15, 133	12, 387	438	480	\$149, 11	2, 428	\$3, 521,	633 \$	1, 937, 208
Cordage and twine Alabama. Connecticut Kentucky. Massachusetts. New Jersey New York. North Carolina Pennsylvania. Rhode Island All other states 1.	120 4 9 4 13 6 20 5 19 5 35	19, 232 494 395 491 2, 995 2, 513 4, 434 478 2, 082 140 5, 210	29 4 4 5 6 3 7	670 11 26 15 70 61 215 19 46 6 201	575 5 6 4 74 102 200 9 46 2 127	336 3 11 3 104 16 96 6 14 4 79	17, 622 475 348 469 2, 743 2, 334 3, 918 444 1, 970 125 4, 796	De Au Au De Mr De De Oc De	366 520 2,948 2,414 4,324 518 2,135	Au 2, Ap 3, Mh	412 330 362 574 225 633 4 366 683 201	5,899 539 375 520 2,720 3,403 4,294 514 2,144 148 5,242	10, 907 248 170 281 1, 911 1, 087 2, 517 309 1, 113 77 3, 194	7, 504 291 172 235 729 1, 167 1, 738 157 982 65 1, 968	261 17 1 45 73 27 26 20 3 49	227 16 3 35 76 12 22 20 3 31	1, 31 1, 25 26, 09 10, 81 25, 99 1, 56 9, 44	18, 987 32, 520 18, 349 18, 349 194, 441 192, 618 36, 724 43, 941 41, 804 80, 698	60, 32, 237, 441, 735, 40, 369,	657 222 315 130 197 081 273 260 050	1, 341, 868 7, 085 13, 213 7, 284 255, 904 215, 581 2440, 349 12, 630 94, 249 3, 411 292, 162
Jute goods New Jersey Pennsylvania All other states 2	26 3 8 15	7, 587 729 849 6, 009	13 8 5	136 16 19 101	189 7 19 163	111 6 10 95	7, 138 700 793 5, 645	Au No Se	7, 513 773 932	Ap 6 Fe Ja	617	7, 486 761 887 5, 838	3, 351 310 496 2, 545	3, 881 421 386 3, 074	110 15 4 91	144 15 1 128	2, 65 4, 54	35, 845 51, 034 46, 103 38, 708	681, 100, 119, 461,	280	432, 941 20, 619 28, 506 383, 816
Linen goods Massachusetts All other states 3	10 4 6	2,070 1,288 782		44 18 26	73 35 38	63 16 47	1,890 1,219 671	De De	2, 079 1, 283	Je 1 Ja 1	, 798 , 164	2, 053 1, 310 743	875 523 352	1,002 614 388	67 66 1	109 107 2	7, 52 5, 28 2, 2	27, 596 57, 364 70, 232	166, 77, 88,	926 796 130	162, 399 83, 708 78, 691
			E	XPENSI	SS—coi	itinue	d.										rc	WER.			· · · · · · · · · · · · · · · · · · ·
										H											
	Salaries wages Continu			Rent	and te	ixes.	Fo	r ma	terials.						1	Prima	ry horse	epower			Elec-
INDUSTRY AND STATE,	บบลอลร	ied.	For	Rent	and to	axes.	Fo	r ma	terials.		alue of	ad	/alue ded by		I	Prima	ry horse		·.		tric horse- power
industry and state,	บบลอลร	e W	on- ract ork.	Rent	Ta Fed street	xes, leral, ate, inty, acal.	Fo Princi materi	pal	Fuel a rent o	nd of	alue of oducts.	ad n	Value ded by nanu- cture.	Total.	St gi	eam	Own		Water pow- er.4	Rent	tric horse- power gener- ated in estab-
industry and state,	Wages Continu Wag earner	e w	on- ract ork.	Rent of	Ta Fed str. cou a lo	xes, leral, ate, inty, nd	Princi materi	pal ials.	Fuel a	nd of r.		ade n fa	ded by nanu-	Total.	St ei	eam ean- nes not ur- nes).	Own	Inter- nal- com- bus- tion en-	Water pow- er.4		tric horse- power gener- ated in estab- lish- ments report- ing.
•	wages Continu Wag earned \$22,771, 14,700, 301, 225, 280, 2,360, 1,794, 3,683, 258, 1,723, 1,723,	989 \$32 061 27 308	on- ract ork.	Ront of	Ta Fed str. cou a lo 2, 65 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	xes, leral, ate, inty, nd cal.	Princi materi store in the stor	pal als. 6,974 ,147 ,429 ,142 ,388 ,347 ,474 ,403 ,552 ,410	Fuel a rent of power \$1,998,31,381,51,11,26,,203,	nd of r	oducts.	ad n fa	ded by nanu- eture.		St e gi (C t t) bin 36 1 1 5 4 4 5 1 4	eam ean- nes not ur- nes).	Owner Steam turbines.	Inter- nal- com- bus- tion en- gines.	Water pow- er.4	ed.	tric horse-power gener-sted in establish ments reporting. 24, 377 10, 206 78 42 1, 803 2, 328 2, 119 3, 845
United States Cordage and twine Alabama Connecticut Kentucky Massachusetts New Jorsey New York North Carolina Pennsylvania Rhode Island	Wages Continu Wages rearrow \$22, 771, 14, 700,	989 \$32 061 27 308	on- nact ork. 3, 358 6, 617 350 0, 000	Rent of factory. \$187, 574 137, 376 1, 162 786 24, 800 11, 822 49, 263 43, 866 1, 988 1, 1988	Ta Ta Ta Ta Ta Ta Ta Ta Ta Ta Ta Ta Ta T	.xes, leral, ate, inty, nd cal. 44,405 	Princi materi \$109,605	5,974 , 147 , 429 , 142 , 341 , 474 , 473 , 552 , 410 , 637 , 636 , 967 , 705	Fuel a rent c powe \$1,998,\$ \$1,998,\$ 1,381, 11, 20, 203, 178, 301, 28, 109,	nd of r	4,807,220 366, 476 230, 905 932, 997 843, 810 086, 044 540, 268 540, 268 643, 710 386, 373 843, 454 644, 636	ad n fa	ded by nanu- cture. 202, 917 661, 194 649, 629 494, 969 901, 792 655, 094 750, 943 037, 212 581, 312 876, 163 195, 237	104, 847 66, 643 2, 580 1, 160 1, 185 10, 957 6, 370 16, 267 2, 177 5, 283	St 6 13 36 1 13 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	eam in- nes not ur- nes). , 489 6, 553 , 375 600 , 191 5, 785 , 105 , 106 6, 735	Owner turbines. 10,842 4,292 3,667 625	Internal- combus- bus- tion en- gines. 778 645 105	Water pow-er.4 18,845 4,219 1,077 478	26, 893 20, 934 1, 205 88 1, 396 1, 034 10, 168 25 303 154	tric horse-power generated in establish ments reporting. 24, 377 10, 206 78 42 1, 803 2, 119 3, 2, 328 2, 119 3, 2, 328 1, 803 1, 803 2, 328 1, 803 1, 803 1, 803 1, 803 1, 803 1, 803 1, 805 1, 804 1, 905 1, 90

