NORTH DAKOTA.

GENERAL STATISTICS.

General character of the state.—North Dakota has a gross area of 70,837 square miles, of which 70,183 represent land surface. The inhabitants of the state in 1900 numbered 319,146; in 1910, 577,056; and in 1920, 646,872. In total population North Dakota ranked thirty-sixth among the states in 1920. The number of inhabitants per square mile in 1910 was 8.2, the corresponding figure for 1920 being 9.2.

In 1920 there were three cities in the state—Fargo, Grand Forks, and Minot—having more than 10,000 inhabitants. These three cities, with a combined population of 46,447, formed 7.2 per cent of the total population for North Dakota in that year, and reported 33.3 per cent of the value of the state's manufactured products in 1919.

Importance and growth of manufactures (Table 1).—
The large increases in wages, cost of materials, and the value of products, as presented in this table, are largely due to the change in industrial conditions brought about by the World War, and, therefore, can not properly be used to measure the growth of manufactures between the industrial censuses of 1914 and 1919. However, the increases in average number of wage earners and horsepower are evidences of the growth of the manufacturing activities of the state. The addition of the Federal income tax since 1914 will account for the increase in "rent and taxes."

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for other censuses with those for 1919. Statistics presented in this table, however, show that four counties—Cass, Grand Forks, Morton, and Ward—reported 48.2 per cent of the total number of wage earners and of value added by manufacture in North Dakota in 1919.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is often misleading as to their true importance from a manufacturing standpoint. Their ranking might change materially if based upon the average number of wage earners or value added by manufacture.

Persons engaged in manufacturing industries (Table 4).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 25.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed more than 80 wage earners in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more (Table 6).—Comparative figures for Minot are not available, since the city had less than 10,000 inhabitants at censuses prior to 1919.

Wage earners, by months (Table 7).—The statistics for wage earners in this table are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the several census years.

Wage earners, by months, for selected industries and cities (Table 8).—In addition to the number of wage earners employed by months, similar data are given for males and females for all industries combined and for the cities of Fargo, Grand Forks, and Minot. There were few industries in the state in 1919 where the number of female wage earners predominated.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working day in North Dakota. In that year 23.4 per cent of the wage earners were included in the group "48 and under," as against 66.6 per cent in 1919. On the other hand, in 1914 the "60" and "over 60" groups constituted 41.6 per cent of the total wage earners, as compared with 15.9 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and cities (Table 10).— The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 86.2 per cent were in the classes having less than six wage earners, while such establishments employed but 23.4 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—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,

(1125)

and in the case of average number of wage earners and value added by manufacture for 1914.

Size of establishments, by value of products, for selected industries (Table 12).—In the preparation of this table it was necessary in several instances to combine the establishments of one group with those of some other group to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for cities of 10,000 inhabitants or more (Table 13).—This table illustrates the fact that the number of establishments of itself is no real index of manufacturing activities. Minot, for instance, with only 2.9 per cent of the total number of establishments in the state, reported 9.7 per cent of the total value of products.

Character of ownership (Table 14).—The predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 30 per cent of the number of establishments in the state in 1919, they reported 76.5 per cent of the average number of wage earners, and 79.4 per cent of the total value of products. During the five-year

period 1914 to 1919 the average number of wage earners in corporations increased 1,055, or 44.6 per cent, and the value of products, \$29,408,314, or 182.2 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the number of establishments in these three cities in 1919 represented but 19.5 per cent of the total in the state, while they reported 34.9 per cent of the average number of wage earners and 33.3 per cent of the value of products.

Number and horsepower of types of prime movers (Table 16).—Although both the owned and rented power increased from 1914 to 1919, the proportionate increase in rented power was the greater, being 86.9 per cent for the five-year period, as compared with 10.6 per cent for owned power.

Fuel consumed (Table 17).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel.

Table 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, and 1899.

	er est fo	MANUF	CTUBING INDU	STRIES.		P	ER CENT O	P INCREAS	E.J
isti oli eti eti oli selsi silvelsi piliteta la si Hilenooli para silveleeti eli esisti oli oli t	1919	1914	1909	1904	1899	1914- 1919	1909- 191 1	1904- 1909	1999- 1904
Number of establishments	894	699	752	507	337	27. 9	-7.0	48.3	50, 4
Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number).	6, 148 774	4, 627 603 749 3, 275	4, 148 723 636 2, 789	2, 545 494 296 1, 755	(3) (3) 152 1,358	32, 9 28, 4 20, 4 36, 5	11.5 -16.6 17.8 17.4	63. 0 46. 4 114. 9 58. 9	91.7 29.2
Primary horsepower.	17, 791 \$24, 549, 838	14, 062 \$14, 213, 362	13, 196 \$11, 584, 747	9, 873 \$5, 703, 837	7, 351 \$3, 511, 969	26. 5 72. 7	6.6 22.7	33. 7 103. 1	34.3 62.4
Salaries and wages. Salaries Wages.	6, 835, 367 1, 434, 027	3, 302, 200 885, 965 2, 416, 235	2, 416, 135 628, 730 1, 787, 405	1, 289, 119 257, 812 1, 031, 307	800, 853 129, 532 671, 321	107. 0 61. 9 123. 5	36, 7 40, 9 35, 2	87. 4 143. 9 73. 3	61, 0 99, 0 53, 6
Paid for contract work Rent and taxes Cost of materials Value of products Value added by manufacture 4	118, 159 654, 239 44, 489, 499 57, 373, 622	72, 009 213, 828 14, 484, 315 21, 147, 431 6, 663, 116	21, 323 159, 787 13, 673, 590 19, 137, 506 5, 463, 916	17, 869 * 77, 961 7, 095, 986 10, 217, 914 3, 121, 928	(2) (2) 4,150,860 6,259,840 2,108,980	64.1 206.7 207.2 171.3 93.4	237. 7 33. 5 5. 9 10. 5 21. 9	19.3 92.7 87.3 75.0	71. 0 63. 2 43. 0

A minus sign (--) denotes decrease.
 ² Figures not available.

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Exclusive of internal revenue.
4 Value of products less cost of materials.

TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919.

Andrew State Control of the Control	Num- ber of	WAGE	EARNERS.		****		Value added	Determina
COUNTY	estab- lish- ments.	Average number.	Wages.	Rent and taxes.	Cost of materials.	Value of products.	by manufac- ture.	Primary horse- power.
The state	894	4, 472	\$5, 401, 330	\$654, 239	\$44, 489, 499	\$57, 373, 622	\$12, 884, 123	17, 791
Adams	7	6	7, 738	1, 522	54, 090	83, 671	29, 581	99
	24	120	146, 402	29, 942	5, 017, 032	5, 479, 788	462, 756	1,113
	13	7	7, 604	800	114, 233	151, 764	37, 531	141
	3	3	3, 800	334	1, 295	6, 750	5, 455	2
	16	17	16, 606	3, 460	122, 863	209, 677	86, 814	222
Bowman	12	11	9, 218	1, 886	79, 466	109, 265	29, 799	150
Burke	9	36	55, 685	1, 729	144, 541	246, 925	102, 384	82
Burleigh	23	140	168, 348	29, 686	1, 406, 017	1, 967, 081	561, 064	316
Cass	127	903	1, 103, 784	119, 939	6, 490, 815	9, 267, 911	2, 777, 096	2,538
Cavalier	12	14	15, 695	2, 040	39, 644	90, 837	51, 193	91
Dickey.	16	37	38, 649	45, 766	2, 181, 114	2, 493, 874	312, 760	701
Divide	7	6	5, 525	1, 255	43, 147	62, 484	19, 337	33
Dunn	10	6	4, 639	1, 061	81, 685	112, 260	30, 575	159
Eddy	16	105	122, 476	12, 435	206, 711	405, 733	199, 022	143
Emmons	9	7	8, 635	1, 306	18, 485	45, 270	26, 785	51
Foster Golden Valley Grand Forks. Grant Griggs	65 10 10	15 11 546 7 13	18, 058 16, 550 582, 902 8, 025 15, 356	2,771 2,571 110,912 1,444 1,712	126, 841 29, 551 5, 378, 185 29, 219 151, 160	202, 367 62, 157 6, 925, 029 49, 520 198, 357	75, 526 32, 606 1, 546, 844 20, 301 47, 197	105 33 1,301 79 88
Hettinger	1 10	28	34, 877	3, 743	154, 201	244, 790	90, 589	292
Kidder		3	3, 971	446	46, 909	57, 708	10, 799	41
La Moure		20	23, 394	2, 030	259, 011	320, 403	61, 392	405
Logan		3	3, 530	289	47, 547	61, 340	13, 793	92
McHenry		17	24, 055	1, 840	63, 562	110, 097	46, 535	93
McIntosh.	16	33	46, 326	1, 967	149, 074	232, 572	83, 498	113
McKenzie		12	13, 988	2, 778	134, 216	175, 036	40, 820	166
McLean		15	14, 920	2, 110	227, 257	292, 399	65, 142	179
Mercer		6	4, 854	632	110, 820	126, 456	15, 636	92
Morton		342	477, 904	46, 348	3, 169, 264	4, 044, 635	875, 371	1,186
Mountrail. Nelson Oliver Pembina Pierce	3 15 8	11 21 4 17 16	12, 630 21, 914 3, 200 20, 923 15, 115	1, 237 2, 133 64 2, 334 2, 465	7, 577 27, 889 48, 470 352, 971 325, 617	30, 815 85, 230 60, 039 417, 316 376, 605	23, 238 57, 341 11, 569 64, 345 50, 988	24 69 23 159 162
Ramsey Ransom Renville Richland Rolette	23 12 7 45	220 152 8 131	279, 564 215, 135 6, 525 154, 932 7, 115	13, 757 5, 777 1, 146 15, 207 1, 017	543, 780 682, 054 76, 025 1, 224, 486 72, 696	964, 934 989, 070 100, 929 1, 635, 296 99, 370	421, 154 307, 016 24, 904 410, 810 26, 674	444 467 130 679 203
Sargent Sheriden Slope Stark	10 4 5	12 2 149 210	13, 005 2, 197 240, 924 274, 219	1, 483 804 292 38, 301	99, 447 1, 450 71, 119 2, 675, 109	135, 280 9, 038 331, 599 3, 325, 794	35, 833 7, 588 260, 480 650, 685	44 4 22 1,252
Steele .	33	11	13, 253	846	43, 260	74, 675	31, 315	98
Stutsman		290	288, 965	40, 799	4, 202, 683	4, 997, 222	794, 539	1, 183
Towner		6	6, 068	2, 107	10, 902	33, 065	22, 163	81
Traill		30	29, 188	2, 750	82, 578	135, 316	52, 738	161
Walsh	38	87	86, 412	7, 371	2, 198, 398	2, 604, 620	406, 222	734
Ward	39	365	421, 361	62, 716	4, 841, 735	5, 846, 667	1, 004, 932	1,003
Wells	12	62	95, 825	3, 344	284, 664	433, 688	149, 024	433
Williams	20	171	188, 746	13, 535	538, 534	850, 898	312, 364	310

¹ Billings and Sioux Counties combined to avoid disclosure of individual operations.

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

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
	establish- ts.	WAG EARNE		VALUE PRODU		VALI ADDEI MANU TUR	BY FAC-	WAGE VALUE OF AD	ALUE DED BY NUFAC- URE.
industry.	Number of e	Averag	Per cent dis- tribution.	Amount (expressed in thousands).	Per cent dis- tribution.	Amount (expressed in thousands).	Per cent distribution.	INDUSTRY. 55 1. 1. 1. 1.	thousands). Per cent distribution.
Allindustries	894	4, 472	100.0	\$57,374	100.0	\$12,884		Confectionery and ice cream. 20 107 2.4 \$757 1.3 \$3 Saddlery and harness 14 65 1.5 676 1.2 1	17 2.5 72 1.3 22 2.5
Flour-mill and gristmill products Butter	87 57	568 212	12.7 4.7	29,282 11,122	51. 0 19. 4	3,059 1,125	23.7 8.7	Marble and stone work 12 33 0.7 496 0.9 1	72 1.3 22 2.5 93 1.5 94 1.5
Cars and general shop construction and repairs by steam-railroad companies.	21	1,539	34.4	3,183	5.5	2,241	17.4	Mineral and carbonated waters	91 1.5 29 1.8 21 1.7
Printing and publishing, newspapers and periodicals Bread and other bakery products Automobile repairing	301 68 139	557 242 303	12. 5 5. 4 6. 8	2,686 1,950 1,232	4.7 3.4 2.1	2,052 737 686	15.9 5.7 5.3	Brick and terra-cotte products 5 140 3.1 309 0.5 2	21 1.7 27 1.8 18 7.1

Manager Force (Manager Const.) after the standard of the extra const. And the extra const.

Table 4.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919, 1914, AND 1909.

CLASS.	Cen-	Total	35-1-	Fe-		CENT OTAL.		Cen-	m . 4.1	16.1.	Fe-	PER (
Chassi	sus year.	TOURL	Male.	male.	Male.	Fe- male.	CLASS.	sus year.	Total,	Male.	male.	Male.	Fe- male.
All classes	1919 1914 1909	6,148 4,627 4,148	5, 578 4, 164 3, 777	570 463 371	90. 7 90. 0 91. 1	9.3 10.0 8.9	Clerks and other subordinate salaried employees.	1919 1914 1909	522 492 394	325 356 303	197 136 91	62.3 72.4 76.9	37.7 27.6 23.1
Proprietors and officials	1919 1914 1909	1,154 860 965	1,117 836 936	37 24 29	96. 8 97. 2 97. 0	3. 2 2. 8 3. 0	Wage earners (average number)	1919 1914 1909	4, 472 3, 275 2, 789	4,136 2,972 2,538	336 303 251	92.5 90.7 91.0	7.5 9.3 9.0
Proprietors and firm members	1919 1914 1909	774 603 723	745 582 697	29 21 26	96. 3 96. 5 96. 4	3. 7 3. 5 3. 6	16 years of age and over	1919 1914 1909	4, 407 3, 245 2, 732	4,077 2,945 2,489	330 300 243	92.5 90.8 91.1	7. 5 9. 2 8. 9
Salaried officers of corporations	1919 1914 1909	112 63 64	108 62 64	4 1	96. 4 98. 4 100. 0	3. 6 1. 6	Under 16 years of age	1919 1914 1909	65 30 57	59 27 49	6 3 8	90.8 90.0 86.0	9.2 10.0 14.0
Superintendents and managers	1919 1914 1909	268 194 178	264 192 175	4 2 3	98. 5 99. 0 98. 3	1.5 1.0 1.7			-				

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

		Wass	PER C	ENT OF T	OTAL.			TTP	PER CE	NT OF T	OTAL.
INDUSTRY.	Cen- sus year.	Wage earners (aver- age num-	to year	s of age over.	Un- der 16	INDUSTRY.	Cen- sus year.	Wage earners (aver- age num-	16 year and	s of age over.	Un- der 16
		ber).	Male.	Fe- male.	years of age.			ber).	Male.	Fe- male.	year of age.
All industries	1919 1914 1909	4,472 3,275 2,789	91. 2 89. 9 89. 3	7.4 9.2 8.7	1.5 0.9 2.0	Confectionery and ice cream	1919 1914	107 109	42.1 36.7	57.9 63.3	*****
Automobile repairing	1919 1914	303 13	99. 7 100. 0	0.3		Flour-mill and gristmill products Foundry and machine-shop products	1919 1914 1919	568 424 85	98.9 100.0	0.7	0.
Bread and other bakery products	1919 1914	242 205	64. 9 72. 2	33. 9 27. 3	1.2 0.5	Printing and publishing, book and job	1914 1914	76 103	100.0	18.4	5.
Brick and terra-cotta products	1919 1914	140 171	88. 6 100. 0	0.7	10.7	Printing and publishing, newspapers and	1914 1919	127 557	76.4 77.2	22.8 16.9	0. 5.
Butter	1919 1914	212 115	90.1 97.4	9.4	0.5 1.7	periodicals. All other industries	1914 1919	625 616	80. 6 94. 6	16.0 4.5	0.
Cars and general shop construction and r pairs by steam-railroad companies.	e- 1919 1914	1,539 871	98.8 99.8	1.2	0.2		1914	539	91.1	8.3	0.4

¹ Includes "iron and steel, welding."

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

in the second of	2	PARGO.			GRAND FORKS.		MINOT.
	1919	1914	1909	1919	1914	1909	1919
ge earners (average number) 16 years of age and over. Male Female. Under 16 years of age	723 720 614 106 3	690 689 555 134	510 506 434 72 4	501 491 429 62 10	343 341 301 40 2	350 336 275 61 14	33 33 32 1

TABLE 7.-WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

MONTH.		NUMBER.1		PER CE	NT OF M	XIMUM.			NUMBER.1		PER CE	NT OF MA	XIMUM.
MONIH,	1919	1914	1909	1919	1914	1909	MONTH.	1919	1914	1909	1919	1914	1909
January February March April May June.	3,996 4,014 3,989 4,175 4,224 4,573	3,000 2,954 2,976 3,104 3,207 3,442	2,356 2,386 2,443 2,580 2,816 3,041	82. 4 82. 8 82. 2 86. 1 87. 1 94. 3	82, 8 81, 5 82, 1 85, 6 88, 5 95, 0	77. 2 78. 2 80. 0 84. 5 92. 3 99. 6	July	4,841 4,847 4,758 4,850 4,731 4,666	3,625 3,554 3,533 3,397 3,333 3,175	3,004 2,880 2,927 3,033 3,052 2,950	99. 8 99. 9 98. 1 100. 0 97. 5 96. 2	100. 0 98. 0 97. 5 93. 7 91. 9 87. 6	98. 4 94. 4 95, 9 99. 4 100. 0 96. 7

¹ The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by bold-faced figures, minimum by ttalk figures.

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919. [The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by italic figures.]

And the second of the second	Aver- age num-	N	UMBER 1	EMPLOYE	D ON 15	TH DAY	OF THE 1	MONTH (OR NEAR	EST REP	RESENTA	TIVE DA	Υ.	l'er cent
INDUSTRY AND CITY.	ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August.	Sep- tember.	Octo- ber.	Novem- ber.	Decem- ber.	raini- naini is of maxi- mum.
All industries Males Females.	4,472	3, 996	4,014	3,989	4,175	4,224	4,573	4,841	4,847	4,758	4,850	4,731	4,666	82, 2
	4,136	8, 703	3,724	3,703	3,866	3,902	4,224	4,488	4,481	4,403	4,481	4,359	4,298	82, 5
	336	293	290	286	309	322	349	353	366	355	369	372	368	76, 9
Automobile repairing Bread and other bakery products Brick and terra-cotta products Butter	303 242	203 213 114 131	209 209 114 133	229 206 118 135	301 216 121 208	323 224 129 239	368 246 201 308	392 265 208 326	389 270 169 271	374 278 134 224	337 263 162 204	273 264 119 193	228 255 68 172	51. 8 75. 5 42. 3 40. 2
Cars and general shop construction and repairs by steam-railroad companies. Confectionery and ice cream. Flour-raill and gristmill products.	1,539	1,575	1,574	1,539	1,526	1,438	1,418	1,479	1,505	1,493	1,609	1,633	1,679	84.5
	107	82	91	92	94	105	111	113	119	111	122	121	123	06.7
	568	580	584	551	547	551	546	<i>538</i>	555	600	619	592	553	86.9
Foundry and machine-shop products. Printing and publishing, book and job. Printing and publishing, newspapers and periodicals All other industries.	81	59	62	66	73	80	89	107	99	96	85	79	76	55. 1
	103	94*	97	98	96	103	105	97	106	105	107	113	115	81. 7
	557	538	534	539	549	552	567	556	561	567	567	571	583	91. 6
	620	407	407	416	444	480	611	760	803	781	774	773	784	51. 9
Industries showing large proportion of females.														
Bread and other bakery products	82	67	65	62	68	71	85	90	95	97	94	98	92	63.3
	62	50	56	54	54	60	64	61	64	60	72	73	76	65.8
	100	96	92	91	100	97	105	100	103	99	105	102	110	82.7
Total for cities	1,560	1,355	1,383	1,374	1,519	1,518	1,651	1,709	1,665	1,657	1,675	1,622	1,592	79: 3
	1,382	1,205	1,230	1,227	1,366	1,356	1,471	1,528	1,468	1,465	1,470	1,411	1,387	78: 9
	178	150	153	147	153	162	180	151	197	192	205	211	205	69: 7
FARGOMalesFemales	723	605	602	614	678	706	795	823	787	791	777	755	743	73. 1
	617	514	517	530	588	614	690	718	670	668	654	623	618	71. 6
	106	91	85	84	90	92	105	105	117	123	123	132	125	63. 6
GRAND FORKS	501	427	449	445	484	497	529	550	546	527	535	516	507	77. 6
	439	376	389	389	429	437	466	489	480	470	463	446	434	76. 9
	62	51	60	56	55	60	63	61	66	57	72	70	73	69. 9
Minot. Males Females.	336 326 10	323 315 8	332 324 8	315 308 7	357 349 8	\$15 305 10	327 315 12	336 321 15	332 318 14	339 327 12	363 353 10		342 335 7	86. 8 86. 4 46. 7

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

	_ < 0.0		IN ESTAB	LISHMENTS	WHERE TH	ie prevail	ING HOUR	e of labor	PER WEE	C WERE-
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.	1919 1914 1909	4,472 3,275 2,789	(2) (2) (2)	167 (2) (2)	2, 782 765 423	109 116 186	439 560 542	234 472 227	633 996 1, 303	80 366 108
Automobile repairing.	1919 1914	303 13			49	3	78 2	1 1	169 10	3
Bread and other bakery products	1919 1914	242 205	····(z)	(2)	162 12	10	17 33	4 2	45 122	14 26
Brick and terra-cotta products	1919 1914	140 171				7	· 85 16		48 155	
Butter	1919 1914	212 115	(²)	(²)	30 3	2	15 9	5 5	126 60	34 38
Cars and general shop construction and repairs by steam-railroad companies.	1919 1914	1,539 871	(3)	145 (²)	1, 212 280		88	182 341		162
Confectionery and ice cream	1919 1914	107 109	····(²)	(3)	60 3	12	26 60	1 45	6	2
Flour-mill and gristmill products	1919 1914	568 424	7		371	1	45 13	í	119 317	25 93
Foundry and machine-shop products ³	1919 1914	85 76	(2)	(2)	6 2	28	7 2		44 72	
Printing and publishing, book and job	1919 1914	103 127	(²)	(2)	101 97	2 27	3			
Printing and publishing, newspapers and periodicals	1919 1914	557 625	(²) 12	(²) 2	472 308	20 64	32 183	······g·	17 59	2 2
All other industries.	1919 1914	616 539	(2)	(2) 20	319 60	34 15	134 151	41 67	59 201	45
Total for cities	1919 1914	1,560 1,033	(³)	20 (²)	999 218	74 43	236 172	39 114	160 347	23 139
FARGO	1919 1914	723 690	(²)	(2)	361 136	74 41	129 147	32 27	75 259	23 80
GRAND FORKS.	1919 1914	501 343	(2)	(2)	340 82	······2	103 25	87	58 88	59
MINOT	1919	336			298		4	7	27	

² Corresponding figures not available.

Table 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

	то	TAL.				ESTAB	LISHME	NTS EN	APLOYIN	G.—			
INDUSTRY AND CITY.	ents.	e carners (average number).	No wage earn- ers.	eari	5 wage ners, isive.	earr	0 wage ners, nsive.	ear.	60 wage ners, isive.	ear	o 100 age ners, isive.		age ners.
	Establishments.	Wage carr age nu	Establish- ments.	Establish- ments.	Wago earners.	Establish- ments.	Wago earners.	Establish- ments.	Wage. carners.	Establish- ments.	Wage	Establish- ments.	Wage earners.
All industries	804	4,472	211	560	1,046	84	860	24	765	5	380	10	1,421
Automobile repairing Bread and other bakery products Brick and terra-cotta products. Brick and terra-cotta products. Butter Cars and general shop construction and repairs by steam-railroad companies. Confectionery and ice cream. Flour-mill and gristmill products. Foundry and machine-shop products. Printing and publishing, book and job Printing and publishing, newspapers and periodicals. All other industries.	68 57 21 20 87 20 17 301 159	303 242 140 212 1,539 107 568 81 103 557 620	12 19 7 3 14 4 5 109 38	13 51 13 7 173 97	216 100 1 70 11 21 99 29 17 281 192	9 6 2 6 5 2 15 2 4 14 19	87 59 27 83 65 19 130 24 61 123 182	1 2 3 2 5 1 1 5 4	27 50 96 67 207 28 25 153 112	1 1 2	80 132	1	1,287
Total for cities	174	1,560	23	82	196	52	534	13	396	2	139	2	295
FABGO. GRAND FORES. MINOT.	101 47 26	723 501 236	15 2 6	45 28 9	110 62 24	34 9 9	369 92 73	6 7	161 235	1 1	83 50	i i	112 183

TABLE 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

						·						
VALUE OF PRODUCT.		UMBER (GE NUMB		VAI	UE OF PRODU	CTS.	VALUE ADI	DED BY MANU	FACTURE.
	1919	1914	1909 1919 1914 1909		1919	1914	1909	1919	1914	1909		
All classes	894	699	752	4,472	3,275 2,789		\$57,373,622	\$21,147,431	\$19,137,506	\$12,884,123	\$6,663,116	\$5, 463, 91
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 .	357 282 175 63 5 12	360 206 92 33 1 8	382 238 99 } 133	202 582 892 2,104 145 547	302 581 886 } 1,506	351 628 951 1 859	958, 443 2, 800, 704 7, 338, 004 { 13, 341, 254 3, 069, 209 29, 866, 008	906,316 2,000,450 4,038,119 6,074,865 1 8,127,681	915,406 2,350,795 4,767,125 } 1 11,104,180	847,801 1,589,010 2,676,934 4,585,937 470,701 2,913,740	677,473 1,009,318 1,677,089 } 1 3,299,236	658,53 1,103,61 1,703,21 1,998,55
							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.
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.	39. 9 31. 5 19. 6 7. 0 0. 6 1. 3	51.5 29.5 13.2 4.7 1.2	50.8 31.6 13.2 } 4.4	$ \left\{ \begin{array}{r} 4.5 \\ 13.0 \\ 19.9 \\ 47.1 \\ 3.2 \\ 12.2 \end{array} \right. $	9, 2 17, 7 27, 1 } 46, 0	12.6 22.5 34.1 30.8	1.7 4.9 12.8 23.3 5.3 52.1	4.3 9.5 10.1 28.7 38.5	4.8 12.3 24.9 58.0	5. 0 12. 3 20. 8 35. 6 3. 7 22. 6	10. 2 15. 1 25. 2 49. 5	12. 20. 31. 36.
							ł ·			i		

¹ Includes the group "\$1,000,000 and over."

Table 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

Santan Santan Santan	E		BER OF ISHMEN				NUMBE EARNEI		VAL	UE OF PROD	ucts.		VALUE AD	DED BY MA	NUFACI	URE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914	Per distrib		1919	1914	Per o distrib		1919	1914	Per o distrib		1919	1914	Per o distrib	
			1919	1914	1010	1011	1919	1914	1010	1914	1919	1914	1010	1014	1919	1914
AUTOMOBILE REPAIRING	139	6	100.0	100.0	303	13	100.0	100.0	\$1,231,981	\$36,651	100.0	100.0	\$656,060	\$21,984	100. 0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 and over	63 65 11	3 3	45. 3 46. 8 7. 9	50. 0 50. 0	51 175 77	1 12	16. 8 57. 8 25. 4	7. 7 92. 3	174, 218 631, 015 426, 748	9,200 27,451	14. 1 51. 2 34. 6	25. 1 74. 9	114,777 396,395 174,888	6,046 15,938	16. 7 57. 8 25. 5	27. 4 72. 5
Bread and other bakery prod- ucts	68	58	100.0	100.0	242	205	100, 0	100.0	1,949,673	810, 465	100.0	100.0	736,937	365,785	100. 0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 and over.	13 28 27	21 32 5	19. 1 41. 2 39. 7	36. 2 55. 2 8. 6	2 30 210	14 86 105	0. 8 12. 4 86. 8	6. 8 42. 0 51. 2	42,691 291,275 1,615,707	64,779 313,551 432,135	2. 2 14. 9 82. 9	8. 0 38. 7 53. 3	13,837 116,267 606,833	30, 562 143, 013 192, 210	1. 9 15. 8 82. 3	8. 4 39. 1 52. 5
BUTTER	57	58	100.0.	100.0	212	115	100.0	100.0	11, 121, 687	1,739,692	100.0	100.0	1, 125, 017	275, 215	100. 0	190.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over.	34	1 36 17 5	5.3 10,5 59.6 14.0 10.5	62. 1 29. 3 8. 6	1 2 53 39 117	1 33 40 42	0. 5 0. 9 25. 0 18. 4 55. 2	28. 7 34. 8 36. 5	8,783 84,925 1,595,652 1,583,208 7,849,119	1 434,887 567,606 737,199	0. 1 0. 8 14. 3 14. 2 70. 6	25. 0 32. 6 42. 4	2,654 22,008 227,634 203,337 669,384	1 57, 595 91, 522 126, 098	0. 2 2. 0 20. 2 18. 1 59. 5	20. 9 33. 3 45. 8
FLOUR-MILL AND GRISTMILL PROD- UCTS	87	59	100.0	100,0	568	424	100.0	100.0	29, 282, 056	12, 029, 905	100.0	100.0	3,058,961	1,957,661	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 and over.	36	3 11 24 221	4.6 19.5 41.4 24.1 10.3	5, 1 18, 6 40, 7 35, 6	9 62 139 358	1 14 65 2344	1. 6 10. 9 24. 5 63. 0	0. 2 3. 3 15. 3 81. 1	12, 196 214, 197 1, 595, 401 4, 900, 312 22, 559, 950	10, 428 113, 789 1, 160, 300 210, 745, 388	0.1 0.7 5.4 16.7 77.0	0. 1 0. 9 9. 6 89. 3	2,351 29,297 257,359 516,154 2,253,800	1, 821 21, 036 211, 702 21, 723, 102	0. 1 1. 0 8. 4 16. 9 73. 7	0. 1 1. 1 10. 8 88. 0
PRINTING AND PUBLISHING, NEWS- PAPERS AND PERIODICALS	301	331	100.0	100.0	557	625	100.0	100.0	2, 685, 869	1,805,071	100.0	100.0	2,051,953	1,488,258	100. 0	100.6
Less than \$5,000. \$5,00 0 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000.	. 19	256 64 8 11	68. 8 23. 6 6. 3 1. 3	77. 3 19. 3 3. 3	167	225 200 3 200	20, 6 30, 0 28, 4 21, 0	36. 0 32. 0 32. 0	552, 838 601, 448 775, 995 755, 588	637, 645 495, 284 2 672, 142	22, 4	27. 4 37. 2	416,348 461,610 614,740 559,255	525,780 394,576 3 567,902	20.3 22.5 30.0 27.2	26. 5 38. 2

¹ Includes the group "Less than \$5,000."

Table 13.—Size of establishments, by value of products, for cities of 10,000 inhabitants or more: 1919.

A STATE OF THE STA	- Colon Colon • Shaple of the entropy		Number of estab-	WAGE I	EARNERS.	VALUE OF PE	CODUCTS.	VALUE ADD MANUFACT	
	CITY AND VALUE OF PROD		lish- ments.	Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
FARGO		 	101	723	100.0	\$6, 770, 575	100.0	\$2, 422, 736	100.
Less than \$5,000\$5,000 to \$20,000\$20,000 co \$100,000 and over	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		19 33 30 19	7 101 221 394	1.0 14.0 30.6 54.5	40, 465 391, 187 1, 202, 838 5, 136, 085	0.6 5.8 17.8 75.9	31, 199 251, 875 627, 390 1, 512, 272	1. 10. 25. 62.
O- or Honza	1.40	 	47	. 501	100.0	6, 779, 123	100.0	1,460,803	100.
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over			5 20 15 7	4 55 145 297	0. 8 11. 0 28. 9 59. 3	12, 318 208, 315 651, 673 5, 906, 817 5, 561, 236	0. 2 3. 1 9. 6 87. 1 100. 0	6, 909 124, 908 342, 516 986, 476 915, 206	0. 8. 23. 67.
MINOT			3	22 47 267	6. 5 14. 0 79. 5	6, 927 116, 760 336, 652 5, 100, 897	0.1 2.1 6.1 91.7	5, 269 69, 296 165, 049 675, 592	0. 7. 18. 73.

² Includes the group "\$500,000 and over."

^{*}Includes the group "\$100,000 to \$500,000."

TABLE 14.—CHARACTER OF OWNERSHIP FOR SELECTED INDUSTRIES AND CITIES: 1919 AND 1914.

		NU	MBER	OF	AVE	RAGE	NUMBE	R OF	WAGE	EARNE	RS.		v	ALUE OF PR	oducts.			
INDUSTRY AND CITY.	Cen- sus year.	ESTA	BLISHM NED B	ENTS			tablishi vned by		Per	ent of	total.	•	Ofestabl	ishments ov	med by—	Per c	ent of t	iotal.
	year.	Indi- vid- uals.	Corpora- tions.	All oth- ers.	Total.	Indi- vid- uals.	d- pora- oth- vid- po	Cor- pora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	oth-		
All industries	1919	451	268	175	4,472	583	3, 421	468	13. 0	76.5	10.5	\$57,373,622	\$5, 191, 635	\$45,548,509	\$6,633,478	9.0	79.4	11.6
	1914	418	165	116	3,275	703	2, 366	206	21. 5	72.2	6.3	21,147,431	3, 262, 469	16,140,195	1,744,767	15.4	76.3	8.3
	1909	472	133	147	2,789	775	1, 752	262	27. 8	62.8	9.4	19,137,506	3, 555, 937	13,586,608	1,994,961	18.6	71.0	10.4
Automobile repairing	1919 1914	68 1	29 1	42 4	303 13	92	132	79 1 13	30.4	43.6	26.1	1,231,981 36,651	346, 252	534,914	350,815 1 36,651	28. 1	43.4	28.5
Bread and other bakery products.	1919	51	5	12	242	100	109	33	41.3	45.0	13.6	1,949,673	897, 103	759,148	293,422	46.0	38.9	15.0
	1914	48	5	5	205	99	91	15	48.3	44.4	7.3	810,465	374, 288	353,500	82,671	46.2	43.6	10.2
Butter	1919	21	18	18	212	28	140	44	13. 2	66.0	20.8	11,121,687	918, 285	8,187,298	2,016,104	8.3	73.6	18.1
	1914	14	21	23	115	27	56	32	23. 5	48.7	27.8	1,739,692	425, 525	881,514	432,653	24.4	50.7	24.9
Flour-mill and gristmill prod-	1919	23	49	15	568	32	501	35	5. 6	88. 2	6.2	29, 282, 056	1,073,858	27,095,305	1,112,893	3.7	92.5	3.8
ucts.	1914	13	37	9	424	38	354	32	9. 0	83. 5	7.5	12, 029, 905	1,005,772	10,345,596	678,537	8.4	86.0	5.6
Printing and publishing,	1919	179	77	45	557	154	358	45	27. 6	64.3	8.1	2,685,869	788,009	1,598,017	299, 843	29.3	59. 5	11.2
newspapers and periodicals.	1914	244	37	50	625	318	261	46	50. 9	41.8	7.4	1,805,071	821,368	709,857	273, 846	45.5	39. 3	15.2
Total for cities	1919	55	82	37	1,560	151	1,288	121	9. 7	82. 6	7.7	19,110,934	1,069,033	16,089,326	1,952,575	5.6	84.2	10.2
	1914	37	55	16	1,033	137	862	34	13. 3	83. 4	3.3	4,821,712	456,632	4,170,158	194,922	9.5	86.5	4.0
FARGO	1919	36	44	21	723	109	535	79	15. 1	74. 0	10. 9	6,770,575	829,617	4,329,267	1,611,691	12.3	63.9	23.8
	1914	28	36	12	690	109	552	29	15. 8	80. 0	4. 2	3,006,043	396,715	2,504,307	105,021	13.2	83.3	3.5
GRAND FORKS	1919	12	26	9	501	24	462	15	4.8	92. 2	3.0	6,779,123	127, 433	6,550,027	101,663	1.9	96.6	1.5
	1914	9	19	4	343	28	310	5	8.2	90. 4	1.4	1,815,669	59, 917	1,665,851	89,901	3.3	91.7	5.0
MINOT	1919	7	12	7	336	18	291	27	5.4	86.6	8.0	5,561,236	111,983	5, 210, 032	239, 221	2.0	93.7	4.3

1 Includes the groups "Individuals" and "Corporations."

Table 15.—MANUFACTURES, BY POPULATION GROUPS, IN CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

				Cen-	:	CITIES HAVING LATION OF OVER.				
			8	sus year.	Aggregate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	
Number of places				1919 1914 1909		3 2 2				
Population 1				1920 1915 1910	646, 872 686, 966 577, 056	46, 447 31, 178 26, 809	7.2 4.5 4.6	600, 425 655, 788 550, 247	92. 8 95. 5 95. 4	
Number of establishments		••••••		1919 1914 1909	894 699 752	174 108 99	19. 5 15. 5 13. 2	720 591 653	80. 5 84. 5 86. 8	
Average number of wage earners.			•••••	1919 1914 1909	4,472 3,275 2,789	1,560 1,033 860	34. 9 31. 5 30. 8	2, 912 2, 242 1, 929	65. 1 63. 2 69. 2	
Value of products	 			1919 1914 1909	\$57, 373, 622 21, 147, 431 19, 137, 506	\$19, 110, 934 4, 821, 712 4, 386, 907	33. 3 22. 8 22. 9	\$38, 262, 688 16, 325, 719 14, 750, 599	66.7 77.2 77.1	
Value added by manufacture	 		*********	1919 1914 1909	12, 884, 123 6, 663, 116 5, 463, 916	4, 798, 745 2, 087, 718 1, 726, 061	37. 2 31. 3 31. 6	8, 085, 378 4, 575, 398 3, 737, 855	62. 8 68. 7 68. 4	

Population of 1920, as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

TABLE 16.-NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

	NUM	BER OF ENG				Horsepowe	R.		ı
FOWER.	sięnie i	OR MOTORS.			Amount,	Per cent distribution.			
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total	1,639	1,036	749	17, 791	14,062	13, 196	100.0	100.0	100.0
Owned	409 114 103 11	438 135 (1) (1)	442 169 (1)	12, 301 10, 060 9, 589 471	11, 124 9, 627	12,004 10,170 (1)	69. 1 56. 5 53. 9 2. 6	79. 1 68. 5	91.0 77.1
Turbines Internal-combustion engines. Water Water wheels and turbines Water motors.	289 6 5 1	294 9 6 3	265 8 8	1, 981 260 250 10	1, 198 299 273 26	1,304 530 530	11. 1 1. 5 1. 4 0. 1	8.5 2.1 1.9 0.2	9.9 4.0 4.0
Rented Electric. Other.	1,230 1,230	598 598	397 307	5, 490 5, 490	2, 938 2, 850 82	1, 192 1, 164 28	30. 9 30. 9	20. 9 20. 3 0. 6	9.0 8.8 0.2
Electric	1,357 1,230 127	660 598 62	335 307 28	6,773 5,490 1,283	3, 800 2, 856 944	1,698 1,164 534	100. 0 81. 1 18. 9	100. 0 75. 2 24. 8	100, 0 68, 6 31, 4

¹ Not reported separately.

TABLE 17.-FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

		-			· · ·		
	C	OAL.	6.1-			Gas	
INDUSTRY AND CITY.	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	(1,000 cubic	
All industries 1919 Per cent of increase 2 1914	1,736 5,282 —67.1	192, 434 145, 871 31. 9	1,498 1,371 9.3	2,559 3,280 48.9	(1) (1)	6, 451 2, 221 190. 5	
Automobile repairing Bread and other bakery products. Brick and terra-cotta products.	146 585	2,111 3,497 15,165	12 373	19 12	320 18	544 1,933	
Butter Cars and general shop construction and renaits by steam-reilroad companies	266	6,015 56,519 79,962	72	22 814	125 970		
Flour-mill and gristmill products Gas, illuminating and heating Printing and publishing, newspapers and periodicals All other industries.	289 167	15, 839 3, 026 10, 300	625 17 397	1,620 45 27	488 403	1,933 2,041	
Total for cities.	588	49, 449	433		230	4,915	
FARGO. GRAND FORKS. MINOT.	304 137 147	16, 541 11, 621 21, 287	149 162 122		48 160 22	3,063 1,852	

¹ Included in figures for fuel oils.

² A minus sign (--) denotes decrease.

SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for three of these industries for North Dakota are here presented.

Burgar William Die er

Flour-mill and gristmill products (Table 18).— Wheat flour is the predominating product at each of the censuses for which figures are shown, representing 77.3 per cent of the total value of products for the industry in 1909, 82 per cent in 1914, and 85.4 per cent in 1919. As illustrative of the high prices of commodities in 1919 as compared with 1914, the quantity of wheat flour increased 2.7 per cent during that five-year period, while the value shows a gain of 153.3 per cent.

Table 18.—Flour-Mill and Gristmill Products (Merchant Mills): 1919, 1914, and 1909.

	1919	1914	1909
Total value	\$29, 282, 056	\$12,029,905	\$11,685,116
Wheat flour:			
Barrels	2, 224, 428	2, 165, 078	1,825,920
Value	\$24,989,758	\$9,864,400	\$9,034,418
Graham flour:	422, 500, 100	\$0,00±,±00	40,002,210
Barrels	727		
Value	\$7,726	!	
D 0	41,120		
Barrels	361	844	153
Value	\$3,357	\$4,037	\$ 581
Corn meal and corn flour:	- 40,000	V1,001	4001
Barrels	205	445	1,626
Value	\$1,794	\$2,129	\$5, 124
Buckwheat flour:	4-,101	4-, 2-0	40,
Pounds	700	!	
Value.	\$56		
Barley meal:			
Pounds	144,000		
Value.	\$ 3,300		
Bran and middlings:	45,000		
Tons	68, 267	80,415	١ ٠.
Value	\$2,779,831	\$1,594,835	
Reed and offale	4 -,,	42,002,000	106,932
Tons.	32,609	13,575	\$2,360,171
Value	\$1,489,373	\$463,155	1
Breakfast foods:		1,	•
Pounds	13,260	363,761	
Value	\$862	\$18,480	
	V	1,	
All other cereal products, value		\$74,619	\$266, 213
All other products, value	\$ 5,999	\$8,200	\$18 509

Butter (Table 19).—From 1914 to 1919 there was a much greater increase in both the quantity and value of butter packed solid as compared with that for prints or rolls, the former increasing 277.7 per cent in quantity and 658.1 per cent in value, and the latter 90.5 per cent and 305.8 per cent, respectively.

TABLE 19.—BUTTER: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	\$11,121,687	\$1,739,692	\$1,029,135
Butter:			
Packed solid— Pounds	17,069,098	4, 518, 736	2, 873, 519
Value	\$8,807,596	\$1,161,820	\$756, 158
Prints or rolls— Pounds	2, 467, 887	1, 295, 504	810, 160
Value	\$1,398,802	\$344,672	\$225, 197
Cream sold: Pounds	110,994	307, 547	3,348
Value	\$22,396	\$30,941	\$496
All other products, value.	\$592,893	\$202, 259	\$47, 284

Printing and publishing (Table 20).—This table shows the number and average circulation per issue of all newspapers and periodicals published in North Dakota during the years 1919, 1914, and 1909. Of the daily newspapers, 11, with a circulation of 52,819, were published in the afternoon. Nine publications were printed in foreign languages—4 in German, 3 weekly and 1 semiweekly; 2, weekly, in English and German; 2 in Norwegian, 1 weekly and 1 semiweekly; and 1, semiweekly, in English and Norwegian. The aggregate circulation of these was 15,370.

Table 20.-Printing and Publishing: 1919, 1914, and 1909.

PERIOD OF ISSUE.		MBER LICATI		AGGREGATE CIRCULATION PER ISSUE.						
	1919	1914	1909	1919	1914	1909				
Total	324	341	333	495, 118	457, 595	372,642				
Daily 1 Weekly 2 Monthly 2	16 298 10	12 317 12	16 311 6	110,669 321,074 63,375	74,660 267,275 115,660	80, 854 260, 298 31, 500				

1 Includes 2 Sunday newspapers in 1919 and 1914 and 4 in 1909. 2 Includes 3 semiweekly newspapers in 1919, 2 in 1914, and 1 in 1909. 8 Includes 2 bimonthly publications in 1914 and 1 in 1909.

Laundries (Table 21).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 21, however, summarizes the statistics for such laundries in the state of North Dakota for 1919 and 1914.

Table 21.—Power Laundries: 1919 and 1914.

NUMBER OF	AMOUNT.	Per cent
1919	1914	crease,1 1914- 1919.
29 438 27	30 478 31	2, 1
35 426 506 \$645,070	409 725	4.2 -30.2 11.3
334, 889 57, 592 277, 297	242,805 34,852 207,953	37. 9 65. 3
1, 233 25, 557 255, 235 844, 433	2, 155 13, 884 142, 804 592, 843	-42.1 84.1 78.1
	29 438 27 35 420 506 \$615,070 334,889 57,592 277,297 1,233 25,557 255,535	29 30 488 478 27 31 35 426 409 506 725 \$615,070 \$552,458 334,889 242,805 57,592 34,852 277,297 207,953 1,233 2,155 26,557 13,884 255,235 142,804

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

Dyeing and cleaning (Table 22).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 22.—Dyeing and Cleaning: 1919.

Albert Albert Made William (1997) The Charles Made Made Company (1997)	Number or amount.
Yumber of establishments Prsons engaged Proprietors and firm members	
Proprietors and firm members	. 9 2
Wage earners (average number)	
rimary horsepower.	7
alaries and worse	\$140, 53
Salaries. Wages Vages 'aid for contract work	4, 5
aid for contract work.	57, 85 5, 8
tent and taxes ost of materials.	
mountraceived for work done.	40, 9 201, 0

Custom gristmills (Table 23) .-- A summary of the more important data for custom gristmills is presented in this table. These statistics are not included in the general tables nor in the totals for manufacturing industries.

TABLE 23.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OF	AMOUNT.	Per cent
	1919	1909	ofin- crease,1 1909- 1919.
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Rent and taxes. Cost of materials a Value of products 3	98 109 89 2 18 2,336 3357,070 17,225 1,543 15,652 6,296 1,800,135 2,124,677	58 79 60 2 17 1,270 \$168,192 8,860 7,580 (2) 730,458 824,782	

¹ Percentages are omitted where base is less than 100. 2 Figures not available. 4 Includes estimate of all grain ground.

GENERAL TABLES.

Table 24 gives the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for all industries combined and for selected industries in the state; and for the cities, Fargo and Grand Forks, similar data for all industries combined, 1919, 1914, and 1909. Certain kindred industries are com-

bined in some instances for comparison with the 1909

Table 25 presents, for 1919, statistics in detail for the state as a whole and for each industry that can be shown without the disclosure of individual operations and the statistics for all industries combined for the three cities of 10,000 inhabitants or more.

TABLE 24.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND CITIES: 1919, 1914, AND 1909.

INDUSTRY.	Cen- sus year.		Wage earners (aver- age num-	Pri- mary horse- power.	Wages	Cost of mate- rials.	Value of prod- ucts,	INDUSTRY.	Cen- sus year.	estab- lish-	Wage earners (aver- .age num-	Pri- mary horse- power.	Wages	Cost of mate- rials.	Value of prod- nets.
		ments.	ber).			xpresse thousan				ments.	ber).	po#u.	Ex t	pressed	in is.
Allindustries	1919 1914 1909	891 699 752	4, 472 3, 275 2, 789		2.416	14, 484	\$57,374 21,147 19,138	Gas, illuminating and heating	1919 1914 1909	5 9 6	43 52 28	66 65 52	\$60 29 13	\$155 109 78	\$384 273 199
Automobilerepairing	1919 1914	139 6	303 13	767 33	368 8	546 15	1,232 37	Lumber, planing-mill products, not including planing mills connected with sawmills.	1919 1914 1909	10 6 8	48 69 63	423 289 249	40 53 50	90 167 89	198 249 187
Bread and other bakery products.	1919 1914 1909	68 58 67	242 205 146	328 226 88	223 121 84	1,213 445 346	1,950 810 601	Marble and stone work	1919 1914 1909	12 7 7	33 21 15	71 19 13	48 17 11	303 50 43	496 92 96
Brick and terra-cotta products	1919 1914 1909	5 9 13	140 171 188	901 1,728 668	157 101 88	81 59 73	309 270 287	Mineral and carbonated waters.	1919 1914 1909	22 24 26	31 56 63	76 149 103	34 35 38	198 121 133	389 282 304
Butter	1919 1914 1909	57 58 68	212 115 62	1,264 669 854	241 93 46	9,997 1,464 891	11,122 1,740 1,029	Printing and publishing	1919 1914 1909	318 351 330	660 752 788	1,278 1,212 948	781 547 533	851 455 410	3, 225 2, 220 1, 910
Cars and general shop construc- tion and repairs by steam- railroad companies.	1919 1914 1909	21 7 5	1,539 871 463	720 718 332	2,016 746 340	941 412 300	3, 183 1, 235 680	Saddlery and harness	1919 1914 1909	14 10 19	65 88 98	80 57 93	66 63 53	504 274 462	676 422 683
Confectionery and ice cream	1919 1914	20 6	107 109	172 90	79 52	440 322	757 474	All other industries	1919 1914	76 63	341 188	1,626 741	432 109	2,590 230	3, 384 476
Copper, tin, and sheet-iron work.	1919 1914 1909	16 9 8	55 65 63	81 72 36	60 51 41	217 207 127	411 321 258	CITY.	1909	111	377	853	207	637	1,219
Flour-mill and gristmill products.	1919 1914 1909	87 59 84	568 424	9,664 7,810 8,907	679 330	26, 223 10, 072 10, 055	29, 282 12, 030 11, 685	FARGO	1919 1914 1909	101 76 61	723 690 510	1,627 1,275 789	861 447 325	4,348 1,741 1,410	6,771 3,006 2,477
Foundry and machine-shop products.1	1919 1914	24 17	85 76	274 184	117 61	140 82	376 216	GRAND FORES	1919 1914 1909	47 32 38	501 343 350	1,175 913 773	530 288 218	5,318 993 1,251	6,779 1,816 1,910

¹ Includes "iron and steel, welding."

FARGO. GRAND FORKS. MINOT.

MANUFACTURES—NORTH DAKOTA.

TABLE 25.—DETAILED STATEMENT OF ALL INDUSTRIES

					PERSO	NS ENC	AGED	IN THE	INDUST	RY.			E EARN EST REP				
-		nts.			Sala-	Clerk	s, etc.		Wage	earne	ors.		16 and	over.	Und	er 16.	
The second secon	INDUSTRY AND CITY.	Number of establishments.	Total.	Proprietors and firm members.	ried offi- cers, super- in- tend- ents, and man- agers.	Male.	Fo- male.	Average num- ber.	Numbe Maxim mont	um	th day of— Minimum month.	Total.	Male.	Fe- male.	Male.	Fe- male.	Capitat
	THE FT.	ATE-	ALL I	NDUS	TRIE	COY	IBINE	ED AN	D SPE	CIFL	ED INDU	STRIES	• .			·	1,1,1
-	All industries	894	6,148	774	380	325	197	4,472	Oc 4,	850	Mh 3,989	(a)	(3)	(°)	(3)	(3)	Dollars 24,549,8
	Artificial stone products. Automobile bodies and parts. Automobile repairing. Bread and other bakery products. Brick and terra-cotta products. Butter. Carriages and wagons, including repairs. Cars and general shop construction and repairs by steam-railroad companies. Condensed milk. Confectionery and ice cream. Confectionery and ice cream. Copper, tin, and sheet-iron work. Flour-milland gristmill products. Foundry and machine-shop products. Foundry and machine-shop products. Fur goods. Gas, illuminating and heating. Lumber, planing-mill products, not including planing mills connected with saw-mills.	5 139 68 5 57 3 21 20 6 14 14 18 20 3 4 10	36 18 500 359 152 316 7 1,617 8 157 96 61 87 748 118 127 69 9	9 4 159 78 3 31 4 18 6 12 15 53 22 4	2 20 10 6 31 53 2 16 8 8 6 73 9	10 20 1 37 17 11 13 12 1 19 9 42 3 14 2	8 9 2 35 8 2 3 3 3 1 12 3 1 3 1 1 3	23 12 303 242 140 212 3 1,539 3 107 67 40 55 563 81 22 43 44 48	Se Jy Jy Ly	30 51 7 57	Ja 2 Ja 10 Ja 203 Mh 206 Dc 88 Ja 131 Ja 2 Je 1,418 Ja 57 Ja 25 Ja 37 Jy 538 Ja 59 Ap 17 Fe 4 40	36 15 293 227 114 184 3 1,540 6 133 81 52 54 582 79 24 43 6 6 52	36 15 291 163 102 166 3 1,521 6 58 28 28 54 57 79 8 43 6 52	2 91 1 17 19 77 53 24 3	11		33, 92 27, 22 1, 723, 93 843, 2; 17, 5; 1, 621, 117, 44 2, 839, 5; 96, 07 596, 84 205, 33 319, 6; 7, 745, 74 301, 1; 705, 9; 8, 1, 105, 9; 8, 1, 105, 9; 8, 1, 105, 9; 8, 1, 105, 9; 8, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
-	Marble and stone work, monuments and tombstones. Mineral and carbonated waters. Printing and publishing, book and Job. Printing and publishing, newspapers and	12 22 17 301	65 149 1,040	11 17 17 253	8 12 84	11 7 10 75	3 2 7 71	33 31 103 557	Je Jy De	39 43 115	Oc 29 Ja 23 Ja 94	34 114 595	29 34 85 460	1 23 101	6 28	6	251,18 309,2 435,58 2,739,60
	periodicals. Printing and publishing. Printing, publishing, and job printing. Printing, publishing, and job printing. Publishing without printing. Saddlery and harness Tobacco, cigars. All other industries *.	9 276 16	136 861 43 96 31 386	230 19 13 18 33	16 59 9 8 1	16 55 4 7	25 40 6 3	75 477 5 65 12 266	(*) De (*) Fe 4 Au	5 76	(5) 75 Fe 454 (6) 5 Se 58 Ja 1 10	74 516 5 67 15	64 392 4 67 14	2 98 1	8 20	6	388,1 2,308,0 43,3 634,0 40,3 2,423,7
1	icultural implements 1 and nings, tents, and sails 1 pan riage and wagon materials 1 Coffee	l repair iles e, roast	eneral s s by ele	etric-ra grindi	ilroad ng	com-	2 Ele 1 s	uggists' ectrical supplies	prepara machine	tions ry, a	n teeth pparatus, a	nd 1	Frease Lubric	and tating g	tallow, reases.	not	terincludin

¹ Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).

² Electric motors operated by rented (or purchased) current.

COMBINED AND SPECIFIED INDUSTRIES: 1919.

			EXP	enses.			Į.					P	ower.			
Sala	ries and w	ages.		Rent an	d taxes.	For mat	erials.			amena in National conditions	Prin	ary hor	sepowe	r.		Elec
ŀ								Value of	Value added by manu-			Own	ed.			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.	products.	facture.	Total.	Steam engines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Water pow- er.1	Rent- ed. ²	generated in estab- lish- ments report- ing.
			ТІ	IE STA	re—ali	, INDUSTR	ies come	SINED AND	SPECIFIE	D INDU	STRIE	s.				
Dollars. 858,097	Dollars. 575, 940	Dollars, 5, 401, 330	Dollars, 118, 159	Dollars. 176, 291	Dollars. 477,948	Dollars. 43, 477, 254	Dollars. 1, 012, 245	Dollars. 57, 373, 622	Dollars. 12, 884, 123	17,791	9, 589	471	1,981	260	5, 490	1, 283
3, 484 900 27, 156 23, 480 12, 650 92, 620	15, 524 33, 288 5, 617 87, 543 28, 664	21, 475 22, 945 367, 920 222, 629 156, 566 241, 340 5, 986 2, 015, 973	1, 173 3, 602 2, 133 15, 189	75 1,570 23,907 22,507 10,675 7,567 990	396 246 18, 161 14, 834 6, 448 58, 691 87 53, 204	35,609 26,054 505,501 1,167,647 21,513 9,936,669 4,402 789,940	819 1,689 40,420 45,089 59,707 60,001 461 151,269	85, 147 62, 928 1, 231, 981 1, 949, 673 308, 550 11, 121, 687 20, 751 3, 182, 706	48,719 35,185 686,060 736,937 227,330 1,125,017 15,888 2,241,497	17 26 767 328 901 1,264 11 720	600 347 522	300	323 10 1 95 8	10	15 26 444 303 792 3 198	21 5 350
2, 240 24, 684 15, 284 9, 400 14, 832 152, 756 14, 141 17, 279	2, 296 37, 259 35, 259 2, 000 14, 922 62, 819 5, 937 1, 080 15, 019	5, 398 78, 904 46, 287 32, 617 59, 936 679, 496 111, 355 22, 092 60, 076 5, 200 39, 748	184 845	2,112 4,508 3,113 1,395 1,034 1,245 3,792 480 1,342 1,695 1,252	273 44,342 40,144 4,198 4,728 173,707 3,151 1,069 13,688 337 2,675	33, 206 428, 647 178, 963 249, 684 213, 595 25, 901, 190 122, 977 21, 800 7, 373 4, 586 83, 432	1,126 11,716 4,774 6,942 3,478 321,905 10,715 630 147,836 1,679 6,780	48, 152 757, 057 394, 662 362, 395 411, 278 29, 282, 056 354, 612 58, 55 384, 467 21, 250 197, 773	13, 820 316, 694 210, 925 105, 769 194, 205 3, 058, 961 220, 920 36, 126 222, 258 14, 994 107, 561	630 172 63 109 81 9,664 261 6 66 13 423	42 42 7,407 56	85	39 12 1,062 19	250	630 91 21 70 69 860 242 6	28 28 688
5,600	32,700	48,413	10,000	4.59	1,763	299, 513	3,647	496,038	192, 878	71	 	ļ	2		69	
14,349 31,709 183,097	12,381 18,450 148,837	33, 977 106, 814 674, 011	302 6,811 74,692	5, 284 12, 030 59, 073	15, 890 3, 072 25, 846	192,690 204,655 564,201	5,538 12,580 69,715	388,777 539,158 2,685,869	190, 549 321, 923 2, 051, 953	76 144 1,134	7	5	8 2 347		68 142 775	38
36, 338 124, 597 22, 162 15, 500 1, 200 59, 867	36,577 106,885 5,375 11,280 38,784	119,841 547,874 6,296 65,999 14,112 340,965	600 14,700 59,392 503 2,725	4, 164 53, 149 1, 760 3, 066 1, 023 10, 605	2,912 22,838 96 7,297 9,597 18,446	90, 766 458, 855 14, 580 499, 478 34, 933 2, 377, 643	8,958 60,733 24 4,640 975 49,839	421, 385 2, 075, 014 189, 470 676, 300 72, 284 3, 036, 572	321, 661 1, 555, 426 174, 866 172, 182 36, 376 609, 090	159 975 80 936	608	41	342 14		144 631 80 273	38 2 150
eweiry eather ta	nned, curred and spring sition oil.	ied, and fi	nished 2	Optical Patent Perfum Photo-e Pickles	goods medicines ery and c ongraving preserve	osmeticss, and sauces	2 2 1 1 2	Signs, electrical Signs, electrical Signs, electrical Smelting an ore		fied	the 1	Upholst Windm Wooder	and va tering n ills 1 goods,	lises aterial not els	sewhere	specifie
			CI	TIES O	F 10,000	TO 50,000 I	NHABITA	NTS-ALL	INDUSTRII	ES COM	BINED.	· T		ı		11 .
208, 232 113, 478	178,370 119,995 31,111	861, 241 529, 516 382, 836	52, 999 2, 825 6, 300	48, 527 23, 248 13, 351	58, 070 77, 131 43, 502	4, 160, 966 5, 239, 385 4, 592, 840	186, 873 78, 935 53, 190	6,770,575 6,779,123 5,561,236	2, 422, 736 1, 460, 803 915, 206	1,627 1,175 962	103 579 735	644	20	10	1,488 596 179	128 76

No figures given for reasons stated under "Explanation of terms."

4 Same number reported for one or more other months.

5 Same number reported throughout the year.

94669°---22-----72

GENERAL STATISTICS.

General character of the state.—Ohio has a gross area of 41,040 square miles, of which 40,740 represent land surface. The inhabitants of the state in 1900 numbered 4,157,545; in 1910, 4,767,121; and in 1920, 5,759,394. In total population Ohio ranked fourth among the states in 1920. The number of inhabitants per square mile in 1910 was 117, the corresponding figure for 1920 being 141.4.

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In 1920 there were 50 cities in the state having more than 10,000 inhabitants, for 48 of which manufacturing statistics are shown. Statistics for Cleveland Heights and East Youngstown can not be shown without the possibility of disclosing the operations of individual establishments. The combined population of these 48 cities in that year was 3,137,372, which formed 54.5 per cent of the total population for Ohio; and in 1919, 79.6 per cent of the state's manufactured products were reported from these cities.

Importance and growth of manufactures (Table 1).— The large increases in salaries and wages, cost of materials, and value of products, as presented in Table 1, are largely due to the changes in industrial conditions brought about by the World War, and, therefore, can not properly be used to measure the growth of manufactures during the census period 1914 to 1919. The increases shown, however, in number of wage earners and horsepower are indicative of a decided growth in the manufacturing activities of the state. The addition of the Federal income tax since 1914 will account for the exceptional increase in "Rent and taxes."

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of the totals for the 88 counties in 1919 with those of prior censuses.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is not always satisfactory as indicating their importance from a manufacturing standpoint. Their ranking in many instances would change materially if based upon the average number of wage earners or value added by manufacture.

Persons engaged in manufacturing industries (Table 4).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 46.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table

are those which employed more than 2,000 wage earners in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more (Table 6).—Each of the 48 cities for which comparative figures are presented in this table shows an increase in value of products from 1914 to 1919. Increases in the total number of wage earners are also shown for all such cities, except Bellaire, East Cleveland, East Liverpool, Findlay, Marietta, Newark, Steubenville, Warren, and Zanesville.

Wage earners, by months (Table 7).—The statistics for wage earners in this table are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the several census years.

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months, similar data are given for males and females for all industries combined, and also for each of the 48 cities. The table also shows a number of industries in the state in 1919 which employed a large number of female wage earners. Of the total number of female wage earners in the state, 85.4 per cent were in the 48 cities, while of the male wage earners only 77.9 per cent were reported by the cities.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working day in Ohio. In that year 13.7 per cent of the wage earners were included in the group "48 and under" as against 40.5 per cent in 1919. In 1914, the "60" and "Over 60" groups constituted 23.3 per cent of the total wage earners as compared with 12.4 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 91.6 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 23.5 per cent of the total number of wage earners. On the other hand, the establishments employing an average of more than 100 wage earners represented only 8.4 per cent of the total number of manufacturing establishments in the state, but reported 76.5 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—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 for all items for 1909, and for the average number of wage earners and value added by manufacture for 1914.

Size of establishments, by value of products, for selected industries (Table 12).—In the preparation of this table it was necessary in several instances to combine the establishments of one group of the industry with those of some other group of that industry to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for cities of 10,000 inhabitants or more (Table 13).—This table strikingly illustrates the fact that the number of establishments of itself is no real index of manufacturing activities.

Character of ownership (Table 14).—The preponderance of corporate ownership is clearly brought out in this table. Corporations owned 42 per cent of the manufacturing establishments in the state in 1919, and reported 92.9 per cent of the average number of wage earners and 93.9 per cent of the total value of products. During the five-year period 1914 to 1919 the average number of wage earners in corporations increased 229,605, or 51.1 per cent, and the value of products \$3,188,836,309, or 199.1 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the combined number of establishments in the 48 cities in 1919 represented 65.3 per cent of the total for the state. They reported in that year 79 per cent of the average number of wage earners and 79.6

per cent of the value of products. These proportions do not differ materially from those of 1914.

Principal industries in the nine cities of 50,000 inhabitants or more in 1920, with per cent of total for state (Table 16).—This table shows for Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, and Youngstown industries of most importance for which figures can be shown without disclosing the operations of individual establishments. The names of a number of important industries are also given for which figures can not be shown without the possibility of disclosing the operations of individual establishments.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 904,417 horsepower, or 45.4 per cent. This increase is due chiefly to the gain of 676,887, or 240.9 per cent, in the use of rented electric power. Of the total horsepower in 1914, 85.9 per cent represented owned power and 14.1 per cent rented. The corresponding proportions for 1919 were 66.9 per cent and 33.1 per cent, respectively.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel, and by manufacturing enterprises in the 48 cities having 10,000 inhabitants or more. In 1919 four industries combined—coke, not including gashouse coke; iron and steel, steel works and rolling mills; brick and tile, terra-cotta, and fire-clay products; and rubber tires, tubes, and rubber goods, not elsewhere specified—consumed 61.7 per cent of the bituminous coal, using more than a million tons each. Iron and steel blast furnaces consumed 89.6 per cent of the coke. The statistics indicate the diminishing use of gas as fuel for manufacturing in Ohio.

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

									
	100	MANUI	ACTURING INDU	STRIES.	. *	PE	R CENT OF	INCREASE	.1
Bound of the second of the sec	1919	1914	1909	1904	1899	1914- 1919	1909- 1914	1904~ 1909	1899- 1904
Number of establishments	16, 125	15,658	15, 138	13, 785	13, 868	3.0	3.4	9.8	0, 6
Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number).	882, 918 12, 823 139, 362 730, 733	606, 807 13, 624 82, 748 510, 435	523, 004 14, 719 61, 351 446, 934	417, 946 13, 657 39, 901 364, 298	(2) (2) 28, 109 308, 109	45. 5 5. 9 68. 4 43. 2	16. 0 -7. 4 34. 9 14. 2	25. 1 7. 8 53. 4 22, 7	42,3 18,2
Primary horsepower	2, 897, 497 \$3, 745, 743, 996	1,993,080 \$1,677,551,633	1, 583, 155 \$1, 300, 732, 732	1, 116, 932 \$856, 988, 830	783, 665 \$570, 908, 968	44. 7 123. 5	26. 5 29. 0	41.7 51.8	42.5 50.1
Salaries and wages Salaries. Wages	1, 218, 366, 093 273, 714, 359 944, 651, 734	423, 188, 649 105, 264, 836 317, 923, 813	317, 597, 403 72, 147, 499 245, 449, 904	225, 864, 293 43, 434, 868 182, 429, 425	164, 579, 020 28, 151, 441 136, 427, 579	187. 2 160. 0 197. 1	33. 6 45. 9 29. 5	40, 6 66, 1 34, 5	37. 2 54. 3 33. 7
Paid for contract work. Rent and taxes. Cost of materials. Value of products. Value added by manufacture	17, 609, 025 195, 393, 167 2, 911, 947, 871 5, 100, 308, 728 2, 188, 360, 857	5, 437, 438 37, 433, 863 1, 029, 782, 015 1, 782, 808, 279 762, 026, 264	6, 717, 474 29, 413, 298 824, 201, 947 1, 437, 935, 817 613, 733, 870	5, 377, 027 2 8, 016, 126 527, 636, 585 960, 811, 857 433, 175, 272	(1) (2) 409, 302, 501 748, 670, 855 339, 368, 354	223. 8 422. 0 185. 3 186. 1 187. 2	-19.1 27.3 23.8 24.0 24.2	24.9 56.2 49.7 41.7	28.9 28.3 27.6

¹ A minus sign (-) denotes decrease.

Figures not available.

^{*} Exclusive of internal revenue.

⁴ Value of products less cost of materials.

TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919.

HARANA (HARANA) <u>A TARANA ANDA ANDA SAMARANA ANDA ANDA ANDA ANDA</u> PARTO (HARANA KANDA KANDA (HARANA ANDA ANDA ANDA ANDA ANDA ANDA ANDA	Number	WAGE	EARNERS.				Volps addad	Def
COUNTY	estab- lish- ments.	Average number.	Wages.	Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse- power.
The state	16,125	730,733	\$944,651,734	\$195,393,167	\$ 2,911,947,871	\$5,100,308,728	\$2,188,360,857	2, 897, 497
Adams Allen Ashland Ashtabula Athens	64 190 70 145 65	326 7,621 1,851 5,880 583	218, 875 8, 407, 828 1, 646, 903 7, 642, 792 539, 566	40,184 2,461,062 277,182 1,488,233 91,915	697, 277 28, 588, 357 5, 446, 626 16, 212, 394 2, 723, 929	1,276,750 48,238,716 11,986,871 31,841,290 4,041,343	579, 473 19,650, 359 6,540, 245 15,628, 996 1,317,414	1, 985 20, 814 4, 100 14, 641 3, 176
Auglaize Belmont Brown Butler Carroll	87 189 48 224 38	2,228 5,643 322 15,518 827	1,807,995 7,256,992 218,229 19,533,588 931,043	343,938 974,467 37,009 11,379,910 65,039	5,815,664 23,925,038 1,059,830 62,603,049 1,586,706	10,041,459 37,193,142 1,591,791 115,174,575 3,271,562	4,225,795 13,178,104 531,961 52,571,526 1,684,856	6, 442 30, 245 1, 205 90, 520 3, 965
Champaign Clark Clermont Clinton Columbiana	68 238 61 71 215	931 12,813 961 538 12,663	1,020,397 13,923,412 676,870 550,634 15,537,697	135,864 2,297,962 245,351 32,114 1,498,751	4, 681, 918 36, 394, 482 2, 720, 761 1, 125, 470 28, 104, 257	7, 156, 056 71, 839, 890 4, 474, 226 2, 432, 463 61, 100, 183	2,474,138 35,445,408 1,753,465 1,306,993 32,995,926	3, 31; 23, 23; 2, 21; 2, 12; 34, 44;
Coshoeton Crawford Cuyahoga Darke Deflance	64	2,510 3,626 167,630 495 1,354	2,233,692 4,394,876 225,601,354 381,009 1,423,567	266, 835 291, 414 49, 380, 487 82, 345 183, 660	4,760,947 7,944,045 649,933,368 2,163,968 3,280,928	9,754,782 16,425,704 1,158,921,941 3,016,935 6,009,876	4,987,835 8,481,659 508,988,573 852,967 2,788,948	7, 200 9, 060 507, 700 1, 790 4, 396
Delaware Erie. Fairfield Fayette Franklin	70	892 4,448 3,111 435 31,573	706, 879 4, 703, 544 3, 189, 723 331, 465 37, 446, 748	64,019 944,892 506,746 150,561 6,961,986	2,015,104 13,233,658 9,404,597 2,312,097 125,465,722	4,087,530 23,720,637 16,203,250 3,559,719 208,347,572	2,072,426 10,486,979 6,798,683 1,247,622 82,881,850	3, 200 23, 310 7, 000 1, 473 88, 411
Fulton Gallia: Geauga Greene Guernsey	46 32 23 64 68	564 134 112 1,246 2,477	569, 966 88, 822 99, 404 1, 071, 117 3, 645, 575	95, 338 8, 261 110, 539 128, 439 214, 289	5, 399, 008 733, 465 472, 193 5, 864, 039 6, 800, 667	7,365,405 965,521 741,222 8,415,359 13,065,344	1,966,397 232,056 269,029 2,551,339 6,264,677	1,956 966 73 5,856 6,36
Hamilton Hancock Hardin Harrison Henry	2,466 106 81	88, 912 2, 116 1, 041 116 288	89, 622, 629 2, 116, 555 1, 088, 719 125, 075 219, 359	27, 166, 595 319, 040 129, 408 7, 002 37, 520	424, 443, 583 7, 773, 203 2, 455, 605 570, 302 907, 772	688, 530, 229 11, 911, 268 4, 867, 243 896, 294 1, 432, 852	264,086,646 4,138,062 2,411,638 325,992 525,080	185, 50 6, 70 6, 49 1, 10 1, 59
Highland Hocking Holmes Furon	92 42 47 104 65	953 1,032 265 1,846 1,604	734, 478 1, 146, 769 262, 967 2, 121, 050 1, 757, 259	213, 477 45, 425 29, 733 152, 577 289, 110	3, 538, 825 1, 487, 175 858, 667 4, 251, 288 4, 536, 318	6.096.384	2,557,559 1,873,820 582,240 4,180,933 3,006,265	4,63 4,98 1,66 7,50
Jefferson Knox Lake Lawrence Lawrence	104 56 50 67 118	7,054 1,877 2,183 2,587 5,550	12, 232, 974 2, 478, 317 3, 325, 931 3, 105, 744 5, 712, 763	4, 009, 740 349, 586 860, 741 648, 595 518, 669		61 702 420	24,049,821 4,068,642 9,020,761 6,808,070 10,426,111	97,83 4,48 12,55 24,26 12,86
Logan. Lorain Lucas Madison Mahoning	86 183 714 35 333	1, 139 17, 352 44, 713 218 32, 967	1, 402, 370 30, 209, 276 56, 909, 816 186, 945 62, 608, 687	79,937 5,851,759 10,946,699 23,689 7,401,472	3, 388, 169 79, 190, 393 179, 424, 363 1, 227, 739 223, 863, 994	5,693,910 148,134,011 305,091,520 1,771,191 344,207,078	2,305,741 68,943,618 125,667,157 543,452 120,343,084	3, 81 168, 31 101, 79 98 493, 47
Marion Medina	98 53 40 72	4, 395 1, 678 656 1, 241 5, 060	5, 128, 980 1, 956, 871 842, 517 1, 068, 220 4, 958, 307	895, 067 495, 204 33, 941 113, 484 1, 067, 407	11, 578, 948 4, 553, 627 913, 354 3, 763, 552 17, 250, 032		2,995,163 14,118,095	11, 75 11, 14 3, 18 2, 83 12, 19
Monroe Montgomery Morgan Morrow Muskingum Noble	52 670 28 25 162	137 33,085 270 218 6,295	89, 999 41, 844, 580 217, 287 217, 267 6, 823, 034	4/4,/00	573, 095 85, 140, 401 829, 255 873, 814 19, 631, 589	1,673,607 1,407,441 33,553,813	844, 352 533, 627 13, 922, 224	70,66 1,21 97 16,53
Pickaway	. 53	1,272 178 1,457 554	63,115 1,547,334 266,313 1,551,281 367,079	100, 743 52, 814		3,856,168 2,662,643	3, 223, 851 796, 999 2, 212, 243 952, 165	76 14, 46 1, 60 5, 31 4, 02
Pike	22 97 72 76 191	3,052 291 529 7,319	35, 376 3, 667, 454 209, 125 475, 456 8, 943, 809][2,211,821	428, 306 8, 646, 115 534, 566 1, 964, 981 26, 275, 253 4, 769, 464	538, 527 17, 414, 954 800, 517 3, 116, 195 47, 628, 663 8, 277, 376		11, 91 2, 71 3, 30 20, 19 5, 72
Ross Sandusky Scioto Squera	58 100 92 178 65	1,718 4,076 9,096 3,837 2,300	1, 882, 786 4, 155, 577 11, 327, 501 4, 121, 052 2, 016, 021 47, 876, 368	497,632 5 547 400	9, 723, 224 9, 723, 224 26, 917, 991 14, 630, 337 5, 230, 870 113, 639, 983	19,671,461 50,398,501 24,532,788 10,178,402 222,309,894	9,948,237 23,480,510 9,902,451 4,947,532 108,669,911	11, 39 37, 09 15, 21 4, 15
Stark	405 254 218 41	34, 182 71, 050 15, 168 7, 751 439	47, 876, 368 102, 708, 324 25, 122, 447 10, 548, 477 361, 113 600, 725	26, 304, 107 3, 269, 016 832, 112 31, 912 74, 553	333, 933, 524 78, 531, 337 22, 450, 994 3, 774, 806	595, 108, 643 124, 743, 657 39, 197, 409 4, 427, 836	261,175,119 46,212,320 16,737,415 653,030 1,265,705	211,77 125,59 30,03 1,42 4,25
Van Wert. Vinton	18 71 105	586 137 1,994 2,174 1,910	161, 561 1, 882, 464 2, 108, 587 2, 284, 439	8,789 461,155 485,997 286,190	143, 142 5, 890, 381 5, 912, 766 8, 419, 871	2,827,422 527,627 10,993,914 11,225,910 13,987,355 4,667,462 18,423,158	5, 313, 144	1,00 9,13 7,00 8,13
Wayne Williams Wood Wyandot.	77 82 54	2, 146 506	714, 029 2, 743, 019 525, 600	40,075 669,363 23,142	12, 179, 569	18, 423, 158 2, 386, 698	1,592,324 6,243,589 1,004,787	2,2 29,4 2,3

MANUFACTURES—OHIO.

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

of ents.	WA EARN	GE ERS.	VALUE PRODUC		VALUE A BY MA FACTU	NU-		of nts.	WA EARN		VALUE		VÁLUE A BY MA PACTU	NU-
Number of establishments.	Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	INDUSTRY	Number of establishments.	Average number,	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries16, 12	730, 73	100. 0	\$5, 100, 309	100. 0	\$2, 188, 361	100.0	Tinware, not elsewhere speci- fied	14	2 608	0.4	\$ 16, 981	0.3	88 000	
Iron and steel, steel works and rolling mills. 86 Rubber tires, tubes, and rub-	73,025	10.0	626, 370	12, 3	245,310	11.2	Hardware. Screws, machine. Copper, tin, and sheet-iron	50 19	2,608 4,576 4,226	0.6	16, 694 16, 599	0.3	\$6,293 9,172 11,291	0.3 0.4 0.5
ber goods, not elsewhere specified. 96 Foundry and machine-shop products 1,000	63,637	8.7	551,118	10.8	251,756	11.5	Stamped and enameled ware,	262	2,650	0.4	15, 809	0.3	7,320	0.3
products	72,227	9.9 4.0	347,635	6.8 5.6	200, 337 88, 607	9.2 4.0	not elsewhere specified	49	3,834	0.5	15, 466	0.3	8,094	0.4
Iron and steel, blast furnaces 42 Slaughtering and meat packing 141		1.3	347,635 287,046 179,233 170,338	3. 5 3. 3	41,547 19,739	1.9	Steel barrels, drums, and tanks, portable.	22 13	1,755 1,581	0.2	15, 368 14, 553	0.3	7,358 4,850	0.3
Electrical machinery, appa- i	26,672	3.7	156, 924	3.1	84,627	3.9	not elsewhere specified Paper goods, not elsewhere specified Steel barrels, drums, and tanks, portable. Fertilizers. Varnishes. Roofing materials. Bags, paper, exclusive of those made in paper mills. Lumber and timber products. Steam fittines and steam and	23 33	1, 197 732	0.2 0.1	14, 042 13, 629 12, 785	0.3	5,971 4,920	0.2 0.3 0.2 0.2
ratus, and supplies 189 Cars and general shop construction and repairs by steam-railroad companies 117	35, 245	4.8	96,484	1.9	56,894	2.6	Bags, paper, exclusive of those made in paper mills	20	1,138	0.2	H .	0.3	4,876 3,470	1
Flour-mill and gristmill prod-	16,670	2, 3	96,484 92,391	1.8	39,849	1.8		514	3, 135	0.4	12,610 12,031	0.2	6,836	0.2
Bread and other bakery prod- ucts. 1,621	2, 122 9, 091	1.2	89,397 78,819	1.8 1.6	12,295 28,863	0.6 1.3	hot-water heating apparatus. Aluminum manufactures. Motorcycles, bicycles, and	29 20	2,723 1,840	0.4	11, 852 11, 132	0. 2 0. 2	7,903 4,460	0.4
rubber boots and shoes 60	14,092 13,855	1.9	71,355 62,554	1. 4 1. 2	30, 552	1.4	Parts Patent medicines and com-	9	2,480	0.3	10, 874	0.2	5,744	0.3
Printing and publishing, news- papers and periodicals 794	7,627	1,9	1	1. 2	45,077 40,125	2.1 1.8	pounds Pickles, preserves, and sauces Automobile repairing	202 37 540	889 1,375 2,430	$0.1 \\ 0.2 \\ 0.3$	10, 861 10, 451 10, 245	0, 2 0, 2 0, 2	6,514 3,349	0.3 0.2 0.3
Shipbuilding, steel, new vessels	9,939	1.4	58,567 58,169	1.1	28,099	1.3		141	2,430 1,952	0.3	10,208	0.2	5,751 7,310	0.3
and repair work. 9 Paper and wood pulp 49 Clothing, women's 175 Coke, not including gas-house	6,899 8,258	0.9	56,482 55,098 48,704	1.1 1.1 1.0	33,128 19,388 22,627	1,5 0.9 1.0	Boxes, paper and other, not elsewhere specified Coul-tar products. Safes and vaults Oils, linseed Lithographing Oil, not elsewhere specified.	58 15 18 3	2,952 834 1,821 270	0.4 0.1 0.2 (1)	10,030 9,495 9,478 9,369	0. 2 0. 2 0. 2 0. 2	5, 225 4, 105 6, 038	0.2 0.2 0.3
Food preparations, not else-	3, 407	0.5	46,514	0.9	13,342	0.6	Lithographing. Oil, not elsewhere specified	28 21	1,939	0.3	9, 151 8, 986	0.2	1,608 5,607 2,440	0.1 0.3 0.1
Petroleum, refining 11	1,857 2,431 6,218	0.3 0.3 0.9	46,340 43,283 42,851	0.9 0.9 0.8	8,926 11,325 22,507	0.4 0.5 1.0	Boxes, wooden packing, ex- cept cigar boxes. Wirework, including wire rope and cable, not elsewhere	98	1,874	0.3	8, 937	0.2	3,584	0,2
Structural ironwork, not made in steel works or rolling mills. 93	5, 231 1, 362	0.7	41.793	0.8	17 022	0.8	Specified	47	1,822	0.2	8,710	0.2	4, 375	0.2
Iron and steel forgings, not made in steel works or rolling	1	a .	41,062	0.8	6,335	0.3	Plumbers' supplies, not else- where specified Signs and advertising novelties	48 70	1,897 1,907	0.3	8,083 7,904	0.2 0.2	4,398 4,737	0.2 0.2
mills 38 Printing and publishing, book and job 871	5, 931 8 505	1.2	39,563	0.8	20,877	1.0 1.1	Gloves and mittens, cloth, not including gloves made in textile mills. Pumps, not including power pumps. Shirts. Sugar, beet. Marble and stone work, except slate.	35	2,162	0.3				4.2
Iron and steel, wrought pipe. 8	8,505 5,451 4,434 2,197	0.7	39,202 39,185 37,968	0.8	24,020 17,363 14,238 13,251 22,588 20,645 17,428	0.8 0.6	Pumps, not including power pumps	20	1,265 1,900	0.3	7,568 7,393	0.2	2,659 4,626	0.1
Paints 61 Glass 44 Furniture 162	H10. 935 I	0.3 1.5 1.1	36,848 35,241 35,224 32,719 32,527	0.7 0.7 0.7	13,251 22,588 20,645	0.6 1.0 0.9	Sugar, beet	32	1,900 630	0.3	7,390 7,249	0.1 0.1	3,631 2,141	0.2
Chemicals 37 Tools not elsewhere specified 149	8,346 3,670 6,961	0.5 1.0	32,719 32,527	0.6 0.6	17,424 21,792	0.8 1.0	Lamps and reflectors.	191 14	1,504 1,095	0.2 0.1	7,202 7,187	0.1 0.1	4,684 3,017	0, 2 0, 1
Lumber planing mill products, not including planing mills connected with sawmills 378	4, 495	0.6	32,429	0.6	12,077	0,6	Awnings, tents, and sails Minerals and earths, ground or otherwise treated	41	851 1,960	0.1	6,937 6,861	0.1 •0.1	3,202	0.1
fire-clay products	12,060	1.6	32, 173	0.6	22, 212	1.0	Canning and preserving, fruits and vegetables	87	1,576	0.2	6,838	0.1	4,642 2,426	0.1
Coffee and spice, roasting and grinding	1, 088 10, 995 11, 339	0.1 1.5	29, 271 28, 854	0.6	6,394 15,739	0.3 0.7	Mineral and soda waters. Flavoring extracts. Coffins, burial cases, and un-	217 44	867 325	0.1 (¹)	6,769 6,596	0.1	3,515 1,796	0, 2 0, 1
Cars, steam-railroad, not in-	11, 339	1.6		0.6	19,663	Ö. 9	Coffins, burial cases, and un- dertakers' goods. Phonographs and grapho-	20	1,148	0.2	6,475	0.1	3, 635	0.2
cluding operations of rail- road companies	2, 177	0.3	28, 146	0.6	6,830	0.3	Carriage and wagon materials	20 33 7	1, 424 1, 219 1, 021	0. 2 0. 2 0. 1	6, 221 5, 932 5, 893	0.1 0.1 0.1	3, 265 2, 670 2, 015	0.1 0.1 0.1
products	4, 264 4, 931 3, 327	0.6 0.7	27,802 26,556 25,161 25,009	0.5	11,624 13,589 18,066	0.5	Envelopes. Grease and tallow, not includ- ing lubricating greases	54	711	0.1	5,639 5,515	0.1	1,846 1,940	0.1
Leather tanned curried and	6,069	0.5 0.8	i i	0. 5 0. 5	18,066 14,212	0.8 0.6	Ink, printing	138	397 1, 192	0.1	5, 515 5, 460	0.1	1,940 3,756	0.1 0.2
finished 24 Sloves, gas and oil 34 Iron and steel, bolts, nuts, washers, and rivets, not	1, 565 4, 329	0.2 0.6	25,008 23,578	0.5 0.5	6, 190 12, 747	0.3 0.6	cluding paper patterns Sausage, not made in slaughtering and meat-packing establishments.							
made in rolling mins 23	4, 778	0.7	23,451	0.5	13, 102	0.6	Carriages and wagons, includ-	30 106	269 799	0.1		0.1	1, 157 2, 106	0.1
Knit goods. 34 Condensed milk. 30	4, 407 711	0.6 0.1	23,451 18,779 17,198	0.4 0.3	13,102 7,700 3,035	0.4 0.1	ing repairs. All other industries 2	119 2,747	994 81,628	0.1 11.2	5,014 554,245	0. 1 10. 9	2,621 239,757	0.1 11.0

Less than one-tenth of 1 per cent.

2 Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: "Bags, other than paper, not including bags made in textile mills"; "cash registers and calculating machines"; "cleomargarine"; "soap"; "springs, steel, automobile"; "tin plate and terneplate"; "to-bacco, chewing and smoking, and snuff"; "wire"; and "woolen goods."

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

	Cen-		26.1	Fe-	PER OF TO	CENT OTAL.		Cen-			Fe-	PER C	
CLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male.	CLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male.
All classes.	1919 1914 1909	882,918 606,807 523,004	739, 167 512, 621 439, 811	143,751 94,186 83,193	83.7 84.5 84.1	16.3 15.5 15.9	Clerks and other subordinate salaried employees.	1919 1914 1909	109,097 63,790 44,857	71,636 46,357 34,101	37, 461 17, 433 10, 756	65.7 72.7 76.0	34. 3 27. 3 24. 0
Proprietors and officials	1919 1914 1909	43,088 32,582 31,213	41,863 31,622 30,341	1,225 960 872	97. 2 97. 1 97. 2	2.8 2.9 2.8	Wage earners (average number).	1919 1914 1909	730, 733 510, 435 446, 934	625,668 434,642 375,369	105,065 75,793 71,565	85. 6 85. 2 84. 0	14. 4 14. 8 16. 0
Proprietors and firm members	1919 1914 1909	12, 823 13, 624 14, 719	12, 292 13, 001 14, 141	531 623 578	95. 9 95. 4 96. 1	4.1 4.6 3.9	16 years of age and over	1919 1914 1909	727, 333 508, 693 441, 690	622,697 433,325 372,694	104,636 75,368 68,996	85. 6 85. 2 84. 4	14. 4 14. 8 15. 6
Salaried officers of corporations.	1919 1914 1909	9,825 7,114 6,371	9,540 6,945 - 6,258	285 169 113	97.1 97.6 98.2	2.9 2.4 1.8	Under 16 years of age	1919 1914 1909	3, 400 1, 742 5, 244	2,971 1,317 2,675	429 425 2,569	87.4 75.6 51.0	12.6 24.4 49.0
Superintendents and managers.	1919 1914 1909	20,440 11,844 10,123	20,031 11,676 9,942	409 168 181	98. 0 98. 6 98. 2	2.0 1.4 1.8	1						

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

		Wage	PER CE	NT OF T	OTAL.			Wage	PER CE	NT OF TO	OTAL
INDUSTRY.	Cen- sus year.	earners (aver- age num-	16 year and	s of age over.	Un- der 16	industry.	Cen- sus year.	earners (aver- age num-	16 year and	s of age	Ur de 16
		ber).	Male.	Fe- male.	years of age.			ber).	Male.	Fe- male.	yea oi age
All industries	1919 1914 1909	730, 733 510, 435 446, 934	85. 2 84. 9 83. 4	14.3 14.8 15.4	0.5 0.3 1.2	Flour-mill and gristmill products	1919 1914	2, 122 2, 363	98.8 99.1	0.9 0.8	0
gricultural implements	1919	4,931 5,464	98. 6 99. 4	1.4 0.4	0.2	Foundry and machine shop products 3	1919 1914	87,808 51,553	97.3 98.9	2.6 1.0	'
utomobile bodies and parts	1919 1914	16,670 4,128	94.0 96.1	5.7 3.9	0.4	Furniture	1919 1914	8,346 7,750	90.7 94.5	8.7 4.4	1
utomobiles	1919 1914	29, 212 14, 624	96.1 98.3	3.9 1.6	0.1	Glass	1919 1914	10, 935 10, 997	83.5 91.6	16.1 7.9	
utomobile repairing	1919 1914	2,430 215	98.3 99.5	1.2 0.5	9.5	Gloves and mittens, cloth, not including gloves made in textile mills.	1919	2,162	12.8	83.2	
oots and shoes, not including rubber boots	1919	14,092	57.7 58.3	41.4 40.8	0.9	Hardware	1919 1914	4,576 4,803	84. 9 90. 9	14.8 8.7	
and shoes. oxes, paper and other, not elsewhere speci-	1914	14,461 2,952 2,456	35. 5 35. 1	63.7 64.5	0.8 0.4	Iron and steel, blast furnaces	1919 1914	9,793 5,786	99. 9 100. 0	0.1 (¹)	
fied. rass. bronze, and copper products	1914	2,450 4,264 2,277	96.5 98.6	3.3 1.4	0.2	Iron and steel, steel works and rolling mills.	1919 1914	73,025 46,397	98.6 99.3	1.3 0.7	
read and other bakery products	1914	9.091	72.4 79.1	26.8 20.5	0.8	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919 1914	4,778 2,365	82.3 88.1	17.0 11.8	۱
rick and tile, terra-cotta, and fire-clay	1914 1919	7,665 12,060	95.5	3.9 3.2	0.4	Iron and steel forgings, not made in steel works or rolling mills.	1919 1914	5,931 2,308	99.6 99.7	0.3	
products.	1914 1919	16, 238 35, 245	96.7 99.2	0.8	0.1	Iron and steel, wrought pipe	1919 1914	4, 434 2, 285	98. 5 100. 0	1.5	-
repairs by steam-railroad companies.	1914	21,639 2,177	99.9	0.1	(1)	Knit goods	1919 1914	4,407 3,411	20. 6 22. 9	78.3 76.4	
ars, steam-railroad, not including opera- tions of railroad companies.	1914 1919	2,885 3,670	99.8 95.0	0.2 4.9	0.1	Liquors, malt	1919 1914	3,327 5,340	99. 2 99. 8	0.8 0.2	
lothing, men's	1914 1919	2,017 9,939	98.3 31.1	1.7 68.5	0.4	Lumber and timber products	1919 1914	3, 135 4, 798	99. 5 99. 2	0.4 0.8	
Slothing, women's	1914 1919	8, 691 8, 258	34.6 31.5	64.7	0.6 0.3 0.1	Lumber, planing-mill products, not in- cluding planing mills connected with saw- mills.	1919 1914	4, 495 5, 516	98.7 99.4	1.2 0.5	
coke, not including gas-house coke	1914	9,775	35.4 85.9 100.0	64.4 0.1	14.0	Motorcycles, bicycles, and parts	1919 1914	2,480 752	88.7 96.0	11.3 4.0	
onfectionery and ice cream 2	1914	5.451	46.2 45.1	52.9 54.2	0.9 0.7	Paints	1919 1914	2,197 1,697	88.9 92.1	11.1 7.9	
opper, tin, and sheet iron work	1914	2,650	94.9 96.2	5.0	0.1	Paper and wood pulp	1919 1914	6,899 5,430	87. 2 87. 7	12.6 11.7	
electrical machinery, apparatus, and sup-	1914	26,672	72.4 77.9	27.5 22.0	0.1	Petroleum, refining	1919 1914	2, 431 1, 519	99. 2 98. 6	0.8 1.4	
plies.	1919	6, 218	99.4	0.6		Potteryd welding"; "machine tools"; and "steel b	1919 1914	11,339 11,096	70. ö 72. 9	29.0 26.5	1

¹ Less than one-tenth of 1 per cent.
2 Includes "chewing gum" in 1914.

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS FOR SELECTED INDUSTRIES, WITH PER CENT, BY SEX AND AGE: 1919 AND 1914—Continued.

		Wage earners		ENT OF T	OTAL.			Wage earners		NT OF T	1
industry.	Sus year.	(aver- age		over.	Un- der 16	INDUSTRY,	cen- sus year.	(aver- age num-	16 year and	s of age over.	Un- der 16
		ber).	Male.	Fe- male.	years of age.			ber).	Male.	Fe- male.	years of age.
Printing and publishing, book and job	1919 1914	8,505 7,978	69.3 73.9	29.9 25.6	0.8 0.5	Stoves and hot-air furnaces	1919 1914	6,009 5,041	97.4 99.5	2.6 0.4	0.1 0.1
Printing and publishing, newspapers and periodicals.	1919 1914	7,627 7,274	81.5 80.8	17.5 17.3	1.0 1.9	Stoves, gas and oil	1919 1914	4,329 3,534	88.1 99.0	11.8 0.4	0.2
Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919 1914	63, 637 21, 705	88. 8 88. 8	9.8 11.1	1.4 0.1	Structural ironwork, not made in steel works or rolling mills.	1919 1914	5, 231 6, 657	99. 8 98. 9	0.2 0.9	0.1
Screws, machine	1919 1914	4, 226 1, 464	82. 4 92. 8	17.6 7.0	0. 2	Tinware, not elsewhere specified	1919 1914	2,608	66. 9 68. 9	33.0 31.1	0.1
Shipbuilding, steel, new vessels and repair work.	1919 1914	11, 192 2, 623	99. 9 99. 9	0.1	0.1	Tobacco, eigars and eigarettes	1914	2, 260 10, 995	22.8	77.0	0.2
Slaughtering and meat packing	1919 1914	5,336 3,480	92. 4 97. 6	7.5 2.3	0.1 0.1		1914	12,025	31.3	68.6	0.1
Stamped and enameled ware, not elsewhere specified.	1919 1914	3, 834 2, 853	75.3 79.4	24.5 20.4	0. 2 0. 3	Tools, not elsewhere specified	1919 1914	6,961 2,227	93.0 92.6	6.6 7.3	(1)
Steam fittings and steam and hot-water heating apparatus.	1919 1914	2,723 2,414	97.3 99.7	2.6	0. 1 0. 3	All other industries	1919 1914	133, 456 117, 753	78. 2 79. 4	21.2 19.9	0.6 0.7

¹ Less than one-tenth of 1 per cent.

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

2-12-2			10,000	INHAI	BITAN'	rs or	MORI	S: 1919	, 1914,	, AN) 190	9.			
		AVE	RAGE NUI	MBER OF	WAGE EA	RNERS IN	MANUE	ACTURIN	G INDUS	TRIES.					
					16 yea	rs of age	and over	•		TTmd	er 16 v		VAL	UE OF PRODUC	TS.
CITY.		Total.			Male.			Female.		Onu	ofage				
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Akron	65, 054 5, 117 4, 172 4, 762 2, 277	24, 680 2, 333 1, 868 3, 118 2, 603	15, 831 2, 524 1, 471 2, 597	59,094 4,865 3,946 4,336 1,879	21, 825 2, 266 1, 770 2, 696 2, 357	13,387 2,385 1,334 2,301	5, 914 252 225 426 394	2, 802 64 95 421 234	2, 223 131 128 254	46 1 4	53 3 3 1 12	221 8 9 42	\$558, 962, 067 32, 871, 087 23, 098, 509 27, 713, 226 14, 502, 401	\$122, 291, 600 7, 174, 766 5, 020, 991 8, 843, 422 12, 170, 206	\$73, 158, 200 6, 135, 423 3, 458, 612 10, 091, 559
Bucyrus. Cambridge. Canton Chillicothe. Cincinnati.	1, 861 1, 782 20, 336 1, 638 69, 680	1, 455 12, 255 1, 557 59, 861	1,230 9,964 1,674 60,182	1,718 1,652 18,365 1,364 51,354	1, 353 10, 823 1, 239 44, 991	1,174 8,892 1,157 43,889	142 125 1,965 269 18,100	98 1,393 315 14,509	56 955 517 14,949	5 6 5 226	4 39 3 361	117 1,344	8, 435, 746 11, 226, 809 124, 292, 924 7, 667, 182 500, 040, 996	3, 923, 786 43, 713, 446 4, 083, 486 210, 860, 386	4, 290, 560 28, 582, 811 4, 345, 224 192, 515, 692
Cleveland	157, 730 26, 751 1, 959 784 31, 131	103, 317 17, 236 1, 614 24, 061	84, 728 16, 428 21, 549	130, 840 22, 022 1, 253 753 25, 934	85,069 14,269 991 20,222	69,643 13,137 17,876	25,384 4,639 702 22 5,153	17, 756 2, 922 623 3, 812	13, 746 3, 146 3, 572	1, 506 90 4 9 44	492 45 27	1,339 145 101	1, 091, 577, 490 184, 021, 849 7, 684, 762 5, 829, 347 174, 990, 607	352, 418, 052 57, 608, 084 3, 476, 686 71, 071, 374	271, 960, 833 49, 031, 872 60, 378, 376
East Cleveland East Liverpool Elyria Findlay Fremont	88 4, 311 4, 590 1, 715 2, 999	129 4,830 2,735 1,737 2,063	4,878 2,673 1,876	3,037 3,858 1,204 2,369	124 3,566 2,355 1,020 1,682	3,587 2,357 921	20 1, 225 729 488 628	1, 238 376 709 379	1,218 289 454	29 8 23 2	26 4 8 2	68 27 1	420, 505 12, 501, 181 25, 191, 454 7, 924, 282 12, 915, 095	295, 786 7, 092, 903 8, 791, 734 4, 662, 778 4, 779, 982	6, 629, 076 8, 064, 914 3, 486, 793
Hamilton	8, 553 1, 971 135 1, 821 2, 024	6,043 1,420 1,774 1,583	6, 895 1, 920 (1) 1, 532	7,571 1,551 128 1,547 1,571	5, 252 1, 193 1, 555 1, 134	6,047 1,647 (1) 1,118	974 384 7 274 452	775 207 219 449	752 269 412	8 86 1	16 20	96 4 (1) 2	47, 024, 031 14, 071, 850 844, 303 7, 602, 803 11, 478, 883	16, 877, 260 4, 666, 185 3, 606, 498 4, 602, 615	18, 183, 693 7, 118, 259 (1) 4, 074, 00
Lima. Lorain. Mansfield. Marietta. Marion.	4, 901 11, 677 4, 711 1, 285 4, 125	4, 876 6, 436 3, 398 1, 401 2, 577	3, 607 6, 697 3, 204 1, 288 2, 619	3,609 12,565 3,812 1,153 3,637	3,676 6,357 2,663 1,317 2,323	2,474 6,674 2,201 1,181 2,344	1, 233 97 894 129 458	1, 199 77 730 80 248	1,082 20 984 106 272	59 15 5 3 30	1 2 5 4 6	51 3 19 1	23, 638, 764 116, 908, 616 31, 877, 551 5, 917, 469 20, 712, 973	11, 598, 580 29, 110, 037 10, 281, 968 4, 128, 618 6, 384, 864	7, 758, 87 38, 986, 99 8, 172, 91 3, 214, 55 5, 666, 97
Martins Ferry Massillon Middletown Newark New Philadelphia	1, 247	1, 768 4, 003 4, 583	1, 934 2, 576 3, 913	1, 458 1, 941 5, 349 3, 954 1, 105	1,591 3,523 4,132	1,826 1,805 3,576	57 204 1,091 604 134	177 480 440	87 769 286	2 8 2 12 8	11	21 2 51	15, 402, 280 13, 984, 871 62, 838, 289 16, 563, 149 8, 445, 658	5, 293, 124 21, 787, 151 9, 276, 762	4, 787, 77 16, 516, 78 7, 851, 111
Niles Norwood Piqua Portsmouth Salem	2, 945 8, 283 3, 293 5, 914 2, 237	5, 808 2, 777 3, 597	3, 907 2, 683 3, 728	2, 815 6, 802 2, 273 4, 235 2, 138	4,538 1,923 2,441	3,215 1,913 2,237	128 1,480 1,017 1,491 99	1, 269 850 1, 137	684 751 1, 390	2 1 3 188	1 4 19	8 19 101	18, 358, 773 47, 947, 183 19, 921, 345 36, 645, 736 11, 069, 550	16, 724, 360 7, 988, 279 7, 682, 145	9, 684, 33 6, 930, 67 7, 276, 89
Sandusky Springfield Steubenville Tiffin	3, 447 12, 264 3, 855 2, 213	2,727 7,868 4,506 2,177	2,118 7,405 4,267 1,632	2,805 10,420 3,628 1,948	2,403 7,074 4,294 1,775	1,608 6,616 4,045 1,289	632 1,832 208 261	322 786 202 348	466 777 196 278	10 12 19 4	2 8 10 54	44 12 26 65	19, 248, 571 67, 759, 001 30, 903, 344 10, 516, 369	8, 284, 865 27, 721, 789 16, 958, 987 4, 995, 880	5, 946, 85 19, 246, 14 21, 187, 12 3, 254, 32
Toledo	42,090 2,433 19,414 3,014	27, 076 2, 862 15, 861 3, 035	18, 878 1, 798 10, 498 2, 932	35,608 1,808 18,542 2,316	22, 859 2, 347 14, 997 2, 540	15,279 1,190 10,214 2,582	6, 323 620 867 659	4, 115 511 860 492	3,327 547 272 325	159 5 5 39	102 4 4 3	272 61 12 25	293, 520, 900 19, 747, 395 241, 458, 370 13, 437, 777	115, 049, 426 10, 399, 737 92, 111, 272 8, 300, 231	61, 229, 542 5, 988, 174 81, 270, 747 8, 020, 433

¹ Figures can not be shown without disclosing individual operations.

HART-VERNE STARTE TABLE 7. + WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909. He is the started by

MONTH.		NUMBER,1	11 1	PER CEI	NT OF MA	хімим,			NUMBER.1		PER CEN	т ор ма	XIMUM.
	1919	1914	1909	1919	1914	1909	MONTH,	1919	1914	1909	1919	1914	1909
January February March April May June	094, 004	511, 055 524, 663 534, 537 533, 186 523, 653 518, 316	414,278 421,945 432,343 432,828 436,450 444,998	90. 3 88. 4 88. 0 87. 0 87. 1 89. 8	95. 6 98. 2 100. 0 99. 7 98. 0 97. 0	86. 2 87. 8 90. 0 90. 1 90. 8 92. 6	August September October November	740, 188 768, 579 773, 510 740, 570 761, 688 790, 681	506,133 506,991 510,037 501,396 478,412 470,841	435, 241 448, 898 465, 351 474, 448 476, 023 480, 405	93. 6 97. 2 97. 5 93. 8 96. 4 100. 0	94.7 94.8 95.4 93.8 89.5 89.2	90.6 93.4 96.9 95.8 99.1 100.0

¹ The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by bold-faced figures, minimum by italic figures.

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

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

	Aver-	N	UMBER	EMPLOYI	D ON 15	TH DAY	OF THE	MONTH (R NEAR	EST REP	RESENTA	TIVE DAY	r. ,	Per cent
INDUSTRY AND CITY,	num- ber em- ployed during year.	Janu- ary.	Febru- ary	March,	April,	May,	June.	July.	August.	Sep- tember.		Novem- ber.	Decem- ber.	mini- mum is of maxi- mum.
All industries. Males. Females.	730, 733 625, 668 105, 065	714, 195 611, 400 102, 795	698, 911 598, 494 100, 417	694, 564 594, 994 99, 570	688, 040 590, 613 97, 427	687,683 590,210 97,473	610,378	740, 188 637, 165 103, 023	660,714	663,495	740, 570 628, 424 112, 142	646,009	790, 681 676, 120 114, 561	87. 87. 84.
A gricultural implements. Automobile bodies and parts. Automobiles Automobile repairing. Boots and shoes not including rubber boots and	4,931 16,670 29,212 2,430	5, 263 18, 797 28, 464 2, 158	5,344 12,635 28,699 2,194	5, 411 18, 244 29, 575 2, 247	5,032 13,693 30,086 2,326	4,813 15,029 20,274 2,418	4,609 15,318 22,740 2,452	4,406 16,828 28,035 2,524	4,642 17,890 29,594 2,556	4,741 19,001 30,439 2,532	4,765 19,976 32,583 2,798	4,938 20,950 34,124 2,472	5,148 21,679 35,931 2,485	81. 55. 56. 77.
shoes Boxes, paper and other, not elsewhere specified Brass, bronze, and copper products Bread and other bakery products. Brick and tile, terra-cotta, and fire-clay products. Cars and general shom construction and repairs by	14,092 2,952 4,264 9,091 12,060	13,654 2,856 3,716 8,477 9,433	13,846 2,909 3,681 8,507 9,452	13,568 2,907 3,744 8,586 10,163	13,473 2,870 3,843 8,666 11,193	13,805 2,773 3,840 8,778 12,217	14,061 2,745 3,968 8,910 13,014	14,292 2,949 4,338 9,220 13,667	14,449 2,977 4,594 9,299 13,510	14,279 2,930 4,632 9,418 13,817	14,236 3,096 4,843 9,571 13,666	14, 478 3, 233 5, 038 9, 794 12, 817	14,963 3,179 4,933 9,866 11,771	90. 84. 73. 85. 68.
steam-railroad companies. Dars, steam-railroad, not including operations of railroad companies. Dhemicals. Justing men's	35, 245 2, 177 3, 670 9, 939 8, 258 3, 407	34,896 2,494 3,901 8,761	34, 292 2, 213 3, 462 8, 972	33,047 2,242 3,315 9,016	\$2,688 2,134 5,022 8,688	34, 196 1, 952 3, 062 9, 000	34,898 1,847 3,247 9,405	35,451 1,921 3,569 9,924	35,812 1,934 3,762 10,400	36,515 2,091 4,155 10,694	36,914 2,332 4,210 11,167	36,995 2,425 4,138 11,581	37,236 2,539 4,197 11,660	87. 72. 71. 74.
A gricultural implements. A utomobile bodies and parts. A utomobiles A utomobiles A utomobile repairing. B oots and shoes, not including rubber boots and shoes. Brass, bronze, and copper products. Bread and other bakery products. Brick and tile, terra-cotta, and fire-clay products. Barick and tile, terra-cotta, and fire-clay products. Cars and general shop construction and repairs by steam-railroad companies. Cars, steam-railroad, not including operations of railroad companies. Clothing, men's. Clothing, men's. Clothing, women's Coke, not including gas-house coke. Confectionery and ice cream. Copper, tin, and sheet-iron work. Electrical machinery, apparatus, and supplies. Engines, steam, gas, and water. Flour-mill and gristmill products. Foundry and machine-shop products. Foundry and machine-shop products. Gloves and mittens, cloth, not including gloves made in textile mills. Hardware Iron and steel, blast furnaces.	8,258 3,407 5,451 2,650 26,672 6,218 2,122 72,227	7,694 4,257 4,931 2,638 25,360 6,351 2,064 75,538	8,145 3,838 4,913 2,351 25,021 6,041 1,937 70,460	8, 145 3, 647 4, 753 2, 288 25, 262 6, 175 2, 003 69, 652 7, 673	8,214 3,575 4,588 2,364 24,841 5,969 2,067 68,523	7,712 3,242 4,698 2,468 22,900 6,673 2,030 67,290	8,214 3,474 5,023 2,613 23,970 5,988 2,033 67,485	8,821 3,533 5,046 2,671 25,350 6,629 2,022 69,697	9,138 3,555 5,819 2,783 27,478 6,667 2,260 71,668	9,061 3,416 6,361 2,845 28,277 6,231 2,281 72,489	8,389 2,256 6,689 2,891 29,496 6,202 2,243 75,859	7,771 2,961 6,584 2,933 30,558 6,213 2,252 78,068	7,892 3,130 6,007 2,955 31,551 6,477 2,272 79,995	83. 58. 68. 77. 72. 85. 84. 84.
Furniture Glass Gloves and mittens, cloth, not including gloves made in textile mills. Hardware	8,346 10,935 2,162 4,576	7,617 9,851 2,745 4,172 12,137	10,961	11,094	11,517	11, 177	8,045 10,943 1,810 4,528	8,332 9,077 2,026 4,611	8,684 10,239 2,100 4,904	8,741 10,818 2,060 4,455	9,002 11,516 2,147 4,573	9, 247 11, 942 2, 178 4, 588 8, 881	9,541 12,085 2,651 4,532	79. 75. 63. 85.
ron and steel, blast furnaces. Iron and steel, steel works and rolling mills. Iron and steel, bots, nuts, washers, and rivets, not made in rolling mills.	9,793 73,025 4,778	12,137 85,394 5,334	11,086 80,123 4,998	75,342 4,980	9,534 69,910 4,824	9,322 70,438 4,365	9, 465 72, 505 4, 816	9,935 80,007 4,705	10, 163 81, 136 4, 819	10,440 80,241 4,860	8,105 41,747 8,975	8, 881 60, 712 4, 698	78,745 4,962	50. 48. 74.
ron and steel forgings, not made in steel works or rolling mills ron and steel, wrought pipe Knit goods Liquors, malt Lumber and timber products	5,931 4,434 4,407 3,327 3,135	6,563 4,659 3,877 3,221 2,850	6,302 4,493 3,586 3,121 2,881	5,842 4,317 3,688 3,142 3,035	5,737 4,460 3,850 3,204 3,133	5,712 4,444 4,006 3,416 3,054	5, 803 4, 606 4, 263 3, 788 3, 228	5,727 4,793 4,525 3,935 2,904	6,072 4,970 4,879 3,806 3,002	5,701 4,955 4,863 3,474 3,160	5,761 3,415 5,075 3,206 3,399	5, 953 3, 550 5, 123 2, 835 3, 431	5,999 4,546 5,149 2,776 3,543	86. 68. 69. 70. 80.
made in textile mills. Tardware ron and steel, blast furnaces. ron and steel, blots, nuts, washers, and rivets, not made in rolling mills. ron and steel forgings, not made in steel works or rolling mills. ron and steel forgings, not made in steel works or rolling mills. ron and steel, wrought pipe. Knit goods. Liquors, mait Lumber and timber products. Lumber and timber products. Lumber, planing-mill products, not including plan- ing mills connected with sawmills. Motorcycles, bicycles, and parts. Paints. Paper and wood pulp Petroleum, refining. Printing and publishing, hook and job Printing and publishing, newspapers and periodicals Rubber tires, tubes, and rubber goods, not else- where specified. Screws, machine. Ship building, steel, new vessels and repair work. Slaughtering and meat packing. Stamped and enameled ware, not elsewhere specified steam fittings and steem and hot-water heating apparatus. Stoves and hot-air furnaces. Stoves, gas and oil. Structural ironwork, not made in steel works or rolling mills. In ware, not elsewhere specified Tobacco, cigars and eigarettes. Tools, not elsewhere specified All other industries.	4,495 2,480 2,197 6,899 2,431 11,339 8,505 7,627	3,736 2,995 1,930 6,838 2,416 10,698 7,837 7,241	3,740 2,616 1,949 6,463 2,431 10,728 7,922 7,267	3,803 2,392 1,976 6,384 2,351 10,926 7,949 7,418	4,077 2,264 2,067 6,306 2,331 11,074 8,132 7,483	4,332 2,285 2,192 6,438 2,356 11,163 8,222 7,585	4,656 2,224 2,300 6,726 2,389 11,171 8,445 7,574	4,804 2,236 2,320 7,171 2,524 11,301 8,696 7,545	4,926 2,328 2,351 7,382 2,556 11,597 8,700 7,690	4,879 2,402 2,273 6,894 2,495 11,596 8,705 7,719	4,998 2,561 2,321 7,431 2,477 11,894 8,854 7,895	4,968 2,709 2,379 7,464 2,449 11,991 9,252 8,038	5,021 2,748 2,306 7,291 2,397 11,929 9,346 8,069	74. 74. 81. 84. 91. 89. 83.
Rubber tires, tubes, and rubber goods, not elsewhere specified	63,637 4,226 11,192 5,336 3,834	53,904 8,541 10,606 5,844 3,489	56,340 3,642 11,419 5,348 3,462	56,747 3,830 12,081 5,148 3,444	58,382 4,025 11,925 4,999 3,628	61,209 4,130 12,068 4,995 3,684	63,649 4,146 12,057 5,366 3,727	67, 157 4, 204 11, 146 5, 316 3, 848	71, 484 4, 470 11, 740 5, 033 3, 973	71,834 4,582 11,054 5,063 4,018	74,720 4,746 10,992 5,198 4,220	63,864 4,644 9,937 5,738 4,328	64,354 4,752 9,279 5,984 4,187	72. 74. 76, 83. 79.
Steam fittings and steam and hot-water heating apparatus. Stoves and hot-air furnaces	2,723 6,069 4,329	2,709 5,666 3,651	2,603 5,762 3,727	2,574 5,486 3,669	2,545 5,641 3,624	2,518 5,733 3,672	2,567 6,028 3,767	2,718 5,487 4,353	2,826 6,370 4,606	2,822 6,526 4,683	2,872 6,539 5,195	2,861 6,766 5,509	3,061 6,824 5,492	82. 80. 65.
Structural ironwork, not made in steel works or rolling mills. Finiware, not elsewhere specified. Tobacco, cigars and eigarettes. Fools, not elsewhere specified. All other industries.	5,231 2,608 10,995 6,961 149,032	5,502 2,491 10,845 7,415 139,820	5,088 2,352 11,064 6,905 137,205	4,826 2,312 10,910 6,800 138,397	4,553 2,295 10,714 6,308 137,307	4,605 2,472 10,565 6,398 142,753	4,843 2,625 10,603 6,359 149,091	5, 147 2, 727 10, 558 6, 608 152, 852	5,470 2,912 10,529 6,858 159,217	5,621 2,789 10,644 7,058 159,884	5,286 2,803 11,398 7,270 156,793	5,860 2,780 11,794 7,615 157,283	5,971 2,738 12,316 7,938 157,782	76. 78. 85. 79. 85.