¹ All other states embrace: California, 1 establishment; Georgia, 1; Illinois, 3; Indiana, 1; Iowa, 1; Maryland, 1; Michigan, 2; Minnesota, 1; Missouri, 2; New Hampshire, 1; Ohio, 7; Oklahoma, 1; Oregon, 1; South Carolina, 2; Tennessee, 2; Texas, 1; Virginia, 1; Washington, 1; and Wisconsin, 3.

2 All other states embrace: California, 1 establishment; Delaware, 1; Georgia, 1; Illinois, 1; Maryland, 1; Massachusetts, 2; Missouri, 1; New Hampshire, 1; New York, 1; North Carolina, 2; South Carolina, 2; and Virginia, 1.

3 All other states embrace: Michigan, 1 establishment; Minnesota, 2; New Hampshire, 2; and New York, 1.

4 Includes water wheels, turbines, and water motors.

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

FUR-FELT HATS.

GENERAL STATISTICS.

General character of the industry.—The fur-felt hat industry consists of establishments engaged in the manufacture of soft and stiff hats chiefly for men's wear. The raw material used, hatters' fur, is cut principally from the rabbit and hare, although the fur of other animals is used to a certain extent. The two natural divisions of the industry are making hat bodies (hats in the rough) and finishing hats. The larger manufacturers perform the complete operation from the fur to the finished hat while numerous smaller ones are either engaged in the making of hats in the rough or in finishing hats.

Comparative summary.—A summarization of the industry as a whole is presented in Table 16 for each census year from 1899 to 1919, inclusive.

Summary for the two branches of the industry.— Table 17 gives a summary of statistics, for 1919, with respect to the two branches of the industry, establishments engaged exclusively in finishing hats, and those making either hat bodies or the hat complete.

Principal states, ranked by value of products.—In Table 18 are shown the number of establishments, average number of wage earners, value of products, and value added by manufacture, for the principal states representing the industry in 1919, ranked according to value of products.

Principal cities in the industry.—Statistics for the cities which have a leading part in the industry are presented in Table 19 with respect to number of establishments and value of products for 1919 and 1914.

Persons engaged in the industry.—Table 20 gives the number of males and females employed in the industry in 1919, 1914, and 1909, with percentages for each according to class of work performed.

Wage earners, by months, for selected states.—The total average number of wage earners employed in the industry, together with the number employed on the 15th (or nearest representative day) of each month during the year 1919 is given in Table 21 by states.

Prevailing hours of labor.—Table 22 shows that of the several groups of wage earners, classed according to the prevailing hours of labor per week, the largest number were employed 44 or less hours per week in 1919, between 48 and 54 in 1914, and from 54 to 60 in 1909.

Size of establishments, by average number of wage earners.—Table 23 presents statistics, by states, with respect to the size of establishments based on the average number of wage earners employed in the industry during 1919.