TABLE 8.-WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919-Continued.

	Aver-	N	UMBER	EMPLOYE	ED ON 15	TH DAY	OF THE	молтн о	R NEARI	est Repr	ESENTAT	TVE DAY.	,	Per
INDUSTRY AND CITY,	age num- ber em- ployed during year.	Janu- ary.	Febru-	March.	April,	May.	June.	July.	August	Sep- tember	Octo- ber.	November.	Decem- ber.	cent mini- mum is of maxi- mum.
Industries showing large proportion of females.														
Boots and shoes, not including rubber boots and shoes.	5,865	5, 843	5,907	5,699	5,506	5,708	5,846	6,005	6,077	5,950	5,785	5,927	6, 127	89.9
Boxes, paper and other, not elsewhere specified Bread and other bakery products. Clothing, men's. Clothing, women's. Confectionery and ice cream. Electrical machinery, apparatus, and supplies.	1,901 2,455 6,836 5,654 2,895 7,341	1,828 2,248 6,094 5,184 2,753 7,231	1,871 2,247 6,211 5,545 2,712 7,142	1,876 2,261 6,169 5,444 2,565 7,529	1,844 2,252 6,008 5,556 2,296 6,962	1,792 2,284 6,216 5,345 2,297 6,118	1,762 2,367 6,443 5,640 2,261 6,727	1, 924 2, 517 6, 801 6, 088 2, 261 6, 737	1,897 2,557 7,101 6,308 2,875 7,494	1,870 2,607 7,306 6,220 3,505 7,841	1,996 2,686 7,652 5,759 3,900 7,958	2,116 2,725 7,992 5,362 3,847 8,131	2,036 2,709 8,039 5,397 3,468 8,222	83.3 82.5 74.7 82.2 58.0 74.4
Glass. Gloves and mittens, cloth, not including gloves made in textile mills.	1,771	1,639 2,401	1,777	1,843	1,843	1,836	1,851	1,424	1,558 1,803	1,667	1,872 1,839	1,976 1,863	1,966 2,300	72.1
Hardware. Iron and steel, bolts, nuts, washers, and rivets, not	679	698	2,127 665	689	663	1,476	578	656	686	1,772	753	726	733	61.5 78.8
made in rolling mills. Knit goods Paper and wood pulp Pottery Printing and publishing, book and job.	816 3,471 874 3,309 2,550	866 3,016 874 3,078 2,358	788 2,753 798 3,112 2,352	767 2,877 801 3,176 2,310	763 2,995 803 3,211 2,410	3,131 846 3,269 2,472	3,337 864 3,277 2,537	804 3,592 885 3,261 2,661	3,855 918 3,382 2,596	3,863 851 3,418 2,605	732 4,050 930 3,498 2,621	869 4,083 955 3,528 2,833	920 4,100 963 3,498 2,845	79.6 67.1 82.9 87.2 81.2
Printing and publishing, newspapers and periodicals	1,338	1,363	1,326	1,360	1,357	1,381	1,327	1,290	1,298	1,285	1,338	1,361	1,370	93.0
Rubber tires, tubes, and rubber goods, not elsewhere specified. Screws, machine. Stoves, gas and oil. Tinware, not elsewhere specified. Tobacco, cigars and cigarettes.	6,223 742 509 860 8,481	6, 276 618 442 872 8,452	6,177 661 462 808 8,688	5,821 706 456 792 8,505	5,754 727 452 764 8,337	5,540 708 426 830 8,212	5,572 692 468 875 8,191	5, 726 714 520 901 8, 101	5,985 719 540 932 8,001	6, 125 727 548 913 8, 099	6,481 985 561 878 8,695	8, 197 852 609 896 9, 029	7,022 795 624 859 9,462	67.6 62.7 68.3 82.0 84.6
Total for cities ¹ . Males. Females.	577,271 487,499 89,772	561, 688 473, 446 88, 242	553,007 466,765 86,242	551,468 466,222 85,246	545,555 461,901 83,654	541,708 458,165 83,541	557,860 472,823 85,037	582, 876 495, 015 87, 861	604,870 513,260 91,610	606, 131 513, 097 93, 034	590, 601 495, 002 95, 599	604,995 505,829 99,166	626, 495 528, 463 98, 032	86.5 86.7 84.2
AKRON. Males. Females.	65,054 59,138 5,916	55,897 49,958 5,939	57,575 51,840 5,735	57,455 51,992 5,463	58,879 53,544 5,335	62,119 56,918 5,201	65, 258 59, 995 5, 263	69,013 63,598 5,415	73,074 67,448 5,626	72,507 66,743 5,764	75,929 69,574 6,355	66, 395 58, 316 8, 079	66,547 59,730 6,817	73.6 71.8 64.4
ALLIANCE	5,117 4,865 252	5,898 5,666 232	5,836 5,614 222	5,501 5,295 206	5,249 5,010 239	5, 158 4, 921 237	5,031 4,789 242	5,004 4,761 243	5,014 4,770 244	4,894 4,629 265	4,842 4,568 274	4,497 4,228 269	4,480. 4,129 351	76.0 72.9 58.7
ASHTABULA Males. Females.	4,172 3,947 225	3,952 3,753 199	4,021 3,808 213	4,119 3,927 192	4,103 3,906 197	4,301 4,078 223	4,391 4,139 252	4,403 4,116 287	4, 485 4, 226 259	3,953 3,697 256	3,925 3,673 252	4, 192 3, 974 218	4,219 4,067 152	87.5 86.9 53.0
BARBERTON Males Females.	4,762 4,336 426	5,661 5,168 493	4,967 4,476 491	4,679 4,234 445	4,423 4,034 389	4,408 4,028 380	4,364 3,989 375	4,570 4,160 410	4,643 4,220 423	4,738 4,318 420	4,841 4,416 425	4,861 4,427 434	4,989 4,562 427	77.1 77.2 76.1
BELLAIRE Males Females	2,277 1,882 395	2,563 2,198 365	2,501 2,167 334	2,309 1,917 392	2,148 1,740 408	2,004 1,624 380	2,065 1,676 389	2,538 2,209 <i>329</i>	2,734 2,349 385	2,687 2,281 406	1,918 1,465 453	1,906 1,466 440	1,951 1,492 459	69.7 62.4 71.7
Bucyrus Males. Females.	1,861 1,719 142	2,421 2,267 154	2,023 1,872 151	1,815 1,665 150	1,637 1,508 129	1,696 1,567 129	1,795 1,656 139	1,817 1,674 143	1,818 1,682 136	1,796 1,666 130	1,854 1,716 138	1,844 1,698 146	1,816 1,657 159	67.6 66.5 81.1
CAMBRIDGE Males Famales	1,782 1,657 125	1,808 1,693 115	1,654 1,548 106	1,676 1,561 115	1,679 1,561 118	1,681 1,550 131	1,773 1,643 130	1,840 1,741 99	1,880 1,764 116	1,832 1,694 138	1,866 1,716 150	1,813 1,675 138	1,882 1,738 144	87.9 87.8 66.0
CANTON Males. Females	20,336 18,371 1,965	19,368 17,488 1,880	19,695 17,781 1,914	20,016 18,075 1,941	19,210 17,312 1,898	19,626 17,762 1,864	20,098 18,170 1,928	20,948 18,953 1,995	21,623 19,598 2,025	20,748 18,716 2,032	18,845 16,773 2,072	21,950 19,889 2,061	21,905 19,935 1,970	85.9 84.1 90.0
CHILLICOTHE Males. Females.		1,424 1,212 212	1,428 1,231 197	1,389 1,198 191	1,430 1,224 206	1,542 1,255 287	1,996 1,709 287	1,817 1,432 385	1,940 1,487 453	1,751 1,431 320	1,751 1,479 272	1,584 1,379 205	1,604 1,379 225	69.6 70.1 42,2
CINCINNATI. Males Females		66,318 48,587 17,731	65,805 48,318 17,487	65, 385 48, 299 17, 086	64,807 47,871 16,936	65,304 48,145 17,159	67,171 49,547 17,624	69,742 51,569 18,173	72,042 53,386 18,656	72,860 54,060 18,800	73,706 54,660 19,046	75,871 56,093 19,778	77,149 57,405 19,744	84.0 83,4 85,6
CLEVELAND Males		153,839 129,126 24,713	149,085 125,326 23,759	148, 993 125, 159 23, 834	147,565 123,923 23,442	150, 237 126, 634 23, 603	153, 748 129, 552 24, 196	159, 223 133, 934 25, 289	164,754 137,841 26,913	165, 455 138, 499 26, 956	159,310 131,752 27,558	167, 909 140, 317 27, 592	172,842 145,477 27,365	85, 2 85, 2 85, 0
COLUMBUS Males Females Ł	26,751 22,067 4,684	26,188 21,920 4,268	26,017 21,568 4,449	25, 574 21, 108 4, 466	25,052 20,601 4,451	25,407 20,970 4,437	25,743 21,277 4,466	26, 564 22, 049 4, 515	27,545 22,853 4,692	27,534 22,795 4,739	28, 117 23, 015 5, 102	28, 673 23, 351 5, 322	28,598 23,297 5,301	87.4 88.2 80.2
Coshocton Males Females	1,959 1,257 702	1,772 1,111 661	1,820 1,169 851	1,788 1,122 666	1,854 1,180 674	1,897 1,206 691	1,928 1,232 696	2,018 1,318 700	2,061 1,328 733	2,098 1,354 744	2,081 1,339 742	2,094 1,358 736	2,097 1,367 730	84.5 81.3 87.5
CUYAHOGA FALLS	762 22	700 681 19	712 696 16	714 699 <i>15</i>	741 723 18	789 770 19	785 767 18	843 819 24	899 871 28	819 799 20	798 771 27	789 761 28	819 787 32	77.9 78.2 48.9
DAYTON Males. Females.	25, 971 5, 160	28, 443 23, 190 5, 253	26,887 21,905 4,982	27,911 23,109 4,802	28,616 23,853 4,763	25, 165 4, 896	30,691 25,690 5,001	31,765 26,665 5,100	31,958 26,896 5,062	33, 220 27, 798 5, 422	34,324 28,801 5,523	34,586 29,066 5,520	35,110 29,514 5,596	76.6 74.2 85.1
EAST CLEVELAND. Males. Females. EAST LIVERPOOL.	68 20	95 76 19	90 71 19	89 70 19	90 72 18	92 73 19	84 65 19	94 73 21	89 69 20	85 64 21	85 63 22	81 59 22	82 61 21	85.3 77.6 81.8
Males. Females.	3.082	4, 191 3, 005 1, 186	4,116 2,917 1,199	4, 131 2, 937 1, 194	4, 184 2, 999 1, 185	4,220 3,009 1,211	4,274 3,064 1,210	4,315 3,114 1,201	4,420 3,161 1,259	4,406 3,137 1,269	4,518 3,243 1,275	4,502 3,215 1,287	4,455 3,183 1,272	91.1 89.9 92.1

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

	Aver-	N	UMBER E	MPLOYE	ON 15T	H DAY)F THE M	ONTH OF	NEARE	ST REPRI	ESENTAT	IVE DAY.		Per cent
INDUSTRY AND CITY.	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.
ELYRIA Males Fomales	4,590 3,861 729	3,843 3,249 594	4,270 3,635 635	4,328 3,651 677	4,288 3,631 657	4,486 3,822 664	4,051 3,336 715	4,350 3,598 752	4,562 3,804 758	4,834 4,059 775	5,092 4,294 798	5, 421 4, 558 863	5, \$55 4, 695 860	69. 2 69. 2 68. 8
FINDLAY	1,715 1,210 505	1,559 1,026 533	1,609 1,062 547	1,555 1,042 513	1,563 1,059 504	1,667 1,165 502	1,660 1,180 480	1,743 1,265 478	1,880 1,378 502	1,786 1,310 476	1,821 1,352 <i>469</i>	1,837 1,345 492	1, 900 1, 336 564	81. 8 74. 5 83. 2
FREMONT Males Females	2,999 2,371 628	2,983 2,350 633	2,871 2,299 572	2, 865 2, 283 582	2,783 2,205 578	2,903 2,318 585	2,957 2,371 586	2,953 2,352 601	3,006 2,386 620	2,986 2,351 635	3, 168 2, 461 707	3,283 2,544 739	3, 230 2, 532 698	84. 8 86. 7 77. 4
HAMILTON Males Females	8,553 7,579 974	8,086 7,168 918	7,927 7,179 748	8,004 7,152 852	7,953 7,095 858	8,142 7,223 919	8,110 7,167 943	8,997 7,939 1,048	9,251 8,164 1,087	8,982 7,919 1,063	9,076 8,016 1,060	8,997 7,920 1,077	9, 121 8, 006 1, 115	85. 7 86. 9 67. 1
IRONTON. Males. Females.	1,971 1,587 384	2,083 1,659 424	2,078 1,633 445	1,942 1,533 409	1,866 1,490 376	1,843 1,451 392	1,834 1,481 353	1,827 1,465 362	1, 894 1, 517 377	2,004 1,635 369	2,217 1,847 370	1,988 1,638 350	2,076 1,695 381	82. 4 78. 6 75. 7
KENMORE. Males. Females.	135 128 7	130 126 4	130 126 4	131 126 5	134 127 7	135 129 6	137 129 8	139 130 9	138 129 9	138 180 8	136 128 8	136 128 8	136 128 8	93. 5 96. 9 44. 4
LAREWOOD. Males. Females.	1,821 1,547 274	1,982 1,620 362	1,708 1,437 271	1,684 1,424 260	1,610 1,373 237	1,629 1,386 243	1,616 1,387 229	1,689 1,436 253	1,741 1,490 251	1,897 1,611 286	1,967 1,6×3 284	2,104 1,804 300	2,225 1,913 312	72. 4 71. 5 63. 3
LANCASTER Males. Females	2,024 1,572 452	2,024 1,595 429	1,995 1,561 434	1,589	2,025 1,603 422	2,076 1,648 428	1,952 1,511 441	1,993 1,548 445	2,007 1,550 457	2,007 1,534 473	2,031 1,553 478	2,072 1,583 489	2,083 1,5%9 494	93. 7 91. 7 85. 4
LIMA Males Females	4,901 3,631 1,270	5,619 4,326 1,293		5,331 4,099 1,232	4,632 3,446 1,186	4,413 3,256 1,157	4,403 3,235 1,168	4,624 3,494 1,130	4,930 3,832 1,098	4,080 2,872 1,208	4,521 3,144 1,377	5,179 3,633 1,546	5,553 4,000 1,553	72. 6 66. 4 70. 7
Ioran Males Females	11,677 11,574 103	11,466 11,283 183		12, 235	11,829 11,743 86	11, 121 11, 037 84	11,446	11,003 10,902 101	11,585 11,488 97	11,715 11,621 94	11, 821 11, 722 99	11,813	12,012 11,922 90	89. 3 89. 1 42. 6
MANSFIELD Males Females	4,711 3,817 894	4,678 3,780 898	3,592	3,624	4,454 3,630 824	4,521 3,525 796	4,490 3,676 814	4,630 3,807 823	4,847 3,971 876	4,843 3,938 905	4,898 3,926 972	4,121	5,239 4,214 1,025	82. 5 83. 6 77. 4
MARIETTA Males Females	1,285 1,155 130	1,025 948 77	857	897	967	1, 154 1, 044 110	1,095	1,316 1,170 146	1,381 1,216 165	1,473 1,314 159	1,603 1,437 166	1,439	1,670 1,476 194	55. 4 58. 1 25. 1
MARION. Males Females.	4,125 3,641 484	4,202 3,777 426	3,695	3,607	3,579	3,603	3,529	4,069 3,573 496	4, 155 3, 671 484	3,584	4, 194 3, 672 522	3,710 547	589	93.7 93.4 77.1
MARTINS FERRY. Males. Females.	1,517 1,460 57	2, 106 2, 039 67	2,210	1,486	722		1,830	2,206 2,126 80	2, 249 2, 160 89	1,486 1,429 57	339 321 18	581 16	1,449 1,415 34	14. 8 14. 8 18. 6
MASSILLON Males Females	2, 153 1, 946 207	2,082 1,881 201	2,039 1,851 188	1,854	2,151 1,953 198	2, 250 2, 052 198	2,072	2,207 1,995 212	2,154 1,947 207	1,932 219	1,957	1,907 223	2,175 1,951 224	89. 89. 83.
MIDDLETOWN	6,442 5,351 1,091	6,538 5,576 964	5,472	5,388	5,228	5,120	5,180		5,354	5,340 1,090	5,350 1,123	5,441 1,233	5,501 1,197	92.1 91.5 78.
NEWARK. Males Females.		4,443 3,738 705	3,646	3,701		4,588 3,953 635	4,066	3,590 560	4,074 587	4, 123 572	4,196	631	4,368	82. 79.
NEW PHILADELPHIA		1, 283 1, 163 120	1,053	969	1,028 893 135	930	990	1,209	139	1,209	1, 26	1,192	1,229	73. 70. 80.
Niles Males Females	128	3,640	3, 13	5 2,900	3,323 3,202 121	2,836 2,701 133	3,158 3,027 131	2,993	2,807 124	2,873 113	91.	2,462	3,150 130	25. 52.
Norwood Males Females	8, 283 6, 803 1, 480	1,62	6,32 1,50	7 6,284 5 1,467	6, 194 1, 421	6,374 1,47	6,525 1 1,497	6,822 1,476	6,991 1,427	7,003	1,44	7,471 7 1,506	7,727 1,495	1.5
PIQUA Males Females	3,293 2,275 1,018	1,95 1,02	2, 13 9 1, 01	7 2,130 0 1,017	2,166	2,16 97	7 2,222 1 979		2,372 1,027	2,423 1,032 6,178	2,52 1,06 6,32	2,546 1,087 1 6,496	2,646 1,163 6,860	77. 78.
PORTSMOUTH. Males. Females. SALEM	1,511	4,24 1,49	8 4,12 5 1,48 4 2,07	6 3,954 7 1,454 7 2.040	4,177 1,417 2,207	3,907 1,458 2,14	7 4,129 8 1,495 5 2,200	4,217 1,510 2,277	4,478 1,560 2,233	1,537 $2,282$	1,52	1,570 8 2,366	1,624 2,565	87. 79.
Males. Females	3, 447	2,04	7 1,98	7 1,954 0 86 4 3,398	3,278	3,32	5 98 3 <i>3,24</i> 1	2 250	3,396 2 2,82	3,506	3,54	7 113 0 3,658	3,781 3,100	73. 85. 85.
Males. Females. SPRINGFIELD.	12, 264	11,63	8 11,66	$ \begin{array}{c c} 8 & 628 \\ \hline 8 & 11,738 \end{array} $	11,549	11,88	1 12,093 4 10,237	12,393	572 3 12,54 10,566	12,629 10,592	12,85 2 10,80	3 731 8 13,04 3 10,96	13,153 11,120	87. 89.
SPRINGFIELD. Males. Females. STEUBENVILE Males. Females.	1,838	1,62 4,67 4,48	2 1,60 3 4,56 9 4,34	8 1,617 4 4,543 8 4,325	7 1,613 3,608 3,408	1,67 3,65 3,45	7 1,856 3 3,823 2 3,620	1,884 3 4,533 1 4,333	1,97	7 4,803	1.26	2 1.39	4,657 4,400	26. 22.

TABLE 8. WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919-Continued.

	Aver- age	N	UMBER	EMPLOYF	d on 15	TH DAY	OF THE	MONTH (R NEAR	EST REPI	RESENTA	TIVE DAY		Per
INDUSTRY AND CITY.	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
Tiffin	2, 213	2, 151	2,095	2, 133	2, 109	2,084	2, 107	2, 189	2,258	2,286	2, 294	2,420	2, 430	85.8
Males	1, 948	1, 863	1,810	1, 852	1, 849	1,836	1, 855	1, 947	1,996	2,016	2, 043	2,146	2, 163	83.7
Females	265	288	285	281	260	248	252	242	262	270	251	274	267	84.0
TOLEDO.	42,090	42,597	43,348	44, 479	44,211	31,205	33,740	39, 492	42,499	43,352	45,608	46,408	48, 141	64.8
Males.	35,750	35,986	36,910	38, 102	37,969	25,838	28,585	33, 731	36,199	36,651	38,767	39,367	40, 895	63.2
Females.	6,340	6,611	6,438	6, 377	6,242	5,367	5,155	5, 761	6,300	6,701	6,841	7,041	7, 246	71.1
WARREN. Males. Females.	2,433	2,440	2,350	2,230	2,205	2,177	2,229	2,384	2,467	2,584	2,641	2,687	2,802	77.7
	1,811	1,815	1,690	1,556	1,593	1,624	1,621	1,800	1,860	1,940	2,035	2,060	2,138	72.8
	622	625	600	674	612	553	608	584	607	644	606	627	664	82.0
Youngstown	19,414	22,093	20,404	19,766	19,477	19,312	20, 156	21, 145	21,698	22, 303	10,916	15, 232	20,466	48.9
	18,547	21,092	19,456	18,886	18,660	18,483	19, 323	20, 341	20,882	21, 441	10,055	14, 368	19,577	46.9
	867	1,001	948	880	817	829	833	804	816	862	861	864	889	80.3
ZANESVILLE	3,014	3, 112	3,117	3,014	2,847	2,917	2,952	2, 982	2,997	3,032	3,053	3,034	3, 111	91.3
Males.	2,342	2, 431	2,437	2,355	2,278	2,251	2,266	2, 302	2,325	2,340	2,363	2,348	2, 408	92.4
Females	672	681	680	659	569	666	686	680	672	692	690	686	703	80.9

Table 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

						•				T
			IN ESTAI	BLISHMENT	S WHERE T	HE PREVAI	LING HOUR	S OF LABO	R FER WEE	k were-
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.	1919 1914 1909	730, 733 510, 435 446, 934	48, 750	48, 036 (2) (2)	198, 838 69, 975 31, 977	156, 028 78, 201 29, 296	51, 695 116, 627 88, 915	136, 582 126, 649 130, 852	59, 145 89, 552 131, 853	31, 65 29, 43 34, 04
gricultural implements.	1919 1914	4, 931 5, 464	(²) 4	(2)	4 10	1, 864 593	634 811	2, 006 3, 519	416 531	
utomobile bodies and parts	1919 1914	16,670 4,128	2, 385 (²)	487 (2)	5, 914 437	3, 477 538	1, 241 265	2, 570 2, 557	596 331	
utomobiles.	1919 1914	29, 212 14, 624	692 (²)	704 (2)	12, 344 39	10, 534 9, 600	231 2,409	4, 707 2, 406	170	
utomobile repairing.	1919 1914	2, 430 215	58 (²)	(²)	282 25	134 49	778 47	603 29	532 64	39
toots and shoes, not including rubber boots and shoes	1919 1914	14, 092 14, 461	15 (²)	(2)	17 810	12,309 103	257 6, 089	1, 470 7, 201	24 258	
oxes, paper and other, not elsewhere specified	1919 1914	2, 952 2, 456	196 (2)	83 (2)	39 329	2,083 149	264 1,594	220 219	67 165	
rass, bronze, and copper products	1919 1914	4, 264 2, 277	578 (2)	104 (³)	741 484	2,159 422	206 543	444 651	32 75	10
read and other bakery products.	1919 1914	9,091 7,665	223 (²)	864 (2)	4, 549 758	448 328	1, 472 3, 787	525 493	899 1,969	11 38
rick and tile, terra-cotta, and fire-elay products	1919 1914	12,060 16,238	76 (²)	76 (²)	1,624 604	1,587 814	2,552 2,840	2, 052 2, 802	3, 900 9, 046	19 13
ars and general shop construction and repairs by steam-railroad companies.	1919 1914	35, 245 21, 639	243 (2)	916 (2)	21, 533 8, 512	189 3, 164	585 5,025	11,662 730	117 857	3, 35
ars, steam-railroad, not including operations of railroad companies.	1919 1914	2, 177 2, 885	132	773		213 929	98	1,059 1,858		
hemicals	1919 1914	3,670 2,017	116 (²)	46 (2)	77 380	371	20	2, 739 859	283 266	1 51
lothing, men's.	1919 1914	9, 939 8, 691	6, 154 (²)	1, 599	1,303 3,058	751 4,095	122 1,358	9 142	1 38	· <u>·</u> ·····
lothing, women's	1919 1914	8, 258 9, 775	6, 521 (¹)	506 (2)	660 903	563 7, 385	8 1,457	3	27	
oke, not including gas-house coke	1919 1914	3, 407 489						1,094	205	2, 31 28
onfectionery and ice cream ³	1919 1914	5, 451 3, 965	122 (²)	284 (2)	1,044 292	1,713 357	728 2,091	845 587	488 322	22 31
opper, tin, and sheet-iron work	1919 1914	2, 650 2, 335	543 (2)	45 (2)	315 783	948 310	113 396	248 518	437 328	
electrical machinery, apparatus, and supplies	1919 1914	26,672 12,695	736 (2)	362 (²)	6, 336 657	10, 998 3, 850	722 4,098	5, 468 3, 795	2,050 295	
ngines, steam, gas, and water.	1919 1914	6, 218 2, 962	633 (2)	308 (²)	1, 207 100	327 179	110 59	3, 582 2, 400	51 224	
lour-mill and gristmill produc's	1919 1914	2, 122 2, 363	23 (²)	(2) 7	429 115	27 18	171 216	68 105	1, 289 1, 683	10 22
oundry and machine-shop products 4	1919 1914	87, 803 51, 553	3, 847 (⁴)	2,797 (2)	25, 681 4, 377	22,910 7,786	9, 206 10, 749	20, 096 21, 324	2,956 7,308	

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

Includes "chewing gum" in 1919.
Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks, portable."

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

The second secon			IN ESTAI	BLISHMENT	S WHERE T	HE PREVAI	LING HOUR	S OF LABOR	R PER WEE	k were-
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Furniture.	1919	8,346 7,750	253 (²)	(2) 44	423 622	2, 513 1, 496	593 813	4, 084 2, 591	436 2, 228	
Glass	. 1919 1914	10, 935 10, 997	1, 197 (³)	2,723	3,780 784	1, 471 4, 515	916	783 198	65 2, 276	308
Gloves and mittens, cloth, not including gloves made in textile mills	:	2, 162	20	176	52	1,914	2,916		-,	
Hardware	. 1919 1914	4, 576 4, 803	(2) 5	2,499 (1)	141 106	515 170	569 127	694 2, 399	153 660	1,341
Iron and steel, blast furnaces	. 1919 1914	9, 793 5, 786		· · · · · · · · · · · · · · · · · · ·	87			988	1,762 918	6, 956 4, 868
Iron and steel, steel works and rolling mills	. 1919 1914	73, 025 46, 397	8, 343 (²)	(3)	8, 058 3, 303	1, 204 2, 013	567 2,961	15, 690 8, 094	24, 170 20, 551	13, 993 9, 475
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919 1914	4,778 2,365	(2)	(2)	7 341	1,019	153 60	3, 436 1, 957	31	132
Iron and steel, forgings, not made in steel works or rolling mills.	1919 1914	5, 931 2, 308	471 (2)	664 (2)	1,901 449	1,063 234	29 244	1,738 1,174	65 41	166
Iron and steel, wrought pipe	. 1919 1914	4,434 2,285	24	239		1,217	31 176	1,581 1,083	1,342 1,026	
Knit goods.	- 1919 1914	4,407 3,411	7 (2)	184	374 64	3,333 205	286 2,935	203 107	20 100	
Liquors, malt	1919 1914	3,327 5,340	33	(2)	3,063 4,287	59 59	66 619	143	106 232	
Lumber and timber products	1919 1914	3,135 4,798	132	31	181 318	183 175	570 688	829 1,141	1,209 2,459	17
Lumber, planing-mill products, not including planing mills connected with sawmills.	1	4,495 5,516	101 (2)	50	242 502	872 473	1, 168 2, 086	1,569 1,507	492 948	1
Motorcycles, bicycles, and parts	1919 1914	2,480 752			160	130 78	220 199	1,970 467	6	2
Paints	1919 1914	2,197 1,697	29	10 (²)	328 55	1,048 184	86 209	629 860	3 67 389	
Paper and wood pulp	1919 1914	6,899 5,430	270		1,873	102	437 829	1,518 344	783 820	2,018 3,437
Petroleum, refining	. 1919 1914	2,431 1,519			604	1,029 828	186 406	279	121 123	212 162
Pottery	1919	11,339 11,096	310 (²)	(2)	2,895 1,591	4,352 2,090	2,733 5,099	1,045 955	4 1,361	
Printing and publishing, book and job	1919	8,505	298	(2) 643	6,423 5,420	967 1,006	124 1,240	48 242	2 70	
Printing and publishing, newspapers and periodicals	1919	7,978	(2)	(2)	6,567 5,535	287 408	357 829	81 423	75 79	48
Rubber tires, tubes, and rubber goods, not elsewhere specified	1919	7,274 63,637	(2) 2,207 (2)	(°) 22,489 (°)	33,308 3,057	2,396 5,848	265 99	2,874 12,297	98 64	340
Screws, machine	1914	21,705 4,226	3	2,453	155	792	70	753	306	
Shipbuilding, steel	1914	1,464	(2) 2,340	(2)	1,001 8,690	97	65	157		
Slaughtering and meat packing	1914	2,623 5,336	915	137	1,469	547	232 1,174	663 385	1,728	16
Stamped and enameled ware, not elsewhere specified.	1914	3,480	(²)	(²) 147	110	1,392	635 219	459 1,657 1,660	2,269 280	1
Steam fittings and steam and hot-water heating apparatus	1914	2,853	(²) 91	(2) 1	2,175	179	393 238	39	490	
Stoves and hot-air furnaces.	1914	2,414 6,069	(²) 802	(2) 60	71 1,658	219 1,127	1,199 1,838 812	673 354 2,032	252 230	
Stoves, gas and oil.	1914 1919	5,041 4,329	(²)	(2)	454	1,304	812 29 81	367	842	
Structural ironwork, not made in steel works or rolling mills	1914	3,534	(²) 183	(²)	2,625 2,360 279	135 1,442	508	368	590 245	
	1914	5,231 6,657	(²) 242	(2)	. 13	1,356	1,584 107	2,553 3,027 42	1,085	
Tinware, not elsewhere specified.	1914	2,608 2,260	(2)	(²) 1,013	861 252 1,216	463	1,384 402	- 60	6 12	95
Tobacco, cigars and cigarettes	1919 1914	10,995 12,025	1,512 (²)	(2)	1,216 4,397	6,568 1,592 1,988	5,488	271 464 2 582	80	4
Tools, not elsewhere specified	1919 1914	6,961 2,227	(2)	749 (2)	1,307	1,568	35	2,562 520	253 83	
All other industries.	1919 1914	133,456 117,753	5,420 (2)	3,665 (*)	23,698 10,775			25,093 28,386 parately in	12, 293 23, 408	4,959 5,271

¹ Includes 48 and under for 1914.

^{*}Corresponding figures not available.

³ Not reported separately in 1914.

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

			IN ESTAI	BLISHMENTS	WHERE T	HE PREVAI	LING HOUR	S OF LABOR	PER WEE	K WERE
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48. ¹	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Total for cities 2	. 1919 1914	577, 271 385, 608	42, 142 (3)	43,058 (3)	171,125 57,842	134, 876 68, 747	38,564 92,067	97, 460 98, 650	29,941 47,354	20, 105 20, 948
Atron	. 1919 1914	65,054 24,680	160	21,052 (3)	36,736 4,188	3,285 5,936	1,700 953	1,760 11,873	257 580	104 1,150
ALLIANCE	. 1919 1914	5,117 2,333	460 (3)	(8)	989 306	1,465 11	387 1,136	1,751 107	38 711	27, 65
Ashtabula	. 1919 1914	4,172 1,868	74	190	2,699 265	426 25	509 852	229	35 615	10
BARBERTON	1919	4,762	31	(3) 579	725	1,047	124	2,241	9	111
Bellaire	1914	3,118 2,277	(³) 121	(3) 666	132	19	1,201	1,245 426	642 155	587 882
Buctrus (1914	2,603 1,861	(3)	(^{\$})	118 925	19 349	1,099 52	469 485	36 39	862
CAMBRIDGE	. 1919 1914	1,782 1,455	552	20	277 180	440 491	28 615	5 136	460 27	ļ
CANTON	1919 1914	20,336 12,255	3, 878 (³)	208	1,383 1,400	2,019 811	1,123 1,555	9,911 7,579	1,674 566	140 344
CHILLICOTHE	. 1919 1914	1,638 1,557	(8)	(3)	432 27	38 59	34 401	819 637	278 198	23
Cincinnati	1919 1914	69,680 59,861	8,045 (8)	2,556 (³)	26,854 11,975	21,343 13,526	4,013 16,330	5,322 12,713	1,343 4,410	204 907
CLEVELAND	- 1919 1914	157, 730	15, 288	9,488	36,548	46,756 20,680	10,547 24,581	24,945 19,409	10,764 16,556	3,394 4,988
Ооломвия	1919	103,317 26,751 17,236	(8) 778 (8)	737	17,103 9,225	5,454	1,482	7,729	1,075	271 80
Созностом	1914	1.959	2		5,611 731	1,614 1,015	3,965 162	4,702 37	1,255 12	89 41
CUYAHOGA FALLS 4	1914	1,614 784	(³) 1	(3) 112	57 163	240 226	1,206	49	21	41 : :::::::::::::::::::::::::::::::
DAYTON	. 1919 1914	31,131 24,061	2, 283 (³)	1, 165	3,340 2,335	9,863 1,451	6,962 8,492	6,453 - 10,041	954 1,605	111 137
EAST CLEVELAND.	. 1919 1914	88 129	15	(3)	8 2	32	3 14	30 104	i	
EAST LIVERPOOL	. 1919 1914	4,311 4,830	(3)	15 (³)	1,509 1,590	1,689 614	1,058 2,359	66	17 146	17
ELYRIA	1919 1914	4,590 2,735	9	192	1,056 25	1,747 988	440 167	563 762	583 429	364
FINDLAY	1919	1.715	(2)		110	503	292	645	126	28 143
FREMONT	1914	1,737 2,999 2,063	(a) 9	(3) 10	104 76	1,306	925 140	115 1,238 1,190	326 133 318	87 3
Намилоп	1914	8, 553	(3) 605	(3) 596	193 4,661	118 667	241" 225	1,760	39	
IRONTON.	1914	6,043 1,971	(*) 100	(3)	797 330	606	506-	2,580 309	926 278	1,135 298 189
Kenmore 4.	1914 1919	1,420 135	(3)	(³) 5	236 1	81	319 100	183 26	412	189
Liakewood,	1919 1914	1,821	10 (²)	(3)	1,659 35	127 1,238	6 13	7 77	10	7
Lancaster	1919	1,774 2,024	109		582	1,000	167	130 224	404 9	27
LIMA	1914	1,583 4,901	(3)	(3)	628	2,934	1,190	843	59 233	67
LOBAIN.	1914	4,876 11,677	(3)	(³) 14	98 4,274 287	719 263	1,882 311	1,906 50	259 193	6, 565
Mansfield	1914	6,436 4,711	(3) 327	(⁸) 264	138	20 1,832	43 29	16 2,076	1,657 45	4,413
MARIETTA	- 1914 - 1919	3,398 1.285	(³)	(³)	300 589	469 184	1,456. 174	1,006 274	160 46	7
Marion	1914	1,401 4,125	(4)	(2)	58 79	22 640	523 77	178 3,019	608 309	12 1
Martins Ferry	1914	2,577	(3)	(3)	1,383	154	862	26	132	20 84
MARTINS FEREY (MASSILLON	1919	1,517 2,153	847 458	2	75 48	924	378 129	108 305	18 132	155
¹ Includes 48 and under for 1914.	1914	2,153 1,768	(8)	(3)	57	354	744 ponding fi	509	98	1 6

Includes 48 and under for 1914.
 Excludes Cleveland Heights and East Youngstown to avoid disclosure of individual operations.

⁸ Corresponding figures not available.
4 Not shown separately in 1914.

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

			IN ESTAB	Lishments	WHERE TI	IE PREVAIL	ING HOUR	OF LABOR	PER WEEL	K WERE-
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48,1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over60.
DLETOWN	. 1919 1914	6,442 4,003	5 (²)	(²)	3,380 44	1,698 29	46 1,088	512 417	128 2,041	673 38
/ARK	1919 1914	4,570 4,583	(2) 47	489 (2)	685 72	487 892	1,359 1,638	1,331 1,778	165 187	1
PHILADELPHIA 3	1919	1,247	617	9	196	307	39	12	65	
in and produced to the period of the control of the	1919	2,945	416		645	208	141	1,274	6	25
woon	1919 1914	8,283 5,808	146 (²)	898 (²)	3,808 1,069	2,630 1,338	272 2,707	521 656	4 33	
	1919 1914	3,293 2,777	25 (²)	184 (2)	44 31	1,055 357	538 1,219	826 239	303 764	318 167
TSMOUTH	1919 1914	5,914 3,597	(2)	(²)	113 94	2,481	29 268	1,454 2,869	1,824 343	2
iм 3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1919	2,237	624	892	208	67	88	9	349	
ousky	1919 1914	3,447 2,727	223 (2)	(2) 68	551 415	475 66	544 785	1,171 710	273 400	142 351
NGFIELD	1919 1914	12,264 7,868	174 (2)	(2)	1,360 1,010	2,416 1,227	395 471	7,670 4,601	214 508	24 51
JBENVILLE	1919 1914	3,855 4,506	475 (²)	(2)	144 729	505 533	106 33	2,060 150	143 2,663	423 398
in the first term of the first term of the second field in the sec	1919 1914	2,213 2,177	(2)	489	109 31	170 498	926 331	302 883	166 404	38 36
EDO.	1919 1914	42,090 27,076	3,436 (2)	1,582	20,903 2,258	11,294 13,645	2,131 6,399	1,484 2,675	575 1,300	706 796
REN	. 1919 1914	2,433 2,862	16 (2)	(2)	204 1,665	1,733 40	133 444	291 627	26 68	28 18
NGSTOWN	1919 1914	19,414 15,861	1,605 (2)	277	1,121 1,384	754 94	566 2,384	3,893 3,930	5,892 4,784	5,300 3,28
	1919 1914	3,014 3,035	(²)	4	672 264	409 143	130 670	944 1,213	524 702	4.

TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

	ī					Minister as 1 Transcold	The second secon												
	TO	TAL.							ESTABLI	SHM	ENTS EN	trLO.	YING—						
INDUSTRY AND CITY.	ents.	Wage earners (average number).	No wage earn- ers.	ear	to 5 age ners, usive.	ear	o 20 age mers, usive.	ear:	to 50 age ners, usive.	ea	to 100 wage rners, lusive.	ea	l to 250 wage irners, clusive.	es	to 500 wage rners, lusive.	ea	to 1,000 wage irners, clusive.		er 1,00 wage rners.
	Establishments,	Wage earne	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earmers.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage carners.	Establish- ments.	Wage earners.
All industries	16, 125	730, 733	2,028	7,092	16, 393	3,096	34,943	1,615	53, 388	935	66,641	799	125,932	312	110, 104	168	118,061	80	205, 2
Agricultural implements. Automobile bodies and parts. Automobiles. Automobiles. Automobile repairing. Boots and shoes, not including rubber boots and shoes.	46 237 44 540	4,931 16,670 29,212 2,430 14,092	3 20 25	14 72 1 425	36 175 5 995	5 59 3 76 6	70 676 43 734 72	34 6 10	1, 152 1, 117 195 298 79	4 23 3 3 8	325 1,644 204 182 681	9 12 13 1	1,493 1,867 1,923 221 3,819	5 7 8 	1,593 2,565 2,673 2,860	2 8 5 	1,262 5,540 3,405 5,012	2 5 	3,00 20,70
Boxes, paper and other, not elsewhere specified. Brass, bronze, and copper products. Bread and other bakery products. Brick and tile, terra-cotta, and fire-elay products.	58 92 1,621 341	2,952 4,264 9,091 12,060	4 284 5	6 24 1,062 112	16 68 2,277 306	15 30 202 65	224 344 2,055 779	15 17 43 81	552 526 1,334 2,983	13 6 15 56	905 387 1,085 3,891	9 6 13 18	1,255 925 1,790 2,756	4 2 4	1,471 550 1,345	1	543		
Cars and general shop construction and repairs by steam-railroad companies	117	35,245	 -	5	22	6	79	13	423	20	1,468	29	5,214	27	9,789	11	7,436	6	10,8
Cars, steam-railroad, not including opera- tions of railroad companies	8 37 246 175 13	2,177 3,670 9,939 8,258 3,407	11 4	5 62 25	19 184 68	12 81 62	138 1,012 745	1 10 45 43	27 277 1,520 1,520	2 5 25 23 3	144 345 1,832 1,642 214	3 1 16 13 4	383 214 2,362 1,943 745	1 3 3 5	275 1,052 1,136 1,944	2 2 3 2 1	1,623 1,317 1,977 1,204 504	i	1,0
Confectionery and ice cream	380 262	5,451 2,650	65 26	191 155	390 349	61 56	643 675	33 16	1,073 479	15 4	1, 147 253	14 4	1,869 498	1	329 396				
supplies	189 44 577	26,672 6,218 2,122	5 113	48 9 385	144 27 827	40 6 61	496 59 533	38 7 13	1,311 215 388	11 8 4	798 553 261	25 5 1	4,142 742 113	11 5	3,762 1,560	5 3	3,508 1,866	6 1	12,5 1,19
Foundry and machine-shop products Furniture	1,000 162 44	72,227 8,346 10,935	57 11	247 31	697 96	228 38 1	2,604 501 17	179 35 1	5, 967 1, 186 43	118 30 11	8,384 2,150 796	99 13 14	15,942 2,013 2,154	42 2 11	14, 197 539 4, 015	25 1 6	17,712 731 3,910	5 1	6,7; 1,1;
Floves and mittens, cloth, not including gloves made in textile mills	35 50	2, 162 4, 576	4	6 15	18 28	10 9	122 86	8 9	282 310	5 4	319 246	4 7	638 1,141	2 1	783 303			··· _i ·	2,4
ron and steel, blast furnaces ron and steel, steel works and rolling mills. ron and steel, botts, nuts, washers, and rivets, not made in rolling mills ron and steel (orgings, not made in steel	42 86 23	9,793 73,025 4,778		1 2	1 9	1 2 4	19 30 36	3 4 4	102 167 160	10 3 2	714 196 148	16 14 6	2,708 2,480 1,036	6 17 3	2, 126 6, 125 1, 112	6 27 1	4,124 20,075 975	18 1	43,9 1,30
ron and steel forgings, not made in steel works or rolling mills	38 8	5,931 4,434	1	3	6	2	26	7	250 100	5	336	13 1	1,752 239	5	1,967	2	1,594 1,581		
Knit goods	34 73 514	4,407 3,327 3,135	13	3 7 379	9 27 770	7 20 98	104 241 1,088	3 2 25 18	98 815 576	7 14 3	494 1,030 211	8 7 3	1,368 1,214 490	6	2,334		1,001		2,5
sawmills Motorcycles, bicycles, and parts	378 9	4,495 2,480	23	200	475	99	1,158	39	1,202	10 3	573 221	6 3	734 509	1	353 374	····		 1	1,3
aints. aper and wood pulp etroleum, refining. ottery.	61 49 11 95	2, 197 6, 899 2, 431 11, 339	i	26 7	71 10	17 3 2 7	172 46 13 84	9 14 2 19	295 429 93 637	12 12 22	150 898 1,572	5 14 4 29	849 2,085 698 5,082	1 2 4 8	660 1,455 2,605	$egin{array}{c} 1 \\ 1 \\ 2 \end{array}$	621 598 1,349	i i	1,3 1,0
Printing and publishing, book and job Printing and publishing, newspapers and	871	8,505	176	424	1,002	175	1,986	67	2, 131	17	1,236	11	1,714	1	436				
periodicals. tubber tires, tubes, and rubber goods, not elsewhere specified crews, machine hipbuilding, steel, new vessels and re-	794 96 19	7,627 63,637 4,226	253	356 13 4	899 38 9	118 22 5	1,286 249 76	37 20 1	1, 153 737 37	16 6 2	1, 192 469 123	9 13 3	1,301 2,011 415	12 3	1, 220 4, 427 1, 112	3	576 1,802	7 1	53,9 2,4
pair worklaughtering and meat packingtamped and enameled ware, not else-	9 141	11,192 5,336	14	 54	147	1 31	9 368	21	635	3 12	242 883	1 6	157 758			3	2,545		10,7
where specified steam fittings and steam and hot-water heating apparatus toves and hot-air furnaces. toves, gas and oil	29 67 34	3,834 2,723 6,069 4,329	3 1	9 7, 11 15	27 17 27 45	9 7 13 4	104 71 150 33	9 4 11 6	294 125 340 203	9 3 14 2	208 1,026 124	9 3 13 2	1,366 517 1,924 406	4 2 4	1,469 748 1,246	1 1	569 575	1 1 1	1,2 1,2 2,2
Structural ironwork, not made in steel works or rolling mills. Fobacco, cigars and cigarettes. Fools, not elsewhere specified. I other industries.	93 14 676 149 5, 285	5,231 2,608 10,995 6,961 149,032	255 8 639	20 2 271 27 27 2,347	52 5 529 63 5,398	31 2 62 51 1,171	326 30 773 632 13,126	17 2 34 38 535	521 83 1, 169 1, 163 17, 616	9 1 22 12 295	662 96 1,650 863 20,894	12 2 28 10 192	1,762 355 4,616 1,672 29,552	1 4 2 1 68	269 1,514 629 472 24,314	2 1 1 1 28	1,639 525 537 972 19,854	 1 1 1 10	1,0 1,1 18,2
Total for cities 1	10, 537	577, 271	1, 263	4, 104	10, 207	2, 273	25, 699	1, 193	39, 156	661		599		242	84, 152	134	96, 693	68	179, 6
AKBON ALILINCE ASHTABULA BARBERTON BELLAIRE	304 74 62 32 45	65,054 5,117 4,172 4,762 2,277	14 13 3 6 5	130 34 36 6 18	351 75 79 10 38	58 9 7 5 10	691 95 79 42 104	43 8 2 3 4	1, 430 267 71 90 123	23 1 4 3	1,631 89 285 201	19 3 4 2 5	3,058 563 689 317 836	7 3 5 2 3	2,808 1,068 1,365 512 1,176	4 2 5	3,102 1,568 3,590	6 1 1	51,98 1,39 1,60

 $^{^{1}}$ Excludes Cleveland Heights and East Youngstown, to avoid disclosure of individual operations.

Table 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

	то	TAL.		-		TOTAL CONTRACTOR OF			STABLIS	ние	NTS EM	PLOY	ang—					
INDUSTRY AND CITY.	onts.	rs (average oer).	No wage earn- ers.	eari	o 5 age aers, asive.	eari	o 20 age aers, asive.	ear)	o 50 age iers, isive.	ear	to 100 vage mers, lusive.	ea	to 250 vage rners, lusive.	89	to 500 wage rners, lusive.	ea	to 1,000 wage rners, lusive.	Over 1,000 wage earners.
	Establishments.	Wage earners (av	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.
BUCYRUS. CAMBRIDGE CANTON. CHILLICOTHE CINCINNATI.	43 32 287 35 2,239	1, 861 1, 782 20, 336 1, 638 69, 680	26 1 280	16 19 105 18 837	25 57 231 53 2, 120	12 7 70 8 518	130 93 751 79 5, 907	2 40 3 276	60 1,304 97 9,075	1 2 15 1 163	54 150 1, 072 72 11, 774	3 1 12 2 113	391 234 1,869 318 17,247	3 2 13 1 39	1, 201 699 4, 405 394 13, 952	1 2 1 12	549 1, 131 625 8, 389	4 9,573 1 1,216
CLEVELAND COLUMBUS COSHOCTON CUYAHOGA FAILS DAYTON	2, 946 690 45 30 571	157,730 26,751 1,959 784 31,131	401 86 5 	1, 123 264 17 16 222	2,746 692 51 39 562	626 163 7 6 118	7, 179 1, 871 79 71 1, 297	323 83 7 4 83	10, 569 2, 678 245 129 2, 654	171 41 3 	12, 161 2, 908 206 3, 423	163 35 4 4 34	25, 890 5, 062 676 545 5, 341	67 9 2	23, 260 3, 163 702 2, 459	48 7 4	35, 805 4, 446 2, 974	24 40, 120 2 5, 931 5 12, 421
EAST CLEVELAND EAST LIVERPOOL ELYRIA FINDLAY FREMONT	17 67 75 75 53	88 4,311 4,590 1,715 2,999	2 2 6 9 2	12 26 36 35 20	35 62 79 83 55	2 15 10 16 16	25 193 95 150 194	1 5 1 8 5	28 181 22 235 122	6 10 1 5	449 669 66 374	7 6 1	1,368 1,108 1,181 122	2 3 2	709 926 782	2 2 2	1,349 1,691	
Hamilton Ironton Kenmore Lakewood Lancaster	130 52 7 33 43	8,553 1,971 135 1,821 2,024	19 1 8 3	49 16 5 15 15	116 38 15 35 30	27 15 1 7 13	290 176 20 65 122	13 9 1 1	468 323 28 27	6 5 1 1 4	424 415 100 83 314	7 6 	1,081 1,019 	4 1	1, 207 417	2	1, 212	3 3,755 1 1,610
Lima Lorain Mansfield Marietta Marion	108 55 132 59 70	4,901 11,677 4,711 1,285 4,125	8 9 18 5 9	43 15 53 29 27	110 34 126 73 73	29 18 33 16 15	310 195 379 181 152	15 4 8 2 7	519 111 264 60 265	5 1 8 2 3	309 82 560 154 223	3 2 8 4 5	390 361 1,268 553 813	2 3 2 1 2	736 1,050 852 264 834	2 1 2 1	1, 434 739 1, 262 673	1 1,093 9,108 1 1,092
MARTINS FERRY MASSILLON MIDDLETOWN NEWARK NEW PHILADELPHIA	40 80 56 79 43	1,517 2,153 6,442 4,570 1,247	10 9 5 8 4	16 43 19 30 26	31 99 48 79 56	5 11 11 18 8	55 139 139 188 66	3 7 6 10 2	90 242 206 349 61	2 5 6 8	155 319 400 533	3 2 6 1	526 239 904 109 150	3 1 1 1	1, 115 373 489 297	1 1 1	536 617	2 4,372 2 2,287
Niles. Norwood. Piqua. Poetsmouth. Salem	40 70 66 60 36	2,945 8,283 8,293 5,914 2,237	2 5 6 9 2	18 30 26 24 14	40 88 59 73 38	4 6 14 9 8	44 76 157 83 88	5 5 8 4	162 152 156 287 140	3 2 3 3 3	242 172 226 228 198	11 7 2 1	558 1,719 1,152 292 227	3 6 5 1 3	956 1, 927 1, 543 277 922	1 4 2 1	943 3,019 1,540 624	1 1, 130 2 3, 134
Sandusky Springfield Steubenville Tiffin	115 206 57 75	3, 447 12, 264 3, 855 2, 213	20 27 3 10	34 70 26 35	87 201 65 85	24 42 17 16	311 445 172 169	18 25 3 4	565 794 94 126	13 14 1 5	942 1,068 71 343	3 19 4 3	611 3,073 677 467	3 4 2 1	931 1,304 716 484	4	2, 451 539	1 2,928 1 2,060
Toledo Warren. Youngstown. Zanesville.	671 96 239 97	42,090 2,483 19,414 3,014	80 18 38 9	239 44 110 43	624 97 252 92	159 16 33 15	1,860 165 348 179	84 6 24 13	2,876 199 793 419	40 3 10 8	2,787 185 689 535	42 6 9 7	6,647 832 1,661 1,155	15 3 2 2	5, 555 955 733 634	10	7, 195 6, 680	2 14,546 5 8,258

Table 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.		UMBER C			GE NUMB GE EARNE		VA	LUE OF PRODUC	TS.	VALUE AD	DED BY MANU	FACTURE.
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes	16, 125	15,658	15,138	730, 733	510,435	446, 934	\$5, 100, 308, 728	\$1,782,808,279	\$1,437,935,817	\$2, 188, 360, 857	\$762,026,264	\$613, 733, 870
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, 192 4, 452 4, 270 2, 674 673 864	5, 105 4, 614 3, 464 1, 823 352 300	5,095 4,474 3,405 1,919 245	2,102 12,089 44,277 {123,388 85,097 463,780	6, 151 20, 996 61, 756 }229, 226 192, 306	7,021 23,571 64,853 208,656 142,833	8, 120, 780 49, 105, 812 201, 110, 443 607, 923, 301 475, 436, 292 3, 758, 612, 100	12, 447, 953 47, 806, 840 159, 828, 466 411, 257, 188 244, 522, 194 906, 945, 638	156,080,099	5,074,894 27,477,990 100,752,506 298,904,714 227,190,031 1,528,960,722	7, 755, 381 27, 043, 887 79, 804, 644 308, 732, 635 338, 689, 717	7, 811, 667 26, 309, 694 76, 806, 053 258, 737, 951 244, 068, 505
· · · · · · · · · · · · · · · · · · ·							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. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	19.8 27.6 26.5 16.6 4.2 5.4	32.6 29.5 22.1 11.6 2.2 1.9	33.7 29.6 22.5 12.7 1.6	0.3 1.7 6.1 16.9 11.6 63.5	1.2 4.1 12.1 44.9 37.7	1.6 5.3 14.5 46.6 32.0	$\left\{\begin{array}{c} 0.2\\ 1.0\\ 3.9\\ 11.9\\ 9.3\\ 73.7\end{array}\right.$	0.7 2.7 9.0 23.1 13.7 50.9	0.8 3.2 10.9 38.8 46.3	$\left\{\begin{array}{c} 0.2\\ 1.3\\ 4.6\\ 13.7\\ 10.4\\ 69.9 \end{array}\right.$	1.0 3.5 10.5 40.5 44.4	1,3 4,3 12.5 42.2 39.8

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

	I		BER OF ISHMEN			ERAGE N WAGE EA			VA	LUE OF PROD	ucts.		VALUE AI	DED BY MAN	TUFACT	URE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914		cent bution.	1919	1914		cent bution.	1919	1914	Per distri	cent bution.	1919	1914	Per distrib	cent oution.
			1919	1914		1011	1919	1914		1011	1919	1914	1515	1014	1919	1914
AGRICULTURAL IMPLE- MENTS	46	59	100.0	100. 0	4,931	5, 464	100.0	100.0	8 26, 556, 031	\$17,484,615	100.0	100.0	\$13,589,296	89,674,830	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 9 5 8 8	10 15 11 10 9 4	15. 2 19. 6 10. 9 17. 4 17. 4 19. 6	16. 9 25. 4 18. 6 16. 9 15. 3 6. 8	10 24 57 424 1,271 3,145	8 75 287 13,024 2,070	0. 2 0. 5 1. 2 8. 6 25. 8 63. 8	0.1 1.4 5.3 55.3	23,575 101,019 269,725 2,022,773 5,776,757 18,362,152	17, 421 129, 534 638, 360 3, 611, 494 5, 560, 310 7, 527, 496	0.1 0.4 1.0 7.6 21.8 69.1	0. 1 0. 7 3. 7 20. 7 31. 8 43. 1	11,916 47,421 127,792 1,102,297 2,748,885 9,550,985	11,353 76,840 344,419 14,723,398 4,518,820	0.1 0.3 0.9 8.1 20.2 70.3	0.1 0.8 3.6 48.8 46.7
AUTOMOBILE BODIES AND PARTS	237	63	100, 0	100, 0	16,670	4, 128	100.0	100.0	92,390,646	9,556,097	100.0	100.0	39,848,697	5,096,922	100, 0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$5,000 to \$20,000. \$100,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	65 54 8	9 18 19 114 3	11. 8 25. 7 27. 4 22. 8 3. 4 8. 9 100. 0	14. 3 28. 6 30. 2 22. 2 4. 8 100. 0	12 173 855 2,765 1,215 11,650 29,212	13 110 339 11,301 2,365 14,624	0. 1 1. 0 5. 1 16. 6 7. 3 69. 9	0.3 2.7 8.2 31.5 57.3	64, 818 635, 926 2, 987, 840 11, 937, 310 5, 382, 785 71, 381, 967 287, 045, 832	31, 469 201, 776 956, 733 14, 130, 621 4, 235, 498	0. 1 0. 7 3. 2 12. 9 5. 8 77. 3	0. 3 2. 1 10. 0 43. 2 44. 3	37, 753 387, 558 1, 788, 220 6, 327, 256 3, 053, 925 28, 253, 985	23, 279 124, 754 487, 769 11, 911, 835 2, 549, 285	0.1 1.0 4.5 15.9 7.7 70.9	0.5 2.4 9.6 37.5
Lace than \$100 000	3 10	10	6.8	25. 6 25. 6	27 462	82 11,502	0.1	0.6	153 212	76,154,488 321,609 1,800,635	0.1 0.9	0.4	88,606,871 47,699 868,042	25, 283, 166 129, 428	0.1	0.5 9.3
\$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	3 28	7 12	6.8 63.6	17. 9 30. 8	275 28,448	13,040	0. 9 97. 4	89. 2	2,594,485 2,443,057 281,855,078	5,014,859 69,017,385	0.9 0.9 98.2	2.4 6.6 90.6	910,785 86,780,345	1 2,357,370 22,796,368	1.0 1.0 97.9	9.3
BOOTS AND SHOES, NOT INCLUDING RUBBER BOOTS AND SHOES	60	62	100.0	100.0	14,092	14,461	100, 0	100.0	71, 354, 850	32,773,922	100.0	100.0	30, 552, 366	13,526,326	100.0	100.0
Less than \$20,000	6 9 13 26	6 11 28 7 10	10.0 10.0 15.0 21.7 43.3	9.7 17.7 45.2 11.3 16.1	28 167 666 1,833 11,398	43 304 16,418 7,696	0. 2 1. 2 4. 7 13. 0 80. 9	0.3 2.1 44.4 53.2	61,166 268,943 3,085,892 9,221,779 58,717,070	31,126 452,826 9,627,797 4,725,193 17,936,980	0.1 0.4 4.3 12.9 82.3	0.1 1.4 29.4 14.4 54.7	38, 190 150, 815 1,067, 316 3, 874, 285 25, 421, 760	19,723 216,611 16,295,662 6,994,330	0. 1 0. 5 3. 5 12. 7 83. 2	0.1 1.8 46.5 51.7
Brass, bronze, and copper products	92	84	100.0	100.0	4,264	2,277	100.0	100.0	27,801,760	7,843,092	100.0	100.0	11,624,227	3,653,547	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.	5 15 30 28 8 6	13 23 31 * 17	5. 4 16. 3 32. 6 30. 4 8. 7 6. 5	15. 5 27. 4 36. 0 20. 2	1 38 265 899 841 2,220	13 100 423 *1,741	(2) 0.9 6.2 21.1 19.7 52.1	0.6 4.4 18.6 76.5	14,274 161,315 1,523,983 6,246,828 5,625,350 14,230,010	33, 455 252, 175 1, 457, 952 8 6, 099, 510	0. 1 0. 6 5. 5 22. 5 20. 2 51. 2	0. 4 3. 2 18. 6 77. 8	8,586 98,369 635,482 2,534,843 1,845,513 6,501,434	7,089 136,408 591,493 2,918,557	0. 1 0. 8 5. 5 21. 8 15. 9 55. 9	0.2 3.7 16.2 79.9
Bread and other bakery products	1,621	1,634	100.0	100.0	9,091	7,665	100.0	100.0	78, 819, 001	30,560,881	100.0	100.0	28, 863, 456	13,265,708	100.0	100.0
Less than \$5,000	209 765 523 92 21 11	608 781 192 46 7	12.9 47.2 32.3 5.7 1.3 0.7	37. 2 47. 8 11. 8 2. 8 0. 4	64 1,015 2,514 2,075 1,666 1,757	1,933 1,806 13,482	0.7 11.2 27.7 22.8 18.3 19.3	5. 8 25. 2 23. 6 45. 4	587,877 8,550,363 21,035,602 18,183,397 15,452,597 15,009,165	1,800,731 7,499,783 6,997,065 9,463,665 4,799,637	0.7 10.8 26.7 23.1 19.6 19.0	5. 9 24. 5 22. 9 31. 0 15. 7	232, 790 3, 135, 022 7, 069, 242 6, 260, 000 6, 160, 345 6, 006, 057	813, 222 3,357,491 2,777,910 16,317,085	0.8 10.9 24.5 21.7 21.3 20.8	6.1 25.3 20.9 47.6
Brick and tile, terra-cotta and fire-clay products.	341	450	100.0	100. 0	12,060	16,238	100.0	100.0	32, 172, 576	23, 375, 689	100.0	100.0	22,211,905	16, 167, 536	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 and over.	41 95 97 100 8	145 117 120 64 4	12.0 27.9 28.4 29.3 2.3	32. 2 26. 0 26. 7 14. 2 0. 9	61 407 2,571 7,093 1,928	335 1,043 4,889 19,971	0.5 3.4 21.3 58.8 16.0	2.1 6.4 30.1 61.4	116,206 888,237 5,137,021 20,161,059 5,870,053	381, 164 1, 153, 669 6, 397, 273 12, 222, 107 3, 221, 476	0.4 2.8 16.0 62.7 18.2	1.6 4.9 27.4 52.3 13.8	84, 339 628, 248 3, 430, 454 14, 016, 304 4, 052, 560	289,012 878,623 4,498,757 10,501,144	0. 4 2. 8 15. 4 63. 1 18. 2	1.8 5.4 27.8 65.0
BUTTER		143	3.5	100.0	1,362	1,099	100.0	100.0	41,061,993	14,938,608	100.0	100.0	6,334,790	2, 519, 943	100.0	100,0
\$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.	5 12 54 47 14 9	31 69 29 4 5	8.5 38.3 33.3 9.9 6.4	6. 3 21. 7 48. 3 20. 3 3. 5	2 8 162 465 337 388	5 43 247 \$804	0.1 0.6 11.9 34.1 24.7 28.5	0.5 3.9 22.5 73.2	13, 162 156, 662 3,090, 291 10, 774, 530 11, 194, 827 15, 832, 221	30, 811 425, 126 3, 199, 553 6, 724, 838 44, 558, 280	0. 4 7. 5 26. 2 27. 3 38. 6	0. 2 2. 8 21. 4 45. 0 30. 5	1,626 25,079 429,848 1,307,184 1,725,404 2,845,649	5,833 90,942 465,447 *1,957,721	0.4 6.8 20.6 27.2 44.9	0.2 3.6 18.5 77.7
CARS AND GENERAL SHOP CONSTRUCTION AND REPAIRS BY STEAM - RAILROAD COMPANIES	117	88	100.0	100.0	35, 245	21,639	100.0	100.0	96, 483, 946	33,286,205	100.0	100.0	50, 893, 898	17, 232, 484	100.0	100.0
Less than \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	7 14 47 18 31	5 29 38 16 5	6. 0 12. 0 40. 2 15. 4 26. 5	33. 0 43. 2 18. 2 5. 7	46 360 5,731 5,362 23,746	61,193 113,798 6,648	0. 1 1. 0 16. 3 15. 2 67. 4	5. 5 63. 8 30. 7	103, 797 819, 163 13, 474, 148 13, 168, 050 68, 918, 788	6 1,559,199 9,981,098 10,166,151 11,579,757	0.1 0.8 14.0 13.6 71.4	4. 7 30. 0 30. 5 34. 8	66, 401 613, 404 9,617,031 8,297,646 38,299,416	5 984,916 10,769,600 5,477,968	0.1 1.1 16.9 14.6 67.3	5.7 62.5
CHEMICALS	37	29	100.0	100.0	3,670	2,017	100.0	100.0	32,719,466	11,388,140	100.0	100.0	17,423,937	4,662,147		100.0
Less than \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	7 19 5 6	1 14 1 10 5	18. 9 51. 4 13. 5 16. 2	48.3 34.5 17.2	46 446 425 2,753	1 275 1,668	1.3 12.2 11.6 75.0	3. 7 13. 6 82. 7	304, 301 4, 715, 279 3, 295, 555 24, 404, 331	365,500 12,585,756 8,436,884	0. 9 14. 4 10. 1 74. 6	3. 2 22. 7 74. 1	205, 996 2, 558, 083 2, 153, 236 12, 506, 622	203,340 1 899,744 3,556,063	1. 2 14. 7 12. 4 71. 8	4.4 19.3 76.3

Includes the group "\$1,000,000 and over." Includes the group "\$5,000 to \$20,000."

¹ Includes the group "\$500,000 to \$1,000,000."

Less than one-tenth of 1 per cent.

Includes the groups "\$500,600 to \$1,000,000," and "\$1,000,000 and over."

Table 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914—Con.

	E		SER OF SHMENT	s.		RAGE N			VAI	UE OF PRODU	jcts.		VALUE AD	DED BY MAN	UFACTU	RE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914	Per e distrib		1919	1914	Per distrik	cent oution.	1919	1914	Per distrib		1919	1914	Per distrib	cent ution.
	1010	1011	1919	1914			1919	1914			1919	1914			1919	1914
CLOTHING, MEN'S	246	224	100.0	100.0	9,939	8,691	100.0	100.0	\$58, 169, 320	\$24,063,468	100.0	100.0	\$28,098,699		100.0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$100,000 \$500,000 to \$1,000,000 \$1,000,000 and over.	35 56 68 55 18 14	71 56 48 39 2 10	14. 2 22. 8 27. 6 22. 4 7. 3 5. 7	31. 7 25. 0 21. 4 17. 4 4. 5	61 512 1,044 2,340 1,853 4,129	358 953 1,566 15,814	0.6 5.2 10.5 23.5 18.6 41.5	4.1 11.0 18.0 66.9	104, 501 636, 996 3, 094, 640 12, 582, 345 13, 075, 534 28, 675, 304	164, 831 553, 200 2, 565, 695 9, 440, 715 2 11, 339, 027	0. 2 1. 1 5. 3 21. 6 22. 5 49. 3	0.7 2.3 10.7 39.2 47.1	93,632 571,646 1,799,142 5,600,853 6,436,250 13,597,176	151,718 467,672 1,414,881 110,036,944	0.3 2.0 6.4 19.9 22.9 48.4	1.3 3.9 11.7 83.1
CLOTHING, WOMEN'S	1	170	100, 0	100.0	8,258	9,775	100.0	100.0	48,703,704	22,881,753	100.0	100.0	22,626,684	10,791,914	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.	16	38 29 56 37 6 4	6.3 16.6 30.9 31.4 9.1 5.7	22. 4 17. 1 32. 9 21. 8 3. 5 2. 4	11 182 966 2,248 1,652 3,199	121 211 1,413 25,658 2,372	0.1 2.2 11.7 27.2 20.0 38.7	1.2 2.2 14.5 57.9	28,756 339,567 3,252,778 13,534,158 10,571,574 20,976,871	87, 497 310, 333 3, 063, 293 7, 921, 178 4, 076, 796 7, 422, 656	0.1 0.7 6.7 27.8 21.7 43.1	0. 4 1. 4 13. 4 34. 6 17. 8 32. 4	23, 658 253, 291 1, 698, 086 5, 348, 642 4, 974, 859 10, 328, 148	76,978 193,533 1,412,576 5,528,331 3,580,496	0.1 1.1 7.5 23.6 22.0 45.6	0.5 1.8 13.1 51.5
COFFEE AND SPICE, EOASTING AND GRINDING	43	35	100.0	100.0	1,088	822	100.0	100.0	29,271,332	13, 312, 493	100.0	100.0	6, 394, 431	3,128,109	100.0	100.0
\$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	5 8 16 4 10	47 10 9 5 4	11.6 18.6 37.2 9.3 23.3	20. 0 28. 6 25. 7 14. 3 11. 4	3 40 140 123 782	4 14 52 8 431 325	0.3 3.7 12.9 11.3 71.9	1.7 6.3 52.4 39.5	59, 701 608, 099 3, 746, 908 3, 001, 968 21, 854, 656	4 58, 351 559, 877 2, 248, 075 2, 947, 467 7, 498, 723	0. 2 2, 1 12. 8 10. 3 74. 7	0. 4 4. 2 16. 9 22. 1 56. 3	19,564 135,574 886,007 546,989 4,806,297	18,735 162,226 1,096,610 1,850,538	0.3 2.1 13.9 8.6 75.2	0.6 5.2 35.1 59.2
CONFECTIONERY AND ICE CREAM ⁵	380	292	100.0	100.0	5,451	3,965	100.0	100.0	39,185,084	14,341,668	100.0	100.0	17, 363, 305	5,979,028	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.	82 120 97 58 15	95 93 74 24 6	21. 6 31. 6 25. 5 15. 3 3. 9 2. 1	32. 5 31. 8 25. 3 8. 2 2. 1	38 188 624 1,960 1,486 1,155	99 272 1,030 3 2,564	0.7 3.4 11,4 36.0 27.3 21.2	26.0 64.7	198, 836 1, 244, 510 4, 546, 851 12, 806, 924 9, 432, 230 10, 895, 733	261, 409 948, 376 3, 589, 453 5, 589, 586 3, 952, 844	0.5 3.2 11.6 32.8 24.1 27.8	1.8 6.6 25.0 39.0 27.6	94, 225 557, 352 1, 809, 585 5, 476, 170 4, 100, 487 5, 325, 486	131,888 429,149 1,507,797 3,910,194	0. 5 3. 2 10. 4 31. 5 23. 6 30. 7	25.
ELECTRICAL MACHIN- ERY, APPARATUS, AND SUPPLIES	189	119	100.0	100.0	26,672	12,695	100.0	100.0	156, 924, 143	36, 120, 978		100.0	84, 626, 936		=	
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 30 49 57 13 27	22 22 32 27 6 10	6. 9 15. 9 25. 9 30. 2 6. 9 14. 3	18.5 18.5 26.9 22.7 5.0 8.4	20 86 641 3,160 2,213 20,552	35 101 572 3,995 7,992	0.1 0.3 2.4 11.8 8.3 77.1	0.8 4.5 31.5	36, 224 327, 750 2, 543, 258 13, 617, 482 9, 369, 538 131, 029, 891	60,755 231,162 1,604,114 6,007,870 3,685,727 24,531,350	(6) 0.2 1.6 8.7 6.0 83.5	0. 2 0. 6 4. 4 16. 6 10. 2 67. 9	1,359,159 7,882,116	29, 286 139, 649 865, 200 \$ 5, 578, 597 12, 025, 998	0.2 1.6 9.3 6.0	4. 29.
ENGINES, STEAM, GAS, AND WATER	 	47	100.0	100.0	6,218	2,962	100.0	100.0	42,850,677	6,861,351	100.0	100.0	22, 506, 896	4, 024, 147	100.0	100.
Less than \$20,000		11 19 117		23. 4 40. 4 36, 2	15 195 567 819 4,622	47 474 12,441	0.2 3.1 9.1 13.2 74.3	16. 0 82. 4	61,995 605,948 2,489,161 4,320,338 35,373,235	105, 372 1, 080, 294 1 5, 675, 685	0. 1 1. 4 5. 8 10. 1 82. 5	1. 5 15. 7 82. 7	350, 122	618,085 13,348,801	1.6	15, 83,
FLOUR-MILL AND GRISTMILL PRODUCTS		649	100.0	100.0	2,122	2,363	100.0	100.0	89, 396, 619	45, 171, 200	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	. 121 289 103 9	61 239 279 56 5	5. 9 21. 0 50. 1 17. 9 1. 6 3. 6	9. 4 36, 8 43. 0 8. 6 0, 8 1. 4	8 67 557 584 127 779	32 290 870 8 659	0. 4 3. 2 26. 2 27. 5 6. 0 36. 7	12.3 36.8 27.9	96,029 1,528,246 14,233,331 18,810,440 6,464,333 48,264,240	178, 668 2, 920, 130 12, 458, 066 11, 136, 893 3, 385, 544 15, 091, 899	0.1 1.7 15.9 21.0 7.2 54.0	0. 4 6. 5 27. 6 24. 7 7. 5 33. 4	2,274,711 2,777,662 761,908	532,354 2,125,091 1,900,130	6.2	8. 34. 30.
FOUNDRY AND MA- CHINE-SHOP PROD- UCTS?	. 1	992	100.0	100.0	87, 803	51, 553	100.0	100.0	425, 497, 682	122, 816, 681	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.	309 306 96	44	11. 1 18. 2 26. 6 26. 3 8. 3 9. 5	17.1 25.7 30.3 21.0 4.4 1.4	108 912 4,439 17,248 14,093 51,003	221 1,354 6,977 33,626 9,375	0.1 1.0 5.1 19.6 16.1 58.1	2.6 13.5 65,2	327, 962 3, 443, 942 15, 882, 036 71, 861, 387 68, 445, 520 265, 536, 835	2, 832, 314 14, 420, 159 45, 819, 951 33, 017, 377 26, 288, 762	0.8 3.7 16.9 16.1 62.4	0. 4 2. 3 11. 7 37. 3 26. 9 21. 4	2, 169, 798 10, 047, 255 43, 017, 262 40, 023, 352 155, 328, 891	1,905,927 8,591,087 345,151,249 16,518,871	17. 2 16. 0 61. 9	2. 11. 62. 22.
FURNITURE		_	100.0	100.0	8,346	7,750			35, 224, 313 32, 565	16,411,298 87,011		0.5	20, 128			
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	25 44 64 8	50 78 2 44	10. 5 15. 4 27. 2 39. 5 4. 9 2, 5	37.3	10 103 728 3,838 1,267 2,400	39 308 1,991 25,412	8.7	4. 0 25. 7 69. 8	296, 685 2, 441, 748 14, 981, 109 5, 783, 390 11, 688, 816	550, 283 3, 786, 771	0.8	3. 4 23. 1 73. 0	176, 547 1, 353, 420 8, 283, 807 3, 456, 300	333,215 2,061,218 26,667,148	16.7	3. 22. 73.
GLASS		39	100.0	100.0	10,935	10,997	100.0		35, 240, 877	19, 191, 342		_				100.
\$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	26	- 9	59. 1 15. 9	10. 3 56. 4 23. 1 10. 3	2,872 2,300 5,763	113 37,405 3,479	26.3 21.0		7,777,398 5,377,824 22,085,655 Includes	8,000,229	22. 1 15. 3 62. 7	27. 2	5, 273, 908 3, 641, 493	175,671 7,034,747 4,935,247	23. 3	57.

¹ Includes the groups '\$500,000 to \$1,000,000,' and "\$1,000,000 and over."
2 Includes the group '\$500,000 and over."
3 Includes the group '\$500,000 to \$1,000,000."
4 Includes the group "Less than \$5,000."

7. **.**

⁵ Includes "chewing gum." in 1914. ⁶ Less than one-tenth of 1 per cent. ⁷ Includes "fron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks, portable."

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914—Con.

TABLE 12.—SIZE OF	. — . I				1	1211101	- OF	110	1	W BELEO	1.1217	INDU	BIRIES:	rata WND	1914-	-Con,
	E		BER OF ISHMEN			WAGE EA			VA	LUE OF PROD	UCTS.		VALUE AD	DED BY MAS	UFACTI	JRE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914		cent oution.	1919	1914		cent bution.	1919	1914		cent oution.	1919	1914	Per distrib	cent oution
			1919	1914			1919	1914			1919	1914			1919	1914
IRON AND STEEL, BLAST FURNACES	42	33	100.0	100.0	9,793	5,786	100.0	100.0	\$179, 233, 43 5	\$72,969,368	100.0	100.0	\$41,547,328	\$12,230,844	100.0	100.0
Less than \$500,000	6 4 32	8 8 17	14. 3 9. 5 76. 2	24. 2 24. 2 51. 5	251 270 9, 272	1 1, 112 4,674	2.6 2.8 94.7	19. 2	2,071,580 2,451,245 174,710,610	1,875,855 6,187,196 64,906,317	1, 2 1, 4 97, 5	2. 6 8. 5 88. 9	516, 418 573, 948 40, 456, 962	11, 180, 542	1. 2 1. 4 97. 4	8. (
Iron and steel, steel works and rolling mills.	86	70	100.0	100.0	73,025	46, 397	100.0	100.0	626, 370, 025	205, 023, 391	100,0	100.0	245, 310, 352	65,346,900	100.0	100,
Less than \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	3 7 69	5 15 8 42	3. 5 8. 1 8. 1 80. 2	7. 1 21. 4 11. 4 60. 0	31 474 1,035 71,485	131 1 4,736 41,530	(2) 0.6 1.4 97.9	0.3 10.2 89.5	155,673 1,946,017 4,920,388 619,347,947	179, 847 6, 912, 871 6, 255, 711 191, 674, 962	(2) 0.3 0.8 98.9	0. 1 3. 4 3. 1 93. 5	85, 988 929, 217 2, 712, 649 241, 582, 498	100, 028 1 5, 617, 159 59, 629, 713	(2) 0.4 1,1 98,5	0.: 8.: 91.:
LEATHER, TANNED, CURRIED, AND FIN- ISHED	24	28	100.0	100.0	1, 565	1, 605	100.0	100.0	25, 008, 070	11, 627, 916	100.0	100.0	6, 190, 279	3, 121, 663	100.0	100.
\$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 6 10 3 5	3 5 4 13 6 6	25. 0 41. 7 12. 5 20. 8	17. 9 14. 3 46. 4 21. 4	3 40 221 222 1, 082	³ 13 25 4 1, 567	2.6 14.1 14.2 69.1	0. 8 1. 6 97. 6	3 202, 317 3, 016, 681 2, 356, 136 19, 432, 936	³ 46, 558 135, 820 3, 224, 167 ⁶ 8, 221, 371	0.8 12.1 9.4 77.7	0.4 1.2 27.7 70.7	\$ 73,715 762,323 1,022,635 4,331,606	³ 8, 599 74, 788 4 3, 038, 270	1. 2 12. 3 16. 5 70. 0	0.: 2. 97.:
Liquors, Malt	73	101	100.0	3.0	3, 327	5,340 2	100.0	100.0	25, 161, 227	31, 990, 274	100.0	100.0	18, 065, 655	22, 799, 792	100.0	100.
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$5,000 \$500,000 to \$1,000,000 \$1,000,000 and over	3 4 22 32 10 5	26 51 10 7	5.5 30.1 43.8 13.7 6.8	4. 0 25. 7 50. 5 9. 9 6. 9	2 12 268 1,200 999 848	17 344 1 3, 132 1, 845	0. 4 8. 1 36. 1 30. 0 25. 5	0.3 6.4 58.7	* 45,241 1,318,590 8,488,862 7,180,538 8,127,996	5,047 49,665 1,390,076 11,593,933 6,722,424 12,229,129	0.2 5.2 33.7 28.5 32.3	0. 2 4. 3 36. 2 21. 0 38. 2	* 26, 683 852, 389 6, 000, 628 5, 178, 411 6, 007, 544	3, 299 35, 023 895, 955 13, 189, 816 8, 675, 699	0.1 4.7 33.2 28.7 33.3	(2) 0.5 3.9 57.9
Lumber, Planing- Mill products, not including planing Mills connected with sawmills	378	400	100.0	100.0	4,495	5, 516	100.0	100.0	32, 428 847	18, 892, 060	100.0	100.0	12, 076, 704	7, 490, 163	100.0	100.(
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 and over.	62 107 131 66 8	86 130 125 1 59	16. 4 28. 3 34. 7 17. 5 2. 1 1. 1	21.5 32.5 31.2 14.8	48 257 1,149 1,794 595 652	102 526 1,801 13,087	1.1 5.7 25.6 39.9 13.2 14.5	1.8 9.5 32.7 56.0	158, 381 1, 157, 665 6, 242, 802 13, 744, 438 5, 680, 119 5, 445, 442	215,778 1,423,433 5,628,447 111,624,402	0.5 3.6 19.3 42.4 17.5 16.8	1.1 7.5 29.8 61.5	84, 942 571, 589 2, 643, 239 5, 098, 420 1, 861, 944 1, 816, 570	103, 396 690, 951 2, 229, 538 1 4, 466, 278	0.7 4.7 21.9 42.2 15.4 15.0	1, 4 9, 2 29, 8 59, 6
PAINTS	61	65	100.0	100.0	2, 197	1,697	100.0	100.0	36, 848, 364	14, 824, 073	100.0	100.0	13, 250, 596	5, 915, 465	100.0	100.0
Less than \$5,000 \$20,000 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 7 19 19 8 8	9 16 17 16 5 7	11.5 31.1 31.1 13.1 13.1	13.8 24.6 26.2 24.6 10.8	3 10 72 255 266 1,594	5 28 137 41,527	0.5 3.3 11.6 12.1 72.6	0.3 1.6 8.1 90.0	887, 331 994, 744 4, 461, 565 5, 467, 159 25, 837, 565	23, 741 186, 830 981, 081 4, 086, 748 9, 545, 673	0. 2 2. 7 12. 1 14. 8 70. 1	0. 2 1. 3 6. 6 27. 6 64. 4	3 37, 878 371, 622 1, 789, 911 1, 769, 528 9, 281, 657	10, 024 82, 045 410, 887 4 5, 412, 509	0.3 2.8 13.5 13.4 70.0	0.5 1.4 6.9 91.4
Pottery	95	99	100.0	100.0	11, 339	11,096	100.0	100.0	28, 675, 361	15, 291, 685	100.0	100.0	19, 662, 920	10, 323, 883	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 and over	3 6 19 50 17	12 17 21 45 4	3. 2 6. 3 20. 0 52. 6 17. 9	12.1 17.2 21.2 45.5 4.0	3 15 623 5, 552 5, 146	28 164 985 1 9, 919	(2) 0.1 5.5 49.0 45.4	0.3 1.5 8.9 89.4	8, 284 57, 327 1, 063, 560 13, 075, 194 14, 470, 996	42, 336 281, 072 1, 093, 520 10, 857, 570 3, 017, 187	(2) 0. 2 3. 7 45. 6 50. 5	0.3 1.8 7.2 71.0 19.7	6, 163 40, 294 717, 064 8, 954, 913 9, 944, 486	30, 625 233, 773 704, 292 1 9, 355, 193	(3) 0, 2 3, 6 45, 5 50, 6	0.3 2.3 6.8 90.6
PRINTING AND PUB- LISHING, BOOK AND JOB	871	772	100.0	100.0	8, 505	7,978	100.0	100.0	39, 201, 684	19, 915, 250	100.0	100.0	24, 019, 764	13, 004, 041	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 and over.	257 312 218 68 16	328 261 145 35 3	29. 5 35. 8 25. 0 7. 8 1. 8	42.5 33.8 18.8 4.5 0.4	132 867 2, 427 2, 757 2, 322	320 1,184 2,642 43,832	1.6 10.2 28.5 32.4 27.3	4. 0 14. 8 33. 1 48. 0	652, 892 3, 371, 085 10, 285, 545 12, 936, 826 11, 955, 336	797, 989 2, 556, 193 6, 227, 691 7, 303, 019 3, 030, 358	1.7 8.6 26.2 33.0 30.5	4. 0 12. 8 31. 3 36. 7 15. 2	437, 442 2, 195, 950 6, 550, 899 8, 106, 850 6, 728, 623	576, 834 1, 831, 582 4, 210, 884 4 6, 384, 741	1.8 9.1 27.3 33.8 28.0	4. 4 14. 1 32. 4 49. 1
PRINTING AND PUB- LISHING, NEWS- PAPERS AND PERIOD- ICALS	794	901	100.0	100.0	7,627	7,274	100.0	100.0	58, 567, 435	28, 023, 290	100.0	100.0	40, 125, 410	20, 250, 724	100.0	100, (
Lass 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.	282 294 154 42 10 12	480 245 136 29 5 6	35. 5 37. 0 19. 4 5. 3 1. 3	53.3 27.2 15.1 3.2 0.6 0.7	222 730 1,587 1,452 919 2,717	658 1,062 1,822 1 2,160 1,572	2. 9 9. 6 20. 8 19. 0 12. 0 35. 6	9. 0 14. 6 25. 0 29. 7	787, 922 2, 834, 544 6, 785, 644 9, 270, 247 6, 486, 157 32, 402, 921	1, 244, 041 2, 329, 110 5, 382, 925 6, 127, 845 3, 572, 352 9, 367, 017	1.3 4.8 11.6 15.8 11.1 55.3	4. 4 8. 3 19. 2 21. 9 12. 7 33. 4	628, 226 2, 232, 647 5, 197, 844 6, 904, 932 4, 543, 208 20, 618, 553	1, 018, 504 1, 899, 411 4, 245, 301 1 6, 846, 354 6, 241, 154	1.6 5.6 13.0 17.2 11.3 51.4	5. 6 9. 4 21. 6 33. 8
RUBBERTIRES, TUBES, AND RUBBER GOODS, NOT ELSEWHERE SPECIFIED	96	54	100.0	100. Q	63, 637	21, 705	100.0	100 0	551, 118, 488	109, 658, 605	100.0	100.0	251, 755, 957	50, 921, 129	100.0	100.
Less than \$20,000	11 23 22 6 34	10 16 10 7 11	11. 5 24. 0 22. 9 6. 3 35. 4	18. 5 29. 6 18. 5 13. 0 20. 4	540	27 242 11,656	0.1 0.5 1.2 0.8 97.4	0.1 1.1 7.6	123, 399 1, 112, 904 3, 735, 493 4, 856, 505 541, 290, 187	54,746 668,260 2,604,061 4,346,805 101,984,733	(2) 0.2 0.7 0.9 98.2	(2) 0. 6 2. 4 4. 0 93. 0	69, 828 350, 337	32, 061 314, 080 1 3, 213, 167	(2) 0.1 0.7 0.8 98.3	0. I 0. 6 6. 3

¹ Includes the group "\$500,000 to \$1,000,000."
2 Less than one-tenth of 1 per cent.
3 Includes the group "Less than \$5,000."

 $^{^4}$ Includes the groups ''\$500,000 to \$1,000,000,'' and ''\$1,000,000 and over.'' 8 Includes the group ''\$1,000,000 and over.''

Table 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914—Con.

	E		SER OF SHMENT	'S.		RAGE NU		OF	VAI	UE OF PROD	UCTS.		VALUE ADI	DED BY MAN	UFACTI	JRE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914	Per distrib		1919	1914	Per o distrib		1919	1914	Per distrib	cent ution.	1919	1914	Per distrib	
			1919	1914			1919	1914			1919	1914			0.1 2.0 6.8 8.4 82.7 100.0 0.3 3.8 30.4 16.0 100.0	1914
SLAUGHTERING AND MEAT FACKING	141	152	100. 0	100.0	5, 336	3, 480	100.0	100.0	\$170, 337, 892	\$ 64, 960, 396	100.0	100.0	\$19, 739, 453	\$ 6,663,426	100.0	100.0
Less than \$20,000 \$23,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over.	11 34 40 20 30	22 53 47 12 18	7.8 24.1 32.6 14.2 21.3	14.5 34.9 30.9 7.9 11.8	3 112 345 442 4,434	13 161 1 909 2, 397	0.1 2.1 6.5 8.3 83.1	0. 4 4. 6 26. 1	127, 497 2, 101, 333 11, 253, 554 13, 833, 200 143, 022, 308	254, 033 2, 689, 301 10, 488, 551 8, 843, 634 42, 684, 877	0.1 1.2 6.6 8.1 84.0	0. 4 4. 1 16. 1 13. 6 65. 7	22,848 393,657 1,347,717 1,050,466 16,324,765	42, 037 368, 089 12, 283, 864 3, 969, 436	2.0 6.8 8.4	0. 6 5. 5 34. 3
STOVES AND HOT-AIR FURNACES	67	79	100.0	100.0	6,069	5,041	100.0	100.0	25, 009, 260	9,990,696	100.0	100.0	14, 212, 357	6, 487, 997	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 7 18 29 6 7	5 10 35 3 29	10. 4 26. 9 43. 3 9. 0 10. 4	6.3 12.7 44.3 36.7	2 8 191 1,836 880 3,154	11 50 735 8 4, 245	0.1 3.1 30.3 14.5 52.0	0.2 1.0 14.6 84.2	* 53, 842 1, 060, 047 7, 698, 426 3, 739, 442 12, 457, 503	15, 138 116, 449 1, 864, 121 \$7, 994, 988	0.2 4.2 30.8 15.0 49.8	0.2 1.2 18.7 80.0	2 41, 773 539, 535 4, 325, 385 2, 207, 634 7, 038, 030	4, 240 70, 512 1, 122, 134 5, 291, 111	3.8 30.4 16.0	81.6
STRUCTURAL IRON- WORK, NOT MADE IN STEEL WORKS OR ROLLLING MILLS	93	93	100.0	100.0	5, 231	6, 657	100.0	100.0	41, 792, 720	22, 615, 795	100.0	100.0	17, 021, 788	10,011,491	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 19 32 25 10 7	13 13 31 23 8 5	20.4 34.4 26.9 10.8 7.5	14.0 14.0 33.3 24.7 8.6 5.4	2 48 334 1, 130 1, 075 2, 644	14 62 507 13,234 2,840	0.9 6.4 21.6 20.6 50.5	0.2 0.9 7.6 48.6	2 189, 844 1, 716, 275 7, 008, 661 7, 371, 448 25, 506, 492	35, 226 144, 511 1, 511, 083 5, 780, 385 4, 974, 830 10, 169, 760	0.5 4.1 16.8 17.6 61.0	0. 2 0. 6 6. 7 25. 6 22. 0 45. 0	* 110, 266 889, 026 3, 149, 842 3, 359, 294 9, 513, 360	18,379 77,444 780,750 14,451,015 4,683,903	0.6 5.2 18.5 19.7 55.9	0.2 0.8 7.8 41.5
TOBACCO, CIGARS AND CIGARETTES	676	937	100.0	100.0	10,995	12, 025	100.0	100.0	28, 854, 444	17, 238, 751	100.0	100.0	15, 738, 813	10, 110, 233	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 and over.	381 157 76 49 13	667 171 57 3 42	56.4 23.2 11.2 7.2 1.9	71.2 18.2 6.1 4.5	149 520 1,464 4,800 4,062	571 1,077 1,954 8 8,423	1.4 4.7 13.3 43.7 36.9	4.7 9.0 16.2 70.0	804, 337 1, 452, 277 3, 508, 211 11, 765, 768 11, 323, 831	1,297,990 1,515,298 2,637,469 111,787,994	2.8 5.0 12.2 40.8 39.2	7.5 8.8 15.3 68.4	460, 610 829, 596 1, 970, 458 6, 254, 374 6, 223, 775	831, 815 928, 585 1, 633, 777 4 6, 656, 056	2.9 5.3 12.5 39.7 39.5	8. 2 9. 8 16. 2 65. 8
Tools, not else- where specified	149	62	100.0	100.0	6,961	2, 227	100.0	100.0	32, 527, 373	5, 187, 996	100.0	100.0	21,791,568	3, 664, 340	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	24 73 27 7	19 25 8 6 10	8.7 16.1 49.0 18.1 4.7 3.4	30. 6 40. 3 12. 9 16. 1	3 88 1,243 1,567 1,032 3,028	26 124 165 5 1,912	(4) 1.3 17.9 22.5 14.8 43.5	1.2 5.6 7.4 85.9	28, 057 278, 935 3, 967, 023 5, 149, 747 4, 747, 260 18, 356, 351	44, 276 265, 740 413, 963 5 4, 464, 017	0.9	0.9 5.1 8.0 86.0	18,570 207,889 3,023,665 3,780,878 2,521,181 12,239,385	208, 576 218, 966	0. 1 1. 0 13. 9 17. 3 11. 6 56. 2	

¹ Includes the group "\$500,000 to \$1,000,000."
2 Includes the group "Less than \$5,000."
3 Includes the groups "\$500,000 to \$1,000,000," and "\$1,000,000 and over."

Less than one-tenth of 1 per cent.
Includes the group "\$1,000,000 and over."

Table 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919.

	r of nents.	WA EARN	GE TERS.	VALUE O		VALUE ADD MANUFACT			r of nents.	WA EARN		VALUE O PRODUCT		VALUE ADD MANUFACT	ED BY
CITY AND VALUE OF PRODUCT.	Number of estublishments	Aver- age num- ber.	Per cent of total.	Amount.	Per cent of total,	Amount.	Per cent of total,	CITY AND VALUE OF PRODUCT.	Number of establishments.	Average num- ber.	Per cent of total.	Amount.	Per cent of total.	837,217 2,637,476 2,789,310 47,229 290,687 520,141 1,931,254 96,530,130 141,199 3,841,161 14,322,244 10,125,589 56,130 173,422 7,610,101 10,426 96,001 527,373 3,012,141 3,964,160 14,963,840 24,099 98,834 404,387 1,409,128 2,296,997 10,730,385 3,096,521 21,846 150,388 366,934 1,322,592 11,234,761 7,477,431 10,110 186,166 548,516 1,058,605 954,530 4,819,504 24,386,589 29,028 191,513 10,106 548,516 1,058,605 954,530 4,819,504 24,386,589 29,228 191,513 575,276 4,363,592 19,224,150 5,235,008 70,686 77,686 7,1686 7,1686 5,235,008 77,686 7,3686 7,576,276 4,363,592 19,224,150 5,235,008 77,686 7,3686 7,576,276 4,363,592 19,224,150 5,235,008	Per cent of total
Akron	304	65, 054	100.0	\$558, 962, 067	100.0	\$ 244, 590, 473	100.0	Совностом	45	1,959	100, 0	\$7,684,762	100.0	\$3,812,093	3 100.0
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	35 71 87 66 19 26	29 189 814 2,775 2,162 59,085	1.3 4.3 3.3		0. 1 0. 7 2. 7 2. 4	2,049,972 7,903,361 7,237,911	(1) 0.2 0.8 3.2 3.0 92.8	Less than \$5,000\$5,000 to \$20,000\$20,000 to \$100,000\$100,000 to \$500,000\$500,000 and over	8 10 11 10 6	6 30 152 440 1,331	0. 3 1. 5 7. 8 22. 5 67. 9	14,653 105,820 592,070 2,180,180 4,792,039	7.7 28.4	48,541 281,375 837,217	1 1.3 5 7.4
Alliance	74	5, 117	100.0	32, 871, 087	100.0	18,081,650	100.0	CUYAHOGA FALLS.	30	784	100, 0	5,829,347			=
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 ² \$1,000,000 and over	10 28 17 12 7	1 43 154 827 4,092	16, 2		0. 1 0. 9 2. 3 10. 2 86. 5	13,810 155,234 389,290 1,665,850 15,857,466	0. 1 0. 9 2. 2 9. 2 87. 7	Less than \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over	10 12 5 3	18 107 218 441 31,131	2. 3 13. 6 27. 8 56. 2	78,495 547,711 1,274,849 3,928,292	21. 9 67. 4	290,687 520,141 1,931,254	7 10.4 1 18.6 4 69.2
ASHTABULA	62	4, 172		23,098,509	100.0		100.0	Less than \$5,000	92	67	0. 2	227,030 11,392,080		141,196	6 0.1
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over.	11 19 15 8 9	10 41 158 514 3,449	0. 2 1. 0 3. 8 12. 3 82. 7	29, 079 183, 201 507, 904 1, 731, 021 20, 647, 304	0. 1 0. 8 2. 2 7. 5 89. 4	18,781 94,306 272,974 940,263 10,803,317	0. 2 0. 8 2. 2 7. 8 89. 1	\$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	127 172 127 27 26	2,046 1,957 6,552 3,423 17,086	6. 6 6. 3 21. 0 11. 0 54. 9	11,392,080 8,901,780 27,438,740 18,839,907 108,191,070	5. 1 15. 7 10. 8	4,857,350 14,322,204 10,125,589	0 5.0 4 14.8 9 10.5
BARBERTON	32	4,762	(1)	27, 713, 226 13, 115	(1)	13,017,487 8,400	0.1	EAST CLEVELAND. \$5,000 to \$20,000	17	88	26.1	420,505			-1
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000	5 7 9	5 62 843	0.1 1.3 17.7	53, 591 355, 827 3, 199, 501	0.2 1.3 11.5	22,213 217,992 2,063,521	0. 2 1. 7 15. 9	\$20,000 to \$100,000 3 EAST LIVERPOOL.	10 7 67	23 65 4,311	73. 9	98,384 322,121 12,501,181	23. 4 76. 6	100	1
\$1,000,000 and over	6 45	3,851 2,277	80. 9 100. 0	24, 091, 192 14, 502, 401	86. 9 100. 0	10, 705, 361 4, 573, 889	82, 2 100, 0	Less than \$5,000	6	6	0.1	16,487	0.1	10,426	0.1
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000	7 14 11	6 44 134 681	0. 3 1. 9 5. 9 29. 9	18, 984 142, 717 556, 616 2, 275, 258 11, 508, 826	0.1 1.0 3.8 15.7	10,536 85,829 287,481 1,206,720	0. 2 1. 9 6. 3 26. 4	\$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over	16 18 21 6	273 1,725 2,270	0.9 6.3 40.0 52.7	181,556 1,057,622 5,130,872 6,114,644	41.0 48.9	527,373 3,012,141 3,964,160	6.9 1 39.6 52.1
\$1,000,000 and over	9	1,412	62.0		79.4	2, 983, 323	65. 2	Less than \$5,000	75	4,590	0, 2	25,191,454	0.1		1
BUCYRUS Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000	43 7 14 7 10	1,861 3 26 55 298	0. 2 1. 4 3. 0 16. 0	8, 435, 746 14, 820 124, 980 343, 173 2, 095, 660	0. 2 1. 5 4. 1 24. 8	4, 034, 817 7, 128 68, 988 152, 554 940, 706	0. 2 1. 7 3. 8 23. 3	\$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	15 21 13 5 7	30 122 800 895 2,735	0. 7 2. 7 17. 4 19. 5 59. 6	35,385 170,355 802,028 3,414,937 4,000,274 16,768,475	0.7	98,834 404,397 1,409,128	0.7 2.7 9.4
\$500,000 and over	5	1,479	79. 5	5, 857, 113	69. 4	2,865,441	71.0	FINDLAY	75	1,715	100.0	7,924,282	100.0		
CAMBRIDGE Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over	32 4 10 11 7	1,782 7 29 95 1,651	0. 4 1. 6 5. 3 92. 6	11, 226, 809 15, 332 127, 923 543, 656 10, 539, 898	0.1 1.1 4.8 93.9	5,373,642 8,295 45,016 189,209 5,131,122	0. 2 0. 8 3. 5 95. 5	Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 2 \$1,000,000 and over	15 25 20 12 3	7 78 174 863 593	0. 4 4. 5 10. 1 50. 3 34. 6	37,531 306,897 841,870 3,124,354 3,613,630	0. 5 3. 9 10. 6 39. 4 45. 6	150,388 366,934 1,322,592	4.9 11.8 42.7
CANTON	287	20, 336	100.0	124, 292, 924	100.0		100.0	FREMONT	53	2,999	100.0	12,915,095	100.0	7,477,431	100.0
Less than \$5,000. \$5,000 to \$20,000 to \$20,000 to \$100,000 to \$100,000 to \$100,000 to \$500,000 \$500,000 to \$1,000,000 and over	48 62 83 57 15 22	14,988	0.1 0.9 4.5 10.9 9.9 73.7	13, 846, 840 10, 010, 824 95, 798, 387	0. 1 0. 6 3. 1 11. 1 8. 1 77. 1	2, 199, 494 6, 754, 362 6, 000, 414 43, 802, 514	0. 1 0. 7 3. 7 11. 4 10. 1 74. 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 12 19 9 3	6 33 239 438 462 1,821	0. 2 1. 1 8. 0 14. 6 15. 4 60. 7	16,602 138,430 986,575 2,029,330 2,186,428 7,557,730	7. BH	86,166 548,516 1,058,605 954,530	1. 2 7. 3 14. 2 12. 8
CHILLICOTHE Less than \$20,000	35 12 17	1,638 30	1.8	7,667,182	100.0	3,326,963 65,085	2. 0	HAMILTON	130		100.0	47, 024, 031	100.0		
\$20,000 to \$100,000 \$100,000 to \$500,000 2 \$1,000,000 and over CINCINNATI	17 3 3 2, 239	203 363 1,042 69,680	12. 4 22. 2 63. 6 100. 0	132, 394 814, 163 1, 486, 305 5, 234, 320 500, 040, 996	10. 6 19. 4 68. 3 100. 0	383, 712 559, 227 2, 318, 939 203, 760, 553	11. 5 16. 8 69. 7	Less than \$5,000	28 34 28 31 9	12 104 262 2,027 6,148	0. 1 1. 2 3. 1 23. 7 71. 9	53, 463 351, 569 1, 314, 403 8, 564, 204 36, 740, 392	0. 1 0. 7 2. 8 18. 2 78. 1	194, 543 575, 276 4, 363, 592	0.8 2.4 17.9
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000	389 573 589	266 1,778 6,455	0. 4 2. 6 9. 3	964, 724 6, 253, 300	0, 2 1. 3 5. 6	654, 872 3, 799, 309 14, 914, 401	0.3 1.9 7.3	IRONTONLess than \$20,000	52 13 18	1,971 26	1.3	14, 071, 850 124, 255	100. 0 0. 9	70, 498	1.3
\$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	469 113 106	19,345 12,050 29,786	9.3 27.8 17.3 42.7	106, 950, 783 77, 034, 741 280, 907, 354	21. 4 15. 4 56. 2	51, 800, 647 34, 640, 039 97, 951, 285	25. 4 17. 0 48. 1	\$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over	18 12 9	359 359 1, 227	18, 2 18, 2 62, 3	875, 275 2, 748, 050 10, 324, 270	6. 2 19. 5 73. 4	1,026,255	19.6
	: <u> </u>	157,730		1,091,577,490	100.0		100.0	KENMORE	7		100.0	844, 303	100.0		
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000	457 773 834	197 1,894 8,182	0. 1 1. 2 5. 2	1,204,212 8,544,281 39,388,368	0. 1 0. 8 3. 6	771,459 5,306,830 22,975,864	0. 2 1. 1 4. 8	Less than \$100,000 \$100,000 to \$500,000	3	11 124	8. 1 91. 9	51, 121 793, 182	6. 1 93. 9	31, 513 208, 409	13, 1 86, 9
\$100,000 to \$500,000 \$500,000 to \$1,000,000 \$1,000,000 and over	510 155	20,306 18,553 108,598	12. 9 11. 8 68. 9	117,880,534 109,852,956 814,707,139	10.8 10.1 74.6	60,367,360 53,982,166 334,724,367	12. 6 11. 3 70. 0	Lakewood	33 12 9	1,821 4 22	0.2	29,409	0.4	18,970	0.5
COLUMBUS	690		100.0	184,021,849	100.0	71,302,610	===	\$5,000 to \$20,000 \$20,000 and over	12	1,795	1. 2 98. 6	7, 462, 595	1.5 98.2	3, 646, 641	97.2
Less than \$5,000	96 213 192 124 33 32	45 583 2,177 5,473 3,853	0. 2 2. 2 8. 1 20. 5 14. 4	263, 072 2,339, 918 9,463, 362 28,391, 762 23, 976, 697 119, 587, 038	0. 1 1. 3 5. 1 15. 4 13. 0	178,138 1,441,752 5,268,852 13,894,614 10,265,557 40,253,697	0. 2 2. 0 7. 4 19. 5 14. 4	Lass than \$5,000. \$5,000 to \$20,000 . \$20,000 to \$100,000 . \$100,000 and over.	43 7 7 16	2, 024 5 20 156	0. 2 1. 0 7. 7	20,727 88,978 697,989	0. 2 0. 8 6. 1		0.3 0.6

¹ Less than one-tenth of 1 per cent.

² Includes the group "\$500,000 to \$1,000,000."

³ Includes the group "\$100,000 to \$500,000."

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919—Continued.