Size of establishments, by value of products.—The size of establishments as measured by value of products in 1919, 1914, and 1909 is shown in Table 24.

Character of ownership.—Table 25 presents statistics with reference to the character of ownership, or legal organization, of establishments in the industry, for the leading states, in 1919 and 1914.

Number and horsepower of types of prime movers.— The various types of power used in the industry are shown in Table 26 with the number and horsepower of each, in 1919, 1914, and 1909. Statistics on owned and rented power are shown separately.

Fuel consumed.—Table 27 shows the kinds and quantity of fuel used in the industry in 1919 in comparison with 1914.

TABLE 16 .- COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

						PE	R CENT OF	INCREASE	;,1
	1919	1914	1909	1904	1809	1014- 1919	1909- 191 <u>4</u>	1904- 1909	1899- 1904
Number of establishments	176	224	273	216	171	-21.4	-17.9	26, 4	26.3
Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number).	20,318 148 1,660 18,510	22, 932 163 1, 451 21, 318	27, 091 264 1, 763 25, 064	23,666 252 1,367 22,047	10, 814 208 726 18, 880	-11. 4 -9. 2 14. 4 -13. 2	-15.4 -38.3 -17.7 -14.9	14, 5 4, 8 29, 0 13, 7	19, 4 21, 2 88, 3 16, 8
Primary horsepower	20,389 \$58,127,770	20, 851 \$39, 401, 429	19, 245 \$35, 733, 594	16,630 \$23,258,104	11,843 \$16,701,308	-2.2 47.5	8.3 10.3	,15, 7 53, 6	40. 4 39. 3
Salaries and wages		14,000,263 1,929,451 12,070,812	16,319,881 2,096,689 14,223,192	12,770,473 1,488,236 11,282,237	10,063,262 943,998 9,119,264	73. 4 140. 1 62. 7	-14.2 -8.0 -15.1	27. 8 40. 9 26. 1	26. 9 57. 7 23. 7
Paid for contract work	23, 404 2, 353, 266	19,825 324,626	828, 697 286, 573	159,793 2 212,905	97, 943	18, 1 624, 9	-93.9 13.3	104. 5	63.1
Rent and taxes Cost of materials Value of products Value added by manufacture ³	40, 158, 019	16,947,058 37,349,744 20,402,686	22, 109, 231 47, 864, 630 25, 755, 399	15, 975, 206 36, 629, 353 20, 654, 147	2 146, 783 13, 513, 668 27, 811, 187 14, 297, 519	137. 0 121. 5 108. 7	-23.3 -22.0 -20.8	38, 4 30, 7 24, 7	18, 2 31, 7 44, 5

¹ A minus sign (-) denotes decrease.

^{*} Exclusive of internal revenue.

TABLE 17.—SUMMARY FOR THE TWO BRANCHES OF THE INDUSTRY: 1919.

		ESTABLIS ENGAGE		PER DISTI				ESTABLIS ENGAGE		PER C DISTR TIO	IBU-
	Total for the industry.	Making hat bodies or hats complete.	Finishing hats.	Mak- ing hat bodies or hats com- plete.	Fin- ishing hats.		Total for the industry.	Making hat bodies or hats complete,	Finishing hats.	Mak- ing hat bodies or hats com- plete.	Fin- ishing hats,
Number of establishments	148 1,660 18,510 20,389	64 17, 430 40 1, 285 16, 105 19, 370 \$51,896,400	2,888 108 375 2,405 1,019 \$8,231,370	36. 4 85. 8 27. 0 77. 4 87. 0 95. 0 89. 3	63. 6 14. 2 73. 0 22. 6 13. 0 5. 0 10. 7	Salaries and wages. Salaries. Wages. Paid for contract work. Rent and taxes (including internal revenue). Cost of materials. Value of products. Value added by manufacture 1.	l 4.631.672 l	16, 830, 837 4, 476 2, 140, 469	\$3,602,834 791,140 2,811,694 18,928 212,797 9,711,903 15,408,475 5,696,572	85. 2 82. 9 85. 7 19. 1 91. 0 75. 8 81. 4 86. 6	14. 8 17. 1 14. 3 80. 9 9. 0 24. 2 18. 6 13. 4

¹ Value of products less cost of materials.

TABLE 18.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 1919.