	WAGE VALU		VALUE O		VALUE ADD MANUFACT			of cents.	WAC EARN	ge ers.	VALUE (VALUE ADD MANUFACT		
CITY AND VALUE OF PRODUCT.	Number of establishments.	Average num- ber.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.	CITY AND VALUE OF PRODUCT.	Number o establishmo	Aver- age num- ber.	Per cent of total.	Amount.	DUCTS. MANUFAC Per	Per cent of total.	
LIMA	108	4, 901	100.0	\$23, 638, 764	100.0	\$10,895,473	100.0	PiQua	66	3,293	100.0	\$19,921,345	100. 0	\$8,966,318	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000 ¹ . \$1,000,000 and over	15 34 35 17 7 55	14 122 500 877 3,388 11,677	0.3 2.5 10.2 17.9 69.1 100.0	38, 556 412, 909 1, 891, 400 4, 200, 057 17, 095, 842 116, 908, 616	8.0 17.8 72.3	1,881,364	0. 2 2. 1 9. 0 17. 3 71. 4 100. 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.	12 12 17 13 4 8	153 551 571 1,982	} J	22, 547 128, 001 801, 140 3, 185, 655 3, 036, 093 12, 747, 909	4.0 16.0 15.2 64.0		17. 9 19. 8 57. 5
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000 ¹ . \$1,000,000 and over.	6 12 21 8 8 8 132	22 194 206 11,255 4,711	0. 2 1. 7 1. 8 96. 4 100. 0	14, 966 140, 448 993, 308 1, 734, 744 114, 025, 150 31, 877, 551	0.1 0.8 1.5 97.5	860, 745 49, 528, 350 14, 518, 413	0. 9 1. 7 97. 3 100. 0	PORTSMOUTH Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000 \ \$1,000,000 and over.	8 16 19 12 5	45 203 716 4,950	0. 8 3. 4 12. 1 83. 7	22, 621 205, 586 975, 483 3,171, 312 32,270, 734	0.1 0.6 2.7 8.6 88.1	12,628 107,125 423,622 1,537,897 14,386,708	0. 4 0. 1 2. 7 9. 6 87. 3
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.	26 37 34 23 5 7	21 95 296 1,079 643 2,577 1,285	13. 6 54. 7	62, 323 408, 179 1, 623, 029 5, 670, 152 2, 752, 788 21, 361, 080 5, 917, 469	5. 1 17. 8 8. 6 67. 0	651, 646 2, 648, 127 1, 499, 933 9, 444, 407	0.3 1.6 4.5 18.2 10.3 65.1 100.0	SALEM. Less than \$5,000. \$5,000 to \$20,000 to \$100,000 \$100,000 and over. SANDUSKY	12	24 121 2,089	0. 1 1. 1 5. 4	11, 069, 550 7, 930 119, 006 598, 451 10, 344, 163 19, 248, 571	0.1 1.1 5.4 93.4	4, 582 72, 309 365, 790 6, 406, 268	0.1 1.1 5.3 93.5
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 and over. MARION.	12 13 25 9 70	4, 125	100.0	37, 316 114, 973 1, 096, 915 4, 668, 265 20, 712, 973	1. 9 18. 5 78. 9 100. 0	80, 403 505, 140 2, 477, 856 10, 339, 043	80.8	Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over	22 27 32 23 11	10 75 453 1,005 1,904	0. 3 2, 2 13, 1 29, 2 55, 2	65, 782 303, 041 1, 701, 580 4, 772, 455 12, 405, 713 67, 759, 001	0.3 1.6 8.8 24.8 64.5	43, 278 178, 654 540, 852 2, 364, 552 5, 461, 590	0.5 2.1 6.3 27.5 63.6
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over. MARTINS FERBY.	12 13 26 11 8 40	7 29 338 628 3,123 1,517	15. 2 75. 7	26, 831 140, 609 1, 235, 529 2, 454, 333 16, 855, 671 15, 402, 280	6. 0 11. 8 81. 4 100. 0	1, 186, 091 8, 489, 157 5, 130, 213	5. 5 11. 5 82. 1 100. 0	SPRINGFIELD Less than \$5,000 .	31 56 54 36 15	19 169 622 2,017 1,993	0, 2 1, 4 5, 1 16, 4 16, 3	78, 063 610, 922 2, 758, 494 8, 758, 240	0.1 0.9 4.1 12.9 15.5	49,457 390,980 1,617,480 4,890,803 5,642,623	0.1 1.2 4.8 14.4 16.7
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over. MASSYLLON.	80	59 264 1, 163 2, 153		32, 183 113, 826 239, 738 1, 241, 476 13, 775, 057 13, 984, 871	0. 7 1. 6 8. 1 89. 4 100. 0	51, 063 127, 191 597, 016 4, 335, 842 6, 911, 044	2.5 11.6 84.5	STEUBENVILLE	57 3 19 20	3,855 3,45 146	0.1 1.2 3.8	30, 903, 344 7, 500 222, 309 790, 812	100. 0 (2) 0. 7 2, 6	14, 527, 594 4, 684 96, 300 385, 993	100.0 (2) 0.7 3
Less than \$5,000. \$5,000 to \$20,000 \$20,000 to \$100,000. \$100,000 to \$500,000 to \$100,000 to \$500,000 MIDDLETOWN.	18 22 17 19 4 56	12 42 100 860 1,139 6,442	0.6 2.0 4.6 39.9 52.9 100.0	49, 295 227, 641 607, 730 5, 137, 635 7, 962, 570 62, 838, 289	36. 7 56. 9	293, 510 2, 704, 554	2. 0 4. 2 39. 1 54. 2	Tiffin		2, 213	0. 5 2. 9 8. 7 22. 8	10, 516, 369 46, 254 216, 338 1, 183, 842 2, 769, 971	100. 0 0, 4 2, 1 11. 3 26. 3	5,765,895 26,977 129,937 492,834 1,163,557	100.0 0.5 2.3 8.4 7 20.5
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 NEW PHILADEL-	9 15 10 4 10 43	149 270 316	0.5 2.3 4.2 4.9 88.1	9, 363 109, 068 868, 160 1, 895, 606 2, 756, 233 57, 199, 659 8, 445, 658	0. 2 I. 4 3. 0 4. 4 91. 0	51, 438 453, 349 730, 585 1, 070, 486 24, 840, 667	0.2 1.7 2.7 3.9 91.5	\$500,000 and over TOLEDO	671 97 161	1,442 42,090 43 393	100.0 0.1 0.9 4.8	293, 520, 900 245, 628 1, 811, 563 9, 680, 995	100. 0 0. 1 0. 6	120, 233, 281 154, 005 1, 084, 002 5, 148, 494	1 100. 0 5 0. 1 2 0. 9 4 4. 3
PHIA. Less than \$5,000. \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over. NEWARK.	13 15 10 5 79	1,125	. :	41, 181 155, 462 386, 855 7, 862, 160 16, 563, 149	4.6 93.1	25, 565 94, 558 237, 112 3, 236, 750 8, 291, 523	90.1	\$100,000 to \$500,000. \$500,000 to \$1,000,000 \$1,000,000 and over WARREN Less than \$5,000.	131 30 53 96 22 27	3, 162 30, 095 2, 433	7.5 71.5 100.0	19, 747, 395 40, 710	7. 1 78. 8 100. 0	8,812,183 90,231,674 7,816,812 24,191	75. 2 100.
Less than \$5,000\$,000 to \$20,000\$20,000 to \$100,000\$100,000 to \$100,000 to \$500,000\$500,000 to \$1,000,000 and over\$	12 20 24 16 3 4	295 674 221 3,312	4. 8 72. 5	30, 500 223, 582 1, 234, 421 3, 001, 039 2, 289, 274 9, 784, 333	1,3 7,5 18,1 13,8 59,1	1,389,239 517,835 5,648,220	68.1	\$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.	27 25 13 4 5	189 494 498 1,200	7.8 20.3 20.5 49.3	1, 167, 675 2, 494, 776 2, 912, 390	5. 9 12. 6 14. 7 65. 0	616, 991 1, 256, 894 1, 417, 825	7, 9 4 16, 1 5 18, 1 1 55, 7
NILES 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.	40 12 7 8 5	31 56 360 787	0. 1 1. 1 1. 9 12. 2 26. 7	2, 244, 431 3, 941, 898	0.1 0.7 1.3 12.2 21.5	5,712 77,138 104,841 970,736 1,845,838	0.1 0.9 1,3 11.7 22.3	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	53 60 61 36 9	26 150 390 1,187 1,160	0.1 0.8 2.0 6.1 6.0	141, 871 655, 169 2, 497, 601 9, 349, 882 6, 235, 587 222, 578, 260	0.3 1.0 3.9	4,569,351 2,929,96	5 0.5 5 1.6 1 5.8
Norwood	70 4 24 13 8 6 15	8, 28 58 145 462 1, 073	100. 0 (2) 0. 7 1. 8 5. 6 13. 0	9, 887 226, 806 693, 551 2, 229, 551 5, 108, 252	(2) (2) 0.5 1.4 4.6	27,724,313 4,678 123,367 426,584 1,416,948 2,577,067	(2) 0.4 1.5 5.1 9.3	ZANESVILLE. Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 and over.	20 27 19 22 9	15 93 187	0.5 3.1 6.2 43.0	4,904,636	0. 4 2. 0 6. 5 36. 5	28, 843 162, 748 487, 210 2, 435, 160	3 0. 8 2. 6 8. 0 40.

¹Includes the group "\$500,000 to \$1,000,000."

² Less than one-tenth of 1 per cent

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

products. 3rick and tile, terracetts, and fire-clay products. 3utter	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	own ndi- vid- ials. t	6, 766	All others.	Total.	In est ow Indi- vid-	ablishm ned by-	-		cent total.	ot		Of establi	shments owr	ned by-			
All industries	19 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	vid- ials. t 3, 490 5, 959 5, 978	6, 766	oth- ers.	Total.		Cor-	4 12	total.						Per cent			
Automobile bodies and parts. Prass, bronze, and copper products. Bread and other bakery products. Bread and other bakery products. Brick and tile, terraciotta, and fire-clay products. Butter	014 009 019 014 019 014	3, 959 3, 978	6, 766 5, 775	31	[]	uals.	pora- tions.	All oth- ers.	vid-	Cor- pora- tions	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	Alı others.		Cor- pora- tions	oth-
parts. Parts, bronze, and copper products. Pread and other bakery products. Pread and other bakery products. Pread and iffectly products. Partick and tile, terracotty, and fire-clay products. Partick and general shop construction and repairs by steam-rail-road companies. Partick and companies. Partick and general shop in the pairs by steam-rail-road not including operations of railroad companies. Partick and companies. Partick and general shop in the pairs by steam-rail-road companies. Partick and companies. Partick and companies. Partick and general shop in the pairs by steam-rail-road not including operations of railroad companies. Partick and tile, terracotty in the pairs of the pairs by steam-rail-road not including operations of railroad companies. Partick and tile, terracotty in the partick and general shop in the pairs by steam-rail-road not including operations of railroad companies. Partick and tile, terracotty in the partick and general shop in the pairs by steam-rail-road not including operations of railroad companies. Partick and tile, terracotty in the partick and general shop in the pairs by steam-rail-road not including operations of railroad companies. Partick and tile, terracotty in the partick and general shop in the p	914 919 914 919	71	5, 123	2, 869 2, 924 3, 037	730, 733 510, 435 440, 934	28, 421 32, 628 34, 345	678, 849 449, 244 378, 473	23, 463 28, 563 34, 116	3. 9 6. 4 7. 7	92. 9 88. 0 84. 7	3. 2 5. 6 7. 6	\$5,100,308,728 1,782,808,279 1,437,935,817	\$157, 660, 289 89, 037, 502 88, 075, 465	\$4,790,633,085 1,601,796,776 1,249,778,444	\$152,015,354 91,974,001 100,081,908	3. 1 5. 0 6. 1	93. 9 89. 8 86. 9	5. 2
per products. Bread and other bakery products. Brick and tile, terracetts, and fire-clay products. Butter. 19. Cars and general shop construction and repairs by steam-railroad companies. Clothing, men's. 19. Clothing, women's. 19. Clocke, not including gashouse coke. Confectionery and ice cream. 19. Electrical machinery, apparatus, and supplies. 19. Flour-mill and gristmill products. 19.	014	15	126 41	40 7	16, 670 4, 128	399 142	15, 881 3, 943	390 43	2. 4 3. 4	95. 3 95. 5	2. 3 1. 0	92, 390, 646 9, 556, 097	2, 777, 329 637, 985	87, 405, 711 8, 801, 079	2, 207, 606 117, 033	3. 0 6. 7	94. 6 92. 1	2.4 1.2
products. 3rick and tile, terracetts, and fire-clay products. 3utter		25 28	54 42	13 14	4, 264 2, 277	211 197	3, 944 1, 922	109 158	4.9 8.7	92. 5 84. 4	2. 5 6. 9	27, 801, 760 7, 843, 092	1, 353, 885 532, 955	25, 927, 394 6, 894, 127	520, 481 416, 010	4.9 6.8	93.3 87.9	1.9 5.3
cottu, and fire-clay products. Intter	[] .	1, 230 1, 318	150 81	241 235	9, 091 7, 665	3, 198 3, 246	5, 010 3, 566	883 853	35, 2 42, 3	55. 1 46. 5	9.7 11.1	78, 819, 001 30, 560, 581	26, 949, 498 12, 755, 385	43, 871, 455 14, 279, 550	7, 998, 048 3, 525, 946	34.2 41.7	55.7 46.7	10.1 11. 8
Coke, not including gashouse coke. Corfectionery and ice cream. Confectionery and ice cream. Clethrical machinery, apparatus, and supplies. Cloth and repairs. Confectionery and ice cream. Clethrical machinery, apparatus, and supplies. Confoctionery and ice cream. Clethrical machinery, apparatus, and supplies. Confectionery and ice cream. Clethrical machinery, apparatus, and supplies. Confectionery and ice cream.		64 124	215 223	62 103	12, 060 16, 238	492 776	10, 961 14, 527	607 935	4.1 4.8	90. 9 89. 5	5. 0 5. 8	32, 172, 576 23, 375, 689	672, 210 1, 029, 397	30, 149, 117 20, 998, 577	1,351,249 1,347,715	2.1 4.4		4. 2 5. 8
construction and repairs by steam-railroad companies. lars, steam-railroad, not including operations of railroad companies. Clothing, men's		29 33	80 71	32 39	1,362 1,099	154 104	1, 104 874	104 121	11.3 9.5	81. 1 79. 5	7. 6 11. 0	41, 061, 993 14, 938, 608	2, 334, 594 1, 065, 531	36, 366, 409 12, 544, 402	2, 360, 990 1, 418, 675	5. 7 87. 1	88.6 3.4	
Ars, steam-railroad, not including operations of 191 railroad companies. 192 railroad companies. 192 railroad rail			117 88		35, 245 21, 639	•	35, 245 21, 639			100. 0 100. 0		96, 483, 946 33, 286, 205		96, 483, 946 33, 286, 205			100. 0 100. 0)
Clothing, men's		::::	8 5		2, 177 2, 885		2, 177 2, 885			100. 0 100. 0		28, 145, 542 11, 795, 726		28, 145, 542 11, 795, 726			100. 0 100. 0	
Coke, not including gashouse coke. Confectionery and ice cream. Electrical machinery, apparatus, and supplies. Flour-mill and gristmill products.)19)14	114 121	71 45	61 58	9, 939 8, 691	1, 524 1, 874	6, 649 3, 769	1, 766 3, 048	15.3 21.6	66. 9 43. 4	17. 8 35. 1	58, 169, 320 24, 063, 468	4,501,512 2,804,335	41, 392, 307 11, 236, 960	10,022,173	H	71.2 46.7	2 21. 7 41.
house coke. Confectionery and ice cream. Electrical machinery, apparatus, and supplies. Flour-mill and gristmill products. Food preparations, not 19	919 914	53 67	88 66	34 37	8, 258 9, 775	1, 015 692	6, 485 7, 293	758 1,790	12.3 7.1	78. 5 74. 6		48, 703, 704 22, 881, 753	4, 507, 299 1, 336, 251	38, 869, 637 16, 853, 882	5,326,768 4,691,620	9.3 5.8		10.1 7 20.
cream. 1 Electrical machinery, apparatus, and supplies. 19 Flour-mill and gristmill products. 19 Food preparations, not 19	919 914		13 5		3, 407 489		3, 407 489			100. 0 100. 0		46, 514, 213 2, 156, 814		46, 514, 213 2, 156, 814				0
paratus, and supplies. 19 Flour-mill and gristmill 19 products. 19 Food preparations, not 19	919 914	148 134	118 90	114 68	5, 451 3, 965	351 418	4, 495 3, 036	605 511	6.4 10.5	82. 5 76. 6	11.1 12.9	39, 185, 084 14, 341, 668	2,657,140 1,252,838	32, 117, 440 11, 625, 147	4, 410, 504 1, 463, 683	6. 8 8. 7		0 11. 1 10.
Flour-mill and gristmill 19 products. 19	919	26 20	151 87	12 12	26, 672 12, 695	179 88	26, 329 12, 482	164 125	0.7 0.7	98.7 98.3	0.6	156, 924, 143 36, 120, 978	828, 705 257, 038	155, 381, 835 35, 520, 772	713, 603 343, 168	0. 5 0. 7	99. 0 98. 3	0 3 1.
Food preparations, not elsewhere specified.	919 914	220 263	143 137	214 249	2, 122 2, 363	378 478	1,338 1,294	406 591	17. 8 20. 2	63. 1 54 8	19. 1 25. 0	89, 396, 619 45, 171, 200	10, 294, 759 6, 438, 927	66, 560, 506 28, 824, 681	12, 541, 358 9, 907, 592	11. č 14. 3		5 14. 8 21.
_	919 914	40 30	39 34	19 12	1,857 1,523	51 82	1,751 1,396	55 45	2. 7 5. 4	94. 3 91. 7	3.0 3.0		350, 151 313, 748	45, 616, 73 26, 915, 71	373, 562 116, 727		98, 4 98, 4	4 0. 4 0.
	919 914	269 224	741 619	152 149	87, 803 51, 553	1, 965 1, 355	83,004 48,244	2,834 1,954	2.2 2.6	94. 5 93. 6	3. 2 3. 8	425, 497, 682 122, 816, 681	7, 601, 512 3, 109, 976	403, 960, 05 114, 936, 86		1.8 2.5	94. 9 93. 6	9 3, 6 3.
Furniture 19	919 914	33 61	104 110	25 38	8, 346 7, 750	404 777	7, 630 6, 434	312 539	4. 8 10. 0		3.7 7.0	35, 224, 313 16, 411, 298	1, 440, 422 1, 358, 558	32, 363, 27, 13, 960, 24	1,420,616 1,092,495	4.1 8.3	91. 9 85. 1	
	919 914		42 33		9, 793 5, 786		9, 793 5, 786			100. 0 100. 0		179, 233, 435 72, 969, 368		179, 233, 43 72, 969, 36	5		100. (100. (
Leather, tanned, curried, 19	919 914	2 4	17 19	5 5	1, 565 1, 605		1, 488 1, 504	1		95. 1 93. 7	4.9 6.3			24, 052, 913 10, 840, 93	\$ 955, 155 3 786, 98	3	96. 93.	2 3. 2 6.
Liquors, malt 19	919 914	4		2 11	3,327	1 45	3,28	2	1.4			25, 161, 227 31, 990, 274		24, 979, 08 31, 429, 71	341, 295	0.7	99. 98.	3 2 1.
products, not includ- ing planing mills con-	919 914	102 126	199 188	77 86	4, 495 5, 516	609 620	3, 442 4, 190	3 441 70	13. 11.	76. 6 76. 0	9.9	32, 428, 847 18, 892, 060	3, 988, 051 2, 034, 656	25, 796, 23 13, 811, 64	2,644,56 4 3,045,76	2 12.5 10.5	79. 73.	5 8. 1 16.
	919 914	7 14	51 48	3 3	2, 197 1, 697		2,163 1,65	3 3 3 4 3 4 3		98. 2 97. 2	1.5	36, 848, 364 14, 824, 073		36, 271, 41 14, 491, 59	0 ² 576, 95 2 ² 332, 48	t	98. 97.	4 1. 8 2.
	919 914		11 7		2, 431 1, 519		2, 43 1, 51	9		100.0		43, 282, 801 11, 169, 189		43, 282, 80 11, 189, 18	9	 .	100. 100.	0
	919 914	8 11		8 12	11,339 11,096			6	6.			28, 675, 361 15, 291, 685	4 1, 486, 916 539, 581	27, 188, 44 14, 530, 25				0 1.
book and job.	1919 1914	462 429	214		7,978		6, 21; 2 5, 66	3 98 6 92	17.	71.6	11.	19, 915, 250	3, 093, 466	14,775,21	0 2,046,57		74.	2 10.
	1919 1914	330 420	299	1.	7,274	1,240		3 64	17.	74.	8.8	28, 023, 290	B	1	1	13.	8 77.	6 8
Rubber tires, tubes, and 19	1919 1914	5	86 48	5	21, 70	11	63, 53	7 3 10 9 3 4	 	1	3 0.:	109,658,60		550, 446, 65 109, 527, 18	f	2	99.	9 0
Shipbuilding, steel	1919 1914		5		11, 19: 2, 62:	3]]	11, 19	3		100.0)	56, 481, 966 4, 291, 646	5]]	56, 481, 96 4, 291, 64 147, 863, 25	5	4 7.	. 100. . 100. 3 86.	0
packing. 1	1919 1914 1919	54 72		33	3,48	32	0 2,99 5 5.88	9 16 3 13	1 9.	2 86.	2 4.6	64, 960, 396	6, 524, 166	53, 172, 90	5 5, 263, 32 0 559, 77	5 10. 3 1.	0 81. 4 96.	9 8
naces.	1914 1914 1919	9 19	61	1 8	5,04	1 13	1 4,70 1 4.94	5 20 7 5	5 2. 3 4.	93.3 4 94.6	1.0	9,990,696	488,007 1,235,106	9,090,65	5 412,03	4 4. 3 3.	9 91. 0 96.	0 4
made in steel works or 1 rolling mills.				,, '													at no	. 8) 1
cigarettes. 1 Tools, not elsewhere 1 specified.	1914 1919	543	3 63	3	6,65	7 12	1 '	i	11	96,	i	{ {	4	II.	6 4,713,80	3 26.	90. 0 57. 6 47.	6 16

¹ Includes "chewing gum" in 1914. 1 Includes "fron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks, portable."

² Includes the group "Individuals."
⁴ Includes the group "All others."

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued.

		NU	MBER (OF	AVE	RAGE NU	JMBER C	F WAG	S EAR	NERS.		VALUE OF PRODUCTS.								
industry and city.	Cen-	ESTAI	NED B	ENTS			tablishm vned by-			r cent total.			Of estab	lishments own	ned by-		r cen total.			
	year.	Indi- vid- uals.	Cor- pora- tions.	All others.	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	vid-	Cor- pora- tions	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	pora-	oth-		
Total for cities 1	1919 1914	3,960 4,000	4, 891 3, 972	1,686 1,542	577, 271 385, 608	20, 644 22, 948	539, 102 341, 293	17, 525 21, 367	3.6 6.0	93. 4 88. 5	3.0 5.5	\$4,059,713,323 1,372,110,101	\$117, 252, 283 61, 653, 709	\$3,830,203,897 1,244,169,806	\$112,257,143 66,286,586	2.9	94.3 90.7	2.8 4.8		
AKRON	1919 1914	101 115	162 144	41 46	65, 054 24, 680	394 424	64, 443 24, 141	217 115	0.6 1.7	99. 1 97. 8	0.3 0.5	558, 962, 067 122, 291, 600	2, 292, 393 1, 249, 626	554, 909, 010		0.4	99.3 98.5	0.3		
ALLIANCE	1919 1914	34 24	23 19	17 9	5, 117 2, 333	71 53	4, 877 2, 220	169 60	1.4 2.3	95.3 95.2	3.3 2.5	32, 871, 087 7, 174, 766	642, 330 189, 478	31, 162, 991	1,065,766	2.0	94.8 93.6	3.2		
ASHTABULA	1919 1914	32 25	25 26	5 6	4, 172 1, 868	191 133	3,977 1,693	4 42	4.5 7.1	95. 3 90. 6	0.1 2.2	23, 098, 509 5, 020, 991	826, 847 481, 578	22, 236, 028 4, 440, 431	35, 634	3.6	96.3 85.4	0.2		
BARBERTON	1919 1914	14 17	16 10	2	4, 762 3, 118	2 44 50	4,718 3,050	is	0.9 1.6	99.1		27, 713, 226	² 382, 495	27, 330, 731		1.4	98.6			
BELLAIRE .	1919	16 21	19	10	2, 277	25	2, 197 2, 281	55 19	1.1	96.5	2.4	8, 843, 422 14, 502, 401	188, 073 142, 719	13, 967, 311	392,371	1.0	96.6 96.3	2.7		
Bucyrus	1914 1919	20	13 16	6	2,603 1,861	303 48	2, 201 1, 769	44	11.6 2.6	87.6 95.1	0.7 2.4	12, 170, 206 8, 435, 746	401, 225 397, 176	11, 608, 030 7, 555, 168	160, 951 483, 402		95.4 89.6	1.3 5.7		
CAMBRIDGE	1919 1914	10 12	17 18	5 9	1,782 1,455	51 36	1, 714 1, 394	17 25	2.9 2.5	96. 2 95. 8	1.0 1.7	11, 226, 809 3, 923, 786	302, 952 107, 104	10, 855, 458 3, 669, 907	68,399 146,775	2.7 2.7	96. 7 93. 5	0.6 3.7		
CANTON	1919 1914	103 107	148 140	36 29	20, 336 12, 255	468 510	19, 694 11, 545	174 200	2.3 4.2	96.8 94.2	0.9	124, 292, 924 43, 713, 446	2, 680, 690 1, 141, 757	120, 623, 011 42, 005, 773	989, 223 565, 916	99	97.0	0.8		
CHILLICOTHE	1919 1914	10 21	14 18	11 7	1,638 1,557	47 90	1, 519 1, 315	72 152	2.9 5.7	92.7 84.5	4.4	7, 667, 182 4, 083, 486	273, 356 409, 470	6, 975, 560	418, 266	3.6	91.0 83.2	5.5		
CINCINNATI	1919 1914	912 935	882 786	445 414	69, 680 59, 861	5,723 6,902	57, 155 45, 679	6,802 7,280	8.2 11.5	82.0	9.8	500, 040, 996 210, 860, 386	32, 376, 332 20, 172, 013	422, 405, 952	45, 258, 712	6.5	84.5	9.1		
CLEVELAND	1919 1914	1,091	1, 461	394	157, 730	5, 196 6, 421	148, 764 91, 218	3,770 5,678	3.3 6.2		2.4	1,091,577,490	29, 576, 933	1 ' '	29, 362, 515 18, 742, 830	!	94.6 90.5	2.7		
Columbus	1919	1,005 272	321	308 97	26, 751 17, 236	1,439 1,232	24, 234 15, 108		5.4	90.6	4.0	352, 418, 052 184, 021, 849	8, 137, 656	170, 676, 035	5, 208, 158	4.4	92.7	2.8		
Соѕностом	1914	266 10	268 27	109 8 2	1,959	12	1.852	95	7.1 0.6		4.8	57, 608, 084 7, 684, 762	51,743	6, 987, 344	645, 675	0.7	87.7 90.9	8.4		
CUYAHOGA FALLS	1914 1919	21 11	24 11	2 8	1,614 784	54 64	1,529 689	31 31	3.3 8.2] !				4		92.9 90.2			
DAYTON	1919 1914	186 214	294 219	91 90	31, 131 24, 061	967 1, 219	28, 900 21, 542	1,264 1,300	3.1 5.1	92.8 89.5	4.1 5.4		4, 562, 728 3, 440, 523			2.6 4.8	93.9 91.4	3.5 3.8		
EAST CLEVELAND	1919 1914	7 3	7 2	3 2	88 129	38	40 8 129	10	43.2		11.4	420, 505 295, 786	H	ł		38.5	50.3	11.2		
EAST LIVERPOOL	1919 1914	20 30	36 36	11 14	4, 311 4, 830	99 109	4,090 4,555	122 166	2.3 2.3	94.9 94.3	2.8	12, 501, 181 7, 092, 903	1, 110, 738 336, 296	10, 929, 511	460, 932		87.4 91.0			
ELYRIA	1919	22 23	44	9	4, 590 2, 735	114	4, 456 2, 586		2.5 5.1	97.1	0.4	25, 191, 454	820, 787 556, 191	24, 248, 261	122,406	3.3	96.3 92.9	0.5		
FINDLAY	1914	23 27 25	34 30	6 18	2, 735 1, 715 1, 737	140 58 74	1,553 1,557	104	3.4	90.6	6.1	8, 791, 734 7, 924, 282	437,792	7,037,685	448, 805	5.5	88.8 87.2	5.7		
FREMONT	1914 1919	25 14	37 32	16 7 13	2,999	74 50	2 883	106 66	4.3 1.7		2.2	4, 662, 778 12, 915, 095	235, 748 162, 807	12,399,358	352,930	1.3	96.0 94.7	2.7		
Hamilton	1914	16 52	36 54	13 24	2,063 8,553	36 143	8,020	49 390	1.7			4, 779, 982 47, 024, 031	716, 438	44, 850, 681	1, 456, 912	1.5	95.4	3.1		
IRONTON	1914 1919	59 9	53 31	17 12	6,043	303 79	5, 424		4.0	83.0	4.6 5.2 13.0	14, 071, 850	958, 393 251, 935	15, 131, 042	1	1.8	89.6 91.6	6.6		
Kenmore	1914	14 3	31	14 2	1, 971 1, 420 135	94	1,635 1,143 ³ 135	183	6.6	80. 5 100. 0	12.9	4, 666, 185 844, 303	143, 954	l .	214,789	3.1	92.3 100.0	4.6		
LAKEWOOD	1919	20 14	11	2 1	i	² 56 ² 434	1,765 1,340		3.1 24.5	96.9	1 1	7, 602, 803 3, 606, 498	² 341, 776	7, 261, 027		4.5 16.5	95.5 83.5			
Lancaster	1914	14 15 23	22 19	6	2,024 1,583	i l	1,848	41 60	6.7	91.3 90.7	2.0	11, 478, 883	486, 156	10, 629, 009	363,718	4.2	92.6 84.6	i		
Ілма	1914	36	48	11 24	4, 901	154	1, 436 4, 432	315	3.1	90.4	6.4	23, 638, 764	742, 348	21, 817, 237	1,079,179	3.1		4.6		
LORAIN · · · · · · · ·	1914 1919	41 14	42 29 32	14 12	4,876 11,677	40	11, 594	43	0.3	94.7 99.3	0.4	116, 908, 616	264, 619	116, 270, 233	373, 764	0.2	99.5 99.3	0.8		
MANSFIELD	1914 1919	28 58	48	26	6, 436 4, 711	40 244	4, 323	144		98.4 91.8 84.2	! !	29, 110, 037 31, 877, 551	1,495,843	29, 393, 908	987, 800	4.7	92.2	3.1		
MARIETTA	1914 1919	46	37 23	20 13	3,398	208 117	2, 862 1, 124	328 44	9.1	87.5	3.4	5, 917, 469	469, 596	5, 243, 924	203, 949	7.9	88.6	3.4		
	1914	23 24 28	33	14	1, 285 1, 401 4, 125	90 107		158 94	6.4	82.3	11.3	20,712,973	204, 425 641, 808	3, 645, 653 19,701, 159	370,006	3.1	95.1	1.8		
MARION · · · · · · · · · · · · · · · ·	1914	28 27	35 27	7 12	2,577	74	2,479		2.9	96.2 95.3	0.9	6,384,864 15,402,280	212,432	6,082,327			95.3 97.3	ĺ		
MARTINS FERRY MASSILLON	1919 1919	24 27 37		3 20	1,517 2,153	39	1,445 2,023 1,580	91	1.8	94.0 89.4	4.2	13,984,871	273,772	13,245,830	465,269	2.0	94.7 92.2	3.3 0.7		

1 Excludes Cleveland Heights and East Youngstown, to avoid disclosure of individual operations.
2 Includes the group, "All others."
3 Includes the groups, "Individuals" and "All others."

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914—Continued,

		NU	MBER	OF	AVE	RAGE N	UMBER (F WAG	E EAR	NERS.	. !		VA	LUE OF PROI	oucts.			
INDUSTRY AND CITY.	Cen-	ESTA	BLISHM NED B	ENTS			tablishn vned by			r cent total.			Of establishments owned by—			Per cent o total.		t of
	year.	Indi- vid- uals.	Cor- pora- tions,	All oth- ers.	Total.	Indi- vid- uals.	Corpora- tions.	All oth- ers.		Cor- pora- tions		Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions	oth.
MIDDLETOWN	1919 1914	18 24	30 29	- 8 10	6,442 4,003	78 87	6,347 3,883	17 33	1.2 2.2	98.5 97.0	0.3 0.8	\$62,838,289 21,787,151	\$419,056 213,240	\$62,186,586 21,497,753	\$232,647 76,158	0.7	99.0 98.7	0.4
NEWARK	1919 1914	30 34	34 25	15 20	4,570 4,583	$\frac{250}{220}$	$\frac{4,261}{3,858}$	59 50 5	5.5 4.8	93, 2 84, 2	$\frac{1.3}{11.0}$	16,563,149 9,276,762	1,266,076 465,729	13,982,829 7,857,081	1,314,244 953,952	7.6 5.0		7.9 10.3
NEW PHILADELPHIA	1919	25	14	4	1,247	95	1,145	7	7.6	91.8	0.6	8,445,658	448,767	7,927,927	68,964	5.3	93.9	0.8
NILES	1919	7	26	7	2,945	27	2,899	19	0.9	98.4	0.6	18, 358, 773	130,455	18,111,348	116,970	0.7	98.7	0.6
NORWOOD	1919 1914	23 23	40 30	7 5	8,283 5,808	71 75	8,188 5,691	24 42	0.9 1.3	98.9 98.0	0.3 0.7	47,947,183 16,724,360	341,081 180,651	47,445,759 16,456,088	160,343 87,621	0.7 1.1		
Piqua	1919 1914	28 34	33 30	5 14	3,293 2,777	259 122	3,016 2,544	18 111	7.9 4.4	91.6 91.6	0.5 4.0	19,921,345 7,988,279	1,643,497 501,810	18,125,110 7,229,095	152, 7 38 257,374	8.2 6.3		0.8
PORTSMOUTH	1919 1914	25 31	27 33	8 12	5,914 3,597	110 77	5,771 3,468	33 52	1.9 2.1	97.6 96.4		36,645,736 7,682,145	1,118,288 411,158	35,292,188 7,119,608	235,260 151,379	3.1 5.4		
Salem	1919	11	22	3	2,237	37	2,190	10	1.7	97.9	0.4	11,069,550	268,665	10,766,585	34,300	2.4	97.8	0.3
Sandusky	1919 1914	44 41	57 53	14 13	3,447 2,727	207 157	$3,063 \\ 2,415$	177 155	6.0 5.8	88.9 88.6	5.1 5.7	19,248,571 8,284,865	1,236,751 504,681	17, 179, 147 7, 273, 361	832,673 506,823	6.4 6,1		4.3 6.1
Springfield	1919 1914	75 111	96 91	35 51	12,264 7,868	722 439	11,161 7,003	381 426	5.9 5.6	91.0 89.0	3.1 5.4	67,759,001 27,721,789	4, 143, 163 1, 399, 218	61,105,295 24,688,487	2,510,543 1,634,084	6.1 5.0		
STEUBENVILLE	1919 1914	23 23	$\frac{22}{22}$	12 15	3,855 4,506	87 78	3,725 4,375	43 53	$\frac{2.3}{1.7}$	96.6 97.1	$\frac{1.1}{1.2}$	30,903,344 16,958,987	505,746 220,660	30,091,041 16,5 1 0,323	306, 557 228, 004	1.6 1.3		
Tippin	1919 1914	29 33	$\frac{22}{22}$	24 21	2,213 2,177	286 317	1,860 1,757	67 103	12.9 14.6	84.0 80.7	3.0 4.7	10,516,369 4,995,880	1,162,006 932,100	8,643,414 3,821,406	710,949 242,374	11.0 18.7		
Toledo	1919 1914	244 290	336 303	91 120	42,090 27,076	1, 180 1, 041	40,054 24,632	856 1,403	2.8 3.8	95.2 91.0	2.0 5.2	293,520,900 115,049,426	8,537,745 3,246,273	281, 196, 519 107, 234, 068	3,786,636 4,569,085	2.9 2.8	95. 8 93. 2	1.3 4.0
WARREN	1919 1914	31 33	47 39	18 10	2,433 2,862	70 86	2,286 2,697	77 79	2.9 3.0	94.0 94.2	3.2 2.8	19,747,395 10,399,737	451,148 208,895	18,794,812 9,964,379	501,435 226,463	2.3 2.0	95. 2 95. 8	2.5 2.2
Youngstown	1919 1914	91 86	107 82	41 33	19,414 15,861	345 278	19,001 15,439	68 144	1.8 1.8	97.9 97.3	0.4 0.9	241, 458, 370 92, 111, 272	2,482,657 771,844	238,339,112 90,776,424	636,601 563,004	1.0 0.8		0.3
Zanesville	1919 1914	35 44	44 40	18 13	3,014 3,035	543 558	2,343 1,639	128 838	18.0 18.4	77.7 54.0	4.2 27.6	13, 437, 777 8, 300, 231	1,283,716 875,880	11,119,929 4,205,411	1,034,132 3,218,940	9.6 10.6		7.7 38.8

Table 15.—MANUFACTURES, BY POPULATION GROUPS, IN CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

				CIT	ES HAVING A	POPULA'	rion or 10,000	OR OV	ER.	6 4 .	THE STATE OF	
	Cen- sus Aggregate.		Total.		10,000 to 25	,000.	25,000 to 100	0,000.	100,000 and	over.	A POPULATIO	N OF
	year.	11661064101	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per centof aggre- gate.
Number of places.	1919 1914 1909		48 41 36		27 25 22		14 11 9		7 5 5			7000
Population 2.	1920 1915 1910	5, 759, 394 5, 026, 898 4, 767, 121	3, 137, 372 2, 447, 437 2, 130, 013	54. 5 48. 7 44. 7	429, 915 393, 602 345, 803	7. 5 7. 8 7. 2	535, 822 499, 742 393, 371	9.3 9.9 8.3	2, 171, 635 1, 554, 093 1, 390, 839	37. 7 30. 9 29. 2	2, 622, 022 2, 579, 461 2, 637, 108	45.5 51.3 55.3
Number of establishments	1919 1914 1909	16, 125 15, 658 15, 138	10, 537 9, 514 8, 763	65. 3 60. 8 57. 9	1, 450 1, 516 1, 366	9. 0 9. 7 9. 0	1, 427 1, 639 1, 207	8.8 10.5 8.0	7, 660 6, 359 6, 190	47. 5 40. 6 40. 9	5, 588 6, 144 6, 375	34.7 39.2 42.1
Average number of wage earners	1919 1914 1909	730, 733 510, 435 446, 934	577, 271 385, 608 323, 131	79. 0 75. 5 72. 3	77, 159 60, 317 53, 624	10.6 11.8 12.0	88, 262 93, 740 67, 742	12. 1 18. 4 15. 2	411, 850 231, 551 201, 765	56. 4 45. 4 45. 1	153, 462 124, 827 123, 803	21.0 24.5 27.7
Value of products	1919 1914 1909	\$5, 100, 308, 728 1, 782, 808, 279 1, 437, 935, 817	\$4,059,713,323 1,372,110,101 1,074,492,138	79. 6 76. 9 74. 7	\$457, 606, 475 179, 460, 670 156, 321, 801	9. 0 10. 1 10. 9	\$557, 534, 569 385, 642, 109 283, 054, 022	10.9 21.6 19.7	\$3, 044, 572, 279 807, 007, 322 635, 116, 315	59.7 45.3 44.2	\$1, 040, 595, 405 410, 698, 178 363, 443, 679	23.0
Value added by manufacture	1919 1914 1909	2, 188, 360, 857 762, 026, 264 613, 733, 870	1, 776, 674, 525 601, 671, 322 468, 164, 822	81. 2 78. 9 76. 3	222, 538, 121 81, 001, 383 68, 825, 229	10.2 11.0 11.2	261, 231, 649 157, 346, 303 107, 359, 766	11. 9 20. 6 17. 5	1, 292, 904, 755 360, 323, 636 291, 979, 827	59. 1 47. 3 47. 6	411, 686, 332 160, 354, 942 145, 569, 048	21.0

¹ Includes Cleveland Heights and East Youngstown, to avoid disclosure of individual operations.
2 Population of 1920, as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

Table 16.—PRINCIPAL INDUSTRIES IN CITIES OF 50,000 INHABITANTS OR MORE, WITH PER CENT OF TOTAL FOR STATE: 1919.

ARRON. Rubbet lires, tubes, and rubber scools, not clear from products. Rubbet lires, tubes, and rubber scools, not clear from products. Rubbet lires, tubes, and rubber scools, not clear from products. Rubbet lires, tubes, and rubber scools, not clear from products. Rubbet lires, tubes, and rubber scools, not clear from the products. Rubbet lires, tubes, and rubber scools, not clear from the products. Rubbet lires, tubes, and rubber scools, not clear from the products. Rubbet lires, tubes, and rubber scools, not clear from the products. Rubbet lires, tubes, not rubber scools, not clear from the products. Rubbet lires, tubes, and rubber scools, not clear from the products. Rubbet lires, tubes, and rubber scools, not clear from the products. Rubbet lires, tubes, and rubber scools, not clear from the products. Rubbet lires, tubes, and rubber scools, not clear from the products. Rubbet lires, tubes, and rubber scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and rubbet scools, not clear from the products. Rubbet lires, tubes, and		VΔ	LUE OF	PRODUCTS.		5: 1919.	YA	LUE OF	PRODUCTS.	
ARRON. ARRON. ARRON. ARRON. Col. Col. Col. Co	CITY AND INDUSTRY,			Increase ove	r 1914.1	CITY AND INDUSTRY.			Increase ove	г 1914,1
Rubber tires, tables, and rubber cools, and color tables are processed as a probably of the processes of the probably of the p			total for the	Amount.				total for the	Amount.	Per cent.
Finding and probleming, book and job. 1, 258, 629 1, 70, 10, 108 1, 77, 77, 77, 77, 77, 77, 77, 77, 77, 7	Rubber tires, tubes, and rubber goods, not elsewhere specified	14 694 799		11, 764, 144	411.2	Foundry and machine-shop products 5	•		1	244. 5 384. 8
Sewing and hole-in furnames	Bread and other bakery products. Printing and publishing, book and job. Lumber, planing-mill products, not in-	4, 212, 196 3, 289, 029	5.3	3,493,319 (2)	485. 9 (²)	Slaughtering and meat packing Electrica i machinery, apparatus, and		41.7	1	152. 9 206. 2 360. 7
Buttern	sawmills. Stoves and hot-air furnaces. Liquors, malt. Printing and mublishing powers and	2, 684, 177 1, 814, 480 1, 775, 773	8.3 7.3 7.1	926, 974	104.4	Automobile bodies and parts. Clothing, women's. Stoves, gas and oil. Clothing mon's	44,312,932 35,307,741 19,489,305	48.0 72.5 82.7	39,940,005 19,064,449	913. 4 117. 4 170. 4 128. 2
Buttern	periodicals. Brick and tile, terra-cotta, and fire-clay products.	1,701,194 1,589,606	1	1		Bread and other bakery products. Tools, not elsewhere specified. Paints.	19, 413, 046 17, 602, 520 17, 436, 225	24.6 54.1	12,505,438 (2)	181. 0 (2) 131. 4
Section 1	Automobiles					Printing and publishing, newspapers and	15,570,029	26.6	9, 271, 749	387. 4 147. 2 128. 7
CASTON C	Olicioth and linoleum	1	(2)	(2)	(2)	works or rolling mills	13, 373, 139	33. 8	11, 619, 109	662.4
Structural ironworks, make 2,643,835 8.2 2,531,854 2,210 1,555,074 149.8 1,500,635 1,100,835 2,00 1,100,8						repairs by steam-railroad companies	1	12.0	6,613,557	94. 2 133. 4 (2)
Altomorbibles Parss and bronze products Parss and br	mills. Foundry and machine-shop products a	63, 373, 984 8, 592, 801	10.1 2.5	46, 486, 715 2, 832, 688			10,003,277 9,050,542 7,593,467	53.3 66.4	5, 952, 125 6, 493, 261 4, 463, 497	146.9 253.9 142 6
Altomonibles Parss and bronze products Parss and bro	cluding planing mills connected with sawmills. Structural ironwork, not made in steel	2,643,835	.		1	not elsewhere specified. Brass and bronze products. Coffee, roasting and grinding.	7,071,352 6,622,233 6,171,429 5,906,753	23.8 21.1	4,585,391 4,131,114 (2) 4,332,937	184.5 165.8 (2) 275.3
Dirick and tile, building brick, fancy, ornsmental, vitrifled, glazed, and enameled. (1) (2) (3) (4) (5) (5) (6) (7) (7) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8)	Bread and other bakery products	2,554,878 1,560,551 1,454,673 1,142,874	2.0 5.5	1, 139, 835 (2) 367, 159	270.9			22.9	-753,940	-11.5 142.9
Common C	Brick and tile, building brick, fancy, ornamental, vitrified, glazed, and en-					Bags, other than paper, not including				
Where specified, enameled ware. County and machine shop products 12, 912, 994	Electrical machinery apparatus and		(2)	(2)	1	Iron and steel, blast furnaces. Iron and steel, wrought pipe. Petroleum, refining	(2)	(2)	(2)	(2)
Where specified, enameled ware. County and machine shop products 12, 912, 994	Furniture Iron and steel forgings, not made in steel works or rolling mills Safes and vaults, safes		G			Rubber tires, tubes, and rubber goods, not elsewhere specified				
Cincinnation Cinc	Slaughtering and meat packing, wholesale, Springs steel					Wire. Worsted goods. Columbus.	i .			
Rread and other bakery products.	CINCINNATI.	1.5		39, 183, 473 35, 398, 296	168.6	Cars and general shop construction and repairs by steam-railroad companies		15.8 14.3	9, 812, 235 4, 973, 787	225.8 181.7 95.2
Paints P		32, 254, 217 31, 223, 081 14, 140, 223	55.4 43.8 17.9	18, 921, 107 16, 698, 003 7, 754, 547	141.9 115.0 121.4	Slaughtering and meat packing Bread and other bakery products Printing and publishing, newspapers and		3.8 6.6	3,084,955 1,973,107	(2) 145. 6 93. 0
Butter	Leather, tanned, curried, and finished	10, 567, 143 10, 333, 139	18.0 28.0 40.4	4, 542, 249 6, 531, 577 4, 668, 272	75. 4 171. 8 86. 0	Fertilizers	3,668,580 2,832,917 2,575,127 2,185,510	20.2 6.6	(2) (2) 1,685,520	(2) (2) 189. 5 110. 8
Stoves and hot-air furnaces	Butter	8,824,102 7,789,700 6,611,920	21.5 31.0 22.6	-2,563,107 4,325,872	-24.8 189.2	Stoves ranges and hot-air furnaces, in-	1		1	103.0 33.1
Cars and general snop construction and repairs by steam-railroad companies. 4,026,932 4,22 3,056,276 2,454,817 314.9 Glass. Lumber, planing-mill products, not including planing mills connected with sawmills. 3,122,558 3,641,519 3,122,558 3,645,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,641,519 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 3,122,558 4,2 3,056,276 2,454,817 206.9 112.1 12.1 12.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 14.9 15.1 15.	Tobacco, cigars Stoves and hot-air furnaces Automobile bodies and parts.	5,882,781 5,251,557 5,207,453	20.4 21.0 5.6	2,568,649		Cars, steam-railroad, not including oper-				
Brass, bronze, and copper products	Cars and general shop construction and	4 096 039	30.4 57.5	2,026,385 2,477,107	72.9 139.8	Dental goods Flour-mill and gristmill products Furniture				
Bags, paper, exclusive of those made in paper mills. Baking powders and yeast. Directly, enameled.	Brass, bronze, and copper products. Lumber, planing-mill products, not including planing mills connected with	3,641,519	13.1		206.9	Iron and steel, blast furnaces.		(2)		(7)
Ink, printing Paints Regalia, and society badges and emblems Tobacco, cigars Tobacco, cigars	Automobiles Bags, paper, exclusive of those made in paper mills Baking powders and yeast		<i>B</i> .0	2,000,202		rivets. Iron and steel, forgings Liquors, mait. Oilcloth, enameled. Oleomargarine				
Oleomargarine	Ink, printing. Lamps Oil and cake, cottonseed	(2)	(2)	(2)	(2)	Regalia, and society badges and emblems Tobacco, cigars Wool pulling				
Pickles, preserves, and sauces	Pickles, preserves, and sauces Scap Steam fittings and steam and hot-water heating apparatus.	. ,				DAYTON. Foundry and machine-shop products 5 Slaughtering and meat packing	16, 085, 156 8, 414, 683	4.9	3,584,036	188.0 74.2 124.7

A minus sign (—) denotes decrease.
 Figures can not be shown without disclosing individual operations.
 Includes "iron and steel, welding."

⁴ Includes "iron and steel, tempering and welding" and "machine tools."
5 Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks, portable."

TABLE 16.—PRINCIPAL INDUSTRIES IN CITIES OF 50,000 INHABITANTS OR MORE, WITH PER CENT OF TOTAL FOR STATE: 1919—Continued.

	VA	LUE OF	PRODUCTS.			VA	LUE OF	PRODUCTS,	
CITY AND INDUSTRY.	Amount	Per cent of	Increase ove	r 1914.	CITY AND INDUSTRY.	Amount,	Per cent of	Increase over	r 1914.
	Amount, 1919.	total for the state.	Amount.	Per cent.		1919.	total for the state.	Amount.	Per cent.
Dayton-Continued.					Toledo—Continued.				
Tools, not elsewhere specified Tobacco, cigars and cigarettes Printing and publishing, newspapers and	\$3,785,457 3,057,848	11.6 10.6	1, 002, 417	4, 893. 9 48. 8	Bread and other bakery products Butter	\$5,774,946 4,324,608 4,163,468	7.3 10.5 8.5	\$3,467,735 (1) 1,729,898	150.3 (1) 71.1
periodicals Stationery goods, not elsewhere specified. Pumps, steam and other power	2,630,616 2,564,132 2,064,211	4.5 55.2 60.7	1, 523, 089 (1) (1)	137. 5 (1) (1)	Printing and publishing, newspapers and periodicals. Gloves and mittens, cloth, not including	3,514,811	6.0	1,680,506	91.6
Lumber, planing-mill products, not in- cluding planing mills connected with				``	those made in textile mills	2,840,984 2,776,615	37.5 7.1	(1)	(3)
sawmills. Clothing, men's. Furniture Confectionery and ice cream Brass, bronze, and copper products. Boxes, paper and other, not elsewhere specified.	2,036,429 1,787,391 1,488,981 1,473,323	6.3 3.1 4.2 3.8	(1) (1) 664, 158 (1)	(1) (1) 80.5 (1)	Cars and general shop construction and repairs by steam-railroad companies Printing and publishing, book and job. Lumber, planing-mill products, not in-	2,609,557 2,279,574	2.7 5.8	1,407,628 1,316,787	117.1 136.8
Brass, bronze, and copper products Boxes, paper and other, not elsewhere	1,271,610	4.6 12.5	939,140 393,372	282.5 45.6	Printing and publishing, book and Job- Lumber, planing-mill products, not in- cluding planing mills connected with sawnills. Automobiles.	2,238,609	6.9	757, 973	51.2
specified. Printing and publishing, book and job Automobile bodies and parts. Cash registers and calculating machines.	1,012,880)	2.6	540,038	114.2	Awnings, tents, and sails				
Chemicals					paper mils Brass, bronze, and copper products. Carriages and sleds, children's. Coffee and spice, roasting and grinding	t			
supplies. Envelopes. Iron and steel, steel works and rolling mills	:				Coke, not including gas-house coke Fancy articles, not elsewhere specified Glass Iron and steel, blast furnaces.				
mills. Liquors, malt. Motorcycles, bicycles, and parts. Ordnance and accessories.	(1)	(1)	(1)	(1)	Iron and steel, wrought pipe Liquirs, malt				
Paints. Paper and wood pulp. Patent medicines and compounds. Rubber tires, tubes, and rubber goods, not elsewhere specified. Scales and balances.		,			On, missed Pens, fountain and stylographic Petroleum, refining. Pickles and sauces Rubber tires, tubes, and rubber goods, not elsewhere specified Scales and balances. Schabulding steel	(1)	(1)	(4)	(4)
not elsewhere specified					not elsewhere specified				
Springfield.	,				Shipbuilding, steel. Slaughtering and meat packing. Springs, steel, automobile.				
Agricultural implements	7,205,752 7,166,220	27.1	1,444,241	25.1	Stoves and hot-air furnaces. Structural ironwork, not made in steel works or rolling mills				
Foundry and machine-snop products 2 Engines, steam, gas, and water	4, 180, 910	2.1 9.8 65.9	1,444,241 3,372,172 2,866,848 1,279,044	88.9 218.2 168.8	works or rolling mills Tinware, not elsewhere specified. Tobacco, chewing and smoking, and snuff		2.5		
Automobiles	1				Toys and games				
Coffins, burial cases, and undertakers' goods. Electrical machinery, apparatus, and					Youngstown.				
supplies	1	(1)	(1)	(1)	Foundry and machine-shop products Bread and other bakery products	9,604,195	2.8 3.4	6,526,250 2,092,618	212.0 337.6
Tron and steel steel works and rolling	ליו ק	(1)		(1)	Printing and publishing	2,712,504 2,082,236	2.1	1, 290, 459	163.0
mills Printing and publishing, newspapers and periodicals. Signs and advertising novelties. Slaughtering and meat packing.					supplies. Furniture. Iron and steel, blast furnaces. Iron and steel, steel works and rolling				
Toledo.	05 400 0/5	_	00.004.0		mills	(1)	(1)	(1)	(1)
Foundry and machine-shop products a. Electrical machinery, apparatus, and supplies	27,468,943 19,245,500	6.5 12.3	20,924,341 16,015,618	319.7 495.9	mills Iron and steel, wrought pipe. Rubber tires, tubes, and rubber goods, not elsewhere specified.				
Flour-mill and gristmill products	19,245,500 13,432,512 5,922,578	15.0 6.4	7,617,124 (¹)	131.0	Structural ironwork, not made in steel works or rolling mills.	J			

¹ Figures can not be shown without disclosing individual operations, ² Includes "iron and steel, tempering and welding" and "machine tools."

Table 17.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

	NUMBER (OF ENGINES O	R MOTORS.	HORSEPOWER.						
POWER.					Per cent distribution.					
	1919	1914	1909	1919	1914	1909	1919	1914	1909	
Primary power, total	93,713	44,188	25,970	2,897,497	1,993,080	1,583,155	100.0	100.0	100.0	
Owned Steam ¹ Engines Turbines Internal-combustion engines Water Water wheels and turbines Water motors	10,814 7,722 7,150 572 2,797 295 227 68	12,738 8,346 (2) (2) 4,059 333 284 49	13,012 9,246 (2) (2) (2) 3,354 412 373 39	1,939,666 1,782,512 1,407,558 374,954 147,039 10,115 9,461 654	1,712,136 1,541,212 (2) (2) 156,481 14,443 13,930 513	1, 483, 628 1, 363, 720 (2) (2) 103, 801 16, 107 15, 777 330	66. 9 61. 5 48. 6 12. 9 5. 1 0. 3 0. 3	85. 9 77. 3 7. 9 0. 7 0. 7	93.7 86.1 6.6 1.0 1.1	
Rented	82,899 82,899	31,450 31,450	12,958 12,958	957, 831 945, 341 12, 490	280, 944 273, 814 7, 130	99, 527 93, 592 5, 935	33. 1 32. 6 0. 4	14.1 13.7 0.4	8. 3 5. 9 0. 4	
Electric	129, 118 82, 899 46, 219	66, 137 31, 450 34, 687	34,237 12,958 21,279	1,764,724 945,341 819,383	823,000 273,814 549,186	417,844 93,592 324,252	100, 0 53, 7 46, 4	100. 0 33. 3 66. 7	100. E 22. 4 77. 6	

 $^{^1}$ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power. 2 Not reported separately. 3 Less than one-tenth of 1 per cent.

³Includes "iron and steel, tempering and welding"; "machine tools"; and "steel barrels, drums, and tanks, portable."

⁴ Not reported for 1914.

TABLE 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

	co.	AL.	g.;		0	0
INDUSTRY AND CITY.	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,900 cubic feet).
All industries. 1919. 1914. Per cent of increase 2. 1914.	108,606 43,198 151.4	25, 483, 869 13, 927, 612 83. 0	8,640,711 6,267,733 37.9	1,837,053 678,239 198.7	188,553 (¹)	45, 014, 790 50, 092, 157 —10, 1
Agricultural implements Automobiles bodies and parts. Automobiles. Automobile repairing. Boots and shoes, not including rubber boots and shoes.	27 579 135 8	42,777 67,219 200,434 10,485 77,346	11,523 5,230 213 57	10,525 33,113 93,998 88 6	281 5,631 26,529 296 22	174,734 225,321 189,379 60,590 58,620
Boxes, paper and other, not elsewhere specified. Brass, bronze, and copper products Bread and other bakery products Brick and tile, terra-cotta, and fire-clay products. Cars and general shop construction and repairs by steam-railroad companies.	145 2,154 4,841 2,453 10,153	8,582 52,911 36,499 1,493,487 715,394	16,634 17,386 947 5,095	3 42,113 149 7,742 61,945	3.626 2.064	17,725 192,692 1,528,607 886,210 33,449
Cars, steam-railroad, not including operations of railroad companies. Cash registers and calculating machines. Chemicals. Clothing, men's Clothing, women's	70 596	22,444 42,297 714,592 6,059 11,197	582 2,050 96,108 3	8,369 2,683 226 60	2	98,448 19,789 75,086 59,532 90,374
Coke, not including gas-house coke Confectionery and ice cream. Copper, tin, and sheet-iron work. Cuttery and edge tools. Electrical machinery, apparatus, and supplies.	517 199 402 2,355	7 995,889 34,362 4,712 5,232 104,243	53 392 582 12 12,880	64 262 56,474 31,553	1,396 167 385	37,951 226,468 62,346 14,854 611,664
Engines, steam, gas, and water. Flour-mill and gristmill products Foundry and machine-shop products Furniture. Gas, illuminating and heating.	339 100 5,312 27 1,610	34,407 105,017 764,873 64,753 43,067	6,778 135 222,524 6 2,692	3,498 2,315 269,231 12,754	2,554 21,659 134	282,852 212,076 7,146,061 108,831 18,680
Glass. Gloves and mittens, cloth, not including gloves made in textile mills. Hardware. Ice, manufactured Iron and steel, blast furnaces.	905 300	339,738 2,214 59,341 251,359 650,212	85 9 2,052 7,743,804	16,994 8,303 1,266	30 1,645	5,800,995 2,146 1,123,413 422,734 72,842
Iron and steel, steel works and rolling mills Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills Iron and steel, forgings, not made in steel works or rolling mills Iron and steel, wrought pipe. Knit goods	1,175 2,040 48 2,002	5,096,601 42,840 250,571 138,220	284,874 716	565,975 36,534 244,301 16,804	9,854 399 368 164	15, 294,674 206, 835 552, 495 100, 739 4,626
Liquors, malt Lumber and timber products. Lumber and timber products not including planing mills connected with saw-	135 100	262,081 9,665		200	823	229,398 3,518
Liquors, malt Lumber and timber products. Lumber, planing-mill products, not including planing mills connected with saw-mills. Machine tools. Marble and stone work, except slate.	268 269 35	197,873 61,004 22,163	124 2,955 68	23,056 124	734 598	75, 123 75, 223 43, 514
Mineral and soda waters Motorcycles, blcycles, and parts. Paints. Paper and wood pulp. Patent medicines and compounds.	112	10,431 10,532 22,441 706,985	11	4,534 5,126	3	76,982 50,169
Patent medicines and compounds. Petroleum, refining. Plumbers' supplies, not elsewhere specified. Pottery. Printing and publishing, book and job. Printing and publishing, newspapers and periodicals.	. 217 . 39,198 - 632 810 224 98	9,645	1,969 2,006	331 52, 249 3, 773 24 11	31 249 221 3 172	137,170 52,863 3,882,784 136,495
Rubber tires, tubes, and rubber goods, not elsewhere specified. Safes and vaults. Screws, machine. Screws, machine. Screws, machine.	948 15 759	1, 156, 810 6, 641 19, 880 68, 271	398 8 4,338	9,29	0 164 9 106 9 33,073	59,854 442,676
Slaughtering and meat packing Springs, steel, automobile. Stamped and enameled ware, not elsewhere specified. Stamped and steam and hot-water heating apparatus.	4	148,512 13,385 89,525 15,664	1,583 5,822	1,05 39,94 3,02 14,10	5 300	685,086 117,555 15,834
Stoves and hot-air furnaces Stoves, gas and oil. Structural ironwork, not made in steel works or rolling mills. Tinware, not elsewhere specified.	. 205	27,540 42,091	1,793 131	4,710 9,313 3.	618 456 7	77,668 58,799 46,780
Tobacco, cigars and cigarettes Tools, not elsewhere specified Wirework, including wire rope and cable, not elsewhere specified All other industries.		19,808 13,998	969 1,190	52,57	3 148 7 388 1 14,260	154,248 34,885 2,008,903
Total for cities 2	96,564			1,493,76		329 410
AKRON	. 806	168,716 44,142 430,856	3,091 1,305 40,126	17,02	7 443 5 470 5 523	16, 461 377, 861 84, 385 457, 157
BELLAIRE BUCYRUS. CAMBRIDGE CANTON. CHILLICOTHE CINCINNATI	1,7,93	93,914 657,932 76,068	881 44 15,802 25 21,248	208,31 1,26	1,455	99,242 2,561,947 44,844

Included in figures for fuel oils.

A minus sign (---) denotes decrease.

Excludes Cleveland Heights and East Youngstown, to avoid disclosure of individual operations.

TABLE 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919—Continued.

		AL.				
INDUSTRY AND CITY.	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
CLEVELAND. COLUMBUS. COSHOCTON. CUYAHOGA FALLS. DAYTON	20,604 286 430	3,536,718 340,702 29,047 10,090 354,049	1,467,347 189,629 3,375 2,290 22,904	581,889 62,054 1,567 20,042	43,588 6,525 157 2 3,099	7,040,842 1,531,462 117,439 8,328 375,253
EAST CLEVELAND. EAST LIVERPOOL ELYRIA. FINDLAY FREMONT	10 562 515 73 95	420 34,691 68,475 26,250 32,622	3 600 2,022 409 709	5,488 434 38,764	44 5,348 384 476	4,667 2,140,231 235,789 96,238 91,687
HAMILTON IRONTON KENMORE LAKEWOOD LANCASTER	7 5 60	174,637 464,848 404 35,362 22,314	15,857 265,197 5,179 692	7,501 5,278 161	270 288 83	76,468 268,400 68 19,625 219,405
Lima. Lorain. Mansfield. Marietta. Marion.	330 171 1,613 1,121	73,140 1,989,654 22,315 6,017 63,370	4,035 848,575 3,301 360 4,283	15,237 118,146 14,909 37,110	1,714 6,208 1,524 19 509	25,919 205,895 296,940 201,845 360,885
MARTINS FERRY MASSILLON MIDDLETOWN NEWARK NEW PHILADELPHIA	2,000 228 110	84,651 87,985 389,883 155,380 74,472	60, 765 2,007 3,000 5,700 536	2,395 61,243 6,508	1 388 1,846 4,829 4	12,381 20,329 1,015,611 1,998,306 9,824
Niles. Norwood. Piqua Portsmouth Salem.	6 487 25 4 503	134,302 75,109 31,261 686,995 25,579	36,641 1,683 2,313 29,942 2,943	8,582 6,434 72	95 994 6	47,858 70,462 14,239 136,666 130,470
Sandusky Springfield Steubenville Tiffin	3,101 7 510 1,414	141,242 92,121 195,609 30,283	3,710 12,599 231,061 2,369	5,715 11,210 6,521	1,474 255 69 4	3,302,614 1,712,043 681,966 294,814
Toledo. Warren Youngstown Zanesville	46,653 160 72	1,072,169 31,592 1,741,342 90,187	266,740 1,135 2,082,024 10,739	98,945 1,152 29,324 405	4,896 561 513 107	1,626,920 197,546 212,138 410,645

SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for 20 of these industries in Ohio are here presented.

Iron and steel, blast furnaces (Table 19).—This table presents the statistics for the pig-iron industry of the state for 1919, 1914, and 1909. The state ranks second in the industry (Pennsylvania first) and produced 23.2 per cent of the tonnage of the country in 1919, 22.7 per cent in 1914, and 21.2 per cent in 1909. All but one-half of 1 per cent was coke iron in 1919, as compared with 1.1 per cent in 1914 and 1.3 per cent in 1909. The small production made with fuel other than coke in 1919 was made with mixed bituminous coal and coke.

The production in 1919 was an increase of 34 per cent over that of 1914 and 29.9 per cent over 1909, with increases in values of 146.3 per cent and 115.2 per cent, respectively. Iron for steel making—the basic and Bessemer grades—constituted 83.5 per cent of the production in 1919, 84.4 per cent in 1914, and 78.8 per cent in 1909, not including the ferroalloys; while foundry iron constituted 9.2 per cent in 1919, 10.4 per cent in 1914, and 13.2 per cent in 1909. Of the pig-iron output, 57.1 per cent was handled molten in 1919 and 29.4 per cent was machine cast; 53 per cent molten and 31 per cent machine cast in 1914; and 50 per cent molten and 17.3 per cent machine cast in 1909.

TABLE 19.—Iron and Steel, Blast Furnaces: 1919, 1914, and 1909.

[Ton of 2,240 pounds, except as otherwise stated.]

	1919	1914	1909
MATERIALS.			
Total cost	\$137,686,107	\$60,738,524	\$68,424,722
Iron ore: Tons Cost Average per ton. Scrap, mill cinder, scale, slag, flue dust,	12,449,590 \$71,456,065 \$5.75	9,624,750 \$36,348,602 \$3.80	9,884,358 \$41,830,645 \$4.25
etc.: Tons Cost Average per ton Fluxing material: Tons	759,719 \$3,971,192 \$5.25	353, 518 \$806, 739 \$2, 30	368,931 \$1,041,384 \$2.80
Average per ton	3,484,609 \$6,054,043 \$1.75 \$46,670,272	2,752,381 \$2,796,342 \$1.00 \$18,852,678	2,693,423 \$2,597,107 \$0.95 \$20,593,130
Coke— Tons (2,000 lbs.) Cost. Average per ton Other (bituminous coal, 1919; coal and charcoal, 1914 and 1909)	7,715,245 \$46,600,139 \$6.00	5,816,260 \$18,750,140 \$3.20	6,050,491 \$20,433,686 \$3.40
	\$ 70,133	\$102,538	\$159,444
All other materials, cost	\$ 9,534,535	\$1,934,163	\$2,362,45
PRODUCTS.	. 1	1 N	
Total value	\$179,233,435	\$72,969,368	\$83,699,23
Pig iron: Tons. Value. Average unit value, ton For consumption in works of com-	7,073,337 \$176,592,690 \$24.95	5,279,045 \$71,686,701 \$13.60	5,446,97 \$82,048,71 \$15.0
pany producing— Tons Per cent of total Assigned value For sale—	5,327,132 75.3 \$126,343,702	3,877,188 73.4 \$52,469,007	3,564,35 65. \$53,108,58
Tons. Per cent of total. Value.	1,746,205 24.7 \$50,248,988	1,401,857 26.6 \$19,217,694	1,882,61 34. \$28,940,12
Classified according to smelling fuel.		-	
Coke: Tons. Value. Other fuel:		5,219,564 \$70,759,573	5,376,39 \$80,813,57
Tons Value	35,745 \$1,385,663	59,481 \$927,128	70,57 \$1,235,14
Classified by grades. Bessemer tons. Basic tons. Foundry tons. Mallcable tons. Forge or mill tons. All other, including direct castings tons. Ferroalloys tons.	3,358,796 2,550,134 649,619 364,614 122,632 29,542	2,880,759 1,516,905 541,354 194,606 75,095	3,456,13 798,17 714,32 364,06 60,80
Ferroalloystons. Classified by method of delivery or casting.	(1)	4,548 65,778	47,38
Molten to steel works, etctons Machine cast tons Sand cast tons Chill cast and direct castings tons	4,036,452 2,078,216 677,157 281,512	2,797,254 1,635,242 636,639 209,910	2,723,70 945,03 1,625,03 153,10
All other products, value	\$2,640,745	\$1,282,667	\$1,650,52

¹ Not included in the blast-furnace industry in 1919: See "Ferroalloys"—Production of blast furnace ferroalloys 36,038 tons of ferrosilican, value \$1,454,831.

Table 20 presents the state statistics for steel furnaces and hot-rolling mills. The plants produced 24.7 per cent of the rolled, forged, and other classified products of the country in 1919 and in 1914 and 22.1 per cent in 1909. There was an increase of 42.1 per cent in tonnage in 1919, as compared with 1914, and 51.8 per cent with respect to 1909. The total value of the rolled, forged, or other classified products increased 217.5 per cent during the five-year period 1914–1919, and 222.2 per cent from 1909 to 1919. The figures show an average unit value of approximately \$62 per ton in 1919, \$28 in 1914, and \$29 in 1909.

The steel production in 1919, 8,175,960 tons, was approximately 68 per cent of the capacity of the furnaces operating on double turn for 300 working days, as compared with 65.6 per cent in 1914, and 72.3 per cent in 1909.

Table 20.—Iron and Steel, Steel Works and Rolling Mills: 1919, 1914, and 1909.

[Ton of 2,240 pounds.]

	1919	1914	1909
materials,1			
Total cost	\$381,059,673	\$139,676,491	\$139, 243, 155
Pig iron: Tons	5, 784, 072	4, 341, 857	4 179 114
Cost Ferroalloys—spiegeleisen, ferromanga-	\$137, 971, 046	\$59, 180, 555	4, 172, 114 \$62, 747, 851
rerroalloys—spiegeleisen, ferromanga- nese, etc.:			
Tons	100, 927 \$18, 417, 595	46, 166	37,035
Cost Scrap (not produced in establishment	\$18,417,595	\$2,928,818	\$1,694,127
reporting):			
Tons	1, 365, 875 \$25, 982, 418	855, 163 \$ 9, 452, 349	530, 409
Cost Steel, crude and semifinished (not pro-	\$2.0, \$52, 415	40° 40° 040	\$8,093,044
duced in establishment reporting): Tons	0 010 000	1 000 500	1 650 150
Cost	2,812,098 \$115,948,407	1, 902, 828 \$38, 370, 551	1, 858, 171 \$40, 358, 367
Rolled forms for further manufacture (not produced in establishment re-			
porting):			
Tons	9, 630 \$550, 385	102,981	154,683
Cost	\$ 550 , 385	\$2,732,071	\$4,438,205
Tons	157, 933 \$1, 394, 362	147, 464 \$455, 440	75, 857 \$384, 300
Cost	\$1,394,362	\$455,440	\$384,300
All other materials, including fuel and			
rent of power, cost	\$80,795,460	\$26,556,707	\$21,527,258
PRODUCTS.			
Total value	\$626,370,025	\$205,023,391	\$197, 780, 043
Rolled, forged, and other classified iron			-
and steel products:	0.050.400	0 000 000	
Tons Value	8,956,138 \$554,496,299	6, 303, 890 \$174, 638, 132	5, 898, 696 \$172, 105, 24
Finished rolled products and forg-		441,2,443,444	,,,
ings— Plates and sheets— Tons	1		1
	1,676,048	988, 997	755, 01
ValueBlack plates or sheets for tin-	\$143, 189, 210	\$38,892,399	\$33,800,60
ning			1
Tons Value	\$16,713,092	176, 835 \$7, 424, 689	\$5, 868, 639
Skelp—	1		1
Tons	1,281,747 \$74,905,772	955, 597 \$24, 478, 568	739, 76 \$22, 198, 36
Value Bars for reinforced concrete—		1 1	
TonsValue	45, 037 \$2, 766, 625	77, 309 \$2, 233, 658	70,970 \$2,063,08
Merchant bars—		42,200,000	, 000, 00
Tons	1,065,738 \$89,538,326	1	1
ValueAll other—		1, 250, 614 \$40, 319, 111	1, 424, 04 \$42, 888, 56
Tons	725, 450 \$46, 234, 339	930, 519, 111	##2, acc, 00
Value Semifinished rolled products (sold	\$40, 201, 000	ľ	
or transferred to other works of			
same company): Blooms, billets, and slabs—	1		
Tons	2,493,271 \$102,727,692	1,708,862 \$33,187,270	1, 975, 73 \$42, 301, 86
Value Sheet and tin-plate bars—	\$102,727,692	\$33, 187, 270	\$42,301,80
Tons	1, 258, 189 \$53, 028, 077	1,033,972	2 695, 85
Value. Unrolled steel (sold or transferred	\$53,028,077	\$20,877,350	\$16,027,39
to other works of same company):		1	
Ingots—	92, 849	8, 369	32, 22
TonsValue	\$3,049,795	\$146,679	\$613,54
Direct castings—			93,92
Tons Value	127, 715 \$22, 343, 371	103, 335 \$7, 078, 409	\$6,343,18
All other products, including scrap and value added to steel or iron rolling mill products by further manufacture,			1
products by further manuacture,	\$71,873,726	\$30, 385, 259	\$25,674,79
Steel production.	,,		ĺ
Totaltons	8, 175, 960 8, 048, 245	5, 449, 981 5, 346, 646	4, 705, 33
Total tons. Ingots tons.	8,048,245 127,715	5,346,646 103,335	4,611,41 93,92
Castingstons Classified according to process:	اللقا واشد		1
Come beauth fone	. 0,010,001	2, 589, 535 2, 554, 956	1,377,21
Open hearthtons	: a. (E28, 689)	000 و100 وشد	70.50
Basic tons	49, 948	34.579	3 (24 4)4-
Basic tons Acid tons Bessemer tons Crucible and electric tons	49, 948	34, 579 2, 860, 129 317	1, 377, 21 1, 306, 69 70, 52 3, 327, 35

Includes material purchased and the quantity and assigned value of that transferred to the establishment reporting from other works of the same company.
 Includes 15,875 tons of muck and scrap bar.

Rubber tires, tubes, and rubber goods (Table 21).— This table presents the quantities and values of the various classes of rubber goods for 1919 and 1914. It shows a remarkable growth in the industry during the five-year period 1914-1919, particularly in the production of automobile tires; pneumatic tires and tubes alone show an increase of 330.7 per cent in the number manufactured. In addition to the statistics contained in the table one establishment in Ohio was engaged exclusively in the manufacture of rubber belting and hose, for which statistics could not be included without the possibility of disclosing individual operations.

TABLE 21.—RUBBER TIRES, TUBES, AND RUBBER GOODS: 1919 AND 1914.

·	1919	1914
Number of establishments	96	54
Products, total value	\$ 551, 118, 488	\$109,658,6 05
Tires:		
Pneumatic— Automobile—		
Casings		
Number	19,726,962	ì
Value Inner tubes—	\$362,932,865	8,850,625
Number	18,391,065	\$71,776,078
Value.	\$41,430,711	1
Motorcycle and bicycle-	411, 100, 111	•
Casings—	1	
Number	1,758,832	1
Value Inner tubes—	\$5,743,923	643,419
Number	301,394	\$1,570,244
Value	\$417,370	İ
Solid-		
Truck—		
NumberValue	1,072,627	}
All other—	\$36,599,616	(1)
Number	1,606,137	\$11,897,710
Value	\$3,581,131	J
Boots and shoes:		
Heels—		
Pairs.	89, 269, 519	(1) (1)
Value Rubberized fabrics:	\$10,265,011	(*)
Automobile and carriage—	*	
Yards	6,877,538	(2)
Value	\$783, 254	(2) (2)
All other—		(#1)
Yards Value	20,661,588	(2) (2)
V 2000	\$4,346,991	(*)
Belting, value	\$5,730,341	\$2,154,696
Hose, value	\$7,554,285	\$4,194,576
Packing, value.	\$2,794,756	\$851,807
Druggists' and stationers' sundries, value	\$5,661,572	\$2,513,949
Druggists' and stationers' sundries, value	\$12,851,621	(2) 813 E41 4ED
An other manufactures of fubber, value	\$47, 136, 950	\$13,541,459
All other products, value	\$3,288,091	\$1,158,086
	,,	, 100,000

¹ Figures not available.

Automobiles, including bodies and parts (Table 22).-The following table shows the number and value of the different classes of automobiles manufactured during 1919, 1914, and 1909. The total number of automobiles of all kinds manufactured increased 143,005, or 211.9 per cent, while the total value of all products, including bodies and parts, increased \$293,-725,893, or 342.7 per cent, during the five-year period 1914-1919. Of the automobiles manufactured in 1919, 93.9 per cent were pleasure vehicles, 79.6 per cent of which were touring cars. Trucks, which represent 78.9 per cent of the business vehicles manufactured in the state during 1919, show an increase in number of 2,533, or 33.3 per cent.

TABLE 22.—Automobiles, Including Bodies and Parts: 1919, 1914, AND 1909.

		1919		1914	1909		
PRODUCT.	Num- ber.	Value.	alue. Num- ber. Value.		Num- ber.	Value.	
Total value1		\$ 379, 436, 478		\$ 85, 710, 585		\$38,838,734	
Automobiles, total. Pleasure vehicles. Touring cars. Closed cars. Runabouts. Roadsters. Business vehicles. Trucks. All other 4. Chassis. Trailers.	210, 488 197, 647 157, 354 22, 349 12, 137 5, 807 12, 841 10, 131 2, 710 30, 902 4, 327	170, 025, 986 123, 097, 625 30, 913, 944 8, 673, 108 7, 341, 309 28, 890, 306 22, 958, 704 5, 931, 602 45, 670, 445	58,548 49,421 2,010 7,117 (2) 8,935 7,598 1,337 (5)	53, 835, 446 44, 800, 434 4, 251, 172 4, 783, 840 (2) 15, 629, 924 13, 611, 631	13, 493 6, 479 1, 072 2, 900 33, 042 806 202	22, 630, 862 14, 307, 360 2, 526, 891 2, 948, 588 3 2, 848, 023 919, 250 386, 945	
All other products, in- cluding bodies and parts and repairs		132, 107, 781		16, 245, 215		15,288,642	

¹ In addition, 531 automobiles, valued at \$944,283 in 1919, and 102 automobiles valued at \$159,850 in 1914, were manufactured by establishments engaged primarily valued at \$159,50 in 1914, were manufactured by establishments engaged; in other industries.

2 Included with "Runabouts" in 1914.

3 Reported as "All other" in 1909.

4 Includes delivery wagons, to avoid disclosure of individual operations.

5 Not reported separately in 1914 and 1909.

Slaughtering and meat packing (Table 23).—This table presents, for the census years 1919, 1914, and 1909, data as to the kind, number, and cost of animals slaughtered; the cost of all other materials, which includes that for poultry, horses, goats and kids, dressed meat purchased for curing, cottonseed oil for making lard compounds and substitutes, curing materials, seasoning, refrigeration, containers, whole milk and butter for making oleomargarine, fuel, rent of power, mill supplies, and freight; and the quantity and value of the principal products that can be shown without disclosing the operations of individual establishments. The value of minor specified products are grouped under "All other products" and include canned beef and pork, canned sausage, lard compounds and substitutes, oleo oil, oleomargarine, hoofs, horns, and horntips, strips and waste, skins (other than cattle, calf, and sheep), hog and cattle hair, and stock food. The value of goat meat, dressed poultry, and horse meat is included in "Edible offal and all other fresh meat."

The actual growth of the industry is measured by the increase of 31.9 per cent in the number of animals slaughtered in 1919 over 1914. This increase was in all classes, except sheep and lambs, the largest being 630,696, or 33 per cent, in the number of hogs. The abnormal increase in the total cost of animals in this period—\$83,636,764, or 159.2 per cent—was due to the high prices prevailing as a result of the World War. The production of fresh meat was 109,966,632 pounds more in 1919 than in 1914, and that of cured meat was 56,450,247 pounds more. The total meat production, including sausage, in 1919, was 575,933,554 pounds, and including canned meat and sausage, 580,484,484 pounds.

² Not reported separately.

TABLE 23.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	uə.		
	1919	1914	1909
MATERIALS,			
Total cost	\$150,598,439	\$58,296,970	\$43,639,913
Animals slaughtered, cost	\$136, 165, 871	\$52, 529, 107	\$38,633,858
Number. Cost	410,680 \$35,531,201	269,719 \$16,375,682	265, 191 \$11, 613, 314
Calves— Number. Cost Sheep and lambs—	249,487 \$5,579,538	. 141,358 \$1,931,710	150, 223 \$1, 599, 585
Number	258,291 \$2,103,814	300,337 \$1,418,726	229, 985 \$872, 989
Hogs— Number Cost	2,542,304 \$92,951,318	1,911,608 \$32,802,989	1,725,285 \$24,547,970
All other materials, cost	\$14,432,568	\$5,767,863	\$5,006,055
PRODUCTS.	.		
Total value	\$170,337,892	\$64,960,396	\$49,795,368
Fresh meat, value	\$75,899,849	\$29, 255, 155	\$19,753,089
Pounds. Value. Veal	164,018,954 \$27,876,643	118,627,111 \$13,009,363	119,597,666 \$10,047,217
Pounds Value Mutton and lamb—	20, 548, 843 \$4, 768, 452	11, 157, 758 \$1, 569, 471	12,921,896 \$1,498,687
Pounds Value	8,583,313 \$1,877,852	9,245,870 \$1,169,054	7,738,777 \$763,364
Pork— Pounds. Value. Edible offal and all other fresh	157, 378, 994 \$39, 853, 273	101,775,391 \$12,669,369	60, 320, 259 \$6, 950, 354
meat— PoundsValue	11,674,845 \$1,523,629	11,432,187 \$837,898	6,728,033 \$493,467
Cured meat:			
Beef, pickled and other cured— Pounds.	1, 278, 410 \$287, 209	1,695,084 \$245,076	4, 450, 976 \$328, 334
Pork, pickled and other cured— Founds. Value	178,055,163 \$52,916,363	121, 188, 242 \$16, 632, 373	121,988,353 \$16,202,666
Pounds	34,395,032 \$7,424,495	31,047,288 \$3,692,691	24,240,181 \$2,337,761
Value	3,309,651 \$573,665	3,592,848 \$328,865	(1)
Lard: Pounds	64, 513, 888 \$18, 053, 472	67, 135, 365 \$7, 147, 098	58,518,712 \$6,566,768
Value	9,482,201	24,845,291	11,088,893 \$640,001
Pounds. Value. Grease and soap stock: Pounds. Value. Value.	\$1,338,112 5,959,317	\$1,683,720 4,821,543	(1)
Casings:	\$722,089 1,364,408 \$336,971	\$244, 193 855, 544	(1)
Value Fertilizers and fertilizer materials:	10,654	\$90,136 6,602	9,103
Tons (2,000 lbs.)	\$509,736	\$170,422	\$166,354
Number Pounds. Value.	410,680 21,707,926 \$6,643,486	269,719 16,146,170 \$2,391,107	410, 573 16, 900, 033
Calf— Number Pounds. Value.	238, 194 3, 031, 426	140,608 1,680,454 \$290,575	\$1,970,069
Sheep— Number Value	256,740 \$573,312	300, 259 \$292, 851	232,775 \$194,720
All other products, value	1	\$2,496,134	\$1,635,606

¹ Not reported separately.

Electrical machinery, apparatus, and supplies (Table 24).—This table presents statistics of the various kinds of electrical machinery, apparatus, and supplies manufactured in Ohio for 1919. Certain classes of products, among which were incandescent lamps and carbons, were reported to a greater value than some of those for which statistics are presented in the table, but can not be shown separately without the

possibility of disclosing the operations of individual establishments.

Ohio ranked second in the industry in the value of products, reporting 15.8 per cent of the electrical products of the United States. It led all states in the production of generating apparatus and batteries, furnishing 45 per cent and 32.2 per cent of the respective totals for the United States.

Table 24.—Electrical Machinery, Apparatus, and Supplies: 1919.

PRODUCT.	Value of products.
Total value 1	\$156,924,143
Generating apparatus and parts	
Batteries	29,694,720
Household and industrial apparatus and devices	21,726,024
Motors	19,760,215
Magnetoignition apparatus. Transformers and feeder potential regulators	11,121,179 3,879,236
Switchboards, panel boards, and cut-out cabinets for light and	0,519,200
power	772,682
Electric measuring instruments.	
Pole line hardware	432,63
Circuit fittings	
Therapeutic apparatus and X-ray tubes	378,624
Telephone apparatus	373,150
Telegraph apparatus	353, 19- 312, 23
Rectifying apparatus	22,970,13
All other products	
Amount received for custom work and repairing	1,672,54

¹ In addition, electrical machinery, apparatus, and supplies to the value of \$1,082,661 were reported by establishments engaged primarily in other industries.

Printing and publishing (Tables 25 and 26).—Table 25 gives the number and aggregate circulation per issue for all classes of newspaper and periodical publications reported for the census years 1919, 1914, and 1909.

Of the 165 dailies reported, 128, with a circulation of 1,933,072, were published in the afternoon, an increase of 29.8 per cent over the afternoon circulation in 1914. The circulation of Sunday newspapers during the same period increased 31 per cent.

TABLE 25.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.		AGGREGATE CIRCULATION PER ISSUE.				
Initial of the control of the contro	1919	1914	1909	1919	1914	1909	
Total	1,030	1, 173	1, 181	16, 101, 202	15, 707, 597	10, 753, 143	
Daily Sunday Semiweckly Triweekly	165 29 41 8	181 28 47 6	184 25 54 6	2, 497, 955 1, 087, 733 76, 071 18, 640	2, 484, 548 830, 219 171, 215 13, 925	1, 542, 854 645, 864 122, 104 9, 704	
Weekly Semimonthly Monthly	543	641 18 183 57	699 14 152 37	3, 282, 812 314, 298 6, 082, 211 2, 697, 832	3, 110, 883 669, 734 5, 501, 906 2, 874, 657 50, 510	2, 913, 73 516, 06 2, 685, 47 2, 288, 13 29, 21	

¹ Includes, in 1919, 11 bimonthly publications; in 1914, 11 bimonthly publications and 1 semiannus; in 1909, 8 bimonthly publications and 2 "All other."

Table 26 shows the number and circulation of foreign-language publications, in comparison with publications in English, by period of issue. The marked decreases shown in both number and circulation are due chiefly to the discontinuance of a number of German papers. The increase shown in the circulation of foreign-language dailies is due to the reported circulation of a newspaper printed in Rumanian. Of the 84 publications, with a circulation of 573,441, printed in foreign languages in 1919, 46 were German, 8 Polish, 6 Italian, 5 Hungarian, 5 Slovenian, 4 Rumanian, 3 Bohemian, 1 Greek, 1 Lithuanian, 1 Serbo-Croatian, 1 English and German, 1 English and Italian, 1 English and Slovenian, and 1 Yiddish.

Table 26.—Foreign-Language Publications Compared with English, by Period of Issue: 1919, 1914, and 1909.

		TOTAL.						IN FOREIGN LANGUAGES.		
PERIOD OF ISSUE.	Cen- sus year.	Num- ber.	Aggregate circulation per issue.	Num- ber.	Aggregate circulation per issue.	Num- ber.	Aggregate eircula- tion per issue.			
Total	1919	1,030	16, 101, 202	946	15, 527, 761	84	573, 441			
	1914	1,173	15, 707, 597	1, 055	14, 879, 708	118	827, 889			
	1909	1,181	10, 753, 143	1, 052	9, 919, 063	129	834, 080			
Daily	1919	165	2, 497, 955	153	2, 308, 227	12	189, 728			
	1914	181	2, 484, 548	169	2, 353, 583	12	130, 965			
	1909	184	1, 542, 855	173	1, 453, 190	11	89, 665			
Sunday	1919	29	1,087,733	26	1, 031, 994	3	55, 739			
	1914	28	830,219	23	742, 519	5	87, 700			
	1909	25	645,869	18	588, 729	7	57, 140			
Semiweekly and triweekly.	1919	49	94, 711	42	76, 811	7	17, 900			
	1914	53	185, 140	45	164, 144	8	20, 996			
	1909	60	131, 806	52	111, 438	8	20, 368			
Weekly	1919	543	3, 282, 812	500	3, 114, 338	43	168, 474			
	1914	641	3, 110, 883	579	2, 783, 531	62	327, 352			
	1909	699	2, 913, 730	630	2, 543, 916	69	369, 814			
Monthly	1919	179	6, 082, 211	169	6, 042, 584	10	39, 627			
	1914	183	5, 501, 906	167	5, 391, 458	16	110, 448			
	1909	152	2, 685, 470	133	2, 550, 482	19	134, 988			
Quarterly 1	1919	65	3,055,780	56	2, 953, 807	9	101, 973			
	1914	87	3,594,901	72	3, 444, 473	15	150, 428			
	1909	61	2,833,413	46	2, 671, 308	15	162, 105			
	, ,			1.1			1			

¹ Includes, in 1919, 10 semimonthly and 11 bimonthly publications, 1 of each in a foreign language; in 1914, 18 semimonthly and 11 bimonthly publications and 1 semiannual, of which, 3 semimonthly and 2 bimonthly publications were in foreign languages; in 1909, 14 semimonthly and 5 bimonthly publications and 2 "Alt other," of which, 5 semimonthlies, 1 bimonthly, and 1 "All other" were in foreign languages.

Flour-mill and gristmill products (Table 27).—This table shows the chief products of the industry in Ohio at the censuses of 1919, 1914, and 1909.

Table 27.—Flour-Mill and Gristmill Products (Merchant Mills): 1919, 1914, and 1909.

	1919	1914	1909
Total value	\$89, 396, 619	\$45,171,200	\$48,093,353
Wheat flour:			
Barrels	5,773,328	5,707,781	5, 723, 536
Value	\$63,201,713	\$27,852,222	\$3 0, 508, 109
Rye flour:			
Barrels	22,044	43,674	33, 215
Value	\$189,374	\$220,344	\$146,786
Buckwheat flour:	0.000.00	* 010 010	# 400 OTG
Pounds.	3,853,140	5,848,216	7, 436, 813
Value	\$220,015	\$171,359	\$180, 2 67
Corn meal and corn flour:	270 010	E94 041	ORE OFA
Barrels Value	370,810	524,941 \$1,696,817	865, 250
Hominy and grits:	\$2,714,357	91,090,017	\$2,528,843
Pounds	268,000	83,822,260	80,855,875
Value	\$9,380	\$1,380,905	\$1,247,605
Bran and middlings:	40,000	41,000,000	φ1,211,000
Tons	228,892	255,720	(I)
Value	\$10,535,906	\$5,886,947	(1) (1)
Feed and offal:	,,	12,020,221	` ' /
Tons	192,610	249.551	502, 301
Value	\$12,063,914	\$7,536,048	\$12,406,370
All other cereal products, value	\$132,727	\$88,671	\$931,283
All other products, value	\$329, 233	\$337,887	\$144,090

¹ Included in " Feed and offal."

Of the total value of products for the industry in the state, wheat flour formed 70.7 per cent in 1919 and 61.6 per cent in 1914. Bran and middlings and feed and offal combined formed 25.3 per cent and 29.7 per cent, respectively, for the two years. Illustrative of the high prices of commodities in 1919 as compared with 1914, the value of wheat flour increased 126.9 per cent while the quantity increased only 1.1 per cent during the five-year period.

Boots and shoes (Tables 28 and 29).—Table 28 gives the number of pairs and value of the various kinds of boots and shoes manufactured in the state in 1919, 1914, and 1909. The total number of pairs of boots and shoes reported in 1919 shows a small increase as compared with 1914 and a slight decrease as compared with 1909. Women's shoes constituted 69.2 per cent of the total output for the state and outnumbered by far all other kinds. Ohio ranked fifth in the industry in value of products among the states in 1919 and 1914.

TABLE 28.—BOOTS AND SHOES, BY CLASSES: 1919, 1914, AND 1909.

\$4,850 \$32,773,92 \$1,593 17,161,19 \$9,255 \$31,572,55 \$8,507 1,419,92 \$9,495 \$3,375,00	9 17,693,316 6 (1) 5 1,702,194
19, 255 \$31, 572, 55 19, 507 \$1,419, 92 19, 495 \$3, 375, 00	5 1,702,194
19, 255 \$31, 572, 55 19, 507 \$1,419, 92 19, 495 \$3, 375, 00	5 1,702,194
19, 255 \$31, 572, 55 19, 507 \$1,419, 92 19, 495 \$3, 375, 00	5 1,702,194
89,495 \$3,375,00	1 (1)
89,495 \$3,375,00	1 (1)
	1
í	
U COO 1 70/ 00	
04,699 1,734,95 05,926 \$2,724,58	
05,926 \$2,724,53	7 (1)
57, 284 10, 966, 82	5 11,154,083
3,280 \$21,978,51	
,,	1
1,103 3,039,49	2 3,464,709
30, 554 \$3, 494, 49	9 (1)
15. 555 X12. 24	
	2 (1)
	1
	98,555 812,24 30,245 \$1,052,36

¹ Figures not available.

Table 29.—Boots and Shoes—Number of Pairs, by Method of Manufacture: 1919 and 1914.

		NUMB	ER OF PAIRS MANUFA		D OF
KIND.	Cen- sus year.	Total.	Welted.	МсКау.	Turned and wood or metal fastened.
Boots and shoes	1919 1914	17,571,593 17,161,199	5,255,955 6,027,083	1 10,871,298 9,914,687	1,444,340 1,219,429
Men's, boys', and youths'.	1919 1914	2,703,206 3,154,882	636,758 1,217,226	1 2,066,448 1,796,438	141,218
Women's	1919 1914	12,157,284 10,966,825	4,530,980 4,603,637	6,181,964 5,332,200	1,444,340 1,030,988
Misses' and children's	1919 1914	2,711,103 3,039,492	88,217 206,220	1 2,622,886 2,786,049	47,223
All other footwear	1919 1914	298, 555 812, 242		112,419 470,055	186,136 342,187

¹ Includes "Turned" and "Wood or metal fastened" to avoid disclosure of individual operation.
² Includes "Welted."

Table 32.—Brick, Tile. Pottery, and Other Clay Products: 1919, 1914, and 1909—Continued.

	1919	1914	1909
Draintile:	And the second s		
Net tons	246, 158	\$1,589,565	(1) \$2,032,528
Value	\$2,042,452	\$1,589,565	\$2,032,528
Sewer pipe:			•
Net tons	481,219	(1) \$4,691,719	(1) \$3,009,798
Value	\$6, 198, 589	\$4,691,719	\$3,0 09,798
Tile:			
Building, hollow-		ļ	
Net tons	664,744	(1) \$2,200,544	(1) \$804,637
Value	\$1,755,610	\$2,200,544	\$804,637
Ceramie mosaie—			
Square feet	2,258,018	1	
Value	\$565, 220		
Faience—		1	
Square feet	729,717		
Value	\$461,048		
Flooring—		:1	
Square feet	2, 295, 344	\$2,331,079	(1) \$1,912,343
Value	\$570,627	\$2,331,079	\$1,912,343
Roofing-			
Squares	48,334))	
Vålue	\$615, 438		
Wall	·	1	
Square feet	2,450,396		
Value	\$833,013	.	
Pottery:			
Red earthenware	\$293, 249	1	
Red and brown, white-lined cook-		\$300,453	\$145, 137
ing ware	\$632,844	, , , , , , , , , , , , , , , , , , , ,	,
stoneware and yellow and Rock-		<i>'</i>	
ingham wara	\$2,050,864	\$1,592,102	\$1,806,798
White ware, semiporcelain, and	w,,	, ,	·-,,
semittireous norceiam	\$18,664,031	n l	
China, bone china, delft, and beileek		\$10,227,806	\$8,884,189
ware	\$817,195	,	
Sanitary ware, including bathtubs,	,	ľ	
laundry tubs, etc	\$1,301,024	\$619,931	\$310,254
Porcelain electrical supplies.	\$3,717,207	\$1,472,359	\$1,146,694
a or certain electrical supplies.	V., , 201	4- , -12,000	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
All other products	\$2, 184, 432	\$3,319,251	\$1,811,429
All bluck products	as, 101, 10s	90,018,201	#1 ,011,72

¹ Figures not available.

The large increase in 1919, as compared with 1914, was an increase in values and not in quantity production, the number of brick manufactured in 1919 showing a decided decrease, as compared with 1914.

The average number of wage earners in 1919—23,399—was 14.4 per cent less than the average number in 1914. This decrease, however, was confined to the "brick, tile, terra-cotta, and fire-clay" branch of the industry, the "pottery" branch showing an increase of 2.2 per cent.

Paper and wood pulp (Table 33).—This table shows the quantity and cost of materials used, the quantity and value of products, and detailed information regarding equipment for 1919, 1914, and 1909.

Ohio ranked seventh among the states in 1919 in the value of paper and wood pulp produced. Boards were the principal product of the industry in the state, forming 26.5 per cent of the total value of paper and wood pulp products in 1919. Book paper represented 23.8 per cent and fine paper 22 per cent of all products of this industry at the last census. Building, roofing, and sheathing paper, tissue paper, blotting paper, and other grades, amounting to \$4,948,781, and other products, principally paper bags and boxes, to the amount of \$4,835,851, have been included in the item "All other products," in order to avoid disclosing the operations of individual establishments.

TABLE 33.—PAPER AND WOOD PULP: 1919, 1914, AND 1909.

· i	1919	1914	1909
MATERIAIS.			-
Total cost	\$35,710,348	\$16, 109, 274	\$10,898,285
ulp wood: Cords	26,967 \$247,157	29, 352 \$187, 090	(1) \$443,296
Cost		!	
Tons	² 151, 467 \$13, 904, 166	² 139, 451 \$6, 392, 759	80, 201 \$3; 743, 972
Ground— Tons	10,683 \$512,755	9,383 \$196,447	4,778
Cost Soda fiber—			\$110,375
Tons Cost Sulphite fiber—	25, 827 \$2, 244, 624	33,855 \$1,499,053	\$1,303,29
Tons Cost Sulphate fiber—	99,384 \$ 9,885,543	86, 559 \$4, 335, 536	47,167 \$2,292,17
Tons	13,729 \$1,175,094	9,017 \$340,218	³ \$3 8, 13
Screenings, mechanical and chemical, cost	\$86,150	\$21,505	(1)
and sweepings: Tons Cost aper stock, including high-grade shav-	29,544 \$1,979,338	37,303 \$978,771	33,74 \$893,50
ings, and old and waste paper: Tons. Cost. anila stock, including jute bagging, rope, waste, thread, etc.:	180,863 \$4,439,189	200, 996 \$2, 307, 643	93,23 \$1,286,18
Cost	18,802 \$1,257,347	39, 230 \$850, 851	25,949 \$856,420
raw: Tons Cost	79,448 \$1,051,585	97,007 \$473,599	70,32 \$335,95
ina clay: Tons Cost	17,782 \$238,616	(1)	(9)
eaching powder: Tons	5,342 \$213,750 \$2,947,471	(4) (4) \$1,280,584	(i) (i) \$1,049,09
l other materials, cost	\$9,431,729	\$3,637,977	\$2,289,85
PRODUCTS. Total value	\$55,098,196	\$23, 284, 192	\$16,965,26
ook, cover, plate, and coated paper:			
TonsValue	\$1,191 \$13,136,652	89,006 \$7,712,459	75,60 \$6,752,10
ne paper: Tons Value	55,006 \$12,096,730	24, 155 \$2, 597, 349	19,579 \$2,306,010
rapping paper: Tons	32,922 \$5,488,802	34, 837 \$1, 954, 766	42,54 \$2,389,23
oards: Tons Value	211,335 \$14,591,380	171, 726 \$5, 537, 694	106,01 \$3,159,29
Straw— Tons Value	48,618 \$3,347,752	39, 496 \$1, 075, 535	37,710 \$853,10
All other— Tons.	162,717	132, 230 \$4, 462, 159	68,30
Value	\$11,243,628 \$9,784,632	\$4,462,159 \$5,481,924	\$2,306,19 \$2,358,61
ood pulp produced (including that used in mills where manufactured), tons.	13,490	14, 399	25,93
EQUIPMENT.	20, 200	11,000	20,00
aper machines: Total number	109	99	11
	557, 850	478, 244	414,65
Capacity, yearly, tons	10	44	57
Capacity, yearly, tons	43 774	659	
Capacity, yearly, tons		659 55 965	
Capacity, yearly, tons. Fourdrinier— Number. Capacity per 24 hours, tons. Cylinder— Number. Capacity per 24 hours, tons. ulp equipment: Grinders number	774 66 1,114	55 965 4	71
Capacity, yearly, tons. Fourdrinier— Number. Capacity per 24 hours, tons. Cylinder— Number. Capacity per 24 hours, tons. ulp equipment: Grinders number	774 66 1,114 8 4 4 3	55 965	71
Capacity, yearly, tons. Fourdrinier— Number. Capacity per 24 hours, tons. Cylinder— Number. Capacity per 24 hours, tons. 'ulp equipment: Grinders, number. Digesters, total number. Soda fiber, number. Sulphite fiber, number. Sulphite fiber, number.	774 66 1,114	55 965 4 7 4 3	5.71 71 1 54,40
Capacity, yearly, tons. Fourdrinier— Number. Capacity per 24 hours, tons. Cylinder— Number. Capacity per 24 hours, tons. 'ulp equipment: Caffiders, number	774 66 1,114 8 4 3 1	55 965 4 7 4	71 1

¹ Not reported.
² Includes 1,844 tons of mechanical and chemical screenings in 1919 and 637 tonsin

114.
Reported as "Other chemical fiber."
Not reported separately.

Paint and varnish (Table 34).—This table presents the statistics of products for the paint and varnish industries, 1919, 1914, and 1909. They represent 94 establishments in 1919, 61 primarily engaged in the manufacture of paints and 33 in the manufacture of varnishes, as compared with 95 (65 paint and 30 varnish) in 1914 and 87 in 1909.

TABLE 34.—PAINT AND VARNISH, 1919, 1914 AND 1909.

1 1919	1 1914	1909
\$50,477,810	\$19,326,576	\$13,617,189
\$36,848,364	\$14,824,073	\$13,617,189
\$13,029,440	\$4,002,000)
\$1,324,268	\$717,352	\$949, 613 \$7, 674, 867
\$31,331,003	\$11,401,700	\$1,014,001
35, 408, 775	28,941,498	24,057,529
\$4, 140, 545	\$1,905,492	\$1,532,797
18,074,246	13, 219, 598	12,237,952
\$3, 254, 743	\$1,085,100	\$807, 156
11,785,606	8, 187, 973	6,769,267
\$23,936,315	\$8,411,143	\$5,334,914
\$11,637,510	\$5,255,127	\$3,721,889
4,815,175	3,268,124	3,790,073
\$7,038,545	\$2,887,622	\$2,413,323
95,890	96,309	77,786
\$209,003	\$83, 2 36	\$106,848
1 045 715	150, 659	309,080
\$1,857,080	\$171,309	\$259,204
000 000	1 997 194	h
\$708 887	3556.181	
	-	1,715,173 \$672,443
970,759		4012, 110
\$1,046,705	\$340,961	\$270,071
\$111,200	\$1,210,010	\$210,011
270,850	281,063	292,867
\$321,816	\$163,538	\$155,869
2 700 141	2, 970, 795	4,623,364
\$243.726	\$175,981	\$159,570
		l ·
\$194,089	\$ 90, 393	
		4055 301
2,648,260	1,500,616	\$955,381
\$156,465	\$45,569	
\$5,268,333	\$1,526,881	
	\$50,477,810 \$36,848,364 \$13,629,446 \$1,324,268 \$31,331,603 35,408,775 \$4,140,545 18,074,246 \$3,254,743 11,785,606 \$23,936,315 \$11,637,510 4,815,175 \$7,038,545 \$209,003 1,045,715 \$1,857,080 \$42,920 \$708,887 970,759 \$1,046,705 \$777,220 270,850 \$321,816 2,709,141 \$243,726 4,066,210 \$194,089	\$50, 477, 810 \$19, 326, 576 \$36, 848, 364 \$14, 824, 073 \$13, 629, 446 \$717, 352 \$31, 324, 288 \$717, 352 \$31, 331, 603 \$11, 401, 735 35, 408, 775 28, 941, 498 \$4, 140, 545 \$1, 905, 492 18, 074, 246 13, 219, 598 \$3, 254, 743 \$1, 085, 100 11, 785, 606 8, 187, 973 \$23, 936, 315 \$8, 411, 143 \$11, 637, 510 \$5, 255, 127 4, 815, 175 3, 268, 124 \$7, 038, 545 \$2, 887, 622 95, 890 96, 309 \$209, 003 \$83, 236 1, 045, 715 150, 659 \$1, 045, 715 150, 659 \$1, 857, 080 \$171, 309 842, 920 1, 227, 184 \$708, 887 \$556, 181 970, 759 \$44, 962 \$1, 046, 705 \$340, 961 \$777, 290 \$1, 215, 818 270, 850 \$340, 961 \$7777, 290 \$1, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$31, 215, 818 270, 850 \$321, 816 \$163, 538 2, 709, 141 \$2, 970, 795 \$175, 981 4, 066, 210 \$1, 875, 714 \$40, 393 2, 648, 280 \$1, 500, 616 \$455, 569

¹ In addition, products within the scope of these industries to the value of \$1,065,385 in 1919 and \$145,005 in 1914 were reported as subsidiary products by establishments engaged primarily in the manufacture of other products.

Chemicals (Table 35).—This table gives the statistics for the chemical industries for 1919, 1914, and 1909. The production shown for 1919 comprises all products reported by 57 establishments primarily engaged in the manufacture of chemicals-including those of coal-tar origin, and sulphuric, nitric, and mixed acids-amounting to \$44,181,018 and chemicals of the value of \$5,904,572 manufactured by establishments included under other industry classifications. In 1914 there were 33 establishments in the industries constituting the group, and in 1909, 37 establishments. The increase of 300 per cent in the value of all products for the period 1914-1919, as compared with 50 per cent for the 1909-1914 period, can not be accepted as a measure of growth for the industry owing to the abnormal prices prevailing in 1919.

TABLE 35.—CHEMICALS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	\$50,085,590	\$12,490,369	\$8,361,9 85
The classified industries: Chemicals. Coal-tar products Sulphuric, nitric, and mixed acids	32,719,466 9,494,586 1,966,966	11,388,140	7,742,045
Subsidiary chemical products from other industries	5,904,572	1,102,229	619,940
Acids. Sodas, sodium, and compounds. Compressed and liquefied gases Glycerin Other chemicals.	7,547,185 15,074,794 3,330,742 4,364,434 17,433,841	2, 435, 302 4, 530, 911 591, 248 1, 246, 795 2, 810, 810	1,664,157 2,285,759 245,541 1,140,639 2,532,633
All other products	2, 334, 594	875,303	493, 256

Engines, steam, gas, and water (Table 36).—This table shows the number, by groups of indicated horsepower capacity, and the value of engines of the various types manufactured in 1919 and 1914. A notable development in this industry is indicated, not only by the general increase in the number and total rated horsepower capacity of engines reported, but by the obvious trend toward the construction of larger units of power.

TABLE 36.—ENGINES, STEAM, GAS, AND WATER: 1919 AND 1914.

		UMBE IORSEP					Indi-	
PRODUCT.	Un- der 10.	10 but under 50.	50 but un- der 100.	100 but un- der 500.	un-	1,000 and over.	cated horse- power capacity.	Value.
Total:							<u> </u>	
1919 1914	6,499 27,466	41, 159 5, 231	693 1,160	574 329	34 48	118 33	1,651,014 468,430	\$44,750,880 9,471,281
The engine industry: 1919 1914 Subsidiary products from other industries:	3,702 24,980	40,576 4,233	693 589	509 289	34 35	118 21	1,533,600 334,504	42,850,677 6,861,351
1919 1914	2,797 2,486	583 998	571	65 40	13	12	117, 414 133, 926	1,900,203 2,609,930
Steam engines: 1919 1914 Internal-combustion en-	151 102			188 100	34 29		403, 188 84, 902	12,759,736 1,199,169
gines: 1919 1914	5,445 10,038	7,045 4,533	196 200		···ii	7	332, 604 202, 284	7,528,724 3,224,263
Automobile: 1919 1914		4,648 2,016					92,727 67,603	1,155,004 209,122
Marine: 1919 1914	450 2,934	40 580					5,860 26,177	209, 219 534, 747
Stationary: 1919 1914 Portable and other:	2,268 7,104	2,357 1,937	186 168	¹ 184 97	···ii	₇	113,461 108,502	4,768,979 2,480,394
1919 1914 Traction engines (not loco-	2,727	::::::		112			120,556	1,395,522
motive): 1919	663	22,967 2 542	712	7			748,071 63,081	15, 351, 101 2, 114, 953
turbines: 1919 1914	240 17,326	10, 431 21	460 217		<u>.</u>	₁₁	167, 151 118, 163	713, 834 832, 029
Parts of engines: 1919 1919 Other foundry and ma-			 					2,466,025 619,535
chine-shop products: 1919 1914 All other products:								2,768,890 793,144
All other products: 1919								3, 162, 561 688, 188

¹ Includes group "500 but under 1,000."

Includes group "Under 10."

Petroleum, refining (Table 37).—This table presents the statistics for the various products of the petroleum-refining industry for 1919, 1914, and 1909. The figures show an increase for the period 1914 to 1919 of 46.5 per cent in quantity and 288 per cent in value of products. The average value of these oils, as a whole, was \$7 per barrel in 1919 as compared with \$2.65 in 1914, and \$2.30 in 1909. Gasoline and the naphthas constituted 46.4 per cent of the quantity of gas and oil produced; the fuel oils, 24.9 per cent; illuminating oils 18.2 per cent; and lubricating oils 10.6 per cent.

TABLE 37.—Petroleum, Refining: 1919, 1914, and 1909.

	1919	1914	1909
MATERIALS.	-		
Totalcost	\$31,958,077	\$ 9,924,445	\$8,144,583
Crude petroleum: Barrels (42 gallons) Cost	7, 364, 934 \$23, 525, 792	5,026,251 \$7 ,961,948	4,833,675 \$4, 987,558
Distillates purchased and rerun: Barrels Cost	215, 299 \$1, 880, 950	(1) (1)	(1) (1)
Casing head gasoline purchased: Barrels. Cost	66,055 \$ 621,149	(1) (1)	(1) (1)
Chemicals and filtering material, cost Containers and materials therefor, cost All other materials, cost	\$386,854 \$928,764 \$4,614,568	(1) \$416,286 \$1,546,211	(1) \$652, 487 \$2,504,538
PRODUCTS.			
Total value	\$ 43, 282, 801	\$11, 169, 189	\$ 10,753,738
Naphthas and lighter products: Gasoline—			
GallonsValue	112,624,051 \$21,212,560	41,076,200 \$3,568,834	26,991,400
GallousValue	12,918,803 \$2,537,857	3,307,200 \$167,483	\$2, 224, 283
GallonsValueFuel oils:	49, 228, 787 \$4, 793, 592	50,652,900 \$2,072,015	60,209,300 \$2,618,762
Distillates— GallonsValue	17, 114, 604 \$981, 324)	
Gas oils— GallonsValue	20,984,326 \$1,293,445	64,900,800 \$1,844,644	62,897,500 \$1,302,720
Residual fuel oils— GallonsValue	29,220,972 \$1,737,366)	
Lubricating oils: Gallons Value	28,745,834 \$5,503,207	21,042,150 \$1,900,185	27, 176, 300 \$2, 062, 387
Greases: Gallons	3,532,166 \$1,404,675	816,550 \$185,951	903,800 \$207,225
Paraffin wax: Gallons Value	5,136,396 \$1,385,244	2,819,750 \$410,929	2,726,800 \$470,760
Other refinery products, value	\$1,006,102 \$1,427,429	\$322,272 \$696,876	\$1,867,601
EQUIPMENT (CAPACITY, GALLONS).	1.		
Stills: Steam			
NumberCapacity	1,386,760	921, 242	1,116,738
Fire— Number Capacity	168 5, 135, 245	151 4,450,446	3,330,264
Pressure—————————————————————————————————	73 905,664	(1)	(1) (1)
Storage tanks for: Crude petroleum— Number. Capacity	18,757,000	20 14,126,000	61 21,521,000
Capacity		321 26,905,000	
Number Capacity	03	26,771,000	78,612,000
Other— Number. Capacity.	. 569 57,538,000	531 49,754,000	

¹ Figures not available.

The corresponding distribution percentages for 1914 and 1909 indicate the steadily increasing proportion of gasoline and naphthas produced, exceeding that offuel oil for the first time at the census of 1919.

Glass (Table 38).—This table shows the value of the various classes of glass products, and the kind and quantity of the principal varieties of pressed and blown glass and bottles and jars for 1919, 1914, and 1909. Of the establishments engaged in the manufacturing of glass in Ohio in 1919, 16 produced building glass, 20 pressed and blown glass, and 11 bottles and jars. Pressed and blown glass was the most important product of the glass industry in this state, forming 47.5 per cent of the total value of products in 1919.

Ohio ranks first among the states in the production of electric bulbs, shades, globes, and other gas and electrical goods, and beer, soda, and mineral water bottles; second in the production of tableware, jelly glasses, tumblers, and goblets, lamps, chimneys, blown tumblers, stem ware, and bar goods, and liquor bottles and flasks; and third in the manufacture of window glass and fruit jars.

TABLE 38.—GLASS: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	\$ 35, 240, 877	\$19,191,342	\$14,358,274
Building glass Pressed and blown glass Bottles and jars All other products	7,204,826	3,805,669	2,744,513
	16,740,016	6,490,498	6,160,707
	8,579,661	7,422,402	4,717,658
	2,716,374	1,472,773	735,396
Kind and quantity of pressed and blown glass and bottles and jars.		·	1100
Pressed and blown glass: Tableware, 100 pieces. Jellies, tumblers, and goblets, dozens. Lanfps, dozens. Chimneys, dozens. Lantern globes, dozens. Shades, globes, and other gas and elec-	676, 427	525, 573	248,815
	3,997, 554	3,050, 566	4,133,100
	226, 302	182, 449	50,147
	1,401, 609	1, 102, 386	1,215,815
	979, 107	318, 886	213,586
trical goods (excluding electric bulbs)	6,081,251	625,019	641,896
Blown tumblers, stem ware, and bar goods, dozens	2,820,669	1,739,548	2, 255, 805
	240,176	15,333	6, 000
Bottles and jars: Beer, soda, and mineral, dozens. Liquors and flasks, dozens. Fruit jars, gross. Fackers' and preservers', gross.	1,116,857	1, 220, 253	585,924
	257,503	545, 541	222,764
	240,707	73, 645	21,626
	294,542	299, 673	138,269

Agricultural implements (Table 39).—This table gives the value of the principal classes of agricultural implements manufactured in the state for 1919, 1914, and 1909.

Table 39.—Agricultural Implements: 1919, 1914, and 1909.

	1919	1914	1909
Total value	\$ 26, 5 56, 031	\$17,484,615	\$14, 440, 461
Plows and cultivators Harvesting implements Seed separators. Planters and seeders and all other agricul-	6,701,388 2,223,127 1,195,874	4,627,191 2,573,726 1,364,209	3, 062, 194 2, 675, 727 858, 106
tural implements, including parts. All other products. Amount received for repair work.	12,606,934 2,679,472 1,149,236	6, 156, 170 2, 379, 464 383, 855	7,536,850 307,584

The figures do not indicate any particular growth in this industry during the five-year period, although the total value of products increased 51.9 per cent. Plows and cultivators were the products of chief value.

forming 25.2 per cent of the total value of products in 1919. Ohio ranked fourth among the states in the manufacture of agricultural implements in 1919 and third in 1914.

Leather, tanned, curried, and finished (Table 40).— This table shows the quantity and cost of materials used and the quantity and value of the principal products for 1919, 1914, and 1909.

There was an increase of 29 per cent in the number, and 100.7 per cent in the cost of cattle hides treated in 1919, as compared with 1914. The value of products during the same period more than doubled. Upholstery leather for furniture, automobiles, and carriages was the product of chief value at each census. Sole and upper leather are shown in combination to avoid the possibility of disclosing the operations of inclividual establishments. Upper leather includes case, bag, and strap, rough, bookbinder's, belting, welting, saddlery, and finished splits.

Although the value has increased, due to the prevalence of higher prices at each succeeding census, the statistics indicate a steadily diminishing output of harness leather.

TABLE 40.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost	\$18,817,791	\$8,506,253	\$ 7,719,604
Cattle hides: Number Cost. All other raw stock, cost. Fuel and rent of power, cost. All other materials, cost.	594, 193 \$11,096, 508 \$4,283,842 \$193,028 \$3,244,413	460, 521 \$5, 530, 059 \$1, 668, 206 \$105, 086 \$1, 202, 902	514, 226 \$5, 179, 537 \$1, 157, 205 \$89, 269 \$1, 293, 593
PRODUCTS.			
Total value	\$25,008,070	\$11,627,916	\$10, 127, 836
Sole and upper leather, value Upholstery leather (automobile, furniture, and carriage), value Harness leather: Sides Value All other leather, value	\$9,771,961 \$7,820,184 219,455 \$3,157,361 \$3,849,187	\$3,789,369 \$3,404,590 335,127 \$2,802,957 \$1,135,467	\$1,903,510 \$3,734,827 363,981 \$2,540,892 \$1,682,630
All other products, value Work on materials for others, value	\$284,237 \$125,140	\$486,763 \$8,770	\$265, 27 \$70

¹ Does not include upper leather made from skins.

Laundries (Table 41).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 41, however, summarizes the statistics for such laundries in the state of Ohio for 1919 and 1914.

TABLE 41.—Power Laundries: 1919 and 1914.

	NUMBER O	R AMOUNT.	Per cent
	1919	1914	of in- crease, ¹ 1914- 1919.
Number of establishments	277	296	-6.
Persons engaged	8,316 273	8,434	-1. -11.
Salaried employees.	1,003	309 860	16.
Wage carners (average number)	7,040	7, 265	-3.
Primary horsepower	12, 107	10,909	11.
Carital	\$8,209,509	\$ 5,066,162	62.
Salaries and wages Salaries	6, 122, 025	3,996,649	53.
Wages	1,418,357 $4,703,668$	539, 455 3, 157, 194	69. 6 49. 6
Paid for contract work	64,089	2,555	2,408.
Reill and layes	315,093	180,002	75.
Cost of materials	2,874,537	1,361,546	111.
Amount received for work done	12,528,344	7,822,491	60.

¹ A minus sign (-) denotes decrease.

Dyeing and cleaning (Table 42).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 42.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.	172
Persons engaged	2,113
Proprietors and firm members	165
Salaried employees	354
Wage earners (average number)	1,594
Primary horsepower	2,714
Capital	\$2,630,374
Salaries and wages	2,011,590
Salaries	483,300
Wages	1,528,284
Paid for contract work	10,518
Rent and taxes	180,742
Cost of materials	893,346
Amount received for work done	4,657,055

Custom sawmills and custom gristmills (Tables 43 and 44).—Statistics for custom sawmills and custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for these custom mills were not collected at the census of 1914.

Tables 43 and 44, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom sawmills represents the amount charged for work performed, and that for custom gristmills the selling value of the grain milled.

TABLE 43.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR	Per cent	
-	1919	1909	of in- crease, 1909– 1919.
Sumber of establishments	262	262	
Persons engaged	478	732	-34.
Proprietors and firm members	337	340	-0.
Salaried employees	141	391	-63.
rimery horsenower	5,898	5,398	
rimary horsepower apital.	\$325, 159	\$336, 846	9. -3.
alaries	4020,100	150	1
Vages.	107, 626	107,849	-0.
lent and taxes	3, 292	(2)	
ost of materials	31,668	3,980	695
amount received for work done	290,022	286, 189	1.

¹ A minus sign (-) denotes decrease; percentages are omitted where base is less than 100.
² Figures not available.

TABLE 44.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OF	Per cent	
	1919	1909	of in- crease,1 1909- 1919.
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Rent and taxes. Cost of materials 3. Value of products 3.	350 190	152 301 199 7 5,125 \$503,988 32,860 2,842 30,018 (2) 981,496 1,189,853	12. 8 16. 6 -4. 8 11. 6 217. 7 365. 8 1,092. 4 297. 0 151. 1 151. 2

¹ A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.
² Figures not available.
³ Includes estimate of all grain ground.

GENERAL TABLES.

Table 45 gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for selected industries in the state and in the cities of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, and Youngstown, and for each of the cities in the state having from 10,000 to 50,000 inhabitants, for which comparative figures are available, similar data for all industries combined.

Table 46 presents, for 1919, for the state as a whole and for Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Springfield, Toledo, and Youngstown, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and the statistics for all industries combined for each of the cities in the state having from 10,000 to 50,000 inhabitants.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish-	Wage earn- ers (aver- age	Pri- mary horse- power.	Wages.	Cost of materials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.		Wage earn- ers (aver- age	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod-
		ments.	num- ber).	•	E	xpressed thousand	in s.			ments.	num- ber).			xpressed housands	
		đ .	THE S	TATE—	ALL IN	DUSTRI	ES COMP	BINED AND SELECTI	ED 13	NDUST	RIES.				
All industries	1919 1914 1909	16, 125 15, 658 15, 138	510, 435	2,897,497 1,993,080 1,583,155	317,924	1.020.7821	\$5,100,309 1,782,808 1,437,936	Butter, cheese, and con- densed milk.	1919 1914 1909	267 286 325	2,132 1,480 1,067	10,401 6,677 3,386	\$2,290 1,049 557	\$50,415 15,968 7,685	\$60,013 19,326 9,690
Agriculturalimplements	1919 1914 1909	46 59 55	4,931 5,464 5,997	10,470 11,677 9,867	5,675 3,826 3,155	12,967 7,810 6,319	26, 556 17, 485 14, 440	Canning and preserving ³	1919 1914 1909	124 135 107	2,951 2,507 2,009	7,105 7,079 4,2 11	2,065 946 532	11, 515 5, 897 3, 102	17, 290 8, 951 4, 660
Aluminum manufactures.	1919 1914	20 8	1,840 216 721	4,721 592 1,932	2,747 122 830	6,673 245 1,405	11,132 515 2,993	Carriages and wagons and materials.	1919 1914 1909	152 341 407	2, 213 5, 997 8, 815	5, 361 13, 381 14, 771	2,255 3,839 4,647	5,654 8,561 11,414	10, 946 16, 192 21, 949
Artificial stone products	1919 1914 1909	339 403 299	954 802	2,949 1,325 79.039	535 404 63,410	763 499 250, 981	1,946 1,378	Cars and general shop construction and re- pairs by electric-rail-	1919 1914 1909		1,903 1,879 1,318	2, 545 3, 687 3, 635	2,270 1,228 722	2, 116 1, 077 801	4,725 2,3% 1,691
Automobiles, including bodies and parts.	1919 1914 1909	281 102 75	45,882 18,752 12,130	30,249 14,433	13,411 7,746	55, 330 18, 522 3, 736	379, 436 85, 711 38, 839 6, 937	road companies. Cars and general shop construction and re- pairs by steam-rail-	1919 1914 1909		35, 245 21, 639 20, 728	50,650 31,389 19,422	50,694 9,471 12,726	39, 590 16, 654 14, 266	96, 454 33, 286 28, 690
Awnings, tents, and sails	1914	41 38 30	851 615 392 694	1,732 348 260 785	299 163	1,270 853 9,139	2,131 1,387	road companies. Cars, steam-railroad, not including opera- tions of railroad com-	1919 1914 1909	8	2, 177 2, 885 2, 282	12,685 6,420 4,410	3,336 2,434 1,304	21,315 8,558 4,195	28, 146 11, 796 6, 451
Bags, paper, exclusive of those made in paper mills.	1909	11 9 8	646 557 102	853 508	305 240 107	1,831 1,638 1,138	2,893 2,393 1,550	panies.	1919 1914 1909	6 7 9	655 849 887	13, 514 6, 975 12, 685	975 521 544	1,514 890 638	3,339 2,112 1,465
Belting, leather	1919 1914 1909	10 10 8	78 107 171	216 405 258	56 80	543 795 1,093	730 1,080 2,469	Chemicals	1919 1914	37 29	3,670 2,017	35, 049 18, 751 11, 715	5, 474 1, 460 749	15, 298 6, 726 4, 748	32.719
Blacking and cleansing and polishing prepa- rations.	1914	54 49	104 103	237 297 9, 463	53 50 12,743	339 297 41,913	798 672 72,970	Clothing, men's, includ- ing shirts.	1 731-4	278 257	1,132 11,839 10,758	3,038 2,948	10,079 4,903	33, 830 13, 756	65, 559 27, 622 24, 869
Boots and shoes, includ- ing cut stock. 1	1919 1914 1909	67 73 72	14, 360 14, 674 16, 026	9, 945 8, 925	7,132 6,646	19, 883 18, 872	33,642 31,551	Clothing, women's	1909	175	9,950 8,258	1,794 2,008	8,642	26,077	48, 704 22, 882
Boxes, paper and other, not elsewhere speci- fied.	1919 1914 1909	58 49 46	2, 952 2, 456 2, 530	2,893 1,941 1,825	2,035 961 830	4,805 2,087 1,931	10,030 4,060 3,635		1914	153	9,775 8,843	1,719 1,505 3,105	4,272	10, 291	19, 493 29, 271
Brass, bronze, and cop- per products.	1010		4, 264	10, 915 4, 393 4, 214	5,894 1,557 1,372	16, 178 4, 190 3, 533	27, 802 7, 843 6, 572	Coffee and spice, roast- ing and grinding.	1914	35 39	1,088 822 762	2,062 2,186	385 352	10, 184 8, 277	13, 312 11, 224
Bread and other bakery products.		1,621 1,634	9,091 7,665	12, 582 8, 978	9,906 4,783	49, 956 17, 295 13, 666	78, 819 30, 561 23, 007	Coffins, burial cases, and undertakers' goods.	1919 1914 1909	19 24	1,148 1,252 1,245	1, 983 2, 268 2, 289	525	1,294 1,324	2, 966 3, 061
Brick, tile, pottery, and other clay products.2	1919	436 549	23, 399 27, 334	73, 894 76, 432	16,487	18,973 12,176 8,665		Coke, not including gas- house coke.	1919 1914 1909	5	3,407 489 246	43, 119 2, 325 1, 250	352	1,607 640	2, 157 851
Brooms, from broom		79	341 345	352 377	155			Confectionery and ice cream.	1914	292	5,451 3,965	14,385 8,332	1,784	8,363	
Brushes	1919 1914 1909	19	677	848	298	732	1,544	Cooperage and wooden goods, not elsewhere specified.	1919 1914 1909	95	1,032 1,516 1,663	3,060 4,037 3,453	518	2,547	

Includes "boot and shoe findings" in 1914 and 1909.

Excludes "sand-lime brick" in 1919 and 1914.

The lands "canning and preserving, fruits and vegetables," and "pickles, preserves and sauces" for all years; but excludes "canning and preserving, fruits and vegetables," and "pickles, preserves and sauces" for all years; but excludes "canning and preserving, fruits and vegetables," and "pickles, preserves and sauces" for all years; but excludes "canning and preserving, fish," for 1919 1914, to avoid disclosure of individual operations.

Includes "chewing gum" in 1914.

Table 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

	Cen-	Num- ber of	Wage earn- ers	Pri- mary	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod ucts.
INDUSTRY AND CITY.	sus year.	estab- lish- ments.	(aver- age num- ber).	horse- power.	I	Expressed thousand			year.	lish- ments.	age num- ber).	power.		xpressed i housands	
		тне	STATE	-ALL 1	NDUST	TRIES C	OMBINE	D AND SELECTED IN	DUST	RIES-	Continu	ed.			
Copper, tin, and sheet- iron products. ¹	1919 1914 1909	325 288 221	9,092 7,448 6,598	11, 246 8, 483 6, 352	\$9,338 4,500 3,163	\$26,550 14,450 11,622	\$48,256 25,059 19,086	House-furnishing goods, not elsewhere speci- fied.	1919 1914 1909	29 26 22	340 320 364	793 895 1,069	\$245 162 143	\$1,427 996 924	\$2, 1, 1,
Cordials and flavoring sirups.	1919 1914	8	106 110	89 96	100 46	1,403 536	2,090 890	Ice, manufactured	1919 1914 1909	141 132 97	1,952 1,277 892	34, 930 27, 978 19, 058	2,618 904 559	2,898 876 564	10, 3, 2,
Cutlery and tools, not elsewhere specified.	1919 1914 1909	168 81 70	8,624 3,199 2,820	16, 236 8, 079 6, 567	11, 430 1, 898 1, 518	11,696 1,961 1,650	36,782 6,612 5,036	Ink, printing	1919 1914 1909	8 7 8	397 254 183	2, 184 1, 913 1, 437	515 196 131	3, 574 1, 354 809	5 2 1
Dairymen's, poultry- men's, and apiarists' supplies.	1919 1914 1909	14 18 18	445 442 479	698 1,002 916	430 233 262	2,056 722 527	3,471 1,277 1,149	Instruments, profes- sional and scientific.	1919 1914	20 28	601 457	415 436	534 254	338 247	1
Oyeing and finishing textiles, exclusive of that done in textile	1919 1914	6 5	339 382	3, 551 4, 100	384 191	744 414	1,514 706	Iron and steel, blast furnaces.	1919 1914 1909	42 33 40	9, 793 5, 786 7, 295	359, 224 232, 179 215, 739	20, 224 5, 171 5, 090	137, 686 60, 739 68, 425	179 72 83
mills. Electrical machinery, apparatus, and sup- plies.	1919 1914 1909	189 119 115	26,672 12,695 8,073	42,753 17,771 11,959	30,652 7,409 3,847	72, 297 17, 482 7, 226	156, 924 36, 121 18, 777	Iron and steel, steel works and rolling mills.	1919 1914 1909	86 70 75	73, 025 46, 397 38, 586	865, 036 642, 958 515, 813	137, 281 38, 004 28, 614	381, 060 139, 676 139, 243	626 207 197
Explosives	1919 1914 1909	12 11 11	304 311 358	4,086 5,646 2,692	417 188 204	1,474 972 1,104	2,790 1,439 1,719	Iron and steel, bolts, nuts, washers, and rivets, not made in	1919 1914 1909	23 15 17	4,778 2,365 2,797	11,053 6,167 4,782	6,020 1,323 1,336	10, 349 2, 602 3, 421	2
Fertilizers	1919 1914 1909	23 24 27	1,197 1,005 841	7, 179 4, 739 3, 059	1,501 590 368	8,071 4,627 2,535	14,042 7,246 4,435	rolling mills. Iron and steel, forgings, not made in steel works or rolling mills.	1919 1914 1909	38 29 30	5,931 2,308 2,002	21,030 7,440 4,912	7,623 1,570 1,117	18,686 3,937 2,221	35
Flags, banners, regalia, society badges, and emblems.	1919 1914 1909	21 17 13	1,017 1,074 1,262	552 487 568	813 531 523	1,937 1,203 1,509	4,420 2,605 3,026	Iron and steel, wrought pipe.	1919 1914 1909	8 5 5	4,434 2,285 1,081	10,289 3,193 3,770	7,210 1,535 640	23,730 6,152 2,507	3
Flavoring extracts	1919 1914	44 34	325 109	419 183	347 47	4,800 417	6,596 908	Jewelry	1919 1914 1909	52 57 35	658 477 356	297 348 116	619 337 252	1,769 403 619	
Flour-mill and gristmill products.	1919 1914 1909	577 649 673	2,122 2,363 2,585	47, 830 53, 524 52, 250	2,439 1,506 1,415	77,102 38,957 41,353	89,397 45,171 48,093	Knit goods	. 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	1
Food preparations, not elsewhere specified.	1919 1914 1909	98 76 61	1,857 1,523 1,020	10,256 5,709 3,254	2,107 827 455	37,414 20,035 8,271	46,340 27,346 10,837	Labels and tags	. 1919 1914	9 7	228 92	244 63	216 44	550 122	
Foundry and machine- shop products. ²	1919 1914 1909		114,299 73,103 64,817	266, 208 159, 172 112, 588	48,318	248, 275 77, 503 64, 560	572, 079 178, 855 145, 837	i H	. 1919 1914 1909	141 187 86	1,241 1,743 1,890	946 1,437 1,399	1	4,451 3,473 2,859	
Foundry supplies	1919 1914	28 15	213 120	2,008 1,016		1,963 241	. 549	ried, and finished.	1919 1914 1909		1,565 1,605 1,884	5,063 4,450 4,244	1.054	18,818 8,506 7,720	
Fur goods	. 1919 1914 1909	25	207 136 167	236 41 12	100	149	42:	Lime	1919 1914 1909	38	1,191 1,416 1,273	7,374	777	1,701 706 598	
Furnishing goods, men's.3	1919 1914 1909	51	553 2,667 2,568	212 867 917	723	2,700	4,23	6 Liquors, mait	1919 1914 1909	101		38,048	4,416	7,096 9,190 6,563	
Furniture and refriger- ators.	1919 1914 1909	213	8, 481 7, 831 8, 232	17, 287 16, 317 15, 95	8,662 4,469 1 4,143	J 7,421	9 16,68	7 Looking-glass and pic ture frames.	1	18	519	662	462	852 331	
Gas and electric fix- tures and lamps and reflectors.	1919	49 52	1, 934 1, 832 1, 437	4, 013 2, 868 2, 350	1 .	5,91	$0 \mid 4,89$	9 3	1919 1914 r 1919	8	73	134	46	356	
Glass	1919 1914	44 39	10, 935 10, 997	37, 83 34, 87	$\begin{bmatrix} 12, 11 \\ 7, 05 \end{bmatrix}$	2 12,653 3 7,04	$6 \mid 19.19$	8	191: 190:	1,188 1,390	11, 921 13, 456	69,25	7,104 6,701	18,017	
Glass, cutting, staining and ornamenting.	, 1919 , 1919	37	532 481	40	5 47	2 1,40	0 2,56	6 except slate.	191 191 190	1 213	2,523	10 35	3 1,636	2,049	
Grease and tallow, not including lubricating greases.	1919	54 4 34	711 400		4 86 0 27 4 17	0 67	1 1,21	Mattresses and sprin beds, not elsewher specified.	g 191 191 190	4 43	934	1 2,22	8 500 9 435	1,682	
Grindstones	191 191 190	4 10	546	2,95 1,86	0 47 6 25	5 6	1 48	8 goods, not eisewher	e 191 e 191 190	4 30	911	i 40	9 433	1,005 1,45	
Hats and caps, other than felt, straw, and wool.	1 191	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	431 406	5 8	8 22 3 17	4 57 4 42	2 1,04	6 Mineral and soda wate 0 H re, not elsewhere specified.	191 190	4 202	578	5 1,05	9 342	3,255 860 455	

¹ Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."

1 Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."

2 Includes "automobile repairing"; "bells"; "engines, steam, gas, and water"; "gas machines and gas and water meters"; hardware"; "hardware, saddlery"; "iron and steel, cast-iron pipe"; "iron and steel, tempering and welding"; "machine tools," "plumbers' supplies, not elsewhere specified"; "pumps, steam and other power"; steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks, portable"; and "structural ironwork, not made in steel works or rolling mills."

1 Includes "suspenders, garters, and elastic woven goods," but excludes "collars and cuffs," to avoid disclosure of individual operations.

1 Includes "saddlery and harness" and "trunks and valises," but excludes "pocketbooks," to avoid disclosure of individual operations.

1 Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens and weather strips."

Table 45.—Comparative summary for selected industries and for cities: 1919, 1914, and 1909—Continued.

INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary	Wages.	Cost of materials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary	Wages.	Cost of materials.	Value of prod- ucts.
AND USTRY AND CITY.	year.	lish- ments.	age num- ber).	horse- power.		xpressed thousands		INDUSTRI AND CITE	year.	lish- ments.	age num- ber).	horse- pawer.		xpressed i housands	
		THE	STATE	-ALL I	NDUST	RIES CO	MBINEL	AND SELECTED IN	DUST	RIES-	Continu	ed.			and the second second
dinerals and earths, ground or otherwise treated.	1919 1914 1909	44 19 4	1,960 433 64	24,006 3,967 1,340	\$2,348 227 34	\$2,219 352 223	\$6,861 780 331	Salt	1919 1914 1909	5 8 8	535 813 648	8,259 4,937 4,934	\$675 441 361	\$1,380 1,204 1,000	\$2,669 2,197 1,807
dirrors, framed and un- framed, not elsewhere specified.	1919 1914 1909	10 11 8	243 115 94	312 246 198	148 76 56	712 163 182	1,099 361 291	Screws, machine	1919 1914 1909	19 7 6	4,226 1,464 324	10,504 2,885 915	5,043 942 204	5,309 1,368 178	16,59 3,27 59
fodels and patterns, not including paper patterns.	1919 1914 1909	138 98 74	1,192 519 441	6,731 1,036 673	1,915 393 294	1,704 183 159	5,460 896 670	Shipbuilding, including boat building.	1919 1914 1909	28 29 39	11,412 2,879 3,200	14,219 9,661 8,125	19,665 1,939 1,705	23,902 1,909 2,462	57, 48 4, 71 5, 67
Actorcycles, bicycles, and parts.	1919 1914 1909	9 9 6	2,480 752 942	4,289 1,951 1,895	3,339 518 686	5,130 1,634 1,066	10,874 2,931 2,308	Show cases	1919 1914 1909	13 11 14	273 302 349	804 711 569	278 178 173	557 280 307	1,17 61 66
Musical instruments, pianos and organs, and materials.	1919 1914 1909	22 27 30	1,820 1,745 1,841	2,747 2,201 2,254	1,840 1,022 1,092	3,154 1,673 1,922	6,797 3,545 3,926	Signs and advertising novelties.	1919 1914 1909	70 50 28	1,907 1,372 1,096	2,161 1,800 1,125	1,605 734 505	3,167 1,744 941	7,90 3,55 2,59
Oil, Iinseed	1919 1914 1909	3 3 4	270 150 213	1,516 1,603 1,347	275 116 83	7,761 3,642 3,081	9,369 3,958 3,627	Slaughtering and meat packing.	1919 1914 1909	171 169 158	5,605 3,619 3,086	21,205 13,037 9,873	7,116 1,488 1,857	154,796 59,681 44,347	175,69 66,67 50,80
Oil, not elsewhere speci- fied.	1919 1914 1909	21 20 21	302 138 157	597 495 330	366 105 102	6,546 1,888 1,252	8,986 2,676 2,037	Smelting and refining, not from the ore.	1919 1914 1909	7 8 6	88 89 57	130 697 280	109 86 41	1,682 311 174	2,2 5 3
Optical goods	1919 1914 1909	31 20 17	365 175 67	176 102 43	371 103 42	806 216 109	1,885 617 274	Sporting and athletic goods. Stationery goods, not	1919 1914 1919	11 9 12	762 531 766	590 411 754	662 254 769	1,198 432 2,162	2,8 9 4,6
Paint and varnish	1919 1914 1909	94 95 87	2,929 2,107 1,535	10,450 8,721 5,572	3,186 1,295 904	32,307 11,339 8,570	50,478 19,327 13,617	elsewhere specified. Stereotyping and elec-	1914 1909 1919	15 14 17	708 982 488	1,118 2,130 1,350	394 383 544	906 996 822	2, 1 2, 4 1, 9
Paper and wood pulp	1919 1914 1909	49 48 47	6,899 5,430 4,673	64, 420 50, 013 51, 402	8,094 3,378 2,419	35,710 16,109 10,898	55,098 23,284 16,965	trotyping. Stoves and hot-air fur-	1914 1909	16 14 101	306 207 10,398	952 323 13,065	238 143 12,951	223 171 21,628	48,6
Paper goods, not else- where specified.1	1919 1914 1909	29 29 28	2,776 2,269 2,040	4,919 3,702 1,909	2,507 1,179 882	11,888 4,197 3,434	21, 261 8, 148 6, 307	naces, including gas and oil stoves. Sugar, beet		105 102 5	8,575 7,274 630	10,648 9,478 7,180	5,751 4,217 1,127	8,415 6,300 5,108	19,9 15,3
Patent medicines and compounds and drug- gists' preparations.	1919 1914 1909	267 252 261	1,695 1,032 905	1,670 1,949 1,568	1,297 479 385	7,415 3,018 1,888	18, 922 7, 734 5, 859	Surgical appliances and artificial limbs.	1914 1919 1914	34 32 23	282 291 162	3,520 142 59	209 228 93	505 150	2,6 1,1
Paving materials	1919 1914 1909	77 66 5	966 1,957 56	23,303 23,885 374	896 1,169 33	1,041 723 68	2,952 3,507 210	Tobacco, cigars and cigarettes.	1909 1919 1914	676 937	10,995 12,025	58 696 581	7,182 4,799	13,116 7,129	28,8 17,3 28,9
Petroleum, refining	. 1919 1914 1909	11 7 10	2,431 1,519 1,659	7, 383 4, 920 4, 324	3,246 1,025 1,028	31,958 9,924 8,145	43,283 11,169 10,754	Toys and games	1909 - 1919 1914	1,146 59 36	12,631 1,525 1,103	1,401 2,246 941	4,505 1,225 520	12,075 1,918 799 379	4,7 1,9
Photo-engraving	. 1919 1914 1909	30 26 20	417 411 277	280 366 215	647 396 242	277 170 109	1,813 974 576	Umbrellas and canes	. 1919 1914	19 10 13	387 208 267	253 53 184	175 133 101	918 480 607	1,
Poultry, killing and dressing, not done in slaughteringandmeat packing establish	-		105 46	105 45		1,681 440	1,917 498	Wall plaster and com- position flooring.	1914	22	287 689 626 259	3,617	908 370 106	2,257 770 434	4,
ments. Printing and publishing.3	1	1,783	19, 174 18, 070 15, 756	27, 268 24, 308 18, 417	21,665 12,800 9,355	17,070	112,029 55,609 41,657	Washing machines and clothes wringers.	1909 1919 1914	15	477 171	767 416	511 91	2,033 348	2,
Pumps, not including power pumps.		20 17	1,265 1,014	2,127 1,403	1,401 639	2,767 1,404	7,393 3,277 2,747	Wirework, including wire rope and cable, not elsewhere specified.	1914		1,822 810 1,455	2,511	2,110 456 823	4,335 2,167 1,806	1
Roofing materials	1919 1914 1909	18	1,138 715 428	7,249 2,076 3,229	1,432 429 251	2,319	12,785 3,906 3,900	Wood preserving	. 1919 1914 1919	47	892	446 4,610	504 119 874	2,313 585 1,931	3, 2,
Rubber tires, tubes, and rubber goods, not else where specified.	1 1919	96 1 54	63,637	170,402 58,672 25,885	14,578	299, 363 58, 737 32, 442	551,118 109,659 53,911	carved.	1914 1909 1919	61 83 787	985 1,208 49.746	4,250 4,811 110,100	520 533 55,098	1,286 1,063 239,579	2, 398,
Safes and vaults	1919 1914 1909	1 10	1,821 1,760 2,014	1 3,000	1,100	3,440 1,483 2,162	9,478 4,337 5,488		1914 1909	759 986	38,949 38,583	82,515 70,108	22,801 19,66-	84,678 75,178	143,

¹ Includes "envelopes."
2 Includes "perfumery and cosmetics."
3 Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."
4 Includes "sausage."
5 Includes "tobacco, chewing and smoking, and snuff" in 1909.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage carn- ers (aver-	Pri- mary	Wages.	Cost of materials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary	Wages.	Cost of mate- rials.	Value of prod- ucts.
	year.	lish- ments.	age num- ber).	horse- power.		Expressed thousand	in s.		year.	lish- ments.	age num- ber).	horse- power.		Expressed thousands	
CIT	IES (OF 50,0	00 INH	ABITAN	TS OR	MORE-	-ALL IN	DUSTRIES COMBINEI	AN	SEL:	ECTED	iņdus'	TRIES.		
AKRON	1919 1914 1909	304 305 246	65,054 24,680 15,831	$\begin{array}{c} 174,812 \\ 65,942 \\ 36,263 \end{array}$	\$94,779 17,310 8,936	\$314,372 66,062 43,071	\$558,962 122,292 73,158	CINCINNATI All industries.	1919 1914 1909	2, 239 2, 135 2, 183	69,680 59,861 60,182	121,526 106,689 88,522	\$68,650 33,159 31,097	\$296, 280 114,107 101, 407	\$500,041 210,860 192,516
Artificial stone products	1919 1914 1909	16 15 10	49 19 30	96 37 16	61 13 15	73 16 15	172 44 41	Boots and shoes, includ- ing cut stock and find- ings.	1919 1914 1909	32 34 32	6,777 7,295 7,989	3,948 4,195 4,631	6,314 3,716 3,518	17, 928 8, 322 8, 584	32,694 15,329 14,999
Bread and other bakery products.	1919 1914 1909	50 41 25	434 183 - 90	483 280 105	529 126 58	2,731 443 255	4,212 719 417	Boxes, cigar	1919 1914 1909	5 5 8	127 139 222	152 268 405	80 62 82	154 106 177	344 226 347
Brick and tile, pottery, and other clay prod- ucts.	1919 1914 1909	13 15 18	872 1,048 1,172	3,367 2,966 2,902	982 612 600	805 515 443	2,402 1,488 1,491	Boxes, paper and other, not elsewhere speci- fied.	1919 1914 1909	19 17 15	808 753 669	761 570 218	526 263 185	1, 243 487 292	2,645 1,016 679
Copper, tin, and sheet- iron work.	1919 1914	14 5	145 53	68 27	189 43	394 60	780 132	Boxes, wooden packing, except eigar boxes.	1919 1914	10 8	360 244	1,163 973	330 133	1,097 375	1,791 647
Foundry and machine- shop products.	1919 1914 1909	44 34 26	3,269 1,552 969	11,457 4,352 2,015	4,671 1,133 650	5,909 1,699 1,062	16,147 3,947 2,248	Brass, bronze, and cop- per products.	1919 1914 1909	13 12 14	816 556 563	1,039 708 424	856 346 329	1,477 506 385	3,642 1,187 995
Liquors, malt	1919 1914 1909	3 3 3	185 184 81	2,662 1,732 1,522	264 136 57	391 308 170	1,776 1,352 645	Bread and other bakery products.	1919 1914 1909	182 177 187	1,745 1,669 1,340	1,426 1,524 909	1,579 925 723	8,919 3,690 3,034	14,140 6,386 5,103
Lumber, planing-mill products, not includ- ing planing mills con- nected with sawmills. ²	1919 1914 1909	13 10	253 367 319	991 1,280 989	407 245 191	1,728 883 437	2,684 1,326 792	Carriages and wagons and materials.	1919 1914 1909	28 75 74	458 1,761 2,250	921 2,788 2,523	439 1,203 1,295	1,560 3,126 3,702	2,527 5,565 6,825
Printing and publish- ing. ³	1919 1914 1909	33 37 27	807 800 734	1,370 1,027 934	969 534 452	2,415 685 597	4,990 1,938 2,353	Cars and general shop construction and re- pairs by steam-rail- road companies.	1919 1914 1909	10 6 3	1,523 747 314	1,022 1,023 590	2,448 564 203	1,293 341 111	4,027 971 328
Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919 1914 1909	22 18 14	53,806 17,468 9,015	134,609 43,886 20,225	78,577 12,296 5,065	257,333 49,063 29,630	462,093 92,547 49,329	Chemicals	1919 1914 1909	9 11 11	174 81 122	1,292 493 508	167 51 76	553 362 474	1,518 618 899
Stoves and hot-air fur- naces.	1919 1914 1909	3 4 5	400 362 334	1,105 900 610	610 264 228	625 228 245	1,814 888 754	Cleansing and polishing preparations.	1919 1914	12 7	29 20	46 36	24 8	238 73	478 205
All other industries	1919 1914 1909	98 120 108	4,834 2,644 3,087	18,604 9,455 6,945	7,520 1,908 1,620	41,968 12,162 10,217	61,892 17,911 15,088	Clothing, men's, in- cluding shirts.	1919 1914 1909	117 115 183	6,260 5,477 5,718	1,666 1,628 559	5,104 2,668 2,512	19,272 7,421 8,680	36,503 15,105 16,975
CANTON	1919 1914 1909	287 276 204	20,336 12,255 9,964	52,933 43,071 27,016	29, 122 8,550 5,719	65,078 21,808 14,644	124,293 43,713 28,583	Clothing, women's	1919 1914 1909	34 26 26	908 1,137 1,325	160 167 176	960 616 619	2,968 1,370 1,514	5, 135 2, 567 2, 913
Agricultural implements.	1919 1914 1909	4 4 5	301 271 283	449 326 442	371 194 127	572 543 401	1,455 1,105 819	Coffee and spice, roast- ing and grinding. Copper, tin, and sheet-	1919 1914 1909	12 7 8 39	351 227 221 1,497	954 657 691 1,855	280 107 91 1,382	4,927 1,782 1,595 6,236	6,612 2,286 2,110 9,633
Bread and other bakery products.	1919 1914 1909	33 25 19	165 131 59	281 116 38	201 66 34	1,042 203 147	1,561 421 253	iron products.5	1914 1909 1919	48 37 24	1,139 833 542	1,495 1,154 922	712 413 573	3,548 1,633	5,570 2,775 2,613
Confectionery and ice cream.	1919 1914	13 12	120 57	289 114	96 35	371 65	711 180	apparatus, and sup-	1914 1909	16 13	319 313	329 397	191 2 ₀ 0	469 333	902 836
Foundry and machine- shop products.	1919 1914 1909	61 47 32	2,683 2,153 1,748	6,118 3,420 3,409	3,122 1,400 1,005	7,211 2,634 2,267	15,442 8,042 4,891	Flavoring extracts Flour-null and gristmill	1919 1914 1919	14 10 6	135 43 38	224 57 690	137 22 47	1,901 190 1,010	2,644 439
Iron and steel, steel works and rolling	1919 1914	6 6	10,128 3,799	30,846 28,428	16,861 3,245	35,367 10,209	63,374 16,887	products.	1914 1909	7 6	43 52	725 685	35 38	1,036 957	1,208 1,153 1,083
mills. Lumber and timber products.	1919 1914 1909	12 10 3	169 46 46	531 272 180	231 34 29	1,845 52 95	2,644 128 135	Food preparations, not elsewhere specified. Foundry and machine-	1919 1914 1919	14 12 278	149 60 14,118	550 187 25, 574	130 32 15,642	713 218 22, 291	1,093 313 63,385
Printing and publishing,	1919 1914 1909	19 21 17	199 251 161	276 275 185	282 193 88	331 305 78	1,143 775 293	shop products. ² Grease and tallow, not	1914 1909 1919	228 200 8	9,055 8,534 242	25,574 17,578 12,590 624	5,789 4,985 286	22,291 7,741 7,044 1,437	03,385 21,122 18,380 2,105
Signs and advertising novelties.	1919 1914	7 7	85 42	3 5	33 24	26 18	92 71	including lubricating greases.	1914	6	158	397	104	158	2, 105 319
Tobacco, cigars and cigarettes.	1919 1914 1909	9 16 19	14 40 70	1	9 16 27	13 27 42	29 65 106	Hats and caps, other than felt, straw, and wool.	1919 1914 1909	12 14 12	247 239 260	29 29 33	181 121 112	729 344 284	1,271 608 532
All other industries	1919 1914 1909	•	6,472 5,465 7,597	14,139 10,115 22,762		18,300 7,752 11,614	37,842 16,039 22,086	Ice, manufactured 'structural ironwork, not i	1919 1914 1909	16 14 8	206 230 129	5, 355 5, 048 3, 229	267 155 81	323 172 124	1,364 472 355

¹ Includes "automobile repairing" and "iron and steel, welding," in all years; "structural ironwork, not made in steel works or rolling mills," in 1919 and 1914; and "engines, steam, gas and water"; "hardware"; and "hardware, saddlery," in 1914 and 1909.

2 Includes "lumber and timber products" in 1914 and "window and door screens" in 1914 and 1909.

3 Includes "bookbinding and blank-book making" and "lithographing" in 1914 and 1909.

4 Includes "automobile repairing"; "bells"; "engines, steam, gas, and water"; "hardware, saddlery"; "pumps, steam and other power"; "iron and steel, welding"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills" in all years; and "hardware," and "plumbers supplies, not elsewhere specified," in 1914 and 1909.

4 Includes "stamped and enameled ware, not elsewhere specified," and "tinware, not elsewhere specified."

4 Includes "automobile repairing"; "engines, steam, gas, and water"; "gas machines and gas and water meters"; "hardware"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks, portable"; and "structural ironwork, not made in steel works or rolling mills," in all years; "pumps, steam and other power," in 1919; and "bells," in 1914 and 1909.

Table 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

CINCINNATI— COINCINNATI— COINCI	INDUSTRY AND CITY.	Cen-	estab-	(aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- uets.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary horse-	Wages.	Cost of materials.	Value of prod- ucts.
CINCINNATI Jenstly		year.								year.	lish- ments.			1	Expressed thousand	in s.
Continued	CITIES	OF 50	,000 IN	навіт	ÁNTS O	R MOR	E-ALL	INDUST	RIES COMBINED AND	SEL	ECTEI	INDU	STRIES-	-Contin	ued.	
Leather goods 1. 1919 11 1 101 135 406 251 193 193 145 250 193 193 1, pg. Leather, tanned, cur- ricel, and finished. 1914 12 753 2, 302 477 700 1, pg. Leather, tanned, cur- ricel, and finished. 1914 12 753 2, 302 478 3, 564 5, 568 1914 12 753 2, 302 478 3, 564 5, 568 1915 13 807 7, 200 77 8, 567 5, 569 1916 13 807 7, 200 77 8, 567 5, 569 1916 13 807 7, 200 77 8, 567 5, 569 1916 13 807 7, 200 77 8, 567 5, 569 1917 1, 100 11,	Continued.	1914	24	288	213	193	226	729	Continued. Automobiles, including	1914	36	7,006	10,867	5.371	14,732	27,117
Leiper, fanned, employed and finished lines and finished lines and finished lines and finished lines and spring lines and spr	Leather goods 1	1919 1914	11 13	101 416	135	90 193	501 928	824 1,548		1919	9	329	318	329	1,128	
Lumber plansing multiple 1918 22 217 27 27 1,658 27 28 28 31 1,672 1,472	Leather, tanned, curried, and finished.	1914	12	755	2,382	474	3,954	10,094 5,426	and polishing prepara-	1914	18	46	97	26	162	375
products, not included with summilist connected with summilist connecte	Liquors, malt	1914	17 20 22	1.727	13, 114	1,549	2,944	10, 353	Boxes, cigar	1914	4	54	35	23 21 19	44	82
Matricases and apring bods, not classwhere specified; 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	products, not includ- ing planing mills con-				2,699 1,564	415 292	2,052 818	3,123 1,472	not elsewhere speci-	1914	9	708	489	328	772	1.468
beds, not elsewhere goods. play 10 84 200 50 181 306 products. 1914 177 1787 1,222 3,017 6,008 1914 10 203 31 1016 203 31 31 31 31 31 31 31	nected with sawmills. Marble and stone work	1914	27	327	1,171	214	268	750		1914	28	789	879	534	1,418	2,491
Mineraland soda waters 1919 12 104 144 122 370 296 246 1914 12 116 02 65 79 246 246 248 229 200 1,066 100 200 246 248 229 248 229 248 229 248 229 248 229 248 229 248 229 248 249	beds, not elsewhere	1914	10	84	200	50	181	306		1914	224	1,612	1,787	1,222	11,812 3,917 2,722	6,908
Models and patterns, 1919 12 116 92 68 77 226 Models and patterns, 1919 221 234 353 228 145 Models and patterns, 1919 24 234 353 228 145 Models and patterns, 1919 24 234 353 228 145 Models and patterns, 1919 25 68 77 226 Models and patterns, 1919 25 68 77 226 Models and patterns, 1919 25 104 19 140 225 82 Models and patterns, 1919 25 104 19 140 225 82 Models and patterns, 1919 25 104 19 140 225 82 Models and patterns, 1919 25 104 19 104 25 Models and patterns, 1919 25 104 19 104 25 Models and patterns, 1919 25 105 Models and patterns, 1919 25 105 Models and patterns, 1919 25 105 Models and patterns, 1919 24 234 353 285 Models and patterns, 1919 25 105 Models and patterns, 1919 24 105 Models and patterns, 1919 25 105 Models and patterns, 1919 25 105 Models and patterns, 1919 24 105 Models and patterns, 1919 25 105 Models and patterns, 191	Millinery and lace goods.	1914	9	293	31	105	203	443	corn.	1914	7	34	21	23	64	102
Models and Patterns 1919 194 19 180 255 254 254 255 254 255 254 255 254 255 254 255 254 254 255 254 255 254 255 254 255 254 255 254 255 254 255 254 255 254 255 254 255 254 255 254 255 254 255 254 255 254 255 254 255 255 254 255	Mineral and soda waters.							980 246	N. A.	1914	6	32	145	22	926	1,064
Optical goods. 1919 13 1914 5 36 22 23 32 32 105 137 449 149 1914 6 66 1,372 1,960 843 1,077 2,085 11,985 1	not including paper	1914	19	140		92	48	239	including repairs.5	1914 1909	30 33	289 267	347 175	219 182	271 142	696 462
Patent medicines and compounds and druggists' preparations. 1919 48 400 226 257 1,234 3,244 1,015 705 1,365 215 2,480 3,881 1,643 3,193 2,745 3481 1,648 3,193 2,745 3481 1,693 3,293 1,793 2,745 3481 1,693 3,293 1,793 2,745 3481 1,648 3,593 2,745 3481 1,693 3,293 1,793 2,745 3481 1,693 3,293 1,793 2,745 3481 1,693 3,293 1,793 2,745 3481 1,693 3,293 1,793 2,793 3,293 1,793 2,793 3,293 1,993	Optical goods		13 5		53 22				construction and re-	1914	9	2,877	7,838	2,362	2,297	4,958
Photo-engraving	Paint and varnish	1914	25	417	2,319 2,229 1,356	294	7,783 2,784 2,486	4,517	Chemicals	1914	6	653	2,773	488	1,644	3,130
Printing and publishing. 3 Printing and advertising and advertising not publishing. 3 Printing and publishing. 3 Printing and publishing. 3 Printing and publishing. 3 Printing and advertising and meat a packing. 4 Printing and meat and publishing. 4 Printing and publishing. 4 Printing and advertising and meat and publishing. 4 Printing and publishing. 4 Printing and publishing. 4 Printing and advertising and meat and publishing. 4 Pr	compounds and drug-	1914	37	228	308	116	1,234 705 497	1,365	Clothing, men's 8	1914	68	3,590	646	1.696	4,516	9,546
Finding and publishing. 1919 307 4, 353 6, 652 2, 3, 399 1, 338 4, 405 1909 280 3, 866 4, 671 2, 480 3, 349 11, 519 1909 280 3, 866 4, 671 2, 480 3, 349 11, 519 290 200 3, 866 4, 671 2, 480 3, 349 11, 519 200 200 200 200 3, 866 4, 671 2, 480 3, 349 11, 519 200 200 200 200 200 200 200 200 200 20	Photo-engraving						72 78		Clothing, women's	1914	106	6, 955	1,291 1,074	3,717	17,964 8,266 6 406	16, 243
For the products 1914 7 159 210 84 145 294	Printing and publish- ing.3	1914	307	4,074	6,056	4,499 2,883 2,480	4,105	13,387	cream.	1919 1914	41 31	1,395 1,206	5,019 2,410	1,333 517	5,409 2,837	11,375 4,965
packing.4 1914 47 1,126 4,925 766 21,507 22,245 1909 55 1,116 3,710 669 16,974 19,320 Wirework, not elsewhere specified. 1919 8 79 101 68 199 433 105 250 19,320 All other industries. 1919 708 21,238 35,917 19,630 111,220 171,784 1909 37 1,578 1,980 760 1,780 4,036 CLEVELAND. 1919 2,946 157,780 460,108 211,206 613,449 1,915 708 1,914 12 282 111 563 1,021 All industries. 1914 2,345 103,317 277,006 67,351 198,493 352,418 1999 2,148 84,728 199,888 48,033 154,915 271,961 Artificial stone products 1919 11 70 130 108 225 423 1900 18 121 158 76 92 233 Ton products.9 1914 71 1,542 1,422 919 1,554 3,845 3,845 3,845 3,845 3,845 3,945 3,845 3,845 3,845 3,845 3,845 3,845 3,945 3,845 3,945 3,845 3,945 3,845 3,9	Signs and advertising novelties.		13 7							1914 1909	10	301 261	1,035 533	138 136	623 471	855 708
Wirework, not else-where specified. 1919 8 79 101 68 199 433 apparatus, and supplies. 1909 40 3,326 4,831 1,948 5,892 11,358 1,948 1	 Slaughtering and meat packing.4 	1914	47	1,624 1,126 1,116	4.928	1,839 766 669	54,441 21,567 16,974	62,428 23,245 19,320	iron products.9	1914 1909	71 37	1,542 1,364	1,422 1,231	919 640	1,854 1,628	3,865 2,966
CLEVELAND 1919 2,946 157,780 460,108 211, 206 613,449 1,091,577 All industries. 1919 2,148 84,728 199,898 48,033 154,915 271,961 Artificial stone products 1919 11 70 130 108 225 423 199,091 18 112 1 158 76 92 233 1 76 92 233 1 76 92 233 1 76 92 233 1 76 92 233 1 76 92 233 1 76 92 233 1 76 92 24 199,99 25 467 578 288 491 1,069			8 9			68 61			apparatus, and sup- plies.	1914 1909	40 40	3,326 1,578	4,831 1,980	1,948 760	5,892 1,780	4,036
CLEVELAND 1919 2,946 157,730 460,108 211,206 613,449 1,091,577 1909 231 17,915 24,204 10,485 15,324 37,443 1914 2,345 103,317 277,066 67,351 198,493 154,915 271,961 1919 24 145 30 185 461 940 2,148 84,728 199,898 48,033 154,915 271,961 1914 14 76 14 63 107 290 Artificial stone products 1919 11 70 130 108 225 423 Furniture 1919 25 677 1,125 942 1,385 3,208 1909 18 121 158 76 92 233 17,915 24,204 10,485 15,324 37,443 1909 25 467 578 288 491 1,099 25 467 578 288 491 1,069	All other industries	1914	666	21, 238 17, 620 19, 467	35, 917 32, 517 33, 451	19,630 7,729 9,572	111,220 33,100 31,197	62, 826 62, 310	Foundry and machine-	1914 1919	12 421	282 33,324	521 64,594	111 45,029	64,028	1,021 157,024
Artificial stone products 1919 11 70 130 108 225 423 Furniture 1919 25 677 1,125 942 1,385 3,208 1910 18 121 158 76 92 233 1909 25 467 578 288 491 1,069		1914	2,946 2,345 2,148	157, 730 103, 317 84, 728	277,066	67,351		1,091,577 352,418 271,961	Fur goods	1909 1919	231 24	17,915 145	24,204	10,485	15,324 461	37,443 940
		1914 1900	11 15 18	118 121	177 158	68 76	102 92	423 241 233	Furniture	1919 1914	1	677 525	1,125 788	942	1,385 717	3,208 1,595

¹ Includes "trunks and valises" in all years and "saddlery and harness" in 1914 and 1909.
2 Includes "perfumery and cosmetics."
3 Includes "bookbinding and blank-book making"; "engraving, steeland copper plate, including plate printing"; and "lithographing" in all years. Excludes "printing and publishing, music," in 1919, to avoid disclosure of individual operations.
4 Includes "sausage, not made in slaughtering and meat-packing establishments" in 1909.
5 Includes "carriage and wagon materials" in 1914 and 1909.
6 Includes "chewing gum" in 1914.
8 Includes "chewing gum" in 1914.
8 Includes "wooden goods, not elsewhere specified," in 1914 and 1909.
9 Includes "stamped and enameled ware, not elsewhere specified," in 1914 and 1909.
10 Includes "automobile repairing"; "gas machines, and gas and water meters"; "hardware"; "fron and steel, cast-fron pipe"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks, portable"; "structural ironwork, not made in steel works or rolling mills"; "iron and steel, tempering and welding" in all years; "engines, steam, gas, and water," in 1919 and 1914; "pumps, power, other than steam," in 1914; and "bells" and "hardware, saddlery," in 1919.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

															-
INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen-	estab-	Wage earn- ers (aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
	year.	lish- ments.	age num- ber).	horse- power.		Expressed thousand			year.	lish- ments.	age num- ber).	power.		Expressed thousands	
CITIES	OF 50,	,000 IN	навіт.	ANTS O	R MOR	E-ALL	INDUSTI	RIES COMBINED AND	SEL	ECTEI	INDU	STRIES	Contin	ued.	
CLEVELAND— Continued. Gas and electric fix- tures.1	1919 1914 1909	18 19 17	345 323 326	412 347 199	\$407 222 193	\$825 529 229	\$1,763 974 654	CLEVELAND— Continued. Printing and publish- ing.5	1919 1914 1909	337 272 245	4,935 4,002 3,104	4, 669 5, 154 3, 328	\$6,763 3,439 2,009	\$10,808 4,155 2,780	\$33,335 13,9% 9,635
Glass, cutting, staining, and ornamenting.	1919 1914	11 8	67 55	52 26	69 3 9	253 46	471 125	Slaughtering and meat packing.6	1919 1914 1909	40 39 35	2,605 1,400 1,076	7,964 3,229 2,570	3, 586 956 599	68,078 22,303 15,399	75,728 24,737 17,192
Hats and caps, other than felt, straw, and wool.	1919 1914 1909	14 8 9	191 122 97	48 17 11	236 63 43	768 168 102	1,353 303 199	Stoves and hot-air fur- naces, including gas and oil stoves.	1919 1914 1909	27 27 20	3,964 2,911 1,843	3,814 2,981 1,899	5, 244 1, 871 1, 155	10, 115 4, 261 2, 286	21,907 8,621 4,977
Iron and steel, steel works and rolling mills.	1919 1914 1909	16 15 14	9,719 8,149 7,538	125, 302 70, 844 60, 575	15, 847 6, 050 5, 150	60, 142 24, 552 28, 039	84, 425 33, 389 38, 463	Tobacco, eigars 7	1919 1914 1909	158 233 254	1,046 1,549 1,866	71 42 29	889 775 734	1,658 1,093 1,047	3,753 2,666 2,769
Iron and steel, bolts, nuts, washers, and rivets, not made in	1919 1914	11 7	3,603 1,675	5, 758 4, 393	4,619 969	7,573 2,009	17, 264 3, 542	Tools, not elsewhere specified. ⁸	1919 1914 1909	47 12 15	3,387 1,592 1,444	6, 495 4, 031 3, 246	4,619 952 759	6,001 831 665	17,603 3,684 2,395
steel works or rolling mills.	1919	13	1,801	6,044	2,866	5,663	13,373	Wirework, not else- where specified.	1919 1914	16 13	1,477 501	2,868 979	1,833 307	3,476 1,585	7,071 2,486
Iron and steel forgings, not made in steel works or rolling mills.	1914	11	563	2,438	416	765	1,754	All other industries	1919 1914 1909	475 329 425	32,916 19,237 20,738	135,966 86,594 70,616	44,145 11,520 10,968	144,743 47,826 45,709	245,713 74.638 73,637
Jewelry	1919 1914 1909	17 21 15	70 105 102	49 71 34	106 79 66	110 74 62	290 232 208	COLUMBUS All industries.	1919 1914 1909	690 643 586	26,751 17,236 16,428	66, 292 35, 522 35, 780	30,979 11,177 8,892	112,719 30,636 25,204	184,022 57,608 49,032
Knit goods	1919 1914 1909	16 16 13	2,453 1,341 1,234	1,003 523 407	1,771 672 485	5,527 2,334 1,813	10,003 4,051 2,957	Awnings, tents, and sails.	1919 1914	3 3	21 27	17 16	23 21	62 55	145 111
Leather goods 2	1919 1914 1909	19 30 14	117 145 125	31 94 84	156 97 68	307 186 133	678 382 271	Boots and shoes	1919 1914 1909	9 7 8	1,872 1,725 2,479	1,264 889 845	1,700 876 1,076	6,152 3,537 3,224	10,198 5,224 5,436
Liquors, malt	1919 1914 1909	8 12 11	758 1,056 744	7,067 6,554 3,395	1,095 805 594	1,713 1,858 1,484	5,774 6,528 5,124	Bread and other bakery products.	1919 1914 1909	64 75 58	617 545 435	1,057 1,106 75	600 351 222	3,092 1,153 1,092	5, 204 2, 119 1, 765
Lumber, and timber products.	1919 1914 1909	55 50 51	1,222 1,501 1,147	5, 097 5, 280 5, 263	1,460 1,016 699	4,649 3,053 2,732	7,908 4,916 4,021	Brooms, from broom corn.	1919 1914	6 9	10 11	22 22	10 5	38 15	67 33
Marble and stone work .	1919 1914	26 19	194 206	997 684	280 159	405 207 197	1,086 475	Cars and general shop construction and re- pairs by steam-rail- road companies.	1919 1914	5 4	4,856 2,753	7,826 3,281	5,873 2,195	8,353 3,166	15,214 5,401
Mattresses and spring beds.	1909 1919 1914	18 6 7	315 124 171	789 262 398	192 148 102	502 248	854 485	Confectionery and ice cream. Electroplating	1919 1914 1919	19 13 3	513 214 21	1,837 754	483 137 22	1,368 570 13	2,575 890 56
Millinery and lace goods.	1909	20	150 538	178 357	71 540	208 1,178	365 2,354 1,150	Food preparations, not elsewhere specified.	1914 1919 1914	4 8 6	34 23 19	53 23	19 18 6	190 27	48 243 49
	1914 1909	12 6	496 472	350 143	278 190	630 726	1,206	Foundry and machine- shop products.9	1919 1914	91 59	4,327	7,989 4,272	5,897 1,688	.9,786 3,153	21,586
Mineral and soda waters	1919 1914	29 25	152 89	208 112	199 50	528 144	1,096 299	Lumber and timber	1909 1919	58 20	2,477 3,012	4,148 1,993	1,841	3,465 1,329	6,959 7,744 2,243
Models and patterns, not including paper patterns.	1919 1914 1909	41 24 21	408 166 190	416 252 213	764 135 123	223 59 51	1,534 279 251	products.10 Marble and stone work.	1914 1909 1919	21 27 6	358 434 29	1,910 1,808	246 264 46	613 758 64	2,243 1,088 1,240
Optical goods	1919 1914	7 7	74 50	46 24	96 32	226 97	542 245	TOTAL STORES	1914 1909	7 6	42 70	75 445	42 47	55 75	163 135 169
Paint and varnish	1919 1914 1909	35 33 24	1,555 1,062 760	5, 274 3, 544 2, 624	1,654 645 468	16,629 5,766 3,889	26, 487 10, 093 6, 138	Models and patterns, not including paper patterns.	1919 1914 1909	9 8 8	44 34 34	57 89 58	51 29 23	9 11	134 59 70
Patent medicines and compounds.4	1919 1914 1909	56 52 50	348 228 125	277 677 66	313 119 62	2,172 640 316	6, 167 2, 140 1, 010	Patent medicines and compounds and drug- gists' preparations. 11	1909 1914 1909	28 23 13	157 137 140	172 184 285	109 59 61	599 311 239	1,693 1,068 946
Photo-engraving	1919 1914 1909	7 5 3	113 67 58 in 1914	61 31 23	208 79 50	76 23 36	511 196 144	Printing and publishing.12	1919 1914 1909	110 107 91	1,140 1,026 901	1,333 1,283 879	1,176 712 592	2,407 950 689	6,983 3,525 2,660

¹ Includes "lamps and reflectors" in 1914 and 1909.
² Comprises "saddlery and harness" and "trunks and valises."
² Comprises "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens" in all years, and "tumber and timber products, "in 1914 and 1909.
¹ Includes "perfumery and cosmetics" in all years, and "druggists' preparations" in 1914 and 1909, the latter was omitted in 1919 to avoid disclosure of individual

^{*}Includes "perfumery and cosmetics" in all years, and "druggists' preparations." In 1914 and 1908, the indices was officially and "lithographing."

*Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."

*Includes "sausage."

*Includes "cutlery and edge tools" in 1914 and 1909, excluded in 1919 to avoid disclosure of individual operations.

*Includes "automobile repairing"; "gas machines and gas and water meters"; "hardware"; "iron and steel, cast-iron pipe"; "iron and steel, welding"; "plumbers' supplies, not elsewhere specified"; "pumps, steam and other power"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling inilis."

*Includes "books, wooden packing, except cigar boxes," and "lumber, planing-mill products, not including planing mills connected with sawmills," for all years; and "window and door screens and weather strips," for 1919.

*Includes "bookbinding and blank-book making" and "lithographing" for all years; and "engraving, steel and copper plate, including plate printing," for 1919.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary	Wages.	Cost of materials.	Value of prod- ucts.
	year.	lish- ments.	age num- ber).	horse- power.		Expressed thousand			year.		age num- ber).	power.		xpressed i housands	
CITIES)F 50,	000 IN	HABITA	NTS O	R MOR	E-ALL	INDUSTI	RIES COMBINED AND	SEL	ECTED	INDU	STRIES-	-Continu	ied.	
COLUMBUS— Continued. Shirts	1919 1914	5 4	29 33	10 5	\$21 13	\$61 24	\$117 69	DAYTON— Continued. Tobacco, cigars	1919 1914 1909	29 44 56	1,102 1,582 1,428	124 115 52	\$764 533 487	\$1,454 905 831	\$3,658 2,655 1,893
Slaughtering and meat packing.1	1919 1914 1909	7 7 6	241 204 130	1,110 606 365	241 121 101	5,857 2,984 1,964	6,516 3,211 2,354	Tools, not elsewhere specified.	1919 1914 1909	36 8 4	1,200 52 40	993 112 59	1,896 34 21	715 13 7	3,785 76 62
Stoves and hot-air fur- naces, including gas and oil stoves.	1919 1914 1909	12 7 10	268 234 294	380 261 377	330 190 173	610 371 310	1, 134 852 722	Toys and games	1919 1914	8 5	220 242	240 162	184 116	280 245	639 476
All other industries	1919 1914 1909	285 279 301	12,249 7,363 8,499	41,029 20,635 26,495	13,992 4,467 4,492	72,716 13,636 13,377	109,751 26,764 25,926	All other industries	1919 1914 1909	189 177 205	19,684 15,170 13,255	32,206 29,384 20,391	26,276 9,137 8,158	51,115 20,485 17,660	120, 262 47, 775 41, 155
DAYTONAll industries.	1919 1914	571 523	31, 131 24, 061	52,749 42,109	39,680 14,076	78,460 32,954	174,991 71,071	SPRINGFIELD All industries. Agricultural imple-	1919 1914 1919	206 253 6	12,264 7,868 1,575	20,191 13,113 3,081	13,372 5,328 1,633	33,890 13,794 3,391	67,759 27,722 7,206
Boxes, set-up paper	1909	513 5	21,549 439	31,501 364	12,451 274 196	27,528 518 460	60, 378 	ments. Artificial stone products	1914	7	1,447 15	2,436 29	1,211	2,783	5,762 40
boxes and cartons.	1914 1909 1919	5 5	518 540 216	408 376 318	196 196 274	486 734	932	Bread and other bakery	1914 1919	9	24 102	68 208	17 118	18 552	53 818
Brass, bronze, and cop- per products.	1914 1909	8 7	95 210	115 340	69 145	207 213	332 481	products. Copper, tin, and sheet-	1914	7	103 28	134 12	66 34	236 70	398 134
Bread and other bakery products.	1919 1914 1909	57 64 65	530 491 350	912 651 401	575 290 187	2,923 1,213 949	4,522 2,013 1,531	Foundry and machine- shop products.	1914 1919 1914	6 44 45	2,674 2,100	4,952 4,230	3,275 1,467	5,506 2,688	76 12,972 5,790
Carriages and wagons, including repairs.	1919 1914	3 12	14 67	43 206	18 52	21 62	50 145	Models and patterns, not including paper	1919 1914	6	19 9	22 16	30 8	5 2	58 18
Clothing, men's 2	1919 1914 1909	7 4 4	283 147 196	73 148 125	184 63 71	815 138 209	1,787 277 354	patterns. Musical instruments, piano materials.	1919 1914		508 540	975 478	660 293	596 246	2,037 758
Confectionery and ice cream.	1919 1914	20 16	261 197	590 351	218 91	920 302	1,473 528	Printing and publish- ing, book and job.	1919 1914		176 140	195 110	172 88	208 92	607 280
Copper, tin, and sheet- iron work.	1919 1914 1909	6 11 11	38 72 63	51 50	48 43 44	101 81 88	152 178 178	Tobacco, cigars	- 1919 1919		20 51	10	10 23	20 23	43 72
Foundry and machine- shop products.3	1919 1914	98 71 69	5,053 3,424 3,585	11,281 5,862 5,576	6,693 2,119 2,033	7,754 2,944 2,800	19,766 6,859 6,778	All other industries	1919 1914		7,147 3,416	10,717 5,591	7,426 2,130	23,614 7,633	43,845 14,515
Furniture	1909 1919 1914	7 10	432 400	754 667	398 210	562 285 287	1,489 825 744	All industries.	. 1919 1914 1909	713	42,090 27,076 18,878	93,227 53,369 43,946	53,363 18,124 9,911	173,288 70,494 34,084	293, 521 115, 049 61, 230
Lumber and timber	1909	10	428 465	795 1,930	200 545	1,558 1,151	2,644 1,899	Artificial stone prod- ucts.	1919 1914		51 29	80 69	71 17	153 37	293 82
products.4	1914 1909	11	576 512	1,799 1,650	416 325	1,131 878 243	1,417	Bread and other bakery products.	1919 1914 1909	76	661 579 468	943 541 314	757 370 260	3,550 1,253 959	5,775 2,307 1,598
Marble and stone work.	1919 1914 1909	4	52 14 41	93 30 80	43 11 33	14 39	36 95	Brooms, from broom	ł	5	14 25	12 24	18 15	48 31	80 57
Mineral and soda waters	1919 1914		24 22	72 56	29 18	149 35	288 79	Cars and general shop construction and re-	1914	6	1,022 814	1,204	1,592 596 634	768 534 674	2,610 1,202 1,427
Models and patterns, not including paper patterns.	1919 1914 1909	7		95 100 44	20	5	223 50 35	pairs by steam-rail- road companies. Clothing, women's	. 1919 1914	8 13	1,198 673 892	935 163 200 155	720 515 492	2,335 1,410 1,375	4,163 2,434 2,323
Printing and publishing	1919 1914 1909	50	680	1,309 1,045 1,078	809 459 386	560	3,643 1,774 1,552	Confectionery and ice	1909	12	306	599 290	246 81	1,748	2,777 778
Slaughtering and meat packing.	1	12 9	290 275	1,352 669 484	347 193	3,846	4,831	cream. ⁷ Cooperage and wooden goods, not elsewhere specified.	1914 1919 1914 1906	5 8	76 85	151 75	76 38	235 104	295 189 196

¹ Includes "sausage" in 1914 and 1909.
2 Includes "shirts" for 1914 and 1909.
8 Includes "automobile repairing"; "gas machines and gas and water meters"; "hardware"; "iron and steel, tempering and welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "steam fittings and steam and hot-water heating apparatus"; "steel barrels, drums, and tanks, portable"; and "structural ironwork, not made in steel works or rolling mills" in all years; and "engines, steam, gas, and water" and "pumps, steam and other power," in 1919 and 1914.
1 Includes "boxes, wooden packing, except cigar boxes," and "lumber, planing-mill products, not including planing mills connected with sawmills."
4 Includes "boxes, wooden packing, except cigar boxes," and "lithographing" in 1914 and 1909.
5 Includes "boxebinding and blank-book making" and "lithographing" in 1914 and 1909.
6 Includes "automobile repairing"; "engines, steam, gas, and water"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills."
7 Includes "chewing gum" in 1914.

MANUFACTURES—OHIO.

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary horse-	Wages.	Cost of mate- rials,	of prod- ucts.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
	year.	lish- ments.	age num- ber).	power.		Expressed thousand			year.	lish- ments.	age num- ber).	power.	I	Expressed thousand	in s.
CITIES	OF 50,	000 IN	HABIT.	ANTS O	R MOR	E-ALL	INDUSTI	RIES COMBINED AND	SEL	ECTEI	INDU	STRIES	Contin	ued.	
TOLEDO— Continued. Copper, tin, and sheet- iron products. ¹	1919 1914 1909	20 35 37	753 698 547	984 713 265	\$796 465 282	\$2,349 1,020 649	\$4,298 2,029 1,303	TOLEDO— Continued. Patent medicines and compounds and drug- gists' preparations.	1919 1914 1909	25 31 51	41 51 76	93 102 154	\$45 29 36	\$138 125 149	\$469 453 540
Electrical machinery, apparatus, and sup- plies.	1919 1914 1909	13 11 7	3,365 918 416	5,413 1,155 248	3,187 397 168	8,871 1,821 289	19,246 3,230 932	Printing and publishing.5	1919 1914 1909	86 88 72	867 889 763	1,278 1,095 866	1,097 670 480	1,991 858 523	5,999 2,991 2,004
Flour-mill and grist- mill products.	1919 1914 1909	6 6 7	236 234 204	2,723 3,345 3,510	291 187 140	11,516 5,277 4,931	13,433 5,815 5,662	Tools, not elsewhere specified.	1919 1914	9	231 15	213 30	304 12	103 5	596 33
Foundry and machine- shop products. ²	1919 1914 1909	71 67 75	6,390 3,796 3,191	13, 972 6, 679 6, 931	9,118 2,674 1,905	11,915 3,137 3,161	30,235 7,855 7,024	All other industries	1909 1914 1909	253 272 327	20,447 16,823 9,472	61,605 34,339 26,738	33,883 11,351 4,801	124,331 52,585 19,341	197,304 82,199 34,808
Furniture	1919 1914 1909	9 16 23	199 374 580	370 740 884	215 231 303	296 299 545	763 734 1,128	YOUNGSTOWN All industries.	1919 1914 1909	239 201 115	19,414 15,861 10,498	303,887 196,665 140,907	38,319 12,349 7,835	163,099 69,077 62,292	241,458 92,111 81,271
House-furnishing goods.	1919 1914	5 3	29 19	7 12	29 15	116 59	202 128	Artificial stone prod- ucts.	1919 1914	7 9	14 48	66 95	17 23	26 20	70 55

486 585

 $\begin{array}{c} 48 \\ 46 \end{array}$

40 34

29

150

28

8 6

6 7

5 5

333 286

57 43

33

15 9

23 20

197 108

55

4 5

122 158

2,694 1,747 1,793

331 217

159

24

267 252

Bread and other bakery products.

Confectionery and ice cream.

Foundry and machine-shop products.7

Printing and publish-

All other industries....

ing.

130 65

2,461 2,040 1,153

243 164

16,338 13,324 9,116

11,216 8,492 2,674

303 188

291, 225 187, 395 138, 022

43 22

19 15

21 13

 $^{113}_{102} \\ ^{65}$

1909

1909

1909

1914 1909

83 38

37

4,265 1,580 800

181 109

33,140 10,445 6,888

13, 191

4,442 2,702

128

64,037 59,329

2,713 620 249

189

2,082 792 454

212;077 83,220 75,708

Lumber and timber

Marble and stone work,

Mineral and soda waters

Models and patterns, not including paper patterns.

Paints

products.3

except slate.

Includes "stamped ware, not elsewhere specified," and "tinware, not elsewhere specified."

Includes "automobile repairing"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified."; "steel barrels, drums, and tanks, portable"; and "structural ironwork, not made in steel works or rolling mills," in all years; "engines, steam, gas, and water," and "hardware" in 1919 and 1914; and "steam and hot-water heating apparatus" in 1919 and 1909.

*Comprises "boxes, wooden packing"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens," includes "varnishes" in 1919.

Includes "varnishes" in 1919.

Includes "perfumery and cosmetics."

Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing." Includes "automobile repairing"; "hardware"; "iron and steel, welding"; and "structural ironwork, not made in steel works or rolling mills."

TABLE 45.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
	year.	lish- ments.	age num- ber).	power.		Expressed thousand			year.	lish- ments.	age num- ber).	power.		Expressed thousand	
			CITIE	S OF 10	,000 TO	50,000	NHABIT	ANTS-ALL INDUSTI	RIES	COMBI	NED.				
ALLIANCE	1919 1914 1909	74 52 44	5, 117 2, 333 2, 524	12,481 4,678 3,453	\$5,769 1,617 1,462	\$14,789 3,656 2,853	\$32,871 7,175 6,135	LORAIN	1919 1914 1909	55 66 57	11,677 6,436 6,697	148, 253 211, 182 208, 992	\$22,955 4,660 4,788	\$65,995 17,929 24,222	\$116,909 29,110 38,987
ASHTABULA	1919 1914 1909	62 57 44	4,172 1,868 1,471	9,013 7,327 2,379	5,813 1,345 814	10,969 2,825 2,084	23,099 5,021 3,459	Mansfield	1919 1914 1909	132 103 121	4,711 3,398 3,204	9,123 6,637 5,077	5,570 2,029 1,472	17,359 4,772 4,356	31, 878 10, 282 8, 173
Barberton	1919 1914	32 34	4,762 3,118	29,000 7,211	6,261 1,734	14,696 4,106	27,713 8,844	MARIETTA	1919 1914 1909	59 71 66	1,285 1,401 1,288	3,716 3,117 2,742	1,213 844 594	2,852 2,383 1,787	5,917 4,129 3,218
BELLAIRE	1919 1914 1909	45 40 36	2,277 2,603 2,597	15,387 14,390 17,790	2,729 1,566 1,412	9,929 9,278 7,159	14,502 12,170 10,092	Marion	1919 1914 1909	70 66 55	4, 125 2, 577 2, 619	9,601 5,575 3,686	4,831 1,512 1,405	10,374 2,562 2,577	20,713 6,385 5,667
Cambridge	1919 1914 1909	32 39 32	1,782 1,455 1,230	5,160 5,742 5,055	3,038 1,112 919	5,853 2,340 2,885	11,227 3,924 4,291	MASSILLON	1919 1914 1909	80 70 56	2,153 1,768 1,934	9,931 5,544 4,730	2,715 1,166 1,127	7,074 2,719 2,290	13,985 5,298 4,788
CHILLICOTHE	1919 1914 1909	35 46 57	1,638 1,557 1,674	5,036 4,765 3,558	1,840 852 707	4,340 2,571 3,038	7,667 4,083 4,345	MIDDLETOWN	1919 1914 1909	56 63 41	6,442 4,003 2,576	56,386 35,328 9,304	8,729 2,888 1,389	35,687 10,580 7,950	62,838 21,787 16,517
Coshocton	1919 1914	45 47	1,959 1,614	5,439 3,501	1,652 805	3,873 1,814	7,685 3,477	NEWARK	1919 1914	79 79	4,570 4,583 3,913	10.314	4,532 2,969	8,272 3,574 3,982	16,563 9,277 7,851
EAST CLEVELAND	1919 1914	17 7	88 129	217 397	104 81	191 147	421 296	Norwood	1909	72 70	3,913 8,283	8,071 8,630 16,218	1,958 8,149	3,982 20,223	7,851 47,947
East Liverpool	1919 1914 1909	67 80 82	4,311 4,830 4,873	5,911 6,051 5,528	4,546 2,935 2,764	4,891 2,842 2,521	12,501 7,093 6,629		1914 1909	58 49	5,808 3,907	9,865 6,381	3,614 2,081	7,217 4,021	16,724 9,684
Elyria	1919 1914 1909	75 63 58	4,590 2,735 2,673	14,481 10,814 9,058	6,029 1,759 1,573	10,228 5,016 4,495	25, 191 8, 792 8, 065	PIQUA	1919 1914 1909	66 78 82	3,293 2,777 2,683	7,212 5,721 5,062	3,037 1,508 1,292	10,955 4,554 3,852	19,921 7,988 6,931
FINDLAY	1919 1914 1909	75 78 74	1,715 1,737 1,376	4,098 3,561 2,574	1,543 778 574	4,828 2,791 2,094	7,924 4,663 3,487	Portsmouth	1919 1914 1909	60 76 75	5,914 3,597 3,728	22,392 5,099 4,028	6,907 1,751 1,459	20,178 4,079 3,894	36,646 7,682 7,277
FBEMONT	1919 1914	53 65	2,999 2,063	5,752 3,664	3,114 1,097	5,438 2,296	12,915 4,780	Sandusky	1919 1914 1909	115 107 91	3,447 2,727 2,118	15,949 7,415 4,856	3,666 1,686 1,006	10,680 4,059 2,835	19, 249 8, 283 5, 947
Намилоп	1919 1914 1909	130 129 125	8,553 6,043 6,895	27, 596 16, 767 22, 563	10,094 3,565 3,798	22,637 9,015 9,640	47,024 16,877 18,184	STEUBENVILLE	1919 1914 1909	57 60 55	3,855 4,506 4,267	44,531 36,731 37,748	6,689 3,430 3,203	16,376 11,432 14,443	30,903 16,959 21,187
IRONTON	1919 1914 1909	52 59 63	1, 971 1, 420 1, 420	16, 968 15, 147 15, 548	2,252 721 888	8,837 3,294 4,994	14,072 4,666 7,118	Tivein	1919 1914 1909	75 76 75	2,213 2,177 1,632	3,748 4,464 3,257	2,439 1,410 828	4,750 2,392 1,252	10, 516 4, 996 3, 254
LAKEWOOD	1919 1914	33 22	1,821 1,774	2,435 2,969	2, 254 1, 022	3,853 1,604	7,603 3,606	WARREN	1919 1914 1909	96 82 68	2,433 2,862 1,798	6,083 5,747 5,530	3,27 <u>4</u> 1,933 911	11,931 6,355 3,064	19,747 10,400 5,988
LANCASTER	1919 1914 1909	43 53 42	2,024 1,583 1,582	3, 189 2, 874 2, 453	2,033 790 677	6,732 3,287 3,051	11, 479 4, 603 4, 074	ZANESVILLE	1919 1914	97 97	3,014 3,035	7,557 7,064	2,942 1,685	7,427 5,246	13,438 8,300
І лма	1919 1914 1909	108 97 85	4,901 4,876 3,607	11,075 7,518 8,264	5, 293 3, 178 2, 024	12,748 6,369 3,869	23, 639 11, 599 7, 754		1909	108	2,932	7,783	1,582	5, 056	8,020

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					PERS	ONS EN	GAGEI	IN THE	INDUST	RY.		NEAR!	E EARNI ST REPR	ERS DEC ESENTA	7. 15, C	OR OAY.	
		Num-		Pro-	Sala- ried offi-	Clerk	s, etc.		Wage	earne	rs.		16 and	over.	Und	er 16.	
	INDUSTRY AND CITY.	ber of estab- lish-		prie- tors	cers, super-				Numb	er, 15	ith day of—						Capital.
	,	ments	Total.	and firm mem-	in- tend-	Male,	Fe-	Aver- age				Total.	15-1-	Fe-	Mala	Fe-	
				bers.	ents, and man-		male.	ber.	Maxin mon		Minimum month.		Male.	male.	Male.	male.	
_			<u> </u>		agers.												
	. т	HE ST	PATE—A	LLL II	NDUS	TRIES	COM	BINED	AND S	PECI	IFIED IND	USTRIE	s.		,	,	
1	All industries	16,125	882,918	12,823	30, 265	71,636	37,461	730,733	De 79	0.681	My 687, 683	(3)	(a)	(8)	(8)	(⁸)	Dollars.
2	Agricultural implements	-	5,991 2,382	27	240	585 243	208	4 931	Mh	5 411	Jv 4 406	5, 283	5,216	67			3,748,743,996 27,884,087
4 5	Artificial flowers	20 6 17	2,382 33 66	4 6 18	143 3	243	152 2 4	1,840 22 34	De 4 Je 4 Oc	2,390 24 39	Oc 19	2,269 21	2,080 5 33	16,			7,601,815 33,769
6	Artificial stone products	339 237	1,205 19,561	384 161	65 727 715	10 1, 244	25 759	721 16,670	4	non	T.*	35 895 21,607	895 20, 203	1,319		<u>-</u>	86,294 2,523,168 65,425,652
8 9 10	Automobiles	540 41	33,760 3,463	623 29	144	100	166	2,430	De 3	2.7981	Fe 12,635 My 20,274 Ja 2,156	36,997 2,503	35,654 2,467	1,343 26			191,041,010 5,811,464
11	Bags, paper, exclusive of those made in paper mills.	ii	1,040 924	1	46 57	69 117	45 55	851 694	De 1	794	Fe 642 Mh 604	865 704	373 353	489 351		3	5, 463, 880 4, 575, 170
12 13 14	Baskets, and rattan and willow ware. Belting, leather.	29 10 13	383 184	40	15 26 13 44 22 428	4 42 7	5 14	319 102	Au De	359 118	My 289 Je 4 94	315 109	199 107	115 2	1		232,216 1,072,269
15 16	Bookbinding and blank-book making Boot and shoe cut stock	54 7	1,301 310	16 56 3	13 44 22	255 11	112 6	40 834 268	Jy De 1 No		Ja 31 Fe 762 Ja 243	45 997 289	25 529 196	20 464 93	4		244,079 3,242,432
17	Artificial flowers. Artificial limbs. Artificial stone products. Automobile bodies and parts. Automobiles. Automobiles. Automobiles. Automobiles. Automobile repairing. Awnings, tents, and sails. Bags, paper, exclusive of those made in paper mills. Baskets, and rattan and willow ware. Belting, leather. Blacking, stains, and dressings. Bookbinding and blank-book making Boot and shoe ent stock. Boots and shoes, not including rubber boots and shoes. Boxes, cigar.	60	15,753	3 13	f		600	14,092	De 14	1,963	Ap 13,473	14,923	8,718	6,088	92	25	813,262 40,178,881
18 19	Boxes, cigar Boxes, paper and other, not elsewhere specified.	19 58	3,275	18 24	12 151	5 6 9	5 79	379 2,952	De	404	Au 354	405 3,202	155 1,152	250 2,027	<u>-</u> 3	20	394,767 6,118,841
20	Shipping containers, corrugated	10	432		38	8	17	369		428	Му 287	433	267	165	. 1		1,037,665
21 22 23	Set-up paper boxes. Cartons. Boxes, wooden packing, except cigar	38 10 98	2,335 508 2,148	22 2 99	85 28 99	49 12 49	45 17 27	2,134 449 1,874	No s	485	Je 2,009 Je 406	2,281 488	624 261	1,636 226	1	20	3,816,796 1,264,380
	boxes. Brass, bronze, and copper products. Brass and bronze products	1.	5,019	57	620	318	150				Ap 1,746	2,008 4,983	1,883 4,773	122 203	7	•••••	4,346,740 16,887,641
24 25 26 27 28 29	Brass and bronze products All other Bread and other bakery products Biscuit and crackers	81 11	4,778 241	46 11	209 21	301 17	143 7	4,264 4,079 185	No 4 No	1,800 236	Fe 3,538 Fe 143	4,748 235	4,560 213	181 22	7		16,028,331 859,310
28 29	Biscuit and crackers. Bakery products, other than biscuit and crackers.	1,621 1,609	13,353 2,140 11,213	1,803 1,803	209 21 392 63 329	1,358 260 1,098	709 94 615	9,091 1,723 7,368	De 1 De 7	,969	My 1,602 Fe 6,785	9,880 1,963 7,917	7,278 982 6,296	2,531 975 1,556	53 1 52	18 5 13	57,719,262 5,952,100 51,767,162
30	Brick and tile terre-cotte and fire.	241	13,548	2 39	615	404	230	12,060				13,230	12,672	497	61		64,371,925
31 32	clay products. Building brick. Fire brick. Sewer pipe and draintile. Terra-cotta products. All other. Brooms, from broom corn. Brushes. Butter. Buttons. Canning and preserving, fruits and	96 36	4,250 2,214	36 6	234 97	134 60	78 35	3,768 2,016	Au 4 No 2	1,760 2,080 3,428	Fe 2,319 Au 1,725	4,300 2,171	4,239	54 26	7 43		24,737,590 9,102,274
32 33 34	Sewer pipe and draintile Terra-cotta products	158 46	2,214 3,474 3,321	187 10	144	64 139	35 43 72 2 12	3 0361	Au 3 Se 3	3,488	De 2,406 Ja 2,207	3,076 3,450 233	2,102 3,054 3,050	16 395			12,801,430 16,343,695
35 36 37	Brooms, from broom corn	5 79 19	289 489 1,115	85 12	120 20 19 55 167	7 32 144	12 88	2,980 260 341 816	Oc	3581	Au 226 Je 331 My 688	233 363 1,020	227 313 809	6 49 211	i		1,386,936 857,875
38 39	Butter	141	2,029 125	85 12 77 3 52	- 51	134 1 38	289 289 2 45	1,362 114	Jy i	531	Ja 1,148 My 65	1,361 145	1,160 127	196	5		3,315,972 8,018,205 182,125
40 41	Canning and preserving, fruits and vegetables. Canned vegetables. All other		1,868 1,801		157 151	38 37	45 44	1,576 1,519	٠ وم		De 347	3,911	2,211	1,651	18	31	6,744,352
42 43	All other Card cutting and designing Carpets, rag	82 5 4	67 246	50 2 1	6l	1 21	1 12 2 39	57 203	No	321 252	Ja 11 Mv 168	3,740 171 233	2,083 128 74	1,608 43 159	18	31	6, 486, 158 258, 194 321, 981
44 45 46	Carriage and wagon materials. Carriages and wagons, including	25 33 119	144 1,390	28 22 125	9 5 58 84	4 52 62	2 39 52	1,219	Je 4	116 1,461	Ja 4 84 Ja 904	106 1,450	65 1,303	37 146	4 1		76,337 3,632,774
47	repairs. Carriages and wagons.	59	1,317 1,044	47 78	71	60		994 816	Ар	880	No 742	940 754	918 733	22 21			3, 818, 584 3, 362, 376
48 49	Repair work only	60 60	273 2,009	78 1	13 60	2 19	50 2 26	178 1, 903	No	189	Ja 165 Ja 1,767	186 1,899	185 1,894	1			456, 208 4, 942, 956
50	companies. Cars and general shop construction	117	38, 584		1, 177	1,742	420	35, 245	De 37	, 236	Ap 32,688	37, 234	36, 973	261			42, 581, 602
51	and repairs by steam-railroad com- panies. Cars, steam-railroad, not including	8					00	-			- 1						
52	operations of railroad companies.	6	2, 576 721		79 19	237 35	83 12	2, 177 655	Au	1	Je 1,847 Fe 502	2, 539 646	2, 536 644	2 2	1	••••	20, 576, 710 4, 346, 385
53 54	Cheese	96 37 54	4,410	52 1	11	357	204	3, 670]]	Μv	93	Ja 4 21 Ap 3,022	86 4, 296	86 4,012	283			4, 346, 385 270, 850 26, 764, 298
55 56 57	Cleansing and polishing preparations. Cleansing preparations. Metal polish.	33 5 16	320 213 23	50 30 3	178 42 30 5	58 33 5	39 23 2	131 97 8	Fe 4	113	Ју 77 (*) 8	150 112 8	93 68 6	56 43 2	1.		807, 002 452, 060 38, 280
58 59	All other polishing preparations.	611	94 76	17 5	3	20 1	14 3	64		32 69	(5) 8 Ja 20 Ap 61	30 65	19 65 -	11			316, 662 83, 310
60 61 62	Clothing, men's. Regular factories. Men's, youths', and boys'	246 148 92	12,062 10,703 8,454	262 142 93	380 373 295	920 920 758	561 558 447 111	9, 939 8, 710 6, 861			Ap 6,043	11, 597 10, 242 8, 057 2, 185	3,588 3,249 2,901	7, 971 6, 958 5, 138	8 7 6	30 28 12	30, 152, 858 29, 967, 857
63 64	Men's, youths', and boys' All other Contract work	92 56 98	8, 454 2, 249 1, 359	49 120	78 7 7	758 162	3	1, 849 1, 229	Dе 1,	, 104 , 231 , 352	Ap 1,174	1, 355	348 339	1, 820 1, 013	1	16 2	24, 732, 326 5, 235, 531 185, 001
65 66 67	Clothing, men's, buttonholes	8 175 144	101 10, 045 9, 541	10 133 104	$^2_{432}$	717 716	505 503	86 8, 258 7, 808	De .	98	Ja 78	98 8, 223 7, 659	19 2, 593	79 5, 573 5, 120		49 17	27, 456 21, 789, 994
68 69	Suits, skirts, and cloaks Shirt waists and dresses, ex-	70 32	6, 093 2, 297	60 20	241 97	513 148	382 76	4, 897 1, 956	Au 5, Au 2,	, 514 , 147	My 4,409 Ja 1,767	4,853 1,782	2, 517 2, 108 315	2,741 1,467	4	'	21, 628, 739 15, 060, 910 4, 003, 340
70	cept house dresses. Undergarments and petti- coats.	11	415	2	20	12	20	361		395		386	36	350 .			1, 194, 190
71 72 73	Wrappers and house dresses All other	11 20	245 491	9 13	15 37	22 21 1	10 15	189 405	Νo	446	My 161 Ja 336	212 426	9 49 76	185 377 .	1	17	428, 564 941, 735
	Contract work. Includes water wheels and turbines (31 irrespe	504)) ctive of o	29l wnersh	22 ip of w		2] pply),	450	De	558J.	Ap 372	564] ater from	76] citv ma	453	31	32	161, 255

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 No figures given for reason stated under "Explanation of terms."

COMBINED AND SPECIFIED INDUSTRIES: 1919.

	- <u>-</u>		EXPE							;			POWER.			
Sala	ries and w	ages.		Rent an	d taxes.	For mat	erials.			!	Pri		orsepow	er.		Elec-
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	(not	Own Steam tur- bines.	Internal- com- bus-	Wa- ter pow- er. ¹	Rent-ed.2	tric horse- power gener- ated in estab- lish- ments report- ing.
				HE STAT	E-ALL	INDUSTR	IES COME	SINED AN	D SPECIFI	ED IND	USTRIE	S.				
$Dollar_{8.} \ 14,246,012$	Dollars. 159,468,347	Dollars. 944,651,734			Dollars. 179,262,557	Dollars. 2,729,033,617	Dollars. 182,914,254	Dollars. 5,100,308,728	Dollars. 2,188,360,857	2,897,497	1,407,558	374,954	147,039 1	10, 115	957, 831	819,383
946,901 601,532	1,130,349 642,574	5,675,451 2,746,873	1,500 7,800	10, 480 8, 172	571,380 174,882	12,611,928 6,476,630	354, 807 195, 942	26,556,031 11,132,231 112,543 197,605 2,992,977 92,390,646 287,046,832 10,245,408 6,937,359 12,609,656	13, 589, 296 4, 459, 659 66, 957	10,470 4,721	4,170	1,433	1,565 1,060	220	3,082 3,661	5, 895 776
7,515 19,734 99,661	1,130,349 642,574 2,245 8,799	5, 675, 451 2, 746, 873 21, 765 37, 266 830, 254	700 7,009 60,467 97,566 38,435 1,552	4,910 19,727 15 190	653 1,607	45, 409 52, 799 1 365 930	177 1,159 39,122	112,543 197,605 2,992,977	66,957 143,647 1,587,925	1 032	286		4		23 23 938	•••••
2, 408, 535 3, 513, 285	2,393,441 5,147,108	21,966,409 41,443,839	60,467 97,566	272, 474 53, 798	2,116,799 9,910,381	51,448,973 196,354,341	1,092,976 2,084,620	92,390,646 287,045,832	39, 848, 697 88, 606, 871	41,566 37,473	2,442 6,113	40 400	649 228		38, 435 30, 732 2, 763	661 3,061
99, 661 2, 408, 535 3, 513, 285 271, 286 109, 830 313, 736	230,047 146,443 278,373	3,311,759 753,692 653,579	1,552 566	27,077 27,380	289, 482 388, 106	3,689,161 9,109,811	46,659 29,421	6,937,359 12,609,656	39, 848, 697 88, 606, 871 5, 751, 011 3, 201, 539 3, 470, 424	1,932 41,566 37,473 3,678 1,732 785	225	!	47		1,400 195	28
25,775 89,623	8,411 44,598	230 450	1,131	2,376	2,932 14,263	128,620 1 132,842	6, 107 5, 032	537,898 1,549,695	403, 171 411, 821		556		8.	55	1111	
50, 310 150, 281 52, 791	23,128 665,969	32,482 824,540	80, 486	3,260	8, 169 39, 480 21, 569	260,691 882,094 1,092,014 40,521,015	6, 107 5, 032 2, 492 26, 126 18, 896 281, 469	588,551 3,836,561 1,615,003 71,354,850	325.368	42 846 326	18	•••••	5!.		846	********
1, 682, 426 28, 072	3, 208, 137	12,545,100	92,931	130, 409 11, 683	1,772,248		1		8U, 552, 500	9,131	4,188 240	155	343		4, 451 150	2, 28
454 , 522	183,826	•	1	166,536	7,616 256,177		83, 349	950, 739 10, 029, 812	5, 225, 141	2,893			200	•••••	2, 125 572	14
116 , 391 252 , 187	2 1 - 1 - 1	322, 903 1, 398, 874 313, 132	7.5		13,482 220,907		1 1	2, 108, 429 5, 975, 716	3, 482, 130	1,449	203		90		1, 156 297	
252, 187 85, 944 336, 416	86,001	1,778,927	3,727	38, 246			65,011	8,936,595	3,583,619	6,738	3,712	15	877		2,634	14
1, 001, 777 925, 345	711, 251	5, 893, 721 5, 669, 984 223, 737	4,939 4,939	43,639 40,999 2,640	903,828 894,939 8 889	15, 527, 757 14, 683, 819 843, 938 48, 744, 427 6, 264, 518 42, 479, 906	649,776 619,419 30,357	27, 801, 760 26, 450, 176 1, 351, 584	11, 146, 938 477, 289	9,507	1,792 522 1,270	300	20		7,919 7,801 118	83 78 72 9
76, 432 1, 222, 366 296, 854	2,878,991 548,416	9,906,064 1,277,465	48,505	18,343	1, 234, 703 618, 401	48,744,427 6,264,518	619,419 30,357 1,211,118 122,544 1,088,574	78,819,001 11,583,100 67,235,901	28,863,456 5,196,038 23,667,418	12,582	1,387 451 936		774	Ð	906	72 9 62
925, 512 1, 583, 812		11.00			863,983	1	1	i	1		1		1 1		10,347	5,81
527,392 367,012	218, 175 148, 591	4,275,566 2,141,36	2,005 13,103	19,745 13,059	191,867 256,619	1,076,396 1,046,233	2,042,884 816,857	10,731,413 5,613,721	7,612,133 3,750,631 5,245,056	11 8.449	17,561 6,591	. 60			4,901 1,798	1,10 28
319, 985 339, 214 30, 209	146,509	3,234,078	10.340	19,745 13,059 4,210 1,416	256, 619 251, 309 139, 489 24, 699 12, 627 99, 417	1,076,396 1,046,233 1,362,773 955,501 137,042 921,033	1,381,544 1,049,502 91,939 13,893	7,989,373 7,065,180 772,889	5,245,050 5,060,177 543,908	1,287	15,665 8,629 577	30	1,394 685		25	1,25
37, 926 196, 869	52,156 261,973	312,649 954,03 1,456,16	250	8,443 9,726	12,627 99,417 255,889	921, 033 1, 653, 054 34, 455, 248	13,893 22,837 271,955	3,903,798 41,061,993	771, 451 2, 227, 907 6, 334, 790	1,124 7,405	3,486	<u>ā</u>	1.124		198 494 2,792	67 74
451, 478 7, 094 285, 099	3,078	52,08	3	1,440	1 907	1 72,503	2, 257 64, 869	6, 838, 327	2, 426, 015	5, 103	3,844	123	400		43 736	28
271,649 13,450	1,620	744,01- 31,70	9	590	171, 110 3, 298 37, 817	4, 260, 986 86, 457 255, 980	62, 197 2, 672 3, 250	6,662,944 175,383 850,123	2,339,761 86,254 590,893	5,024 79 112	11 75	123	396	,	736 112	28
43,000 5,180 161,64	80,547	169.92	2 5 3,193	12,024 5,670 15,609	97,342	3, 197, 742	63, 790	166, 459 5, 931, 602	2,670,070	3,433		, .			80 397 1, 281	59
243 , 94	123,844	1	1.67		4.0	F e	1	1	1	11	182	12	376		1,042]
221, 13 22, 80 173, 43	118, 631 5, 213 5, 735	854, 12 218, 50 2, 269, 96	8 3, 689 8 6, 400 6 13, 499	28,096 19,254 8,120	6, 554 30, 412	231.356	10, 447 202, 382	4, 344, 467 669, 541 4, 724, 631	427, 738 2, 608, 193	328 2,545	129		89 2		2,414	
2, 847, 96	3, 135, 95 4	50, 694, 38	0	81,000	89, 567	36, 997, 952	2, 592, 096	96, 483, 946	56, 893, 898	50, 650	24, 943	5, 187	7 1,610		18, 910	22, 2
561,45	348,086	3, 335, 50	5 8,58	22, 835	922, 410	21,097,856	217, 288	28, 145, 542	1	12,685	1		1		10, 330	ii .
73, 050 1, 09	66, 931	125, 42	9 21, 510 2 2, 69 8 56, 87 6 2, 10	3, 879	43, 810 3, 991	615, 907 1, 514, 248	898, 344 11, 064	3, 338, 594 1, 753, 274	1,824,343 227,962	13,514 510 35,049	5, 225 435 13, 838	1,000 72 16,320	2) 3)		7, 209 4, 438	
693, 14 139, 43 92, 72 8, 18	1 742 786	5, 473, 50 128, 90	8 56,87 6 2,10	3, 879 4 34, 695 39, 470 31, 574 4, 203	1,740,048 19,673 9,462	823, 182	3, 149, 144 6, 818 4, 911	3, 338, 594 1, 753, 274 32, 719, 466 1, 880, 024 1, 324, 310 93, 669 462, 045	17, 423, 937 1, 050, 024 770, 858	III 216			15		181 134 11	
8, 18 38, 52	12, 76, 8 17, 32	8,04	9	3,693	9,080	41,666 232,978 4,860	383 1,524 1,243	93, 669 462, 045 149, 813	770, 858 51, 620 227, 540 143, 710	31 36 37	12				36 25	
38, 52 8, 20 2, 078, 82 2, 063, 50 1, 690, 34	2, 619 3 2, 092, 453 3 2, 089, 369	8, 896, 30 7, 812, 58	3 6 2, 774, 24 3 2, 738, 63 8 2, 686, 36 5 152, 27 3 35, 61	10,064 471,406 7 448,380,454 380,454 3 67,928 1 23,024 2,620 401,017 0 385,639 259,389	1, 321, 223 1, 318, 553	29, 923, 056 29, 897, 953	147, 562 132, 443 97, 379	1 58, 109, 320	28, 098, 609 26, 645, 274 22, 542, 364 4, 102, 910 1, 453, 425 121, 836	2,078 1,852 1,199	250 250		73 10		1,665 1,524 939	j . C
1, 690, 34 373, 16 15, 32	0 3,08	9 6,603,59 0 1,208,98 1 1,083,72	5 2, 086, 36 5 152, 27 3 35, 61	500, 454 67, 928 1 23, 024	1, 012, 708 305, 84 2, 670	7, 806, 384 25, 100	35, 064 15, 119 1, 322	11, 944, 356 1, 493, 650	4, 102, 910 1, 453, 425 121, 836	653 226 20			63 . 85		585 141 20	lt ·
4 60	n! 1 700	8,641,83	11	2,620 5 401,017 0 385.639	660, 054 659, 466	25, 965, 476 25, 963, 211	1, 322 111, 545 107, 464	48, 703, 704 48, 189, 130	22, 626, 684 22, 118, 455	1 000	297 297 207		192 192		1,519 1,413 942	
1, 989, 56 1, 961, 30 1, 330, 05 445, 42	4 1, 643, 293 4 459, 786	5, 886, 85 1, 758, 45	5 449, 42	259, 378 6 98, 388	490, 978 120, 009	17, 288, 30 4, 939, 06	1			270	<u> </u>	1	1		270 33	
57, 17	0 43,14	252, 61	14	9,144	1	1	<i>l</i> '	H		11		1	1	ł	67 101	
45, 44 83, 21 28, 26	5 33, 47 5 33, 40 1 1, 72	119, 46 2 268, 39 356, 05	10) 3,99	5, 886 0 12, 843 5 15, 878	17,754	1, 238, 773 2, 26	10,033 4 4,081	1,941,746 514,574	356, 686 692, 940 508, 229 e other mon							

				PERS	ONS EN	GAGEI	IN THE	INDUSTRY.			E EARNI EST REPE				
	Num-			Sala- ried	Clerk	s, etc.		Wage earne	ers.		16 and	over.	Und	er 16.	Capital
INDUSTRY AND CITY.	ber of estab- lish-	Total.	Pro- prie- tors and	offi- cers, super- in-			Aver-	Number, 1	ith day of—	Total.	٠				
	ments	100001	firm mem- bers.	tend- ents,	Male.	Fe- male.	age num- ber.	Maximum month.	Minimum month.		Male.	Fe- male.	Male.	Fe- male.	

	THE ST.	ATE-	ALL IN	DUST	RIES	сомв	INED	AND S	SPEC	IFIED	INL	USTR	IES-Co	ntinued.				
1 2	Coal-tar products	15 43	944 1, 811	2 17	62 103	23 480	23 123	834 1,088	Fe Se	924 1, 191	Je ³ Mh	711 986	919 1, 092	912 532	7 552		8	Dollars. 6, 693, 570 9, 778, 088
3	grinding. Coffins, burial cases, and undertakers'	20	1, 377	15	71	100	43	1, 148	Mh	1, 221	Jу	1, 100	1, 125	925	200	• • • • • •		4, 382, 695
4 5 6 7 8 9 10 11 12 13	goods. Coke, not including gas-house coke Condensed milk Confectionery and ice cream Confectionery Lee cream Cooperage Copper, tin, and sheet-iron work. Cordials and flavoring sirups Cuttery and edge tools. Dairymen's, poultrymen's, and apiarists' supplies.	13 30 380 185 195 58 262 8 19	3, 847 806 7, 248 5, 297 1, 951 797 3, 434 178 1, 849 617	3 417 179 238 28 265 4 8	109 41 361 224 137 44 231 15 66 38	268 24 494 382 112 11 135 37 75	63 27 525 375 150 13 153 16 37 51	3, 407 711 5, 451 4, 137 1, 314 701 2, 650 106 1, 663 445	Oc Jy De De	4,257 783 5,423 1,742 789 2,955 139 1,713 480	Oc Ja Jy Ja Mh Mh Ja Se My	2,256 647 3,304 995 627 2,288 89 1,619 418	3, 154 703 6, 230 4, 991 1, 239 800 3, 007 102 1, 658 485	2, 713 639 2, 652 1, 533 1, 119 795 2, 848 71 1, 329 419	329	5	15 15	48, 242, 389 4, 493, 877 18, 347, 323 11, 454, 893 6, 892, 430 2, 800, 774 9, 081, 229 901, 517 3, 727, 289 2, 339, 302
14 15	Druggists' preparations	29 6	835 367	21	46 14	142 8	101 6	525 339	Mh Se	624 373	No Fe	478 300	493 377	219 316	274 61			2, 466, 992 2, 108, 425
16	sive of that done in textile mills. Electrical machinery, apparatus, and	189	32, 501	53	925	2, 817	2,034	26, 672	De	31,551	Му	22, 900	35, 633	27, 377	8, 226	24	6	103, 340, 897
17 18 19 20 21	supplies. Electroplating Emery and other abrasive wheels Englares, steam, gas, and water Engraving and diesinking Engraving, steel and copper plate, including plate artinting.	39 5 44 13 22	314 245 7, 554 56 304	40 2 9 16 15	26 15 265 6 14	5 16 782 1 12	7 11 280 2 8	236 201 6, 218 31 255	De De Au De Jy	291 226 6,667 40 271	Fe Ja My Mh Fe	196 193 5, 673 23 224	291 226 6, 341 40 271	276 224 6, 301 34 174	4U 6	1		274, 591 420, 618 37, 221, 036 76, 292 225, 887
22 23 24 25 26 27 28 29	Engraving, steel and copper plate, including plate printing. Engraving, wood. Envelopes. Explosives. Fertilizers. Flags and banners. Flavoring extracts. Flour-mill and gristmill products. Food preparations, not elsewhere	5 7 12 23 11 44 577 98	8 1, 100 427 1, 539 153 529 3, 563 2, 959	6 1 1 10 42 717 85	27 45 99 10 35 313 139	13 58 190 9 88 228 662	38 19 52 1 39 183 216	1, 021 304 1, 197 123 325 2, 122 1, 857	Ja Se Je Je	1, 108 355 2, 185 144 410 2, 281 2, 133	De Mh Mh	2 969 251 870 111 285 1,937 1,580	1, 118 317 1, 312 120 322 2, 335 1, 930	2 413 316 1, 302 42 222 2, 318 1, 474	10 77	1 2 8	2 2 2 5	2, 340, 930 4, 349, 334 11, 649, 854 272, 317 2, 819, 208 32, 284, 802 19, 405, 119
30 31 32 33 34	specified. Foundry and machine-shop products. Boiler shops. Foundries. Machine shops. Machine shops and foundry com-	703 94	84, 753 3, 156 21, 325 43, 914 16, 358	561 32 86 423 20	135 760 1,975 668	5,666 361 659 3,571 1,075	340	72, 227 2, 517 19, 480 36, 196 14, 034	∮ Ja.	3, 108 23, 525 39, 574 15, 056	My My Je Je	2, 266 17, 134 34, 347 13, 229	79, 985 2, 831 23, 420 38, 571 15, 163	78, 008 2, 825 22, 847 37, 528 14, 808	1,846 6 465 1,025 350	128 108 15 5	3 3	10.570.090
35 36 37 38 39	bined. Foundry supplies. Fur goods Furnishing goods, men's. Furniture. Wood furniture, other than rat- fan and willow	28 36 12 162 116	353 287 444 9, 723 5, 601	7 38 9 92 72	54 18 30 404 225	43 6 89 511 237	35 18 24 370 134	213 207 292 8, 346 4, 933		271 278 342 5,609		181 159 266 4, 157	263 263 349 9, 401 5, 469	259 87 46 8, 642 5, 091	176 303 704 354	55		1,652,556 663,506 898,468 25,896,058 13,959,241
40 41 42 43 44 45 46 47	tan and willow. Rattan and willow furniture. Metal furniture. Store and office fixtures. Gas and electric fixtures. Gas fixtures. All other. Gas, illuminating and heating Gas machines and gas and water	30 35 12 23	299 1,699 2,124 1,012 445 567 221 335	16 27 5 22	16 91 72 56 25 31 31 42	53 11 42 12	155 76 37 12 25 16 30	260 1, 292 1, 861 839 392 447 162 211	De Oc No	175	Jy Fe	204 1,032 1,769 363 360 152 178	316 1,583 2,033 962 401 561 154 202	215 1, 524 1, 812 606 154 452 153 200	70 59 221 340 240 100 1	1		431, 427 6, 086, 589 5, 418, 801 2, 985, 596 1, 087, 124 1, 898, 772 6, 500, 838 1, 393,005
48 49	meters. Glass. Glass, cutting, staining, and orna-	44 37	11,761 664	26	297 49			10, 935 532	De De	12,085 655	Jy Ja	9, 077 430	13, 346 656	11, 376 402	1,916 251	44	10 3	27, 690, 039 988, 143
50 51	menting. Gloves and mittens, cloth, not including gloves made in textile mills. Grease and tallow, not including lu-	35 5 4	2,328 896	22	60 68	33	51	2, 162 711		2,745		1,733	2,635 713	317 706	2, 221 7	27		4, 384, 678 4, 147, 277
52 53 54 55 56 57 58	bricating greases. Soap stock. All other Grindstones. Hair work. Hand stamps. Hardware. Locks.	23 50 7	410 486 574 48 148 5,047	19 25 5 12 24 23 4	23 2 17 142	10 10 145	2 14 161	4, 576	Au Ap Fe De	93 32	Je De No Ja My	318 334 446 29 69	349 364 453 34 94 4,834	345 361 449 6 84 4,089	28 6 734 2			197, 241 11, 160, 691 97, 540
59 60 61	Builders' hardware	10 33 31	551 4, 457 639	15 38	117 34	52	23	23 470 4,083 492	Au De	508 4,427 574	Se Ja Ap	3,699 376	507 4, 294 587	418 3,640 229	89 643 344	11 2	 14	1, 906, 848 9, 156, 303 1, 197, 751 1, 375, 056
62 63 64 65	House-furnishing goods, not elsewhere specified. Ice, manufactured Ink, printing Instruments, professional and scien-	29 141 8 20	459 2,544 532 718	18 85 11	215 19	87	205	340 1,952 397 601	Jy No Jy	377 2,959 462 693	Ap	300 1, 148 345 501	346 2,176 457 648	173 2, 143 428 332	171 33 29 313			16, 990, 167 2, 799, 717 1, 062, 549
66 67	tific. Iron and steel, blast furnaces Iron and steel, steel works and rolling	42 86	11,055 80,494	3	311 1,395	747 4, 618	204 1, 453	9, 793 73, 025	Ja Ja	12, 137 85, 394	Oc Oc	6, 105 41, 747	11, 211 82, 678	11, 203 81, 667	8 1,010	<u>i</u>		162, 007, 954 511, 271, 910
5 8	mills. Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	23	5, 274	9	130	207	1	4,778	1	5, 334		3, 975	4, 976	4,030	915	26	5	19, 059, 171

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

		<u> </u>	EXP	ENSES.					ł	ľ			POWER			
Sala	ries and w	ages.		Rent ar	nd taxes.	For ma	terials.				P	rimary l	norsepo	wer.		Elec
1.1.1			For					3	Value			Own	ed.		-	tric horse
officials.	Clerks, etc.	Wage earners.	contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	added by manufac- 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.	power generated lish- ment reporting.