	Number	WAG	E EARNERS.		VALUE	OF PRODUCTS		VALUE ADDED	BY MANUFA	CTURE.
STATE.	of estab- lish- ments.	Average number.	Per cent distribu- tion,	Rank.	Amount (expressed in thousands).	Per cent distribu- tion.	Rank.	Amount (expressed in thousands).	Per cent distribu- tion.	Rank.
United States	176	18, 510	100, 0		\$ 82,745	100.0		\$ 42, 587	100, 0	
Connecticut New York Pennsylvania New Jersey	42	4, 580 4, 088 5, 414 3, 303	24. 7 22. 1 29. 2 17. 8	2 3 1 4	23, 152 19, 888 17, 995 16, 625	28. 0 24. 0 21. 7 20. 1	1 2 3 4	10, 948 9, 097 12, 077 8, 390	25. 7 21. 4 28. 4 19. 7	2 3 1 4
Missouri. California. Illinois. All other states.	5 6 5 26	· 323 69 36 697	1.7 0.4 0.2 3.8	6 7 8	1,479 558 344 2,704	1.8 0.7 0.4 3.3	6 7 8	458 159 155 1,303	1, 1 0, 4 0, 4 3, 0	6 7 8

TABLE 19.—PRINCIPAL CITIES IN THE INDUSTRY: 1919 AND 1914.

Clty.	NUMB ESTADLIS		VALUE OF PI	BODUCTS.	CITY.	NUMB ESTABLIS		VALUE OF	PRODUCTS.
· · ·			1919	1914		1919	1914	1919	1914
Philadelphia, Pa Danbury, Conn. New York, N. Y	13 23 36	17 39 31	\$15, 952, 099 16, 089, 308 11, 760, 387	\$9,914,443 7,065,765 3,601,944	Newark, N. J	19	26 6	\$9,103,649 5,573,569	\$3,900,954 2,822,860

TABLE 20.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

CLASS.	Cen-	Total.	Male.	Fe-		CENT OTAL.	21.22	Cen-			F`e-	PER O	
VIIADƏ.	year.	Total,	Maie.	male.	Male.	Fe- male.	CLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male.
All classes	1919 1914 1909	20,318 22,932 27,091	14,826 16,909 19,572	5,492 6,023 7,519	73. 0 73. 7 72. 2	27. 0 26. 3 27. 8	Clerks and other subordinate salaried employees.	1919 1914 1909	1,128 1,018 1,250	714 801 1,022	414 217 228	63. 3 78. 7 81. 8	36.7 21.3 18.2
Proprietors and officials	1919 1914 1909	680 596 777	684 569 735	46 27 42	93. 2 95. 5 94. 6	6.8 4.5 5.4	Wage earners (average number)	1919 1914 1909	18,510 21,318 25,064	18, 478 15, 539 17, 815	5,032 5,779 7,249	72.8 72.9 71.1	27. 2 27. 1 28. 9
Proprietors and firm members	1919 1914 1909	148 163 264	147 159 258	1 4 6	1	0.7 2.5 2.3	16 years of age and over	1919 1914 1909	18, 172 21, 069 24, 533	13,297 15,381 17,526	4,875 5,688 7,007	73. 2 73. 0 71. 4	26. 8 27. 0 28. 6
Salaried officers of corporations	1919 1914 1909	210 161 137	204 157 136	6 4 1	97. 1 97. 5 99. 3	2.9 2.5 0.7	Under 16 years of age	1919 1914 1909	338 249 531	181 158 289	157 91 242	53.6 63.5 54.4	46. 4 36. 5 45. 6
Superintendents and managers	1919 1914 1909	322 272 376	283 253 341	39 19 35	87.9 93.0 90.7	12. 1 7. 0 9. 3							

TABLE 21.—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.]

	Aver-		עטא	BER EMP	TOAED ON	15TH DAY	OF THE M	ONTH OR	NEAREST	REPRESEN	TATIVE D	AY.		Per
STATE.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April,	Мау.	June.	July.	August.	Sep- tember.	Octo- ber.	Novem- ber.	Decem- ber.	mini- mum is of maxi- mum.
United States: 1910. Males. Females. 1914. 1909.	18,510 13,478 5,032 21,318 25,064	16,531 12,014 4,517 21,519 25,987	16,712 12,211 4,501 21,783 19,894	16,879 12,305 4,574 21,581 20,391	16,858 11,958 4,395 20,518 20,590	16,928 12,363 4,565 19,791 21,075	17,990 13,221 4,769 20,134 24,538	19,269 14,124 5,145 22,030 26,676	19,896 14,571 5,325 22,269 27,588	10, 561 14, 307 5, 254 22, 350 28, 216	20, 420 14, 794 5, 620 22, 438 28, 276	20,634 14,829 5,805 20,844 28,972	20,947 15,039 5,908 20,553 29,062	78. 1 79. 5 74. 4 88. 2 06. 7
California. Connecticut Illinois. Missouri	4.580	51 3,787 34 342	3,815 36 310	3,831 37 302	3,944 37 301	63 4,244 36 280	67 4, 512 36 310	70 4,799 35 324	5,105 38 301	81 5,131 88 296	85 5,234 36 350	87 5,166 35 382	90 5,392 34 378	55. 6 70. 2 89. 5 73. 3
New Jersey New York Pennsylvania	3,303 4,088 5,414	3,081 3,571 5,000	3,034 3,771 5,038	3,050 3,845 5,150	3,052 3,301 5,023	3,026 3,583 5,019	3,234 3,893 5,231	3,399 4,354 5,571	3,496 4,442 5,726	3,521 3,998 5,762	3,574 4,631 5,778	3,588 4,805 5,825	3,581 4,862 5,845	84. 3 67. 9 85. 5