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued

			111111111111111111111111111111111111111	A I E.—A	ומאו יימי	STRIES C	OMBINE	D AND SPI	ECIFIED I	NDUSTI	RIES-Continue	d.			
Dollars. 211,077 432,027	Dollars. 44, 872 1, 413, 224	Dollars. 1,046,539 933,690	Dollars. 33, 490	Dollars, 23, 042 67, 675	Dollars. 525, 693 271, 290	Dollars. 5, 184, 305 22, 796, 144	Dollars. 204, 960 80, 757	Dollars. 9, 494, 586 29, 271, 332	Dollars 4, 105, 321 6, 394, 431	4, 899 3, 105	2,387 160	30 423	2, 482 2, 522	1,646 546	1 2
154, 324	229, 973	1, 182, 354	100	4, 374	415, 307	2, 784, 435	55, 324	6, 474, 900	3, 635, 141	1,983	1,102	290	591	1,250	3
425, 411 127, 316 1, 349, 734 1, 003, 164 346, 536 113, 036 747, 556 45, 280 191, 345	498, 458 58, 740 1, 185, 763 934, 989 250, 774 44, 495 353, 609 94, 481 171, 731	6, 559, 347 708, 177 4, 571, 129 2, 986, 890 1, 584, 239 790, 284 2, 916, 330 .99, 926 1, 612, 611	12,577 4,829 720 4,109 8,250 9,106	72 5, 293 344, 820 279, 769 65, 051 17, 682 99, 564 22, 938 8, 318	1, 805, 337 1, 492, 762 312, 575	3,347,874 8,398,148	237, 503 509, 503 217, 449 292, 054 37, 888 91, 321 4, 206	46, 514, 213 17, 197, 564 39, 185, 084 25, 146, 428 14, 038, 656 4, 882, 780 15, 809, 262 2, 090, 198 4, 254, 814		43, 119 2, 486 14, 385 5, 010 9, 375 2, 043 3, 105	16, 067 1, 826 1, 964 1, 097 867 1, 650 75	292 1, 681 229 1, 452 37 845	13, 582 365 10, 740 3, 684 7, 056 2, 185	252 58 218	4567891011
112, 139	125, 081	429, 507	1,400	5, 672	77, 127	2,042,730	13, 578	3, 471, 313	1, 415, 005	3,320 696	925 505	735 72	1,660 119		12 13
148,943 37,744	359,605 31,666	395, 284 383, 650		10, 248 5, 118	56, 440 16, 494	1,773,505 661,524	15,999 82,878	3,941,307 1,513,608	2,151,803 769,206	422 3,551	135 3,400	7	280 151		14 15
3, 690, 316	5,779,063	30,652,032	1 1 1	373,956		70, 633, 187	1,664,020	156, 924, 143	84,626,936	42,753	4, 533 8	2,068	36,144	14, 150	16
53, 886 49, 276 1, 012, 009 9, 400 49, 718	7,724 45,035 1,377,454 1,720 26,172	325, 822 135, 802 8, 032, 602 40, 375 313, 953	1,246	26, 205 1, 360 31, 053 4, 118 18, 848	57,072	136, 178 275, 731 19, 988, 093 18, 177 173, 905	28,674 355,688 889	717,924 828,801 42,850,677 118,025 825,800	524, 396 22, 506, 896 98, 959	12, 961 58	135 4,455 81	195 6 2, 762	639 227 5, 663 58 103		17 18 19 20 21
170, 999 191, 002 299, 344 30, 344 153, 392 926, 752 671, 865	50, 436 116, 191 318, 067 12, 627 231, 618 453, 835 1, 184, 447	2,024 879,539 417,024 1,500,901 80,713 346,677 2,439,116 2,106,794	6,910 500	663 318,173 2,905 7,859 4,904 41,941 22,811 42,372	53 130,667 170,728 486,137 13,361 114,058 781,557 1,497,882	4,728 3,846,974 1,387,511 7,909,525 218,506 4,775,051 76,334,609 37,167,823	86, 151 161, 718 3, 092 24, 935 767, 472	2,790,301	2,014,723 1,316,639 5,970,812 210,924 1,796,352 12,294,538	4,086 7,179 248 419 47,830	3,399 100 133 22,493 73	132 386 50 19 10,737 6,211	9% 267	1,676 747 1,236	22 23 24 25 26 27 28 29
13, 769, 691 581, 775 2, 975, 336 7, 732, 483 2, 479, 497	773, 345 1, 394, 249 7, 462, 167	95, 261, 522 3, 262, 791 27, 174, 013 46, 750, 259 18, 074, 459	9,270 46,412 473,644	24,507 55,848 474,412	14,605,567 554,139 2,113,646	139, 362, 319 9, 389, 300 24, 413, 416 81, 636, 487 23, 923, 116	7, 935, 946 427, 116 2, 944, 461 2, 971, 978	347, 635, 394 16, 655, 001 70, 792, 433 197, 202, 913 62, 985, 047	200, 337, 129 6, 838, 585 43, 434, 556	1	42,419 2,219 5,793 720	12,267 332 405 2,290 7,542 362	113, 635 3, 302 29, 577	59, 310 9, 464 6, 843 24, 143	30 31 32
182,429 50,077 93,339 1,470,363 847,657	99, 303 27, 214 185, 207 1, 109, 885 543, 021	234, 169 252, 936 227, 862 8, 518, 618 5, 007, 936	37,737	11, 884 40, 895 16, 169 163, 559 95, 444	46,608 7,804 25,504 991,738 367,417	1,917,293 575,718 1,394,756 14,200,097 8,160,666	45, 221 3, 085 4, 622 379, 446 220, 610	3,259,085 1,201,147 2,184,979 35,224,313 19,441,448	1, 296, 571 622, 344 785, 601 20, 644, 770 11, 060, 172	2,008 236 59 16,870 11,241			1,411 236 39 5,584 4,216	42 5.744	35 36 37 38 39
40, 905 324, 219 257, 582 149, 261 54, 416 47, 475 154, 039	16, 375 344, 886 205, 603 221, 102 35, 358 185, 744 27, 576 121, 472	218,794 1,582,952 1,708,936 717,819 219,455 498,364 225,483 288,207	2,998 1,498	8,944 28,785 30,386 14,630 3,610 11,020 1,692 10,570	17, 112 251, 855 355, 354 28, 699 11, 279 17, 420 85, 618 117, 500	463, 541 2, 901, 408 2, 674, 482 1, 699, 898 704, 770 995, 128 82, 978 1, 026, 600	10, 646 70, 047 78, 143 42, 058 13, 848 28, 210 274, 820 8, 786	1,081,444 7,564,902 7,136,519 3,365,205 1,201,492 2,163,713 887,298 1,934,405	607, 257 4, 593, 447 4, 383, 894 1, 623, 249 482, 874 1, 140, 375 529, 500 899, 019	192 1,367 4,070 952 399 553 822 750	775 3,145 170 35 135 707	89 10 242 120 50 70 110	103 582 683 662 314 348 5	1, 353 2 678 100	40 41 42 43 44 45 46 47
1,092,229 119,902	763, 239 65, 227	12, 111, 911 471, 823	31, 279 344	95, 968 26, 356	1, 147, 955 46, 681	8, 984, 050 1, 384, 405	3,668,347 15,868	35, 240, 877 2, 566, 134	22, 588, 480 1, 165, 861	37, 831 405	19,165 6,750 50	3,325 5	8,596 316	23, 797	48 49
201.944	98, 216	1, 151, 938	8, 195	22, 179	225, 980	4,868,998	40,082	7, 567, 764	2, 658, 684	839		51	788	*******	50
1 55, 488	72, 963	859, 525	4,985	4,636	92,097	3, 425, 817	367, 203	5, 638, 572	1,845,552	4,424	2,568 12		1,726	453	51
77, 291 78, 197 65, 307 3, 785	33,775 39,188 20,801 1,551	406, 603 452, 922 476, 705 19, 359 87, 009	2,080 2,905 3,747	725 3,911 1,752 5,270 17,025	61,945 30,152 32,261 147 2,811	1,040,593 2,385,224 147,791 17,487 123,740	177, 503 189, 700 51, 851 167 2, 984	2,076,609 3,561,963 1,090,317 78,742 410,264	858, 513 987, 039 890, 675 61, 088 283, 540	1,979 2,445 2,950 2 87	1, 109 1, 459 12 1, 938	93 25 368	777 949 644 2 87	371 170	52 53 54 55 56
46,613 617,862 17,105 50,040 550,717 110,255	24, 854 515, 850 2, 020 77, 714 436, 116 131, 620	4, 819, 457 32, 383 451, 908 4, 335, 166 471, 137	28,844	31,451 5,645 6,140 19,666 34,642	574, 159 755	6,930,772 124,578 1,160,049 5,646,145 1,660,693	591, 192	16, 694, 357 252, 410 2, 306, 553 14, 135, 394 2, 916, 457	9, 172, 393 126, 655 1, 120, 827 7, 924, 911 1, 249, 480	7,818 70 1,624 6,124 92	1,833 700 1,133	340 80 65 50 80 225	5,565 5 794 4,766 92	857 234 623	57 58 59
103,305	79, 464	245, 491		11,413	41,793	1,405,683	21,314	2, 165, 366	738, 369	79 3	620		173	5	62
516,857 79,499 131,497	237, 438 220, 017 44, 847	2, 617, 976 515, 197 534, 326		14, 067 4, 995 16, 358		3, 511, 412 321, 734	1,504,006 62,916 16,561	10, 208, 061 5, 514, 817 1, 423, 501	7,310,000 1,940,489 1,085,206	34,930 2,184 415	26, 474 795 1, 460	370 25	6,820 354 290	1,019 1,170 75	64 65
1, 292,048 6, 504,749	1,614,880 9,988,611	20, 223, 931 137, 281, 312	112,954 2,201,860	481 8.660	3, 552, 844 17, 895, 874	88, 780, 004 352, 138, 966	48, 906, 103 28, 920, 707	179, 233, 435 626, 370, 025	41, 547, 328 245, 310, 352	359, 224 865, 036	222, 164 70, 494 528, 304 144, 518	38,555 20,651	28,011 171,563	48, 283 285, 988	66 67
850,777	606, 488				1, 266, 172	9, 825, 714	523, 584	23, 451, 461	13, 102, 163	11,053	2, 796	370	7,887	2,826	68
er e	li tëst	e a stantja i t		I I	* San	ie number r ie number r	eported for eported th	one or more roughout the	other mont	hs.					

MANUFACTURES—OHIO.

								TABL	46	.—D]	ETA:	ILED	STAT	EMEN'	r of	ALL	IND	USTRIES
					PERS	ONS EN	GAGED	IN THE	NDUS	TRY.			WAC NEARI	E EARN	ERS DE	c. 15, o	R AY.	
					Sala-	Clerk	s, etc.	<u></u>	Wag	e earne	ers.			16 and	over.	Und	er 16.	
	INDUSTRY AND CITY.	Num- ber of estab-		Pro- prie-	ried offi- cers,				Nur	nber, 15	th da	y of—						Clamita
	INDUSTRY AND CITY.	lish- ments	Total.	tors and firm mem- bers.	super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average num- ber.		imum onth.		imum nth.	Total.	Male.	Fe- male.	Male.	Fe- male.	Capital.
	THE S'	TATE-	-ALL I	NDUS	TRIE	в сом	BINE	DAND	SPE	CIFIE	D IN	DUST	RIES-Co	ntinued			1 1	
_			2 2 2 2		100	0.50	100	5 001		C F00	0-	F 701	2.015		0.4			Dollars.
1 2	Iron and steel, forgings, not made in steel works or rolling mills. Iron and steel, tempering and welding	38 47	6, 676 239	5 59	189 23	358 8	193 9	5, 931 140	Ja De	6, 563 170	Ja	5, 701 103	6, 017 171	5, 992 166	24 5	1	·····	23, 945, 063 449, 047
2 3 4 5	Iron and steel, tempering and welding Iron and steel, wrought pipe Jewelry Knit goods	8 52 34	4,937 868	67	59 29 128	298 50	146 64 118	4,434 658	Au De De	4,970 829 5,149	Se	3,415 531	4,546 818	4,495 535	276		23	39, 309, 921 1, 716, 788
6			4,824 276 1,234	13 2 3	26 42	158 7 55	13	4,407 228 $1,095$	No	257 1,307	Ja	3, 586 179 777	5, 122 249 1, 303	1,008 131 1,206	4,060 118 97		40	13, 564, 745 864, 341 3, 906, 616
789	Lamps and reflectors. Leather goods, not elsewhere specified Leather, tanned, curried, and finished	13 24	187 1,738	11 17	15 80	14 44	11 32	136 1,565	Oc	159 1,791	Ja	1,363	151 1,733	80 1,702	70 31 1		1	470, 039 26, 995, 409
10 11 12	Lime Liquors, malt Lithographing.	73 28	1,365 4,039 2,312	13 9 10	68 282 109	59 343 126	78 128	1,191 3,327 1,939	Jу	1,315 3,935 2,103	De	958 2,776 1,764	1,197 2,814 2,091	1,196 2,787 1,715	27	2		6,040,374 47,005,389 8,364,037
13 14	Looking-glass and picture frames	18	609 214	10 2	25 19	126 31 88	24 35	519 70	No Oc 3	569 74	Ja Mh	455 65	530 78	410 76	120 1	1 1		1,563,309 1,268,720
15 16	Lumber and timber products. Lumber, planing-mill products, not including planing mills connected	514 378	4,039 5,862	653 288	149 472	54 390	48 217	3,135 4,495	De De	3,543 5,021	Ja Ja	2,850 3,736	4, 129 5, 497	4,109 5,439	14 56	2	••••	6, 697, 051 21, 702, 984
17 18	with sawmills. Machine tools Marble and stone work, except slate.	102 191	16,112 1,987	29 196	663 117	1,038 122	527	13,855 1,504	De	15, 305	Му	12, 911	15,333 1,553	15,064 1,550	260 1	9		56,626,865 7,512,160
19 20	Monuments and tombstones Other marble and stone work,	143 48	739 1,248	161 35	60 57	60 62	48 21 27	437 1,067	Au Jy	468 1, 185	Ja Fe	356 861	465 1,088	462 1,088	î	2		2, 106, 060 5, 406, 100
21	except slate. Mattresses and spring beds, not elsewhere specified.	40	712	22	64	39	34	553	Se .	600	Ja	*468	58 8	426	159	3		2, 515, 818
22	Millinery and lace goods, not else- where specified.	41	1,245	52	69	46	45	1,033			••••		1,102	268	813		18	1,598,158
23 24	Embroideries Trimmed hats and hat frames	7 20 14	192 908 145	5 27 20	10 50 9	84 34 71 68 3 69	30 9	163 767 103	Oc 3 Fe Jy	877	Fe ⁸ Je Ja	150 591 87	167 822 113	46 197	120 605	2	····i8	290, 792 1, 104, 594 202, 772
25 26 27	All other	217 200	1,343 1,239	247 235	106 91	71 68	52 42	867 803	Jу	1,066	Ja	569	844 778	25 788 733	88 25 14	30 30	1 1	4, 419, 267 3, 694, 133
28 29	All other Minerals and earths, ground or other- wise treated.	17 44	104 2,193	12 6	15 107	69	10 51	64 1,960	Oc Ja	123 2, 223	Ja My	31 1,795	66 1,968	1,968	11			725, 134 8, 884, 083
30	Mirrors, framed and unframed, not elsewhere specified.	10	288	7	15	12	11	243	De	285		218	301	240	61	•••••		438, 850
31	Models and patterns, not including paper patterns.	138 9	1,525	168	91 96	39 92	35 111	1, 192 2, 480	De Ja	1,533 2,995		890 2, 224	1,539	1,529 2,492	7 255	3	•••••	2, 371, 064 8, 447, 379
32 33	Motorcycles, bicycles, and parts Mucilage, paste, and other adhesives, not elsewhere specified.	12	2,780 89	1 6	15	8	7	53	Je	65	Se	46	2,747 60	33				216, 246
34 35 36	Musical instruments, organs	6 10 6	75 902 1,048	10 1	10 52 22	37 31	2 26 14	53 787 980	De De De	60 979 1,113		45 595 768	59 979 1,117	54 825 931	5 152 186	·····ż		154, 985 3, 054, 456 2, 813, 705
37 38	Oil, linseed Oil, not elsewhere specified	3 21	357 592	5	17 54 39	43 156 40	27 75 63	270 302 365	Ja Ap De s	295 325 377	Mh	248 280 346	250 306 378	246 297 300	4 9 72			3, 822, 151 2, 784, 096 978, 459
39 40 41	Optical goods	- 31 61 49	519 3,569 7,563	5 12 16 1	228	788 210	340 184	2, 197 6, 899		2,379 7,464	Ja Ap	1,930 6,306	2,349 7,447	2,098 6,468	251 972		3	23, 193, 526 74, 498, 111
42 43	Paper goods, not elsewhere specified. Patent medicines and compounds.	22 202	2,014 1,705	1 7 128	64 171	119 309 239	69 208 158	1,755 889 698	No	1,800	Ap	1,716 650	1,815 1,036 824	1,139 512 372	676 520 448	2 2	<u>2</u> 2	9, 153, 644 6, 534, 040 4, 904, 519
44 45	Patent and proprietary medicines Patent and proprietary com- pounds, not elsewhere specified.	58	1,307 398	128 86 42	126 45	70	50	191	No De	- 1	Jу	162	212	140	72		2	1,629,521
46 47	Paving materials Perfumery and cosmetics	77 36	1,212 657		99 62	70 126	17] 158 345	966 281 2, 431	Au No	1,313 364	Fe Ja	591 196	1,226 367	1, 226 93 2, 372	272	1	····i	4,872,743 1,778,353
48 49 50	Petroleum, refining	20	4,890 1,656 238	5 3	70 46 19	2,044 55 15	126 16	1, 424 185	Au De Ja	2,556 1,885 224	Ja Au	2,331 908 163	2,400 1,889 182	1,640 82	28 243 92	2 8	4	1, 778, 353 46, 545, 550 3, 492, 734 386, 244 687, 598
51 52	Photo-engraving	30 37	578 1,565	11 25 11	62	48 67	40 39	417 1, 375	Se	453	Ja.	348 524	455 1,416	428 557	14 852	12	1 7	687, 598 6, 599, 462 2, 807, 822 3, 791, 640
53 54 55-	Preserves. Pickles and sauces. Plumbers' supplies, not elsewhere	14 23 48	815 750 2,228	11 14 15	59 32 27 135	36 31 110	17 22 71	719 656 1,897	Je Se De	924 1, 225 2, 244	Ja My Mh	481 1,567	786 630 2, 240	236 321 2,094	550 302 143	3	7	3,791,640 5,785,918
56	specified. Pottery	95	12, 246	25	410	245	227	11, 339					12,050	8,506	3, 501	22	21	21, 576, 324 18, 055, 257 3, 521, 067
57 58 59	Chinaware	59 36 13	10, 461 1, 785 142	18 13	331 79 9	201 44 7	190 37 8	9, 732 1, 607 105	Fe &	1,687	Fe Se Ap	9,041 1,517 76	10,410 1,640 153	7,240 1,266 107	3, 152 349 46	11 11	7 14	3, 521, 067 405, 443
	packing establishments.						.									20		- 1
60 61 62	Printing and publishing, book and job. Job printing. Book publishing and printing	871 808 9	11, 213 10, 335 447	709 668 5	695 624 19	597 483 23	707 572 31	8, 505 7, 988 369	De No	8, 767 422	Ja Ja	7,376 333	9,364 8,762 423	6, 466 6, 062 241	2, 829 2, 633 181	62 60 1	7	25, 482, 824 22, 933, 987 1, 494, 859
63	ing.	30	237	17	30	23 87	99	4	Fe	10	De 3	3	13	12	1			641,345
64 65 66	Linotype work and typesetting. Printing and publishing, music. Printing and publishing, newspapers	24 11 794	194 84 13, 708	19 9 586	$\frac{22}{12}$ 790	34 2, 403	5 15 2,302	144 14 7, 627	De Jy		Ja Ja	124 12	166 11 8, 114	151 9 6, 667	14 2 1,368	72	·····	412, 633 423, 634 37, 353, 788
67	and periodicals. Printing and publishing.	91	6,085	36	235	1.676	693	3, 445	No	3, 595	Fe	3,272	3,582	3,288 3,374	270 1,097	24	7	17, 642, 121 18, 931, 414
68 69	Printing, publishing, and job printing. Publishing without printing	507 196	7,057 566	465 85	421 134	612 115	1,382	· 1	De De 3		Ja Je ³	3, 961	4, 526	5,374	1,09/	48	(780, 253
	1 Includes water wheels and turbines	.,					•						ater from		ne)	1		

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

			OWER.	P								nses.	13.1.15.			
Elec-		ver.	orsepor	imary h	Pr			.]	erials.	For mat	d taxes.	Rent an		iges.	ries and wa	Sala
tric horse- power gener- ated in estab- lish- ments report- ing.	Rent- ed. ²	Wa- ter pow- er.1	Internal- com- bus- tion en- gines.	Steam tur- bines.	Steam en- gines (not tur- bines).	Total.	Value added by manufac- ture.	Value of products.	Fuel and rent of power.	Principal materials.	Taxes, Federal, state, county, and local.	Rent of factory.		Wage earners.	Clerks, etc.	fficials.
				tinued.	ES Cor	USTRI	IFIED IN	AND SPEC	MBINED	STRIESCO	LL INDU	ATE-A	THE ST			
4, 237	17, 155	- Annual Control	670	625	2,580	21, 030	Dollars. 20, 877, 455	Dollars. 39, 563, 464	Dollars. 2, 104, 855	Dollars. 16,581,154	Dollars. 3,003,951	Dollars. 71,400	Dollars.	Dollars. 7,622,833	Dollars. 686, 476	Dollars. 898, 509
50 11, 971	482 4,851		9	800	4,635	491 10, 289	546, 132 14, 238, 316	755, 415 37, 968, 236	36, 287 725, 748	172,996 23,004,172	34, 532 1, 911, 354	17,940	5,044	222, 852 7, 209, 734	16, 267 683, 388	69, 402 372, 417 95, 267 903, 914
5, 853	297 1,438 244		85			297 2, 688 244	1,580,115 7,699,604 605,567	3, 349, 547 18, 778, 844 1, 156, 023 7, 186, 768	15, 236 89, 117 10, 142	1,754,196 10,990,123 540,314 4,087,891	24, 615 992, 989 10, 829	40, 529 116, 651 9, 946	18,625 14,393 1,724	618,936 3,032,899 216,443	175, 452 572, 309 34, 100	95, 267 903, 914 73, 834
32	2,768 148		8			3,061 156	3,017,067 380,706	7, 186, 768 992, 124	81,810 4,359		151, 099 8, 111	5, 254 8, 469	765 1,000	1,547,742 104,387	174, 287 18, 246	211, 477 40, 578
1, 972 1, 199 6, 404	1,614 5,578 2,901		775	667 807 2,275	2,612 2,015 30,495	5, 063 9, 175 35, 924	6, 190, 279 2, 320, 106 18, 065, 655	992, 124 25, 008, 070 4, 021, 106 25, 161, 227	193,028 746,122 1,292,012	18, 624, 763 954, 878 5, 803, 560	550, 846 146, 550 3, 875, 969	4,005 178 7,225	4,008 3,074	2, 171, 888 1, 261, 937 4, 453, 390	139, 647 125, 265 675, 199	342,072 182,774 ,106,783
1,530	1,440 438	:::::	285		995 225	2,720 663	5, 606, 857 1, 198, 261	9, 150, 614 2, 050, 220	1, 292, 012 52, 583 17, 219 10, 442	954, 878 5, 803, 560 3, 491, 174 834, 740 904, 870	147, 450 41, 330 36, 580	7, 225 46, 770 13, 444	45, 482	2,007,817 462,248	405, 324 91, 618	475, 937 66, 736
135 1,501	113 2,011 14,410	85 35	533	279	100 17,901 10,268	232 20, 809 28, 302	1, 114, 217 6, 835, 769 12, 076, 704	9, 150, 614 2, 050, 220 2, 029, 529 12, 031, 472 32, 428, 847	79, 982 361, 513	5, 115, 721 19, 990, 630	36, 580 99, 077 435, 391	1,904 16,224 135,003	182,341 58,985	81,549 3,048,798 5,213,136	273, 499 111, 336 650, 105	80, 274 348, 603 , 093, 057
9,309	18,056		915		4,649		45,077,334	62, 554, 169	745, 468	16. 731. 367			406, 294	17, 071, 620	2,028,768	2,511,242
2, 499	3,525 1,460		1,517 1,114		3, 137 116	25, 255 8, 179 2, 690	4,684,123 1,826,668	7, 201, 876 3, 156, 652	154, 864 40, 313	2,362,889 1,289,671	6, 294, 723 90, 903 25, 183	119,528 40,519 19,416	42, 141 12, 025	1,912,274 645,440 1,266,834	240, 516 106, 676	322, 089 146, 654
2,490 30	2,065 872				1	5, 489 1, 054	2, 857, 455 1, 604, 144	4, 045, 224 4, 199, 164	114, 551 35, 735	1, 073, 218 2, 559, 285	65, 720 53, 802	21, 103 35, 742		1,266,834 564,728	133, 840 102, 556	175, 435 188, 832
70	379				85	464	1, 738, 950	3,632,168		1,874,004	90, 823	54,633		792, 048	103, 517	190, 766
70	41 304				85	41 389	319, 287 1, 222, 809 196, 854	474, 856 2, 797, 140 360, 172	2,647 14,145	152, 922 1, 560, 186	1,525 88,406	11,877 33,869	260	145, 556 580, 111	7, 205 80, 547	25, 555 151, 825
3	34 1,302 1,199		106 84		656 643	34 2, 199 1, 928	196, 854 3, 514, 711 3, 201, 315	6.769.394	78,678	160, 896 3, 176, 005	892 271, 135 243, 579	33, 869 8, 887 51, 835 51, 374	4,992	66, 381 989, 351	15, 765 124, 166	151, 825 13, 386 223, 266
3	103 8, 120		22 688	133	15, 170	271 24,006	313,396 4,641,778	6, 122, 895 646, 499 6, 860, 653	4,665	2,847,567 328,438 1,444,406	27, 556 336, 811	461 69,079	4, 893 99	935, 771 53, 580 2, 348, 263	114,638 9,528 179,994	197, 905 25, 361 334, 071
	206		36		70	312	387,624	1,099,215		697, 198	11,008	6,713		148, 250	51, 151	60, 587
2	1,856		ritud.) :	4,500	6,731	3,756,023	5, 459, 746	1.17	100 100 100 100	121, 256	58, 164	1 1	1, 914, 688	64, 204	329, 122
	8,019 75		- 60 8		1,210	4,289 94	5, 744, 234 176, 860	10, 874, 030 469, 672	164, 483 5, 387	4, 965, 313 287, 425	513, 059 9, 264	7,643 9,069	1,036	3, 339, 074 43, 892	238, 406 15, 606	273,305 42,657
20	49 240 1, 403		20 95 346		600	69 935 1,743	140, 095 1, 515, 644 1, 987, 353	233, 193 3, 475, 543 3, 088, 393	1,505 19,126 32,754	91, 593 1, 940, 773 1, 068, 286	1,386 63,078	2,464 43,742	2,380	67, 275 743, 274	2,012 67,090	14, 810 135, 497
25	666				850	1, 516	1,608,027	9, 368, 779 8, 985, 985	64, 214	7,696,538	123, 115 105, 992	27,075 612		1,029,368 275,212	61, 551 96, 106	102, 014 89, 725
1, 24	366 176 6, 167				206 1,520	597 176 8, 187	2, 439, 715 1, 079, 172 13, 250, 596	8, 985, 985 1, 885, 134 36, 848, 364	90,678 14,103	6,455,592 791,859	105, 992 105, 945 47, 642	20, 112 60, 533	l	366, 147 370, 945	304, 364 100, 108	254, 792 108, 926
25, 22 1, 28	2,983 1,846	2, 105	30 47	11,579	47,725 1,920	64,420 3,813	19, 387, 848 7, 357, 961	36, 848, 364 55, 098, 196 15, 368, 229	2,947,471 115,623	32,762,877 7,894,645	1,200,986 2,112,475 2,180,085	25, 859	12,500	2,315,325 8,094,230 1,627,664	1,432,871 684,671 227,308	, 091, 126 , 320, 891 433, 929
26 20 6	632 434 198		14 14	×	250	1,069 699 370	6, 514, 137 4, 817, 816 1, 696, 321	10, 860, 925 7, 941, 142 2, 919, 783	50, 481 23, 791 26, 690	4, 296, 307 3, 099, 535 1, 196, 772	556, 002 483, 302 72, 700	75, 092 54, 747 20, 345	8,051 7,685	688, 601 503, 849	680, 054 486, 802	550, 689 401, 241
27	6, 054 134		422			23, 303 179	1, 910, 784 2, 840, 952	2, 951, 533	269, 906		76, 472	14.740	1,338	184, 752 896, 304	103, 950	149, 448 222, 309
19 5	1, 883 778		25	1, 170	4, 175 695	7, 383 1, 498	11, 324, 724	43, 282, 801 6, 220, 534	6,477 1,961,063 45,262	29, 997, 014 2, 910, 371	3 819 640	21, 160 230		213, 129 3, 245, 959 1, 786, 629	277, 721 2, 441, 744	179, 050 359, 868
1, 37	91 245 384		35			116 280 2,002	415, 180 1, 536, 208 3, 340, 054	677, 958 1, 813, 310	45, 262 7, 966 15, 918 102, 556	254, 812 261, 184	78, 596 17, 007 16, 162	11, 308 36, 998		151, 245 646, 869 1, 288, 981	121, 908	129, 472 52, 383 170, 319
1,37	195 189		30 41		1, 143	629 1, 373	415, 180 1, 536, 208 3, 349, 054 1, 020, 351 2, 328, 703	2, 951, 533 4, 119, 975 43, 282, 801 6, 220, 534 677, 958 1, 813, 310 10, 451, 455 4, 807, 531 5, 643, 924 8, 083, 340	29, 577 72, 979 134, 208	770, 843 1, 272, 546 29, 997, 014 2, 910, 371 254, 812 261, 184 6, 999, 845 3, 757, 603 3, 242, 242 3, 551, 405	159, 507 79, 601 79, 906 96, 569	19, 813 11, 308 36, 998 31, 854 27, 875 3, 979	350 362	386, 261 902, 720	192, 814 116, 112 76, 702	201, 898 115, 265 86, 633
71	2, 178 2, 687	-	614	135		2, 893 10, 131	4,001,121		134, 208	3, 551, 405 6, 721, 172	96, 569 886, 527	82, 933 25, 640	21,027	2,023,624	354, 068	86, 633 465, 899
60 11	2, 381 306 99		534		3, 930 2, 765	6, 980 3, 151 105	19, 662, 920 16, 659, 554 3, 003, 366 235, 357	28, 675, 361 24, 631, 507 4, 043, 854 1, 916, 574	2, 281, 268 1, 877, 842 403, 426 5, 348	6, 731, 173 6, 094, 111 637, 062 1, 675, 869	789, 152 97, 375 3, 464	25, 640 22, 534 3, 106 8, 384	77, 377 816	11, 558, 318 10, 083, 945 1, 474, 473 111, 929	820, 230 627, 688 192, 542 10, 420	, 222, 746 , 008, 358 214, 388 16, 471
38 36		1	812 675		735	9, 628 8, 857	24, 019, 764 21, 322, 321	39, 201, 684 35, 128, 676 2, 068, 029	319, 782 293, 908	14, 862, 138 13, 512, 447 1, 200, 925	571, 483	657, 841	1, 007, 485		1, 360, 392	. 128, 365
Ĩ	451 76		137		30	623 76	1, 343, 713	1, 467, 663	20, 616 234	13, 512, 447 1, 200, 925 123, 716	571, 483 541, 811 17, 703 8, 726	608, 472 20, 013 12, 461	1, 007, 485 279, 671 2, 054 721, 516	8, 535, 053 336, 329 2, 962	1, 166, 779 42, 684 139, 249	63, 854 84, 762
2, 08	72 10 10, 830	23	1,010	45	2, 050	72 10 13, 961	507, 242 385, 108 40, 125, 410	537, 316 447, 037 58, 567, 435	5, 024 247 402, 303	61,682	3, 243 5, 155 1, 933, 940	16, 895 8, 326 358, 946	4, 244 128, 061 2, 270, 258	223, 428 9, 662 9, 411, 413	11, 680 44, 364 4, 834, 362	46, 819 21, 974 427, 824
2, 08	6, 626 4, 195	10 13	78 932	42 6	75 1, 975	6, 831 7, 121	21, 322, 645 15, 866, 298	31, 937, 610 23, 520, 203	168, 225 233, 442	10, 446, 740 7, 420, 463	l	,	1		2, 745, 401 1, 735, 257	
	9	 	ļ		ļ	9							1, 428, 389			, 084, 733 251, 923

-				,	PERSO	NS ENG	AGED 1	N THE I	VDUSTR	Y.		WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					
					Sala-	Clerks	, etc.		Wage	earnei	rs.		16 and	over.	Unde	er 16.	
		Num- ber of estab-		Pro- prie-	ried offi- cers,				Numb	er, 15	th day of—						Capital.
		lish- ments	Total.	and firm mem- bers.	super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average num- ber.	Maxin mon		Minimum month.	Total.	Male.	Fe- male.	Male.	Fe- male.	
	THE ST	ATE-	-ALL II	vDUS?	rries	COMI	BINEI	AND	SPECI:	FIEL	INDUSTI	RIES-Co	ntinued				
1234567 89 1011231415 16718920 21 22324256728 2930 313233 345 36 37839 4941243 44456 47849 50552354 4456 677 5589 661	Printing materials. Pumps, not including power pumps. Pumps, steam and other power. Steam pumps. Other power pumps. Refrigerators. Regalia, and society badges and emblems. Roofing materials. Rubber tires, tubes, and rubber goods, not elsewhere specified. Saddlery and harness. Safes and vaults. Safes. Vaults. Sates. Vaults. Sates. Vaults. Sausage, not made in slaughtering and meat-packing establishments. Suasage. Saws. Screws, machine. Shipbuilding, steel, new vessels and repair work. Shipbuilding, wooden, including boat building. Shirts. Show cases. Signs and advertising novelties. Electric and other signs. Advertising novelties. Slaughtering and meat packing. Smelting and refining, not from the ore. Sporting and athletic goods. Stamped and enameled ware, not elsewhere specified. Stamped ware and bathtubs. Stationery goods, not elsewhere specified. Stamped ware and bathtubs. Stationery goods, not elsewhere specified. Steam fittings and steam and hotwater heating apparatus. Radiators and cast-iron heating boilers. All other Steel barrels, drums, and tanks, portable. Steel barrels, drums, and tanks, portable. Stenelis and brands. Sterootyping and electrotyping. Stoves and not-zir furnaces. Stoves gas and oil. Structural fromwork, not made in steel works or rolling mills. Surgar, beet. Surgical appliances. Suspenders, garters, and elastic wowen goods. Tinware, not elsewhere specified. Schovels, spades, scoopin, and hoes. All other. Toys and games. Trunks and valises. Typswriters and supplies. Umbrellas and canes. Vanishes. Vinegar and cider. Vinegar.	9 20 11 5 6 6 10 6 10 8 5 10 10 9 6 10 8 5 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	50 1, 552 789 282 282 1, 115 1, 550 89, 774 1, 052 2, 225 1, 302 2, 225 1, 184 4, 063 11, 566 209 2, 185 1, 233 1, 233 2, 573 1, 343 6, 007 1, 285 1, 408 2, 185 1, 408 2, 185 1, 506 1, 506 1, 507 1, 5	6 6 17 44 3 3 11 11 11 4 4 2 2 2 2 5 18 10 7 7 7 136 6 6 5 2 2 4 5 5 5 5 5 5 12 10 12 5 5 5 5 5 12 10 12 5 5 5 5 5 12 10 12 5 5 5 5 12 10 12 5 5 5 5 12 10 12 5 5 5 5 12 10 12	9 9 76 48 8177 311 199 27 27 24 48 88 100 18 8 15 8 16 22 20 20 66 60 60 60 60 60 60 60 60 60 60 60 60	55 1288 811 122 699 188 116 159 17, 808 17, 210 172 238, 337 112 205 694 4 26 120 58 62 115 502 289 21 205 62 110 7 100 7 31 31 49 205 62 110 7 100 7 100 7 100 100 100 100 100 1	4 4 4 56 46 46 46 46 46 46 46 46 46 46 46 46 46	1, 265 610 242 368 135 894 1, 138 63, 637 799 1, 821 1, 598 269 167 102 1, 44 4, 259 11, 192 20 1, 900 273 1, 907 979 979 979 5, 38 88 762 3, 834 1, 197 2, 637 766 2, 723 464 2, 259 1, 581 1, 581 1, 598 8, 699 4, 652 1, 417 4, 329 4, 652 1, 417 4, 329 4, 652 1, 699 6, 942 6, 995 6, 942 6, 995 6, 942 6,	De Mh De Oc 7. De Mh Oc 3. De Mh Oc 3. De Mh Oc 3. De Mh Oc 3. De De Mh Oc 3. De De De Oc	25, 24, 261, 261, 261, 261, 261, 261, 261, 261	Ja 21 My 1,203 Au 233 Mh 199 Ja 1,31 Ja 1,071 Ja 53,904 My 675 Fe 1,411 Se 1,213 Ap 450 Ap 130 Ja 3,541 De 9,279 No 90 Jy 1,816 Ja 702 Fe 706 My 4,905 Mh 905 Ja 2,302 Ja 705 Ja 2,302 Ja 705 Ja 86 Je 728 Mh 995 Ja 2,302 Ja 705 Ja 86 Je 728 Mh 1,04 Ja 4,555 Fe 394 My 2,074 De 50 My 1,214 Ja 422 Jy 4,444 Mh 1,009 Ap 3,624 Ap 4,555 Fe 188 Fy 236 Mh 240 Ap 3,624 Ap 4,555 Au 307 Ja 1,307 Ja 246 Ap 4,555 Au 10,529 Au 367 Ap 4,525 Au 10,529 Au 367 Ja 1,307 Ja 266 Ap 688	28 1, 405 774 231 144 144 943 1, 213 75, 300 906 2, 978 1, 855 1, 223 1, 145 4, 762 10, 407 2, 260 1, 972 2, 260 1, 197 5, 200 1, 200 1	281 1,353 763 232 1,353 1,341 144 147 3,967 10,388 248 248 1,347 842 1,347 842 1,347 842 1,347 842 1,347 1,3	7 11 11 571 28 6,705 744 43 32 111 65 5 5 1 795 19 9 12 221 691 469 240 860 9,541 66 240 860 9,541 83 83 85 83 1,014 85 85 83 1,014 85 85 85 85 85 85 85 85 85 85 85 85 85	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2	Dollars, 153, 7311 4, 585, 535 2, 281, 153, 7311 1, 558, 7311 1, 558, 7311 1, 558, 7311 1, 558, 7303, 707, 044 1, 525, 520 1, 049, 538, 120, 027, 14, 525, 520 1, 049, 538, 120, 027, 177, 383 1, 1, 208, 120, 120, 120, 120, 120, 120, 120, 120
62 63 64 65	Wall plaster and composition flooring Washing machines and clothes	14	22 884	22 6 16 4 4	43 32	1	48	6	Se Oc	36 22 891 638	De 4 Ja 410	21 837	24 18 835 624	3 2			28,747 28,747 2,904,782 1,388,575
66	wringers. Window and door screens and weather strips.	15	237	11	17	14	1	1	Ap	214	Ja 140	<u> </u>	183			ļ	404,038
67 68	Wirework, including wire rope and cable, not elsewhere specified. Woven wire fencing.	47	113	1	12	3	11	86		100	Oc 73	2,005 75	1,703 75 1,628				9,726,218 623,174 9,103,044
69	All other. 1 Includes water wheels and turbines 2 Chiefly electric motors operated by 1	. 140								1,952 ors (o) y shaf						g powe	
				, -													

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

			EXPE	NSES.				į				I	OWER.	#10 4 Fall () 4 Fall ()	olanski 1878/18 Samon Bright
Sala	ries and wa	ges.	· . ·	Rent an	d taxes.	For mat	erials.			10	Pr	mary h	orsepower.		Elec-
			For		Taxes,			Value of	Value added by	ļ		Own	ed.	_	trie horse- power gener-
fficials.	Clerks, etc.	Wage earners.	contract work.	Rent of factory.	Federal, state,	Principal materials.	Fuel and rent of power.	products.	manufac- ture.	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Internal-combustion engines.	eu	ated in estab- lish- ments report- ing.
			THE ST	1 - 3 Tr A	I.I. INDII	STRIES C	OMBINET	AND SPE	CIFIED IN	DUSTRI	ES-Cor	ntinued			-
	Dollars.	Dellan		Dollars.			Dollars.	Dollars.	Dollars.				1		1
27, 468 27, 468 276, 390 272, 546 61, 116 211, 430 38, 008	11, 161 274, 858 126, 489 22, 328 104, 161	Dollars. 31, 118 1, 400, 741 681, 666 257, 624 424, 042 143, 734	1, 592	10, 220 22, 350 26, 290 8, 670 17, 620 4, 460	55, 355 185, 897 13, 046	Dollars. 63, 859 2, 670, 598 1, 656, 745 350, 167 1, 306, 578 312, 130 1, 695, 339	2, 219 96, 190 31, 134 13, 635	271, 456 7, 392, 564 3, 401, 276 971, 878 2, 429, 398 598, 861 3, 987, 065	205, 378 4, 625, 776 1, 713, 397 608, 076 1, 105, 321 279, 365	417	220 220 150		130 110 20 87	397	79 12 12 12
133, 181 254, 407 061, 668			1, 784 2, 576, 359	10, 768 18, 066 6, 122, 977			1	1	4, 876, 422 251, 755, 957	11	2,781	77, 657	205	4, 26	1, 1
132, 548 403, 134 356, 212 46, 922 139, 147 90, 767	125, 248 298, 540 260, 635 37, 905			29, 107 26, 138 25, 418	457, 444 633, 583 585, 434 48, 149 109, 421	3, 019, 719 3, 335, 165 2, 528, 439 806, 726 932, 947 4, 160, 569	16.558	5, 142, 703 9, 477, 847 7, 907, 804 1, 570, 043	2, 106, 426 6, 037, 502 5, 286, 145 751, 357 1, 287, 391 1, 157, 386	567 2, 704 2, 247 457 8, 259 1, 279	1, 190 1, 190 6, 930	950	150 150 5	1, 05 20 37	5 5 1 2,0
90, 767 61, 942 28, 825 23, 683 615, 545 762, 639		426, 305 279, 108 147, 197 161, 033 5, 042, 791 19, 424, 226		3, 257 5, 046 7, 500	61, 793 6, 233	2, 979, 424 1, 181, 145 302, 858	23, 142 13, 433 8, 647 221, 292	3, 765, 020 1, 589, 510 639, 634 16, 599, 431	762, 454 394, 932 328, 129 11, 290, 598	867 412 562 10, 504	14(1, 1, 77	5	133 45 80 165	59 35 48 8, 56	2 2
38,021	1	and the second				538, 970	ł	11		1		2 1	0 82		11
361,625 61,193 321,065 184,383 136,685 977,566 110,176	205,318 32,973 630,372 233,406 2396,966 1,234,264 17,237	1,182,936 277,773 1,604,698 921,668 683,026 6,689,371 109,400	14, 22 5 2, 000 L 42, 347	9,019 56,925 44,829 12,096	20,845 194,409 98,334 96,075 926,334	543,53 3,096,13 1,398,95 1,697,18 149,656,67	U; D71,104	1,177,12 7,903,62 3,852,53 4,051,09 170,337,89	al 4, 730, 73	80 9 2,16 4 1,19 5 96 3 19,92	34 1,01 62 38 10,76	0 0 5 5 5	166 134 32	10 97 10 42 55 8,21	9 2 4 2 1 9 3,2
98, 579 762, 64	1 .	1	9,400	6,784	28,820	1,178,00 6,944,48	6 20,023 2 428,048	2,853,78 15,466,16	6 1,655.75 1 8,093,63	7 59 1 5,45	14 1,25	0	169 949	3,20	61 10
340, 92 421, 72 173, 31	2 130, 543 3 227, 732	1.308.17	328 5 3,85	35.66	141,581 384,019	2, 535, 56	ki .	5,316,32 10,149,83 4,645,86	4 5,378,07	9 3,42	8 85	0	635	1,30	3 (
27,05 676,27	4		9	5, 560		212, 15	1 4,58	522,71 11,852,03	7 305, 97 4 7, 902, 93	8 12 7 5,20		5 5	55 16	3,2	16 15
46, 98		A	1 -	7,990	1			11	1	11	11	*		2,3	li .
629, 28 34, 64 388, 99	9 362,861 7 14,912 6 239,839	68,73	7 9,98 1 20	0 3,510	1,591,408 4,719 668,431	163,90	5 169, 14 4 2, 96 3 141, 51	4 365,04	2 198, 11 4 4, 850, 41	6 6,62	1,10	0	60 16 29 400	5,1	10
19, 61 84, 30 965, 24 667, 53	S 53,31' O 987,23	7 544,44 3 7,423,82	9 29,97 0 3,74	7 32,20 3 66,83	9,481 8 562,962	781,23 10,417,73	2 40,62 4 379,16	8 1,975,17 9 25,009,26	1,153,31 0 14,212,35 4 10,369,53	8 1,35 7 9,20 0 7,02	9 3,67 6 3,04	10	1,225	1, 3 4, 1 2, 7	35 03 1, 51
297, 70 557, 74 1,405, 07	31 909,55	1,947,45 7,526,97 1,7,491,62	2	17,48	4 1,659,278	10,615,45	2 106, 57 51 215, 52 8 401, 71	7, 506, 19 8 23, 578, 21 4 41, 792, 72	$\begin{array}{c c} 3 & 12,747,23 \\ 20 & 17,021,78 \end{array}$	21,99	6 1,17 8 5,14	30 79 11	580	2,5 16,2	92
90, 17 37, 85 69, 90	9 47,88 0 35,27	1, 126, 64	8	9,20 6,32	199,529 8 45,970 8 20,529	447, 27	09 288,70 23 3,34 24 7,13	7, 249, 15 6 941, 28 9 1, 413, 75	35 490,71 35 641,80	6 11 2 15	5 3	20		1	90 33
269, 91 696, 87 1, 172, 16 68, 86 786, 74 316, 61	488, 37 4 430, 90 33 1, 161, 13 96 33, 86 45 781, 25 12 346, 01	6 2,459,03 3 7,181,60 1 9,817,50 9 477,40 0 7,060,59 2 2,279,50	15 17 13 9, 20 16 64, 52 16	77 191, 16 23 125, 66 1, 16	9 2,937,48 0 318,45 3 2,360,16 6 258,86	2 13,043,37 8 10,326,78 4 1,052,00 5 6,096,00	12 45,02 36 250,21	3 23, 136, 9	15,738, X 73 21,791,50 92 1,393,20 71 16,790,6	12, 9 1, 8 72 8, 5 27 2, 5 19 2, 2	6 2,3 7 2,3 3 2,0 6 8	50 50 75 25	1,531 424 117 990	10 9,0 1,1 10 6,3 1,5	59 25 2, 43 11 1, 71
268, 88 116, 51 16, 80 53, 30 515, 33 4, 80 4, 80	33 93,64 17 63,74 20 43,39 25 69,98 37 624,13 37 5,14	4 1,224,85 5 357,06 6 92,7 2 132,58 8 870,63 6 23,60 6 19,5	35 18 39 10 32 39 2i 48 20	20, 10, 90 10, 90 15, 44 7, 71 1, 42 00 1, 39	00 19,73 00 8,45 16 4,89 15 222,91 1,89 00 1,59	5 796,0° 1 315,5° 0 915,7° 8 8,606,3° 3 204,7° 9 185,6°	20 4,13 49 2,57 09 102,77 09 2,59 04 1,32	714, 9 1, 345, 2 13, 629, 4 13, 629, 4 331, 0 289, 0 42, 0	78 395, 5 34 426, 9 46 4, 920, 3 55 123, 7	55 2. 24 59 59 53 2,26 53 4:83 1:	15 13 13 14 15 16 17 18 18 18 19 19 10 11	25 65 60 60	6 17 129 20 109	20	45 47 81 51 51 69 2,
124,30 95,2		908,4	18	33,92	97,18	3 2,082,1	54 175.07	4,430,9 6 2,945,7	34 912,5	11 .	37 3	17 65	45		57 47
38,4	` [8,91								60 75	arc		1,
361,9	1 1	1	į.		9.02	5 592,7	13 11,83	923,0	34 318,4	84 1	85	75	92		73 25 1,
22,5 339,3	95 13,12 35 839,16	110,2 0 1,999,7	99 1,88 59 10,2	24,48	348.71	71 3,625,6	11 104,59 r reported	5 7,786,7 for one or m			,				

			1	erson	IS ENG	AGED I	N THE I	NDUSTR	Υ.		WAG NEARE	E EARN	ERS DE	n sa thair		
				Sala-	Clerks	, etc.	<u></u>	Wage	earne	rs.		16 and	over.	Und	er 16.	
INDUSTRY AND CITY.	Num- ber of estab-		Pro- prie-	ried offi- cers,				Numl	be r, 1 5	th day of—					4,	Capital
	lish- ments	Total.	and firm mem- bers.	super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average number.	Maxii mor		Minimum month.	Total.	Male.	Fe- male.	Male.	Fe- male.	: <u>.</u>
THE ST	ATE-	-ALL I	DUST	TRIES	сом	BINE	D AND	SPEC	IFIEI	INDUST	RIES-C	ntinued	•		v	
Wood preserving. Wood, turned and carved. Wooden goods, not elsewhere specified. All other industries *	6 47 16 420	552 1,039 387 53,341	1 42 9 250	22 56 23 1,700	61 19 13 4,040	30 11	444 892 331 45, 124	Dě Au	499 973 376	Ja 38 Je 80 Se 30	965	454 918 316	47	6		Dollars. 2,463,960 2,417,611 732,625 284,983,942
* All other industries embrace— irplanes, seaplanes, and airships, and parts— mmunition	Boot Cann Carra Cars, ope Cash chin Charc the ind Chew Chooc	and showing and sages and electric reations (or register nes	e findin preserve sleds, c railroad of railroad s and includi and v	gs. ing, fish hildre i, not ad con calcul ng pro vood (includ npanler ating duction distillat	6 1 in ion ion 2 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	mad Cordan Corset Cotton Cotton Crucih Denta Enam Engra Fancy Felt ge	e from ge and i s. i goods i lace i small ides, gla l goods eling vers' m ardes ardes	metal twine wares. ss hou asterial	ns, except or rubber. se pots. se sewhere sp	1 7 4 4 5 1 1 1 1 1 1 2 2 2 2 5 5	Galvar Gloves Glucos Glue, c Gold a not i Hardy Hats, i	and m e and s other th nd silve from th vare, sa fur-felt.	ittens, tarch. nan fish er, redu e ore. ddlery.	leather	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.															(
AKRON—All industries	304 16 4 50 8	91,069 74 58 652 555	20 2		10		45 45 434	Je Au No Je 3	76 53 475		4 52 1 44 6 482	393		 		191,657 122,586
clay products. Copper, tin, and sheet-iron work Foundry and machine-shop products. Liquors, malt. Lumber, planing-mill products, not including planing mills connected	14 36 3 8	189 3,464 218 293	9	18 119 9 11	2	108	3,026 185	Au De Jy Au	3,301 251	Fe 10 Se 2,26 Ja 15 Ja 21	3 3,300 1 153	3,258 150	4	1 2 3 7		413,425 13,040,311 1,768,835 1,657,997
with sawmills. Pottery, china, earthen, and stone ware. Printing and publishing, book and job. Printing and publishing, newspapers and printing and publishing.	25 25 8	395 736 303	il I	17 4	4	5	594	De	696	De 30 Ja 45 Fe 19	716	46	24	9	l	959,956 2,638,239 1,074,047
and periodicals. Rubber tires, tubes, and rubber goods, not alsowhere specified. Signs, other than electric. Stoves and hot-air furnaces. Tobacco, cigars	22 5 3 7 90	77,054 20 452 11 6,595		13		0 1	1.	Au a	64,371 21 488	Ja 3 Mh 2	64,994 9 16 12 471 4 5,751	16 47) 		2	11,239 1,481,128 2,696
*All other industries embrace— utomobile bodies and parts. 5 utomobiles 1 wrings, tents, and salis. 1 elting, leather 1 ookbinding and blank-book making. 1 coses, set-up paper boxes 1 rushes 1	Carpe Carris Cars and com Clean	er	wagons ral sho s by	p con stean	structi n-railro prepa	2 1 on sd 1	Coope Electr and Electr Engra Engra inch	rage, hi ical r supplic oplatin ving ar ving, s iding p	ogshea nachin es ig id dies steel a late pi	ce creamds and barr ds and barr lery, apps sinking nd copper rinting	els	Flour- Food spec Furnit Glass, men Grease	ture, sto cuttin ting	d grist ations, ore and g, stai tallow	mill pronot not office ning, a	oducts elsewhere fixtures and orna- including
CANTON—All industries	\	23,425	182	686	1,41	80.	20,330	No	21,95	Oc 18,8	22,013	20,00	7 2,00	0 (3	102,977,458
A Agricultural implements. Automobile bodies and parts. Automobile repairing. Bread and other bakery products. Confectionery and ice cream. Foundry and machine-shop products iron and steel, steel works and rolling mills.	21 33 13 27 6	1,776	9	21 14 15 15 83 160	1 1 9	3 1 7 1 0 6	2 23 1 15 2 16 5 12 0 1,52	Ap Mh Mh Au De De	32 16 17 13 1,80 11,15	4 Au 3 9 Ja 1 10 Ja 1 7 Ja 1 7 Je 1.3	81 31! 222 22 44 14! 58 200 94 122 37 1,81! 28 11,110	2 14 16 5 1,66	2 9 0 4 6 6 14	1 .	1	1,498,112 48,039 452,151 506,554 365,218 6,050,118 54,570,386
Iron and steel, welding. Lumber, planing-mill products, not including planing mills connected with sawmills.	3 12	216	4 6	18	1	2 1		4 Oc 9 Oc	19	5 Ja 9 Fe 1	3 26 17	17	5 3	i		33,175 1,363,645

			EXP	nses.								P	OWER.			
Sala	ries and w	igos.	18	Ront an	d taxes.	For mat	erials.	est a light			Pr	imary h	orsepow	er.		Elec-
fficials.	Clerks, otc.	Wago earners,	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam engines (not turbines).	Owner Steam turbines.	Inter- nal- com-	Wa- ter pow- er.1	Rent- ed. ²	tric horse-power generated in establishments reporting.
		Inga ja ja	THE ST	'ATEA	LL INDU	STRIES C	OMBINEI	O AND SPI	CIFIED IN	DUSTI	IES—Co	ntinuec	1.			
00llars, 102,724 108,368 48,955 974,706	Dollars. 125, 829 44, 040 33, 873 8, 937, 826	Dollars, 504,152 873,859 263,796 51,072,180	10,000 113	4,351	Dollars. 52, 527 133, 269 22, 703 20, 528, 693	Dollars. 2, 261, 525 1, 901, 542 683, 135 221, 303, 971	28, 973 12, 566	Dollars. 3,498,431 3,721,708 1,303,378 374,888,508		4,610 1,017	2,723 458	4,906	J	90	335 701 398 46,127	307 86 50 39,557
velry and rd, refine ng and nents sts ud, bar luors, di luors, vi comotive ompanic lt stells	d instrume od, not ma most-pac pipo, and s stilled nous ss, not ma ss.	nt cases. do in slaug doing esta heet ado by rai and mate	diterblish- 5 1 5 1 1 1 5 1 1 1 1 1 1	Oil, esser Oileloth, Oleomar Ordnane Paper pa Peanuts and sh Pens, for Photogra	ntial. and linoler enameled. garino. e and acces tterns. grading, elling. untain and uphic appa	nsood, floor,	1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Screws, wo Sewing-ma Sewing ma Sewing ma Sewing ma Sewing ma Sewing ma Sewing, ke Soap Sewing, state of the Sewing sewing sewing manufic, Type found Inholsteric	balances od chine cases chines and a bad apparatus el, automob ntrie, and n nd terneplat hewing and ling ng materials s and ventile	ileixed acies	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Waste Watch Watch Wheel Winds Wire. Wool Wool Woole Worst	icases ies, wat ibarrows mills	ch mov	ements	er mills.
		CITIES C	F 50,000	INHABI	TANTS C	R MORE-	-ALL INI	OUSTRIES	COMBINE	OAND	SPECIFI	ED IN	DUST	RIES.		
928, 553 2, 600 6, 299 101, 022 63, 104 54, 230 735, 564 122, 557 107, 707	42, 378, 127 2, 200 4, 528 168, 551 40, 132 12, 716 458, 758 36, 567 48, 488	69, 746 528, 520 603, 554	46, 550 300 295	1, 724 5, 454 40, 931 510	17, 805, 096 2, 030 1, 255 44, 743 50, 408 12, 385 255, 970 98, 881 22, 334	71, 212 46, 996 2, 672, 891 204, 897	2, 212 2, 421 58, 509	172, 147 146, 141 4, 212, 196	1, 480, 706 1, 031, 688	90 27 483 2, 598 11, 031 2, 662	21 2, 385 675 2, 541	79, 807	24 7 145 1,564 36	i e fa	61, 771 72 21 455 68 8, 792 10	1,382 1,095
58, 843 153, 606 92, 955	28, 033 131, 059	378, 480 079, 487 289, 649	18, 837 5, 258	15, 970 4, 949	22, 334 20, 174 52, 195 66, 695 15, 809, 731	158, 224 1, 787, 668	89, 169 28, 946 18, 027	812, 435 3, 289, 029 1, 701, 194	565, 042 1, 524, 415 1, 051, 142	760 780	625 335	42 73, 557	86 137		58 317 539 42,307	80 14 2,572
2, 600 70, 266 097, 238	5, 522 48, 055 1, 880, 325	27, 082 610, 165 4, 200 7, 781, 523		2,603 1,104 1,030 106,241	2, 717 32, 200 1, 540 1, 385, 832	17, 257 567, 418 9, 808 41, 987, 930	57,688 120	1,814,480 20,102	51, 782 1, 189, 374 10, 177 20, 573, 007	11 - 12			5 1,083		930 8, 073	6,408
c, printi n and s ng mills n and st mps rble and	ng teel, steel cool, woldir l stone wo	works and	roll-	Mineral Models paper	and carbon and patter patterns	ing bods, no nated waters ns, not incl um, floor	uding 3	Pickles, pre Saddlery ar Sausage, n and mea Slaughterin Sporting ar Steam pack Structural steel wor. Surgical ap	eserves, and nd harness ot made in -packing est ag and meat nd athletic g ding ironwork, ks or rolling pliances	saucesslaughte ablishme packing fods not mad mills	2 2 2 2 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	Wheel	shes barrow back	s	reans	i cified
		20, 122, 434	104, 540	103, 176	2, 762, 671	60, 267, 252				52,933		8, 592	992		24, 799	19, 223
65, 965 2, 500 30, 450 15, 712 42, 720 201, 250 773, 908	40, 078 848 15, 871 48, 848 16, 650 67, 363 1, 280, 876	28, 004 242, 355 200, 944 95, 842 1, 520, 070	37, 557	480 1, 020 20, 156 10, 350 8, 674 7, 214 	502 8, 792 8, 024 37, 461 278, 576 1, 109, 985	549, 860 87, 833 327, 038 1, 013, 936 358, 156 3, 136, 894 32, 134, 101 10, 386 1, 834, 058	28, 455 12, 718 171, 032 3, 233, 085	25,756	61, 226 481, 560 518, 157 340, 387 5, 259, 119 28, 006, 708	289 289 2,879	1,035 10,400	7, 667	25 100 4 30		12, 749 21	1, 074 15, 383
	-7,-70	1. 18				ne number					[[6, 1, 1	

=	PERSONS ENGAGED IN THE INDUSTRY. WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.															
					PER	SONS E	NGAGE	D IN TH	INDU	STRY.						
		Num-			Sala- ried	Clerk	s, etc.		Wag	e earne	rs.		. 16 and	over.	Under 16	
	INDUSTRY AND CITY.	ber of estab- lish-		Pro- prie- tors	offi- cers, super-				Num	ber, 15	th day of—					Capital.
	· '	ments	Total.	and firm	in- tend- ents,	Male.	Fe- male.	Aver- age num-				Total.	Male.	Fe- male.	Male. Fe	- N
				bers.	and man- agers.		шаю.	ber.		mum nth.	Minimum month.			11,0.0		~
												<u> </u>				
_	CITIES OF 50,000 INHA	BITAN	TS OR	MOR	E-AI	L INI	UST	RIES CO	MBII	NED A	ND SPEC	IFIED 1	NDUST.	RIES—	Continued	
1 2	CANTON—Continued. Marble and stone work, except slate. Models and patterns, not including	4 3	16 33	4 6	····i	· · · · · · · · · · · · · · · · · · ·	2	12 24	(8) Au	12 36	(3) 1 Oc	2 3 25				Dollars. 27,700 43,414
3	paper patterns. Printing and publishing Signs and advertising novelties	19 7	322 99	23 4	18 5	43 1	4	85	De De	206 134		137	21			631,693
5 6	Structural ironwork, not made in steel works or rolling mills. Tobacco, cigars and cigarettes All other industries *	9	394	10	27 1	54	15	14	De Apr	325 4 15	Jy 266 De 1	15	321	3		7,798
		117	8, 268	47	318	454	339	7,110				7,370	6,226	1,144		35,558,982
Art	*All other industries embrace— minum ware. 2 ificial stone products. 4 tomobiles. 1	Carriag only	es and	wagons	s, repa	ir wor	k . 2	Druggis	ts' pre	paratio	ls, pocketk	2	Foundr Fur goo	y suppl	ies	1 2 6
Aw Bel	rnings, tents, and sails	and comp	nd gener repairs panies ing and p	by e	lectric	railroa	1 1	Electro	ipplie plating	s g	ry, appar	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Gas lixt Hardwa	ures re. sado	llerv	2
Bri Bro	ck, building 1 boms, from broom corn 1 tter 3	CIDENT	ig, men's ig, wome roasting	n's			. 31	Fancy a	rticles till and	, metal I gristr	and water. I novelties. nill product not elsew	s 1	Instrum	ients, m	redical and	surgical 1 shutters 1 of made in
Car	riage and wagon materials I	Copper	, tin, and	l sheet-	iron w	ork	2	specifi	ed		1104 CIBOW	1	steel v	vorks or	rolling mi	lls: 2
1 2	CINCINNATI—All industries. Artificial limbs.	2,239	86, 169 28	1, 925 3	3, 789	6,694	4,081	69,680	De '	77, 149 20	Ap 64,807 Mh 18	77, 911	57, 929 17	19,730	159 9	
2 3 4 5	Automobile bodies and parts Automobile repairing Bookbinding and blank-book mak-	6 38 48 22	1, 228 416 217	34 50 29	62 26 7	88 23 5	69 31 11	975 286 165	No De No	20 1,353 297 180	Fe 607 Mh 275 Ja 153	1,342	1, 283 307 86	55 4 86	3 6 3	3,339,846 442,559 238,682
6	Boots and shoes, not including rub- ber boots and shoes.	22	7, 382	5	207	301	300	6, 569	De		Ap 6, 218	6, 889	4, 223	2, 613	35 1	11
8	Boxes, cigar Boxes, paper and other, not elsewhere specified. Boxes, wooden packing, except cigar	19 19	906 906	8	45	20 20	1 25	127 808	No De	863	Ja 122 My 768	870	56 313	74 536	<u>2</u> <u>1</u>	. 115,423 9 1,514,769
10 11	boxes, wooden packing, except cigar boxes. Brass, bronze, and copper products Bread and other bakery products	10 13 182	394 915	13 14 193	13 25 60	5 32	28 156	360 816	Au Mh	854	Ap 300 Oc 777	384 837	374 793	10 . 37	7	1
12 13	Biscuit and erackers. Bakery products, other than biscuit and crackers.	178	2,345 841 1,504	193	25 35	32 191 77 114	32 124	1,745 707 1,038	De	852	Jy 1,631 Jy 576 Fe 994	1,959 852 1,107	1,374 432 942	580 420 160	4	2, 345, 991
14 15 16	Brick Brooms, from broom corn Butter	4 6	99 63 251	4 8 2 7	7	1 2 22 5	1 1 49 8 10	86 52	Je De Jy	57	Fe 59 Fe 47 De 128	91 57	91 57			281, 674 90, 534
17 18	Carriage and wagon materials Carriages and wagons, including re- pairs.	9 9 19	251 272 281	20	27 10 16	5 19	8 10		Au My	274	Ja 163 Ja 182		103 239 187	13 14 13	1	921, 148 717, 782 592, 757
19 20 21	Carriages and wagons. Repair work only Cars and general shop construction and repairs by steam-railroad com-	8 11 10	209 72 1,687	5 15	10 6 33	17 2 112	10 19	167 49 1, 523	My De De	59	No ⁴ 147 Ja 35 Ap 1,405	147 53 1,660	135 52 1,626	12 1 34		569, 790 22, 967
22	Danies. Chemicals	9	311	1	27	63	46	174	A 17	199	Talking.	195	180	15		1, 312, 936
	Cleausing and polishing preparations. Clothing, men's. Regular factories. Regular factories.	12 108 52	6, 511 5, 758	12 136 64	12 172 167	21 612 612	283 281	5, 308 4, 634	My De De	6, 195 5, 480	Ja 25 Ap 3,618 Ap 3,972	30 6, 196 5, 481	21 2,067 1,911 1,764	9 4, 115 3, 557	3 11 2 11	
23 24 25 26 27 28 29 30	Regular factories Men's, youths', and boys' All other Contract work Clothing, women's. Coffee and spice, roasting and grind-	42 10 56 34	4, 946 812 753 1, 129	136 64 57 7 72 43	149 18 5 40	553 59	251 30 2	3, 936 698 674	De No	4,675 805 716	Ap 3,378 Mh 573 My 4 646	4, 676 805 715	1,764 147 156	2,902 655 558	2 8	11, 495, 147 2, 531, 080 71, 146
31	Confectionery and ice cream	12 58	1, 782	68 68	20 68	106	54 34	351	Au Se	407	My 791 Mh 296	948 357	305 165	625 192	1 - 17	2, 169, 934 2, 508, 010
33	Cooperage	6 32 24	133 906 682	6 26 13	10 60 47	103 2 46 46	145 2 42 34	732	Ja	120 994	Mh 1,273 Mh 108 Jy 645	1,567 121 745	567 120 669	990 1 76	5 5	ll '680',005
35 36	Supplies. Electroplating. Engraving and dissipling	5 7 9	63 26	5	3	2	2	51 16	De De Ja	64	Jy 494 Fe 42	615	583 58	32 9		2, 743, 304 2, 951, 351 46, 873
- i).	Engraving, steel and copper plate, including plate printing. Flavoring extracts. Flour-mill and gristmill products.	14	130 224	9 15	1 14	1 42	18	118	Je Se 4	132	Au 4 15 Fe 96 Fe 120	118	16 69	49		16, 944 59, 263
41	specified.	14	74 208	14 8	23	6 17	9 11	38 149	De Fe	169	Му 32 Se 133	140 46 189	95 46 122	43 67		1,245,132 403,749 601,864
43	Fur goods	133 7 3 41	6,982 153 25	93 3 1	358 20 2	575 24 1	241 19 2	87 19	Se	6,743 99 25	A D 14	6, 673 95 18	6, 526 93 7	145 2	2	18, 252, 464 453, 107
46	Furniture Grease and tallow, not including lu- bricating greases. Hardware	8	1,703 294 567	35 7	91 16	58 21	38 8	1,481 242	De My	232	Au 260	1,600 261	1,467 261	101	32	40, 530 3, 555, 076 948, 336
1	Includes water wheels and turbines (in Chiefly electric motors operated by res	rrespect. nted (or	ive of ow purchase	5 nershir ed) curi	26] of warent; o	53] ter sup ther po	23] ply), a wer in	and water	De moto	523] rs (ope	Mn 385	519 ter from o	424 Sity main	95 s).		1,470,108
					. •	£.			UII Y	D11811 [* [en crans	mitted po	wer from	neighbo	oring powe	r plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

			EXPI	Enses.							1	POWER.					
Sala	ries and w	ages.		Rent ar	d taxes.	For mat	erials.				Pr	imary l	orsepo	wer.		Elec-	
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Own Steam tur- bines.	Internal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	tric horse- power gener- ated in estab- lish- ments report- ing.	
	CIT	IES OF 50	,000 INH	ABITAN'	rs or Mo	RE-ALL	INDUSTR	IES COMB	NED AND	SPECIF	'IED IN	DUSTI	RIES-	Contin	ued.		
Dollars. 1,789 54,794	Dollars. 1,682 85,990		1,264	420 1,920	Dollars. 100 206 22, 644	Dollars. 39, 524 13, 140 323, 827	Dollars. 848 1,028 6,985	Dollars. 82, 650 93, 339	Dollars. 42,278 79,171	31 51 276	15				16 51 276		
118, 874 1 000	2, 919 2, 919 113, 392 1, 073, 925	9.496	47,314	3, 824 1, 000 1, 391	3, 366 1, 174, 289	25, 576 1, 466, 928 13, 254	31, 521	1, 142, 874 91, 853 2, 594, 878 29, 491 41, 003, 461	812,062 65,982 1,096,429 16,019 20,740,698	1, 179 1	125 6,900	925			3 994 1 7,374	130 2,636	
welrv	<u> </u>		1	Paints.			1	Saddlery a	ıd harness	1	1	Snibji	uric, ni	tric, ar	d mixed	acids	
Factor F																	
											58,742	2,498	6, 137				
12, 275 213, 972 46, 249 15, 908	116, 484 47, 953 15, 241	360, 144 124, 218	3,373	44, 172 40, 695 16, 902	72, 142 16, 452 2, 127	721, 394 167, 200	32, 498 18, 996 3, 147	96, 671 5, 207, 453 1, 519, 247 642, 536	70, 590 2,051, 439 778, 857 472, 189 14, 259, 546	134	500 2, 148		14		11,133 276 134 1,659	55	
747,757 10,000 103,221	1,820 43,402	80, 150 525, 748	251	53, 432	3, 616 70, 065	148, 128 1, 222, 775	5, 694 20, 343	31, 223, 081 343, 809 2, 645, 239	189, 987 1, 402, 121	152 761	125 135		13/		27 491 218	2!	
48, 120 178, 914 230, 503 114, 967 115, 536	431, 317 144, 991	855, 667 1, 578, 863 460, 353	2,941 3,566	1 - 2.310	331, 809 341, 147 242, 106	8,750,595 2,888,402	57,329 168,828 48,304	1, 790, 614 3, 641, 519 14, 140, 223 4, 888, 107 9, 252, 116	693, 876 2, 164, 639 5, 220, 800 1, 951, 401 3, 269, 399	173	297 580 150		136 196	Julian 183	607 651 23 628	30: 45: 9:	
21, 695 86, 735 32, 969 54, 915	2, 259 4, 075 43, 387 16, 308	80, 173 51, 731 150, 872 219, 573	3	518 2,916 5,520	9, 695 578 47, 012 8, 989	38, 348 112, 277 7 , 636, 875 575, 405	32,709 1,786 38,948 9,119	253, 019 217, 786 8, 824, 102 979, 250 1, 547, 807	181,962 103,723	815 35 2,015 638	215 1, 544		20		100 35 451 40 130	5	
46, 618 8, 297 90, 349	30, 381 3, 276	173, 272 46, 550	7		i *	911, 213 55, 379	5,576 3,620	1, 386, 790 161, 017 4, 026, 932		218	75		7(3	73	10	
56, 904 49, 604 , 001, 290 991, 495 812, 239 179, 256 9, 795 193, 355 75, 836	1 72 909		5 1 2,028,183 8,2,004,877 8,1,867,319 0 137,558 4 23,300 4 60,998	7,348 4,163 265,101 252,516 225,466 8 27,053 6 12,582 5 57,113 26,465	728, 352 726, 618 488, 067 238, 551 1, 734 60, 771	235, 862 16, 719, 957 16, 697, 097 12, 415, 388 4, 281, 709 22, 860 2, 957, 036	1,715 50,510 49,254 8 38,437 10,817 7,256 11,356	32, 254, 217 31, 394, 174 25, 684, 840 5, 709, 334 860, 043 5, 135, 218	829,927	947 861 629 232	190 190 190				757 671 439 232 86 160	5: 5: 5:	
244, 575 33, 742 272, 720 153, 301		887, 273 119, 58 734, 17	3 450 5 70	81,671 12,300 7 12,987	598, 045 15, 730 96, 403 93, 396	509, 607 2, 735, 874	29,693	9, 428, 209 831, 708 4, 805, 466 2, 613, 032	1,558,588	1,054 922			508		17 546	5 9	
7,768	3, 116 73, 941	20, 14 97, 11 136, 77	3 0 3,10 4	2,302 2 5,552 . 16,209	27, 143	5, 147 44, 666 1, 884, 223	987	2, 644, 384	39, 248 170, 172	14 27	110)			101 14 27 114	::::::::	
3, 275 65, 980	1 1 1 100	47,33	5 8	4, 119 10, 701	12, 186 825, 524	689, 203 9, 739, 133	23,825 366,293	1, 207, 788 1, 092, 547 25, 566, 986 821, 806	379,520 15,461,560	550 9,638	265 1,797	,	92) 5 	430 250 6,916 563	2	
	34,785 915,083 37,514	6, 120, 09 78, 62	0 3	4 5,048	20,074	431,35 14,22	207	46, 767	32,335	7	1				1,238	1 - 1 - 1 - 1 - 1 - 1 - 1	

Destroy No. City Control Contr				WAGE FARNERS DEC. 15. OR														OBILIED
Number 15th day Cupital Total Fig. Section Total S						PER	ONS E	NGAGE	D IN THE	INDU	STRY.		NEAI	AGE EARN REST REPI	ERS DE	C. 15, C	R DAY.	
Total Tota							Clerk	s, etc.		Was	e earne	ers.		16 and	l over.	Unde	er 16.	
CTTES OF AAO INHASTANTS ON MORE—ALL INDUSTRIES COMBINED AND SPECIFED INDUSTRIES—Dominant of the combination of the combinatio		INDUSTRY AND CITY.	ber of estab-		prie-	offi- cers,	254			Nun	aber, 1	5th day of-	-	19 1				Capital.
CITIES OF \$6,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued. 1				Total.	and firm mem-	in- tend- ents, and	Male.		age num-					1		Male.		
CHYCLEN RAT. Con.	Phina																	:
1 Blate and egos, other charfed, strew, 12 208 18 0 22 18 30 00 07 07 17 18 108 19 19 1,05 19 10 10 10 10 10 10 10	_	CITIES OF 50,000 INHA	BITA	NTS OR	MOR	E-AI	L INI	OUST	RIES CO)MBI	NED A	AND SPE	CIFIED 1	NDUST	RIES-	Contin	ued.	
	-	Hats and caps, other than felt, straw, and wool.				. 1	100					_	1	1	189	<u> </u>	14	
Part	3	Jeweirv.	10 24	39 432	13	2		ذ ا	22	Oc 3.	25	Jv 1	8 25	20		. 4		2, 105, 802 40, 181 1, 194, 429
	6	Leather goods, not elsewhere specified Leather, tanned, curried, and finished Liquors malt	13 17	751	12	27	24 116	6	682	Oc	739	Fe 63	5 82 9 732	50 722	31 10 6		1	343,008 15 312 985
14 Metrespelation 14 15 15 15 15 15 15 15	8 9	Lithographing. Lumber, planing-mill products, not including planing mills connected with sawmills.	11 22	391 551	17	18 44	26 51	19 27	320 412	Oc De	353 487	Ja 27 Ja 31	8 344 3 918	292 908	52 10			
Mattresses and spring bods, not else-	11 12 13	Marble and stone work. Monuments and tombstones. Other marble and stone work, except slate.	25 16 9	197 89 108	1.51	12 5	12 4	4	136 57	Au Oc	149 61	Ja 11 Ja 5	4 148 0 60	148 60				584,059 108,804 475,255
Wakes specified. 12 130 15 5 7 4 104 105 15 107	1	where specified.				1 1			5.0				7.5	II 1		2.		512,824
10		Where specified. Mineral and carbonated waters		136	13	8 18	7	4	104	Au	124	Ja 8	3 102	100	2			499,098
Tation and proprietary neutrinos Patent	10	paper patterns. Optical goods	16	160 751	6	14	13	23	104	Oc 8	109	Ja 9	8 108	94	14			259,503
22 Photomography Photomo	20 21 22	Patent and proprietary medicines Patent and proprietary com- pounds, including compounds	31 21 10	238 199	20 10	12]	19 9	64 59	121 109	De De	146 131	Fe 10 Fe 8	0 142 128	57 44	85 84			280,058 229,690
22	24	Phonographs and graphophones	7 11	187	1 6 5	21		3 8 2	136	Oc	156	Ja 10	3 151		6	10	1	130,723
27 Printing and publishing, newspapers 90 2,238 56 225 506 337 1,114 De 1,171 Ja 1,062 1,183 1,047 136 0,331,277	26	riniting and publishing, book and [172	3,314	150	164	173	190	2,637	No	2,937	Fe 2,38	2,918	1,933	973	11	1	a stat accide
Publishing without printing 6 242 40 33 61 108	1	Printing and publishing, newspapers			· •]	- 1		- 1			. 1	- 1 T		h	136			3 March 1980
38 Shirts 9 1,102 4 42 64 40 652 0c 960 Jy 925 956 88 848 2,363 348 34	29	Diminik.	12	546	12	19	46	82	727 387		755 424	Ja 69 Ja 36			95			8,714,050 2,432,462
Steel works or rolling mills	31 32	Shirts Signs and advertising novelties.	13	1,102	4	42 8	64 4	40	142	Jy	167	Ja 10:	155	111	44 .			2,363,394 208,931
Steel works or rolling mills	34 35	Statuary and art goods	11	1,262	6	62	1 171	103	65 923	Se 8 De	1.098	Ja 57 Ap 780	66 1,089	63 1,084	206 . 3 . 5 .			139,563 4,927,280
Machimists tools	37	steel works or rolling mills. Tobacco, cigars	194		131	47		- 1	1,887	De	2,105	My 1,748	2, 121	840	1,281			2,780,938
Attitional store products 1	39 40 41	Machinists' tools	7 8	86 59	6		2	2 5	69 39	Ja Se	116	Je 47 Fe 32	96 44	88 37	8 7			288, 251 139, 720 148, 531
*All other industries embrace—Almininum manufactures. Almininum manufactures. 1 Artificial flowers. 1 Cars and general shop construction and repairs by electric-railroad, not including companies. 1 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including bags made in textile mills. 2 Cars, electric-railroad, not including and refinishing sive of that done in textile mills. 2 Engraving and other abrasive wheels. 3 Engraving, wood. 3 Engraving, wood. 4 Hats, straw. 4 Hats, straw. 4 Hats, straw. 4 Hats, straw. 4 House-furnishing goods, not else-where specified. 5 Ink, printing. 6 Ink, printing. 6 Ink, writing. 6 Ink, writing. 6 Ink, writing.	43	Varnishes	10	36 118	3	19	27	1 10	29 57	No Au	66	Fe 2 25	32 62	22 59	10].			31,191 77,913 688,449
Altrificial flowers	45	All other industries *				833	1,851		16,688	•••••	•••••	•••••	18,500	14, 272	4, 205	21		72, 916, 319
Baskets, and rattan and willow wars. Coffins, burial cases, and undertakers' and rubber. 2 Coffins, burial cases, and undertakers' goods. 2 Coffins, burial cases, and undertakers' goods. 2 Elags and banners. 2 Furnishing goods, men's, neokwear. 3 Condage and twine. 5 Bluing. 5 Cordage and twine. 1 Gas and electric fixtures. 1 Gas machines. 1 Gas machines. 1 Iron and steel, steel works and rolling mills. 1 Iron and steel, bolts, nuts, washers, and electric fixtures. 1 Iron and steel, bolts, nuts, washers, and electric fixtures. 1 Iron and steel, forgings, not made in rolling mills. 2 Gas machines. 1 Gas machines. 1 Iron and steel, forgings, not made in steel works or rolling mills. 4 Glass, cutting, staining, and ornamenting. 5 Cotton small wares. 5 Cottery and edge tools. 2 Gloves and mittens, leather. 1 Iron and steel, botts, nuts, washers, and rivets, not made in steel works or rolling mills. 5 Cotton small wares. 1 Glass, cutting, staining, and ornamenting. 5 Cottery and edge tools. 2 Gloves and mittens, leather. 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.)	Alun Artii Auto Awn Babl Bags bags Bags	ninnm manufactures	Carpets Cars and comp Cars, e opera Cash re Chewin Clocks. Cloth, s	s, rag nd gener repairs sanies lectric-ra tions of r gisters ar	al sho by e ilroad, ailroad ad part	p consideric	structio -railroa neludin anies	g 1 . 1 . 1 . 3 . 3	Emery a Enameli Engines Engrave Engravi Envelop Fancy ar	nd othing , steam rs' ma ng, wo	ler abraterials.	asive whee	15 1 1 2 2 2 1 2	not fro Hair wo Hand sta Hats, fur Hats, str House-fur where: Ink, prin	m the ork	reducir re. g good	igand ds, n	2 5 4 1 1 ot else- 8 6
Belling, leather. 3 Condensed milk. 1 Galvanizing. 1 Infinity of the street of the str	Belti	ing and hose, other than leather	Coal-ta Coffins.	r product burial ca	sses. an	d und	ertakors	2	Fire exti	rs nguish d banı	ers, ch	emical	$\begin{bmatrix} 2\\1\\1 \end{bmatrix}$	tific	ents, pr	ofessio	nal an	d scien-
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.)	Belti Billi	ing, leather 3	goods Conden Cordage	sed milk	ne			. 1	Galvaniz	ng goo ring	as, me	n's, neckw	ear 4	mills.	steel,	bolts,	nuts, v	washers,
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.)	Blui Boot	ng	Cordial Corsets Cotton	s and flav	oring s	irups.		2 !	(Joe man	binoc			î	mills Iron and	steel, f	orgings	, not	made in
² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants.)	1	Includes water wheels and turbings	Cotton Cutlery	small wa	res tools								1	Jewelry a	ind inst	rumen	t cases	
	2	Chiefly electric motors operated by re-	nted (o	r purchas	,		our b	O 11 OL 23	ncluded ((emen'	A smarri.	per or tra-	water from	om city n	nins). n neigh	boring	power	plants.)

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

	·			enses.									POWER			
Salai	ries and w	ages.	sere fel	Rent ar	id taxes.	For ma	terials.				P	rimary l	horsepo	wer.		
State of the	,.st [. 35	For contract	7 Ar	Taxes,			Value of products.	Value added by manufac			Own	ied.			Elec- tric horse- power gener-
fficials.	Clerks, etc.	Wage earners.	work.	Rent of factory.	Federal, state, county, and local.	Principal materials.	Fuel and rent of power.		ture.	Total.	Steam en- gines (not tur-	Steam tur- bines.	Inter- nal- com- bus- tion	Wa- ter pow- er.1	Rent- ed. ²	ated in estab- lish- ments report-
	. is as as		Ann	r to stay	Victory 1	100000		es le v			bines).		en- gines.			ing.
ollars.						RE-ALL		RIES COMB	INED AND	SPECII	FIED IN	DUST	RIES-	Contin	ued.	
40, 600	Dollars, 50,306	Dollars. 181,300		Dollars. 16,570	Dollars. 8,751	Dollars. 726,639		Dollars. 1, 271, 137	Dollars. 541,970	29	•••••				29	
47, 508 4, 180 30, 647	18,022 1,048 48,849	267,070 24,452 323,750 65,110	เ ผมกน	2,700 4,009 24,400	22,133 796 4,601	51,322 42,332 1,387,768	271,920 1,701	1,363,591 103,157 2,263,840	1,040,349 59,124 868,351	5,355 20	4,085	190			1,080 20	432
27, 046 124, 960 356, 589	1,965 50,164	786, 129		4,005	7,137 151,877	420, 988 7, 071, 545 2, 023, 683	2.902	694,283 10,093,997	270, 393 2, 948, 893	133 119 2,187	1 170	667	170		133 119 180	1,023
30, 647 27, 046 124, 960 356, 589 85, 270 110, 875	222,389 71,266 79,907	1, 309, 935 354, 824 415, 235	11,615 1,035	1,900 12,582 15,956	1,702,338 18,835 29,900	579, 183 2, 022, 869	12,556 28,990	7,789,700 1,367,199 3,122,558	5,341,735 775,460 1,070,699	11,973 636 2,699	11,511 120 1,625	Oct	152 25 112		310 491 962	2,216 31 633
155, 929 34, 347 11, 792	752,142 22,024	6,549,150 165,181 81,531	279, 700 2, 583 2, 279	57, 474 7, 572	2,744,578 10,036	6,895,268 261,483 89,353 172,130	268,663 11,635 2,942	25,047,625 667,758	17,883,694 394,640	10,226 789	2,015		245 189		7,966 209	802 200
22,555	4,583 17,441	83,650	304	2,378 5,194	2,335 7,701	89, 353 172, 130	2,942 8,693	25,047,625 667,758 305,935 361,823	394,640 213,640 181,000	208 581	412		167 1		41 168	200
46, 679 39, 813	23,768 24,974			9,172 18,567	5,767 5,121	599,130 483,385	8,675	1,009,064	401, 259				50	••••	182	35
26, 180 43, 314	13,182 11,139	121.926		2,388 9,085	72,101	360, 440	3,858 9,362	980, 387	401, 405 610, 585 746, 828	89 144	20				89 124	
29, 340 218, 782	34,853	105, 282		16,744	83, 277 7, 154	135, 918 142, 989	8,688 3,834	891,434 419,184	41	353 53	1 1	1			.)	•••••
49 847	283, 296 47, 094 25, 143	307, 867 70, 499 59, 551	24,000	34,040 12,220 9,720 2,500	408, 811 8, 953 8, 149	6,987,095 371,298 343,387	88,147 1,716 1,630	10,333,139 779,294 686,668	272,361 3,257,897 406,280 341,651	2,148 38 37	1,040		150		958 38 37	1,200
4, 498	21,951			2,500	804	27,911	86	92,626	64,629	1					1	
11,892 41,745 3,360	3,688 30,611 1,725	50, 214 162, 613 22, 405	3,680 1,512	5,845 9,428 4,100	6,948 2,369 787	108, 937 67, 569 712, 412	1,485 4,726 1,250	252,484 427,367 783,090	142,062 355,072 69,428	132 51 36	6				132 51 30	*******
464, 055	314,215	2,350,266	220,047	185, 351	138, 547	4,303,569	88,172	10,678,735	6,286,994	2,905	310		124		2,471	236
305, 202	929, 524	1,572,681	507, 560	53,356	369, 981	3,011,019	52,887	10, 567, 143	7,503,237	2,920	1,125				1,725	625
172,677 63,752	660,600 137,303	1,186,595 386,086	8,347 800	32,713 7,381	343,588 20,535	2,357,220 613,099	32,793 20,039	7,378,103 2,106,943	4,988,090 1,473,805	1,774 1,146	75 1,050	-	60 10		1, 63 9 86	5 620
68,773 229,722 20,370	131,621 120,099 17,410	527,633	498, 413 31, 348 3, 747	13, 262 43, 250 9, 461 50, 635	5,858 160,002	40,700 2,479,182	16,131	1,082,097 4,248,835	1,041,342 1,753,522 254,333 7,987,616	719	570				149	195
203, 904 8, 766	274, 401 3, 826	135, 205 1, 839, 161 63, 002	500	4,900	3,602 252,852 1,448	167, 933 54, 188, 381 40, 346	5,708 252,361 2,571	427,974 62,428,358 137,418	94. 0010	6,838 73	110 4,008		285 55		182 2,245 18	1,413 28 605
227, 608 89, 016	288, 593 38, 155	1,203,352 307,078	300 13, 247	30, 165 19, 808	125, 472 28, 533	2,567,744 915,131	49,818 20,962	5,251,557 1,626,329	2,633,995 690,236	900 776	570 400		60		330 316	605 425
127, 374 42, 359 30, 204	137, 873 9, 223 4, 555	1,418,327 128,305 93,267	172	50, 054 14, 683 6, 703	587,365 4,406 2,725	2,733,122 67,086 25,328 41,758	14,099 3,340 1,800	5,882,781 368,166 211,847	3,135,560 297,740 184,710	112 167 121			5		112 162 121	15
12, 155 1, 560 5, 227	4,668 936	35,038 15,632		14,683 6,703 7,980 1,244	1,681 236 1,351	30, 0691	1,809 1,531 368 583	156,319 64,073 129,952	113,030 33,636 53,078	46 155 16	150		5		41 5	15
73, 475 7, 105	1,184 75,594 12,186	63, 987 68, 132 15, 635, 266	5,000	3, 723 3, 303 3, 937	15, 961 6, 284	76, 291 701, 826 195, 775	5, 518 3, 345	1, 199, 624 432, 767	492, 280 233, 647	171 101	95		17 25		59 76	28
807, 921 3	3,866,515	15, 635, 266	143, 655	499, 029	6, 731, 214	91, 214, 544	1,234,203	143, 602, 061	51, 153, 314	28,977	14, 524	1,216	1, 187		12,050	13, 404
els and t	tags		2	Paper pa	tterns	sewhere spec stylographic	1	Safes Sausage casi Saws	ngs		4	CHETAT	ndore o	artere a	ind elast	O WOVER
të .	and the second second	heet n alcohol	9	Perfumer Photogra	y and cost	netics ratus	8	Scales and b Screws, mac Show cases.	alances hiпе		$\begin{array}{ccc} \dots & 1 \\ \dots & 2 \end{array}$	Tinwa	re, not	elsewh ing an	ere specii d smokii	ied
1015, dis 1015, vin king-gla:	iousss and pict	ure frames	1	Pickles, p Plated w	reserves, a are, hollow	nd sauces ware	8	Smelting an	d refining,	ot from	the 3	Umbre	ilas an	canes	position	
ricating nber and	greases I timber pr med and	roducts	1	Plumbers	s' supplie	s, not else	where 8	Sporting and Springs, stee	I antomobil	α.		Washi	ng m gers	achine	s and	ciotnes
ewhere	specified	unframed,	ives,	Printing	materials.	shing, music	4	Stamped wa Stationery specified Steam fittin	re goods, no	elsew	here	Waste Watch	cases		r screet	
ot elsewn deal inst	truments	and mater	rials,	Pumps, s	team	ng power pu	1	waternear	ma addalan	1S		weat Windo	her stri w shad	ps es and	fixtures.	
ical inst	ruments, c	organs	1	Regalia, emblen	and soci	ety badges	and 5	Steam packi Steel barrels	ng , drums, and	tanks,	ort-	Wood, Woode	preserv turned n good	ing and ca s. not	rved elsewhe	re speci-
and cake	, cottonse	oiano mater ed	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Rubber goods,	tires, tu not elsewh and harne	bes, and r ere specified	ubber 2	able Stencils and Stereotyping Stoves, gas a	brands	yping	5 4	fied.				

Same number reported for one or more other months.
 Same number reported throughout the year.

					PER	ONS E	NGAGE	D IN THE	INDUSTRY.			E EARN				
				ļ	Sala-	Clerk	s, etc.		Wage earne	ers.		16 and	over.	Und	ler 16.	e ge
	AND CHARLES	Num- ber of estab-		Pro- prie-	ried offi- cers,				Number, 1	5th day of—				-		Capital.
	INDUSTRY AND CITY.	lish- ments		tors and firm mem- bers.	super- in- tend- ents, and man- agers.	Male.	Fe- male.	Aver- age num- ber.	Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male.	Fe- male.	Capitai.
	CITIES OF 50,000 INHA	BITAL	NTS OR	MOR	E-AI	L INI	USTI	RIES CO	MBINED	AND SPECI	FIED I	NDUST:	RIES-	Conti	nued.	
1	CLEVELAND—Allindustries	2,946	191,349	1,970	7,515	15, 733	8,401	157,730	De 172,842	Ap 147,365	180,142	151,791	26,643	1,652	56	Dollars. 762, 585, 30

_	CITIES OF 50,000 INHA	BITA	NTS OR	MOR	E-AI	L INI	USTI	RIES CO)MB	INED .	AND	SPEC	IFIED I	NDUST	RIES-	Contin	nued.	
1	CLEVELAND—Allindustries	2,946	191,349	1,970	7,515	15,733	8,401	157,730	De	172,842	Ap	147,365	180,142	151,791	26,643	1,652	56	Dollars. 762, 585, 305
2	Artificial stone products Automobile bodies and parts	11 75	93 8,509	14 28	5 392	2 676	2 319	70 7,094	Au De	96 9,475		35 4,655	87 9,524	87 9,196	328			427, 261 32, 242, 794
4 5 6	Automobiles	10 71	13,316 575 389	63	275 26	686 22 27	576 25 14	11,779 439 329	De No	13, 189 448 420	Fe Fe	10,429	13,190 450	13,017 446	173 4			73,394,511 867,065
7 8		8 17	61 333	1 8 16	18 12 14	2	4 11	32 290	Jy De	46 325	Ja Ja	24 251	303 36 321	173 18 199	18 121	····i		1,713,437 203,634 587,919
9 10	Boxes, cigar	4 9	58 935	3 2	14 2 27	1 17	1 23	51 866	De No	65 1,047	Mh My	40 757	65 946		50 632			43,937 1,866,465
11 12	Boxes, wooden packing, except cigar boxes.	13 22	618 1.088	2 12	34	13 39	8 20	561		598		409	587		15	2		1,356,022
13 14	Brass and bronze products Bread and other bakery products Brooms, from broom corn	288 10 7 18	3,198 84	282 7 2	70 99 6	518 2	115 2 2 33	947 2, 184 67	De	1,126 2,387 8 69	Fe	702 1,948 64	1,062 2,408 69	1,047 1,779 58	621 11	<u>ż</u>	6	2,266,462 6,534,286 151,331
15 16	Butter Carriages and wagons, including re- pairs.	7 18	175 240	17 17	9 23	17 8	83 6	114 186	Jy 	131		98	112 196	73 195	39 1			842,977 699,581
17 18 19	Carriages and wagons	6 12 8	161 79	5 12	16	8 120	5 1	127 59	Oc.	64	Se	113 50	130 66	129 66	1			512,761 186,820
	Cars and general shop construction and repairs by steam-railroad companies.	1	4,463	•••••	216		46	4,081	De	4,225	Ap	3,866	4,225	4,197	28		•••••	8,222,056
20 21 22	Chemicals Cleansing and polishing preparations Clothing, men's	9 17 73	1,309 124 3,800	14 65	61 18 145	150 20 214	77 11 202	1,021 61 3,174	De Ja s	1,311 75	My Se	735 48	1,311 69 3,680	1,123 37 1,259	187 32 2,415	1.	4	7,406,647 252,405
23 24 25	Cleansing and polishing preparations. Clothing, men's. Regular factories. Contract work. Clothing, women's.	73 52 21 103	3,447 353	65 38 27 79	143 2	214	201 1	2,851 323	No De	3,384 354	Ja Ja	2,415 288	3,323 357	1,139 120	2,178 237	2	4	13,328,013 13,298,563 29,450
21 22 23 24 25 26 27 28	Regular factories Suits, skirts, and cloaks	80 44	6,938 6,755 4,536	59 33	292 291 87	553 553 403	388 387 305	5,626 5,465 3,608	Se		No	3,206	5,494 5,293 3,583	1,991 1,927 1,633	3,499 3,362 1,946	4.		16, 343, 308 16, 278, 402 12, 335, 260
29	Shirt waists and dresses, ex- cept house dresses. All other.	26 10	2,006	17	90	136 14	68 14	1,695 162	Au Au	1,918 192	De	1,513 128	1,525 185	278 16	1,247 169	-		3,503,838
30 31 32	cept house dresses. All other. Contract work. Coffee, roasting and grinding. Confectionery and ice cream	23 9 41	188 430 1,763	25	1 23 85	75 134	1 28 126	161 304	Jy Se	205 349	Ja Je	120 267	201 307	64 120	137 187			439,304 64,906 2,214,080
33 34	Copper tin, and sheet-iron work	5 100	307 766	109	8 64	5 19	2 26	1,395 287 548	De	1,959 325 643	Mh Ja	965 266 444	1,706 317 647	645 317 642	1,061	2		5,936,460 1,054,817 1,396,322
35 36	Electrical machinery, apparatus, and supplies. Electroplating	78 21 9	10, 261 151	15 18	416 15	1,035	682	8, 113 112	De De	9, 292 141	Fe Au	7,444 99	13,301 141	10,940 140	2,355	6		30,373,821 169,295
37 38 39	Engines, steam, gas, and water Flavoring extracts. Flour-mill and gristmill products	9 12 8	302 227 109	12 2	35 8 11	43 34 15	11 16 7	213 157	De Je	503 234	Je Oc	139 126	508 147	508 110	37			2,885,723 1,376,483 1,363,052
40 41	Food preparations, not elsewhere specified. Foundry and machine-shop products.	24	684	20	42	75	40	74 507	No Au	86 759	Jу Aр	60 384	88 466	294 294	160	7	5	1,363,052 3,292,473
42 43	Foundries	213 8 27	24, 163 336 8, 538	2	1,053 22 283	1,543 23 339	757 5 170	20,783 284 7,745	Ja De	320 9,613	Je Jy	247 6, 797	23,378 304 9,598	22,752 299 9,431	622 5 167	4.		70,529,977 1,079,443
44 45	Machine shops. Machine shop and foundry com-	166 12	12,126 3,163	72 2	589 159	918 263	500 82	10,047 2,657	No Oc	10,818 2,853	Ар Му	9,387 2,478	10,706 2,770	10, 255 2, 767	447 3	4		1,879,623 53,183,349 14,387,562
46 47 48	Furnishing goods, men's peckupan	24 4	201 160	27 4	12 12	5 25	12 6	145 113	No Oc 3	198 133	Fe My	109 99	186 133	58 12	128 121			465, 390 313, 392
49	Wood furniture, other than rat-	25 15	794 613	12 9	38 21	41 32	26 20	677 531	Se	574	Ĵа	438	722 566	674 523	47 42	i i.		1,594,850 1,214,225
50 51	Metal furniture and store and office fixtures. Gas and electric fixtures.	10	181 435	3 16	17 19	9 35	6 20	146	Au	ì	Ja T-	102	156	151	5.			380, 625
52 53	menting.	11	93	9	11	3	3	345 67	No De	412 74	Ja Fe	284 58	406 75	349 67	41 8	16	:::	1,568,541 161,168
54	Hats and caps, other than felt, straw, and wool. House furnishing goods, not else- where specified.	7	255 71	14 7	18	24	8	191	De No		Ја. Ја	161 27	234	136	98	-		602, 465
55	Iron and steel, steel works and roll-	16	10, 773	2	254	625	173	- 1		1	Oc.	2, 821	54 10, 513	10, 289	32 . 224 .			271, 339 60, 891, 582
56	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling	11	3,931		81	152	95	3,603	Ja	4, 137	Oc	2,790	3, 617	2, 939	666	12		14, 564, 378
57	mills. Iron and steel, forgings, not made in steel works or rolling mills.	13	2, 013	3	74	93	42	1,801	De	2, 145	Му	1,482	2, 145	2, 141	4			10, 727, 658
28	iron and steel, tempering and weld-	12 17	86 94	14	11	4		: H	No	4 4 4	Ap 8	41	74	74 :			44 5	184, 967
60 61 62	Jeweiry. Knit goods. Liquors, mait. Lithersphing	16 8 9	2,690 903	14 7	73 31	94 71 17 49	63 43	2,453 758	De No Jy	3,090 887	Se Ja De	1,803 642	3,002 650	82 523 639	2, 432	25	22	161, 514 8, 065, 090 9, 305, 482 2, 734, 681
63	Lithographing. Lumber, planing-mill products, not including planing mills connected with sawmills.	38	742 777	1 16	40 54	17 49	43 47 23	637	De Oc	752 748	Ja,	554 502	752 737	610 736	11 140 1	2		9,305,482 2,734,681 2,509,740
64 65	with sawmills. Machine tools. Marble and stone work.	27 26	4, 925	8	198	315	232	4, 172	De	4, 574	Jy	3, 853	4,573	4, 433	140		. FIT .	
66 67	Monuments and tombstones Other marble and stone work	14 12	4, 925 267 93 174	8 21 10 11	198 23 13 10	20 8 12	9 4 5	194 58 136	Oc Ja		la	38 111	198 65	197 64		i i		19, 545, 083 1, 003, 090 239, 670
11	except slate.	11			T	- 7				-21	~ U.	111	133	133	••••		••••	763, 420

except slate.

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

		productions	EXP	ENSES.									POWER.			
Sale	ries and w	ages.		Rent ar	nd taxes.	For ma	terials.				P	rimary			·····	i
J. 84			For		Taxes,	to the second		Value of	Value added by			Own	ed.			Ele tri hor
Officials,	Clerks, etc.	Wage earners.	contract	Rent of factory.	Federal.	Principal materials.	Fuel and rent of power.	products.	manufac- 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	genated esta list mer repo

CITIES OF 50,000 INHA BITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES. CONTINUED

_	0111	ES OF 30,0	OU INHA	BITANT	S OR MO	RE-ALL	INDUSTR	ies combi	NED AND	SPECIF	IED INI	JUSTR	IES-C	ontini	ied.		
Dollars. Do. 29, 896, 429 33, 8	75, 821	Dollars. 211, 206, 276	Dollars. 5, 814, 329	Dollars. 3, 528, 595	Dollars. 44, 283, 735	Dollars. 581, 705, 611	Dollars. 31,743,833	Dollars. 1,091,577,490	Dollars. 478, 128, 046	460, 108	174, 627	41, 841	18, 496	50	222, 094	67,33	6 1
1, 223, 458 53, 458 58, 057 48, 100 74, 263 2, 372 118, 617	3, 447 32, 069 64, 228 51, 157 55, 047 17, 956 9, 796 750 53, 227	107, 532 10, 134, 210 17, 912, 854 688, 580 329, 082 25, 505 343, 786 22, 854 673, 018	36, 821 200 15 42, 256 1, 219	22, 923 89, 961 5, 345 1, 740 19, 392 3, 735 87, 147	1, 226, 521 4, 282, 677 10, 505 163, 361 7, 846 5, 604 191 124, 747	221, 476 25, 345, 861 70, 893, 051 860, 381 1, 103, 338 221, 141 235, 264 49, 657 1, 427, 792	383, 767 596, 381 18, 126 24, 173 1, 384 6, 466 1, 836 21, 121	422, 808 44, 312, 932 110, 254, 504 2, 995, 156 1, 960, 536 479, 778 863, 746 107, 539 3, 135, 027	197, 575 18, 583, 304 38, 765, 072 1, 216, 649 833, 025 257, 253 622, 016 56, 046 1, 686, 114	130 22, 669 9, 581 492 318 19 222 54 785	40 415 1,300 20 225 		150		90 21, 933 8, 131 455 93 19 222 34 577	53 1,52	2 3 4 4 4 2 5 6 7 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8
	32, 240 70, 455	614, 954 1, 296, 966	1,089 1,998	22,986	01.389	1, 615, 642	i ·	2, 885, 137	1, 244, 950		600				1,236		. 11
350, 917 1, 1 10, 260 31, 369 75, 625	98, 288 15, 212 51, 552 17, 417	2, 697, 028 71, 018 93, 946 271, 175	5, 384 4, 234 6, 400	13, 227 174, 879 1, 800 12, 515 17, 075	91, 275 212, 223 6, 026 20, 565 21, 370	4, 329, 496 11, 555, 487 206, 549 2, 408, 016 344, 544	256, 512 1, 993 7, 199	6, 622, 233 19, 413, 046 352, 316 2, 744, 456 890, 945	2, 170, 705 7, 601, 047 143, 774 329, 241 536, 460	831 2,513 41 246 425	371		55 25		831 2,138 41 191 400		12 13 14 15 16
14,509 418,105 1		187, 443 83, 732 6, 144, 241	6, 400	10, 780 6, 295	18, 404 2, 966 16, 608	255, 314 89, 230 4, 547, 946	8, 037 1, 904 286, 074	636, 522 254, 423 11, 571, 425	373, 171 163, 289 6, 737, 405	321 104 6,040	2,440	3, 285	25		321 79 315		17 18 19
33, 848 8 866, 384 66 861, 084 66 5, 300 1, 77 1, 462, 830 1, 77 1, 039, 669 1, 3	39,758 39,245 65,670 64,270 1,400 78,966 78,446 44,507 06,240	1,494,842 68,505 3,451,808 3,123,849 327,959 6,336,698 6,161,761 4,481,354 1,539,945	726, 144 725, 676 468 532, 340 524, 345 394, 938 129, 407	17,200 31,286 169,630 159,836 9,794 309,293 301,715 199,322 88,548	420,757 2,379 504,100 503,824 276 512,262 511,803 400,537 102,913	3,272,251 298,579 9,572,073 9,571,592 17,890,120 17,888,453 12,876,950 4,373,040	55, 828 4, 049 74, 132 72, 082 48, 721	7,598,467 639,537 19,433,496 19,012,387 421,109 35,307,741 35,041,342 25,231,355 8,712,799	4,000,924 338,311 9,801,551 9,384,972 416,579 17,343,489 17,080,807 12,305,684 4,321,245	5,305 93 748 707 41 1,291 1,256 984 217	3,479 60 60 297 297 297 297		11 20		1,815 73 688 647 41 994 959 687 217		20 21 22 23 24 25 26 27 28
1,000 115,822 48 450,675 35 30,806 2 169,314 4 1,550,440 1,97	•	140, 462 174, 937 255, 387 1, 332, 583 337, 537 735, 880 10, 025, 713	7, 995 8, 000 6, 040 16, 514	13, 845 7, 578 9, 119 105, 551 1, 594 46, 237 148, 421	8, 353 459 33, 107 625, 322 15, 582 15, 630 3,777, 282	638, 463 1, 667 4, 752, 119 5, 290, 682 1, 595, 833 1, 256, 827 24, 606, 883	4, 847 2, 050 10, 705 118, 229 14, 081 12, 053 495, 516	1,097,188 266,399 6,171,429 11,375,042 2,159,088 2,781,552 52,324,151	453, 878 262, 682 1, 408, 605 5, 966, 131 548, 574 1, 512, 672 27, 221, 752	55 35 750 5,019 1,086 388 14,196	302 930 684	8	149		55 85 750 4,657 156 239 12,915	132	29 30 31 32 33 34
57,769 12 47,048 2	2,796 52,529 24,610 29,474 27,863	169, 146 335, 273 180, 217 101, 388 488, 420	4,000	15, 550 12, 432 23, 016 5, 058 22, 535	877 76, 596 83, 851 25, 640 82, 835	82, 238 411, 089 2, 591, 826 4, 008, 524 2, 428, 978	13, 164 15, 491 6, 715 18, 745 36, 080	371,790 1,059,614 3,450,976 4,382,725 4,098,830	276, 388 633, 034 852, 435 355, 456 1, 633, 772	389 1,155 148 1,633 958	15 1,050		240		362 715 133 583 645	396 120	38
126, 436 3 1,079, 374 74 2, 347, 612 1, 96	43.948	29, 256, 832 419, 335 11, 664, 669 13, 697, 823 3, 475, 005	282, 998 30, 567 252, 431	273, 336 10, 982 23, 872 222, 030 16, 452	5, 294, 943 84, 847 826, 698 3, 765, 905 617, 493	37, 761, 947 957, 227 9, 459, 145 21, 705, 574 5, 640, 001	2, 181, 313 23, 979 1, 090, 628 643, 541 423, 165	98, 971, 768 1, 945, 318 28, 175, 561 55, 177, 475 13, 673, 414	59, 028, 508 964, 112 17, 625, 788 32, 828, 360 7, 610, 248	41, 324 980 13, 893 20, 951 5, 500	5,645 405 310 3,705 1,225	939 52 887	630 1,364		32,364 245 12,901 14,995 4,223	7,655 1,340 4,509 1,806	42
104,661 8	23,991 77,086 15,929 87,301	185, 157 104, 958 942, 427 745, 828	2,394	30,642 8,108 46,812 34,361	6,556 11,240 59,605 54,285	459,617 587,954 1,358,825 1,054,572	1,807 2,190 26,161 16,032	940,193 1,023,353 3,208,301 2,529,170	478,769 433,209 1,823,315 1,458,566	30 5 1,125 699	525 475		nni		30 5 505 204	328 328	46 47 48 49
1	28,628 24,897	196,599 . 407,025	1,500	12,451 11,714	5,320 9,731	304,253 801,712	10,129 23,163	679,131	364,749 938,444	426 412	50 135		75		301 277	100	50 51
24,600 1	11,340	69, 233	_,000	7,476	8,163	250,246	2,659	470,624	217,719	52			4		48		52
	9,050	236, 474 36, 732	3,081	16,460 4,491	4,191 1,326	765,785 164,238	2,205 1,828	1,353,425 305,395	585,43 5 139,329	48 98			<u></u>		48 -98	•••••	53 54
		15,846,585	9,699		2,474,224	55,689,438		84,424,721	24, 282, 441	125,302	71,142	31,167			22,993	18,006	
493,629 47	3,235	4,619,069	2,037	87,392	1,097,448	7,228,775	343,819	17,264,129	9,691,535	5,758	2,771		25		2,962	2,826	56
279, 364 19	7,316	2,865,797		21,822	1,741,078	5,024,376	638,400	13,373,139	7,710,363	6,044	175				5,869	439	57
1	8,007	105,951		4,708	31,828	47,252	26,892	348,392	274,248	347			6		341	50	
151, 231 6	5,727 3,423 2,093 4,413 4,079	105,618 1,771,110 1,095,448 745,395 815,907	12,893 20,319 27,583	10,612 100,895 22,987 56,239	813 540, 681 774, 404 19, 232 79, 616	107,885 5,483,827 1,481,604 834,064 2,926,431	2,189 43,553 228,156 18,132 49,340	290,155 10,003,277 5,774,228 3,162,519 4,929,837	180,081 4,475,897 4,061,468 2,310,323 1,954,066	1,003 7,067 931 3,185	85 3,449 825	2,220	135 140		918 1,418 796 2,020	1,655 85	62
53,154 38 28,762 18	2,010 8,134 5,562 2,572	5,587,258 279,911 118,352 161,559	1 26,594 1,220 500 720	54,550 10,310 4,510 5,800	1,846,795 18,656 3,742 14,914	4,869,526 392,762 131,355 261,407	193,980 11,868 5,454 6,414	18,656,823 1,085,848 361,903 720,945 one or more o	13,593,317 681,218 228,094 453,124	7,778 997 373 624	1,100	135	159 .		6,528 563 214 449	27 27	64 65 66 67

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

								TABL	E 46	.—D1	TAI	ענינע.	STAT	PATETA	1 01	תנות	THI	USTRIES
-					PERSO	NS ENG	AGED	IN THE	INDUS	TRY.	,		WAG NEARI	E EARNI EST REPR	ERS DEC	. 15, TIVE 1	OR DAY.	
					Sala-	Clerk	s, etc.	1	Wa	e earne	rs.			16 and	over.	Und	er 16.	
		Num- ber of		Pro-	ried offi-		·		Nur	nber, 15	ith day	y of—					Ī	Conttol
	INDUSTRY AND CITY.	estab- lish- ments		and firm mem- bers.	cers, super- in- tend- ents, and man- agers.	Male.	Fe- male.	Aver- age num- ber.		imum onth.	Mini moi		Total.	Male.	Fe- male.	Male.	Fe- male.	Capital.
_	CITIES OF 50,000 INHA	DITA	איזים סדו	<u> </u>		T. TNT	יייצדו	RIES CO	OMBI	NED A	ND 8	SPECI	FIED I	NDUST	RIES-	Conti	ued.	<u>'</u>
	CITIES OF 30,000 INIA	BITA	ALS OR	MOR	E21	,L/ 1M1	/0511	LIED OC		11111111	1	1			·	1	1	n 1
1	CLEVELAND—Con. Mattresses and spring beds, not else-	6	155	. 3	12	4	12	124	Se	139	Ja	100	133	108	25	-	• • • • •	Dollars. 542,655
2	where specified. Millinery and lace goods, not elsewhere specified.	20	653	34	35	30	16	538	Mh	619		418	581	189		-		1,033,690
3 4	Mineral and soda waters	29 41	235 514	37 41	15 41	24 14	7 10		Je De	202 536	Fe Ja	106 268	160 539	158 536	3			583, 901 601, 730
5	paper patterns. Oil, mineral and composite	11 7	377 108	2 3	34 6	113	5 <u>4</u> 10		Je Fe²	185 76	Ja Oc	165 71	171 73	162 63	9			1,515,912 235,153
6 7 8	Optical goods	25 43	1,821 286	1 28 13	106 40	15 431 34	206 30	1, 077 154	Jу	1, 156	Mh	970	1,176 186	1,058 94 54	118 92			235, 153 8, 650, 478 1, 757, 659 1, 284, 367
9	cines.	22	159	ĺ	23	11	18	94	ll .		Jу	59	122		08			1,284,367
10	Patent and proprietary com- pounds, including compounds not elsewhere specified.	21	127	15	. 17	23	12	-60	Oc	65	Fe	49	64	40				473, 292
11 12 13	Perfumery and cosmetics	13 7	418 146	10 1 6	33 15	47	134 12 51	194 113	Se	280 123	Ja Ja	120 101	280 124	62 121	3		1	1,352,723 184,372 3,517,160
- 1	specined.	26	1,475		91 233	81 235					*****	•••••	1,460	1,372 2,117	88 615	20	1	7, 206, 158
14 15	Printing and publishing, book and job. Joh printing and book publish-	221 200	3,378 3,219	188 174	213	235	215 183	,		2,708	Ja	2, 285	2,753 2,679		606			6,905,465
16	Job printing and book publish- ing and printing. Book publishing without print-	12	78	9	10	28	31			2,100								142, 151
17 18	ing. Linotype work and typesetting. Printing and publishing, news- papers and periodicals.	9 82	81 2,534	5 31	10 157	3 569	1 350	62 1,427	De	74	Ja 3	52	74 1, 523	65 1,364	9 158	<u>i</u> .		158, 542 8, 434, 824
19	papers and periodicals. Printing and publishing	15	1,702	4	. 1	409	192	1,049	No	1,135	Ja	950	1,111	1,010				1
20	Printing and publishing Printing, publishing, and job printing.	25	689	10	48 67	125	109	378	De	1,135 400	Fe	362	412	354	57	1	•••••	5, 334, 308 2, 848, 128
21 22 23	printing. Publishing without printing Printing materials Saddlery and harness. Sausage, not made in slaughtering and meat-packing establishments. Shipbuilding, wooden, including	42 4 10	143 26 26	-17 8	42 7 2	35 5		12	Se 3	13 16		11 16	12 16	12 18	•••••			252,388 69,394 28,158
24	Sausage, not made in slaughtering and meat-packing establishments.	19	332	16	26	42	16	232	(4) De	246	Já	222	244	240	4			832,100
			8 226	4			*****	140	1		Oc 3	3	6	6				4,200
26 27 28	Signs and advertising novelties	16 21 22	2,918 974	15 15 3	20 94 54	41 344 21	10 92 26	140 2,373 870	Ja No	161 2,898 1,017	My	2,100 723	173 2,602 977	2,406 811	17 196 165	······		273,995 13,934,362 2,046,754
29	elsewhere specified. Steam fittings and steam and hot-	13	820	7	35	25	13	740		- 1 / d	Му	665	909	900	8			2,574,486
30	Steam fittings and steam and hot- water heating apparatus. Steel barrels, drums, and tanks, port- able.	4	846		26	16	7	297	De	451	Oc	170	451	451				1,120,763
31 32	Stereotyping and electrotyping Stoves and hot-air furnaces Stoves and ranges Hot-air furnaces Stoves, gas and oil	6 12	173 560	5 6	11 42	8 42	9 22	140 448		162	Ja	129	150 534	147 529	3			265,059 1,707,044
32 33 34	Stoves and ranges	6	435 125	1 5	31 11	8 42 24 18	15 7	364 84	De	416 117	Ap 8 Ap	331 64	417 117	412 117	5			1,486,161 220,883
35 36	Structural ironwork, not made in steel works or rolling mills.	15 26	4,012 1,976	13	77 68	246 229	173 85	3,516 1,581		4,473 1,860	My	$2,904 \\ 1,438$	4,495 1,656	3,980 1,656	515			14,844,496 7,326,313
37 38 39	Surgical appliances. Tobacco, cigars and cigarrettes. Tools, not elsewhere specified.	5 158	14 1,268	6 159	31	24	2 8	6 1.046	Oc Mh	8 1,102	Je 3 Se	5 845	9 1,082	7 353	720		β	10,545 1,764,767
40	Machinists' tools	47 33	4,050 3,448	25 21	111 76	272 243 29	255 225	3,387 2,883	Ja	3,567	Je	2,519	3,648 3,132	$3,381 \\ 2,874$	250 241	17 17		1,704,767 13,990,619 12,539,026 1,451,593 256,806 6,421,729 41,913 57,818 8,401,071
41 42 43	All other Trunks and valises Varnishes	14 9 10	602 137 839	4 8 2	35 13 57	29 8 185	30 7 117	101	Mh Je De	638 117	Ja	455 73	516 101	507 92	9			1,451,593 256,806
44 45	Window and door screens	4 6	38 23	8 7	3	3	1		Je	533 37	Ja Je 3	450 11 8	533 20 5	463 19	69 1	1	::/:::	6,421,729 41,913
46 47	Wirework, not elsewhere specified All other industries *	16 391	1,734 44,065	198	50 1,501	167 4,802	36 2,013	1,477		1,610		1,356	1,595 38,469	1,374 31,058	221 5,880	1,523	8	8,401,071 226,983,468
	*All other industries embrace—	Boots	and shoe	s, noti	neludi	ig rubh	er	Cloth s	none	ng and	refinie	hing		1				specified 3
Air	planes, seaplanes, and airships, and arts. 1 icultural implements 1 minum manufactures. 6	boot Brick	ts and she and terra	es	produc	ts	. 4	Cloth, s Clothin Coal-ta						Fertiliz	ers			
ATT	IDMS/IDOWATE A.C	Butto	ng and poutting a	reservi	nor flek		7 4	Coffins, goods Coke, n	buria	l cases,	and u	nderta.	kers' 3	Flags an Foundr	nd banı y suppl	iers		2 7
Art	ificial limbs	Card o	cutting as	ıd desi	gning.		. 1	Cordial	ana c sand	uus, mo flavorir	m's o sim	ne	1	Galvani	ressed.		 	
Ast U Rel	pestos products, textile-mill prod- cts, other than steam packing. 1 bbitt metal and solder. 2 2s, other than paper, not including	Carrie	ts, rag ige and w iges and s	ieas, ci	maren	'S	1	Crueth	goods	ee bone	0 7040		<u>I</u>	Gas mac	chinesa	nd gas	and wa	termeters 6
Bay	gs, other than paper, not including ags made in textile mills.	Carsa	nd genera irs by e	l shop lectric-	constri railroa	iction a d comp	nd a-							Gold an	nd silve ot from	r, redi	icing a	nd refin-
Dill	ss, paper, exclusive of those made paper mills 1 skets, and rattan and willow	Cars,	electric-r rations of	ailroad	. not	includi	1	Dental Druggis Dyeing					clu- 1	Grease bricat	and tal	low, n	ot incl	termeters 6 2 2 and refin- uding lu-
**	are	Cash	registers les	and	calcula	ting n	18-	Emery	and o	ther a b	rasive	wheels	i	Hand st	amps.			
Bei	ls 1 ting and hose, other than leather nd rubber	Chees	e ing gum				0	Ename Engray Engray	ing. s	reel and	(PANN)	ar nlate	, in-	Hardwa Hats, fu	re, sad	llery.		11
Bu	nd rubber	Check	nate and	cocoa p	roduci	s	2	Engrav	ing pin ring, v	ve print	ing		5	Hats, st Hats, w	raw. ool-felt			3 4 6 11 1 1 1
	¹ Includes water wheels and turbines ² Chiefly electric motors operated by r	(irrespo	ective of	owners	hip of	water s	upply), and w	ater n	otors (operat	ed by	water (ro	ice, mai m city m	nufactu mains)	red		4
	and and a special state of the		ու հագո	uscu) (unent	, other	power	ncinge	ı (chi	efiy shà	ft-belt	or trai	smitted	power fr	om nei	ghbori	ng pow	er plants).

mascu) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

			EXPI	enses.									POWER.			
Sal	aries and w	ages.	190,0	Rent ar	nd taxes.	For mat	erials,				P	rimary	horsep o	wer.		Elec-
Officials.	Clerks,	Wage earners.	For contract work,	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials,	Fuel and rent of power.	Value of products.	Value added by manufac- 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	tric horse- power gener- ated in estab- lish- ments report- ing.
	CITI	ES OF 50,	OOO INHA	BITANT	S OR MO	RE-ALL	INDUSTR	IES COMB	INED AND	SPECIE	IED IN	DUST	RIES-	Contin	ued.	
Dollars.	Dollars. 18,972	Dollars, 148,128	Dollars.	Dollars. 13,161	Dollars. 24,610	Dollars, 495,096	Dollars.	Dollars.	Dollars.	0.00				:	-	
44,182 126,851	70,899	539,557	260	30,943	74,295	1,162,633	7,358 15,097	854,205 2,353,760	351,751 1,176,030	262 357	85		******		262 272	70
51,660 115,815	29,992 20,584	199,296 763,618	3,294	14,477 25,028	60,061 10,352	520,526 211,444	7,575 11,693	1,096,047 1,534,376	567,946 1,311,239	208 416			14		208 402	21
141,155 27,976 585,273 137,438 71,012	171,056 28 927	203,195 96,397 1,087,288 156,995		10,320 19,914 23,750 24,056	71,323 12,248 444,107 250,832	4,317,053 222,405 10,632,268 1,130,151	12,792 3,269 112,373	5,906,753 541,687 17,436,225	1,576,908 316,013 6,691,584 1,796,096	251 46 4,323 189	74 480				177 46 3,803 189	42
71,012 66,426	35,420 59,679	97,696 59,299		10,607 13,449	245, 751 5, 081	768,530 361,621	4,148 6,983	2,937,378 2,014,084 923,294	1,241,406 554,690	77 112				,.	77 112	
106,771 55,346 333,868	179, 250 26, 331 286, 154	156,092 208,284 1,392,992	16,449 21,027	17,509 15,673 29,895	165,900 4,022 59,324	1,026,515 72,086 2,241,029	4,432 4,202 85,662	3,229,193 510,858 5,393,331	2,198,246 434,570 3,063,640	88 61 1,518	45 85		156		43 61 1,283	
818,235	533,607	3,277,040	395,275	223,175	252,852	4,637,077	81,395	13,382,254	8,663,782	2,548	ļ		60		2,413	37
755,113 38,662	489,552 36,985	3,175,633	129,583 261,448	212,472 6,423	246, 272 4, 784	4,570,764 51,304	79,315	12,602,751 527,475	7,952,672 476,171	2,522	75		60)	2,387	37
24,460 598,978	7.070	101,407 2,308,522	4,244	4,280 120,934	1,796 694,486	15,009 4,836,633	2,080 69,461	252,028 15,570,029	231,939 10,663,935	26 943	175	,	30		26 738	75
297,389 203,758	836,926	1,776,407 532,115	1,850	81,095 19,904	551,690 131,376	4,034,663 695,885	50,453	11,419,323 3,108,831	7,334,207 2,393,938	197 746		,	ļ		197 541	75
97,836 17,868 4,450 83,267		15, 234 21, 653 361, 308	438,167 1,592	19,935 5,780 2,480 2,960	11,420 3,646 711 66,001	106,085 27,701 38,116 3,646,845	1, 154 324 30, 840	1,041,875 133,153 92,466 4,667,136	935, 790 104, 298 54, 026 989, 451	19 6 1,050	155	5	45		19 6 \$50	
		2,464		120	15	5, 590	94	15,929	10, 245	10				j	5	
59, 476 388, 932 214, 440	77, 050 632, 362 65, 514	203,634 3,225,099 1,083,764	8,316 13,322 4,183	34,753 11,424 30,724	16,638 438,074 87,885	274, 821 63, 991, 190 1, 435, 201	1, 809 409, 495 74, 781	778, 130 71, 061, 098 3, 382, 626	501,500 6,660,413 1,872,644	36 6,914 1,015	3,220 320	8	70 110		36 3,624 585	1, 118 25
216, 923		957,738	9,603	12,927	270, 590 122, 531	814,906		2,866,412 2,446,421	1, 944, 238 875, 761	855 337	305	5	50)	550 287	
99, 945 33, 140	17, 239	281, 671 177, 087	15, 225	7, 840 12, 129 13, 885		1,564,156 125,115	1	601 551	466, 174	251 715	50X	5		5	251 175	218
143, 535 111, 233 32, 302 426, 150 343, 059	52, 221 32, 289 746, 851	518, 757 420, 916 97, 841 4, 725, 588 2, 080, 776		13,500 13,500 13,502 14,729	56, 921 1, 400	125, 115 1, 242, 079 832, 292 409, 787 8, 661, 692 7, 487, 585	31, 569 25, 200 6, 369 179, 870 86, 677	19, 489, 305	201, 610 10, 647, 743	550 165 3,099	372 122 710	5	3	3	135 40 2,356 5,454	218 226
96, 894 399, 787 289, 300	1,664 58,226 666,158 569,866	889,069 4 619 356	1,164 3,603	1,705 52,975 42,200 25,870	45 463, 102 1, 998, 190 1, 943, 702	6,560 1,647,001 5,811,219 4,510,287	11,069 189,828	3,752,964 17,602,520 15,605,948	17,610 2,094,894 11,601,473 10,939,089 662,384 316,500	li 71	2.000	0	2: 1:	21	71	1,733 1,733
110, 487 56, 071 277, 757	96, 292	772, 010 133, 868	258	25, 870 16, 330 13, 177 2, 300	1, 998, 190 1, 943, 702 54, 488 3, 596 152, 712	1,300,932 267,204 5,828,825	33, 256 1, 768 55, 148	1,996,572 585,373 9,050,542	662,384 316,401 3,166,569	5,815 680 25 951	41	1		0	, յ այս	1 0(9)
5,825 9,776 295,311	2, 202 6, 027 302, 874	5,408	5, 928 2, 810, 472	1,110 2,520 21,540	318 238 333 426	31,932 47,378	860 170 98, 262 18, 805, 289	93, 179 75, 718 7, 071, 352	3, 166, 569 60, 387 28, 170 3, 595, 038 103, 284, 884	76 2 2,868 137,644		5	12	ó	1,073	1,391
ink, writing instrumentific	ng	ional and furnaces, on pipe ails and spi ails and spi at pipe sheet elsewhere irried, and cture frame unframed s, and part	2 scien- 7 5 1 kkes 2 1 2 1 4 4 2 speci- 2 fin- 2 1, not 1	not ols Musical Musical Needles Oil, Jins Oleoman Paper a: clusiv Paper g Paving Penuts: and st Pens, fo Petroleu Phonogr Photogr Pickles, Printin Pumps, Refriger	sewhere sp instrumen enistrumen pins, and eed grarine nd wood p ely grading, elling untain, an an, refinin aphis and preserves, and publ not included.	nd other adlectified	terials, 4	Rubbertin not elsew Rules, ivor Sales. Salt. Saws. Screws, ma Sewing ma Sewing ma Shipbuildi repair w Shirts. Show cases Smelting, l Smelting a ore. Soap.	aterials	ttachmer w vessel	7000IS, 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Steni Tin I Tinwa Toba Smarth Type Type Type Umb Wall Smarth Smarth Wall Smarth Smarth Smarth Smarth Wall Smarth Wall Smarth Sm	cils and blate and care, no ceco, chuff and gas a foundi ewriters relias a paper tills plastet g d, turned l shodd len good sted good good good good good good good go	brand: d ternet t elsew ewing mes ng and su nd can , not r and schines ed and y ods	s. pplate here spec and sino hipplies, r es made composi and clot	ified and king, and boon in paper ion floorness wring

Same number reported for one or more other months.
 Same number reported throughout the year.

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

								TABLE	46	-DE	TAIL	ED	STATE	MENT	· OF .	ALL	INDU	JSTRIEL
					PERSO!	NS ENG	AGED I	n the 11	ndustri	Υ.				E EARNI ST REPR				
		Num-			Sala- ried	Clerks	, etc.		Wage 6	sarner	s.			16 and	over.	Und	er 16.	
	INDUSTRY AND CITY.	ber of estab- lish-	m		offi- cers, super-				Numb	er, 15t	th day	-10						Capital.
		ments	Total.	and firm mem- bers.	in- tend- ents, and man- agers.	Male.	Fe- male.	Aver- age num- ber.	Maxim mont		Minim mon		Total.	Male.	Fe- male.	Male.	Fe- male.	
	CITIES OF 50,000 INHA	BITA	NTS OR	MOF	E-A	LL IN	DUSTI	RIES CO	OMBIN	ED A	ND S	PECI	FIED I	TRUGE	RIES.	Conti	ued.	
1	COLUMBUS—All industries		32,560		1,278		1,217	26,751	No 28			5,052	28,960	23,598		44	52	Dollars. 99,383,222
2 3 4 5	Automobile bodies and parts Automobile repairing Awnings, tents, and sails Boots and shoes, not including rub-	13 23 3 9	968 110 31 2,059	29 1 1		35 5 96		820 74 21 1,872	Jy	993 79 32 1,973	Ja. 3	510 70 14 1,799	1,007 78 18 1,961	634 78 13 1,057	373 5 904			1,762,264 134,660 57,598 7,046,498
6 7 8	Automotic repairing. A wnings, tents, and sails. Boots and shoes, not including rubber boots and shoes. Bread and other bakery products. Brooms, from broom corn. Cars and general shop construction and repairs by steam-railroad companies.	64 6 5	898 21 5,411	64 8		121 2 492	1	617 10 4,856	Do No 2 De 2	646 11 5, 187	Ja3	575 8 4,435	647 11 5,187	ేదేక 10 5, 144	183 43	3	2 	1,549,898 15,120 4,316,648
9 10 11 12 13	Clothing, men's. Confectionery and ice cream. Confectionery. Ice cream. Conner tin and sheet-from work	19 13 6	47 656 272 384 270	15 11 4 8	39 18 21	18 18	20	312	Je De	284 376 283	Se	25 145 272 170	45 562 266 296 283	9 357 81 276 279	4			31, 300 1, 379, 078 576, 027 803, 051 1, 098, 352
15 16 17 18	Electrical machinery, apparatus, and supplies. Electroplating. Fertilizers. Flavoring extracts. Food preparations, not elsewhere	3 3 4 8	26 282 10 35	3 2 2 9	10 2		<u>-</u> 5	21 252 4	Se	21 566 6	Mh (1) Ma Ja 3 De	51 21 174 3 14	70 21 191 3 25	49 21 191 1 14	2			162,353 11,468 1,954,690 8,350 88,623
19 20 21 22 23	specified. Foundry and machine-shop products. Boiler shops. Foundries. Machine shops. Lumber, planing mill products, not including planing mills connected	49 4 9 36	4, 555 45 432 4, 078 294	37 3 12 22 10	6 16 103	7	183		De Ja	476 3,761	Ap	28 342 3,069 161	4,122 34 473 3,615 264	4, 018 34 473 3, 511 262	103			17, 098, 828 86, 449 565, 924 16, 446, 455 1, 265, 625
24	Marble and stone work, except	6	40	4				29	Ap		Ma	20	32	32				128,421
25 26	Models and patterns, not including paper patterns. Patent: medicines, and, compounds.	9 28	80 350	12 20		93	1 44	44 157	Je No	51 176	Ap Ja²	36 143	49 172	49 58	114			65,043 810,098
28	and druggists' preparations, includ- ing perfumery and cosmetics. Printing and publishing, book and job. Printing and publishing, newspapers and periodicals.	57 43	743 885	47 11	60 54	21 330	33 84	582 406	De Mh		Ја Ју ^з	555 403	610 405	408 358	200 32			1,378,458 3,381,213
29 30 31	Shirts. Slaughtering and meat packing Stoves and hot-air furnaces, including as and oil stoves.	5 7 12	40 318 826	7 5 12	20 17	45 17	1 7 12	29 241 268	Ap Fe No	260 326	Au Au Ja	26 229 219	29 244 323	3 240 314	26 4 9			33, 150 1, 122, 645 796, 839
32 33	Trunks and valises All other industries*	275	14,004	11 149	698	977	552	11,628	Je	25	Ју ———		12,581	9, 523	2,988	20	50	53,709,330
Agri Arti Arti Bag Bas Belt Bill Boo Boo Box Box Box Box	*All other industries embrace— cultural implements	Card c Carpe Carria only Cars and pan. Cars, oper Chem Cleans Clothi Coal-t Coffee Coffine Coope Corpe Corpe Corpe	r utting a test, rag	wagon eral sh y elect ilroad railroad aratior en's cts , and g cases, s sheads avoring	gning. ns, replaying to property of complex and in the structure of the s	pair wonstruction oad conincludicanies.	1 8 ork 2 on 3 ing 1 1 1 5 1 4 4 rs' 5 2 2	cluding cludin	ng plate tinguish nd bann ill and ds ds soo ure ting t electri uminati achines cutting, ing and mit and mit and man	print ners, coners, coners, coners, gristrations, mand coners, stain and stain, stain,	hemics nill pr en's, n ures d heat gas ning, leathel	oducts eckwee	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hand s Hard w Hats as and v House- Joe, ma Instrum tific. Iron an iron an and mills. Iron an Iron an Iron an Iron an	tamps are de caps, vool urnishi rs nufactu nents, d steel, d steel, d steel d steel d steel, workso	other ng go red profess blast steel , bolts not cast-it doors forgin r rollir	than f sional a furnace works a s, nuts, made i on pipe and shi ags, not ng mills	1 2 2
1 2 3	DAYTON—All industries Automobile repairing	571 18	36, 495 155 26	394 10 6	733	2,601	1,633		De 3	5,110 171 28	Fe	88 11	35,376 144 18	29,656 144 8		42	8	121, 658, 316 202, 801 43, 671
7	Boxes, set-up paper boxes and cartons Brass, bronze, and copper products	9 57 3	26 479 245 782 19	67 3	12 11 16 1	19 10 75 1	44	439 216 530 14	Ap De No My	471 242 608 17	Ja Fe Ja No ²	368 162 367 12	436 244 592 12	119 230 379 12	317 14 212	·····i		1,062,773 510,502 2,016,853 19,652
9	Cars and general shop construction and repairs by electric-railroad companies. Clothing, men's.	7	56 356	2	8	1 16		55 283	De	335	Ap	244		49	•			97,497 542,719

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

			EXPI	enses.			11 1	-1	- N				POWER.			
Sala	ries and w	ages.		Rent ar	d taxes.	For mat	terials.	area en t			Pı	imary l	orsep o	wer.		Elec-
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value f products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Own Steam tur- bines.	Internal-combustion engines.	Wa- ter pow- er.1	Rent- ed. ²	tric horse- power gener- ated in estab- lish- ments report- ing.
!	CITI	ES OF 50,0	OO INHA	BITANI	s or mo	RE-ALL	INDUSTR	IES COMBI	NED AND	SPECIF	IED IN	DUSTI	RIES-	Contin	ued.	
Dollars. ,686,532	Dollars. 6,315,585	Dollars. 30,978,549	Dollars. 290,773	Dollars. 529,088	Dollars. 5,764,347	Dollars. 108,739,276	Dollars. 3,979,963	Dollars. 184,021,849	Dollars. 71,302,610	66,292	25,906	565	4,488		85, 838	7,289
161,755 7,100 6,021 227,771	118,617 3,164 10,354 534,481	685,645 95,112 23,012 1,700,171	1,491	24,830 16,335 2,040 26,217	165,706 3,612 3,027 317,736	2,121,974 132,874 61,245 6,103,637	7,176 864	3,668,580 326,513 145,335 10,198,135	1,526,179 186,463 83,226 4,046,571	821 148 17 1,264			53 33		768 115 17 1,264	******
125,136 75,278	255,320 2,212 911,571	599,599 10,327 5,873,499	20,285	32,829 660	187,748 289	3,021,593 37,731 7,991,683	70,030 331 361,698	5,203,881 67,037 15,213,729	2,112,258 28,975 6,860,348	1,057 22 7,826	140 1,778		40 19 1,150		877 3 4,398	3,446
102,436 50,940 51,496 39,383 18,647	8,194 116,569 54,281 62,288 49,091 15,311	35,232 483,422 141,698 341,724 223,214 57,557	1,630	1,650 17,946 12,130 5,816 6,119 1,530	77,018 45,438 31,580 12,757 6,279	88,710 1,302,162 629,319 672,843 555,123 166,706	6,957 59,173 12,330	160,900 2,575,127 1,112,374 1,462,753 848,260 338,575		1,837 186 1,651 463 44	390 390		580 580 36		6 867 186 681 427 44	114 114
3,640 54,159 3,120 3,120	540 37,910 600 720	22,475 301,091 4,829 18,152		1,620 1,320 3,975	124 87,543 72 747	11,872 1,573,851 15,731 188,913	29,558 22 1,572	55,604 2,832,917 42,532 242,672	42,832 1,229,513 26,779 52,187	93 1,342 6 53	345		93		997 1 43	
677,445 11,480 49,348 616,617 66,972	1,261,506 3,260 15,900 1,242,346 37,921	5,219,686 34,304 581,846 4,603,530 281,382	4,732 4,237 495	20,313 660 1,500 18,153 10,310	1,346,442 2,219 109,150 1,235,073 21,438	7,898,582 53,017 437,563 7,408,002 974,960	41,928 434,362	18,632,901 143,271 1,487,967 17,001,663 1,691,612	10,256,101 88,326 1,008,476 9,159,299 698,060	6,215 105 290 5,820 1,709	1,595 40 1,555 340	55			3,901 65 290 3,546 1,279	709
4,560 5,986 101,464	4,980 800 198,670	45,910 50,531 109,026	1,583	1,941 2,910 14,010	1,225 2,500 89,105	62, 674 20, 597 590, 589	1,142	162,732 133,664 1,693,121	98, 549 111, 925 1,094, 504	50 57 172					44 57 170	
144, 595 154, 374	57,283 383,973	586,605 437,823	2,916 228,792	45,182 28,940	31,693 181,990	833,526 1,246,748		2, 185, 510 4, 094, 919	1,327,446 2,829,075	630 567				 3	576 549	1
2,080 38,156 44,807 4,160	4,092 60,884 82,345 2,000	21,160 240,774 330,345 18,839		3,044 2,780 6,460 8,300	1,152 33,130 18,471	60,654 5,819,002 598,387 18,368	11,661	117,092 6,516,428 1,133,658 84,064	55,974 659,385 523,610 64,692	1	916)	32		10 200 348 34	
ather go fied	tomobile oods, not halt hing ass and pic g greases d timber p and sprin ecified lace goods d carbonat amed and e specified paste, and where specified historyments	elsewhere s ture frames products g beds, not , not elsev ed waters unframed other adhed and mate	1	Musical i Oil, com Oil-loth, Oleomar Optical Paints. Paper gc Paving J Petroleu Phonogr Photog	posite enameled garine garine goods not el naterials m, refining aphic mategraving rs' supplied (and public not includ steam and ators and socie and socie and socie and socie enameled and socie and socie enameled graving rot includ steam and socie and socie enameled graving rot socie enameled graving rot includ steam and socie enameled graving rot soci en	67,241,384 ts, planos sewhere speces graphophone vitals es, not els shing, musi ing power pr other powe ty badges a	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Saddlery at Sales and v Sausage, no meat-pack Saws Scales and i Show cases Signs, elect Smelting a ore Stationery fied Statuary at Steam fitti water he Stereotypit Structural steel wor	d harness aults. t made in sia cing establis balances. cic and other and refining, goods, not el art goods, not el art goods and string apparatg and electring promork, ks or rolling pliances.	ughtering nments not from sewhere s am and tus. otyping not mad	3 and 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tobac Tools Toys Type Varni Wall ing Wash ers. Wind Stri Wind Wire Wood Wood Wood	cco, cigs, not ell and gar foundi: shes plaster ing ma ow and ps ow sha work, n l, turne len goo	arssewherenesng	18,338 a specific composit and clott reems an i fixtures where special curved.	d
1, 996, 567 27, 630	5, 304, 287 13, 818 1, 709	39, 680, 372	236, 569	10, 137 1, 236	6, 398, 815 8, 228 483		2, 267, 085 7, 536 680	617 463	294 110	172	16, 59		84	8 38	32, 871	11.
59, 496 80, 731 76, 839 1, 347 2, 979	156, 801 867	53, 938		16, 960 1, 886	3,889	2, 855, 319 20, 660	1	1, 271, 610 4, 522, 347 49, 656	48, 418	318 912 43			2	4	912 19 104	0
57, 4 38	67, 668	104 405		10, 224	30, 812	811, 310 me number me number	3,986	1, 787, 391	972, 095		1				-	

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

=					PERSO:	ns eng.	AGED I	N THE I	DUSTR	ıy.			WAGI NEARE	E EARNE ST REPR	ERS DEC). 15, TIVE I	OR DAY.	
					Sala-	Clerks	, etc.		Wage	earne	rs.			16 and	over.	Und	er 16.	.:
		Num- ber of estab-		Pro- prie-	ried offi- cers,				Numl	b er, 15	th day of-	-		+ (N				Capital.
		lish- ments	Total.	tors and firm mem- bers.	super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average num- ber.	Maxin mon		Minimun month.	n	otal.	Male.	Fe- male.	Male.	Fe- male.	
	CITIES OF 50,000 INHA	BITA	NTS OR	мот	E-A	LL INI	OUSTI	RIES CO	MBIN	VED .	AND SPI	ECIFI	ED II	Taudi	RIES	-Conti	nued.	
1 2 3 4 5 6 7 8	DAYTON—Continued. Confectionery and ice cream. Confectionery. Ice cream. Copper, tin, and sheet-iron work. Foundry and machine-shop products Furniture. Ice, manufactured Iron and steel, tempering and weld- ing.	12 8 6 60 7 4 5	4,814 483 78 29	14 8 8 8 8 8 8	91 91 12 43	35 4 1 282 20 3	5 112 16 3 1	83 38 4,297 432 66 15	Oc Jy Ja De De Jy Ma	53 4, 884 488 85 20	Je De Ap Fe 3, Ja Ja	216 122 45 25 864 354 50 9	323 247 76 43 4,894 488 68 18	135 84 51 43 4,798 429 68 18	163 10 95 56	15		Dollars. 985, 591 557, 235 428, 356 93, 581 16, 160, 549 1, 087, 347 722, 128 42, 890
9 10 11 12	Lumber, planing-mill products, not including planing mills connected with sawmills. Marble and stone work, except slate Mattresses and spring beds, not elsewhere specified. Mineral and carbonated waters	7 6 3	70 21	15	3	2	1 1	52 15 24	De z No	394 61 20	Ma Ja	274 41 12 13	385 54 16 27	383 54 14				1,254,925 153,739 40,480 162,628
13 14 15	Models and patterns, not including paper patterns. Printing and publishing, book and job. Printing and publishing, newspapers and periodicals.	7 12 30 20	84 340 792	16 22 11	18	16	18 104	65 263 500	De De De	98 285 527	Ja Fe Je ³	34 249 470	99 288 527	99 188 440	98	1	2	86,322 558,161 2,831,498
16 17 18	Pumps, power, other than steam Slaughtering and meat packing Stationery goods, not elsewhere specified.		411 364 548	10	1		3 56	398	Ja No	467 301 434	Oc Ja	150 282 356	467 294 437	459 279 305	182		1 4 0	1,303,935 1,939,261 2,045,416
19 20 21 22 23	Tobacco, cigars. Tools, not elsewhere specified. Toys and games. Varnishes. All other industries *	29 36 8 4 180	1,164 1,336 242 77 22,735	20	11	40	35 3	1,200 220 49	De Oe Oc	1,198 1,475 337 58	Fe Ja	027 900 34 42	1,171 1,473 305 54 22,108	104 1,404 134 54 19,224	58 164	11	i 7	1,662,534 2,048,802 368,683 637,719 82,975,559
Ag Al Ar Au Ba Bla Bo Bo Bo	*All other industries embrace— planes, seaplanes, and airships, ind parts. 2 ricultural implements. 1 uninum ware. 1 ilficial stone products. 3 tomobile bodies and parts. 12 gs, other than paper, not including ags made in textile mills. 1 akets, and rattan and willow ware. 2 cking, stains, and dressings. 2 okbinding and blank-book making 1 xes, cigar 1 xes, wooden packing, except cigar oxes. 1	Carri Cars and pan Cash Chem Chew Clean tior	, building, from age and and gen repairs iesregisters icalsing gum sing ans sing, won , roasting, buriears' good	broom wagon eral sl by stee and pa	n corn. materi nop con am-rail arts	als nstructi road con	2 on m. 3 1 1 a. 2	tors. Denta Drugg Electri Supp Electry Emery Engine Engra inclu Envele Fertili Files	goods ists' pr cal ma lies oplatin and o es, stea ving, s ding p	eparat chiner g ther a m, gas teel a late pr	es, cream ions y, apparai brasive wl , and wate nd coppe inting chemical	tus, an heels er plat	1 2 2 1d 9 1 3 1	Flavor Flour- Food speci Fur go Gas man Glass, ment Gloves cludi Hand s Hardw Instru	ring ext mill and prepara filed ods achines cutting ting and n ing glov stamps are. ments,	racts l gristrations, ations, s, stain nittens es mad	nill prod not e ning, an iong, an ionglan	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 2 3 4 5 6 7	Agricultural implements	6 4 8 14 3	20 31 138		1 80 5 1 3	234	1,351	1,575 15 20	Mh Se Se My *	13, 153 1, 716 21 21 104 60	Jy 1, Ja ² Mh Fe	549 443 10 19 97 4 32	13,143 1,654 15 20 104 4 58	4	29	,		54, 582, 930 10, 823, 782 19, 100 18, 830 274, 951 11, 620 128, 792
8 9 10 11 12 13 14	panies. Copper, tin, and sheet-fron work. Engines, steam, gas, and water. Foundry and machine-shop products. Models and patterns, not including paper patterns. Musical instruments, piano materials. Fatent medicines and compounds Printing and publishing, book and job.	3 5 16	1,548 28 542 26	7 3 1 3	1 1, 5 6 8	5 54 5 8 1	43	853 1,337 19 508	De De De De No s		Ap Ap 1, Mh I	19 722 260 16 391 10 167	33 969 1,460 22 587 15 195	1,447 22 584	13 13 14 16	1		52,128 3,673,757 4,334,505 14,931 1,993,632 145,217 459,232
15 16	Tobacco, cigars	97	9,87		8 7 32	740	1,198	20 7,548	De	22	Mh	18	22 7,985	6,097			6	21,287 32,611,166
An Be Be	*All other industries embrace— tromobile bodies and parts	Cars and par Cloth Coffe Coffin ers Cond	ages and and gen and gen are repairs nies	eral st by ster 1's 1's 1'g and a 1 cases ilk	op con am-rail grindin s, and	istructi road co g underta	on m- 2 2 k- 3	plies Electri supp Emery Fancy Flour- Furnit and	calma lies and or article mill an ure, w willow	chiner ther al s, met d gris ood, c	oultrymen y,appara prasive whal novelti tmill prod ther than	tus, an neels ies nets. n ratta	1 nd 4 1 2 3 an 1	Hand lee, market tific. Iron an mills	stamps anufact ments, ad steel, s	ured profess steel v	sional a vorksar	not in- 1 textile 1 textile 2 nd scien- 2 drolling 1 2

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

	: 117 11 11 11 11 11 11 11 11 11 11 11 11		EXPI	enses.					es e				POWER.			
Sala	ries and w	ages.		Rent ar	id taxes.	For mat	erials.	, ma^	ar s		Pi	imary l	horsepo	wer.		Elec- tric
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Own Steam tur- bines.	Internal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	horse- power gener- ated in estab- lish- ments report- ing.
	CITIE	S OF 50,0	AHNI 00	BITANT	s or Mo	RE-ALL	INDUSTI	RIES COMB	INED AN	SPECI	FIED I	NDUS'	TRIES	-Conti	nued.	
Dollars. 39, 533 23, 055 16, 478 4, 680 769, 922 81, 770 14, 900 6, 607	526, 600 40, 795 6, 671 1, 469	Dollars. 217, 990 115, 382 102, 608 48, 332 5, 753, 976 397, 552 78, 642 23, 645	Dollars. 500 500 32, 181 25, 000	13, 215 7, 623 660 42, 199 14, 402 2, 473	Dollars. 26, 159 20, 878 5, 281 1, 254 517, 560 22, 614 11, 265 401 71, 939	Dollars. 896, 080 508, 304 387, 776 98, 609 5, 221, 522 550, 018 26, 586 8, 137	Dollars. 23, 611' 6, 566 17, 045 2, 487 530, 417: 11, 946 72, 559 3, 843 40, 197	666, 200 152, 340 15, 782, 525	Dollars. 553, 632 292, 253 261, 379 51, 244 10, 030, 586 927, 017 211, 231 47, 361	10, 400 754 1, 296 27	3, 895 350 1, 200				590 259 331 6, 240 404 96 27	6, 491 110
11, 584 10, 450	4, 698	43, 315 14, 600	2, 128	2, 082 1, 380	948 2, 301	240, 526 61, 581	2, 903 777	266, 498 116, 902	23, 069 54, 544	93 30					93 30	
5, 095 3, 980	22, 808	28, 796 104, 738		3, 796 3, 911	7, 787 508	142, 649 28, 102	6, 393	287, 846	138, 804 192, 026	72	10		2		60 95	
70, 307 154, 243	45, 110 232, 071	274, 283 534, 362			20, 605 94, 304	378, 795 661, 608	8, 713 39, 386	1, 012, 880 2, 630, 616	625, 372 1, 929, 622	ti - i	300		58	. 10	192 749	28
159, 566 76, 737 101, 806	99, 156 85, 080 220, 581	346, 812		15, 766 540 6, 925	171, 065 49, 766 65, 436	1, 135, 927 7, 399, 113 1, 106, 271	15, 510 80, 185 17, 450	2, 064, 211 8, 414, 683 2, 564, 132	912, 774 935, 385 1, 440, 411	1, 352	713 150)	305 619 174	194 164
79, 682 335, 963 41, 860 79, 680	34, 570 114, 790 8, 588 62, 095	764, 490 1, 896, 174 184, 435 60, 701 26, 161, 207	47, 976 568		377, 458 52, 805 2, 545 16, 680 4, 626, 882	1, 445, 456 678, 071 272, 576 680, 344 48, 695, 464	37, 112 7, 215 9, 459	3, 057, 848 3, 785, 457 639, 234 849, 435 118, 103, 440	1, 603, 684 3, 070, 274 359, 443 159, 632 68, 184, 561	017	9, 249	2, 250	26 46	3	124 967 194 617 18, 792	10, 01
welry abels and asts iquors, m umber an achine to otorcycle usical ins not speci rdnance a unts	l tags alt d timber p ols s, bicycles, struments fied and accesso	orks and rol oroducts and parts. and mater ries.	1 5 3 2 1 ials, 1 2	Pickies a	ina preser	and compour metics . graphophone wials . ves . ses, not else and dressing ering and iments . ing power pubes, and r lere specified	1	Saws Scales and Screws, ma Screws, wo Shirts Show cases Signs, othe Soap Steam fitt water he Steel barre	ot made in t-packing est balances chine od r than electr ings and st ating appara is, drums, an	iceam and	2 2 1 1 1 4 hot-	Struct Wood Surgi Type par Umb Vault Wash Wri	turalirerks or recal app writers per rellas au t lights ning rengers 1, turne	onwork olling m liances and and cane and ven achine	urnaces., not mad ills	e in steel carbon clothes
1 ,925, 478		13,371,657			2,167,575	33,123,629		67,759,001	33,868,702		4,515			2	12,051	
226,327 16,381 1,500 3,950	231,058 16,111 1,050	30,990 118,075 2,490		1,200 3,100 5,435 303	257,504 164 323 8,584 23 3,145	18.956	102,493 408 1,453 12,889 249 4,817	7,205,752 40,481 62,581 818,379 29,351 92,014	3,901,644 22,624 50,021 266,744 10,146 64,608	8,081 29 18 208 4 230	1,120	1,333	1	4 6 5	15 12 143 4 230	i
3,050 74,562 282,974	91,327	34,003 1,091,224 1,537,940	26,888	1,606 5,065 1,524	514 138,721 236,958 322	69, 215 1,486, 983 2,771, 464	715 72,086 111,204 472	133,815 4,180,910 6,554,071 58,261	2,621,841 3,671,403	12 1,934 2,166 22	150 378		. 32	5	1,400	34
96,352 13,900 55,567	35,937 7,872	660,205 9,795		1,170	118,818 5,806	563,744 69,170		2,036,594 180,828	1,440,344 111.008	975 13			1	0	635 13 195	
	1,785,522	10,230		840	6,318 1,384,572	19, 451	249	42,529 45,716,296	22,829 21,166,235	11,304	2,870	270	67	6	7,488	1,70
ished iquors, m umber, p includin with saw achine to attresses where sp	nalt. nd timber i planing mile g planing mile wills. s and spring secified.	rried, and products. Il products, mills conne g beds, not	not cted 2 3 else-	Pickles a Plumber specific Pocketb Printing and per Printing Pumps, Rubber	ind sauces. s' supplie ed ooks and publis riodicals materials. notincludi tires. tul	s, not else	where 1 1 sapers 7 1 1 3 3	Safes and v Signs and a Slaughterin Stationery specified Steam fitti	nd harness raults dvertising n ag and meat goods, n ngs and ste ating appara ng and electr hot-air furn	ovelties. packing ot elsew am and	1 1 2 here 1 hot- 2	Susp Wo Tool	el work enders, ven go s, not e	s or roll garte ds lsewher	ck, not ling mills rs, and respecifie es and where sp	elasti d

Same number reported for one or more other months.
Same number reported throughout the year.

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

		······································						TABL	E 46	3.—D	ETAILE	STAT	EMEN	T OF	ALL INI	DUSTRIES
	*.				PERS	ONS EN	GAGED	IN THE	INDU	STRY.					. 15, OR ATIVE DAY.	
	un elektrolet ett og	Num-			Sala- ried	Clerks	, etc.		Wa	ge earne	ers.		16 and	over.	Under 16.	
	INDUSTRY AND CITY.	ber of estab- lish-		Pro- prie- tors	offi-				Nu	nber, 1	5th day of—	_			:	Capital.
		ments	Total.	mem- bers.	tend- ents,	Male.	Fe- male.	Average num- ber.		dmum onth.	Minimum month.	Total.	Male.	Fe- male.	Male. Fe-male.	
	CITIES OF 50,000 INHA	ВІТА	NTS OR	MOR	E—AI	T IND	USTR	IES CO	мві	NED A	ND SPEC	FIED IN	DUSTR	IES-C	ontinued.	1
1	TOLEDO—All industries	671	48,776	417	1,451	3,051	1,767	42,090	De	48, 141	My 31,20	47,688	40,493	7,041	138 16	Dollars, 206, 032, 674
2 3 4 5 6 7 8	Artificial stone products Automobile bodies and parts Automobile repairing Bread and other bakery products Brooms, from broom corn Butter. Carriages and wagons, including	11 10 3 79 5 4	68 1,452 40 1,002 20 204 17	8 1 1 86 6	34 14	1 46 3 155	3 56 66 26	51 1,291 32 661 14 150	Se De Je De Ja Je No	79 1,637 34 722 16 171 3	Je 87 Fo 3 Mh 61 De 1 Fe 11	1,638 31 725 1 14 165	61 1,502 31 545 12 147	178 2	2	19,200 1,088,552
9	repairs. Cars and general shop construction and repairs, by steam-railroad	5	1,111		56	30	3	11 1,022	Oe	1,082			11 1,125			13,050 1,833,702
10 11 12 13	companies. Clothing, women's. Confectionery and ice cream. Copper, tin, and sheet-iron work Electrical machinery, apparatus, and supplies.	8 12 14 13	796 445 116 3,897	6 1 1	31 24 14 100	60 55 2 281	32 54 7 150	673 306 92 3,365	Au No Oc No	794 364 120 4,018	My 25 Fe 6	335 105	217 107 105 2,429	403 226 1,522	12	1,390,676 936,718 276,250 14,406,052
14 15 16 17	Flour-mill and gristmill products Foundry and machine-shop products. Furniture. Gloves and mittens, cloth, not in- cluding gloves made in textile	6 50 9 5	283 6,076 246 886	36 8		19 316 12 19	10 174 10 27	5,305 199 821	Se De De Ja	284 5,757 218 1,126	Ja 5,02 Ap 17	5,685 222	235 5,411 220 141	168 2 946	106	3,805,684 12,799,730 581,176 1,993,544
18 19	mills. Grease and tallow, not including lubricating greases. House-furnishing goods, not else-	3 5	47 48	2 - 1	4 7	6 3	8	35 29	De Jy	3 40 41	Ap 3:	1.	40 20	6		371,240 94,027
20	where specified. Lumber, planing-mill products, not including planing mills connected with sawmills.	15	399	6	31	27	7	328	Oc	360	Ja. 28	346	346			1, 451, 104
21 22 23	Marble and stone work, except slate. Mineral and carbonated waters Models and patterns, not including paper patterns.	6 8 9	120 60 110	4 1 1	10 5 7	18 4 3	3 2 2	85 48 97	De Au De	3 54 145	My 4	99 49 146	99 49 1 44	 2	.,	301,957 199,830 98,382
24 25 26	Patent medicines and compounds Printing and publishing, book and job. Printing and publishing, newspa-	19 59 19	84 683 667	15 50 7	7 53 35	17 44 177	11 58 110	34 478 338	Je No Oc	37 517 357	Mh 31 Ja 44 Fe 314	508	24 © 394 332	10 110 20	4	171,588 1,441,468
27 28 29	pers and periodicals. Tobacco, eigars Tools, not elsewhere specified	22 9 260	202 265 29,432	23 6 142	1 16 636	9 1,729	3 945	178 231 25, 980		200 278	No 150	154	51 237 26,458	103 3,189	1 15 · · · i2	1,601,272 117,662 420,038 152,529,955
Arti Auti Aw Bag Bal Bal Boo Boo Boo Boo Boo Boo Boo Boo Boo Bo	*All other industries embrace— feultural implements	Card c Carpel Carria Carria Cars a and Chemi Chewi Cleans Clothi Coal-ta Coffee ing Coke, Coope Corset Cottor	autting ar s, rag ge and wind ges and sind gener repairs panies. cals ng gum. ing and 1 ng, men's ar produc and spic not inclurage, hog. s	agon m leds, cl ral sho by collishin s sts e, roas ding g sheads	gning naterial hildren p conselectric ng prep ting an as-hous and ba	struction-railroad paration d grind se coke.	. 2 1 1 3 1 1 2 2 3 1 1 1 2 2 3 1 1 1 2 1 1 1 1	Cutlery hatch Druggis Dyeing Sive of Electro Engravi field. Fartilize Flags at Flavori Food I specifi Fur goo Gas and	and ets. its' pi and of tha platif ing, v ing, v ing ba in	edge reparati finishin t done i finishin tracts rations, tric fixt	tools, axes ons. g textiles, e n textile m and water d copper j inting. elsewhere s not elsev	and 1 1 2 1 2 2 3	Glass Glass, ment: Hair we Hand's Hardwe Hats an and w Ice, ma Instrumting Tron an Iron an steel Iron an Jewelry	cutting, ing	staining, a other than fe red rofessional a blast furnace steel works at forgings, not r rolling milk welding wrought pip	1 2 2 1 2 1 2 1 2 1 2 2

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).

COMBINED AND SPECIFIED INDUSTRIES; 1919—Continued.

7.2		EXP			167							POWER.	**************************************		1
Salaries and	wages.	1 5,357	Rent a	nd taxes.	For ma					P	rimary l	horsepo	wer.		Elec-
Officials. Clerks	Wage earners.	For contract work,	Rent of factory.			Fueland	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Own Steam tur- bines.	Internal- com- bus- tion en- gines.	Wa- ter pow- er.1	Rent- ed. ²	tric horse- power gener- ated in estab- lish- ments report- ing.

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES-Continued.

Dollars. 6, 885, 853	Dollars. 7, 551, 320	Dollars. 53, 363, 067	Dollars. 982, 295	Dollars. 547, 117	Dollars. 10, 053, 262	Dollars. 164, 529, 733	Dollars. 8, 757, 886	Dollars. 293, 520, 900	Dollars, 120, 233, 281	93, 227	28, 323	5, 605	2, 523	460	56, 316	14, 387	1
9, 017 179, 669 6, 035	2, 561 115, 378 2, 310 211, 788	70, 504 1, 640, 738 42, 869 756, 817		693 4, 720 5, 570 35, 170	1, 451 51, 645 675 111, 465	148, 986 2, 878, 682 62, 798 3, 452, 924	3, 567 157, 103 1, 958	293, 286 5, 922, 578 139, 975	140, 733 2, 886, 793 75, 219	80 1,923 45 943			22 17		58 1,906 45 879	24	2 3 4
135, 339 60, 805	50, 652 1, 196	17, 700 221, 536 16, 497		20, 686	111, 400 153 19, 589 397	3, 423, 387 22, 009	96, 729 317 46, 506 1, 112	5, 774, 946 80, 412 4, 324, 608 54, 935	2, 225, 293 32, 675 854, 715 31, 814	12	95		2		10 259 30	438	6
139, 007	44, 382	1, 591, 857			2, 577	650, 445	117, 195	2, 609, 557	1, 841, 917	1,660	375				1, 285	883	9
190, 346 131, 672 25, 267 580, 798	216, 456 141, 575 5, 283 676, 632	246, 408 105, 635	100	27, 779	57, 408 108, 033 5, 904 1, 548, 505	2, 325, 465 1, 704, 752 236, 678 8, 748, 527	9, 766 43, 306 2, 404 122, 441	4, 163, 468 2, 776, 615 513, 413 19, 245, 500	1, 828, 237 1, 028, 557 274, 331 10, 374, 532	163 599 43 5,413			25		163 599 43 5,388		10 11 12 13
156, 687 786, 242 36, 723 81, 269	38, 531 593, 687 30, 436 55, 368	215, 283	3,708	5, 459	164, 725 354, 479 8, 533 128, 037	11, 430, 618 8, 128, 806 285, 466 1, 572, 149	85, 418 789, 387 11, 018 16, 720	13, 432, 512 22, 416, 062 763, 156 2, 840, 984	1, 916, 476 13, 497, 889 466, 672 1, 252, 115	2,723 10,987 370 190	2, 340 2, 591 60	35	379 132	120	228 8, 017 178 190	340 1,944	14 15 16 17
10, 239	7,042	53, 849			13, 124	145, 882	37, 213	359, 646	176, 551	256	230				26		18
15, 085	11, 155	29, 165		2,880	2, 025	115, 350	1,065	202, 035	85, 620	7					7		19
110, 041	40, 741	368, 227		3, 018	28, 583	1, 490, 796	23,059	2, 238, 609	724, 754	1,814	675		20		1,119		20
22, 703 9, 550 21, 910	34, 037 8, 730 4, 210	165, 739 66, 112 168, 884		3, 061 3, 080 7, 362	6, 215	278, 134 183, 035 54, 076	3, 435 3, 128 3, 686	659, 032 337, 838 323, 158	377, 463 151, 675 265, 396	167 125 78			70		97 105 78		21 22 23
16, 736 148, 981	57, 549 90, 706	39, 109 547, 713	48, 893	9, 466 55, 568	3, 437 15, 751	111,302 851,770	2, 980 22, 290	408, 420 2, 279, 574	294, 138 1, 405, 514				2		91 576		24 25
107, 204	100	493, 896		1 ;	141,756	1, 032, 241	18, 780	3, 514, 811	2, 463, 790	621					621		26
8, 950 59, 239 3, 836, 339		137, 336 303, 828 33, 875, 401	247, 724	4, 144 10, 167 229, 724	1 8,960	203, 419 95, 394 114, 849, 222	1, 220 7, 925 7, 128, 158	596, 299	492, 980	63, 733	21,877	5, 570	29 1,825	336	9 184 34, 125	10,758	27 28 29

Knit goods
Liquors, malt
Lithographing
Looking-glass and picture frames
Machine tools
Mattresses and spring beds, not else-
where specified
Millinery, trimmed hats and hat
frames, etc
Mirrors, framed and unframed
Motorcycles, bicycles, and parts
Mucilage and paste
Musical instruments and materials,
not specified
Musical instruments, organ materials
Oil, linseed
Oil, composite
Optical goods
Paints
Paper goods, not elsewhere specified.

1	Paying materials
	Peanuts, grading, roasting, cleaning,
	and shelling
	Pens, fountain and stylographic
Į	Perfumery and cosmetics
i	Petroleum, refining
	Photographic materials
	Photo-engraving
	Pickles and sauces
	Plumbers' supplies, not elsewhere
	specified
	Pottery, earthen and stone ware
	Refrigerators
	Roofing materials
	Dubber tires tubes, and rupper
	goods, not elsewhere specified
	Saddlery and harness
	Colon
	Courses not made in slaughtering
	and meat-packing establishments.
	street moun-bookerne control

1	11/2	1 .		11 :	11
_					
Saws					
		balanc			
Screv	vs, m	achine.			
Ship	bulldi	ing, ste	el		
Ship	buildi	ing, wo	oden.	repair	work
	S				
	case				
Cion	ond.	advert	ieina	noveltic	20
Clem	Lauu	ng and	Transt	no ofein	~
		ng and	THOM	packing	5
Soap		eel, au		71.	
Spru	188, SI	teet, au	comon	цө	
Stan	ipea y	ware			
Steam	n fiti	ings a	nd ste	am an	d nor-
wa	ter he	eating a	ppara	tus	
Steel	barre	els, dru	ms, an	d tanks	, port-
ah	e				
Sten	cils ar	nd bran	ds		
Star	otvoi	ing and	electr	otypine	
- DOL	~~y y	orive	0-0002	, p	
			-		
***		a other	month	10	

' '	2,0.0
IJ	Stoves and hot-air furnaces
L	Structural ironwork, not made in
L	steel works or rolling mills
ιl	Surgical appliances
1	Tinware, not elsewhere specified
3	Tobacco, chewing and smoking
	Toys and games
1	Trunks and valises
i 1	Umbrellas and canes
	Varnishes
	Vinegar and cider
1	Wall plaster and composition flooring
- 1	Waste
۱,	Wheelbarrows
. 1	Window and door screens
4	Window and door screens
. 1	Wirework, not elsewhere specified
L	Wood preserving
L	Wooden goods, not elsewhere speci-
2	fied
- 1	and the second s

Same number reported for one or more other month

TABLE 46.—DETAILED STATEMENT OF ALL INDUSTRIES

===					PERS	ONS EN	GAGED	IN THE	INDU	STRY.		NEAT	GE EARN EST REPI	ERS DE	c. 15,	OR DAY.	
					Sala-	Clerk	s, etc.		Wag	ge earne	rs.		16 and	l over.	Und	er 16.	2 8
	INDUSTRY AND CITY.	Num- ber of estab- lish-		Pro- prie- tors	ried offi- cers, super-				Nun	nber, 1	ith day of-	-					Capital.
		ments	Total.	and firm mem- bers.	in- tend- ents, and man- agers.	Male.	Fe- male.	Aver- age num- ber.		imum onth.	Minimun month.	Total.	Male.	Fe- male.	Male.	Fe- male.	
	CITIES OF 50,000 INHA	BITA	NTS OR	MOR	E—AI	L IND	USTR	IES CO	MBI	NED A	ND SPE	IFIED I	II NDUS T F	RIES—C	Contin	ued.	<u></u>
1	YOUNGSTOWN—All industries	239	23,047	200	500	2,045	888	19,414	Se	22,303	Oc 10,9	16 20,52	19,621	898	i e	3	Dollars. 186,774,621
2 3 4 5 6 7 8	Artificial stone products Automobile repairing. Bread and other bakery products. Confectionery and ice cream Foundry and machine-shop products. Marble and stone work, except slate Models and patterns, not including	11 15 4	22 146 348 130 1,419 33	4 8 59 10 5 4	3 2 11 14 83 2	27 8 96 1	13 32 31 1	124 238 68 1,204 25	De Jy Je Ja Jy	139 246 85 1,399 38	Mh 2 Fe My 9 Ja	7 1 10 13 31 24 42 7 76 1,38 13 2	7 134 9 212 3 51 1 1,328 2 22	36 2 36 22 53	1		34,760 442,335 610,173 415,672 10,988,101 112,351
9 10 11	paper patterns. Patent and proprietary medicines. Printing and publishing All other industries*.	5 4 28 108	29 12 495 20,413	4 32 68	34 347	68	1 1 66 734	7 295	De		Fe (4) Ja 2	9 2 7 75 31 18,30	5 256 3 256	8 54 724	3 2		58,414 18,660 1,077,743 173,016,412
Aut Bas Bra Bro But	*All other industries embrace— ificial limbs	and comp Cars a and comp Cars, s open Chemi Cleansi Clothin	nd gener repairs panies nd gener repairs panies team-rai acais ing prepa ng, men's	by a al shop by lroad, ailroad	lectric p cons steam not in l comp	tructio railroa railroa acludin anies	d 1 1 d 1 d 1 d 1 d 1 d 1 d 1 d 1 d 1 d	Coke, n Copper Dental Electric suppl Electro Engrav inclue Flour-n	otine, tin, a goods cal ma ies plating, s ling puill an	and she achiner teel ar late pri ad grist	grinding gas-house et-iron wo 7, apparat d copper nting mill produ	s, and plate,	Furnit Gas an Gas, ill Grease lubri Hands Hardw Hats an	ure, med delectr uminat and t cating g stamps are, loc nd caps	ic fixto ic fixto ing an allow, reases ks , other	d heati not i	Sewhere
1 2 3 4 5	ALLIANCE ASHTABULA BARBERTON BELLAIRE BUCYRUS	74 62 32 45 43	6, 176 4, 509 5, 829 2, 495 2, 107	70 45 18 38 35	146 114 167 71 79	622 120 674 70 74	221 58 208 39 58	5, 117 4, 172 4, 762 2, 277 1, 861	Ja Au Ja Au Ja	5, 898 4, 485 5, 661 2, 734 2, 421	In 43	6 2,88	4,659 2,456	427	1 4		23, 907, 795 10, 766, 883 33, 880, 212 8, 994, 616 7, 506, 268
6 7 8 9 10	CAMBRIDGE CHILLICOTHE COSHOCTON CUYAHOGA FALLS EAST CLEVELAND	32 35 45 30 17	2,034 1,893 2,344 998 127	21 35 29 27 13	69 99 103 50 14	117 66 167 86 4	45 55 86 51 8	1, 782 1, 638 1, 959 784 88	De Je Se Au Ja	1,882 1,996	Fe 1,6 Mh 1,3 Ja 1,7 Ja 7	1,89 39 1,86 2 2,09	1,749 1,496 1,364 821	145 362 722 39	5 4 4 10		4, 213, 735 5, 164, 695 5, 311, 902 4, 906, 690 232, 933
11 12 13 14 15	EAST LIVERPOOL ELYRIA FINDLAY FREMONT HAMILTON.	67 75 75 53 130	4, 653 5, 132 2, 012 3, 409 9, 704	40 42 66 32 113	162 155 91 94 270	55 170 59 220 521	85 175 81 64 247	4,311 4,590 1,715 2,999 8,553	Oc Ja De- No Au	4, 518 3, 843 1, 900 3, 283 9, 251	Fe 4,1 De 5,5 Mh 1,5 Ap 2,7 Fe 7,9	5,57 5 1,96	1,408 2,587	879 532 709	3 7 2		7,602,589 21,756,093 4,984,226 9,935,870 33,678,213
19 20	IBONTON KENMORE LAKEWOOD LANCASTER LIMA	52 7 33 43 108	2,238 153 2,163 2,286 5,726	37 7 24 30 98	103 5 34 53 150	72 1 164 133 412	55 5 120 46 165	1, 971 135 1, 821 2, 024 4, 901	Jy De De	2, 217 139 2, 225 2, 083 5, 619		0 2,220 2 2,24	129 1,914 1,745	8 312 495	40 i		10,819,350 553,951 8,170,514 5,411,591 18,347,876
23 24 25	LORAIN MANSFIELD MARIETTA MARION MARION MARTINS FERRY	55 132 59 70 40	12,622 5,892 1,649 4,852 1,766	40 120 55 43 30	208 183 76 151 76	563 605 127 348 111	134 273 106 185 32	11,677 4,711 1,285 4,125 1,517	Mh My De No Fe	12, 323 4, 321 1, 670 4, 257 2, 293	Jy 11,00 De 5,22 Fe 99 Je 3,99 Oc 3	9 5,001 5 1,720 0 4,319	12,866 3,967 1,522 3,774 1,725	85 1,029 195 512 77	5 2 4	6 1 29	130, 835, 811 21, 840, 929 5, 585, 807 17, 221, 927 7, 083, 260
27	Massillon Middletown New Philadelphia Newark Niles	80 56 43 79 40	2, 566 7, 529 1, 426 5, 077 3, 257	77 38 33 67 23	125 212 37 140 95	97 542 72 148 114	114 295 37 152 80	2, 153 6, 442 1, 247 4, 570 2, 945	Je De Oc De Ja	2, 271 6, 698 1, 397 4, 963 3, 770	Fe 2,00 My 6,16 Ap 1,02 Jy 4,16 Oc 1,02	9 2,353 4 6,636 8 1,381 0 4,967	2, 126 5, 475 1, 244	210	5 2 8	3 1 7	43, 336, 957 59, 626, 309 4, 025, 171 15, 056, 227 14, 834, 187
33 I	NOEWOOD PIQUA PORTSMOUTH SALEM SANDUSKY	70 66 60 36 115	9,682 3,907 6,701 2,609 4,202	49 40 45 17 92	290 140 270 119 222	606 335 213 136 283	454 99 259 100 158	8, 283 3, 293 5, 914 2, 237 3, 447	De De De De De	3, 809 6, 860 2, 565	Ap 7,61 Jy 2,90 My 5,36 Mh 2,04 Je 3,24	5 9, 178 7 3, 818 5 6, 886 0 2, 500	7,686 2,651 5,061	1, 491 1, 163 1, 604 113 675	1 3 · 200 II	i	36,511,561 12,586,017 22,282,655 9,598,287 18,138,900
36 37 38 39	STEUBENVILLE TIFFIN WARREN ZANESVILLE	57 75 96 97	4, 328 2, 619 3, 036 3, 490	54 90 76 74	196 71 148 129	157 130 187 167	66 115 192 106	3, 855 2, 213 2, 433 3, 014	Se De De Fe	4, 803 2, 430 2, 802 3, 117	Oc 1, 26 My 2, 08 My 2, 17	2 4,826 4 2,403	4, 560 2, 136 2, 212	241 263 629 719	20 4 28	5 4 2 14	35, 341, 250 7, 751, 130 11, 229, 221 10, 137, 023

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919-Continued.

			EXPE	NSES.									OWER.		1	
Sala	ries and wa	iges.		Rent ar	d taxes.	For mat	terials.				Prin	ary ho		er.		Elec- tric
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Own Steam tur- bines.	Internal-combustion engines.	Wa- ter pow- er. ¹	Rent- ed. ²	horse- power gener- ated in estab- lish- ments report- ing.
	CITIE	S OF 50,0	00 INHA	BITANI	s or Mo	RE-ALL	INDUSTR	IES COMB	INED ANI	SPECI	FIED I	rbusi	RIES-	-Conti	nued.	
Dollars. 2, 225, 108	Dollars. 5, 508, 127	Dollars. 38, 319, 382	Dollars. 60, 703	Dollars. 167, 449	Dollars. 6,614,074	Dollars. 143, 192, 238		Dollars. 241,458,370	Dollars. 78, 359, 653						21,397	70,972
6,650 25,365 59,385 44,224 333,422 5,387	49,683 30,890 212,638	109,860	3,311	720 10,915 32,148 17,820 460 2,242	51, 099 12, 982 622, 248	1 1.660.133	7,853 39,630 5 15,816 7 183,902	9,604,195 104,442		8,753 72			1		158 319 579 2,488 7	3,964
		40, 441 7, 152 425, 068 35, 202, 568		1 0 221	261		21 108	<u> </u>	87, 707 12, 969 1, 556, 579 69, 925, 979 struments a	298, 39 4	183, 87	61,50	35,77	5	17,235	
mills ron and s steel wor ron and s	factured teel, blastf eel, steel w teel forging rks or rollin teel, weldin teel, wroug nalt	gs, not ma ng mills	de in 1	Mineral	and carbo	nated water is, ground or	s 5	Rubber ti goods, no Saddlery a Sausage, n	l sauces res, tubes, it elsewhere nd harness.	and ru specified	bber 1	Tools Wall	, not el plaster	sewher and cor	e specific nposition	d a flooring
		5 760 25	8 6 10	CITIES	OF 10,000	1	INHABIT.	and mean Signs, other ANTS 5—AL 32,871,087	-packing est r than electi L INDUST	RIES C	OMBINI 7,23 5,93	ED.	. 12	4	5,12	3 305
508, 526 412, 047 574, 688 241, 042 257, 308	1,461,478 278,544 1,370,864 182,841 169,258	5,769,25 5,812,96 6,261,26 2,728,92 2,237,59	6,10 0 44 9 57,07 0 14,25	CITIES 3 14,07 5 11,56 4 2,61 7 8,38 36,85	OF 10,000 1,449,91 1,346,95 746,07 7 158,85 137,66	TO 50,000 14,029,76 10,660,06 312,622,82 18,700,64 4,245,24	759, 668 308, 804 2, 072, 914 11, 227, 871 155, 680	and mean Signs, other ANTS 4—AL 32,871,087 23,098,506 27,713,226 14,502,401 8,435,746	Than electric th	RIES C 12, 48 1 9,01 7 29,00 15,38 7 5,59	OMBINI 7, 23 3, 5, 93 18, 12 7, 12, 47 12, 47 2, 40	ED. 2 3 7 8,11 2 1,02 5 9	7 3 0 53 0 61	34 37 30 14	2,090 2,711 1,36 2,48	3, 305 15, 659 2, 804 1, 205
508, 526 412, 047	1,461,478 7 278,544 2 182,841 3 169,258 7 208,225 4 125,336 8 346,715	5,769,25 5,812,96 6,261,26 2,728,92 2,237,59 3,037,72 1,840,12 1,652,47	3 6,10 0 44 9 57,07 0 14,25 9	CITIES 3 14,07. 11,56 4 2,61 4 36,85 0 5,32 0 5,32 4 5,57	OF 10,000 1,449,91- 1,346,95- 7,746,07- 7,9158,85- 137,66	TO 50,000 14, 029,76 10, 660,00 3, 12, 622,85 11, 8, 700,64 9, 4, 245,24 0, 5, 549,36 5, 4, 090,0 6, 4, 090,0 9, 2, 929,68	759, 668 308, 804 2, 072, 914 11, 227, 871 155, 680	and meal Signs, other ANTS —AL 32, 871, 087 23, 098, 506 27, 713, 221 14, 502 14, 502 11, 226, 80 7, 667, 18 7, 684, 76 5, 829, 34 420, 50	- packing est r than electr L INDUST 18,081,65 12,129,64 13,017,48 4,573,88 4,034,81 5,373,64 2,3812,90 2,789,55 229,55	RIES C 12, 48 1 9, 01 29, 00 15, 38 7 5, 10 3 5, 33 3 5, 33 3 4, 19 8 21	7, 23 3 7, 33 18, 12 7, 2, 47 0 12, 47 0 4, 82 6 6 3, 35 1, 67 3, 7	ED. 2 3 7 8,11 1,02 5 0 1,15 0	98 7 3 0 53 0 61 10 5 36 45	34 37 30 14 32 53 9. 25 54	2,09 2,71: 1,36 2,48 23: 5 3,22 7 2,90	3, 305 15, 659 5, 2, 804 1, 205 3, 1, 249 9, 2, 586 1, 210 8, 762
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Same number reported for one or more other months.
 Same number reported throughout the year.
 Excludes Cleveland Heights and East Youngstown to avoid disclosure of individual operations.

OKLAHOMA.

GENERAL STATISTICS.

General character of the state.—Oklahoma has a gross area of 70,057 square miles, of which 69,414 represent land surface. The inhabitants of the state in 1900 numbered 790,391; in 1910, 1,657,155; and in 1920, 2,028,283. In total population Oklahoma ranked twenty-first among the states in 1920. The number of inhabitants per square mile in 1910 was 23.9, the corresponding figures for 1920 being 29.2.

English All Comments

In 1920 there were 12 cities in the state—Ardmore, Bartlesville, Chickasha, Enid, Guthrie, McAlester, Muskogee, Oklahoma City, Okmulgee, Sapulpa, Shawnee, and Tulsa—having more than 10,000 inhabitants. These 12 cities, the combined population of which in that year was 317,264, or 15.6 per cent of the total for Oklahoma, reported 33.3 per cent of the value of the state's manufactured products in 1919.

Importance and growth of manufactures (Table 1).—
The large increases in salaries and wages, cost of materials, and the value of products, from 1914 to 1919, as presented in Table 1, are chiefly due to the change in industrial conditions brought about by the World War, and therefore can not properly be used to measure the growth of manufactures during the census period 1914–1919. The increases shown, however, in number of wage earners and horsepower are indicative of a decided growth in the manufacturing activities of the state. The addition of the Federal income tax since 1914 will account for the large increase in "Rent and taxes."

Statistics for the state, by counties (Table 2).— Figures are not available for comparison of county totals for 1919 with those for prior censuses.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is not always satisfactory as indicating their importance from a manufacturing standpoint. In some instances their ranking would change materially if based upon the average number of wage earners or value added by manufacture.

Persons engaged in manufacturing industries (Table 4).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex for 1919 was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 26.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed more than 500 wage earn-

ers in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more (Table 6).—In general, increases from 1914 to 1919 are shown in all of the details for the 12 cities included in this table.

Wage earners, by months (Table 7).—The statistics for wage earners are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the several census years.

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months, similar data are given for males and females for all industries combined, and also for each of the 12 cities having more than 10,000 inhabitants. There were a number of industries in the state in 1919 in which the number of female wage earners predominated. The 12 cities combined reported a somewhat larger proportion of female wage earners than the state as a whole, 11.2 per cent, as compared with 6.3 per cent for the state.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working-day in Oklahoma. In that year 25 per cent of the wage earners were included in the group "48 and under," as against 44.2 per cent in 1919. In 1914 the "60" and "over 60" groups constituted 45.1 per cent of the total wage earners, as compared with 25.4 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of small establishments, based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 97.8 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 48.9 per cent of the total number of wage earners. On the other hand, the establishments employing an average of more than 100 wage earners represented only 2.2 per cent of the total number of manufacturing establishments in the state, but reported 51.1 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—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.

Size of establishments, by value of products, for selected industries (Table 12).—In the preparation of this table ot was necessary in several instances to combine the establishments of one group of the industry with those of some other group of that industry, to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for cities of 10,000 inhabitants or more (Table 13).—This table strikingly illustrates the fact that the number of establishments of itself is no real index of manufacturing activities.

Character of ownership (Table 14).—The preponderance of corporate ownership is clearly brought out in this table. Although corporations owned but 29 per cent of the number of establishments in the state in 1919, they reported 85.6 per cent of the average number of wage earners and 91.6 per cent of the total value of products. During the five-year period 1914–1919, the average number of wage earners in corporations increased 12,230, or 93.8 per cent, and the value of products \$278,772,155, or 314.3 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the combined number of establishments in the 12 cities in 1919 represented 30.5 per cent of

the total in the state. They reported in that year 38.8 per cent of the average number of wage earners and 33.3 per cent of the total value of products.

Principal industries in Oklahoma City and Tulsa, with per cent of total for the state (Table 16).—This table includes all industries in Oklahoma City and Tulsa having products of \$500,000 and over, the figures being given for those which can be shown without disclosing the operations of individual establishments.

It is deemed of first importance to present the statistics of the state as a whole for all industries which can be shown without disclosing the operations of individual establishments. In so doing, however, it sometimes happens that quite important industries can not be shown in the city, since to do so might disclose the operations of establishments located outside, by the simple deduction of the totals shown for the industry in the city from that given in the detailed state table.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 42,675 horsepower, or 43.9 per cent. This increase, however, is chiefly due to the gain of 25,595 horsepower, or 249.1 per cent, in rented power. The owned power increased 17,080 horsepower, or 19.6 per cent, during the five-year period.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel.

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

		MANUE	ACTURING INDU	STRIES.	north agai	PĘ	R CENT OF	INCREASE	,1
eysis to refined equipment of absolutely Boltoness in the state of the second	1919	1914	1909	1904	1899	1914 1919	1909- 1914	1904- 1909	1899- 1904
Number of establishments	2,445	2,518	2,310	1,123	495	-2,9	9.0	105.7	126.9
Persons engaged Proprietors and firm members Salaried employees Wage earners (average number)	38,314 2,320 6,491 29,503	22,700 2,464 2,793 17,443	18,034 2,698 2,193 13,143	7,456 1,187 813 5,456	(2) 269 2,381	68. 8 -5. 8 132. 4 69. 1	25. 9 -8. 7 27. 4 32. 7	141. 9 127. 3 169. 7 140. 9	202. 2 129. 1
Primary horsepower	139,983 \$277,034,318	97,308 \$65,477,654	71,139 \$38,872,938	29,608 \$16,124,417	11,572 \$4,054,391	43. 9 323. 1	36. 8 68. 4	140.3 141.1	155. 9 297. 7
Salaries and wages Salaries Wages	46, 987, 133 11, 961, 191 35, 025, 942	14, 213, 375 3, 202, 332 11, 011, 043	9,285,472 2,045,295 7,240,177	3,517,822 718,420 2,799,402	1,112,729 218,662 894,067	230.6 273.5 218.1	53, 1 56, 6 52, 1	164. 0 184. 7 158. 6	216, 1 228, 6 213, 1
Paid for contract work. Rent and taxes. Cost of materials Value of products. Value added by manufacture 4	475, 181 5,608,944 312,605,829 401,362,869 88,757,040	307, 885 909, 729 70, 969, 750 102, 005, 693 31, 035, 943	373,954 562,667 34,152,894 53,682,405 19,529,511	91,140 * 188,848 16,393,952 24,459,107 8,065,155	(2) (2) 5,430,447 8,133,936 2,703,489	54. 3 516. 6 340. 5 293. 5 186. 0	-17.7 61.7 107.8 90.0 58.9	310.3 108.3 119.5 142.1	201. 9 200. 7 198. 3

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Therefore it is abbricated to be founded to the following the collection of biseries advisable and Fee. 68 obtained and a form of the collection of the collectio

distribution to a single property of the contract of the state of the

¹ A minus sign (—) denotes decrease.
² Figures not available.

^a Exclusive of internal revenue.
⁴ Value of products less cost of materials.

TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919.

	Num- ber of	WAGE	EARNERS.	Rents and	Cost of	Value of	Value added	Primary
COUNTY.	estab- lish- ments.	Average number.	Wages.	taxes.	materials.	products.	by manu- facture.	horse- power.
The state.	2, 445	29, 503	\$ 35, 025, 942	\$5,608,944	\$ 312,605,829	\$401, 362, 869	\$88,757,040	139, 983
Adair:	17	87	92, 863	3, 561	163, 456	336, 062	172, 606	225
Alfalfa	25	59	59, 781	47, 232	1,004, 766	1, 251, 515	246, 749	733
Atoka	26	82	64, 968	5, 860	91, 589	234, 759	143, 170	838
Beaver	9	12	15, 215	936	31, 668	72, 509	40, 841	71
Beckham	21	43	46, 267	13, 639	673, 627	820, 451	146, 824	1,061
Blaine Bryan Caddo Canadian Carter	22	115	131, 400	21, 162	1,603,316	1,990,048	386, 732	799
	33	88	85, 649	14, 892	902,590	1,170,548	267, 958	887
	36	75	53, 318	9, 400	857,183	1,030,733	173, 550	1,030
	27	534	748, 127	201, 804	10,393,299	12,221,827	1, 828, 528	3,336
	49	484	493, 942	128, 052	7,824,159	10,596,990	2, 772, 831	2,083
Cherokee.	8	14	10, 586	2,615	111, 017	147,040	36, 023	239
Choctaw	35	497	509, 075	56,103	1, 449, 648	2,551,527	1,101,879	2,894
Cleveland	13	49	57, 263	13,140	370, 276	519,157	148,881	524
Coal.	5	7	7, 086	1,718	11, 476	20,988	18,512	103
Comanche	28	145	180, 602	26,934	534, 294	1,491,058	956,764	1,517
Cotton	15	19	17, 848	2, 749	68, 500	126, 704	58, 204	168
Craig.	20	238	354, 476	30, 581	7, 468, 350	8, 709, 450	1, 241, 100	867
Creek	84	1,456	1, 545, 212	160, 653	6, 855, 974	9, 970, 940	3, 114, 966	4, 266
Custer.	34	88	83, 496	65, 280	2, 113, 923	2, 616, 070	502, 147	1, 424
Delaware.	19	17	15, 088	1, 683	203, 584	276, 769	73, 185	320
Dewey. Ellis Garfield Garvin. Grady	7	4	3, 996	885	5, 289	23, 193	17, 904	21
	12	16	17, 289	3,415	258, 187	335, 864	77, 677	263
	73	566	704, 038	126,745	11, 799, 246	14, 289, 300	2, 490, 054	2,799
	29	68	68, 928	22,430	1, 095, 287	1, 428, 140	332, 853	1,061
	31	610	748, 374	67,708	3, 868, 244	5, 210, 092	1, 341, 848	2,541
Grant.	20	38	45, 492	9, 826	1, 424, 912	1,573,942	149,030	519
Greer.	15	72	72, 114	12, 823	441, 074	643,202	202,128	836
Harmon.	8	13	16, 688	4, 757	128, 813	195,119	66,306	265
Harpes.	14	17	17, 424	3, 611	33, 905	79,515	45,610	148
Haskell	11	72	46, 978	6, 761	229, 485	318,060	88,575	385
Hughes.	24	50	50, 462	10, 711	327, 977	464, 755	136, 778	615
Jackson	20	120	139, 146	20, 710	1, 048, 904	1, 481, 917	433, 013	1,111
Jefferson	14	105	129, 037	32, 942	825, 810	1, 100, 027	274, 217	593
Johnston.	10	5	6, 930	990	17, 374	39, 337	21, 963	25
Kay.	70	1,126	1, 359, 752	198, 509	13, 179, 944	16, 843, 510	3, 663, 566	5,031
Kingfisher	17	64	56,038	41, 332	1,504,008	1,766,829	262, 821	690
Kiowa.	30	81	74,460	11, 052	472,576	663,475	190, 899	1,249
Latimer	13	93	69,188	5, 772	93,143	231,465	138, 322	642
Le Flore	31	413	525,413	15, 228	707,451	1,606,874	899, 423	2,032
Lincoln	29	100	88,142	20, 004	1,343,304	1,663,343	320, 039	1,038
Logan.	53	409	326, 323	60, 517	4, 265, 998	5,326,317	1,060,319	2, 126
Love	4	5	4, 790	2, 498	17, 949	35,704	17,755	42
McClain	13	33	39, 536	8, 782	550, 519	649,330	98,811	461
McCurtain	35	1,271	1, 216, 689	175, 810	934, 302	3,080,140	2,145,838	4, 149
McIntosh	19	155	140, 281	17, 697	476, 535	754,624	278,089	840
Major	12	19	17,606	3,314	75, 389	134, 593	59, 204	142
Marshall	12	43	38,100	9,678	689, 059	776, 254	87, 195	399
Mayes	23	15	12,708	3,256	98, 155	153, 263	55, 108	287
Murray	12	109	50,553	12,790	85, 710	243, 811	158, 101	579
Muskogee	96	1,595	1,912,885	156,808	6, 463, 360	10, 108, 649	3, 645, 289	5,568
Noble	19	49	62, 253	9,932	1,331,635	1,544,914	213, 279	394
Nowata	17	48	53, 985	9,243	75,029	250,571	175, 542	168
Okfuskee	21	87	87, 475	11,866	464,242	631,074	166, 832	461
Oklahoma	251	5, 822	6, 469, 925	1,410,683	87,567,959	101,688,647	14, 120, 688	16,312
Okmulgee	65	1, 630	2, 220, 689	242,704	11,128,009	15,156,854	4, 028, 845	3,249
Osage	51	214	299, 601	42, 363	1,049,597	1,760,427	710, 830	1,080
Ottawa	55	223	259, 527	38, 786	1,810,017	2,504,964	694, 947	1,377
Pawnee	25	102	160, 462	19, 083	1,782,252	2,280,089	497, 837	204
Payne.	67	981	1, 019, 536	222, 230	27,533,669	30,481,653	2, 947, 984	3,009
Pitisburg	55	488	541, 525	53, 619	2,065,648	3,068,089	1, 002, 441	7,801
Pontotoc. Pottawatomie. Pushmataha. Roger Mills.	34 60 24 3	1,171 112 2	597, 827 1, 517, 773 127, 804 1, 134	75, 495 61, 994 5, 343 297	2, 672, 498 4, 245, 782 202, 976 10, 282	4, 510, 079 6, 568, 265 394, 717 15, 418	1, 837, 581 2, 322, 483 191, 741 5, 136	1, 887 3, 951 870 39
Rogers Seminole Sequoyah Stephens	17 12 12 12 15	77 7 36 27	63, 840 · 6, 501 35, 260 28, 349	6,848 1,678 14,093 5,750	234, 923 16, 575 382, 516 131, 209	382, 476 38, 989 483, 816 221, 618	147, 553 22, 414 101, 300 90, 409	427 100 439 219
Texas. Filiman Tulsa Wagoner	16	22	24,098	3,696	52, 817	110, 283	57, 466	168
	16	37	45,031	8,009	126, 804	270, 149	143, 345	372
	194	4,765	6,605,749	1,306,591	63, 966, 212	86, 727, 224	22, 761, 012	27, 216
	22	117	118,420	9,876	1, 198, 567	1, 559, 299	360, 732	756
Washington	48	1,356	1, 805, 714	108, 750	6,771,020	10, 073, 724	3, 302, 704	7,639
Washita	15	30	32, 967	5, 900	248,158	331, 165	83, 007	301
Woods	24	162	223, 854	50, 209	2,007,408	2, 464, 307	456, 899	1,156
Woodward	24	49	45, 021	7, 951	335,421	459, 269	123, 848	546

MANUFACTURES—OKLAHOMA.

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

1018		JV1.E	TLO T		_	TO BY VALUE OF PRO	DUC(LS: 1979	_	
1216	.101	RINCIPA	L INDU	STRI	IES, RA	NKED BY VALUE OF PRO	7. 1			VALUE
TABLE 3		W111		1	11		establish-		VALUE OF PRODUCTS.	ADDED BY MANUFAC-
	à II		VALUE O	,) AT	VALUE DDED BY		stab	EARNERS.	FRODU	TURE.
	establish-	WAGE EARNERS.	PRODUCTS	M.	ANUFAC-		of e	0 18	수보는 함	성무용 등급
	g gt					INDUSTRY.		er. Ser	int and	Strict Issued
INDUSTRY.	of o	9 . 5	A (8)	e g	ion.		Number	A verage number. Per cent dis-	Amount (expressed in thousands). Per cent distribution.	Amount (expressed in thousands). Per cent distribution.
INDUITE OF THE PROPERTY OF THE		ort of the	Sed used	tribution.	pressed in thousands). Per cent dis- tribution.		\Z	Pe B	3 4 PHS H	
	Number	A verage number. Per cent dis- tribution.	Amount (expressed in thousands).	2 E 2	Pt St	- Jack or	14		7 e2 507 0.	6 \$1,650 1.9 0.5
	Z	29,503 100.		00.0 \$8	88, 757 100. 0	Printing and publishing, book an	9	7 505 1. 7 168 0. 5 187 0. 455 1 22 628 2	6 2,402 0.	6 921 1.0
All industries	-	29, 503 100.	150 673	37. 5 2	3,524 26.5	job. Coffee, roasting and grinding. Confectionery, ice cream. Automobile repairing. Brick and burnt-clay ballast	1	5 187 1	$\begin{bmatrix} 5 & 2,108 & 0. \\ 1 & 1,679 & 0. \end{bmatrix}$	$\begin{array}{c cccc} 5 & 1,206 & 1.4 \\ 4 & 1,036 & 1.2 \end{array}$
refining.	. 66 227	11 058 1 3.	150,673 8 49,844 7 19,518 2 18,907	12.4 4.9	5,664 6.4 4,968 5.6	Automobile repairing Brick and burnt-clay ballast		- 11	7 1.345 0	3 379 0.4 742 0.8
Fetroremil and gristmill products Flour-mill and gristmill products Smelting and refining, zinc. Oil and cake, cottonseed. Foundry and machine-shop products	11 51	2,272 7. 930 3. 1 717 5.	2 18,907 8 13,510	37.5 2 12.4 4.9 4.7 3.4	2,575 2.9 7,257 8.2	Confectionery Mineral and Carbonated waters		79 156	1,292	1.3 742 0.6 0.3 515 0.6 0.3 392 0.4
Oil and cake, cottonseed. Foundry and machine-shop products	3. 114	2,12	9 11 20	2.0	3,088 3.3 994 1.			36 92	. 1), 3 J
ather bakery products.	1 7	3 11 223 1 4	0 7,718	1 1	1				0.3 700	350 0.4
		0 1,415 4	.8 7,705	1.9	5,522 6.	Copper, tin, and sheet-iron work Mattresses and spring beds Brooms, from broom corn Marble and stone work		32 110 48 117	0.4 688	0.2 383 0.2
and periodical shop construction	n-	2 2,687	6,149	1.5	4,094 4.	6 Brooms, from the Work		3 42 13 295	0.1 0.25	0.2 136 0.2 0.1 414 0.5 0.1 188 0.2
and repairs	/	45 1 947	1)	1	9 839 3	Oil, mineral and composite		13 295 4 69		0.1 188 0.2 20.5 10,942 12.3
- Jerofe		15 1 831	$2.8 \parallel 3.5\%$	0,9	2,530	Smirts.		#**		
Lumber and timber products. Ies, manufactured. Lumber, planing-mill products, I including planing mills connectively with commills.	iot	10	0.15	ه م ا م	1.548	7 All other industrial from the possibility of disclosing the these industries the most important a			duel establishr	nents are a number
including planing mills connect with sawmills		56 546	1,9 3,10		1	the possibility of disclosing the	operati	ons of indivi following: "	Automobiles";	"cement", tota
WILLI SE WILLIAM			not be sho	wn ser	parately wit	hese industries the most important			*	

LAmong the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are a number having products in excess of some for which figures are shown in the table. Of these industries the most important are the following: "Automobiles"; "cement"; "cordage and twine"; "slaughtering and meat packing"; and "smelting and refining, lead."

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

TABLE 4.—PER	SON	15 1511.0					TURING INDUSTRIES:		}		Fe-	PER C	PAI.
				Fe-	OF TO	TAL.	CLASS.	Cen- sus year	Lorar.	Male.	male.	Male.	Fe- male
	cen- sus rear.	Total.	Male.	male.	Male.	Fe- male.			-		1 215	71.8	28
	1919	38,314 22,700	35,134 21,295 17,071	3,180 1,405	91.7 93.8 94.7	8.3 6.2 5.3	Clerks and other subordinatesa employees	191 191 190	4 1,088	3,100 1,353 1,059	1,215 335 202	80.2 84.0	16
All classes	1914 1909 1919	I	17,071 4,388 3,493	963 108 76	:\ <u></u>	-	Wage earners (average number	r) 19 19	14 17,44	27,648 16,449 12,46	1 855	93.7 94.8 94.8	31
	1914 1909 1919	3,000	3,547	83	-1		to woors of age and over	1.	29,34	7 27,50 9 16,32	8 1,839	93, 94, 5, 94,	3 I
Proprietors and firm numbers	1914	2,698	2,244 2,394 2,628	1	97.	1			919 13,02	56 1	38 1 29 1	8 88. 5 96. 3 97	536
Salaried officers of corporations	. 1919 1914 190	4 500	60 35 27	8	6 97.	9 2	Under 10 years of ages		914 1	23 1	20	g 97	
Superintendents and managers.	191 191 190	4 (0)	1,53 74 8	16	3 99 4 99 7 98	5 0.	5 1						

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

en e		Wage	PER C	ENT OF T	OTAL.			Wage	PER CE	NT OF T	OTAL.
INDUSTRY.	Cen- sus year.	earners (average num- ber).	16 year and	s of age over.	Un- der 16 years of	Industry.	Cen- sus year.	earners (aver- age num-	16 year and	s of age over.	Un- der 16 years
			Male.	Female.	age.			ber).	Male.	Female.	of age.
All industries	1919 1914 1909	29, 503 17, 443 13, 143	93. 2 93. 6 93. 9	6. 2 5. 7 5. 1	0.5 0.8 0.9	Lumber and timber products	1919 1914	1,947 2,245	99. 9 100. 0		0.1
Bread and bakery products	1919 1914	993 697	68. 7 75. 6	30. 1 23. 8	1.2	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.	1919 1914	546 372	99.8 98.9	0.2 1.1	
Brick and burnt-clay ballast	1919 1914	628 402	99. 8 99. 8	0, 2	(1) 0. 2	Oil and cake, cottonseed	1919 1914	930 851	99.8 100.0	0.2	:::::
Cars and general shop construction and repairs by steam-railroad companies.	1919 1914	2,687 1,718	99.8 99.8	0. 2 0. 2		Petroleum, refining.	1919 1914	4,612 516	99.7 100.0	0.1	0.2
Flour-mill and gristmill products	1919 1914	958 700	96.6 100.0	2.0	1.5	Printing and publishing, book and job	1919 1914	505 292	73.9 79.5	25.3 18.2	0.8 2.4
Foundry and machine-shop products 2	1919 1914	1,737 785	99.3 99.6	0.3 0.1	0. 4 0. 3	Printing and publishing, newspapers and periodicals.	1919 1914	1,415 1,318	83. 4 79. 6	15.0 13.5	1.6 6,9
Glass	1919 1914	1,692 1,270	88.9 94.3	10. 4 5. 7	0.7 0.1	Smelting and refining, zinc	1919 1914	2,272 1,641	100.0 100.0	(1)	
Ice, manufactured	1919 1914	831 528	96. 0 98. 9	0.5 0.4	3. 5 0. 8	All other industries	1919 1914	7, 750 4, 108	86. 8 87. 0	12.7 12.4	0.6 0.6

¹ Less than one-tenth of 1 per cent.

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

					AVERA	LGE NUM	BER OF	WAGE EA	RNERS 1	IN MAN	UFACTU	RING IN	DUSTRI	es.	 -			
3 3 10	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	into	1.42	1 37 1 37 1 32	Total.			16 ye	ars of ag	e and o	ver.	*	Und	ler 16 ye	ars of	VAL	UE OF PRODUC	TS.
. :		r x.	111		10081.			Male.			Female			age.				
1 3		1 24		1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Ardin	ore] VI	, 13	305 246			279 236			25 10			1			\$4,965,622 1,905,575		
Chick Enid	asha			548 478	337 283	364 303	534 414	326 252	356 275	11 64	11 30	5 28	3	1	3	4,598,973 13,073,672	\$1,719,676 2,610,533	\$1,866,95 2,453,18
Musk	rieester ogee ioma City	_ :		244 149 1,218 4,375	185 171 828 2,226	282 180 381 1,398	181 139 1,128 3,615	137 160 751 1,904	247 164 360 1,245	62 9 89 755	32 9 73 316	18 16 15 145	1 1 1 5	16 2 4 6	17 6 8	3,330,365 1,529,357 8,402,888 69,970,788	853, 485 573, 511 2, 754, 811 20, 725, 811	1,442,79, 451,23 2,279,15 7,867,88
Sapul Shaw	ılgee: pa nee	 		455 552 1,114 1,749	433 845 845	806 462	434 516 1,028 1,627	407 728 801	730 428	21 35 82 110	15 102 40	73 25	1 4 12	11 15 4	3 9	3,991,231 2,197,083 5,742,944 14,050,073	604,457 2,597,965 3,868,326	1,940,82 1,562,64

TABLE 7.—WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

ad 12 151		NUMBER.1	1.184	PER CE	NT OF MA	XIMUM.			NUMBER.1		PER CEN	T OF MA	XIMUM.
MONTH.	1919	1914	1909	1919	1914	1909	MONTE.	1919	1914	1909	1919	1914	1909
Jamary. February March. April. May June	28,279 28,209 28,518 27,897 28,236 28,020	17, 365 17, 176 17, 164 17, 493 17, 807 17, 334	11, 826 11, 788 12, 237 12, 285 12, 518 12, 905	87. 4 88. 4	96. 0 95. 0 94. 9 96. 7 98. 4 95. 8	80. 7 80. 4 83. 5 83. 8 85. 4 88. 0	July	28,648 30,096 30,810 31,482 31,582 32,259	17, 232 16, 902 17, 398 18, 088 17, 911 17, 446	13,153 13,465 13,826 14,659 14,551 14,505	88. 8 93. 3 95. 5 97. 6 97. 9 100. 0	95. 3 93. 4 96. 2 100. 0 99. 0 96. 5	89. 7 91. 9 94. 3 100. 0 99. 3 98. 9

The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by bold-faced figures, minimum by ttalic figures.

² Includes "iron and steel, welding."

MANUFACTURES—OKLAHOMA.

TABLE 8.-WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES, AND FOR CITIES: 1919.

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

	Aver-		NUMBE	R EMPLO	YED ON	15тн оғ	THE MO	ONTH OR	NEARES	T REPRE	SENTATI	VE DAY.		Per
INDUSTRY AND CITY.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	Au- gust.	Sep- tember.	Octo- ber,	Novem ber.	Decem- ber.	mini- mum is of maxi- mum.
AI Industries	29,503	28,279	28,209	28,518	27,897	28, 236	28,020	28,648	30,096	30,810	31,482	31,582	32,259	86. 5
	27,646	26,556	26,522	26,825	26,208	26, 470	26,217	26,933	28,284	28,827	29,347	29,443	39,120	87. 0
	1,857	1,723	1,687	1,693	1,689	1, 766	1,803	1,715	1,182	1,983	2,135	2,139	2,139	78. 9
Bread and other bakery products. Brick and burnt-clay ballast. Cars and general shop construction and repairs by steam-railroad companies.	993 628 2,687	887 846 2,677	897 502 2,688	917 543 2,676	910 618 2,472 856	955 710 2,477	1,019 689 2,491	951 706 2,588	980 758 2,638	1,058 711 2,649	1,074 679 2,891	1,126 641 2,985 1,084	1,142 633 3,012	77. 7 45. 6 82. 1
Flour-mill and gristmill products	958 1,717 1,692 831 1,947	911 1,462 1,303 469 1,883	1,417 2,142 487 1,889	1,525 2,235 559 1,892	1,550 2,290 712 1,927	768 1,631 1,971 895 1,884	1,688 1,400 1,081 1,506	989 1,768 987 1,294 1,786	1,098 1,865 1,033 1,338 1,960	1,092 1,941 1,502 1,172 1,929	1,070 1,930 1,713 827 2,132	1,933 1,653 590 2,207	1,089 1,894 2,068 548 2,309	69. 5 73. 0 43. 0 35. 1 67. 8
Lumber, planing-mill products, not including planing mills connected with sawmills	946	394	403	454	454	486	600	623	644	665	615	598	616	59. 2
	930	1,379	986	801	329	287	366	424	519	964	1,672	1,733	1,700	16. 6
	4,612	4,482	4,880	4,421	4,464	4,560	4,573	4,677	4,823	4,770	4,699	4,714	4,781	90. 8
Printing and publishing, book and job. Printing and publishing, newspapers and periodicals Emelting and refining, zine. All other industries.	505 1,415 2,272 7,770	1,348 2,956 7,301	492 1,335 2,769 6,926	499 1,343 2,457 7,320	516 1,370 2,057 7,365	497 1,378 2,008 7,734	492 1,387 2,000 7,896	503 1,411 1,972 7,969	516 1,440 2,149 8,335	514 1,486 2,032 8,325	513 1,503 2,021 8,143	511 1,492 2,312 8,003	526 1,487 2,531 7,923	91. 4 88. 8 66. 7 83. 1
Industries showing large proportion of females. Bread and other bakery products	301	272	278	285	278	305	330	278	278	298	324	346	340	78.6
	179	166	181	202	192	189	193	117	123	149	201	194	241	48.5
	128	126	123	128	135	127	123	126	136	123	127	127	135	90.4
	214	205	209	204	213	207	211	213	217	218	219	226	226	90.3
Total for cities	11,433	10,581	10,311	10,770	10,560	10,897	11,288	11,689	11,901	12,083	12,417	12,315	12,384	83.0
	10,150	9,398	9,149	9,581	9,370	9,659	10,050	10,425	10,613	10,718	10,981	10,891	10,965	83.3
	1,283	1,183	1,162	1,189	1,190	1,238	1,238	1,264	1,288	1,365	1,436	1,424	1,419	80.9
Ardmore	305	296	230	280	250	277	269	328	348	365	380	343	364	60. 5
	280	269	202	206	208	254	247	307	325	342	352	313	335	57. 4
	25	27	28	24	22	23	22	<i>21</i>	23	23	28	30	29	70. 0
Bartlesville Males Females	246	203	199	213	222	240	263	266	269	274	271	262	270	72.6
	236	193	189	202	211	229	251	255	260	267	264	252	259	70.8
	10	10	10	11	11	11	12	11	9	7	7	10	11	58.3
CHICKASHA Males Females.	548	545	555	566	502	478	506	531	545	540	627	588	593	76. 2
	537	537	546	557	492	466	494	519	533	528	615	576	581	75. 8
	11	8	9	9	10	12	12	12	12	12	12	12	12	66. 7
ENID	478	388	394	397	425	447	455	485	540	576	569	548	512	67. 4
	414	345	351	354	372	393	401	422	459	483	462	480	446	71. 4
	64	43	43	43	53	54	54	63	81	93	107	68	66	40. 2
GUTHRIE Males. Females.	244	245	234	242	243	197	200	226	278	271	274	266	252	70. 9
	182	187	175	180	177	137	140	161	210	205	212	206	194	64. 6
	62	58	59	62	66	60	60	65	68	66	62	60	58	85. 3
MCALESTER. Males. Females.	149	150	94	91	108	130	151	172	197	182	176	169	168	46. 2
	140	141	88	85	99	121	143	164	187	172	168	156	158	44. 4
	9	9	6	8	9	9	8	8	10	10	8	13	10	46. 2
MUSKOGEE. Males. Females.	1,218	1,124	1,192	1,171	1,176	1,176	1,179	1,207	1,203	1,215	1,303	1,317	1,353	83. 1
	1,129	1,046	1,115	1,089	1,089	1,090	1,094	1,123	1,110	1,115	1,203	1,217	1,257	83. 2
	89	78	77	82	87	86	85	84	93	100	100	100	96	77. 0
OKLAHOMA CITY	4,375	4,107	3,985	4,270	4,129	4,220	4,370	4,358	4,505	4,599	4,652	4,645	4,662	85. 4
	3,619	3,366	3,297	3,582	3,453	3,505	3,645	3,627	3,777	3,788	3,799	3,786	3,810	86. 4
	756	741	693	688	676	715	725	731	728	811	853	859	852	78. 7
OKMULGEE	455	578	409	449	455	472	462	500	486	458	445	461	485	75. 6
	434	565	390	416	429	449	441	476	462	447	430	444	461	76. 3
	21	15	19	33	26	23	21	24	24	11	15	17	24	33. 3
Sapulpa	552	501	523	556	554	618	602	599	503	505	579	519	565	81.1
Males	517	470	485	518	516	579	564	555	470	477	544	493	533	81.2
Females.	35	31	38	38	38	39	38	44	33	28	35	<i>26</i>	32	59.1
SHAWNEE. Males. Females.	1,114	1,177	1,065	1,062	939	955	1,013	1,110	1,131	1,157	1,222	1,296	1,263	72. 0
	1,032	1,114	993	990	866	865	944	1,030	1,040	1,066	1,127	1,193	1,158	72. 3
	82	63	72	72	73	70	69	80	91	91	95	103	105	60. 0
TULSA Males Females	1,749	1,467	1,435	1,523	1,577	1,709	1,818	1,907	1,896	1,941	1,919	1,901	1,897	73.8
	1,630	1,367	1,525	1,404	1,458	1,573	1,686	1,786	1,780	1,828	1,805	1,775	1,773	72.5
	119	100	108	119	119	136	132	121	116	113	114	126	124	73.5

TABLE 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

rammin melangga sagang	Con-		IN ESTAB	LISHMENTS	WHERE TI	IE PREVAIL	ING HOUR	OF LABOR	PER WEEF	K WERE—
INDUSTRY AND CITY.	Census year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60
All industries.	1919 1914 1909	29,503 17,443 13,143	917 (2) (2)	915 (2) (3)	11,197 4,369 2,965	717 2,247 303	3,342 2,277 1,949	4,913 687 526	4,326 3,996 4,711	3,176 3,867 2,689
Bread and other bakery products	1919 1914	993 697	(2) 5	275	100 83	55 5	296 283	10 22	159 220	95
Brick and burnt-clay ballast	1919 1914	628 402		15	110		27 49	19	339 353	11:
Cars and general shop construction and repairs by steam-railroad companies.	1919 1914	2,687 1,718	(2)	383 (1)	1,205 748		29 314	1,070 14		64
Flour-mill and gristmill products	1919 1914	958 700	1 (1)	(3)	331 27	1 3	31 30	7	214 252	37 38
Foundry and machine-shop products .	1919 1914	1,737 785	51 (²)	64 (*)	123 56	109	985 215	10 29	395 485	
Hass	1919 1914	1,692 1,270	258 (2)	126 (*)	1,241 856	67 156	258			
ce, manufactured	1919 1914	831 528	(2)	(2)	27 7	18	126 10	149 16	53 41	45 45
Lumber and timber products.	1919 1914	1,947 2,245	(²)	(2)	53 62	- 56 17	18 215	210	1,712 1,335	40
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919 1914	546 372	(2)· 8	(3)	40 62	22	415 166		61 134	i
Oil and cake, cottonseed.	1919 1914	930 851			66		2		67 8	79 84
Petroleum, refining.	1919 1914	4,612 516	(2)	(2)	2,006 1		112 76	1,766 14	814 64	41 36
Printing and publishing, book and job	1919 1914	505 292	(*)	(2)	493 280		9 12			
Printing and publishing, newspapers and periodicals	1919 1914	1,415 1,318	(²) 7	(2) 3	1,109 889	31 50	113 281	138 22	13 68	
Smelting and refining, zinc	1919 1914	2,272 1,641	160		677	1,359		1,435 282		
All other industries	1919 1914	7,750 4,108	325 (*)	(³) ⁴⁰	3,616 1,298	358 657	1,181 366	309 78	999 1,036	95 67
Total for cities.	1919 1914	11,433 6,153	310 (²)	806 (*)	4,943 2,117	529 798	2,088 1,056	1,255 100	802 943	70 1,13
ARDMORE.	1919	305	5	22	116		43	48	34	3
BARTLESVILLE.	1919 1919	246		383	63 54		44 48	14	92 16	3
CHICKASHA	1914	548 337 478	(2)	(*)	225 72		128	25	41 135	11
ENID	1914	283	(3)	(1)	35 163	16 27	39 15	28	106 23	1
GUTHRIB THE STATE OF THE STATE	1919 1914	244 185	(2)	(3)	96	8	12 56	7	9 30	2
MCA1.ESTER	1919 1914	149 171	(3)	(2)	24 56		25	9	16 21	6
MUSKOGEE	1919 1914	1,218 828	(2)	(1) 2	584 157	48	140 370	357 12	63	22
OKLAHOMA CITY	1919 1914	4,375 2,226	(2)	(3)	2,504 600	330 603	594 521	173 34	182 256	21
OKMULGEE	1919	455	1 3	l	137 68	38	106	145	66 14	
SAPULPA	1919 1914	552 433	(2)	(3)	46	74	6 44		29 15	
SHAWNEE	1919 1914	1,114 845	(2)	(*)	908 725	5	18	8	9	
	1919	1,749 845	54	1 1 1 1	250 177	86	870	185	174 414	

¹ Includes 48 and under for 1914 and 1909.

² Corresponding figures not available.

Includes "iron and steel, welding."

MANUFACTURES—OKLAHOMA.

TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

	TO	TAL.						EST	ABLISH	MENT	S EMPLO	OYIN	G			, , , , ,			
INDUSTRY AND CITY.	ents.	eraners (average number).	No wage earn- ers.			eari	o 20 age ners, isive.	ear	to 50 age ners, asive.	rae rae	to 100 rage rners, usive.	ea	to 250 wage rners, lusive.	ea	to 500 vage rners, lusive.	ear	o 1,000 vage ners, usive.	W	er 1,000 rage ners.
·	Establishments.	Wage erane num	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage eraners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
All industries	2,445	29,503	427	1,409	2,956	374	4,009	136	4,295	46	3,168	37	6, 209	11	3,323	1	818	4	4,725
Bread and other bakery products Brick and burnt-clay ballast	288 22	993 628	52	208	436	24 9	195 155	3 7	90 245	3	218			1	272				
Cars and general shop construction and repairs by steam-railroad companies Flour-mill and gristmill products	12 227	2,687 958	92	99	175	26	265	4 6	148 212	1 4	83 306	2	312	4	1,326	1	818		
Foundry and machine-shop products	114 16 115 145	1,717 1,692 831 1,947	7 3	52 1 68 123	148 4 180 223	31 39 12	350 388 139	15 1 6 3	471 29 152 123	8 6 2 2	552 424 111 104	1 8 	196 1, 235	 i	291			 	1,067
Lumber, planing-mill products, not including planing mills connected with sawmills Oil and cake, cottonseed Petroleum, refining	56 51 66	546 930 4,612	23	30 8 7	67 31 22	17 19 24	190 240 275	4 24 18	109 659 651	2 ₅	180 394	 10	1,776	 i	291			 1	1,203
Printing and publishing, book and job Printing and publishing, newspapers and periodicals. Smelting and refining, zinc. All other industries	97 410 11 815	505 1,415 2,272 7,770	23 138 109	53 227 530	137 432 1,091	14 38 1 120	150 387 14 1,261	7 3 35	218 113 1,075	 1 12	59 737	3 6 7	424 1,115 1,151	 4	1,143			 2	2,455
Total for cities	745	11,433	80	371	911	192	2,077	62	1,891	24	1,648	10	1,518	4	1,299	1	818	1	1,271
ARDMOREBARTLESVILLE CHICKASHA ENID	35 32 24 51	305 246 548 478	2 2 1 7	20 18 15 22	46 43 35 63	9 9 5 18	94 109 75 192	3 3 2 3	94 94 56 100	1	71	····i	123	i	382				
GUTHRIE. MCALESTER. MUSKOGEE. OKLAHOMA CITY.	36 20 82 227	244 149 1,218 4,375	7 2 9 34	19 9 45 101	42 21 109 267	8 7 19 49	92 79 171 544	1 2 4 30	26 49 117 934	1 2 8	84 147 562	2 3	318 525	 i 1	356 272			····i	1,271
OKMULGEE	29 29 45 135	455 552 1,114 1,749	1 3 4 8	15 17 28 62	32 39 54 160	8 6 8 46	91 70 69 491	2 1 3 8	64 28 117 212	2 1 9	155 56 573	1 1 2	113 126 313	i	289	ī	818		

TABLE 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.		UMBER (BLISHME			GE NUMB SE EARNE		VAI	LUE OF PRODU	CTS.	VALUE AD	DED BY MANU	JFACTURE.
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes	2,445	2,518	2,310	29,503	17,443	13,143	\$401,362,869	\$102,005,693	\$53,682,405	\$ 88,757,040	\$31,035,943	\$19,529,511
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	710 848 541 215 59 72	1,403 707 256 121 17 14	1,182 727 295 } 102 4	397 1,825 4,217 6,087 3,904 13,073	1,618 2,576 3,065 3,065 7,233 2,951	1,668 2,863 3,908 4,406 298	1, 846, 360 8, 819, 984 24, 158, 638 47, 539, 996 40, 090, 878 278, 908, 413	3,168,934 6,824,096 10,885,671 25,811,975 11,972,363 43,342,654	2,675,597 7,194,668 13,057,308 } 25,870,562 4,884,270	1,151,348 4,893,614 11,360,589 16,810,315 10,968,092 43,573,082	2,012,505 3,783,033 4,718,895 } 11,361,582 9,159,928	1,792,560 4,142,194 5,877,865 7,001,117 715,775
							PER CENT DI	STRIBUTION.				ur est h
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.	29.0 34.7 22.1 8.8 2.4 3.0	55.7 28.1 10.2 4.8 0.7 0.6	51. 2 31. 5 12. 8 4. 4 0. 2	1.3 6.2 14.3 20.6 13.2 44.4	9.3 14.8 17.6 41.5 16.9	12.7 21.8 29.7 33.5 2.3	0.5 2.2 6.0 11.8 10.0 69.5	3.1 6.7 10.7 25.3 11.7 42.5	5.0 13.4 24.3 48.2 9.1	1:3 5.5 12.8 18.9 12.4 49.1	6. 5 12. 2 15. 2 36. 6 29. 5	9.2 21.2 30 35.8 3.7

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

n de la capación de l	1	NUI ESTAB	MBER O	F NTS.		ERAGE I			, VA	LUE OF PRO	overs.		VALUE AI	DED BY M	ANUFAC	TURE.
INDUSTRY AND VALUE OF PRODUCT.	1919	1914		cent oution.	1919	1914		cent oution.	1919	1914		cent oution.	1919	1914		cent
			1919	1914			1919	1914		,	1919	1914		1011	1919	1914
BREAD AND OTHER BAKERY PRODUCTS	288	342	100.0	100.0	993	697	100.0	100.0	\$8,128,632	\$ 2,773,811	100.0	100.0	\$3,088,390	\$1, 193, 015	100, 0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over	53 137 90 8	203 120 1 19	18, 4 47, 6 31, 2 2, 8	59. 4 35. 1 5. 6	17 189 379 408	109 242 1 346	1.7 19.0 38.2 41.1	15. 6 34. 7 49. 6	144, 904 1, 518, 685 3, 559, 976 2, 905, 067	515, 820 1,076, 800 1,181,191	1.8 18.7 43.8 35.7	18. 6 38. 8 42. 6	63, 835 594, 265 1, 220, 441 1, 209, 849	235, 037 467, 571 1 490, 407	2.1 19.2 39.5 39.2	19,7 39,2 41,1
FLOUR-MILL AND GRISMILL PRODUCTS	227	253	100.0	100.0	958	700	100.0	100.0	49,843,800	16,688,690	100.0	100.0	5,663,705	2,321,724	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.	53 72 57 21 9 15	101 72 48 24 5 3	23. 3 31. 7 25. 1 9. 3 4. 0 6. 6	39, 9 28, 5 19, 0 9, 5 2, 0 1, 2	3 25 116 126 91 597	34 79 120 2 367	0.3 2.6 12.1 13.2 9.5 62.3	4. 9 11. 3 17. 1 52. 4	141, 410 786, 393 2, 784, 409 4, 935, 868 5, 655, 064 35, 560, 656	264, 261 782, 774 1, 940, 908 5, 946, 559 3, 957, 957 3, 796, 231	0.3 1.6 5.5 9.9 11.3 71.3	1. 6 4. 7 11. 6 35. 6 23. 7 22. 7	25, 981 129, 913 432, 538 661, 090 821, 301 3, 592, 882	65, 436 163, 306 322, 945 21, 321, 452 448, 585	0.5 2.3 7.6 11.7 14.5 63.4	2.8 7.0 13.9 56.9
FOUNDRY AND MACHINE-SHOP PRODUCTS 3	124	99	100.0	100.0	1,737	785	100.0	100.0	13,608,577	2, 856, 571	100.0	100.0	7, 331, 666	1,341,946	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 and over.	21 39 33 25 6	38 31 22 28	16. 9 31. 5 26. 6 20. 2 4. 8	38. 4 31. 3 22. 2 8. 1	11 122 304 864 436	50 164 230 2 341	0.6 7.0 17.5 49.7 25.1	6, 4 20, 9 29, 3 43, 4	65, 474 446, 141 1,590, 789 5,632, 292 5,873,881	94, 875 300, 855 871, 197 21, 589, 644	0. 5 3. 3 11. 7 41. 4 43. 2	3.3 10.5 30.5 55.6	48, 431 320, 561 1, 014, 825 2, 888, 374 3, 059, 475	74, 381 204, 903 420, 658 2 642, 604	0.7 4.4 13.8 39.4 41.7	5. 5 15. 3 31. 3 47. 9
ICE, MANUFACTURED	115	97	100.0	100.0	831	528	100.0	100.0	3, 574, 431	1,604,146	100.0	100.0	2, 530, 356	1, 202, 018	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000.	13 51 42 9	20 55 22	11. 3 44. 3 36. 5 7. 8	20, 6 56, 7 22, 7	13 150 400 268	17 220 291	1. 6 18. 1 48. 1 32. 3	3. 2 41. 7 55. 1	37, 160 590, 555 1, 774, 504 1, 172, 212	44, 566 643, 636 915, 944	1. 0 16. 5 49. 6 32. 8	2. 8 40. I 57. I	24, 471 396, 968 1, 292, 783 816, 134	29, 866 474, 750 697, 402	1. 0 15. 7 51. 1 32. 3	2.5 39.5 58.0
OIL AND CAKE, COTTONSEED	51	60	100.0	100.0	930	851	100.0	100.0	18, 907, 312	7,589,813	100.0	100.0	2, 575, 169	1,306,410	100.0	100.0
Less than \$100,000. \$100,000 to \$500,000. \$500,000 and over.	28 15	25 35	15. 7 54. 9 29. 4	41. 7 58. 3	45 470 415	188 663	4.8 50.5 44.6	22. 1 77. 9	359, 577 8, 191, 228 10, 356, 507	1,128,143 6,461,670	1.9 43.3 54.8	14. 9 85. 1	54,056 1,289,537 1,231,576	200, 326 1, 106, 084	2. 1 50. 1 47. 8	15, 4 84. 7
PETROLEUM, REFINING	66	23	100.0	100.0	4,612	516	100.0	100.0	150, 673, 458	13,014,372	100.0	100.0	23, 523, 736	3, 423, 635	100.0	100.0
Less than \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	6 14 14 32	6 9 3 5	9. 1 21. 2 21. 2 48. 5	26, 1 39, 1 13, 0 21, 7	28 116 285 4,183	29 2 270 217	0.6 2.5 6.2 90.7	5. 6 52, 3 42, 1	206, 567 4, 592, 827 10, 026, 902 135, 847, 162	305, 091 3, 349, 212 1, 817, 099 7, 542, 970	0.1 3.0 6.7 90.2	2.3 25.7 14.0 58.0	31, 427 236, 164 1, 538, 976 21, 717, 109	79,428 21,468,562 1,875,645	0. 1 1. 0 6. 5 92. 3	2.3 42,9 54.8
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS	410	542	100.0	100, 0	1,415	1,318	100.0	100.0	7,704,823	3, 237, 734	100.0	100.0	5,521,909	2,532,255	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 and over.	209 154 38 6 3	421 103 13 5	51. 0 37. 6 9. 3 1. 5 0. 7	77. 7 19. 0 2, 4 0. 9	105 341 371 224 374	413 382 218 305	7, 4 24, 1 26, 2 15, 8 26, 4	31. 3 29. 0 16. 5 23. 1	529, 285 1, 424, 481 1, 606, 310 1, 234, 721 2, 910, 026	859, 052 816, 717 615, 525 946, 440	6. 9 18. 5 20. 8 16. 0 37. 8	26. 5 25. 2 19. 0 29. 2	410, 543 1, 085, 920 1, 238, 945 920, 565 1, 865, 936	692, 182 643, 529 459, 260 737, 284	7. 4 19. 7 22. 4 16. 7 33. 8	27. 3 25. 4 18. 1 29. 1

¹ Includes the group "\$100,000 to \$500,000."