TABLE 22.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

						rs whe										rs whe			
STATE.	Con- sus year.	Total.	and un- der.	Be- tween 44 and 48.	48.1	Be- tween 48 and 54,	54.	Be- tween 54 and 60.	60.	STATE.	Cen- sus year,	Total.	and un- der.	Be- tween 44 and 48.	48,1	Be- tween 48 and 54.	54.	Be- tween 54 and 60.	60
United States	1914	18,510 21,318 25,064	7,037 (2) (2)	5,359 (1) (2)	3,670 3,511 2,182	2,004 12,377 7,985	103 3,615 5,163	333 1,560 8,957	4 255 777	Missourl	1919 1914	323 114	23 (2)	(2)		127	13		
California	1919 1914	69 58	47	9 (2)	13 58		<u> </u>			New Jersey	1919 1914	4,401	ll ''	267	700	323 3,076	245	374 374	7
Connecticut	1919 1914		2,237	1	239 1,467	1,351 2,889	354	220 515	236	New York	1914	4,088 3,563	1,798 (2)	(3)	2,179 677	650	1,951	284	···i
Illinois	1919 1914	36 43	32 (²)	(2)	4	16	9	12	2	Pennsylvania	1919 1914	5,414 6,714	193 (²)	4,548 (2)	517 205	158 5,722	545	182	

 $^{^{\}rm 1}$ Includes 48 and under for 1914 and 1909.

TABLE 23.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR STATES: 1919.

	T	TAL.							ES	TABLIS	UMENTS	EMPLO	YING-						
STATE.	Estab-	Wage earners	No wage earn- ors.	we earn	o 5 lge lers, sive.	ear	to 20 rage ners, usive.	981 681	to 50 rage rners, usive.	90.1	to 100 /age rners, usive.	981 881	to 250 /age ners, usive.	98	to 500 vage rners, lusive.	80	to 1,000 vage rners, lusive.	1	er 1,000 vage rners.
	lish- ments.	(average number).	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
United States. 1919	176 224	18, 510 21, 318	10 6	53 74	140 194	25 46	326 510	26 22	897 671	24 25	1,665 1,725	21 30	3,425 4,817	11 17	3, 996 6, 002	4 2	2, 281 1, 101	2 2	5, 780 6, 298
California Connecticut Illinois Missouri	6 41 5 5	69 4,580 36 323	3 1	2 2 2 1	6 3 5 1	2 3 1 2	16 54 7 23	2 9 1	47 324 24	8	561	i2	1,971	3	1,134	i	533		
New Jersey New York Pennsylvania	31 42 20	3,803 4,088 5,414	1 3 1	9 11 8	21 34 20	11 3	159 32	6 5 1	210 192 23	6 6 3	388 425 207	4 1 2	724 162 269	4 3	1,402 1,009	1 1 1	558 680 510	i 1	1, 427 4, 353

² Corresponding figures not available.

TABLE 24.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.		JMBER (GE NUMB GE EARNE		YAL	UE OF PRODU	cts.	VALUE ADI	DED BY MANU	FACTURE.
, 11101 01 1105 001.	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes	176	224	273	18, 510	21,318	25,064	\$82,745,308	\$37,349,744	\$47, 864, 630	\$42,587,289	\$20, 402, 686	\$ 25, 755, 3 99
Less than \$5,000 . \$5,000 to \$20,000 . \$20,000 to \$100,000 . \$100,000 to \$500,000 . \$500,000 to \$1,000,000 . \$1,000,000 and over .	20 26 33 51 25 21	39 59 52 60 8 6	35 63 78 91 6	13 65 258 258 { 2,291 3,057 12,826	52 281 1,379 } 11,538 8,068	53 334 1,987 13,141 9,549	59,775 285,326 1,436,169 12,285,576 17,094,928 51,583,534	89, 827 606, 939 2, 534, 833 14, 547, 981 5, 951, 207 13, 618, 957	104, 234 695, 573 3, 639, 413 } 26, 673, 802 16, 751, 608	36, 681 159, 348 614, 374 4, 982, 664 7, 584, 954 29, 209, 268	55, 025 353, 841 1, 095, 499 } 10, 583, 426 8, 314, 895	57, 340 384, 553 1, 899, 810 13, 638, 139 9, 795, 557
							PER CENT I	ISTRIBUTION.				
All classes	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 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	14.8 18.7 29.0 14.2	17. 4 26. 3 23. 2 26. 8 3. 6 2. 7	12. 8 23. 1 28. 6 33. 3 2. 2	0.1 0.4 1.4 12.4 16.5 69.3	0, 2 1, 3 6, 5 54, 1 37, 8	0, 2 1, 3 7, 9 52, 4 38, 1	0.1 0.3 1.7 14.8 20.7 62.3	0.2 1.6 6.8 39.0 15.9 36.5	0. 2 1. 5 7. 6 55. 7 35. 0	0.1 0.4 1.4 11.7 17.8 68.6	0.3 1.7 5.4 51.9 40.8	0.2 1.4 7.4 53.0 38.0

TABLE 25.—CHARACTER OF OWNERSHIP, BY STATES: 1919 AND 1914.

			MBER (ABLIS		ΑV	ERAGE	NUMBER	OF W	GE EA	RNERS			V.	ALUE OF PROI	oucts.			
STATE.	Cen-	MEN	BY—				tablishm wned by		Pero	ent of	total.	·	Of establ	ishments own	ned by-	Per co	nt of t	otal.
	year.		Cor- pora- tions	oth-	Total.	Indi- vid- uals.	Cor- pora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	All others.
United States	1919 1914	62 94	78 103	36 27	18, 510 21, 318	778 1, 809	15, 194 17, 507	2,538 2,002	4. 2 8. 5	82. 1 82. 1	13. 7 9, 4	\$82,745,308 37,349,744	\$5,025,270 3,509,142	\$64, 012, 720 30, 368, 386	\$13,707,318 3,472,216	6. 1 9. 4	77. 4 81. 3	16. g
Connecticut	1919 1914	9 19	24 33	8 6	4,580 5,461	245 538	3,613 4,437	722 486	5.3 9.9	78. 9 81. 2	15. 8 8. 9	23, 152, 468 9, 475, 778	1, 240, 407 1, 063, 554	18,317,049 7,539,623	3, 595, 012 872, 601	5. 4 11. 2	79.1 79.6	15. 9.
New Jersey	1919 1914	8 14	16 23	7 4	3,303 4,401	40 412	2,452 3,626	811 363	1.2 9.4	74. 2 82. 4	24. 8 8. 2	16,625,357 7,969,344	258, 900 480, 513	12, 257, 517 6, 861, 258	4, 108, 940 627, 573	1.6 6.0	73. 7 86. 1	24.7 7.1
New York	1919 1914	14 21	17 12	11 6	4, 088 8, 563	370 344	3, 505 3, 165	213 54	9.1 9.7	85, 7 88, 8	5. 2 1. 5	19,887,862 6,637,380	2,988,678 1,187,897	14, 842, 363 5, 268, 155	2,056,821 181,328	15.0 17.9	74.6 79.4	10.3
Pennsylvania	1919 1914	10 16	4 7	6	5, 414 6, 714	51 438	4,585 5,839	778 937	0.9 6.5	84.7 79.5	14. 4 14. 0	17,995,301 11,040,820	169, 508 591, 760	13, 958, 346 8, 966, 362	3, 867, 447 1, 482, 698	0.9 5.4	77. 6 81, 2	21. 13.

TABLE 26.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

	NUMBER O	F ENGINES O	R MOTORS.			Horsepow	ER,		
FOWER.			1000		Amount.		Per ce	ent distribu	tion.
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total	807	638	483	20,389	20,851	19,245	100.0	100.0	100.0
Owned Steam ¹ Engines.	102 99 98	155 147	185 175	15,381 15,251 14,251 1,000	18,119 17,936	16,845 16,653	75. 4 74. 8 69. 9	86. 9 86. 0	87. 86. 8
Engines. Turbines. Internal-combustion engines. Water wheels and turbines	2 1	6 2	8 2	1,000 10 120	48 135	172 20	(a) 4.9 0.6	0. 2 0. 6	0.1 0.
Rented. Electric Other.	705 705	483 483	298 298	5,008 4,996 12	2,782 2,655 77	2,400 2,172 228	24.6 24.5 0.1	13.1 12.7 0.4	12. 11. 1.
Electric	1,789 705 1,084	1,258 483 775	334 298 536	9,631 4,996 4,635	8,141 2,655 5,486	6,186 2,172 4,014	100, 0 51, 9 48, 1	100. 0 32. 6 67. 4	100. 35. 64.

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

TABLE 27.-FUEL CONSUMED: 1919 AND 1914.

KIND OF FUEL.	1919	1914	KIND OF FUEL.	1919	1914
Anthracite coal (tons, 2,240 lbs.). Bituminous coal (tons, 2,000 lbs.). Coke (tons, 2,000 lbs.).	1 75.038	76, 954 57, 247 101	Fuel oils (barrels). Gasoline and other volatile oils (barrels). Gas (1,000 cubic feet).	3,915 135 26,649	228 (1) 58,610

Less than one-tenth of 1 per cent.

SPECIAL STATISTICS.

Summary of materials and products for the industry.—The quantity and cost of materials and the quantity and value of products for the fur-felt hat industry are shown for 1919, 1914, and 1909, in Table 28.

TABLE 28.—DETAILED STATISTICS OF QUANTITY AND VALUE: 1919, 1914, AND 1909.