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919.

111111111111111111111111111111111111111															
	estab-	EAR	GE VERS.	VALUE PRODUC		VALUE AD MANUFAC		d Valenting	estab- nts.	WA EARN	GE TERS.	VALUE PRODUC		VALUE ADD MANUFACI	
CITY AND VALUE OR PRODUCT.	Number of Ishment	Average num- ber.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.	CITY AND VALUE OF PRODUCT.	Number of establishments.	Aver- age num- ber.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ARDMORE	35	305	100.0	\$4,965,622	100.0	\$1,897,682	100.0	GUTHRIE	36	244	100.0	\$3,330,365	100.0	\$ 527,378	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000	7 8 16	6 16 124	2.0 5.2 40.7	27, 591 85, 774 796, 056	0, 6 1, 7 16, 0	15, 660 52, 357 396, 789	1. 1 3. 7 28. 4	Less than \$5,000 \$5,000 to \$20,000 \$20,000 and over	14 10 12	12 25 207	4. 9 10. 2 84. 8	30, 997 112, 439 3, 186, 929	0. 9 3. 4 95. 7	22, 102 54, 561 450, 715	4.2 10.3 85.5
\$100,000 and over	4	159	52.1	4, 056, 201	81. 7	932, 876	66. 7	McAlester	20	149	100.0	1,529,357	100.0	469,538	100.0
BARTLESVILLE	32	246	100.0	1,905,575	100.0	1,022,868	100.0	Less than \$5,000 \$5,000 to \$20,000	4	7	0.7	9,160 35,072	0.6 2.3	5, 202 18, 396	3.9 58.2
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$500,000	6 8 18	3 14 229	1. 2 5. 7 93. 1	17, 495 87, 451 1, 800, 629	0.9 4.6 94.5	6,312 48,413 968,143	0.6 4.7 94.7	\$20,000 to \$100,000 \$100,000 to \$500,000	9 3 82	102 39 1, 218	68. 5 26. 2	458, 564 1, 026, 561 8, 402, 888	30. 0 67. 1 100. 0	273, 210 172, 730 3, 027, 312	36.8 100.0
Спісказна	24	548	100.0	4, 598, 973	100.0	1, 223, 018	100.0	Less than \$5,000	$=$ ${10}$	6	0.5	34,057	0.4	21,962 249,272	0.7 8.2
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over	4 8 7	3 23 51 471	0. 5 4. 2 9. 3 85. 9	14, 539 83, 555 325, 610 4, 175, 269	0.3 1.8 7.1 90.8	7,845 43,647 122,169 1,049,357	0.6 3.6 10.0 85.8	\$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over	36 24 6 6	90 148 210 764	7. 4 12. 2 17. 2 62, 7	421,371 981,053 1,495,287 5,471,120	11.7 17.8 65.1	497, 108 772, 049 1, 486, 921	16.4 25.5 49.1
ENID	51	478	100.0	13,073,672	100.0	2, 223, 029	100.0	OKLAHOMA CITY Less than \$5,000	39	4,375	0.3	100,860	100.0	11,326,614	0.6
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over	9 14 17 5 6	3 40 130 00 245	0.6 8.4 27.2 12.6 51.3	25, 171 145, 713 847, 033 1, 015, 044 11, 040, 711	0. 2 1. 1 6. 5 7. 8 84. 5	17,743 85,440 398,989 253,492 1,467,305	0.8 3.8 17.9 11.4 66.0	\$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	67 69 38 5	155 619 1,071 185 2,330	3. 5 14. 1 24. 5 4. 2 53. 3	808, 679 3, 526, 405 8, 025, 937 3, 596, 106 53, 912, 801	1.2 5.0 11.5 5.1 77.1	516,760 1,775,615 3,210,037 596,144 5,162,098	4.6 15.7 28.3 5.3 45.6

² Includes the group "\$500,000 to \$1,000,000."

³ Includes "iron and steel, welding."

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919—Continued.

	estab- its.	WA EARN		VALUE PRODUC		VALUE ADI MANUFAC			f estab- ots.	WA EARN		VALUE PRODUC		VALUE ADD MANUFACT	
CITY AND VALUE OF PRODUCT.	Number of lishmen	Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.	CITY AND VALUE OF PRODUCT.	Number of lishmen	Aver- age num- ber.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ORMULGEE	29	455	100.0	\$3,991,231	100.0	\$986,131	100.0	Shawnee	45	1,114	100, 0	\$5,742,944	100.0	\$2, 188, 943	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over	6 7 8 8	4 15 79 357	0.9 3.3 17.4 78.5	18, 886 97, 828 355, 062 3, 519, 455	0. 5 2. 5 8. 9 88. 2	12,074 52,974 171,874 749,209	1. 2 5. 4 17. 4 76. 0	Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over	12 19 9 5	9 45 95 965	0. 8 4. 0 8. 5 86. 6	33, 223 197, 100 467, 979 5, 044, 642	0. 6 3. 4 8. 1 87. 8	17,640 110,939 288,349 1,772,015	0. 8 5. 1 13. 2 81. 0
SAPULA	29	552	100.0	2,197,083	100.0	1, 116, 038	100.0	Tulsa	135	1,749	100.0	14,050,073	100.0	7, 393, 008	100.0
Less than \$5,000	3 13 9 4	1 25 71 455	0, 2 4, 5 12, 9 82, 4	12,530 143,678 435,342 1,605,533	0.6 6.5 19.8 73.1	87,400 245,359	0. 8 7. 8 22, 0 69. 4	Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 to \$500,000 \$500,000 and over	18 37 49 23 8	12 81 393 649 614	0.7 4.6 22.5 37.1 35.1	48, 477 415, 429 2, 300, 775 4, 402, 995 6, 882, 397	0.3 3.0 16.4 31.3 49.0	33,575 239,209 1,199,142 2,211,329 3,709,753	0.5 3.2 16.2 29.9 50.2

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

						·					7							
		NUI	MBER	OF.	ΑVI	ERAGE :	NUMBEI	R OF W	AGE EA	RNERS	•		. v	ALUE OF PRO	DUCTS.			
INDUSTRY AND CITY.	Cen- sus year.	OWN	ED B				ablishn ned by		Per c	ent of	total.		Of estab	lishments ow	ned by—	Per co	ent of t	total.
	y can.	Indi- vid- uals.	pora-		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.
All industries	1919 1914 1909	1,264 1,533 1,257	708 549 501	473 436 552	29, 503 17, 443 13, 143	2, 891 3, 008 3, 113	25, 267 13, 037 8, 225	1,345 1,398 1,805	9.8 17.2 23.7	85.6 74.7 62.6	4.6 8.0 13.7	\$401,362,869 102,005,693 53,682,405	\$22,749,408 8,048,451 7,699,080	\$367, 461, 271 88, 689, 116 89, 390, 339	\$11,152,190 5,268,126 6,592,986	05.7 7.9 14.3	91, 6 86, 9 73, 4	2, 8 5, 2 12, 3
Bread and other bakery products.	1919 1914	225 280	12 5	51 57	993 697	464 366	412 213	117 118	46. 7 52. 5	41.5 30.6	11.8 16.9	8, 128, 632 2, 773, 811	4,206,377 1,648,706	2,819,655 539,469	1,102,600 585,636	51.7 59.4	34.7 19.4	13.6 21.1
Flour-mill and gristmill products.	1919 1914	93 117	76 66	58 70	958 700	57 97	832 508	69 95	5. 9 13. 9	86. 8 72. 6	7.2 13.6	49, 843, 800 16, 688, 690	1,997,989 1,086,923	44, 485, 782 14, 022, 694	3,360,029 1,579,073	4. 0 6. 5	89.3 84.0	6, 7 9, 5
Foundry and machine- shop products.1	1919 1914	48 48	56 32	20 19	1,737 785	279 199	$^{1,390}_{492}$	68 94	16, 1 25, 3	80.0 62.7	3.9 12.0	13, 608, 577 2, 856, 571	2,132,111 687,347	11, 108, 731 1, 954, 653	367,735 214,571	15.7 24.1	81.6 68.4	2.7 7.5
fee, manufactured	1919 1914	15 10	79 69	21 18	831 528	30 25	736 435	65 68	3.6 .4.7	88. 6 82. 4	7.8 12.9	3,574,431 1,604,146	111,862 76,958	3, 191, 482 1, 336, 356	271,087 190,832	3.1 4.8	89. 3 83. 3	7.6 11.9
Oil and cake, cottonseed	1919 1914	1 5	45 52	5 3	930 851	₂₁ .	873 823	² 57	2.5	93.9 96.7	6, 1 0. 8	18,907,312 7,589,813	95,079	17, 805, 814 7, 462, 185	21,101,498 32,549	1.3	94.2 98.3	5.8 0.4
Petroleum, refining	1919 1914	1	65 23		4,612 516		34,612 516			100.0 100.0		150, 673, 458 13, 014, 372		² 150, 673, 458 13, 014, 372			100. 0 100. 0	
Printing and publishing, newspapers and peri- odicals.	1919 1914	273 396	60 74	77 72	1,415 1,318	386 541	885 642	144 135	27.3 41.0	62. 5 48. 7	10, 2 10, 2	7,704,823 3,237,734	1,627,982 1,096,261	5,314,538 1,808,350	762,303 333,123	21. 1 33. 9	69. 0 55. 8	9. 9 10. 3
Total for cities	1919 1914	321 281	295 201	129 109	11, 433 6, 153	1,188 746	9,815 5,003	430 404	10. 4 12. 1	85. 8 81. 3	3.8 6.6	133, 758, 571 36, 308, 575	11, 116, 860 2, 366, 804	119, 382, 901 32, 386, 701	3,258,810 1,555,070	8.3 6.5	89.3 89.2	2. 4 4. 8
ARDMORE	1919	17	11	7	305	70	215	20	23.0	70.5	6.6	4,965,622	353, 489	4, 434, 204	177,929	7.1	89.3	3.6
BARTLESVILLE	1919	17	10	5	246	102	131	13	41.5	53.3	5.3	1, 905, 575	848, 907	922,678	133,990	44.5	48, 4	7.0
CHICKASHA	1919 1914	9 15	11 8	4 6	548 337	30 19	510 293	8 25	5. 5 5. 6	93.1 86.9	1.5 7.4	4,598,973 1,719,676	110,903 63,059	4, 418, 830 1, 592, 330	69, 240 64, 287	2. 4 3. 7	96. 1 92, 6	1. 5 3. 7
ENID.	1919 1914	21 16	22 20	8 9	478 283	103 34	358 225	17 24	$\frac{21.5}{12.0}$	74.9 79.5	3.6 8.5	13, 073, 672 2, 610, 533	4, 162, 940 106, 015	8, 848, 585 2, 412, 498	62,147 92,020	31.8 4.1	67. 7 92. 4	0. 8 3. 8
GUTHRIE	1919 1914	22 19	5 6	9 5	244 185	43	3 244 128	14	23. 2	100.0 69.2	7,6	3, 330, 365 853, 485	110,715	³ 3, 330, 365 705, 639	37, 131	13. 0	100.0 82.7	4.4
McAlester	1919 1914	7 16	10 11	3 6	149 171	11 26	125 120	13 25	7.4 15.2	83.9 70.2	8.7 14.6	1, 529, 357 573, 511	117,063 72,657	1,327,198 410,347	85,096 90,507	7.7 12.7	86. 8 71. 5	5. 6 15. 8
Muskogre	1919 1914	34 34	30 33	18 13	1,218 828	105 92	1,072 694	41 42	8.6 11.1	88.0 83.8	3.4 5.1	8, 402, 888 2, 754, 811	605,832 227,467	7,390,868 2,345,000	406, 188 182, 344	7.2 8.3	88. 0 85. 1	4. 8
ORLAHOMA CITY	1919 1914	79 86	109 76	39 33	4,375 2,226	277 202	3,929 1,861	169 163	6.3 9.1	89. 8 83. 6	3.9 7.3	69, 970, 788 20, 725, 811	1,789,793 730,011	66, 994, 890 19, 462, 231	1,186,105 533,569	2.6 3.5	95. 7 93. 9	1.7
Okmulgee	1919	14	10	5	455	33	402	20	7.3	88.4	4.4	3, 991, 231	231,272	8,636,040	123,919	5.8	91.1	3, 1
SAPULPA	1919 1914	16 16	7 7	6 7	552 433	55 45	479 369	18 19	10.0 10.4	86. 8 85. 2	3.3 4.4	2, 197, 083 604, 457	272, 275 102, 387	1,755,204 416,467	169,604 85,603	12. 4 16. 9	79. 9 68. 9	7.7 14.2
Shawnee	1919 1914	23 27	14 11	8	1, 114 845	47 32	1,038 750	29 13	4.2 9.7	93. 2 88. 8	2.6 1.5	5,742,944 2,597,965	191,727 182,719	5,364,571 2,334,728	186,646 80,518	3.3	93.4 89.9	3, 3
TULSA	1919 1914	62 52	56 29	17 22	1,749 845	355 203	1,312 563	82 79	20.3 24.0	75. 0 66. 6	4.7 9.3	14, 050, 073 3, 868, 326	2,432,659 771,774	10,959,468 2,707,461	657,946 389,091	17.3 20.0	78.0 70.0	4.7

¹ Includes "iron and steel, welding."

Includes the group "Individuals."

³ Includes the groups "Individuals" and "All others."

Table 15.—MANUFACTURES, BY POPULATION GROUPS, IN CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

and the second of the second					CITIES	HAVING	A POPULATION	of 10,0	00 OR OVER		THE STATE OU	VING
and the Market of the Committee of the C	Tables of a	A4.	Cen-	Aggregate.	Total.		10,000 to 25	5,000.	25,000 to 10	0,000.	A POPULATION 10,000 OR OV	
			year.	Aggregate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cont of aggregate.	Number or amount.	Per cent of aggre- gate.
Number of places	147,74 47,74 47,7		1919 1914 1909	,	12 9 8		9 6 6		3 3 2			
Population 1		••••••	1920 1915 1910	2, 028, 283 2, 026, 534 1, 657, 155	317, 264 237, 094 168, 866	15.6 11.7 10.2	123, 617 88, 452 79, 383	6. 1 4. 4 4. 8	193, 647 148, 642 89, 483	9.5 7.3 5.4	1,711,019 1,789,440 1,488,289	89.8
Number of establishments		., Est	1919 1914 1909	2, 445 2, 518 2, 310	745 591 486	30. 5 23. 5 21. 0	301 213 251	12.3 8.5 10.9	444 378 235	18. 2 15. 0 10. 2	1,700 1,927 1,824	69. 5 76. 5 79. 0
Average number of wage earn	ers		1919 1914 - 1909	29, 503 17, 443 13, 143	11,433 6,153 4,176	38. 8 35. 3 31. 8	4, 091 2, 254 2, 397	13. 9 12. 9 18. 2	7, 342 3, 899 1, 779	22. 4 13. 5	18,070 11,290 8,967	64. 7 68. 2
Value of products	<u></u>	******	1919 1914 1909	\$401, 362, 869 102, 005, 693 53, 682, 405	\$133, 758, 571 36, 308, 575 19, 864, 676	33.3 35 6 37.0	\$41, 334, 822 8, 959, 627 9, 717, 641	10.3 8.8 18.1	\$92, 423, 749 27, 348, 948 10, 147, 035	1	\$267, 604, 298 65, 697, 118 33, 817, 729	63. 0
Value added by manufacture			1919 1914 1909	88, 757, 040 31, 035, 943 19, 529, 511	32, 901, 559 10, 106, 225 6, 966, 763	37. 1 32. 6 35. 7	11, 154, 625 2, 731, 838 3, 443, 467	12.6 8.8 17.6	21, 746, 934 7, 374, 387 3, 523, 296	23.8	55, 855, 481 20, 929, 718 12, 562, 748	62. 9 67. 4 64. 3

¹ Population of 1920, as of Jan. 1, 1920: 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

Table 16.—PRINCIPAL INDUSTRIES IN CITIES OF 50,000 INHABITANTS OR MORE, WITH PER CENT OF TOTAL FOR STATE: 1919.

	VA	LUE OF	PRODUCTS.		Section 1984 of the Section 1984.	VA.			
CITY AND INDUSTRY.		Per cent of	Increase ov	er 1914.	CITY AND INDUSTRY.	Amount	Per cent of	Increase ov	er 1914.
en e	Amount 1919.	total for the state.	Amount.	Per cent.	ing the same same same and the same	1919.	total for the state.	Amount.	Per cent.
OKLAHOMA CITY.					TUSA, 100 100 100 100 100 100 100 100 100 10			i irra i	
Flour-mill and gristmill products	\$8,752,649 2,845,186	17. 6 35. 0	\$6,007,013 1,996,719	218.8 235.3	Foundry and machine shop products Printing and publishing, newspapers and periodicals	1 377 209	49. 4 17. 9	1	370. 363.
Printing and publishing, newspapers and periodicals. Printing and publishing, book and job Confectionery and ice cream. Tamber, planing-mill products, not includ-	2, 362, 773 1, 409, 474 1, 154, 844	30. 7 56. 2 32. 2	1, 551, 329 962, 470 839, 585	191, 2 215, 3 266, 3	Lûmber, planing-mill products, not in- cluding planing mills connected with	844.744	26. 8 8. 6	552, 214 509, 765	
Lumber, planing-mill products, not includ- ing planing mills connected with saw- mills. Automobiles	809,724	25. 7	594, 522	276.3	Bread and other bakery products. Printing and publishing, book and job. Flour-mill and gristmill products.	l	20.1 (¹)	430, 255 (¹)	(1)
ButterCoffee, roasting and grinding		. , .			u chomby sindental of . The chomby sides and selection of selections are selected selections.	arecentite Le contrar			
Druggists' preparationsOil and cake, cottonseedPetroleum, refining	(G	(1)	(1)	(<u>1</u>)	a je sija se krapanijel vjek Rollijski sjeka krapasi (a bi				.
Saddlery and harness					200 of January ports from		- :		

¹ Relative rank can not be shown without disclosing individual operations.

TABLE 17.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

steers and steelings to be the control of the	NUMBER O	F ENGINES O	R MOTORS.			500 ina			
FOWER.				id i is pals b	Amount.	eran (an)	Per cent distribution.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Primary power, total	5,822	3, 254	2, 265	139, 983	97, 308	71, 139	100.0	100.0	100.0
Owned. Steam Engines. Turbines Internal-combustion engines Water Water wheels and turbines. Water motors Rented Electric Other	22	1, 538 842 (1) (1) 685 11 8 3 1, 716 1, 716	1,407 882 (1) (1) 539 6 5 1 858 858	104, 115 79, 707 72, 723 6, 981 24, 133 275 259 16 35, 868 35, 435 433	87, 035 70, 803 (1) (1) 15, 976 258 253 3 10, 273 10, 068	65, 791 50, 643 (1) (1) 8, 676 472 470 2 5, 348 5, 281 67	74. 4 56. 9 52. 0 57. 0 17. 2 0. 2 0. 2 (2) 25. 6 25. 3 0 3	89. 4 72. 8 16. 4 0. 3 0 3 (2) 10. 6 10. 3 0. 2	92. č 79. č 0. 7 0. 7 (²) 7. £ 7. 4 0. 1
Electric	4,957 3,976 981	2,324 1,716 608	985 858 127	54,605 35,435 19,170	23,760 10,068 13,692	7, 887 5, 281 2, 606	100. 0 64. 9 35. 1	100.0 42.4 57.6	100. 0 67. 0 83. 0

¹ Not reported separately.

² Less than one-tenth of 1 per cent.

TABLE 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

		.,,				
	co	AL.	G-1		G V	
INDUSTRIES AND CITIES.	Anthracite 1 (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).	Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
All industries. 1919. 1914. Per cent of increase. 1914.		478, 734 429, 745 11. 4	37, 409 29, 879 25. 2	3, 163, 152 224, 575 1312. 6	9, 108 (2) (2)	40, 523, 914 24, 078, 701 68. 3
Brick and burnt-clay ballast Cars and general shop construction and repairs by steam-railroad companies Cement. Coke, not including gas-house coke.	1	27, 587 9, 374 86, 156 17, 848	94	11,138 47,030 5,413		1,964,706 1,100,048 2,300,000
Flour-mill and gristmill products.	50	23,504		54,952	1,192	259, 652
Foundry and machine-shop products Glass Lee, manufactured Oil and cake, cottonseed.		923 10 33,460 46,372	4,703	12,817 3,042 69,916 32,454	964 167 343 2,082	400, 901 2, 332, 616 1, 893, 013 394, 025
Petroleum, refining. Slaughtering and meat packing. Smelting and refining, zinc. All other industries.		91, 798 5, 268 102, 005 34, 429	482 31,353 777	2,632,184 241,362 52,844	573 24 110 3,653	11, 847, 807 512, 686 15, 526, 316 1, 992, 144
Total for cities	111	26,367	3,524	534, 836	1,816	3,670,612
ARDMORE BARTLESVILLE. CHICKASHA ENID	24	302 180 3,244 2,553	125 126 134	60,632 35,116 82,786	615 139 201	142, 404 503, 374 1, 711 160, 174
GUTHRIE. MCALESTER. MUSROGEE. OKLAHOMA CITY.		2, 876 6, 669 6, 892	342 675	7,450 103,272 167,922	10 91 202	81, 236 29, 459 325, 353 885, 426
Okmulgee Sapulpa	26	3	360	44,356	125 17	642, 443 252, 813
SHAWNEE TULSA.	4	2,118 1,526	214 1,548	7, 634 25, 668	13 403	198, 585 447, 634

¹ Includes some semianthracite coal.

SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for three of these industries for Oklahoma are here presented.

Petroleum, refining (Table 19).—Measured by value of products, this industry, which in 1909 was eleventh in the state, and third in 1914, now holds first rank, with products constituting in value 37.5 per cent of the total for all manufacturing industries. Among the states it ranks fifth, being exceeded only by New Jersey, Texas, California, and Pennsylvania, in the order named. In 1914 the state ranked eighth in the petroleum refining industry. Table 19 gives the statistics in detail for 1919 in comparison with 1914 and 1909.

The total production of refined oils in 1919, the same including gasoline and naphthas, fuel oils, illumi-

nating oils, and lubricating oils, was 33,200,145 barrels of 50 gallons, as compared with 8,610,533 barrels in 1914, and 792,682 in 1909.

The figures show a quantity increase from 1914 to 1919 of 286 per cent. The ratio increase from 1909 to 1914 was somewhat higher on account of the relatively small production in 1909. Of the total production of refined oils in 1919, fuel oils constituted 49.1 per cent; gasoline and naphthas, 33.4 per cent; illuminating oils, 15.8 per cent; and lubricating oils, 1.7 per cent. In 1914 the distribution percentages were fuel oils, 55.1; gasoline and naphthas, 23.5; illuminating oils, 20.4; and lubricating oils, 1 per cent; whereas in 1909 the percentages were, respectively, 51.6, 15.8, 30.9, and 1.7. Although all classes of refined oils have increased, the distribution percentages show progressive increases for gasoline and naphthas, with decreases for illuminating oils, and for the last semidecade in fuel oils.

² Included in figures for fuel oils.

TABLE 19.—PETROLEUM, REFINING: 1919, 1914, AND 1909.

Property of the second	1919	1914	1909		1919	1914	1909
MATERIALS.			•	PRODUCTS—continued.			
Total cost	\$127,149,722	\$9,590,737	\$ 573,473	Lubricating oils: Gallons.			
Crude petroleum:				Gallons Value Liquid asphaltic road oils:	28,394,810 \$4,317,900	4,379,550 \$341,256	655,500 \$33,396
Crude petroleum: Barrels (42 gallons) Cost	42, 430, 815 \$108, 744, 915	9,966,176 \$8,746,159	1,078,286 \$489,552	l Gallons l	3,042,660 \$137,557	27,975,400 \$85,489	2 2, 190, 200 \$23, 119
Distillates purchased and rerun: Barrels Cost	9177 200	} (r)	(1)	Value. Partly refined oils sold for rerunning: Gallons Value.	13,575,730	(3)	(8)
Casing-head gasoline purchased:	957,744) }	(1)	Lubricating greases: Gallons	\$902,996 399,700	16,750	, (-V
Cost Sulphuric acid: Tons (net). Cost	\$7,239,075 17,541	} (1)	(4)	Value Paraffin wax: Gallons	\$88,225	\$3,281	1
		2101 500		Value	4,078,190 \$1,061,785	829,900 \$65,340	\$35,710
Pounds Pounds Cost Cost Cost Cost Cost Cost Cost Cos	4,593,856 \$218,273 \$91,460	\$104,500	\$22,060	Other special products, value	\$135,723 \$95,759	\$327,0 64	
Fuller's earth:	\$91,460 5 702	Çan ili ili	1	EQUIPMENT (CAPACITY, GALLONS). Stills:			
Fuller's earth: Tons Cost Other filtering material, cost Containers and materials therefor, cost.	\$181,423 \$12,103 \$256,695	} (1) (1) \$34,932	(1) (1) \$8,185	Steam— Number————————————————————————————————————	238 3,115,100	56 1, 023,60 0	10 121,600
All other materials, cost	\$9,794,950	\$705,146	\$55,676	Fire— Number Capacity	491 10,438,400	125 2,411,800	20 279, 300
Total value		#10 014 0F0	A1 077 011	Pressure— Number	76	} (s)	(3)
	\$150,673,458	\$13,014,372	\$1,055,011	Capacity	1,335,800	47	i.
Naphthas and lighter products: Gasoline—				Capacity. Chilling houses for paraffin: Number	4,066,000	æ1	
Gallois Value	515,964,850 \$90,213,435	81,099,900 \$5,824,332		Canacity	.274.000	(3)	(5)
Gasoline— Gallons. Value. Naphtha— Gallons. Value.	19,353,450 \$2,984,639	20,071,700 \$1,074,237	6,258,950 \$350,167	Filter houses: Number Capacity Hydraylia or other presses:	413.200	} (s)	(8)
Benzine, etc.— Gallons. Value Illuminating olls:	18,878,560 \$2,015,000	Ø1,074,207		Hydraulic or other presses: Number Capacity	33 196,700) (a)	(z)
Gallons Value	262, 455, 270 \$22, 186, 742	87,734,150 \$2,238,898	12,255,450 \$369,662	Storage tanks for: Crude petroleum— Number Capacity	217 156,541,000	61 28,826,000	3 1,794,00
Distillates— Gallons. Value	24,521,840 \$1,755,051	19,192,900 \$522,159	1	Capacity. Refined petroleum— Number Capacity.	1,673 216,154,000	412 48,791,000	5,477,00
Gas oils— Gallons. Value. Residual fuel oils— Gallons.		9,791,650 \$151,508	20, 464, 200 \$242, 957	Fuel oil— Number Capacity	380 88,735,000	76 39,600,000	} (³)
Residual fuel oils— GallonsValue	673,605,070 \$19,771,750	208,256,800 \$2,380,808		Other storage tanks: Number Capacity	348 39, 207, 600	138 1,598,000	} (*)

¹ Included with "All other materials."

Flour-mill and gristmill products (Table 20).—This table shows the kind, quantity, and value of the flour-mill and gristmill products for 1919, 1914, and 1909.

Wheat flour was the product of chief value in 1919 as it was in 1914, forming 74.3 per cent and 58.9 per cent, respectively, of the total value of all products of the industry in the state. The total value of products for the industry increased \$33,155,110, or 198.7 per cent, during the five-year period, and the value of wheat flour \$27,216,114, or 276.8 per cent. There a comparatively smaller increase, however, in the number of barrels of wheat flour, this being 1,392,049, or 67.1 per cent.

TABLE 20.—FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909.

ing the state of t			
F1 44. 11 (42.44.25 M 41. 14. 14. 14. 14. 14. 14. 14. 14. 14.	1919	1914	1909
Total value	\$49, 843, 800	\$16,688,690	\$ 19, 144, 475
Wheat flour: Barrels	3, 464, 289	2, 072, 240	2, 205, 039
	\$37, 048, 315	\$9, 832, 201	\$10, 959, 367
Corn meal and corn flour: Barrels Value	293, 863	266, 284	382, 721
	\$2, 316, 596	\$964, 488	\$1, 124, 244
Bran and middlings: Tons Value	132, 036	83, 282	286, 005
	\$5, 908, 371	\$1, 660, 005	\$6, 760, 825

2 Residuum or tar.

TABLE 20 .- FLOUR-MILL AND GRISTMILL PRODUCTS (MERCHANT MILLS): 1919, 1914, AND 1909-Continued.

	1919	1914	1909
Feed and offal: Tons. Value	72, 526 \$4 , 148, 441	141, 419 \$3, 803, 072	288, 005 \$6, 760, 825
All other cereal products, value	\$415,327 \$6,750	\$10, 533 \$418, 391	\$998 \$299,041

Printing and publishing (Table 21).—This table gives the number and aggregate circulation per issue of the various classes of publications reported in Oklahoma in 1919, 1914, and 1909:

TABLE 21.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.		MBER LICATIO		AGGREGATE CIRCULATION PER ISSUE.						
	1919	1914	1909	1919	1914	1909				
Total	480	596	593	1, 020, 130	1,081,933	857,959				
Daily Sunday. Weekly ¹ . Monthly ² .	62 20 382 16	59 12 500 25	67 11 500 15	347, 673 187, 199 352, 255 133, 003	242, 305 117, 158 504, 595 217, 875	185, 479 77, 326 513, 979 81, 178				

¹ Includes, in 1919, 5 semiweeklies and 1 triweekly; in 1914, 3 semiweeklies; in 1909,

³ Figures not available.

¹ semiweekly.
2 Includes, in 1919, 1 semimonthly and 1 quarterly; in 1914, 1 quarterly and 4 semimonthlies, and in 1909, 3 semimonthlies.

The increase in circulation of daily newspapers for the five-year period from 1914 to 1919 was 105,368, or 43.5 per cent. Fifty-one of the dailies were published in the afternoon. Their circulation was 217,264, which is 62.5 per cent of the total daily circulation, and an increase of 53,512, or 32.7 per cent, over the afternoon circulation reported for 1914.

The circulation of the Sunday newspapers increased 70,041, or 59.8 per cent, during the five-year period from 1914 to 1919, and they were also more numerous than in 1914.

The disappearance of a number of weekly newspapers and monthly publications and the decreased circulation reported for certain semimonthlies are the causes of the decreases in number and circulation of all publications.

All publications were printed in English with the exception of two German weeklies.

Laundries (Table 22). Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 22, however, summarizes the statistics for such laundries in the state of Oklahoma for 1919 and 1914.

TABLE 22.—Power Laundries: 1919 and 1914.

And the second s	NUMBER OF	AMOUNT.	of in-
	1919	1914	crease,1 1914–1919.
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. Amount received for work done.	2, 355 117 244 1, 994 2, 191 1, 707, 624 1, 707, 624 376, 873 1, 330, 751 250 79, 240 875, 592	101 1,632 115 101 1,416 1,766 \$986,074 753,997 100,677 653,320 674 53,500 359,743 1,669,721	-2.0 44.3 1.7 141.6 40.8 24.1 118.8 126.5 274.3 103.7 -62.9 48.1 143.3 113.3

¹ A minus sign (—) denotes decrease.

Dyeing and cleaning (Table 23).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table.

GENERAL TABLES.

Table 25 gives, for 1919, 1914, and 1909, for selected industries in the state and in Oklahoma City, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products: and for the 8 other cities of 10,000 inhabitants or more for which figures are available, similar data for all industries combined.

TABLE 23.—DYEING AND CLEANING: 1919.

·	Number or amount.
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	36 7 3 25 25 \$425, 03 341, 55 43 13
Rent and taxes Cost of materials. Amount received for work done.	38, 27 152, 20

Data for dyeing and cleaning establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

Custom sawmills and custom gristmills (Table 24).— This table shows, for 1919 and 1909, a summary for custom sawmills and custom gristmills. Statistics for these custom mills are not included in the general tables nor in the totals for manufacturing industries, but are presented by the totals in this table.

TABLE 24.—CUSTOM SAWMILLS AND GRISTMILLS: 1919 AND 1909.

						111				
	cusi	OM SAW	MILLS.	CUSTOM GRISTMILLS.						
	1919	1909	Per cent of in- crease, ¹ 1909- 1919.	1919	1909	Per cent of in- crease,1 1909— 1919.				
Number of establishments. Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number). Primary horsepower. Capital. Salaries and wages. Salaries. Wages. Rent and taxes. Cost of materials 3. Value of products 3.	7 11 8 3 218 \$13,868 2,454 2,454 91 910 9,833	4 12 5 7 118 \$5,325 1,908 (2) 65 4,725	84. 7 160. 4 28. 6 28. 6	96 120 114 1,510 \$185,028 5,826 5,826 4,113 350,847 431,360	147 323 182 4 137 4, 123 \$180, 518 12, 906 426 12, 480 (2) 369, 149 465, 348	-34.7 -62.8 -37.4 -95.6 -63.4 2.5 -54.9 -53.3				

 ¹ A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.
 2 Figures not available.
 2 Includes estimates of all grain ground. Value of products for custom sawmills represents the amount charged for work performed.

Table 26 presents, for 1919, for the state as a whole and for Oklahoma City and Tulsa, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments; and for the 10 cities having from 10,000 to 50,000 inhabitants, similar data for all industries combined.

TABLE 25.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

	1 ,							INDUSTRIES AND FO	, IL ().	LILL	5. 19	19, 19	14, A.	ND 190	J9.
INDUSTRY AND CITY.	Cen- sus	Num- ber of estab-	Wage earn- ers (aver-	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen-	Num- ber of estab-		Pri- mary	Wages.	Cost of mate- rials.	Value o prod- ucts.
to the second of	year.	lish- ments	age num- ber).	power.		xpressed housand			year.			horse- power.		xpressed housand	
		THE	STAT	E-AI	L IND	USTRI	ES COM	SINED AND SELECTED IND	USTR	IES.		1	<u> </u>		
All industries	1919 1914 1909	2, 445 2, 518	2	139, 983 97, 308	\$35,026 11,011	\$312,606 70,970	\$401,363 102,006	Glass	1919 1914	16	1,692 1,270	2,795 1,291	\$1,754 992	\$1,912 720	\$4,75 2,00
Bread and other bakery products.	1919 1914 1909	288 342 252	993 697 418	1,265 569 223	966 381 252	34,153 5,040 1,581 969	8,129 2,774	Ice, manufactured	1919 1914 1909	115 97 77	831 528 449	18,394 15,195 10,359	944 353 270	1,044 402 307	3,57 1,60 1,27
Brick and burnt-clay ballast	1919 1914 1909	22 23 38	628 402 730	4,452 3,231 3,733	581 217 378	643 129 226	1,794 1,679 496 1,029	Lumber and timber products 2	1919 1914 1909	201 284 342	2,493 2,651 3,175	10,682 12,799 12,397	2,543 1,308 1,269	2,914 1,685 1,487	8,05 4,11 4,43
Brooms, from broom corn	1919 1914 1909	32 36 23	110 97 76	96 115 51	116 53 43	346 107 145	696 227 248	Marble and stone work	1919 1914 1909	48 55 41	117 142 147	475 453 257	160 96 111	304 122 187	68 34 41
Butter	1919 1914 1909	20 14 19	301 46 62	835 282 427	291 28 36	6,725 673 928	7,718 809 1,150	Mattresses and spring beds	1919 1914 1909	13 11 7	99 75 49	184 259 151	100 42 30	378 164 99	70 26 15
Cars and general shop construc- tion and repairs by electric- railroad companies.	1919 1914 1909	10 7 4	138 58 47	238 125 110	163 48 30	112 43 26	313 98 65	Mineral and carbonated waters	1919 1914 1909	79 108 105	156 122 143	393 222 183	130 70 64	550 210 145	1,292 475 455
Cars and general shop construc- tion and repairs by steam- railroad companies.	1919 1914 1909	12 13 8	2,687 1,718 1,412	2,130 954 957	3,778 1,155 942	2,055 956 642	6,149 2,270 1,702	Oil and cake, cottonseed	1919 1914 1909	51 60 39	930 851 581	14,343 16,315 10,720	879 360 235	16,332 6,283 4,245	18,907 7,590 5,187
Coffee, reasting and grinding	1919 1914 1909	7 6 4	168 60 18	298 171 69	132 28 9	1,968 618 429	2,402 757 500	Patent medicines and compounds. Paving materials	1919 1914 1919	17 13	64 16 295	23 7 2,291	31 10 218	219 25 165	458 60 579
Confectionery and ice cream	1919 1914	73 88	381 156	2,074 1,386	362 91	2,291 542	3,591 931	Petroleum, refining.	1914 1919 1914	66 23	100 4,612 516	625	5,910 432	23 127, 150 9, 591	91 150,672 13,014
Copper, tin, and sheet-iron work	1914	75 72 62	187 141 233	42 94 46	263 99 184	432 241 411	984 474 799	Printing and publishing *	1909 1919 1914	510 624	75 1,931 1,619	3,304 231 2,659 2,288	54 2,332 1,022	3,049 923	1,05 10,24 4,02
Explosives	1919 1914 1919 1914	9 6 227 253	76 73 958 700	439 477 16,573 14,050	149 80 1,021 420	549 320 44,180 14,367	1,063 538 49,844 16,689	Saddlery and harness	1909 1919 1914	598 36 30	1,698 92 54	1,664 50 39 26	1,044 134 43	1,004 650 240	3,989 1,045 369
Food preparations, not elsewhere specified.	1909 1919 1914	295 10 11	842 40 41	16, 400 456 470	473 27 18	16,493 242 143	19,144 337 220	Smelting and refining, zinc	1909 1919 1914 1909	15 11 6 3	2,272 1,641 566	6,952 4,143 1,181	62 3,174 1,310 343	226 14,550 7,879 2,133	378 19,518 9,939 3,000
Foundry and machine-shop products.	1909 1919 1914 1909	262 122 64	2,304 886 457	556 6, 133 2, 443 1, 113	3,168 676 320	7,713 1,674 587	175 16,599 3,173 1,371	All other industries	1919 1914 1909	222 199 297	4,948 2,783 1,859	21, 234 16, 001 10, 285	5,700 1,631 1,067	71,093 21,309 2,785	81,388 28,658 5,356
CITIES OF	50,000	INHA	BITA	NTS C	R-MO	RE—AI	L INDU	STRIES COMBINED AND SE	LECT	ED IN	DUS'	TRIES.			
OKLAHOMA CITY	1919 1914 1909		4,375 2,226 1,398	12, 453 9, 172 4, 132	\$4,895 1,353 973	\$58,644 16,232 5,146	\$69,971 20,726 7,868	Lumber, planing-mill products, not including planing mills connected with sawmills.	1919 1914 1909	7 5 8	162 85 150	432 389 277	\$185 60 106	\$395 140 193	\$810 215 385
Bread and other bakery prod- ucts.	1919 1914 1909	16 16 16 17	400 283 85	332 229 39	334 130 59	1,638 502 214	2,845 848 865	Patent medicines and compounds.	1919 1914 1909	9 9 8	45 13 11	11 7 8	22 9 6	91 22 9	191 55 33
Confectionery and ice cream	1919 1914	9	129 43	916 883	117 31	689 181	1,155 315	Printing and publishing 5	1919 1914 1909	52 53 44	554 426 367	733 505 347	698 256 288	1,263 349 419	3,772 1,266 1,266
Flour-mill and gristmill prod- ucts.	1919 1914 1909	6 6 7	170 81 75	1,350 1,195 1,187	162 60 56	7,867 2,468 1,839	8,753 2,746 2,087	All other industries	1919 1914 1909	111 82 80	2,738 1,162 623	8,333 5,699 2,089	3,151 725 395	46,230 12,343 2,375	51,575 14,795 3,505
Foundry and machine-shop products,4	1919 1914 1909	17 17 7	177 133 87	346 265 185	226 82 63	471 227 97	873 482 222	TULSA All industries,	1919 1914 1909	135 103 53	1,749 845 462	5,207 3,030 1,586	2,317 684 315	6,657 2,170 874	14, 056 3, 86 1, 56
	!	CIT	ies o	F 10,00	0 ТО 5	0,000 IN	HABITA	NTS-ALL INDUSTRIES CO	ABINI	ED.					
Снісказна	1919 1914 1909	24 29 30	548 337 364	1,847 1,633 1,488	\$693 235 242	\$3,376 1,277 1,285	\$4,599 1,720 1,867	McAlester	1919 1914 1909	20 33 29	149 171 180	1,053 1,111 895	\$168 101 101	\$1,060 298 195	\$1,529 574 451
ENID	1919 1914 1909	51 45 65	478 283 303	2,247 1,715 1,722	578 175 191	10,851 2,048 1,807	13,074 2,611 2,453	MUSKOGEE	1919 1914 1909 1919	82 80 64 29	1,218 828 381 552	3,807 2,220 1,421 1,531	1,539 560 241 641	5,376 1,573 1,478 1,081	8,403 2,279 2,276 2,197
CUTHRIE	1919 1914 1909	36 30 34	244 185 282	976 1,211 1,281	179 116 163	2,803 563 947	3,330 853 1,443	SHAWNEE.	1914 1919 1914	30 45 46	433 1,114 815	2,055 2,059	228 1,467 533	235 3,554 1,808	5,742 2,598
				11. //	1 1			el welding": and "structural iro	1909	40	806	1,831	473	1,165	1,941

¹ Includes "automobile repairing"; "gas machines"; "hardware"; "iron and steel, welding"; and "structural ironwork, not made in steel works or rolling mills," in all years; and "hardware, saddlery," and "pumps, steam, and other power," in 1919 and 1914.

2 Includes "furmber, planing-mill products, not including planing mills connected with sawmills," in all years; and "boxes, wooden packing, except cigar boxes," in 1914 and 1909.

8 Includes "bookbinding and blank-book making" in all years; and "engraving, steel and copper plate, including plate printing," in 1919 and 1914.

4 Includes "automobile repairing"; "gas machines"; "hardware"; and "structural ironwork, not made in steel works or rolling mills."

5 Includes "boxes, wooden packing, except cigar boxes," in 1914 and 1909.

6 Includes "bookbinding and blank-book making" in 1914 and 1909, and "engraving, steel and copper plate, including plate printing," in 1914.

7 Comparative statistics by industries for 1914 and 1909 not available.

TABLE 26.—DETAILED STATEMENT OF ALL INDUSTRIES

		PERSONS ENGAGED IN THE INVESTET.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					
Num ber of estab- lish-		Pro- prie- tors	Sala ried offi- cers, super-	Clerk	s, etc.		Wage earne	ors. 5th day of—		16 and	l over.	Und	er 16.	Capital.	
ments	Total.	and firm mem- bers.	in- tend-		Fe- male.	Aver- age num- ber.	Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male.	Fe- male.		

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

											18	n ·		,		11
1	All industries	2, 445	38, 314	2, 320	2, 176	3, 100	1, 215	29, 503	De 32, 259	Ap 27, 897	(8)	(8)	(8)	(3)	(2)	Dollars. 277, 034, 318
5 6 7 8	Artificial stone products. Automobile bodies and parts. Automobile repairing. Awnings, tents, and sails. Bread and other bakery products. Brick and burnt-clay ballast. Brooms, from broom corn. Butter. Carriages and wagons, including repairs.	129	87 142 715 56 1,562 705 175 408 35	38 17 166 8 339 7 46 12 16	3 9 41 6 46 38 7 29	2 5 33 3 97 23 8 43	6 20 3 87 9 4 23 1	44 105 455 36 993 628 110 301 16	Apr 50 Se 113 Se 498 My 52 De 1,142 Au 758 De 121 Au 357	Ja 37 Ja 92 Ja 403 Ja 21 Ja 887 Ja 346 Mh 81 Mh 257	57 102 497 40 1,146 716 127 258 16	57 95 490 20 800 715 117 195	7 20 333 1 10 63	7	2	109, 526 175, 674 1, 066, 264 76, 677 3, 026, 473 1, 906, 508 243, 614 1, 097, 181 40, 400
11 12 13	Carriages and wagons. Repair work only. Cars and general shop construction and repairs by electric-railroad companies.	3 8 10	9 26 151	3 13	2 7	4	1 2	6 10 138	(5) 6 Jy 4 12 No 145	(5) 6 Ja 4 8 Mh 130	6 10 144	6 10 144				17, 800 22, 600 545, 879
- 1	Cars and general shop construction and repairs by steam-railroad	12	2,828		71	52	18	2,687	De 3,012	Ap 3,472	3,012	3,007	5			1,672,447
18 19	Cleansing preparations. Coffee, roasting and grinding Confectionery and ice cream Confectionery Ice cream Copper, tin, and sheet-iron work. Explosives. Flour-mill and gristmill products Food preparations, not elsewhere specified.	3 7 73 28 45 75 9 227 10	27 212 563 262 301 298 129 1,630 60	1 79 29 50 85 224 6	1 14 47 12 35 16 37 163 5	6 21 40 23 17 6 13 218 .6	2 8 16 4 12 4 3 67	17 168 381 194 187 187 76 958 40	De 18 De 209 De 282 Jy 279 Oc 202 Se 90 Au 1,098	Ja 4 16 Je 137 Ja 147 Ja 109 Ja 165 Fe 67 My 763	11 208 420 264 156 205 74 1,095 54	11 116 241 92 149 202 74 1,062	92 178 172 6 2	1 1 1 16		75,730 1,417,086 2,271,356 1,191,781 1,079,575 458,249 1,292,118 18,746,451 183,481
24	Macaroni and other food prepara- tions for human consumption.	5	40	5	2	6	. 3	24	Se 33	No 14	24	11	13			85, 231
25 26 27 28 29 30	For animals and fowls. Foundry and machine-shop products. Boiler shops. Foundries. Machine shops. Machine shop and foundry combined.	5 114- 16 5 83 10	20 2,148 320 149 1,436 243	1 82 15 64 3	3 176 27 16 108 25	136 8 2 112 14	37 4 1 26 6	16 1,717 266 130 1,126 195	Se 320 Se 159 Oc 1,297 De 215	Fe 201 Mh 107 Fe 937 Fe 167	1,921 286 141 1,280 214	1,909 286 141 1,268 214	4	8		98, 250 13, 494, 942 1, 087, 320 601, 161 10, 893, 198 913, 265
31 32	Furniture	7	40 21		3 2	2 2	1	26 14	De 19	Ja 7	47 21	46 21		1		79, 742 35, 222
35	Store and office fixtures	4 16 4 115 10 145 56	19 1,811 9 1,185 40 2,224 717	5 84 17 174 44	1 79 167 1 61 62	19 1 66 1 33 49	1 15 37 1 9 16	12 1,692 3 831 20 1,947 546	De 26 Ap 2,297 De 4 Au 1,338 Ja 4 21 De 2,309 Se 665	Jy 4 6 Jy 987 Se 4 2 Ja 469 Mh 4 19 Je 1,566 Ja 394	26 2,103 4 918 21 2,504 642	25 1,855 3 881 21 2,501 641	232 5	1 12 1 31 31	1	44,520 4,248,214 5,075 6,712,039 42,019 3,668,782 1,981,625
41 42	with sawmills. Marble and stone work. Monuments and tombstones. Other marble and stone work, except slate.	48 41 7	202 138 64	62 52 10	9 6 3	12 12	2 2	117 66 51	My 75 Se 65	Fe ⁴ 59 Ja 40	125 72 53	123 70 53		2 2		347, 390 252, 333 95, 057
45 46	Mattresses and spring beds. Mineral and carbonated waters Oil and cake, cottonseed Oil, mineral and composite	13 79 51 3 17 11 6	132 306 1,169 61 133 24 109	11 99 11 23 16 7	14 26 171 8 8	6 17 45 9 29	2 8 12 2 9 1 8	99 156 930 42 64 7 57	De 115 Au 257 No 1,733 De 77 Ja 4 9 De 69	Ja 83 Ja 78 My 287 Ap 9 Je 4 4 Ja 51	115 168 1,544 77 88 9 79	96 146 1,543 77 13 2 11	19 3 1 75 7 68	19		416, 147 710, 643 9, 796, 104 631, 147 393, 317 9, 474 383, 843
54 55	Patent medicines and compounds. Patent and proprietary medicines Patent and proprietary compounds, not elsewhere specified. Paving materials. Perfumery and cosmetics. Petroleum refining. Photo-engraving. Printing and publishing, book and job Job printing. Book publishing without printing Linotype work, typesetting, etc. Printing and publishing, newspapers	97 91 3 3	371 12 6, 213 36 784 768 3	10 2 1 1 88 84 3 1	27 2 313 7 66 64	36 1 957 4 78 78	3 1 330 2 47 47	295 6 4,612 22 505 495	Au 433 (5) 6 Au 4,823 (6) 22 De 514 De 12	Jy 237 (5) 6 Fe 4,380 (6) 22 Ja 474 Ja 7	414 7 4,797 24 517 505	413 3 4,787 21 379 368	1 2 2 3 134 133	1 8 4 4		696, 110 54, 596 152, 529, 830 42, 148 1, 348, 566 1, 310, 355 7, 000 31, 211
59	Printing and publishing	410 16	2,673 973	416 7	167 46	477 332	198 89	1, 415 499	Oc 527	Fe 469	1,501 515	1, 244 439	232 75	23 1	2	5, 124, 641 2, 080, 423
60	Printing, publishing, and job printing Publishing without printing	365 29	1,624 76	393 16	109	137	92 17	893 23	Oc 949	Ja 839 Ja 20	960	784 21	152 5	22	2	2, 988, 552 55, 666

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919.

			EXP	ENSES.								P	OWER.			
Sala	Salaries and wages.			Rent a	nd taxes.	For ma	terials.				Prin	nary ho	rsepowe	er.		Elec-
Officials.	Clerks,	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fueland rent of power.	Value of products,	Value added by manufac- ture.	Total.	Steam engines (not tur- bines).	Own Steam tur- bines.	Inter-	Wa- ter pow- er.1	Rent- ed. ²	tric horse- power gener- ated in estab- lish- ments report- ing.

THE STATE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

0, 508			·			<u>-</u> -											 ,	
24. 688	Dollars. 6, 172, 107	Dollars. 5, 789, 084	Dollars. 35,025,942		Dollars. 663,719						139, 983	72,723	6,984	24, 133	275	35, 868	19,170	1
2. 4600	24, 598 92, 440 16, 200 67, 877	9, 485 58, 417 6, 755 200, 164 37, 936 17, 777 74, 471	137, 835 602, 889 23, 748 966, 305 580, 875 116, 326 290, 526	53,028	14,060 62,584 6,679 95,135 365 5,026	6,306 14,908 634 77,739 29,189 3,345 29,908	164, 489 869, 346 147, 654 4, 899, 397 235, 176 342, 681 6, 670, 716	5, 274 32, 754 658 140, 845 408, 267 3, 072 53, 786	428, 072 2, 108, 455 244, 660 8, 128, 632 1, 679, 129 695, 646 7, 718, 428	258, 309 1, 206, 355 96, 348 3, 088, 390 1, 035, 686 349, 893 993, 926	105 1,041 22 1,265 4,452 96 835	30 3,460	2	452 70 503 11 76		105 585 22 1,163 489 85 569	10 1,005 3	
3, 000			11 248	11	1,570	281	8,975	1.055	34,984	24 954	45			18		27		11 12 13
38 000 44 77 78 132 308 7 7 602 42 233 1,055,728 9,201 2,401,720 433,774 238 7 7 11 15,015 015 07 7 8 14 135,034 7 7 10 11 15,015 015 07 10 12 10 15,015 01 10 10 10 10 10 10 10 10 10 10 10 10	215,618	80,600	3,777,544			3,382	1,859,992	195, 108	6, 149, 067	4,093,967	2,130	415		866		849	50	14
3, 150	36, 916 118, 015 29, 188 88, 827 29, 125 83, 056 423, 717	29, 217 10, 700	132, 308 362, 344 138, 934 223, 410 262, 717 149, 013 1, 021, 017	750 2,696	7, 992 31, 774 19, 455 12, 319 18, 068 5, 454 5, 695	42,223 51,751 29,939 21,812 6,149 41,616 726,115	1,958,726 2,206,493 960,331 1,246,162 427,853 537,048	9,291 84,946 5,937 79,009 4,074 11,477 367,765	2,401,791 3,590,714 1,344,999 2,245,715 983,826 1,063,310 49,843,800	433,774 1,299,275 378,731 920,544 551,899	298 2,074 211 1,863 42 439 16,573	1,300 439 7,590	39	46 7 5,007	7	298 721 211 510 35	70 405	15 16 17 18 19 20 21 22 23
2,865 243,960 248,175 10,078 10	1 :: "				3,026	279		1	1	1	i.	11						24 25
4, 800 4, 900 46, 148 3, 3, 90 128 82, 339 1, 645 170, 435 86, 421 162	518,840 76,047 76,428 306,081	1 194.195	2,382,175 385,563 168,858 1,580,516	4,690 5,275	21,267 1,214 1,200 18,630	525, 697 36, 561 176, 696 290, 383	5, 976, 461 794, 686 490, 760 4, 309, 634	276, 428 22, 390 9, 744 214, 600	13,509,544 1,695,624 1,242,963 9,666,117	7, 256, 655 878, 548 742, 459 5, 141, 883	4,829 1,379 156 2,775	494 220 224		895 470 25 399		3,440 689 131 2,152 468	80 80	26 27 28 29 30
1, 200	4.800	4,000	46.148		3,360 1,480		82,339 43,505	1,645 784	170, 405 78, 439								•••••	31
18, 781	1,200 224,012 257,928 1,300 160,097	400 60,300 1,600 78,322 858 66,263	29, 174 1, 753, 686 2, 784 944, 215 32, 747 1, 937, 871	4,496 225 215,739	2,340 4,125 3,758 1,857	63, 291 106 168, 141 905 187, 654	1,607,933 4,228 379,489 22,344 1,243,547	304,362 280 664,586 1,678 68,227	4,750,844 19,851 3,574,431 99,033 4,003,853	15, 343 2, 530, 356 75, 011 3, 592, 079	2,795 1 18,394 13 8,829	14,280 8,006 470		2, 261 90 81		495 1 1,128 13 30 1,302	769 1,020 290	33 34 35 36 37 38
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11,050	15,166	86,908	500 500	3,443 2,738 705	1 2.651	293, 639 180, 557 113, 082	6,797	425, 141 262, 450	237, 787 145, 550	265 210			108 40		157 70		41 42
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	25, 404 43, 248 290, 562 18, 120 18, 514	16,058 20,301 71,178 24,596 66,551	130, 295 879, 095 24, 390 30, 809 5, 666	1.500	12,688 5,381 4,165 2,526	43,768 275,434 1,463 5,599 236	537, 840 15, 975, 402 536, 439 218, 450 17, 557	12,519 356,741 8,187 900 91	1, 292, 096 18, 907, 312 680, 622 454, 577 42, 069	741,737 2,575,169 135,996 235,227 24,421	393 14,343 572 23 1	18 12,636	2	75 1,219	1	1,088 572 22	3 139	44 44 44 44 44 44
5, 171	54, 056 3, 800	51,621 2,105 2,023,780	217, 721 6, 890 5, 909, 664 40, 886 593, 569	35, 964 15, 145	17, 167 1, 320 22, 960 3, 360 69, 821 68, 981	1,646 1,188,857 2,004 19,839 19,709	75, 514 122, 435, 363 10, 222 833, 043 831, 507 250	4,714,359 2,183 24,862 24,105	104,712 150,673,458 98,930 2,507,449 2,443,684 31,800 31,965	28, 966 23, 523, 736 86, 525 1, 649, 544 1, 588, 072 31, 550 29, 922	24,477 21 513 508	1		3,523	2	6,102 21 508 503	2 2	50 51 52 53 54 55 55 57
238, 553 201, 680 981, 688 11, 111 92, 995 51, 480 22, 128 1, 490 287, 243 256, 625 31 31 31 31 31 31 31 31 31 31 31 31 31	403, 295	545, 179	l l	102, 889	140,830	84, 105 30, 637	2,098,231 1,206,106	84,683 21.505	7,704,823 3,631,898	2, 404, 287	684			. 7	ļ	677		. 59
	238, 553	201,680	981, 033	11,111	92, 905 4, 425	51, 490 1, 978	862, 997 29, 128	1,490	II .	256,625	31	orted for	one or	1	.l	31		. 61

* No figures given for reasons stated under "Explanation of terms." Same number reported for one or more other.

TABLE 26.—DETAILED STATEMENT OF ALL INDUSTRIES

WAGE EARNERS DEC. 15, OR

	7			-	PERSON	NS ENG	AGED 1	IN THE I	NDUSTRY.				AGE EAI REST RE				
					Sala-	Clerk	s, etc.		Wage e	rners.		, 1	16 an	d over.	Und	ler 16.	
•	INDUSTRY AND CITY.	Num- ber of estab- lish- ments		Proprietors and firm members.	ried offi- cers, super- in- tend- ents,		Fe- male.	Aver- age num- ber.	Numbe Maxim month	am M	day of— inimum nonth.	Total,	Male.	Fe- male.	Male.	Fe- male.	Capital.
	THE S	TATE	-ALL I	NDUS	TRIES	з сом	BINE	D ANL	SPECII	TED I	NDUST	RIES-C	Continue	ed.			
1 2 3 4 5 6 7 8	Rubber tires, tubes, and rubber goods, not elsewhere specified. Saddlery and harness. Shirts. Signs, other than electric. Smelling and refining, zinc. Tobacco, eigars. Wirework. All other industries*	36 4 3	67 153 89 10 2,410 111 7 5,418	41 2 1 21 3 63	9 11 4 2 47 2 192	25 6 11 66 1 433	7 3 3 25	26 92 69 7 2,272 87 4 4,561	No 1 Je 2 Ja 2,5 De 1 Jy	04 Jy 6 Ja	67 52 3 1,972 72 2	65 111 104 6 2,446 106 3	36 107 6 6 8 2,445 36 3	29 3 85 1 70	1 3	10	Dollars, 619, 444 418, 153 129, 431 12, 402 12, 405, 470 72, 733 7, 386 27, 001, 108
Ard Au Ba Ba Bo Bo	*All other industries embrace- icultural implements	Butto Canni Carpe Carris Cars, oper Ceme	s, set-up) s, wooder es ms ing and p ts, rag sge and w steam-rations of	reservi vagon n ailroad f railro	ng, fru nateira , not ad com	its ls includ apanies	1 1 2 1 ing 1	Coke, Coope Corda	cal, not in lumber stries	ding gas sheads s ine	s-house c and barre	okei	Drug Elect Engi Engr inc Gas a Gas, Gas i Gass me	gists' proplation of the property of the prope	reparatingm, gas steel and olate printing fixtating ans, sta	and wand copinting ures.	ss
1	OKLAHOMA CITY—All industries.		5,806	159	292	707	273	4,375	De 4,6	62 Fe	3,983	4,670	3,804	862	3	1	29,371,247
2 3 4 5 6 7 8 9	Automobile bodies and parts Automobile repairing Bread and other bakery products Brooms, from broom corn Confectionery and ice cream Copper, tin, and sheet-iron work Flour-mill and gristmill products Food preparations, not elsewhere specified.	7 3 16 4 9 7 6	66 48 496 85 166 55 228 29	6 1 18 7 5 10 1	3 4 9 4 12 5 24 2	4 3 43 7 18 1 24 3	2 2 26 2 2 1 9 3	51 38 400 65 129 38 170 18	Au De 4 Se Se 1 Ap 8 No 1	58 Ja 41 Mh 72 Jy 73 Mh 89 Ja 42 No 97 My No	345 47 74 3 34 146	46 38 470 68 153 35 187 22	44 38 271 63 77 35 187 12	199 5 76			55, 478 43, 190 1, 006, 054 110, 749 917, 242 82, 444 3, 839, 812 44, 200
10 11 12	Foundry and machine-shop products Ice, manufactured. Lumber, planing-mill products, not including planing mills connected with sawmills.	11 4 7	132 76 210	<u>6</u>	17 6 22	12 16	4 3 8	101 55 162	Se 1 Au Se 1	32 Fe 71 Ja 88 Ja		121 64 187	121 64 187				371,183 589,295 740,430
13 14 15 16	Mattresses and spring beds. Mineral and carbonated waters. Patent medicines and compounds. Printing and publishing, book and job	4 5 9 34	70 25 68 401	4 10 30	10 2 3 34	3 3 6 48	2 4 25	55 16 45 264	Jy 3 De	57 Ja 24 Ja 33 Ja 71 Ja	45 10 41 255	67 9 63 264	59 9 7 194	56 .			218,942 122,082 117,195 607,979
17 18	Printing and publishing, newspapers and periodicals. All other industries *	18	551	9 47	26	172	54	290	Oc 3	23 Mh	259	311	272	38			1,286,071
		78	3,100	**(109	340	126	2,478					2,164	398	2	1	19,218,901
Art	* All other industries embrace— icultural implements. 1 ificial limbs. 2 ificial stone products. 3 omobiles. 1 ings, tents, and sails. 2	Boxes Boxes boxes Butte	oinding and, set-up 1 , wooden	aper b packii	oxes og, exc	ept cia	ar 1	Coffee,	ealsing prepa ig, men's roasting burial	and gri	nding	1	Gas, i	llumina	ting and	i heatin	er plate, 1 xtures 2 2 1g 1
Aut Aw Bag in Bal	oings, tents, and sails	and com	ns and gene repairs panies ctive of o	by 	electri	c-railro	ad 1	and ma	oods age, hogs is and fla sts' prepa ter motor	rations		2	Hand Hardy	stamps ware, bu	ilders'.		1

COMBINED AND SPECIFIED INDUSTRIES 1919—Continued.

		un nagari — s Singa arris Historia arrigan	er and a second	ENSES.	a i ve iazi M	anta constant	en in de la companie br>La companie de la co	Maria de la compansión	terring the		* 1	PO	WER.	unistat in	1 1	
Sala	ries and w	ages.	. 10 -15	Rent a	nd taxes.	For ma	terials.				Pri	nary ho	rsepowe	er.		Elec-
			For	- :		r see o		Value of products.	Value added by manufac-			Own	ed.		:	tric horse- power gener-
Officials.	Clerks,	Wage earners.	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.	bus-	Wa- ter pow- er.1	Rent- ed.3	ated in estab- lish- ments report ing.
	1	3: - 1	THE S	TATE—.	ALL INDU	STRIES C	OMBINED	AND SPE	CIFIED IN	dustr	IES—Co	ntinued		-		
Dollars. 9,915	Dollars. 18,205	Dollars. 26,543	Dollars.	Dollars. 2,503	Dollars. 5,182	Dollars. 100,838	Dollars. 1,427	Dollars. 207,726	Dollars. 105,461	164	125		. 26		13	
34, 142 12, 757 2, 765 167, 582 2, 700 502, 358	9,979 38,757 133,530 2,000 795,843	133,685 39,905 13,822 3,174,486 63,482 3,839 5,353,183	4,138	15,478 3,140 1,507 2,488 225 26,896	7,218 8,626 2,440 242,191 24,034 225 951,129	647, 182 384, 556 5, 934 12, 743, 825 143, 782 9,004 68, 501, 716	2,747 434 200 1,806,153 1,590 81 1,309,868	1,042,107 572,757 31,376 19,517,566 266,083 21,970 79,128,557	392,178 187,767 25,242 4,967,588 120,711 12,885 9,316,973	50 19 3 6,952 1 20,245	3,945	5	2 1,315 4,575		48 19 1 1,687 2 7,672	2,545 9,029
welry ime ooking-gl	ass and pic	ds, feather ture frame ground or o	1 2 8 1 other 2	Paints. Peanuts and sh Photogra	grading, i elling aphic appar	ns, not include and material m	ning, 2	Pumps, stear Pumps, stear Roofing mate Show cases Slaughtering Smeiting and Stoves and ra Stoves, gas an USTRIES CO	nd oil		2	Washi ers. Windo strip Wood Wood,	ng macr ow and d os preservi turned	oor ser ing and ca	l mixed position id clothe eens and rved	weathe
	1,372,101	4,895,192	93,941	162,390	1,119,800	58,023,514	620,660		11,328,614	12,453	6,835	100	144		5,374	3,106
3,948 7,540 16,910 10,690 45,479 8,842 73,013 3,150	5,308 5,460 107,320 16,277 30,078 2,224 48,969 7,700	60, 065 49, 643 333, 666 66, 937 117, 457 58, 560 162, 131 10, 869	820	6,460 4,725 8,150 2,463 4,535 2,485 696 2,216	2,242 824 46,774 2,131 19,642 1,171 115,418 188	57,779 39,729 1,608,007 183,304 647,503 87,492 7,812,488 82,149	1,824 1,222 30,475 1,103 41,987 453 54,565 1,363	157,901 128,429 2,845,186 365,526 1,154,844 184,182 8,752,649 118,658	98, 298 87, 478 1, 206, 704 181, 119 463, 354 96, 237 885, 596 35, 146	29 25 332 30 916 9 1,350	30 765 950				29 25 302 30 151 9 400 16	70
41,776 15,200 60,214	7,637 8,770 32,351	125, 414 60, 740 185, 461		6,632 3,595	4,011 8,159 39,484	177,488 39,403 388,828	10,488 75,703 6,541	440, 637 264, 342 809, 724	252,301 149,236 414,355	265 1,545 432	1,360 180		35		230 85 252	125 290
18,004 5,068 6,207 138,380	10,538 5,400 32,555 291,416	53,716 21,759 22,110 329,891	27,996	4,770 856 2,369 32,727	10,616 7,865 5,151 10,191	181,607 121,345 90,273 495,078	2,416 2,530 559 12,189	370,776 216,185 191,288 1,409,474	186,753 92,310 100,456 902,207	104 36 11 267					64 36 11 267	
113,461	193,816	367,935	61,535	36,810	14,291 831,642	745,023 45,265,658	10,629 366,613	2,362,773 50,198,214	1,607,121 4,565,943	466 6,620	3,550	 	69		466 3,001	2,453
pillows ewelry darble and dirrors, fr elsewher dodels an	d stone wor ramed and e specified id patterns	goods, fe unframed	, not	not elso oil and oil, min optical Paints.	instrumentsewhere specake, cottoneral	ts and mat cifiedseed	1 2 2 1 1 2	Petroleum, re Photo-engrav Rubber tire	efiningings, tubes, elsewhere si harness	and rul	2 2 ober 6 6 1	Stoves Struct steel Vinega Windo weat	tering a , gas and ural iro works o r w and her stri	d oil n worl or rollin l door	at packi k, not ng mills r scree	ng made in

TABLE 26.—DETAILED STATEMENT OF ALL INDUSTRIES

_								IABL	E ZU	.—	DIAILDEL	DIAL	EMIET	AT. O	ILLEN SI	7 11X17	USTRIES
					PERSO	IS ENG	AGED	IN THE	NDUST	RY.		WA NEAR	GE EAR LEST REI	NERS D	EC. 15, TATIVE	OR DAY.	
					Sala-	Clerk	s, etc.		Wag	e earne	ers.		16 and	i over.	Und	ler 16.	
	industry.	Num- ber of estab- lish-		Pro- prie- tors	ried offi- cers,				Num	ber, 1	5th day of—						Capital.
		ments	Total.	and firm mem- bers.	super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average number.		mum nth.	Minimum month.	Total.	Male.	Fe- male.	Male.	Fe- male.	
	CITIES OF 50,000 INHA	ВІТА	NTS OR	MOR	E-AI	L IN	DUST	RIES C	омві	NED	AND SPEC	HFIED	INDUS	TRIES	-Conti	lnued.	
1	TULSA—All industries		2,454	99	181	338	87	1,749	Se	1,941	Fe 1,433	2,000	1,866	120	4	10	Dollars. 12,620,091
2 3 4 5 6 7 8 9	Artificial stone products. Automobile bodies and parts. Automobile repairing. Bread and other bakery products. Confectionery and lee cream. Copper, tin, and sheet-iron work. Foundry and machine-shop products Ice, manufactured. Lumber, planing-mill products, not including planing mills connected with sawmills.	. 9	32 42 95 110 77 52 763 152 221	9 5 11 5 9 12 • 3	3 5 8 7 3 59 11 14	2 22 22 6 1 58 6 26	2 6 2 13 1 3	19 32 77 69 55 34 630 134 175	Se 3 Mh 3 Se De Je Jy 3 No Au Au	22 33 89 88 66 40 761 214 233		23 33 78 88 62 39 764 146 199	23 29 78 79 36 37 764 145 199	9 26 2			42,695 67,687 56,179 435,369 397,097 124,061 8,020,970 712,828 434,306
11 12 13	Marble and stone work. Mineral and carbonated waters. Printing and publishing, book and	4 5 16	26 28 123	4 4 12	2 3 13	<u>4</u> 7	3	20 17 88	Se Je 3 De	30 25 102	Fe 14 Ja 2 10 Ja 8 83	22 14 95	22 14 78	 17			44,494 90,167 329,841
14 15	job. Printing and publishing, newspapers and periodicals. All other industries*.	7 27	424 309	5 17	22 28	155 50	44 13	198 201	Му	211	Se 8 191	193 244	158 204	35 26	4	10	743,726 1,120,671
	*All other industries embrace— nings, tents, and sails	con	and gene l repairs ipanies	eral she	op con electric	structi -railro	on ad	Clean Coffee Engir			tionsd grinding.as, and wate		1 Flou 1 Fur 1 Glas	r-mill s niture, s	nd gris store an ing. sta	tmill pr d office	oducts 1 fixtures. 2 and orna-
1 2 3 4 5	ARDMORE BARTLESVILLE CHICKASHA ENID GUTHRIE	35 32 24 51 36	476 327 625 654 341	38 32 18 33 38	51 24 34 53 19	67 17 15 58 20	15 8 10 32 20	305 246 548 478 244	Oc Se Oc Se Au	380 274 627 576 278	Fe ² 230 Fe 199 My 478 Ja 388 My 197	354 270 589 510 254	826 259 574 445 195	27 11 12 65 58	1 3 1		5,017,216 1,087,287 1,960,427 5,197,530 806,008
6 7 8 9 10	MCALESTER. MUSKOGEE OKMULGEE. SAFULPA. SHAWNEE	20 82 29 29 45	207 1,560 577 644 1,287	13 72 24 30 39	21 62 30 28 57	16 142 48 18 57	8 66 20 16 20	149 1,218 455 552 1,114	Au De Jy My No	197 1,353 500 618 1,296	Mh 91 Ja 1,124 Ja 378 Ja 501 My 933	178 1,355 504 597 1,285	167 1,260 478 564 1,175	10 94 26 32 105	1 1 1 5		976,232 5,301,814 8,464,128 1,442,900 2,121,484

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919-Continued,

		EXP	ENSES.								P	OWER.			
ies and w	ages.		Rent a	nd taxes.	For mat	terials.				Prin	nary ho	rsepowe	er.		Elec
							Value of	Value added by			Own	ed.	-		tric horse- power
Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fueland rent of power.	F -53.333	ture.	Total.	Steam engines (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.
CITII	ES OF 50,0	AHNI 00	BITANT	s or mo	RE—ALL I	ndustri	ES COMBII	NED AND	SPECIE	'IED IN	DUST	RIES-	Contin	ued.	
Dollars. 471,876	Dollars. 2,316,844	Dollars. 59,885	Dollars. 90,184	Dollars. 419,495	Dollars. 6,372,475	Dollars. 284,590	Dollars. 14,050,073	Dollars. 7,393,008	5,207	1,205		894	<u></u>	3,108	151
300 1,745 3,000 39,155 7,849 2,822 105,511 8,628 52,679	19, 249 46, 867 73, 263 79, 361 53, 454 52, 113 904, 933 132, 351 216, 205	46,286	1,600 4,920 6,780 11,519 8,039 2,385 8,418	329 2,140 746 4,577 4,344 1,538 312,629 29,062 17,991	40,679 70,449 76,386 426,011 304,481 73,291 2,795,582 32,875 430,581	1,043 1,057 3,217 11,013 4,199 510 130,547 85,562 14,177	96,304 166,724 224,402 700,855 445,510 196,892 6,669,577 495,725 844,744	54,582 95,218 144,799 263,781 136,830 123,091 3,743,448 377,288 399,986	29 32 72 187 118 2 2,185 1,233 400	120 720		422 410 25		23 32 69 187 118 2 1,643 103 376	80 61
4,800 12,743	33,247 19,147 131,076	2,619	885 2,050 19,078	250 7,399 3,819	73,727 65,052 169,120	357 1,542 5,356	154,376 108,078 503,226	80,292 41,484 328,750	32 70 85	15		3		32 52 85	8
145,030 87,614	340,174 215,404	10,980	7,568 15,167	15,668 19,003	482,822 1,331,419	7,742 18,268	1,377,209 2,066,501	886,645 716,814	181 581	350		25		181 206	2
	CITII Collars. 471,876 300 1,745 3,700 39,155 7,849 2,822 105,511 8,628 52,679	CITIES OF 50,0 Collars. Dollars. 2,316,844 300 19,249 1,745 3,000 73,263 39,155 79,361 7,849 2,822 52,113 105,511 904,931 8,628 132,351 52,679 216,205 4,800 19,147 12,743 131,076	Citres of 50,000 inha Cities of 50,000 inhabitant Cities of 50,885 on 1,600 Cities of 6,780 Cities of 73,203 Cities of 73,	Cities of 50,000 inhabitants or models. Cities of 50,000 inhabitants or model	Clerks, Wage etc. For contract work. Rent of factory. State, state, country, and local. Principal country, and local. Principal country, and local. Principal country, and local.	Clerks, earners. For contract work. Rent of factory. State, state, and local. Principal materials. Fuel and rent of power.	Clerks, earners. For contract work. Rent of factory. Rent of factory. State, and local. Principal materials. Principal rent of power.	Clerks, earners. For contract work. Rent of factory. Rent of factory. State, and local. Principal materials. Fuel and rent of power. Principal materials. Fuel and rent of power. Principal materials. Principa	Clerks, Wage etc. For contract work. Rent of factory. Federal, state, and local. Principal rent of power. Full and rent of power. Total.	Clerks, Wage etc. For contract work. Rent of factory. Federal, state, and local. Principal materials. Fuel and rent of power. Fuel and rent of power. Total. Steam engines (not burn-bines).	Cities of 50,000 inhabitants or more Pollars Polla	Cities of 50,000 inhabitants or more Pollars Polla	Clerks, earners. Wage etc. For contract work. Rent of factory. State, country, and local. Principal materials. Fuel and rent of power. Principal rent of power. Total. Steam engines Steam (not turbines). Steam engines Steam (not turbines). Steam engines Steam (not turbines). Principal rent of power. Principal rent of	Clerks, earners. For contract work. Rent of factory.	

101,620 67,985 77,858 137,805 40,062	62,344 23,035 24,602 112,165 61,676	350,136 335,506 693,495 577,527 178,519	5,475 1,636 678 2,837 4,400	14,795 7,846 8,062 23,309 7,445	87,489 39,759 53,738 90,550 18,416	3,465,606 838,775 3,289,588 10,671,769 2,754,913	102,334 43,932 86,367 178,874 48,074	4,965,622 1,905,575 4,598,973 13,073,672 3,330,365	1,397,682 1,022,868 1,223,018 2,223,029 527,378	1,298 752 1,847 2,247 976	1,025	 35 693 114	4	344 502 129 763 168	25 230 106	1 2 3 4 5
 45,530 195,962 81,454 77,232 152,128	35,532 190,975 103,742 45,238 84,044	167,861 1,538,744 554,189 640,676 1,467,075	10,466 3,669 62	6,240 33,290 7,199 8,462 13,000	28;629 112,588 63,752 37,504 41,534	1,034,345 5,104,387 2,887,358 1,009,908 3,456,216	25,474 271,189 117,742 71,137 97,785	1,529,357 8,402,888 3,991,231 2,197,083 5,742,944	469,538 3,027,312 986,131 1,116,038 2,188,943	1,053 3,807 816 1,531 2,055	2,192 95 545	 218 158 175		1,397 563 811		1 77

³ Same number reported for one or more other months.

94669°—22——78

OREGON.

GENERAL STATISTICS.

General character of the state.—Oregon has a gross area of 96,699 square miles, of which 95,607 represent land surface. The inhabitants of the state in 1900 numbered 413,536; in 1910, 672,765; and in 1920, 783,389. In total population Oregon ranked thirty-fourth among the states in 1920. The number of inhabitants per square mile in 1910 was 7, the corresponding figure for 1920 being 8.2.

In 1920 there were four cities in the state—Astoria Eugene, Portland, and Salem—having more than 10,000 inhabitants. The combined population of these cities in that year was 300,587, which formed 38.4 per cent of the total for Oregon. Of the total value of the state's manufactured products, 60.4 per cent were reported by these four cities.

Importance and growth of manufactures (Table 1).— The increases in wages, cost of materials, and value of products, from 1914 to 1919, as presented in Table 1, are in a great measure due to the changes in industrial conditions brought about by the World War. The increases in average number of wage earners and horsepower, however, are indicative of a decided growth in the manufacturing activities of the state. The addition of the Federal income tax since 1914 accounts for the large increase in "Rent and taxes."

Statistics for the state, by counties (Table 2).—Figures are not available for comparison of county totals for 1919 with those for prior censuses. Of the 36 counties in the state, Multnomah, containing the city of Portland, reported 58.6 per cent of the total value of products in the state and 49 per cent of the average number of wage earners.

Principal industries, ranked by value of products (Table 3).—The ranking of industries by value of products is not always conclusive as indicating their importance from a manufacturing standpoint. In many instances their ranking would change materially if based upon the average number of wage earners or value added by manufacture.

Persons engaged in manufacturing industries (Table 4).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex, for 1919, was reported separately, but for 1914 and 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 31.

Average number of wage earners for selected industries (Table 5).—The industries covered by this table are those which employed 200 or more wage earners in 1919, and for which statistics can be shown without the possibility of disclosing the operations of individual establishments.

Average number of wage earners, by sex and age, and value of products for cities of 10,000 inhabitants or more (Table 6).—During the census period 1914–1919 all cities show increases in value of products, due largely to the increased value of commodities at the latter period. Portland is by far the most important city in the state and shows an increase during this five-year period of 15,540, or 137.9 per cent, in the average number of wage earners, and \$140,682,706, or 252.6 per cent, in value of products.

Wage earners, by months (Table 7).—The statistics for wage earners in this table are intended to show the steadiness of employment, or the reverse, in accordance with the industrial conditions existing during the several census years.

Wage earners, by months, for selected industries and for cities (Table 8).—In addition to the number of wage earners employed by months, this table gives similar data for males and females for all industries combined for the state and for cities of 10,000 inhabitants or more. The table also shows a number of industries in the state in 1919 employing a considerable proportion of female wage earners.

Prevailing hours of labor (Table 9).—Since 1914 there has been a marked shortening of the working-day in Oregon. In that year only 13.8 per cent of the wage earners were reported in the group "48 and under" as against 89.4 per cent in 1919. In 1914 the "60" and "Over 60" groups constituted 54.9 per cent of the total wage earners, as compared with 3.4 per cent in 1919.

Size of establishments, by average number of wage earners, for selected industries and for cities (Table 10).—The predominance of the number of small establishments, when based on the number of wage earners employed, is evidenced in this table by the fact that of the total number of establishments in the state, 95.5 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed but 35.1 per cent of the total number of such employees. On the other hand, the establishments employing an average of more than 100 wage earners represented only 4.5 per cent of the total manufacturing establish-

ments in the state, but reported 64.9 per cent of the total number of wage earners.

Size of establishments, by value of products (Table 11).—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 for 1909, and in the case of average number of wage earners and value added by manufacture for 1914.

Size of establishments, by value of products, for selected industries (Table 12).—In the preparation of this table it was necessary in some instances to combine the establishments of one group of the industry with those of some other group of that industry to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for cities of 10,000 inhabitants or more (Table 13).—This table strikingly illustrates the fact that the number of establishments of itself is no real index of the extent of manufacturing activities.

Character of ownership (Table 14).—The predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 34.5 per cent of the number of establishments in the state in 1919, they reported 86.9 per cent of the average number of wage earners and 87.9 per cent of the total value of products. During the five-year period 1914

to 1919 the average number of wage earners in corporations increased 26,813, or 111.5 per cent, and the value of products \$230,980,628, or 252.8 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table shows that the combined number of establishments in these four cities in 1919 represented 39.2 per cent of the total in the state. They reported in that year 50.9 per cent of the average number of wage earners and 60.4 per cent of the value of products.

Principal industries in Portland (the only city in the state having 50,000 inhabitants or more), with per cent of total for the state (Table 16).—This table includes all industries in the city of Portland, having products of \$1,000,000 and over, for which figures can be shown without disclosing individual operations.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 90,124 horsepower, or 42.1 per cent. Of this increase, 36,064 horsepower, or 40 per cent, was owned power, and 54,060, or 60 per cent, rented power. During this five-year period, owned power increased 20.6 per cent and rented power 138.4 per cent.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. There was an increase in the quantities of each of the several kinds of fuel used in 1919 as compared with 1914.

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

 And Annual Process Statistical Community 	nder _g erag	MAŅUFA	CTURING INDU	STRIES.		PE	R CENT OF	INCREASI	6. ¹
the comment of the co	1919	1914	1909	1904	1899	1914 1919	1909- 1914	1904- 1909	1899- 1904
Number of establishments	2,707	2,320	2,246	1,602	1,406	16.7	3.3	40.2	13. 9
Persons engaged. Proprietors and firm members. Salaried employees. Wage earners (average number).	68,005	35,449 2,189 4,431 28,829	34,722 2,499 3,473 28,750	22,018 1,726 1,769 18,523	(3) (2) 1,143 14,459	91.8 16.0 55.9 103.1	2.1 -12.4 27.6 0.3	57.7 44.8 96.3 55.2	54, 8 28, 1
Primary horsepower	304,346 \$237,254,736	214,222 \$139,500,379	175,019 \$89,081,873	81,348 \$44,023,548	60,005 \$28,359,089	42.1 70.1	22. 4 56. 6	115.1 102.4	35. (55.
Salaries and wages. Salaries. Wages.	95,092,955 13,999,171 81,093,784	26,614,328 5,682,751 20,931,577	23,949,428 4,047,494 19,901,934	13,576,026 2,132,514 11,443,512	8,044,171 1,222,160 6,822,011	257.3 146.3 287.4	11.1 40.4 5.2	76.4 89.8 73.9	68.8 74.8 67.7
Paid for contract work. Rent and taxes. Cost of materials. Value of products. Value added by manufacture 4.	1,936,402 13,703,868 206,206,041 366,782,627 160,576,586	725,562 2,135,047 63,257,821 109,761,951 46,504,130	576,699 1,418,564 50,552,470 93,004,845 42,452,375	459,571 8688,506 30,596,763 55,525,123 24,928,360	(1) (4) 20,788,833 36,592,714 15,803,881	166.9 541.9 226.0 234.2 245.3	25.8 50.5 25.1 18.0 9.5	25.5 65.2 67.5 70.3	47. 51. 57.

¹ A minus sign (-) denotes decrease.

Figures not available.

^{*} Exclusive of internal revenue.

Value of products less cost of materials.

TABLE 2.—STATISTICS FOR THE STATE, BY COUNTIES: 1919.

	Num- ber of	WAGE	EARNERS.	77	Contract of	Value of	Value added	Primary
COUNTY.	estab- lish- ments.	Average number.	Wages.	Rent and taxes.	Cost of materials.	products.	by manufac- ture.	horse- power.
The state	2,707	58, 559	\$81,093,784	\$ 13, 703, 868	\$206, 206, 041	\$366, 782, 627	\$160, 576, 586	304,346
Baker. Benton. Clackamas. Clatsop. Columbia.	63 51 72 111 73	1,017 660 2,206 3,742 2,154	1, 169, 670 749, 472 2, 786, 664 5, 962, 231 2, 813, 900	72, 153 31, 646 293, 517 357, 614 272, 713	2, 453, 997 1, 494, 804 4, 690, 157 13, 873, 082 3, 402, 212	4, 454, 298 2, 782, 202 10, 320, 872 23, 796, 180 7, 525, 743	2,000,301 1,287,398 5,630,715 9,923,098 4,123,531	4,809 3,735 48,574 25,613 17,521
Coos Crook Curry Deschutes Douglas	95 12 18 29 87	2,661 38 352 1,359 776	4, 211, 776 40, 219 542, 454 2, 141, 375 1, 028, 773	221, 592 1, 977 14, 845 501, 795 25, 658	4,760,147 62,408 575,658 1,072,252 1,466,652	11, 476, 647 145, 738 1, 227, 582 5, 715, 195 3, 087, 854	6,716,500 83,330 651,924 4,642,943 1,621,202	26,211 413 1,704 4,934 6,021
Gilliam Grant Harney Hood River Jackson	5 22 14 23 61	8 323 12 447 345	12, 293 448, 445 14, 851 565, 175 401, 131	1,044 13,944 1,566 28,793 26,261	22, 715 265, 020 57, 072 877, 282 887, 404	48, 163 1, 052, 401 109, 971 1, 687, 103 1, 656, 661	25, 448 787, 381 52, 899 809, 821 769, 257	2,005 279 5,894 1,734
Jefferson Josephine Klamath Lake Lane	7 24 69 6 138	163 1,645 5 2,414	2,991 161,918 2,180,216 4,072 2,792,430	1, 146 6, 582 245, 088 738 103, 012	40,699 244,554 3,483,525 88,219 3,111,592	54,249 552,698 8,287,311 103,844 8,029,039	13,550 308,144 4,803,786 15,625 4,917,447	200 905 6,669 120 16,444
Lincoln Linn Malheur Marion	25 85 14 170	77 788 34 2,559	80, 587 823, 470 45, 260 3, 025, 626	6, 357 49, 286 4, 190 346, 817	350, 585 2, 469, 792 67, 984 9, 093, 720	526,713 4,109,466 165,058 14,735,464	176,128 1,639,674 97,074 5,641,744	708 5,647 54 10,915
Morrow Multnomah Polk Sherman	14 879 50 9	28, 713 575 22	21,528 41,313,793 796,886 24,017	2,472 10,309,294 44,002 1,405	75, 471 125, 716, 200 1, 654, 055 44, 047	138, 546 214, 932, 519 3, 030, 645 96, 347	63,075 89,216,319 1,376,590 52,300	80,593 2,418
Tillamook. Umatilla. Union. Wallowa.	81 81 59 44	883 466 1,314 474	1,171,751 592,028 1,778,863 648,929	89,946 86,405 67,955 71,925	2,794,490 4,841,131 2,998,103 808,868	4, 825, 452 6, 318, 556 5, 625, 771 1, 921, 515	2,030,962 1,477,425 2,627,668 1,112,647	2,870 4,452 3,465
Wasco Washington Wheelet Yambill	. 68	613 1,022 23 650	684,821 1,311,473 25,419 719,277	144, 616 199, 802 856 56, 856	5,076,048 3,697,077 28,064 3,560,955	6, 739, 460 6, 246, 244 82, 537 5, 174, 583	1, 663, 412 2, 549, 167 54, 473 1, 613, 628	6,196 378

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

															====
	ishments.	WAG EARNI		VALUE PRODUC		VALU ADDED MANU TUR	BY FAC-		olishments.	WAG EARNI		VALUE PRODUC		VALU. ADDED MANUF. TURE	BY AC-
INDUSTRY.	Number of establishments.	Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	industry.	Number of establishments.	Average number.	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.
All industries	625	58, 559 22, 884 822		\$366, 783 85, 348	23. 3	53, 213	33.1	Food preparations, not elsewhere specified. Condensed milk.	13 8	169 180	0.3 0.3	\$4,218 4,180	1.1 1.1	\$574 927	0.3 0.6
Flour-mill and gristmill products Foundry and machine-shop prod- ucts	116 121 21	822 3,265 772	1.4 5.6 1.3	42,550 21,136 15,868	5.8 4.3	2,119	7.7 1.3	Boxes, wooden packing, except cigar boxes. Coffee, roasting and grindingConfectionery and ice cream	20 8 37	610 106 450	1.0 0.2 0.8	4,112 3,590 3,466	1.1 1.0 0.9	2,001 612 1,246	1.2 0.4 0.8
Shipbuilding, wooden, including boat building.	30	2,990	5.1	13, 778	3.8	6,924	4.3	Printing and publishing, book and job	122	567	1.0	3,396	0.9	2,138	1.3
Canning and preserving, fruits and vegetables. Bread and other bakery products Butter	59 146 76 36	1,720 1,076 349 476	2.9 1.8 0.6 0.8	12,266 9,031 8,728 6,531	3.3 2.5 2.4 1.8	4,050 3,322 1,289 1,867	2.5 2.1 0.8 1.2	Woolen goods Furniture Gas, illuminating and heating Cheese	5 23 11 52	808 895 334 66	1.4 1.5 0.6 0.1	3,357 3,183 2,927 2,854	0.9 0.9 0.8 0.8	1,410 1,962 2,109 310	0.9 1.2 1.3 0.2
Canning and preserving, fish. Cars and general shop construction and repairs by steam-railroad companies.	21	2,751	4.7	6,473	1.8	4,019	2.5	Automobile repairing Clothing, men's Saddlery and harness Pickles, preserves, and sauces	229 5 33 8	727 481 182 148	1.2 0.8 0.3 0.3	2,605 2,034 1,931 1,794	0.7 0.6 0.5 0.5	1,814 705 993 308	1.1 0.4 0.6 0.2
Printing and publishing, news- papers and periodicals Structural ironwork, not made in steel works or rolling mills	224 6	929 1,111	1.6 1.9	6,408 6,392	1.7	4,764 2,544	3.0 1.6	Copper, tin, and sheet-iron work Mineral and soda waters	63 33 16	204 109 99 12, 195	0.3 0.2 0.2 20.8	1,339 1,083 1,064 79,337	0.4 0.3 0.3 21.6	741 422 484 38,023	0.5 0.3 0.3 23.7
Lumber, planing-mill products, not including planing mills connected with sawmills.	61	1,084	1.9	5,804	1.6	2,526	1.6	All other industries 1	119	12, 150					Ļ

¹ Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are seven having products in excess of some for which figures are shown in the table. These industries are as follows: "Bags, other than paper, not including bags made in textile mills"; "oars, steam-railroad, not including operations of railroad companies"; "engines, steam, gas, and water"; "paper and wood pulp"; "shipbuilding, steel"; "tinware, not elsewhere specified"; and "wool pulling."

MANUFACTURES—OREGON.

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

	Cen-		76.1	Fe-		CENT OTAL.		Cen-			Fe-	PER (
CLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male.	CLASS.	sus year.	Total.	Male.	male.	Male.	Fe- male.
All classes	1919 1914 1909	68, 005 35, 449 34, 722	61, 519 32, 625 31, 849	6, 486 2, 824 2, 873	90. 5 92. 0 91. 7	9. 5 8. 0 8. 3	Clerks and other subordinate salaried employees.	1919 1914 1909	4, 495 2, 990 2, 253	2, 963 2, 315 1, 702	1,532 675 551	65. 9 77. 4 75. 5	34.1 22.6 24.5
Proprietors and officials	1919 1914 1909	4, 951 3, 630 3, 719	4, 810 3, 545 3, 667	141 85 52	97. 2 97. 7 98. 6	2.8 2.3 1.4	Wage earners (average number)	1919 1914 1909	58, 559 28, 829 28, 750	53, 746 26, 765 26, 480	4,813 2,064 2,270	91. 8 92. 8 92. 1	8.2 7.2 7.9
Proprietors and firm members	1919 1914 1909	2, 540 2, 189 2, 499	2, 463 2, 117 2, 453	77 72 46	97. 0 96. 7 98. 2	3.0 3.3 1.8	16 years of age and over	1919 1914 1909	58, 409 28, 742 28, 652	53, 646 26, 728 26, 406	4, 763 2, 014 2, 246	91. 8 93. 0 92. 2	8. 2 7. 0 7. 8
Salaried officers of corporations	1914 1909	917 537 344	878 527 340	39 10 4	95.7 98.1 98.8	4.3 1.9 1.2	Under 16 years of age	1919 1914 1909	150 87 98	100 37 74	50 50 24	66. 7 42. 5 75. 5	33.3 57.5 24.5
Superintendents and managers	1919 1914 1909	1, 494 904 876	1, 469 901 874	25 3 2	98.3 99.7 99.8	1.7 0.3 0.2							14. 14.14. 14.14.14.14.14.14.14.14.14.14.14.14.14.1

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

And the state of t		Wage	PER CI	ENT OF	FOTAL.			Wage	PER CE	ENT OF TOTAL.
INDUSTRY.	Cen- sus year.	earners (aver- age num-	16 year and	s of age over.	Un- der 16	INDUSTRY.	Cen- sus year.	earners (aver- age num-		s of age Un- over. der 16
		ber).	Male.	Fe- male.	years of age.	69		ber).	Male.	Fe-male. years of age.
Ali industries	1919 1914 1909	58, 559 28, 829 28, 750	91.6 92.7 91.8	8.1 7.0 7.8	0.3 0.3 0.4	Foundry and machine-shop products	1919 1914	3, 265 660	99, 4 100, 0	0.2 0.4
Automobile repairing	1919 1914	727 185	97. 8 99. 5	1.7	0.6	Furniture	1919 1914	895 673	94. 5 99. 1	5. 5
Boxes, wooden packing, except cigar boxes	1919 1914	610 327	85.6 - 94.8	14.1 4.3	0.3 0.9	Gas, illuminating and heating.	1919 1914 1919	334 385	100.0	1.7 0.1
Bread and other bakery products	1919 1914	1,076 700	63.7 74.8	34.9 24.6	1.4 0.6	Lumber and timber products	1914	22,884 12,829	98. 2 99. 6 95. 2	0.3 (2)
Butter	1919 1914	349 260	83.7 92.7	16.0 7.3	0.3	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills. Printing and publishing, book and job	1914 1914	1,084 732 567	100. 0	21.9 1.4
Canning and preserving, fish	1919 1914	476 301	88, 2 90, 4	11.8 9.6		Printing and publishing, newspapers and	1914	515 929	83. 7 87. 3	15.1 1.2 10.7 2.0
Canning and preserving, fruits and vege- tables	1919 1914	1,720 417	39. 2 33. 6	58.8 63.5	2.0 2.9	periodicals. Shipbuilding, wooden, including boat build-	1914	945 2,990	88. 0 99. 6	10.7 1.3
Cars and general shop construction and repairs by electric-railroad companies.	1919 1914	230 225	99. 1 98. 7	0.9 1.3		ing. Slaughtering and meat packing	1914	2,990 163 772	100. 0	12.3 0.3
Cars and general shop construction and repairs by steam-railroad companies.	1919 1914	2,751 1,601	98.4 99.9	1.6	0.1	Structural iron work, not made in steel works	1914	442 1.111	96. 4	3.6
Clothing, men's 1	1919	481	14.8	85.0	0.2	or rolling mills,	1914	161	100.0	
Confectionery and ice cream	1919 1914	450 402	41.6 33,1	58.4 60.4	6.5	Woolen goods	1919 1914	808 648	58. 5 61. 4	45. 8 0. 7 37. 7 0. 9
Copper, tin, and sheet-iron work	1919 1914	204 212	100.0 100.0			All other industries	1919 1914	13,024 5,596	90. 4 85. 8	9.5 0.2 14.0 0.2
Flour-mill and gristmill products	1919 1914	822 450	97.8 100.0	2,2			j.	s vilari	lasia ya	

¹ Not shown separately in 1914.

TABLE 6.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

		AVE	AGE NU	MBER OF		CARNERS	IN MA	NUFACTI	URING D	NDUSTR	ES.				
CITY.		Total.		16 years of age and over. Under 16 years of age. Wale. Female.										UE OF PRODUC	
en die een van die een br>Die een die ee				Male. Female. of age.											
 Description of the property of th	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Astoria Eugene. Portland. Salem.	1,404 534 26,813 1,080	1,172 238 11,273 732	12,214 597	1,274 358 24,143 762	1,125 187 9,875 409	10,596 452	130 176 2,633 310	46 51 1,353 310	1,600 144	37 8	1 45 13	18 1	\$13,398,627 2,489,647 196,380,146 9,435,070	\$4, 587, 301 810, 346 55, 697, 440 2, 845, 844	\$46, 860, 767 2, 208, 031

² Less than one-tenth of 1 per cent.

TABLE 7.—WAGE EARNERS, BY MONTHS: 1919, 1914, AND 1909.

MONTH.	1	TUMBER.1		PE	R CENT		MONTH.		NUMBER.1			R CENT	
	1919	1914	1909	1919	1914	1909	1 P T 3	1919	1914	1909	1919	1914	1909
January February Mareh April May June	55,393 54,251 57,708 59,180 61,804 61,122	26, 154 26, 715 28, 527 30, 806 31, 596 31, 540	23, 554 24, 833 26, 859 29, 179 30, 302 30, 806	88. 6 86. 8 92. 4 94. 7 98. 9 97. 8	82.8 84.0 90.3 97.5 100.0 99.8	75. 4 80. 2 86. 7 94. 2 97. 8 99. 4	September	61,965 62,488 60,261 60,641 58,396 49,409	31,095 30,505 29,243 28,421 26,531 24,815	30, 175 30, 269 30, 978 30, 402 29, 423 28, 416	99. 2 100. 0 96. 4 97. 0 93. 5 79. 2	98. 4 96. 6 92. 6 90. 0 84. 0 78. 5	97.4 97.7 100.0 98.1 95.0 91.7

The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by bold-faced figures, minimum by italic figures.

TABLE 8.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

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

	Aver-	N	JMBER I	EMPLOYE	D ON 151	H DAY (OF THE 1	MONTH O	R NEARI	est repi	RESENTA	TIVE DAY		Per
INDUSTRY AND CITY.	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.
All industries. Males. Females.	58,559 53,746 4,813	55,393 51,515 3,878	54,251 50,678 3,573	57,708 54,267 8,441	59,180 55,675 3,505	61,804 58,069 8,735	61, 122 56, 128 4, 994	61,965 55,956 6,009	62,488 56,287 6,201	60,261 53,856 6,405	60, 641 54, 718 5, 923	58,396 53,027 5,369	49,499 44,776 4,723	79. 2 77. 1 53. 7
Automobile repairing. Boxes, wooden packing, except cigar boxes. Bread and other bakery products. Butter. Canning and preserving, fish	727 610 1,076 349 476	608 573 1,066 292 115	617 437 1,045 311 130	661 485 1,029 324 171	697 571 1,041 358 247	723 563 1,028 382 557	732 670 1,076 414 572	761 814 1,113 398 796	798 826 1,102 394 940	810 644 1,086 373 839	798 639 1,099 338 630	770 576 1,126 320 523	749 522 1,101 284 192	75.1 52.9 91.3 68.6 12.2
Canning and preserving, fruits and vegetables	1,720 230 2,751 481	775 239 2,678 489	362 228 2,680 435	236 236 2,721 596	309 225 2,648 404	497 221 2,608 486	1,847 226 2,551 429	2,875 227 2,639 506	3,004 227 2,726 501	3,676 224 2,785 464	3,008 231 2,855 516	2,423 237 2,976 543	1,598 239 3,145 603	7.2 92.5 81.1 65.7
Confectionery and ice cream	450 204 822 3, 265 895	401 153 855 4,856 734	392 162 826 4,550 748	403 169 824 4,154 777	430 185 785 3,555 785	456 180 760 3,162 847	471 201 690 3,199 899	450 234 652 3,234 957	449 237 830 2,966 984	474 226 848 2,707 973	494 248 895 2,441 1,006	484 228 940 2, 234 1, 012	496 225 959 2,122 1,018	79.0 61.7 68.0 43.7 72.1
Gas, illuminating and heating. Lumber and timber products. Lumber, planing-mill products, not including planing mills connected with sawmills. Printing and publishing, book and job. Printing and publishing, newspapers and periodi-	334 22,884 1,084 567	261 15,787 794 567	287 16,585 835 558	280 18,735 830 549	286 21,720 908 551	288 24,357 978 570	322 24,957 1,090 565	322 26,074 1,232 554	27, 697 1, 311 559	390 26,830 1,229 546	406 26,314 1,303 581	25,008 1,274 586	20,544 1,224 618	63. 0 57. 0 60. 6 88. 3
cals	929 2,990 772	7,882 7,830 927	6,563 881	4,862 904	3,377 739	921 3,060 732	926 2,531 715	928 2,238 698	929 1,560 72 6	1,471 718	957 674 712	992 726 744	999 988 768	87. 8 8. 6 75. 3
Structural ironwork, not made in steel works or rolling mills. Woolen goods. All other industries.	1,111 808 13,024	97 731 13,683	86 722 13,934	930 701 16,412	972 756 16,723	891 786 16,751	685 805 14,549	690 834 12,739	726 848 11,803	651 909 10,448	3,346 886 10,264	2,870 863 10,534	1,388 855 8,448	2.6 77.1 50.5
Industries showing large proportion of females.			1			112								
Bread and other bakery products Canning and preserving, fruits and vegetables Clothing, men's. Confectionery and ice cream.	386 1,039 409 263	381 378 425 238	374 93 373 234	354 50 334 227	373 57 340 251	555 162 417 255	1,282 355 266	2,003 421 244	403 2,111 415 242	2,419 399 277	397 1,813 449 299	1,324 470 306	390 781 510 317	84. 2 2. 1 65. 5 71. 6
Printing and publishing, book and job. Printing and publishing, newspapers and periodicals. Woolen goods.	124 100 376	129 91 340	126 94 331	128 94 527	95 348	95 370	98 374	116 102 393	118 104 396	116 103 426	118 105 413	124 109 396	129 110 398	86.6 82.7 76.8
Total for cities	29,831 26,562 3,269	33,007 30,237 2,770	31,867 29,257 2,610	33,789 31,270 2,519	32,333 29,739 2,594	32,549 29,837 2,712	30,917 27,331 3,586	29,898 25,957 3,941	28,725 24,694 4,031	26,699 22,805 3,894	28,173 24,317 3,856		23,065 19,858 3,207	68. 3 63. 5 62. 5
Astoria Males Females.	1,404 1,274 130	1,871 1,769 102	1,658 1,559 99	1,700 1,591 109	1,376 1,253 123	1,474 1,336 138	1,120 981 139	1,353 1,197 156	1,640 1,443 197	1,384 1,233 151	1,120 989 131	1,125 1,015 110	1,027 922 105	54.9 52.1 50.3
EUGENE Males	534 358 176	354 288 66	354 293 61	373 306 67	399 326 73	414 338 76	755 393 362	772 409 363	793 426 367	660 395 265	640 381 259		447 369 78	44.6 67.6 16.6
PORTLANDMales	26, 813 24, 167	29,938 27,546 2,392	29, 150 26, 792 2, 358	28,745	29, 838 27, 547 2, 291	29, 932 27, 533 2, 399	27, 840 25, 220 2, 620	26,514 23,539 2,975	24,835 21,950 2,885	23, 130 20, 232 2, 898	25,050 21,999 3,051	21,114	20,564 17,787 2,777	66. 4 61. 9 73. 6
Females. Salem Males Females.	1,080 763	814 634 210	705 613 92		720 613 107	729 630 99	1,202 737 465	812	1,457 875 582	1,525 945 580	948	941	1,027 780 247	46. 2 64. 7 15. 8

Table 9.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

	Census		IN ESTAB	LISHMENTS	WHERE TI	IE PREVAIL	ING HOUR	OF LABOR	PER WEEL	WERE-
INDUSTRY AND CITY.	year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.	1919 1914 1909	58, 559 28, 829 28, 750	11,975 (2) (2)	477 (2) (2)	39, 915 3, 979 3, 396	458 775 762	1, 892 6, 917 3, 880	1, 829 1, 324 1, 030	1,774 14,839 17,861	239 995 1,821
Automobile repairing.	1919 1914	727 185	52 (2)	(2) 6	376 54	17	223 117	20	31 11	2 2
Boxes, wooden packing, except eigar boxes	1919 1914	610 327	(2)	(2)	509 2	28	57 88	91	16 146	
Bread and other bakery products	1919 1914	1, 076 700	79 (2)	(²)	914 61	8 191	43 314	11 16	21 101	i7
Butter	1919 1914	349 260	(²)	(2)	137 17	22 6	73 54	23 8	65 83	28 92
Canning and preserving, fish	1919 1914	476 301	(2)	(2)	221 14		76 117	30	129 107	9 63
Canning and preserving, fruits and vegetables.	1919 1914	1,720 417	(2)	(2)	724 19	19	382 318	23	606 34	5
Cars and general shop construction and repairs by electric-railroad companies.	1919 1914	230 225	(2)	. 55 (²)	173		164	2	60	
Cars and general shop construction and repairs by steam-railroad companies.	1919 1914	2,751 1,601	(2)	(2)	1,569 56			1, 153	29 30	101
Clothing, men's	1919	481	311		170		1,414			
Confectionery and ice cream.	1919 1914	450 402	(²)	(2)	345 31	4 89	10 148	93	4	82 37
Copper, tin, and sheet-iron work-	1919 1914	204 212	156 (²)	(i)	47 183	4	1 25			
Flour-mill and gristmill products	1919 1914	822 450	(2)	(2)	399 50	2 3	49 14	166	203 383	3
Foundry and machine-shop products	1919 1914	3,265 660	528	(2)	2,678 86	13 11	44 484		2 2	65
Furniture.	1919 1914	895 673	(2) 7	(2)	881 240		7 13	119	301	
Gas, illuminating and heating	1919 1914	334 385	(2)	(2)	25 350		19	302 8		7 8
Lumber and timber products	1919 1914	22, 884 12, 820	18		21,992 84	85 9	283 870	6 110	336 11,756	
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919 1914	1,084 732	(*) 57 (*)	(2)	968 81	10 33	40 155	110	9 351	
Printing and publishing, book and job-	1919 1914	567 515	(1) 31	(3)	522 491	5	19			
Printing and publishing, newspapers and periodicals.	1919 1914	929 945	(2) 87	8 (2)	785 790	32 37	15 103	. 1	13	1 2
Shipbuilding, wooden, including boat building	1919 1914	2,990 163	2, 409 (3)	1 :	- 577 154	4	8		i	
Slaughtering and meat packing	1919 1914	772 442	(2)	1	647	7	85 5	12 14	16 395	i2
Structural ironwork, not made in steel works or rolling mills	1919 1914	1, 111 161	1,096 (²)	1	15 9		152			
Woolen goods	1919 1914	808 648			434		191 25	226	183 397	
All other industries	1919 1914	13, 024 5, 596	7,108 (²)	230 (²)	4, 807 1, 197	233 360	313 2, 291	103 492	128 664	102 592
Total for cities.	1919	29, 831	11, 518 (2)		16, 010 2, 833	296	707	527	330	131 313
ASTORIA	1914	18,415 1,404 1,172	461	8	835	668	4, 489	627	4, 485	
Eugene	1914 1919 1914	1,172 534 238	(2)	(2)	91 344	10 12	199 112	10	847	30 8
POBILAND.	Į.	, ,	(²) 10, 999	(²) 304	48	1	51 332	92 480	50 32 8	8 3 123
Salem	1919 1914 1919	26, 813 11, 273	10, 999 ([‡]) 58		14, 285 2, 558 546	· 282 629	3,987	386	3, 433 253	123 280
	1914	1,080 732	(2)	(2)	546 136	27	204 252	144	253 173	

¹ Includes 48 and under for 1914 and 1909.