	1010	4044	7000	PER CENT OF INCREASE.				
	1919	1914	1909	1914- 1919	1909- 1914	1909- 1919		
Materials, total cost	\$40,158,019	\$16,947,058	\$22,109,231	137.0	-23, 3	81,6		
Hatters' fur: Pounds Cost Fur-felt hat bodies and hats	6,205,607 \$20,374,170			7. 6 186. 6	-33, 3 -23, 4	-28.2 110.6		
in the rough: Dozens Cost	459,655 \$6,636,707	395,848 \$2,453,503		16.1 170.5		13.1 157.7		
Chemicals and dyestuffs All other materials	\$820,577 \$12,326,565				$-48.8 \\ -26.1$	-2.7 31.0		
Products, total value.	\$82,745,308	\$37,349,744	\$47,864,630	121.5	-22,0	72.9		
Fur-felt hats: Dozens. Value. Fur-felt hat bodies and hats	2,100,023 \$71,069,038		2,989,252 \$43,442,466		-29, 1 -22, 6	-29.7 63.6		
in the rough: Dozens Value	518,111 \$7,657,114				-10.1 -12.2			
All other products, value Work on material for others.	\$3,995,566 \$23,590			362.3 —95.4	-25.8 -8.1			

1A minus sign (-) denotes decrease.

Materials and products for the industry, by states.— Table 29 shows the materials and products for each state for which statistics can be presented for 1919, 1914, and 1909.

TABLE 29.—MATERIALS AND PRODUCTS, BY PRINCIPAL STATES: 1919, 1914, AND 1909.

	Cost or		QUANTITY.			
	value, 1919.	1919	1914	1909		
MATERIALS. Hatters' fur	\$20, 374, 170 7, 037, 420 5, 200, 035 2, 949, 887 4, 291, 290	Pounds. 6, 205, 607 2, 568, 798 1, 169, 623 1, 036, 482 1, 200, 704	Pounds. 5,766,904 1,731,560 1,327,918 842,514 1,459,412	Pounds. 8,645,576 1,073,332 1,817,020 1,883,207 1,976,118		
All other states	205,538 6,036,707 241,027	Dozens. 459,055	### 405, 491 Dozens. 395, 848 ### 8, 318	Dozens. 406,447		
Connecticut Illinois Missouri Now Jersey Now York Pennsylvania All other states	997, 227 64, 100 372, 488 232, 695 4, 154, 237 66, 129 508, 804	81, 811 6, 200 31, 318 24, 994 250, 604 7, 550 42, 938	90,745 5,012 13,775 58,250 180,848 11,987 26,907	87,117 12,993 (1) 29,156 194,268 26,984 55,929		
Fur-felt hats	2 71,069,038	2,100,023	2,118,634	2,089,252		
California Connecticut Illinois Missouri Naw Jersoy Naw Yerk Pennsylvania All other states	15,791,197 128,800 787,579 15,829,630 17,907,436 17,826,204	14,240 563,267 6,200 31,318 460,671 565,561 378,599 80,167	8, 318 515, 986 5, 012 13, 775 496, 423 477, 338 472, 498 129, 284	530,558 13,280 (1) 579,590 776,258 608,690 420,858		
Fur-felt hat bodies and hats in the rough	7,057,114 0,090,100 060,948	518,111 448,136 69,975	329, 363 267, 178 62, 185	366, 370 335, 947 30, 423		

¹ Included in "All other states," to avoid disclosure of individual operations.

² In addition, fur-felt hats to the value of \$673,989 were made by establishments engaged primarily in other industries.

GENERAL TABLES.

Comparative summary, by states.—Table 30 shows number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for 1919, 1914, and 1909.

Detailed statement, by states.—In Table 31 are shown, for 1919, detailed statistics for the industry for each state that can be shown without disclosing the operations of individual establishments.

TABLE 30.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

STATE.	Cen- ber sus esta year, lish	ber of	Num- ber of estab-	ber of	ber of	ber of estab.	ber of estab.	ber of	ber of	ber of	ber of	ber of	ber of	ber of	ber of	ber of	ber of estab.	ber of estab.	ber of	ber of	Wage earners (aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	STATE.	Cen-	Num- ber of estab-	Wage earners (aver- age	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
		lish- ments.	nge num- ber).	power.	Expressed in thousands.		in s.		year.	lish- ments.	ntim- bor).	power.	Expressed in thousands.																				
United States	1919 1914 1909	176 224 273	18,510 21,318 25,064	20,380 20,851 19,245	\$19,643 12,071 14,223	\$40, 158 16, 947 22, 100	\$82,745 37,350 47,865	Now Jersey	1919 1914 1909	31 41 58	3,303 4,401 4,657	4,447 4,722 5,016	\$4,264 2,603 2,969	\$8,285 8,708 4,112	\$16,625 7,969 8,825																		
California	1919 1914	6 6	69 58	21 16	83 89	398 92	. 558 157	New York	1919 1914 1909	42 39 44	4,088 3,563 5,013	3,200 2,388 1,451	4,681 1,855 2,725	10, 790 3, 491 5, 406	19,888 6,637 10,219																		
Connecticut	1919 1914 1909	41 58 80	4, 580 5, 461 5, 217	5,311 6,029 5,619	5,099 3,057 3,384	12, 205 4, 633 4, 849	23, 152 9, 476 10, 400	Pennsylvania	1919 1914 1909	20 27 38	5,414 6,714 7,220	6,367 6,241 5,835	4,841 3,934 3,725	5,918 3,889 5,013	17,995 11,041 13,023																		
Illinois	1919 1914 1909	5 9 10	36 43 99	40 22 20	44 28 71	189 53 155	344 118 287	All other states	1919 1914 1909	26 38 39	697 964 2,826	935 1,409 1,770	620 482 1,334	1,402 879 2,552	2,704 1,631 5,034																		
Missouri	1919 1914 1909	5 6 4	323 114 32	68 24 4	211 73 15	1,021 202 22	1, 479 321 77																										

TABLE 31.—DETAILED STATEMENT, BY STATES: 1919.

			PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.]	EXPENSES.		
STATE.	Num-				Sala-	Clerk	s, etc.		Wage earne	rs.		16 an	l over.	Unde	er 16.		Salar	Salaries and wages.	
	ber of estab- lish-	Total.		Pro prie tors	offi- cers, super-				Number, 15	th day of—						Capital.			
	ments.		and firm men bers	tend-	Male.	Fe- male	Aver- age num- ber.	Maximum month,	Minimum month.	Total.	Male.	Fe- male.	Male.	Fe- male.		Omo	cials.	Clerks, etc.	
United States.	176	20,318	143	532	714	414	18, 510	De 20,947	Ap 16,353	21,132	14, 985	5,758	204	185	\$58, 127, 77	770 \$2,288,891		\$2,342,78 1	
CaliforniaConnecticutIllinoisMissouriNew Jersey	6 41 5 5 31	5,012 55 395 3,596	1 2	1 8 20	126 9 40 103	112 112 9 35	36 323	De 90 De 5,392 Se 1 38 No 382 No 3,588	Fe 50 Ja 3,787 Ja 34 My 280 My 3,026	5, 531 34 366 3, 599	4,179 21 113 2,768	1,222 13 248	84 4 6	46	212,92 11,996,70 140,28 746,67 9,428,58	6,703 858,0° 0,288 24,18 6,678 37,29		13,971 496,934 23,995 28,247 407,921	
New York Oregon Pennsylvania All other states ³	42 3 20 23	4,686 7 5,700 784	3 2 2 2	3	238 176 18	189 50 17		De 4,862 (2) 4 De 5,845	Ap 3,301 (2) 4 Ja 5,000	4,919 4 5,839 757	3,113 4,342 409	1,303	17 84 9	22 110 6	11,001,03 6,39 22,592,59 2,002,57	7	5, 292 5, 253 5, 455	559,639 769,149 42,925	
		EXPENSES—continued.									POWER,								
	land wa	Salaries and wages— Continued.			Rent and taxes.			aterials.		1		Primary horsepower.						Elec-	
STATE.		For contract work.							Value of products	adde mar	due d by mac-			C	owned.		powe	horse- power gener-	
				Rent of factory.			Principa materials			EU	ire.	Total.	Stean engin (not to bines	es tu	r- bus-	Water power.4	Rent ed.	ated in estab- lish- ments report- ing.	
United States	\$19,64	2,531 \$23	,404	224, 895	\$2,128	,371	\$39, 128, 70	\$1,029,222	\$82,745,3	<u>-</u>	587, 289	20, 389	14, 25	51 1,0	000 10	120	5,008	4,635	
California Connecticut Illinois. Missouri New Jersey.	21	2,500 9,015 4,192 1,220 3,918	527 ,000 600	4,761 37,694 4,830 13,743 41,116	411,	142 286	396, 53 11,900, 29 187, 56 1,016, 27 7,997, 10	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	23,152,4 344,3 1,478,9	96 51	159, 460 947, 702 155, 159 458, 304 390, 191	5,311 40 68 4,447	3,4	25			1,836 1,836 1,68 1,389	874	
New York Oregon Pennsylvania All other states !	4,64	3,600 0,509 1	,621 ,656	89, 915 1, 480 14, 457 16, 949	273, 991, 25,	58	10, 595, 6 8, 5 5, 694, 5 1, 332, 1	19 39 39 223 31	7 21,5 1 17,995.3	60 01 12,	097, 466 12, 614 077, 401 283, 992	3,200 2 6,367 933	2,30 4,8 5		000 10	120	77! 2 544 358	2,558	

1 Same number reported for one or more other months.
2 Same number reported throughout the year.
3 Same number reported throughout the year.
4 All other states embrace: Arkansas, 1 establishment; Florida, 1; Kentucky, 1; Maine, 1; Maryland, 3; Massachusetts, 3: Michigan, 1; Nebraska, 2; New Hampshire, 1; Ohio, 3; Rhode Island, 2; South Dakota, 1; Washington, 1; West Virginia, 1; and Wisconsin, 1.
4 Includes water wheels, turbines, and motors (irrespective of ownership of water supply).
5 Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).