² Corresponding figures not available.

TABLE 10.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

	то	TAL.						E	STABLIS	HME	NTS EM	PĽOYI	NG—						
INDUSTRY AND CITY	ents.	rs (average oer).	No wage earn- ers.	wa earr	o 5 ige iers, isive.	w ear	o 20 age ners, usive.	ear	to 50 age ners, usive.	ea	to 100 vage rners, lusive.	ear	to 250 rage mers, lusive.	ea:	to 500 vage rners, lusive.	ea:	to 1,000 vage rners, lusive.	77	r1,000 rage ners.
	Establishments.	Wage earners (s. number).	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wago carners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
All industries	2,707	58,559	388	1, 421	3,136	526	5,854	165	5,476	84	6,090	81	12, 623	26	8,609	12	8, 194	4	8,577
Automobile repairing. Boxes, wooden packing, except cigar boxes. Bread and other bakery products. Butter Canning and preserving, fish	229 20 146 76 36	727 610 1,076 349 476	19 2 27 6 1	186 3 93 57 14	399 9 228 125 48	18 8 17 11 15	172 109 177 130 188	6 2 4 1 5	156 66 115 32 160	3 1 1	230 199 62 80	1 2	196 357						
Canning and preserving, fruits and vegetables. Cars and general shop construction and re- pairs by electric-railroad companies. Cars and general shop construction and re- pairs by steam-railroad companies.	59 4 21	1,720 230 2,751		19 1	35 2	16 6	198	16 1 3	522 43 82	4 1 5	372 55 328	4 1 4	595 130 543	2	881	1	855		
Clothing, men's	5 37 63 116 121	481 450 204 822 3, 265	5 12 28 10	21 41 63 50	53 81 150 105	1 5 8 17 39	17 50 70 182 405	1 3 2 5 10	23 108 53 144 316	1 3 1 6	66 239 66 384	1 2 4	103 280 517	1	272 257			1	1, 281
Furniture	23 11 625 61	895 334 22,884 1,084	40 40	5 4 305 28 70	14 10 748 65	5 6 130	55 54 1,449	5 55 8	191 1,936 233 96	2 30 5	144 2,248 338	2 	491 6, 269 278	1 19	270 6,204	6	4,035		
Printing and publishing, book and job Printing and publishing, newspapers and periodicals. Shipbuilding, wooden, including boat building. Slaughtering and meat packing.	122 224 30 21	567 929 2,990 772	30 92 2 1	70 100 13 9	143 164 23 27	17 27 2 10	293 30 139	3 2 1	96 80 28	1 1	138 72 86	2 9	320 1,535			2	1,288 606		
Structural ironwork, not made in steel works or rolling mills	6 5 046	1,111 808 13,024	105	1 338	4 708	3 151	43 1,673	1 1 30	33 43 1,016	1 12	81 902	2 5	293 716	1 1	391 334	2	1,410	1 2	1,031 6,265
Total for cities	1,000	29, 831	160	476	1,107	250	2,832	77	2, 490	43	3, 123	35		12	4,042	3	2,142	4	8,577
ASTORIA EUGENE PORTLAND SALEM	78 52 846 84	1,404 534 26,813 1,080	10 9 119 22	39 27 377 33	85 63 885 74	15 13 201 21	187 147 2,249 249	70 2	2, 264 78	4 2 34 3	294 135 2,432 262	5 1 26 3	690 189 4, 222 417	12	4,042	3	2, 142	4	8,577

TABLE 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.	NUMBE	R OF EST MENTS.	ABLISH-		GE NUME DE EARNE		VAL	UE OF PRODUC	TS.	VALUE ADI	DED BY MANU	FACTURE.
And de Induction	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes	2,707	2, 320	2, 246	58, 559	28,829	28,750	\$ 366,782, 62 7	\$109, 761, 951	\$93,004,845	\$160, 576, 586	\$46,504,130	\$42, 452, 375
Less then \$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.	664 851 712 343 68 69	907 752 451 171 26 13	789 786 482 } 181 8	373 2,229 6,130 { 11,296 8,630 26,901	927 2,618 5,549 } 16,447 3,288	957 3,214 7,104 15,110 2,365	1,691,344 9,077,091 31,975,446 77,258,954 46,693,045 200,086,747	2, 220, 810 7, 809, 972 19, 682, 477 37, 673, 837 17, 229, 026 25, 145, 829	1,926,913 8,203,981 21,453,056 } 47,022,078 14,398,817	1, 179, 409 5, 834, 548 16, 214, 557 33, 695, 754 21, 081, 227 82, 571, 091	1,522,173 4,684,557 8,990,230 24,344,165 6,963,005	1,343,938 5,082,474 10,626,549 20,766,801 4,632,613
					7		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. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.	24. 5 31. 4 26. 3 12. 7 2. 5 2. 5	39. 1 32. 4 19. 4 7. 4 1. 1 0. 6	35. 1 35. 0 21. 5 8. 1 0. 4	0.6 3.8 10.5 24.4 14.7 45.9	3.2 9.1 19.2 57.1 11.4	3. 3 11. 2 24. 7 52. 6 8. 2	0.5 2.5 8.7 21.1 12.7 54.6	2. 0 7. 1 17. 9 34. 3 15. 7 22. 9	2. 1 8. 8 23. 1 50. 6 15. 5	0.7 3.6 10.1 21.0 13.1 51.4	3.3 10.1 19.3 52.3 15.0	3, 2 12, 0 25, 0 48, 9 10, 9

Table 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1914.

	וא		OF ES			erage 1 Wage e			VAI	LUE OF PROD	oucts.		VALUE AD	DED BY MAI	NUFACTI	URE.
INDUSTRY AND VALUE OF PRODUCT.	1010	1914	Per distrib	cent oution.	1919	1914		cent oution.	1919	1914	Per distrib	cent oution.	1919	1914	Per distrib	
	1919	1914	1919	1914	1313	1011	1919	1914	1010	1011	1919	1914	1010		1919	1914
BREAD AND OTHER BAKERY PRODUCTS	146	163	100.0	100.0	1,076	700	100. 0	100.0	\$9,031,478	\$3,325,789	100.0	100.0	\$ 3,322,409	\$1 , 446, 261	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 and over.	22 56 54 10 4	66 69 20 1 8	15. 1 38. 4 37. 0 6. 8 2. 7	40. 5 42. 3 12. 3 4. 9	73 255 257 487	33 129 131 1 407	0.4 6.8 23.7 23.9 45.3	4.7 18 4 18.7 58.1	62,701 632,683 2,200,397 2,142,419 3,993,278	190, 113 614, 951 617, 490 11, 903, 235	0.7 7.0 24.4 23.7 44.2	5.7 18.5 18.6 57.2	25, 358 246, 389 786, 211 701, 522 1, 562, 929	85, 565 280, 853 245, 640 1 834, 203	0.8 7.4 23.7 21.1 47.0	5. 9 19. 4 17. 0 57. 7
BUTTER	<u>76</u>	$\frac{72}{7}$	100.0	9.7	349	260	100, 0	100.0	8,727,869	4,268,652 19,173	100.0	100.0	1,289,211	689, 150 3, 706	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.	9 39 25 3	22 33 110	11.8 51.3 32.9 3.9	30, 6 45. 8 13. 9	84 150 111	3 24 108 1 125	1.1 24.1 43.0 31.8	9. 2 41. 5 48. 1	99, 967 2, 127, 740 4, 429, 986 2, 070, 176	294, 353 1, 597, 955 12, 357, 171	1.1 24.4 50.8 23.7	6. 9 37. 4 55. 2	16,831 308,014 647,593 816,743	46, 330 277, 252 1 361, 862	1, 3 23, 9 50, 2 24, 6	6.7 40.2 52.5
CANNING AND PRESERVING,	36	25	100.0	100.0	476	301	100.0	100.0	6,531,462	2,929,657	100, 0	100.0	1,866,974	1,054,162	100, 0	100.0
Less than \$100,000	22 10 4	14 1 11	61. 1 27. 8 11. 1	56. 0 44. 0	117 185 174	62 1239	24.6 38.9 36.6	20.6 79.4	975, 461 2, 337, 010 3, 218, 991	534,783 1 2,394,874	14. 9 35. 8 49. 3	18.3 81.7	266, 969 755, 733 844, 272	170, 716 1 883, 446	14. 5 40. 5 45. 2	16. 2 83. 8
CANNING AND PRESERVING, FRUITS AND VEGETABLES	59	37	100.0	100.0	1,720	417	100.0	100.0	12,265,651	1,552,077	100.0	100.0	4,050,163	493, 918	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	4 11 15 20 6 3	17 8 6 6	6. 8 18. 6 25. 4 33. 9 10. 2 5. 1	45. 9 21. 6 16. 2 16. 2	28 187 642 547 312	33 35 95 254	0. 2 1. 6 10. 9 37. 3 31. 8 18. 1	7. 9 8. 4 22. 8 60. 9	13, 426 142, 373 814, 147 3, 381, 646 3, 990, 045 3, 924, 014	36,430 79,395 258,923 1,177,329	0, 1 1, 2 6, 6 27, 6 32, 5 32, 0	2, 3 5, 1 16, 7 75, 9	7,597 65,542 291,152 1,140,643 1,350,749 1,194,480	16, 784 33, 105 50, 405 393, 624	0. 2 1. 6 7. 2 28. 2 33. 3 29. 5	3.4 6.7 10.2 79.7
FLOUR-MILL AND GRISTMILL PRODUCTS.	116	95	100.0	100.0	822	450	100.0	100.0	42, 549, 987	11, 192, 573	100.0	100.0	4,748,239	1,365,342	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$1,000,000 and over.	11 29 36 130 10	10 31 35 1 16 3	9. 5 25. 0 31. 0 25. 9 8. 6	10. 5 32. 6 36. 8 16. 8 3, 2	1 14 77 1211 519	3 28 83 1 141 195	0.1 1.7 9.4 25.7 63.1	0.7 6.2 18.4 31.3 43.4	27,667 344,526 1,678,110 18,508,076 31,991,608	31,958 394,850 1,582,655 13,833,184 5,349,926	0.1 0.8 3.9 20.0 75.2	0.3 3.5 14.1 34.3 47.8	5,447 72,684 271,325 1 995,988 3,402,795	7, 192 72, 103 244, 268 1 530, 752 511, 027	0. 1 1. 5 5. 7 21. 0 71. 7	0.5 5.3 17.9 38.9 37.4
FOUNDRY AND MACHINE- SHOP PRODUCTS	121	98	100.0	100.0	3,265	660	100.0	100.0	21, 136, 153	1,870,540	100.0	100.0	12,413,037	1,090,248	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$5,000 to \$100,000. \$100,000 to \$100,000. \$100,000 to \$1,000,000. \$51,000,000 and over.	17 38 44 16 3	33 42 19 4	14. 0 31. 4 36. 4 13. 2 2. 5 2. 5	33.7 42.9 19.4 4.1	9 83 443 711 327 1,692	37 166 270 187	0.3 2.5 13.6 21.8 10.0 51.8	5.6 25.2 40.9 28.3	40,019 391,641 1,971,762 3,484,829 1,853,994 13,393,908	88, 284 446, 436 792, 740 543, 080	0. 2 1. 9 9. 3 16. 5 8. 8 63. 4	4.7 23.9 42.4 29.0	27,750 272,741 1,205,697 2,218,244 1,306,937 7,381,668	64, 457 288, 192 430, 330 307, 269	0. 2 2. 2 9. 7 17. 9 10. 5 59. 5	5.9 26.4 39.5 28.2
LUMBER AND TIMBER PROD-	625	489	100.0	100.0	22,884	12,829	100.0	100.0	85,347,711	27,509,638	100.0	100.0	53,213,068	15,020,570	100.0	100.0
Less than \$5,000		206 116 57 46 11 3	25. 6 32. 5 21. 3 13. 4 3. 7 3. 5	46. 9 26. 4 13. 0 10. 5 2. 5 0. 7	131 847 1,922 6,401 4,718 8,865	350 737 1,295 19,144 1,303	0.6 3.7 8.4 28.0 20.6 38.7	2.7 5.7 10.1 71.3	383, 506 2, 226, 456 6, 074, 881 22, 429, 267 15, 940, 725 38, 292, 876	430,064 1,137,371 2,220,877 11,651,283 7,272,195 4,797,848	0.4 2.6 7.1 26.3 18.7 44.9	1.6 4.1 8.1 42.4 26.4 17.4	313,640 1,779,614 4,451,288 13,218,817 10,536,539 22,913,170	351, 824 863, 742 1, 493, 933 110, 314, 554	0.6 3.3 8.4 24.8 19.8 43.1	2, 3 5, 8 9, 9 68, 7
Lumber, planing-mill prod- ucts, not including plan- ing mills connected with sawmills.	618	69	100. 0	100.0	1,084	732	100.0	100. 0	5,804,349	2, 378,642	100. 0	100.0	2,526,063	1,020,093	100, 0	100.0
Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000.	18 19 116	16 25 21 7	13. 1 29. 5 31. 1 26. 2	23. 2 36. 2 30. 4 10. 1	38 183 1859	14 82 273 363	0. 4 3. 5 16. 9 79. 2	1. 9 11. 2 37. 3 49. 6	20, 248 200, 367 886, 893 14,696, 841	34,958 286,922 836,501 1,220,261	0. 3 3. 5 15. 3 80. 9	1. 5 12. 1 35. 2 51. 3	11,093 86,457 405,374 12,023,139	18, 578 135, 869 370, 845 494, 801	0. 4 3. 4 16. 0 80. 1	1, 8 13, 3 36, 4 48, 5
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODI- CALS.	224	251	100.0	100. 0	929	945	100.0	100.0	6, 408, 348	4, 126, 752	100.0	100.0	A 704 957	9 140 1ro	100.0	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$20,000 to \$100,000 \$500,000 and over	116 65 37 3 3	147 73 27 24	51. 8 29. 0 16. 5 1. 3 1. 3	58.6 29.1 10.8 1.6	56 119 283 80 391	118 150 221 2 456	6. 0 12. 8 30. 5 8. 6 42. 1	12. 5 15. 9 23. 4 48. 3	296, 362 636, 405 1, 526, 486 447, 550 3, 501, 545	358, 534 734, 683 962, 406 22, 071, 129	4.6 9.9 23.8 7.0 54.6	8.7 17.8 23.3 50.2	4,764,257 235,886 525,253 1,239,574 377,907 2,385,637	303,037 629,576 795,091 1,420,448	5. 0 11. 0 26. 0 7. 9 50. 1	9.6 20.0 25.3 45.1
SHIPBUILDING, WOODEN, IN- CLUDING BOAT BUILDING	30	20	100.0	100.0	2,990	163	100.0	100.0	13,777,615	332,074	100.0	100.0	6,924,053	217, 626		
Less than \$5,000. \$5,000 to \$29,000. \$20,000 to \$100,000. \$10,000 to \$500,000. \$1,000,000 and over.	10 4 4 4 12 10 4	9 . 7 . 5 4	13. 3 40. 0 33. 3 13. 3	45.0 35.0 20.0	1,164 1,784	30 5 131	(3) 1.4 38.9 59.7	1. 2 18. 4 80. 4	9,091 4 123,982 3,762,890 9,881,652	14,672 67,862 \$ 249,540	0, 1 0, 9 27, 3 71, 7	4, 4 20, 4 75, 1	5,833 475,073 2,215,122 4,628,025	10, 398 40, 734 5 166, 494	100. 0 0. 1 1. 1 32. 0 66, 8	100.0 4.8 18.7 76.8
SLAUGHTERING AND MEAT PACKING	21	14	100.0	100.0	772	442	100.0	100.0	15, 868, 169	7, 486, 920	100.0	100.0	2, 118, 836	1,284,465	100. 0	100.0
\$5,000 to \$20,000. \$20,600 to \$100,000. \$100,000 to \$500,000. \$500,000 and over	3 6 9 3	6 8 7 G	14. 3 28. 6 42. 9 14. 3	57. 1 42. 9	3 119 112 638	6 24 7 418	0. 4 2. 5 14. 5 82. 6	5. 4 91. 6	48,737 248,468 2,068,508 13,502,456	* 379,910 * 7,107,010	0. 3 1. 6 13. 0 85. 1	5, 1 94, 9	19, 147 77, 381 473, 603 1, 548, 705	6 83, 557 7 1, 200, 908	0. 9 3. 7 22. 4 73. 1	6.5

¹ Includes the group ''\$500,000 to \$1,000,000."
2 Includes the groups ''\$500,000 to \$1,000,000" and '\\$1,000,000 and over."
3 Less than one-tenth of 1 per cent.

Includes the group ''\$20,000 to \$100,000."
Includes the group ''\$1,000,000 and over."
Includes the group ''\$1,000,000 to \$500,000."

TABLE 13.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919.

	estab-	WA EARN	GE ERS.	» VALUE PRODUC		VALUE ADI MANUFAC			stab- s.	WA EARN		VALUE PRODUC		VALUE ADD MANUFACT	
PRODUCT	Number of lishmen	Average num- ber.	Per cent of total.	Amount.	Per cent of total	Amount,	Per cent of total.	CITY AND VALUE OF PRODUCT.	Number of estab lishments.	Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ASTORIA	78	1,404	100.0	\$13, 398, 627	100.0	\$4,128,053	100.0	SALEM	84	1,080	100.0	\$9,435,070	100.0	\$2,694,262	100.0
Less than \$5,000	6 33 21 12 6	62 187 761 892	0. 1 4. 4 13. 3 54. 2 27. 9	11, 913 339, 355 1, 045, 757 3, 598, 128 8, 403, 474	0. 1 2. 5 7. 8 26. 9 62. 7	8, 384 174, 022 529, 840 1, 595, 247 1, 820, 560	0. 2 4. 2 12. 8 38. 6 44. 1	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.	28 19 20 11 3	6 45 152 269 390 218	0.6 4.2 14.1 24.9 36.1 20.2	72,549 224,775 770,219 2,262,322 2,157,815 3,947,390	0. 8 2. 4 8. 2 21. 0 22. 9 41. 8	44,062 111,893 329,112 705,325 830,814 673,056	1.6 4.2 12.2 26.2 30.8 25.0
EUGENE	52	534	100.0	2, 489, 647	100.0	1,017,418	100.0	PORTLAND	846	26, 813	100.0	196, 380, 146	100.0	84,993,567	100.0
Less than \$5,000 \$5,000 to \$20,000 \$20,000 to \$100,000 \$100,000 and over	11 20 16 5	6 39 152 337	1. 1 7. 3 28. 5 63. 1	30, 497 183, 623 713, 365 1, 562, 162	1. 2 7. 4 28. 7 62. 7	22, 742 108, 217 415, 855 470, 604	2. 2 10. 6 40. 9 46. 3	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.	153 210 262 122 29 40	74 507 2,116 4,191 2,383 17,542	0. 3 1. 9 7. 9 15. 6 8. 9 65. 4	2,615,167 11,785,356 26,029,883	0. 2 1. 3 6. 0 13. 3 10. 1 69. 1		0.3 2.0 7.7 14.6 8.0 67.5

TABLE 14.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919 AND 1914.

- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					ΑV	ERAGE	NUMBE	R OF W	AGE EA	RNER	3.		Ψ.	LUE OF PEC	DUCTS.			
在1700年,1914年(1914年) 東京 中国 東東東 日本東京	101	ESTABI	BER LISHM ED BY	ENTS	43.53	1	ablishn	1		1 2/								
INDUSTRY AND CITY.	Cen- sus year.		ви в				ned by-		Per c	ent of	total.		Of establi	shments ov	vned by—	Per ce	nt ol t	otal.
ana 16 vininti ann a(VI) an dheagar	i ne	vid-		All oth- ers.	Total.	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.		All oth- ers.
All industries	1914	1,146 1,062 1,031	934 710 640	627 548 575	58, 559 28, 829 28, 750	2,678	24,047	4, 284 2, 104 3, 135	5. 8 9. 3 12. 4	86. 9 83. 4 76. 7	7.3 7.3 10.9	\$366,782,627 109,761,951 93,004,845	\$19,399,351 9,860,214 11,482,192	\$322,331,966 91,351,338 70,781,269	\$25,051,310 8,550,399 10,741,384	5.3 9.0 12.3	87. 9 83. 2 76. 1	6.8 7.8 11.5
Bread and other bakery products.	1919 1914	96 116	20 11	30 36	1,076 700	199 168	754 401	123 131	18.5 24.0	70.1 57.3	11. 4 18. 7	9,031,478 3,325,789	1,626,093 811,144	6,303,798 1,775,375	1,101,587 739,270	18.0 24.4	69. 8 53. 4	12. 2 22. 2
Butter	1919 1914	18 21	34 29	24 22	349 260	32 38	241 161	76 61	9. 2 14. 6	69. 1 61. 9	21. 8 23. 5	8,727,869 4,268,652	1,166,384 654,325	5,549,998 2,367,778	2,011,487 1,246,549	13. 4 15. 3	63. 6 55. 5	23. 0 29. 2
Canning and preserving, fish.	1919 1914	2 1	31 23	3	476 301		442 301	1 34		92. 9 100. 0	7.1	6,531,462 2,929,657		6, 190, 624 2, 929, 657	1 340, 838	.,	94.8 100.0	5.2
Canning and preserving, fruits and vegetables.	1919 1914	10 12	34 16	15 9	1,720 417	54 52	1,562 291	104 74	3. 1 12. 5	90. 8 69. 8	6.0 17.7	12,265,651 1,552,077	305, 114 91, 315	10, 254, 242 994, 995	1,706,295 465,767	2.5 5.9	83.6 64.1	13. 9 30. 0
Cars and general shop con- struction and repairs by	1919 1914		21 14		2,751 1,601		2,751 1,601			100. 0 100. 0		6,472,962 2,583,653		6,472,962 2,583,653			100. 0 100. 0	
steam-railroad companies. Flour-mill and gristmill prod- ucts.	1919 1914	49 34	47 40	20 21	822 450	79 46	702 372	41 32	9.6 10.2	85. 4 82. 7	5. 0 7. 1	42,549,987 11,192,573	2,316,789 1,050,684	38,821,400 9,586,401	1,411,798 555,488	5.4 9.4	91. 2 85. 6	3.3 5.0
Foundry and machine-shop products.	1919 1914	45 41	53 37	23 20	3,265 660	135 124	2,987 464	143 72	4.1 18.8	91.5 70.3	4.4 10.9	21, 136, 153 1, 870, 540	730, 594 344, 284	19,682,980 1,282,810	722,579 243,446	3. 5 18. 4	93. 1 68. 6	3. 4 13. 0
Lumber and timber products	1919 1914	236 170	199 129	190 140	22,884 12,829	1,333 647	20, 223 11, 484	1,328 698	5.8 5.0	88. 4 89. 5	5. 8 5. 4	85, 347, 711 27, 509, 638	4, 441, 423 951, 054	76, 537, 842 25, 399, 013	4,368,446 1,159,571	5. 2 3. 5	89.7 92.3	5.1 4.2
Lumber, planing-mill prod- ucts, not including planing mills connected with saw-	1919 1914	17 20	30 28	14 21	1,084 732	48 69	954 571	82 92	4.4 9.4	88. 0 78. 0	7.6 12.6	5, 804, 349 2, 378, 642	198,669 228,829	5, 206, 402 1, 779, 798	399,278 370,015	3. 4 9. 6	89. 7 74. S	6.9 15.6
mills. Printing and publishing, newspapersand periodicals.	1919 1914	136 164	51 47	37 40	929 945	184 206	698 680	47 59	19.8 21.8	75. 1 72. 0	5.1 6.2	6, 408, 348 4, 126, 752	975,747 861,014	5, 162, 507 2, 972, 100	270,094 293,638	15. 2 20. 9	80, 6 72, 0	4.2 7.1
Shipbuilding, wooden, in- cluding boat building.	1919 1914	9	14 2	7 9	2,990 163	17 29	2,732	241 8 134	0.6 17.8	91.4	8. 1 82. 2	13,777,615 332,074	60,940 71,242	12,963,534	753,141 260,832	0. 4 21. 5	94.1	5, 5 78, 5
Slaughtering and meat packing.	1919 1914	5 4	14 8	2 2	772 442	436 412	736 430		4.7 2.7	95.3 97.3		15,868,169 7,486,920	4 482, 492 4 229, 285	15,385,677 7,257,635		3.0	97.0 96.9	
Total for cities	1919 1914	413 402	443 374	204 222	29, 831 13, 415	1,354 1,284		2,032 974	4. 5 9. 6	88. 6 83. 2	6.8 7.3	221, 703, 490 63, 940, 931	7, 717, 425 5, 045, 373	201, 095, 986 54, 392, 178	4,503,380	3.5 7.9	85, 1	5.8 7.0
ASTORIA	1919 1914	27 23	35 22	16 12	1,404 1,172	210 69	1,177 1,059	17 44	15. 0 5, 9	83. 8 90. 4	1. 2 3. 7	13,398,627 4,587,301	1,030,649 227,979	12, 200, 426 4, 187, 168	1	7. 7 5. 0	91. 1	1.2 3.7
Eugene	1919 1914	23 14	14 9	15 14	534 238	64 54	413 135	57 49	12.0 22.7	77. 3 56. 7	10.7 20.6	2,489,647 810,346	319, 150 167, 382	1,700,686 388,578	254,386	12. 8 20. 7	63.3 47.9	18.9 31.4
PORTLAND	1919 1914	322 336	373 325	151 176	26, 813 11, 273	975 1,077	23, 976 9, 467	1,862 729	3.6 9.5	89. 4 84. 0	6. 9 6. 5	196, 380, 146 55, 697, 440	5,646,022 4,263,753	i	3,281,979	2.9 7.7	91. 4 86. 4	5.7
SALEM	1919 1914	41 29	21 18	22 20	1,080 732	105 84	879 496	96 152	9. 7 11. 5	81. 4 67. 7	8. 9 20. 8	9, 435, 070 2, 845, 844	721,604 386,259	7,677,101 1,664,724		7. 6 13. 6	81. 4 58. 5	11.0 27.9

¹ Includes the group "Individuals."
2 Includes the groups "Individuals" and "All others."

Includes the group "Corporations."
Includes the group "All others."

TABLE 15.—MANUFACTURES, BY POPULATION GROUPS, IN CITIES OF 10,000 INHABITANTS OR MORE: 1919, 1914, AND 1909.

		Aggregate.	CITIES	HAVING	A POPULATIO	N OF 1	,000 or over		THE STATE OUTSIDE	
	Census		Total.		10,000 to 25,000.		100,000 and over.		A POPULATION OF 10,000 OR OVER.	
	year.		Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per centof aggre- gate.
Number of places.	1919 1914 1909		4 4 2		3 3 3 1		1 1			
Population 1	1920	783,389	300,587	38. 4	42, 299	5.4	258, 288	33. 0	482, 802	61.6
	1915	783,239	301,087	38. 4	40, 486	5.2	260, 601	33. 3	482, 152	61.6
	1910	672,765	221,308	32, 9	14, 094	2.1	207, 214	30. 8	451, 457	67.1
Number of establishments	1919	2,707	1,060	39. 2	214	7.9	846	31.3	1,647	60.8
	1914	2,320	998	43. 0	161	6.9	837	36.1	1,322	57.0
	1909	2,246	711	31. 7	62	2.8	649	28.9	1,535	68.3
Average number of wage earners	1919	58,559	29,831	50. 9	3,018	5.2	26,813	45.8	28,728	49.1
	1914	28,829	13,415	46. 5	2,142	7.4	11,273	39.1	15,414	53.5
	1909	28,750	12,811	44. 6	597	2.1	12,214	42.5	15,939	55.4
Value of products	1919	\$366, 782, 627	\$221,703,490	60. 4	\$25,323,344	6.9	\$196, 380, 146	53. 5	\$145,079,137	39.6
	1914	109, 761, 951	63,940,931	58. 3	8,243,491	7.5	55, 697, 440	50. 7	45,821,020	41.7
	1909	93, 004, 845	49,068,798	52. 8	2,208,031	2.4	46, 860, 767	50. 4	43,936,047	47.2
Value added by manufacture	1919	160, 576, 586	92, 833, 300	57.8	7,839,733	4.9	84,993,567	52. 9	67,743,286	42.2
	1914	46, 504, 130	25, 348, 901	54.5	3,550,114	7.6	21,798,787	46. 9	21,155,229	45.5
	1909	42, 452, 375	21, 815, 981	51.4	1,030,830	2.4	20,785,151	49. 0	20,636,394	48.6

¹ Population of 1920, as of Jan. 1, 1920; 1915, estimated population as of July 1, 1914 (per reports census of manufactures, 1914); 1910, as of Apr. 15, 1910.

TABLE 16.—PRINCIPAL INDUSTRIES IN PORTLAND (THE ONLY CITY IN THE STATE HAVING 50,000 INHABITANTS OR MORE), WITH PER CENT OF TOTAL FOR STATE: 1919.

	. ∀A]	LUE OF	PRODUCTS.			VA.	LUE OF	PRODUCTS.	
industry.	Amount,	Per cent	Increase ov	er 1914.	industry.	Amount,	Per cent	Increase ov	er 1914.
		of total for the state.		Per cent.		1919.	of total for the state.	Amount.	Per cent.
Flour-mill and gristmil products. Foundry and machine-shop products. Lumber and timber products. Shipbullding, wooden, including boat building. Bread and other bakery products. Structural ironwork, not made in steel-works or rolling mills Printing and publishing, hewspapers and periodicals. Food preparations, not elsewherespecified. Coffee, roasting and grinding. Printing and publishing, book and job. Confectionery and ice cream Furniture Lumber, planing-mill products, not including planing mills connected with sawmills Butter.	2, 935, 436 2, 899, 667		\$17, 296, 849 18, 039, 641 12, 259, 074 9, 801, 397 4, 630, 536 5, 742, 669 1, 995, 957 3, 340, 150 1, 540, 363 1, 599, 221 1, 652, 662 1, 684, 025 926, 566	186. 1 183. 3 884. 0 75. 8 380. 6 75. 1 105. 2 132. 5 150. 9	Saddlery and harness	\$2,034,335 1,635,654 1,265,165 1,129,107 }	100. 0 84. 7 48. 6 84. 3	(1) \$845,500 756,747 (1)	

¹ Figures can not be shown without disclosing individual operations.

TABLE 17.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

- an - an - year 2.44 the 2011/12.14.1		F ENGINES O	B MOTORS.	Horsepower.						
The second of the POWER designed to the second				Amount.			Per ce	Per cent distribution.		
Robert (1997) i Amerikaan gestifikan sensi. Sensi (1997) in termena sensi (1997) in termena	1919	1914	1909	1919	1914	1909	1919	1914	1909	
Primary power, total	9,674	5,188	3,442	304,346	214, 222	175, 019	100.0	100.0	100.0	
Owned Steam Engines Turbines Internal-combustion engines. Water Water wheels and turbines. Water motors.	1,692 1,650 42 250 188 170	1,719 1,308 (1) (1) 133 278 234 44	1, 921 1, 572 (1) (1) (1) 81 268 237 31	211, 219 165, 801 140, 640 25, 161 2, 166 43, 252 43, 057 195	175, 155 116, 591 (1) (1) (1) 1, 289 57, 275 56, 972 303	160, 110 112, 244 (1) (1) 428 47, 438 47, 041 397	69.4 54.5 46.2 8.3 0.7 14.2 14.1	81. 8 54. 4 0. 6 26. 7 26. 6 0. 1	91, 5 64, 1 0, 2 27, 1 25, 9 0, 2	
Rented Electric Other	7, 544 7, 544	3,469 3,469	1,521 1,521	93,127 92,576 551	39, 067 39, 010 57	14,909 14,811 98	30.6 30.4 0.2	18. 2 18. 2 (*)	8. 5 8. 4 0. 1	
Electric. Rented. Generated by establishments reporting	. 7.544	3,937 3,469 468	1,745 1,521 224	118, 187 92, 576 25, 611	48,739 39,010 9,729	20, 802 14, 811 5, 991	100.0 78.3 21.7	100. 0 80. 0 20. 0	100.0 71.3 26.8	

¹ Not reported separately.

TABLE 18.—FUEL CONSUMED, FOR SELECTED INDUSTRIES AND FOR CITIES: 1919.

	co.	AL.	Coke		Gasoline and	Gas
INDUSTRY AND CITY.	Anthracite (tons, 2,210 pounds).	Bitumineus (tons, 2,000 pounds).	(tons, 2,000 pounds).	Fuel oils (barrels).	other volatile oils (barrels).	(1,000 cubic feet).
All industries		72,695 14,437 403.5	10,970 6,106 79.7	1,350,459 940,377 45.7	19,873 (1) (1)	402, 457 61, 988 549, 2
Fer cent of increase. Brass and bronze products. Bread and other bakery products. Brick and tile, terra-cotta, and fire-clay products. Banning and preserving, fish. Banning and preserving, fruits and vegetables.	156	2 465 3,016	56 489	2,689 16,350 942	36 135 5	1,497 30,497 1,482
Srick and the terra-cours, and me-cay products Janning and preserving, fish Canning and preserving, fruits and vegetables	12 300	870 6,328 36,126	30 104	9, 623 16, 196 26, 058	1,049 12 9,720	1,102
Cars and general shop construction and repairs by steam-railroad companies.		9.411	7,778 785	37,097 14,011 9,199 585,235	344	17,67
Ordage and twine Foundry and machine-shop products. Tas, illuminating and heating Lumber and timber products. Paper and wood pulp Shipbuilding, steel, new vessels.	69 721	4, 492 2, 732 350	8 51	177, 134 313, 368 45, 330		ļ .
slaughtering and meat packing	. 28	1,019 5 1,186	350	15, 159 14, 500 17, 851	4,377	172,00 103,29
Woolen goods. All other industries.	285	6, 693 38, 333	1,319 9,923	49, 717 759, 463		398,86
Total for cities	89	862 697	872	11, 282 3, 964 733, 717	. 4	1, 13 394, 40
EUGENE. PONTLAND. SALEM.	1.000	34, 048 2, 726		10,500		

¹ Included in figures for fuel oils.

¹ Less than one-tenth of 1 per cent.

SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for seven of these industries in Oregon are here presented.

Lumber and timber products (Table 19).—This table presents statistics pertaining to the chief products of the lumber industry for 1919, 1914, and 1909. The growth of this industry in Oregon has been very rapid since 1899. The relative rank of the state in the production of lumber has advanced from twenty-third place in that year, to ninth, in 1909, fifth, in 1914, and third, in 1919.

Oregon is credited with having the largest stand of timber of any state in the Union, the principal species being Douglas fir and western yellow pine. In the production of lumber from these woods in 1919, this state occupied second place and first place, respectively, producing 30.4 per cent of the total cut of Douglas fir and 27.4 per cent of the total cut of western yellow pine in the United States.

The lumber cut from the principal species in 1919 was reported as follows: Douglas fir, 1,795,492,000 feet, or 69.7 per cent of the total cut from all species in the state; western yellow pine, 480,514,000 feet, or 18.6 per cent; spruce, 166,056,000 feet, or 6.4 per cent; hemlock, 52,906,000 feet, or 2.1 per cent; Port Orford cedar, 25,360,000 feet, or 1 per cent; white fir, 22,731,000 feet, or nine-tenths of 1 per cent; and larch, 18,968,000 feet, or seven-tenths of 1 per cent. Seven other woods were reported as manufactured into lumber, the most important of these being cedar, sugar pine, cottonwood, and maple.

TABLE 19.—LUMBER, LATH, AND SHINGLES: 1919, 1914, AND 1909.

100 mg	Product.			QUANTITY.1	ry.1	
			1919	1914	1909	
Lumber Lath Shingles		M feet b. m thousands thousands	2, 577, 403 122, 848 530, 066	1,817,875 (2) (2)	1,898,995 161,512 293,644	

¹ The output of custom mills is included in 1919 and 1909, but not in 1914.

² Not reported.

Flour-mill and gristmill products (Table 20).— Wheat flour was the product of chief value in 1919 as in 1914, forming 81 per cent and 69.2 per cent, respectively, of the total value of products for the industry in the state. The value of bran and middlings and feed and offal combined was second in value of products, forming 18 per cent of the total for the industry in 1919 and 27.5 per cent in 1914. During this five-year period, the total value for the industry increased \$31,357,414, or 280.2 per cent. The value

of flour increased \$26,728,139, or 344.9 per cent, and the quantity, 1,550,422 barrels, or 86.6 per cent. Similarly, bran and middlings increased 220.4 per cent in value and 89.6 per cent in quantity, while feed and offal increased 103.3 per cent in value, but decreased 7 per cent in quantity.

Table 20.—Flour-Mill and Gristmill Products (Merchant-Mills): 1919, 1914, and 1909.

	1919	1914	1909
Total value	\$12, 519, 987	\$11, 192, 573	\$ 8,891,001
Wheat flour:			
Barrels	3, 341, 756	1,791,334	1, 360, 281
Value	\$34,477,758	\$7,749,619	\$6,015,845
Barley meal:	,,	1, ,	, , , , , , , , , , , , , , , , , , , ,
Pounds	1, 132, 930	1,836,918	1,095,604
PoundsValue	\$29,961	\$34,806	\$17,963
Corn meal and corn flour:	,		,
Barrels	557	2,867	559
BarrelsValue	\$4,534	\$14,050	\$2,236
Bran and middlings:	,		, , , , , , , , , , , , , , , , , , , ,
Tons	98, 122	51,758	1
Value	\$3,800,078	\$1,185,918	104 000
Feed and offal:	1		104,262
Tons	66, 239	71, 254	\$2,688,095
Value	\$3,846,156	\$1,892,079]
Breakfast foods:	1	, , ,	
Pounds	2, 191, 040	5,396,437	1
Value	\$113,642	\$188,715	\$64,056
All other cereal products, value	\$216,450	\$109,689	1
All other products, value	\$31,408	\$17,697	\$102,806

Slaughtering and meat packing (Table 21).—This table presents for the slaughtering and meat-packing industry for the census years 1919, 1914, and 1909, the number and cost of the most important classes of animals slaughtered, the cost of "All other materials," which includes that for goats and kids, poultry, dressed meat purchased for curing, cottonseed oil for making lard compounds and substitutes, butter and whole milk for making oleomargarine, curing materials, seasoning, refrigeration, containers, fuel, rent of power, mill supplies, and freight; and the kind, quantity, and value of the principal products that can be shown without disclosing individual operations. The value of minor and auxiliary specified products are grouped under "All other products" and include beef, pickled and other cured, canned sausage, lard compounds and substitutes, lard oil and other oils, oleomargarine, casings, fertilizers and fertilizer materials, glue, wool, and stock feed.

From 1914 to 1919 there was an actual decrease of 38,555 in the total number of all classes of animals slaughtered. This decrease was in sheep and lambs and hogs, which together show a decrease of 59,561; while, on the other hand, there was an increase of 21,006 in the number of beeves and calves combined. The cost of each of these classes, however, shows a large increase. The total cost of materials increased \$7,546,878, or 121.7 per cent, and value of products \$8,381,249, or 111.9 per cent, during this five-year period.

Of the several products for which the values are shown, the same general proportions of the total for the industry prevailed in 1919 as in 1914, with the exception of fresh pork, which was second in importance, with 16.2 per cent of the total in 1914 as compared with third in 1919, with but 7.9 per cent.

TABLE 21.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.		. 17	
Total cost	\$13,749,333	\$ 6, 202, 455	\$ 5, 014, 846
Animals slaughtered: Beeves—			
Number Cost	50,413 \$4,086,350	33, 431 \$2, 549, 264	\$1,922 \$2,391,659
Number Cost Sheep and lambs—	5,312 \$116,052	1,288 \$20,246	6,034 \$70,659
Number	98,571 \$837,190	141, 892 \$ 700, 294	92, 038 \$ 397, 387
Hogs— Number Cost	143, 252 \$5, 151, 435	159, 492 \$2, 394, 147	75, 395 \$1, 295, 899
All other materials, cost	\$3,558,306	\$ 538, 504	\$859, 242
PRODUCTS.			
Total value	\$ 15, 868, 169	\$7,486,920	\$ 5, 879, 6 15
Fresh meat: Beef—			
PoundsValueVeal—	24, 574, 531 \$3, 976, 454	18, 550, 133 \$ 2, 237, 855	28, 759, 934 \$2, 235, 816
Pounds Value Mutton and lamb—	572,588 \$117,018	162,928 \$19,888	851, 558 \$88, 663
Pounds	4,095,504 \$820,599	7, 242, 761 \$ 633, 165	3, 866, 798 \$351, 170
Pounds	5,131,830 \$1,259,403	10,635,553 \$1,213,683	4, 256, 595 \$517, 974
Pounds	2, 114, 637 \$385, 310	1,737,778 \$153,971	72, 535 \$8, 303
PoundsValue	12, 030, 437 \$3, 703, 376	7,817,795 \$1,192,045	5, 123, 483 \$752, 137
Sausage: PoundsValue	2, 948, 094 \$595, 472	2, 180, 304 \$307, 751	2,069,163 \$250,822
Lard: PoundsValue	3, 385, 854 \$971, 858	3,591,540 \$419,179	5,709,268 \$635,628
Tallow: Pounds. Value.	1,529,865 \$143,256	1,239,341 \$65,371	827, 738 \$45, 024
Hides: Cattle—		00.101	_
Number Pounds	50, 413 3, 063, 524 \$876, 335	33, 431 2, 456, 098 \$324, 668	56, 421 3,390,352 \$427,179
Value			3,390,352
Calf— Number	5,308 53,292	1,188 16,108	\$421,119
Calf—	5, 308 53, 292 \$32, 240 97, 597 \$191, 073	1,188 16,108 \$2,569 141,892 \$103,966	92, 038 \$52, 589

Shipbuilding, including boat building (Tables 22 and 23).—This industry includes the building and repairing of steel and wooden vessels, as well as small craft, and the manufacture of masts, spars, oars, and rigging. The number and tonnage of all vessels launched in 1919 and 1916 are shown, by classes, in the following table.

No steel vessels were launched in Oregon during 1916. In 1919, 28 vessels of this class of 135,042 tons were launched at Portland. Twenty-seven of these vessels were steam, all large sized, designed for freight service and equipped with oil burners. Some of them exceeded 6,000 gross tons.

Although two less wooden vessels were launched in 1919 than in 1916, there was an increase during the three-year period of 71,065 in tonnage, or 609.9 per cent. The wooden vessels constructed were mostly of a uniform type and tonnage, and like the steel vessels were built largely to meet the exigencies of the World War.

Table 22.—Shipbuilding, Including Boat Building—Number and Tonnage: 1919 and 1916.

and the state of t		1919	1916		
en e	Num- ber.	Gross tonnage.	Num- ber.	Gross tonnage.	
Vessels, 5 gross tons and over, launched dur- ing the year	62	217,759	36	11,652	
Steel * Steam Motor	28 27 1	135, 042 135, 020 22			
Wooden Steam Motor	34 20 1	82,717 51,734 14	36 5 9	11,652 4,719 118	
Sail. Unrigged	1 12	1,728 29,241	19 3	6,255 560	
Power boats, less than 5 gross tons	49		73		

The value of work done upon vessels of all kinds during 1919 and 1916 is shown in Table 23.

Table 23.—Shipbuilding, Including Boat Building—Value: 1919 and 1916.

	1919	1916
Total value of work	\$53, 501, 950	\$2, 915, 346
Work done during the year on new vessels, 5 gross tons and over. Steel. Wood. Boats of less than 5 tons. Power boats of all kinds. Sailboats, rowboats, etc.	52, 809, 785 39, 707, 334 13, 102, 451 51, 294 46, 654 4, 640	2,627,046 800,000 1,827,046 60,566 39,856 20,710
Repair work. Stoel. Wood. Masts All other products.	243, 291 17, 001 226, 290 130, 152 267, 428	152, 017 25, 000 127, 017 (1) 75, 717

1 Included in "All other products."

The figures in this table are not strictly comparable with those for tonnage launched, as shown in Table 22, since they include only the value of work done in the shipyards of Oregon in 1919 and 1916, while part of the cost of construction of the vessels actually launched may have been an expenditure during prior years, just as the value of the work reported in Table 23 represents the expense of any work done during the year on vessels on the ways.

Canning and preserving (Table 24).—This table shows in detail the quantity and value of the principal kinds of fruits, vegetables, and fish canned and preserved during 1919, 1914, and 1909.

From 1914 to 1919 the total value of all products for the industry increased \$15,853,068, or 334.6 per cent. Of this increase, \$10,713,574, or 67.6 per cent, was in fruits and vegetables, \$3,559,729, or 22.5 per cent, in fish and oysters, and \$1,579,765, or 10 per

cent, in pickles, preserves, and sauces. These three branches of the canning industry show increases in 1919 over 1914 in value of products as follows: Fruits and vegetables 690.3 per cent; fish and oysters 119.8 per cent; and pickles, preserves, and sauces 737.3 per cent. Practically all items in this table show increases in quantity, as well as in value during this five-year period, except salted fish and smoked or dried fish, both of which while increasing in value decreased in quantity.

TABLE 24.—CANNING AND PRESERVING: 1919, 1914, AND 1909

	1919	1914	1909
Total value ¹	\$20, 591, 135	\$4,738,067	\$3, 207, 060
Canning and preserving, fruits and vege- tables. Canning and preserving, fish and oysters. Pickles, preserves, and sauces.	\$12,265,651 6,531,462 1,794,022	\$1,552,077 2,971,733 214,257	\$708,285 2,336,412 162,363
Canned vegetables	\$258,609	\$27,863	\$48, 210
Beans— Cases. Value.	30, 569 \$93, 880	9, 292 \$16, 231	12,831 \$26,179
All other— Cases Value	54, 865 \$164, 729	6,099 \$11,632	10,565 \$22,040
Dried vegetables: PoundsValue	1, 204, 713 \$343, 512	(²) (²)	(2) (2)
Canned fruits.	\$6,701,131	\$539,675	\$117,818
Loganberries— Cases Value Blackberries—	195, 535 \$1, 458, 019	(A)	(3) (3)
CasesValuePears—	222,633 \$1,206,411	2, 219 \$ 4, 114	4, 409 \$ 9, 321
CasesValue	164,733 \$1,161,462	(3)	(2) (3)
Cherries— Cases. Value.	142, 146 \$890, 103	38, 479 \$112, 926	22, 770 \$49, 200
Apples— Cases. Value	230, 321 \$862, 515	24, 872 \$40, 148	8, 557 \$15, 9 18
Raspherries— Cases. Value.	37, 416 \$285, 028	29,641 \$ 91,187	9, 658 \$23, 206
Btrawberries— Cases. Value.	21, 107 \$217, 253	15, 194 \$55, 692	3, 490 \$10, 361
All other— Cases. Value,	166, 882 3 620, 340	50,061 \$157,404	14, 033 \$26, 967
Dried fruits: Pounds	24, 743, 386 \$3, 443, 070	12, 863, 689 \$849, 900	14, 028, 251 \$473, 008
Prunes— Pounds Value.	19, 930, 935 \$2, 785, 373	12,621,817 \$822,837	14, 009, 597 \$470, 911
All other— Pounds Value	4, 812, 451 \$657, 697	241,872 \$27,063	18,654 \$2,097
Canned fish, clams, etc	\$ 5, 505, 849	\$2,366,075	\$1, 352, 281
Cases Value All other—	511, 325 \$5, 447, 491	376, 492 \$2, 314, 771	\$1,341,48
Cases Value	10, 974 \$58, 358	14,062 \$51,304	\$10,800
PoundsValue	2, 086, 628 \$591, 082	3,672,277 \$473,458	5,333,67- \$731,60
Smoked or dried fish— Pounds Value	126, 559 \$35, 729	189, 920 \$21, 507	137,70 \$20,80
Pickles, preserves, and sauces, value	\$1,794,022	\$ 214, 257	\$162,36
All other products of canning and preserv- ing, fish and oysters, value	\$3 98, 802	(9)	(4)
ing, fruits and vegetables, value	\$1,519,329	\$245,332	\$240,97

¹ In addition, products to the value of \$75,045 in 1919, \$20,433 in 1914, and \$10,538 in 1909, were reported by establishments engaged primarily in other industries.

2 Reported in "All other products" in 1914 and 1909.

3 Reported in "All other canned fruits in 1914 and 1909.

4 Not reported separately in 1914 and 1909.

Butter, cheese, and condensed milk (Table 25).— This table shows the quantity and value of the principal products of the combined industries for 1919, 1914, and 1909. From 1914 to 1919, the total value of products for the three industries increased \$9,194,263, or 140 per cent. Butter was the product of chief value in 1919 as in 1914, forming 51.1 per cent and 50.3 per cent, respectively, of the total for the industry. From 1914 to 1919 much larger percentages of increase are shown for values than for quantities; for instance, butter increased 143.8 per cent in value and 25 per cent in quantity, while the corresponding increases for cheese were 210.5 per cent in value and 49.2 per cent in quantity.

TABLE 25.—BUTTER, CHEESE, AND CONDENSED MILK: 1919, 1914, AND 1909.

	1919	1914	1909
Total value	\$ 15, 762, 212	\$6, 567, 949	\$ 4, 920, 462
Butter:			
Pounds	13, 984, 185	11, 182, 937	8, 472, 660 \$2, 682, 106
Value	\$8,061,141	\$3, 308, 464	3 2,002,100
Packed solid— Pounds	6 504 84A	3,714,736	992,102
Value	6,594,846 \$3,647,179	\$1,022,496	\$298,721
Prints or rolls-	40,011,11		
Pounds	7,389,339	7, 468, 201	7, 480, 558
Value	\$1,413,962	7, 468, 201 \$2, 283, 968	\$2,383,38
Cheese:			
Pounds	9, 424, 399 \$2, 956, 032	6, 314, 757	4, 218, 95 \$640, 868
Value	\$2,956,032	\$952, 101	\$640,80
Evaporated milk: 1	94 004 108	00 157 414	. O1 700 09
Pounds	34, 084, 198 \$4, 038, 583	23, 157, 414 \$1, 392, 698	21,788,93 \$1,164,36
Value	\$4,000,000	\$1,000,000	91,103,00
milk factory products, value	\$684,080	\$663,035	\$154,35
min moon j. promoos, vanos,	4552,000	4.35,000	
All other products, value	\$22,376	\$253,651	\$278,77

¹ Includes condensed milk for 1914 and 1909, the value of which for 1919 is included in "All other butter, cheese, and condensed-milk factory products" to avoid disclosure of individual operations.

Printing and publishing (Table 26).—This table gives the number and aggregate circulation per issue of all newspapers and periodicals published in Oregon as reported at the censuses of 1919, 1914, and 1909.

TABLE 26.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE,		MBER LICATI			ATE CIRCUI PER ISSUE.	ATION
erske en en 1990 av de en en en en. Geografie	1919	1914	1909	1919	1914	1909
Total.	. 265	289	254	1, 005, 889	917, 846	735, 363
Daily, Sunday, Semiweekly ¹ Weekly Monthly ²	33 11 11 174 36	34 7 14 201 33	31 6 11 176 30	293, 204 191, 830 25, 575 281, 324 214, 456	218, 449 146, 975 30, 009 349, 363 173, 050	150, 500 93, 142 26, 725 229, 585 235, 351

¹ Includes in 1919 and 1914, 2 triweekly publications, and in 1909, 1 triweekly publication.
² Includes in 1919, 2 semimonthly, 1 bimonthly, and 1 three-times-a-year publications; in 1914, 4 semimonthly, 6 quarterly, and 1 semiannual publications; and in 1909, 2 semimonthly, 1 quarterly, and 1 "All other" publications.

The decrease in total number of newspapers during the five-year period from 1914 to 1919 is due to the decrease in weeklies, which fact is in accordance with that existing in many states owing to high cost of paper. The aggregate circulation per issue of all publications, however, increased by 88,043, or 9.6 per cent, during the same five years.

Circulation of the daily newspapers increased 74,755, or 34.2 per cent. Of these, 25 with a circulation of 202,334, or 69 per cent of the total daily circulation, were issued in the afternoon, an increase of 61,511, or 43.7 per cent, over the afternoon circulation reported for 1914.

The increase in number of Sunday newspapers was four for the five-year period, and in circulation 44,355,

or 30.2 per cent.

The foreign-language publications in 1919 numbered 11 with a circulation of 67,230, compared with 10 in 1914 having a circulation of 23,335, and of 8 in 1909 with a circulation of 50,675. In 1919 there were 2 daily newspapers, both published in the afternoon, 1 in Finnish and the other in Japanese; 7 weeklies, 2 in German and 2 in Italian, and 1 each in Finnish, Norwegian-Danish, and Swedish; 1 tri-weekly in Finnish, and 1 monthly in German. The German papers led in circulation with 47,470, the Finnish following with 14,135.

Laundries (Table 27).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 27, however, summarizes the statistics for such laundries in the state of Oregon for 1919 and 1914.

TABLE 27.—POWER LAUNDRIES: 1919 AND 1914.

		NUMBER O	R AMOUNT.	Per cent
		1919	1914	crease,1 1914- 1919.
Persons Pro	r of establishments congaged. prictors and firm members tried employees. ge earners (average numbers).	2,253 60 160	78 1,969 74 150 1,745	14. 6. 16. 16.

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

Dyeing and cleaning (Table 28).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this

table. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 28.—Dyeing and Cleaning: 1919.

	Number or amount.
Number of establishments	
Persons engaged	2
Proprietors and firm members	
Salaried employees	
Wage earners (average number)	2
rimary horsepower	. 1
Capital	\$187,1
Salaries and wages	
Salaries	
Wages	
Paid for contract work	5
Rent and taxes	16,2
Cost of materials	126,4
mount received for work done.	534, 2

Custom gristmills (Table 29).—Statistics for custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for these custom mills were not collected in 1914. Table 29, however, summarizes the statistics for such mills for 1919 and 1909. The value of products for custom gristmills represents the selling value of the grain milled.

TABLE 29.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR	AMOUNT.	Per cent
	1919	1909	of in- crease, ¹ 1909- 1919.
Number of establishments. Persons engaged. Proprietors and firm members. Wage earners (average number). Capital. Wages. Rent and taxes. Cost of materials ² . Value of products ³ .	12 16 15 1 208 \$54,066 1,500 387 66,561 87,138	15 22 16 6 344 \$40,710 2,046 398 97,323 116,984	-39. 32. -26. - 2. -31. -25.

A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.
 Includes estimate of all grain ground.

GENERAL TABLES.

Table 30 gives the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for all industries combined and selected industries for the state and Portland, and for Astoria, Eugene, and Salem similar data for all industries combined for 1919, 1914, and 1909. Certain kindred industries are com-

bined in some instances for comparison with the 1909 figures. Table 31 presents, for 1919, for the state and for Portland, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments, and the statistics for all industries combined for Astoria, Eugene, and Salem.

TABLE 30.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish-	Wage earn- ers (aver- age	Pri- mary horse-	Wages	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish-	Wage earn- ers (aver- age	Pri- mary horse-	Wages	Cost of mate- rials.	Valu of prod ucts
	, , , , , ,	ments		power.		ressed in ids of do			Jose	ments		power.	Exp:	ressed in ids of dol	thou- llars.
		THE	STAT	E—ALI	' INDI	USTRIE	s com	SINED AND SELECTED IN	DUST	RIES.			·		
All industries	1919 1914 1909	2, 707 2, 320 2, 246	58, 559 28, 829 28, 750	304, 346 214, 222 175, 019	81, 094 20, 932 19, 902	206, 206 63, 258 50, 552	366, 783 109, 762 93, 005	Gas, illuminating and heating.	1919 1914 1909	11 9 8	334 385 260	1, 910 2, 482 1, 483	353 310 194	818 404 200	1, 5
Artificial stone products	1919 1914 1909	14 19 20	48 40 47	103 252 46	69 33 35	109 43 46	265 146 113	Ice, manufactured	1919 1914 1909	30 27 25	108 106 69	2, 440 2, 650 1, 569	158 92 53	105 118 76	3
Automobile bodies and parts	1919 1914	17 6	46 35	93 42	71 32	118 50	259 115	Leather goods 3	1919 1914	44 48	255 202	277 205	336 158	1,154	2,40 1,00
Boxes, set-up paper boxes and cartons.	1919 1914	5 4	169 90	167 50	125 49	304 73	585 219	Leather, tanned, curried, and finished.	1909 1919 1914	48 5 5	353 39 34	203 163	262 49 20	989 236 148	1,6
Brass and bronze products	1919 1914 1909	4 6 4	58 35 42	250 138 66	96 34 49	275 59 41	525 140 122	Lumber and timber products 4.	1909	. 8	49	224 173, 178	34 34, 427	181 37, 524	95, 2
Bread and other bakery prod-	1919 1914	146 163	1,076 700	1, 125 589	1, 143 463	5, 709 1, 880	9, 031 3, 326		1914 1909	526 713	13, 888 15, 066	101, 832 95, 213	9, 942 10, 172	14, 399 2, 413	30, 9: 30, 2:
Brick and tile, terra-cotta, and fire-clay products.	1909 1919 1914	151 23 42	613 152 382	336 1, 166 2, 894	165 201	1, 621 92 165	2, 829 386 521	Marble and stone work	1919 1914 1909	17 24 23	55 88 76	318 278 159	89 85 75	149 146 113	3 2
Brooms	1909	61 7	385	1, 922	266 72	155 294	675 412	Mattresses and spring beds, not elsewhere specified.	1919 1914 1909	6 8 7	82 59 83	155 171 105	90 40 68	329 115 211	5 2 3
Butter, cheese, and condensed	1914	136	35 595	74 3, 333	18 707	66 13, 237	103 15, 762	Mineral and soda waters	1919 1914	33 33	109	1,097 135	154 37	661	1,0
milk.	1914 1909	118 95	434 420	1, 827 1, 935	325 290	5, 502 3, 952	6, 568 4, 920	Patent medicines and com-	1909	29	69 99	69 162	43 91	83 580	1,0
anning and preserving 1	1919 1914 1909	103 71 71	2,344 799 661	4,397 1,655 1,318	2,018 339 315	14, 366 3, 090 2, 187	20, 591 4, 738 3, 207	pounds. Paving materials	1914 1919	20 11	42 99	25 1,600	22 144	109	2
Cars and general shop construc- tion and repairs by electric- railroad companies.	1919 1914	4 4	230 225	728 737	328 196	219 305	578 536	Printing and publishing 5	1914	358 377	26 1,595	1, 201 2, 584 2, 230	2, 195	3,005	10, 1
Cars and general shop construc- tion and repairs by steam- railroad companies.	1919 1914 1909	21 14 8	2,751 1,601 777	2, 938 1, 370 933	3,664 1,343 544	2, 454 1, 019 509	6, 473 2, 584 1, 163	Shipbuilding, wooden, includ-	1914 1909 1919	324 30	1, 556 1, 459 2, 990	1,927 7,282	1, 407 1, 448 4, 609	1, 563 1, 103 6, 854	6, 01 5, 04
Coffee, roasting and grinding	1919 1914	8	106 99	420 329	98 61	2,978 1,532	3, 590 2, 050	ing boat building.	1914 1909	20 24	163 212	287	158 190	204	33 47
loffins, burial cases, and un-	1909	5 4	72 73 7	298 144	52 113	1,096 290	1, 427 494	Slaughtering and meat packing.	1919 1914 1909	21 14 14	772 442 366	3,048 1,344 752	958 309 280	13,749 6,202 5,015	15, 86 7, 48 5, 88
takers' goods. confectionery and ice cream	1914 1919 1914	37 35	450 402	27 872 713	392 208	2, 220 1, 090	37 3, 466 2, 026	Stoves and hot-air furnaces	1919 1914 1909	6 10 11	126 80 86	136 88 183	184 75 79	181 129 130	59 28 35
Flour-mill and gristmill products.	1919 1914 1909	116 95 114	822 450 394	13, 314 8, 565 11, 541	1,166 330 278	37,802 9,827 7,667	42, 550 11, 193 8, 891	Tobacco, cigars	1919 1914 1909	41 63	91 154	6 2	96 109	165 148	36
rood preparations, not elsewhere specified.	1919 1914 1909	13 18 8	169 79 50	1,729 633 275	170 53 36	3,643 625 352	4, 218 878 580	Vinegar and cider	1919 1914 1909	55 10 5 4	186 60 19 16	219 94 54	171 57 13 9	170 380 49 51	52 11 8
Foundry and machine-shop products.	1919 1914 1909		5, 338 1, 254 1, 055	14, 032 4, 238 2, 709	9,320 1,035 892	14,357 1,616 1,472	31, 689 3, 823 3, 135	Woolen goods	1919 1914 1909	5 7 6	808 648 466	2, 341 1, 670 1, 558	754 373 201	1, 946 943 522	3, 35 1, 70 91
Tur goods	1919 1914 1909	6 6 5	59 35 51	34 8 12	64 29 35	107 60 96	270 190 191	All other industries	1919 1914 1909	301 312	ł	1	251 15, 591 2, 584 3, 067	38, 505 10, 254 9, 413	73.04
Furniture	1919 1914 1909	23 21 19	895 673 552	2,832 1,674 1,501	978 422 323	1, 221 544 484	3, 183 1, 335 1, 094				, , , ,	29012	5,501	J, 110	-,,50

¹ Includes "canning and preserving, fish"; "canning and preserving, fruits and vegetables"; and "pickles, preserves, and sauces," in all years; and "canning and preserving, systers," in 1914 and 1969.

2 Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "iron and steel, cast-iron pipe"; "iron and steel, welding"; "structural ironwork, not made in steel works or rolling mills," in all years; "hardware, saddlery," in 1919 and 1914; "gas machines"; "pumps, power, other than steam," in 1919; and "steam fittings and steam and hot-water heating apparatus" in 1914.

§ Includes "saddlery and harness" and "trunks and valises" in all years, and "pocketbooks" in 1914.

§ Includes "boss, wooden packing, except cigar boxes," and "lumber, planing-mills products, not including planing mills connected with sawmills," in all years; and "window and door screens" in 1914.

§ Includes "bookbinding and blank-book making"; and "engraving, steel and copper plate, including plate printing," in all years; and "lithographing" in 1914 and 1909.

TABLE 30.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES, 1919, 1914, AND 1909—Continued.

								A CONTRACTOR OF THE CONTRACTOR							
INDUSTRY AND CITY.	Cen-	Num- ber of estab-	Wage earn- ers (aver- age	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish-	Wage earn- ers (aver- age	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
	year.	lish- ments	num- ber)	power.	Exp sar	ressed in ids of do	thou- llars.		year.	ments	num- ber).	power.		essed in ds of dol	
CITIES O	F 50,0	000 IN	HABIT	CANTS	OR M	ORE—A	LL INI	DUSTRIES COMBINED AND	SEL	ECTE:	D IND	USTRI	ES.		
PORTLANDAll industries.	1919 1914 1909	846 837 649	26, 813 11, 273 12, 214	70,536 36,188 32,122	38,758 8,542 8,979	111,387 33,899 26,076	196,380 55,697 46,861	Fur goods	1919 1914 1909	6 5	59 35 51	34 8 12	64 29 35	107 60 96	270 190 191
Automobile bodies and parts	1919 1914	10 6	44 35	79 42	66 32	104 50	217 115	Furniture	1919 1914 1909	14 12 11	769 608 478	2, 551 1, 466 1, 207	871 389 283	1,106 508 458	2,900 1,247 993
Boxes, set-up paper boxes and cartons.	1919 1914	5 4	169 90	167 50	125 49	304 73	585 219	Ice, manufactured	1919 1914	7 7 4	51 54	957 1,213 575	84 46	58 61	275 178
Bread and other bakery prod- ucts.	1919 1914 1909	61 60 63	853 536 511	805 438 297	887 354 363	4,489 1,441 1,275	7,157 2,527 2,196	Leather goods 2	1909 1919 1914	22 24	16 222 170	259 186	283 130	45 1,005 583	108 2,104 911
Butter	1919 1914 1909	10 9 8	142 124 139	725 589 860	152 92 105	2,185 1,444 1,102	2,653 1,726 1,431	Lumber and timber products 4.	1909 1919 1914	26 38 35	304 3,892 2,557	136 22, 210 14, 130	220 5,542 1,957	868 10,612 4,628	1,386 21,563 7,847
Canning and preserving 1	1919 1914 1909	9 6 8	235 135 133	219 192 77	195 72 49	886 316 250	1,454 585 464	Marble and stone work	1909 1919	42 6	3,669 30	13, 998 161	2,672 51	5,067 100	10,111 241
Coffee, roasting and grinding	1919 1914 1909	8 9 5	106 99 72	420 329 298	98 61 52	2,978 1,532 1,096	3,590 2,050 1,427	Mineral and soda waters	1914 1909 1919	11 7 6	67 38 75	226 90 937	64 38 119	111 71 510	264 175 795
Confectionery and ice cream	1919 1914	26 20	359 348	768 618	339 174	1,933 989	2,935 1,830	Printing and publishing 5	1914 1909 1919	3 5 143	18 33 1.031	9 27 1,827	12 19 1, 534	16 39 2.446	46 101 7,905
Flour-mill and gristmill products.	1919 1914 1909	7 6 5	374 183 73	3,179 1,925 1,222	553 135 54	20,110 4,699 1,179	22, 526 5, 229 1, 337		1914 1909	149 132	1,029 952	1,505 1,402	975 1,036	1,260 847	4,336 3,736
Food preparations, not elsewhere specified.	1919 1914 1909	13 18 8	169 79 50	1,729 633 275	170 53 36	3,643 625 352	4,218 878 580	Shipbuilding, wooden, including boat building.	1919 1914 1909	9 5 7	1,787 40 101	3, 658 84 68	2,907 37 92	5,409 19 90	9,881 80 231
Foundry and machine-shop products.2	1919 1914 1909	145 114 44	4,538 1,012 799	12, 253 3, 323 2, 080	7,872 854 701	13,409 1,311 1,222	28, 458 3, 193 2, 527	All other industries	1919 1914 1909	301 333 269	11,908 4,054 4,795	17,598 9,222 9,498	16, 846 3, 027 3, 207	39,993 14,173 12,019	76,653 22,246 19,867
The state of the s	!	CIT	ies o	F 10,000	то 50	,000 IN	HABIT	ANTS—ALL INDUSTRIES C	омві	NED.					
ASTORIA	1919 1914	78 57	1,404 1,172	6, 832 8, 090	2,072 866	9,271 2,649	13,399 4,587	SALEM	1919 1914	84 67 62	1,080 732 597	3,324 8,185	1,179 404 367	6,741 1,637 1,177	9, 435 2, 846 2, 208
EUGENE	1919 1914	52 37	534 238	2,133 1,061	474 167	1,472 407	2,490 810		1909	62	ขช ใ	1,688	007	1,111	2,200

¹ Includes "canning and preserving, fish"; "canning and preserving, fruits and vegetables"; and "pickles, preserves, and sauces," in all years; and "canning and preserving, oysters," in 1914.

2 Includes "automobile repairing"; "engines, steam, gas, and water"; "hardware"; "fron and steel, welding"; and "structural ironwork, not made in steel works or rolling mills," in all years; "hardware, saddlery," in 1919 and 1914; "gas machines" and "pumps, power, other than steam," in 1919.

2 Includes "saddlery and harness" and "trunks and valless."

4 Includes "immber, planing-mill products, not including planing mills connected with sawmills," in all years; "boxes, wooden packing, except cigar boxes," in 1914 and 1909; and "window and door screens" in 1914.

6 Includes "engraving, steel and copper plate, including plate printing," in all years; "bookbinding and blank-book making"; and "lithographing" in 1914 and 1909.

TABLE 31.—DETAILED STATEMENT OF ALL INDUSTRIES

			PЕ	RSONS	ENGA	GED IN	THE IN	OUSTRY.			GE EARN EST REPI				
				Sala-	Clerk	s, etc.		Wage earne	ers.		16 and	l over.	Und	er 16.	
INDUSTRY.	Num- ber of estab- lish- ments.	Total.	and firm mem- bers.	ried offi- cers, super- in- tend- ents	Male.	Fe- male.	Average number.	Number, 18 Maximum month.	Minimum month,	Total.	Male.	Fe- male.	Male.	Fe- male.	Capital.

THE STATE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

_	11	ar sr	ATE-A	PP 10	ומטע	RIES	COM	DIMED	AND	SPEC	HEIED IN	DUSTRI					
	All industries	2,707	68,005	2,540	2,411	2,963	1,532	58,559	Au 6	32,488	De 49,499	(8)	(a)	(8)	(8)	(3)	Dollars. 237,254,736
1 2 3 4 5 6 7	Artificial stone products Automobile bodies and parts Automobile repairing Baskets, and rattan and willow ware. Bookbinding and blank-book making. Boxes, set-up paper boxes and cartons. Boxes, wooden packing, except cigar boxes.	14 17 229 3 6 5 20	71 70 1,163 22 69 186 662	12 22 294 2 4 2 14	9 1 46 3 6 7 24	1 57 1 3 12	39 3 5 2	48 46 727 17 55 169 610	Oc Jy Se (4) Au De Au	71 55 810 17 67 205 826	Ja 16 Ja 31 Ja 608 (4) 17 Ja 49 Ja 149 Fe 437	73 50 813 19 55 205 620	73 48 797 14 24 71 528	1 12 5 29 134 90	1 4 2		218,493 115,256 1,492,590 21,343 91,881 323,641 1,479,065
8 9 10	Brass and bronze products Bread and other bakery products Brick and tile, terra-cotta, and fire- clay products.	4 146 23	72 1,550 187	1 164 22	10 71 11	1 149 1	90 1	58 1,076 152	Mh No	65 1,126	Oc 5 49 My 1,028	52 1,116 285	52 716 281	385 1	5 3	10	283,288 2,986,540 1,034,650
11 12	Building brick Stove lining, sewer pipe, drain- tile, and terra-cotta products.	15 8	104 83	16 6	4 7	····i	···i	84 68	J y Oc	197 123	Ja 10 Ja 17	161 124	158 123	_i	3		322,880 711,770
13 14 15 16	Brooms. Butter. Canning and preserving, fish. Canning and preserving, fruits and	7 76 36 59	100 570 578 1,937	3 44 8 37	8 61 51 92	3 58 28 39	2 58 15 49	84 349 476 1,720	De Je Au	104 414 940	My 61 De 284 Ja 115	105 328 1,034 3,759	71 280 849 1,384	34 47 185 2,300	1 15	60	267,994 2,686,548 7,302,838 5,027,763
17 18 19 20 21	Canned fruits. Canned fruits Dried fruits Canned and dried vegetables. Carpets, rag. Carriages and wagons, repair work only.	34 21 4 3 4	1,482 302 153 39 22	13 24 3 5	75 12 5 3	33 1 5 3	37 9 3 1	1,324 256 140 29 17	Se Oc Au Oc Jy	2,897 603 287 36 22	Ap 199 Mh 44 Fe 18 Ja 5 24 Mh 5 15	2,811 635 313 34 19	891 399 94 27 18	1,846 235 219 7	14 1 1	60	3,412,502 1,148,103 467,158 12,861 22,832
22	Cars and general shop construction and repairs by electric-railroad companies.	4	250		6	12	2	230	Ja*	239	My 221	237	235	2			631,351
23	Cars and general shop construction and repairs by steam-railroad com-	21	2,924		95	47	31	2,751	De	3,145	Je 2,551	3,145	3,106	39			3,858,129
24 25 26 27 28 29 30	panies. Cheese. Clothing, men's. Clothing, women's. Suits, skirts, and cloaks. All other Coffee, roasting and grinding. Coffins, burial cases, and undertakers'	52 5 7 3 4 8 4	96 549 64 23 41 176 93	25 8 8 5 3 2	16 9	2 25 1 1 44 5	1 16 2 2 8 5	66 481 53 18 35 106 73	Jy De Oc Oc Jy Ja	91 603 26 46 113 80	Ja 34 Mh 396 Ja 12 Ja 24 Ap 97 Se 65	87 603 65 26 39 104 76	85 92 11 6 5 54 62	510 54 20 34 50 14			409,726 1,077,643 80,556 46,134 34,422 1,548,296 407,828
31 32 33 34 35 36 37	goods. Condensed milk. Confectionery and ice cream Confectionery. Ice cream Cooperage, hogsheads and barrels Copper, tin, and sheet-iron work Dairymen's, poultrymen's, and apiarists' supplies.	8 37 30 7 4 63 3	247 637 496 141 28 338 8	38 32 6 5 69 2	21 41 27 14 4 28 1	29 65 55 10 25	17 43 36 7	180 450 346 104 19 204	De De Jy Oc Oc De	241 417 129 31 248 8	Mh 304 De 79 Fe 10 Ja 153 Je 2	249 495 417 78 24 227 7	207 179 109 70 24 227 6	42 316 308 8			2,494,314 1,210,956 787,046 423,910 91,946 761,340 21,000
38 39	apiarists' supplies. Dental goods. Electrical machinery, apparatus, and supplies.	5	18 31	5 2	4	3	2	13 20	Ap Se 5	15 23	Fe 5 12 Ap 5 17	12 21	9 18	3 .			8,942 50,256
40	Engraving, steel and copper plate, including plate printing. Fertilizers	6	58 9	6 1	2	•••••	6	44 8	De	51	Ja 37 Au 5	51 7	43	8			72,018
42 43 44	Flavoring extracts. Flour-mill and gristmill products Food preparations, not elsewhere specified.	116 13	1,232 259	99 10	1 142 29	113 34	3 56 17	11 822 169	Ap Mh De	959	My 8 Jy 652	10 954 171	7 7 929 134	3 25 37			10,950 75,486 23,099,592 2,561,087
45 46 47 48 49 50	Macaroni, vermicelli, and noodles All other Foundry and machine-shop products. Boiler shops and foundries. Machine shops. Machine shop and foundry com- bined.	4 9 121 18 82 21	29 230 3,722 1,738 1,222 762	3 7 95 9 72 14	1 28 153 32 85 36	32 152 67 47 38	2 15 57 18 28 11	21 148 3,265 1,612 990 663	Oc	22 187 2,957 1,113 828	Se 18 Jy 112 De 868 De 799 De 455	22 149 2,460 868 855 737	17 117 2,442 868 838 736	32 8 7 1	9	i i	95,775 2,465,312 7,388,394 2,634,702 3,042,208 1,711,484
51 52 53	Fur goods. Furniture. Wood, other than rattan and willow.	6 23 17	1,004 870	8 14 9	5 46 35	5 34 28	6 15 13	59 895 785	Se s De	71 879	Ap 48 Ja 658	1,019 880	20 970 835	44 49 45	1		196,843 2,979,542 2,613,466
54 55 56 57	All other Gas, illuminating and heating Hardware, saddlery Hats and caps, other than felt, straw, and wool.	6 11 3 3	134 540 6 30	5 2 3	11 36 3	6 98	72 3	110 334 4 21	Oc De Fe No	6	Ja 76 Ja 261 Mh 3 Mh 15	139 414 5 29	135 414 5 8	21			366,076 14,549,796 5,000 43,454

I 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 No figures given for reasons stated under "Explanation of terms."

COMBINED AND SPECIFIED INDUSTRIES: 1919.

			EXP	ENSES.								P	OWER.			
Sala	aries and v	vages.		Rent a	nd taxes.	For ma	terials.				Prin	nary ho	rsepow	er.		
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.		Fuel and rent of power.	Value of products.	Value added by manufac- ture.	Total.	Steam en- gines (not tur- bines).	Own Steam tur- bines.	Inter-	Wa- ter pow- er.1	Rent-ed.2	Electric trice thorse power generated lishment reporting.

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES

Dollars.	.) 1
7, 816, 628 6, 183, 543 81, 003, 784 1,9:6, 402 1, 285, 941 12, 417, 927 201, 354, 721 4, 851, 320 366, 782, 627 160, 576, 856 304, 246 140, 640 25, 161 2, 166 43, 252 93, 127	25, 611
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3
$ \begin{bmatrix} 28,010 & 6,774 & 96,289 \\ 176,456 & 342,494 & 1,142,911 \\ 23,689 & 2,969 & 165,424 \end{bmatrix} , \begin{bmatrix} 638 & 93,183 & 168,803 \\ 1,983 & 180 & 9,242 \end{bmatrix} , \begin{bmatrix} 50,024 & 263,834 & 11,525 \\ 50,024 & 263,834 & 11,525 \\ 50,024 & 263,834 & 11,525 \\ 50,024 & 263,834 & 11,525 \\ 50,024 & 263,834 & 11,525 \\ 50,024 & 263,834 & 11,525 \\ 50,031,478 & 3,322,409 & 1,125 \\ 385,681 & 293,861 & 1,166 & 556 \\ 293,861 & 1,166 & 556 & 10 \\ 293,861 & 1,166 & 556 & 10 \\ 293,861 & 1,166 & 556 & 10 \\ 293,861 & 1,166 & 566 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,861 & 1,166 & 10 \\ 293,$	19 20 1
5,608	20 1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	39 1 15 1 15 1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 1 1 2
15, 087 15, 431 328, 169 364 206, 775 12, 058 578, 091 359, 260 728 728	2
242,710 110,436 3,663,827 4,420 2,232,075 222,263 6,472,962 4,018,624 2,938 763 2,175	72 2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	50 2 2 2 2 2 2 2 2 2 3
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	16 3 3 3 3 3 3 3 3
16, 222 1, 805 41 20, 436 74 57, 719 37, 209 3 6, 916 9, 285 20, 998 2, 782 816 37, 241 1, 067 103, 127 64, 819 35	3
6, 665 4, 282 54, 818 5, 100 521 25, 919 2, 018 154, 837 126, 900 72 72	4
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	34 4
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,100 4 1,100 4 1,100 4
13, 625 11, 270 63, 916 854 17, 400 8, 490 105, 174 1, 695 270, 445 163, 576 34 1, 695 270, 445 163, 576 82, 209 978, 203 54 10, 582 85, 891 1, 172, 976 48, 044 3, 182, 718 1, 961, 698 2, 832 90 617 2 2, 123 100, 403 73, 057 821, 197 54 2, 755 84, 877 1, 001, 307 44, 533 2, 694, 292 1, 648, 452 2, 658 617 2 2, 039	5 5 5
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2,089 5 5

⁴ Same number reported throughout the year.
5 Same number reported for one or more other months.

								TABLE	31.—DE	TAILED	STATI	EMEN'	r of	ALL	IND	USTRIES
			i		PERSO	NS ENG	AGED	IN THE I	ndustry.			GE EARN EST REPI				
					Sala-	Clerks	s, etc.		Wage earn	ers.		16 and	l over.	Und	er 16.	
	INDUSTRY.	Num- ber of estab-		Pro- prie-	ried offi- cers,			M**	Number, 1	5th day of—						Capital.
		lish- ments.	Total.	tors and firm mem- bers.	super- in- tend- ents, and man- agers.	Male.	Fe- male.	Average num- ber.	Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male.	Fe- male.	
	THE ST	ATE-	ALL IN	DUST	RIES	сомі	BINET	AND	SPECIFIE	D INDUST	RIES—C	ontinued	1.			
123456789	Hats, fur-felt. Ice, manufactured. Jewelry. Lapidary work. Leather goods, not elsewhere specified Leather, tanned, curried, and finished Looking glass and picture frames. Lumber and timber products. Lumber, planing mill products, not including planing mills connected with sawmills.	625 61	7 159 73 11 22 46 25 24,876 1,305	3 24 7 5 4 4 6 701 51	18 4 1 3 2 524 76	5 2 2 570 68	4 5 1 197 26	4 108 55 6 14 39 12 22,884 1,084	(*) 4 Jy 167 No 57 (*) 6 De 17 Ja 40 De 13 Au 27,697 Au 1,311	No 37 Ja 11 Ja 15,787 Ja 794	4 115 56 6 17 38 14 27,264 1,229	115 45 5 10 38 11 26,780 1,157	11 1 7 3 463 70	21	1	Dollars. 6,397 1,123,460 56,998 7,489 44,378 242,998 100,071 83,482,424 3,908,674
10 11	Marble and stone work. Mattresses and spring beds, not elsewhere specified.	17 6 6	96 105 52	16 8 9	8 6	6	3 3 2	55 82 41	My 63 No 1 111		111	*89 8	39			289,386 45,718
13 14 15 16	Millinery and lace goods, not else- where specified. Trimmed hats and hat frames All other. Mineral and soda waters. Models and patterns, not including paper patterns.	3 33	20 32 181 28	5 4 34 6	8	27	2 3	15 26 109 22	Ap 4 18 De 31 Je 137 Je 28	Ja 74	16 31 125 23	7 1 120 23	9 30 4	i		22,118 23,600 1,488,121 22,598
17 18 19	Patent medicines and compounds. Patent and proprietary medicine Patent and proprietary com pounds, not elsewhere specified	16 10 6	197 163 34	28 22 6	25 19 6	26 21 5	19 16 3	99 85 14	Oc 116 Mh 4 18	My 4 71 De 8	96 83 13	24 14 10	72 69 3			1,955,850 1,822,132 133,718
20 21 22 23 24 25 26	pounds, not elsewhere specified Paving materials Pheto-engraving. Pickles, preserves, and sauces. Printing and publishing, book and job Job printing. All other Printing and publishing, newspapers and periodicals. Printing and publishing.	11 4 8 122 113	117 28 214 890 825 65 1,857	7 3 5 120 108 12 205	3	374 25	1 15 58 47 11 219	99 21 148 567 545 22 929	Se 196 De 25 Jy 177 De 595 Fe 23	Ap 4 19 De 125 Se 524 My 20 Fe 98	155 21 131 607 584 23 1,011	153 14 79 471 451 20 877	2 7 52 128 126 2 114	8 7 1 19	1	344, 435 21, 090 1, 847, 257 2, 090, 450 1, 968, 987 121, 463 3, 493, 299 300, 803
28 29	Printing, publishing, and job printing. Publishing without printing	158	1,540 145	161	1	29	156 50 9	823 1 182	De 883 (8) 1 Ja 281	(2) 1	895 1 156	776	102 1 5	17		3,065,075 127,421 984,702
30 31 32 33 34	Shipbuilding, wooden, including boat building. New vessels. Repair work only. Small boats, and masts, spars,	30 15	3, 255 3, 171 37 47	29 33 23 5 4 14	64	117	52 52	2,990 2,933 29 28	Ja 7,757 Jy 37 Ja 46	Oc 624 Je 19	4,396 4,328 24 44	4,386 4,318 24 44	10			9, 667, 360 9, 437, 117 78, 014 152, 229
35 36 37 38	oars and rigging. Signs, other than electric. Slaughtering and meat packing. Stoves and hot-air furnaces. Structural ironwork, not made in steel works or rolling mills.	6 6	28 1,035 155 1,248	10 10 11 5	29 11 26	85	6 21	126 1,111	Oc 20 Ja 927 Ja 169 Oc 3,346	Jy 698 De 102 Fe 86	1,387	18 629 101 1,387	90	2 1		13,318 5,255,407 245,584 687,142
39 40 41 42 43 44	Tobacco, cigars. Tools, not elsewhere specified. Trunks and valises. Vinegar and cider. Wood, turned and carved. Wooden goods, not elsewhere speci-	10 8	144 24 77 78 75 16	47 3 5 4 5 3	1 4	4 2	2	91 19 59 60 65 13	De 108 Ja 4 22 No 72 Oc 114 Oc 85 De 25	Fe 16 Ja 48 My 20 Ja 37	106 19 71 121 78 12	85 19 39 114 55 12	32 7 23			371, 257 40, 280 198, 076 408, 157 127, 238 36, 394
45 46	fied. Woolen goods. All other industries*	1	858 10,742	9i	. 17	27 286	6 177	808 9, 956	Se 909	Mh 701	855	457	392			2,459,000 28,852,919
Ar Av Ba Ba Ba Bl Ba Ba Ba Ba Ba	*All other industries embrace— ricultural implements	Chem Clean tion Corda Electr Enan Engir Fancy nov Flags Flax:	nt	d poli	shing g sirup and w per ar sed en's ne	prepar ater id wo	1 rs- 2 1 1 3 ood 2 1 1 1	Galvar Gas an Gas an Glass, men Gloves cludi mills Gloves Glucos Grease brice Hair w	nizing	tures	orna- ot in- extile 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hardy Instru- tifice Iron a mill Iron a and mill Iron a Iron a	ware uments, nd steel s. nd stee rivets, s. nd steel nd stee made in s. nd steel	profes , steel v l, bolt not l, cast- l, cut :	sional a works a s, nuts, made i iron pip nails an works	2 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4

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).

			EXP	enses.				*				PC	WER.			
Salı	ries and w	ages.		Rent an	d taxes.	For mat	erials.	-			Prim	ary hor	sepowe	r.		Elec-
to de la company de descripción e la company de la company	AND DESCRIPTION OF THE PERSON	A Complete and the Comp						Value of products.	Value added by manufac-			Own	ed.			tric horse- power
OMcials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	production	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	gener- ated in estab- lish- ments report ing.
- A PARAMETER OF THE PA			THE ST	ATE—AL	r indra	TRIES COI	MBINED	AND SPEC	IFIED INI	OUSTRI	ES—Con	tinued.				
45, 922 8, 479 1, 000 5, 400 3, 101 1, 109, 393 228, 808	Dollars. 12, 120 6, 675 3, 875 3, 964 1, 161, 198 127, 074	Dollars. 3, 600 157, 943 72, 066 4, 855 15, 120 49, 177 14, 930 32, 437, 677 1, 389, 375	Dollars. 555 645 830, 284 17, 270	Dollars. 1,430 15,450 5,410 726 2,280 4,322 147,374 30,918	Dollars, 58 22,438 910 59 478 1,005 1,160 2,476,077 85,977	Dollars. 8, 549 20, 927 44, 943 2, 009 36, 327 231, 861 38, 027 31, 432, 701 3, 226, 034	Dollars. 307 83,731 838 1,277 1,602 4,451 330 701,942 52,252	Dollars. 21, 560 556, 002 187, 490 17, 847 68, 977 314, 567 91, 996 85, 347, 711 5, 804, 349	Dollars. 12, 614 451, 344 141, 709 14, 471 31, 048 78, 255 53, 639 53, 213, 068 2, 526, 063	2 2,440 32 31 12 203 12 163,737 5,901	115 16 115, 457 2, 643	22, 784	2 10 917	195 3, 208 75	2, 130 32 29 12 187 2 21, 371 3, 118	18, 114
21, 410 19, 250	21, 716 8, 627	89, 370 89, 737	*******	7, 803 4, 935	1, 961 1, 445	141, 035 325, 496	8, 132 3, 552	354, 138 534, 140	204, 971 205, 092	318 155					318 155	
	1,480	20, 615	200	6, 657	249	30, 988	714	91, 951	60, 249	7					7	
17, 520	1, 480 47, 107	10, 806 15, 809 153, 614 32, 410	200	4, 079 2, 578 6, 842 2, 460	120 129 63,061 156	17, 985 13, 003 630, 481 16, 248	504 150 21,099 937	47, 806 44, 145 1, 082, 599 70, 859	29, 257 30, 992 422, 019 53, 674	1,097 39	708		4	2	383 383 39	
95, 306 75, 047 20, 259	51, 080 45, 117 6, 863	90, 605 71, 323 19, 282	15 15	8, 436 7, 634 802	25, 861 24, 855 1, 006	574, 032 450, 425 123, 607	5, 480 3, 688 1, 792	1,063,828 876,521 187,307	484, 316 422, 408 61, 908	162 79 83	86 40 46			10 10	66 39 27	
10, 800 2, 220 48, 915 247, 676 242, 244 5, 432 341, 155	1, 240 2, 630 79, 517 146, 484 129, 902 16, 582 777, 797	143, 995 34, 402 186, 607 724, 532 695, 859 28, 673 1, 363, 102	23, 052 22, 196 1, 756 284, 087	3, 169 2, 460 8, 007 76, 145 73, 703 2, 442 118, 484	3, 126 877 17, 680 54, 691 54, 062 629 218, 906	45, 175 16, 282 1, 455, 161 1, 233, 513 1, 227, 258 6, 255 1, 582, 253	23, 707 915 30, 712 23, 858 22, 180 1, 678 61, 838	266, 267 106, 196 1, 794, 022 3, 395, 859 3, 288, 807 107, 052 6, 408, 348	197, 385 88, 999 308, 149 2, 138, 488 2, 039, 369 99, 119 4, 764, 257	1,600 10 433 703 785 8 1,681	92		5	32 1 1 1	1,116 10 336 792 784 8 1,614	1
28,941 243,688	34,574 643,704	152, 203 1, 210, 495	8, 511 5, 904	7,552 96,647	19, 255 190, 490	93,778 1,458,011	7, 317 54, 388	534, 048 5, 159, 605	432, 953 3, 646, 606	150 1,530			54	i3	150 1,463	
68, 526 40, 568 269, 210	99, 459 35, 804 276, 739	404 245,004 4,000,106	269, 622 57, 534	14,285 17,502 74,072	3, 161 52, 252 585, 641	29, 864 931, 547 6, 754, 145	133 6,437 90,417	714,695 1,931,187 13,777,615	684,698 993,203 6,924,053	233 7, 282	1,544	1	140		233 5,598	<u>-</u>
245,010 7,200 17,000	273, 878 1, 200 1, 661	4,510,138 61,929 37,120	57, 584	70,072 1,800 2,110	570, 537 1, 380 13, 724	6,023,748 48,585 81,812		13, 433, 491 141, 777 202, 347	6,712,068 93,022 118,963	7,030 87 150	1,469 55 20		120 14 6		5,447 18 133	
112,047 40,200 91,478	744 314, 206 9, 542 50, 463	23, 102	675 16, 180 4, 672	4,102 24,461 3,315 16,974	79 40, 760 8, 269 10, 164	22, 134 13, 625, 004 172, 168 3, 814, 836	78 124, 329 8, 357 33, 290	77, 245 15, 868, 109 597, 904 0, 392, 273	55,033 2,118,836 417,379 2,544,147	3,048 136 4,618	435	100			2,513 136 4,618	
317 3,280 24,381 21,856 6,450	5,400 20,686 3,016 100 758	95, 965 83, 995		7,374 2,072 7,170 3,540 2,020 1,033	40, 631 842 3, 710 11, 157 602 149	103, 590 30, 081 176, 058 370, 506 58, 591 20, 132	1, 407 1, 168 1, 065 9, 190	367, 450 78, 602 309, 350 529, 403 158, 718 44, 454	202, 453 46, 803 221, 027 149, 767 96, 984 23, 074	م اا	28 120			12 15	6 20 32 179 323 93	
	1	1	. []	l ' ""	1	1	1		1 410 100	0.011	1 20	1	1	1 250	098	4

Knit goods. Labels and tags
Tabaly and to en
Trancia titti (tilla
Lamps
Limo
Tigggord avolt
raditors, math.
Liquors, malt. Minerals and earths, ground or other-
wise treated
wise treated Mirrors, framed and unframed, not
withous fishing and innisting, and
olsownore specified
olsowhere specified
not specified. Needles, pins, and hooks and eyes
TOO BIJOCHIOU
Needles, pins, and hooks and eyes
Oil, linsood.
Oil, animal
Olt, Willillittan and a construction

72,935 754,064 781,788 14,750,685

57, 595 1, 032, 031

1, 996 14, 350

11222

1 1 120, 270

Optical goods	5 2 4	25 25 25 25 25 25 25 25 25 25 25 25 25 2
and shelling. Portumery and cosmetics. Phonographs and graphophones. Photographic materials. Pottery, carthen and stone ware. Pulp goods, wall board. Pumps, steam. Roofing materials. Rubber tires, tubes, and rubber goods, not elsewhere specified.	1 2 2 2 2 1 1 2 2	

1, 858, 725 35, 512, 200 1, 243, 699

62, 171 5, 480, 324

Sausage, not made in slaughtering and moat-packing establishments, Saws. Shipbuilding, steel, new vessels. Shirts.
Soap Sporting and athletic goods. Springs, steel, automobile. Statuary and art goods. Steam packing.
Stonells and brands Stereotyping and electrotyping. Surgical appliances.

2, 341 58, 670

7,916

3, 688 1,250 35,211 Tinware, not elsewhere specified.
Toys and games.
Typowriter supplies, carbon paper.
Upholstering materials, excelsior
Varnishes.
Wall plaster and composition flooring
Waste, cotton.
Window shades and fixtures.
Wirowork, not elsewhere specified.
Wood preserving.
Wool pulling.
Wool scouring.
Worsted goods.

45 46

3, 356, 659 69, 253, 673

⁸ Same number reported throughout the year.
4 Same number reported for one or more other months.

TABLE 31.—DETAILED STATEMENT OF ALL INDUSTRIES

		PERSONS ENGAGED IN THE INDUSTRY.								WA(NEAR					
				Sala-	Clerks, etc.		Wage earners.			16 and over.		Under 16.			
INDUSTRY.	Num- ber of estab- lish- ments.	Total.	and firm mem- bers.	ried offi- cers, super- in- tend- ents,		Fe- male.	Aver- age num- ber.	Maximum month.	5th day of— Minimum month.	Total.	Male.	Fc- male.	Male.	Fe- male.	Capital.

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

-	CITIES OF 50,000 I	INHAB	TIMMIA	OR	HORE	,/1.1.1	IND	OSTATI	28 COM	SINEL	AND	SPECIEL	ED INL	USTR	LES.		
1	PORTLAND—Allindustries	846	32, 157	669	1,885	1,839	951	26,813	Mh 30,9	991 D	e 20,564	29, 396	26, 241	3,107	32	16	Dollars, 106, 365, 175
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Artificial ctone products Automobile bodies and parts. Automobile repairing. Boxes, set-up paper boxes and cartons Bread and other bakery products. Brick, sewer pipe, and draintile. Brooms. Butter. Carpets, rag. Clothing, men's. Clothing, women's. Suits, skirts, and cloaks. All other. Coffee, roasting and grinding. Coffins, burial cases, and undertakers' goods.	67 5 61 3 7 10 3 5 7	39 58 497 186 1,187 49 100 231 39 549 64 23 41 176 93	5 12 64 2 66 1 3 4 3 8 8 5 3 2	5 1 34 7 63 4 8 20 3 19	1 34 33 143 25 1 44 5	20 5 62 23 1 16 2 8 5	27 44 345 169 853 44 84 142 29 481 53 18 35 106	Au 3 De 2 No 8 Oc 1 De 1 Oc De 6 Oc Jy 1	40 Ja 51 Ja 51 Ja 51 Ja 51 Ja 52 F 605 Ja 808 M 8111 Ja 804 M 172 D 36 Ja 603 M 26 Ja 46 Ja 80 Se	31 e 304 149 y 813 y 61 e 113 , 2 24 h 396	44 46 346 205 878 85 105 115 34 603 65 26 39 104	44 45 339 71 554 84 71 90 27 92 11 6 5 54	1 7 134 312 1 1 34 25 7 510 54 20 34 50 14		10	100, 349 76, 586 543, 383 323, 641 2, 339, 969 601, 491 267, 994 1, 288, 286 1, 777, 643 80, 556 46, 134 34, 422 1, 548, 296 407, 828
17 18 19 20	Confectionery and ice cream. Copper, tin, and sheet iron work. Dentalgoods Electrical machinery, apparatus, and	5	521 265 18 31	27 40 5 2	32 27 4	63 23 3	40 9 2	359 166 13 20	Oc 1	102 F 199 Ja 15 F 23 A	127 28 12	396 179 12 21	164 179 9 18	232 3 3			1,041,796 626,533 8,942 50,256
21	Engraving, steel and copper plate, including plate printing.	6	58	. 6	2		. 6	44	De	51 Ла	37	51	43	. 8			72,018
22 23 24	supplies, Engraving, steel and copper plate, including plate printing. Flavoring extracts. Flour-milland gristmill products. Food preparations, not elsewhere specified.	4 7 13	21 529 259	4 10	1 48 29	2 74 34	3 33 17	11 374 169		14 M 140 Jy		10 440 171	7 422 134	3 18 37			75,486 12,414,228 2,561,087
25 26 27 28 29 30	Macaroni, vermicelli, and noodles. All other Foundry and machine-shop products. Boiler shops and foundries Machine shops Machine shop and foundry combined.	4 9 64 14 45 5	29 230 3,254 1,723 1,079 452	36 4 29 3	1 28 132 31 83 18	2 32 140 66 45 29	2 15 49 18 25 6	21 148 2,897 1,604 897 396	Oc 1 Ja 2,9 Ap 1.0	22 Se 187 Jy 053 De 121 De 129 De	112 857 711	22 149 2,017 857 757 403	17 117 2,007 857 747 403	5 32 6 6	4		95,775 2,465,312 6,025,122 2,600,364 2,668,961 755,797
31 32 33	Fur goods. Furniture Hatsandcaps, other than felt, straw, and wool.	6 14 3	83 852 30	8 7 3	5 37 3	27 27	12 3	59 769 21	Oc 8	71 A1 82 Ja 30 M	625	65 879 29	20 842 8	44 37 21	1		196,843 2,698,226 43,454
34 35 36 37 38 39	Hats, fur-felt. Ice, manufactured Leather goods, notelsewhere specified Looking-glassand picture frames. Lumber and timber products. Lumber, planing-mill products, not including planing mills connected	3 7 6 4 19	7 75 22 25 3,542 655	3 7 4 6 1 12	11 1 2 80 39	3 2 74 38	3 1 5 44 17	51 14 12 3,843 549	De De Jy 3.9	4 (4) 71 De 17 M 13 Ja 78 Ja 26 Ja	37 y 11 11	4 41 17 14 3,656 614	41 10 11 3,578 585	7 3 76 27	2 1	i	6,397 686,371 44,378 100,071 16,877,218 1,474,474
40	with sawmills. Marble and stone work, monuments and tombstones.	6	54	6	6	11	1	30	My	37 Ja	23	32	32				210,912
41	Millinery and lace goods, not elsewhere specified.	6	52	9			2	41				47	8	39			45,718
42 43 44 45	Trimmed hatsand hatframesAll otherMineraland soda watersModels and patterns, not including paper patterns.	3 6 5	20 32 115 28	5 4 6 6	6	26	2 2	15 26 75 22	Dê :	18 Ja 31 Ja 95 Ja 28 Ja	25 54	16 31 77 23	7 1 76 23	9 30 1			22,118 23,600 1,320,381 22,598
46 47 48 49 50 51	Patent medicinesand compounds. Photo-engra ving Printing and publishing, book and job Job printing All other Printing and publishing, newspapers and partogicals	10 4 79 70 9 58	177 28 783 718 65 1,072	21 3 69 57 12 33	22 76 73 3 71	23 1 63 46 17 338	17 54 43 11 164	94 21 521 499 22 466	De 5	22 M ₃ 25 A ₁ 38 Se 23 M ₃	480	87 21 550 527 23 506	18 14 437 417 20 479	69 7 106 104 2 23	7 6 1		1,849,184 21,090 1,824,017 1,702,554 121,463 1,980,537
52	Printing, publishing, and job printing.	18	938	13	35	310	115	465	De 50	05 Fe	435	505	479	23	3 .		1,861,102
53 54 55	Publishing without printing Saddlery and harness Shipbuilding, wooden, including boat building,	40 11 9	134 193 1,956	20 8 3	36 14 39	28 15 99	49 7 28	1 149 1,787	(4) Ja 25 Ja 5,00	1 (4) 55 No 1 No	112 110	1 122 2,300	117 2,300	5	1	•	119,435 725,257 5,890,991
56 57	Structural ironwork, not made in steel works or rolling mills.	9 6	28 1,248	10 5	26	85	2 21	1,111 1,111	Oc 3,3	20 Ja 46 Fe	12 86	18 1,387	1,387				13,318 687,142

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).

COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

			EXF	ENSES.				POWER.								
Salaries and wages.				Rent ar	ıd taxes.	For ma	terials.			Primary horsepower.						Elec-
Officials.	Clerks, etc.	Wage earners.	For contract work.	Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Value of products.	Value added by menufac- ture,	Total.	Steam en- gines (not tur- bines).	Steam tur- bines.	Inter-	Wa- ter pow- er.1	Rent- ed. ²	tric horse- power gener- atedir

CITIES OF 50,000 INHABITANTS OF MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

		,	 		,					<u> </u>							
Dollars. 4,260,286	Dollars. 3,903,891	Dollars. 38, 758, 259	Dollars. 828, 833	Dollars. 926, 314	Dollars. 9,232,908	Dollars. 109, 093, 953	Dollars. 2,292,626	Dollars. 196, 380, 146	Dollars. 84,993,567	70, 536	20,091	2,117	43		48, 285	3, 475	1
18,478 1,650 57,718 38,040 159,956 6,164 19,744 47,794	1,242 360 50,906 8,944 315,903 999 8,653 66,566	45, 286 65, 863 486, 069 124, 739 887, 273 48, 104 72, 167 152, 307	402,720	2, 145 10, 703 61, 913 14, 958 65, 252 4, 420 18, 305	842 1,153 5,603 16,589 159,750 6,411 7,143 11,931	63,714 100,573 369,981 298,585 4,394,341 6,812 291,190 2,160,786	1,567 3,395 20,447 5,554 95,011 21,116 3,211 24,247	168, 163 216, 832 1, 265, 165 585, 249 7, 157, 084 103, 776 412, 060 2, 652, 847	102, 882 112, 864 874, 737 281, 110 2, 667, 732 75, 848 117, 659 467, 814	36 79 426 167 805 365 103 725	50 103 225 50		10		36 79 426 117 692 140 53 725	19 20	23456789
47,794 1,650 42,159 48,379 30,904	2,432 36,675 3,530 3,530 88,213 7,895	30, 813 348, 455 44, 265 13, 555 30, 710 97, 524 113, 268		1,685 9,000 5,921 900 5,021 17,130 1,500	50 26,549 1,088 784 304 49,692 10,857	18,340 1,322,435 81,309 29,696 51,613 2,964,540 288,452	866 6,587 1,277 466 811 13,557 1,792	71,624 2,034,335 153,695 48,675 105,020 3,590,207 494,442	52,418 705,313 71,109 18,513 52,596 612,110 204,198	38 224 11 3 8 420 144	7 150				31 74 11 3 8 420 144	50	10 11 12 13 14 15 16
109,251 66,658 6,916	137,860 36,097 9,285	339, 363 267, 268 16, 222 20, 998	1,800	19,379 16,796 1,805 2,782	108,135 16,324 41 816	1,893,642 - 487,870 - 20,436 - 37,241	39, 273 7, 517 74 1, 067	2,935,436 1,129,107 57,719 103,127	1,002,521 633,720 37,209 64,819	768 234 3 35	75		20		673 234 3 35		17 18 19 20
6,565 1,500 184,116 69,465	4,282 6,920 139,713 95,447	54, 818 12, 286 553, 123 170, 208	26,603	5,100 3,240 14,270 12,687	521 65 124,018 66,297	25,919 141,669 20,024,803 3,616,096	2,018 1,207 85,094 27,141	154,837 192,474 22,525,761 4,217,694	126,900 49,598 2,415,864 574,457	72 15 3,179 1,729	750			••••••	72 15 3,179 979		21 22 23 24
1,500 67,965 534,922 152,381 273,512 109,029	3,736 91,711 252,042 99,162 94,193 58,687	21,887 148,321 5,372,370 3,366,115 1,347,337 658,918	7,301 2,750 4,551	2,658 10,029 59,300 15,768 35,262 8,270	1,145 65,152 1,238,280 916,031 185,231 137,018	113,607 3,502,489 7,953,938 4,664,559 2,229,008 1,060,371	4,663 22,478 306,196 177,355 71,613 57,228	164,943 4,052,751 19,423,232 11,515,024 5,413,529 2,494,679	46,673 527,784 11,163,098 6,673,110 3,112,908 1,377,080	1,729 1,623 6,781 4,219 1,459 1,103	750 3,175 3,075 100				106 873 3,606 1,144 1,359 1,103	1,100 1,100	25 26 27 28 29 30
13,625 107,795 • 5,580	11,270 69,527 2,412	63,916 871,166 23,006	854	17, 400 9, 846 1, 380	8,490 81,932 250	105,174 1,067,015 45,673	1,695 39,267 471	270, 445 2, 899, 667 103, 961	163,576 1,793,385 57,817	2,551 6	90	617			34 1,844 6		31 32 33
31,862 1,000 3,101 353,367 128,614	8,826 3,875 3,964 181,493 85,412	3,600 83,589 15,120 14,939 4,769,031 772,479	500 18,124	1,430 5,700 2,280 4,322 56,368 27,087	58 10,932 478 1,166 746,337 56,605	8,549 9,859 36,327 38,027 9,073,911 1,380,441	397 48,551 1,602 330 127,078 30,438	21,560 275,088 68,977 91,996 18,845,793 2,716,868	12,614 216,678 31,048 53,639 9,644,804 1,305,989	957 12 12 19,531 2,679	12,017 855		10		957 12 2 7,514 1,824	275	34 35 36 37 38 39
18,410	17,776	51,018		6,600	1,222	96,210	3,439	241,180	141,531	161					161		40
	1,480	26,615	200	6,657	249	30,988	714	91,951	60,249	7		·····			7		41
15,600	1,480 45,247	10,806 15,809 118,731 32,410	200	4,079 2,578 1,270 2,460	120 129 60,964 156	17,985 13,003 492,377 16,248	564 150 17,137 937	47, 806 44, 145 795, 251 70, 859	29,257 30,992 285,737 53,674	937 39	660				3 4 277 39		42 43 44 45
84,306 2,220 229,746 224,314 5,432 239,696	51,980 2,630 142,552 125,970 16,582 712,089	84, 685 34, 402 674, 648 645, 975 28, 673 804, 070	23, 902 22, 146 1, 756 272, 732	8,157 2,460 66,252 63,810 2,442 79,576	25, 120 877 53, 078 52, 449 629 200, 495	517, 985 16, 282 1,145,407 1,139,152 6,255 1,224,616	4,195 915 20,162 18,484 1,678 27,410	977, 395 106, 196 3, 119, 527 3, 012, 475 107, 052 4, 630, 780	455, 215 88, 999 1, 953, 958 1, 854, 839 99, 119 3, 378, 754	95 10 700 692 8 1,055	40				55 10 700 692 8 1,055		46 47 48 49 50 51
171,170	612,830	803,666	10,827	65, 513	197,368	1,195,773	27,410	3,934,473	2,711,290	1,054					1,054		52
68,526 33,768 171,779	99, 259 28, 962 205, 024	192,004 2,907,407	261,905 57,534	14,063 11,245 61,357	3,127 45,822 527,936	28,843 784,122 5,357,508	4,426 51,096	696,307 1,635,654 9,881,322	667, 464 847, 106 4, 472, 718	215 3,658	517				215 3,141		53 54 55
91,478	744 50,463	23,102 1,704,796	675 4,672	4,102 16,974	79 10, 164	22,134 3,814,836	78 33,290	77, 245 6, 392, 273	55,033 2,544,147	4,618					4,618		56 57

Same number reported for one or more other months.

TABLE 31.—DETAILED STATEMENT OF ALL INDUSTRIES

					PERSO	NS ENG	AGED	IN THE I	ndustry.		WAC NEAR	BE EARN EST REP	ERS DE	C. 15, C	R DAY,	
		Num-			Sala- ried	Clerk	s, etc.		Wage earr	iers.		16 and	over.	Und	er 16.	
	INDUSTRY.	ber of estab- lish- ments.		Pro- prie- tors and firm mem- bers.	cers, super- in- tend-		Fe- male.	Average number.	Number, 18 Maximum month.	Minimum month.	Total.	Male.	Fe- male.	Male.	Fe- male.	Capital,
!	CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.															
1 2 3 4 5	PORTLAND—Continued. Tobacco, cigars. Trunks and valises. Vinegar and cider Wood, turned and carved All other industries*	5	10 62	16 5 1	1 7 2 3 968	1 4 1 379	2 1 254	46 59 6 58 10,986		Mh ² 43 Ja 48 Ap ⁸ 1 Ja 38	57 71 22 71 12,683	47 39 22 48 11,554	32			Dollars. 275, 145 198, 076 43, 737 86, 825 37, 498, 555
* All other industries embrace— Artificial llimbs. 1 Barshes. 1 Canning and preserving, fish. 1 Canning and preserving, fruits. 2 Bags, other than paper, not including bags made in textile mills. 2 Baskets, and rattan and willow ware 1 Blacking, stains, and dressings. 1 Blacking, stains, and dressings. 1 Bloing. 2 Boxes, cigar 1 Boxes, wooden packing, except 2 Boxes, wooden packing, except 2 Boxes, wooden packing, except 2 Brushes. 3 Canning and preserving, fixits. 2 Carning and preserving, fixits. 2 Carling and preserving, fixits. 2 Carling and preserving, fixits. 2 Cordage and twine. 1 Cordials and flavoring sirups. 1 Cordials and flavoring sirups. 1 Electroplating 2 Electroplating 2 Enameling 2 Enameling 2 Enameling 3 Engines, steam, gas, and water 1 Engines, steam, gas, and water 1 Engines, steam, gas, and water 1 Fancy articles, paper novetites. 1 Fartillizers 1 Farga and bearties. 3 Gas sand electric fixtures. Gas, illuminating and heating. Carliages and twine. 2 Carliage and twine. 2 Carliages and twine. 2 Carliages and twine. 2 Carliages and troires. 3 Carliages and twine. 2 Carliages and twine												and and roll-				
	CI	TIES	OF 10,00	0 ТО	50,000	INHA	ВІТА	NTS—A	LL INDUS	TRIES CO	MBINEI) .				
1 2 3	ASTORIA. EUGENE	78 52 84	1,641 661 1,341	61 52 83	74 49 62	49 13 59	53 13 57		Ja 1,871 Au 793 Se 1,525	De 1,027 Ja * 354 Fe 705	2,200 777 1,600	1,988 413 1,024	212 364 563	1	12	11,881,102 1,706,894 5,636,770

¹ 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).

COMBINED AND SPECIFIED INDUSTRIES: 1919.

			EX	PENSES.								Po	ower.				==
Sala	aries and w	ages.		Renta	nd taxes.	For ma	terials.				Prin	ery hor	sepow	er.		Elec-	
			For					Value of products.	Value added by manufac-			Own	eđ.	-		tric horse- power gener-	
Officials.	Clerks, etc.	Wage earners.	contract 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	Inter- nal- com- bus- tion en- gines.	Water pow- er,1	Rent- ed.3	ated in estab- lish- ments report- ing.	
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.																	
Dollars. 317 24,381 3,856 5,200 1,242,556	Dollars. 2,000 20,686 1,196 100 980,219		Dollars.	3,875 7,170 3,300 2,520	Dollars. 18,560 3,710 2,670 406 5,522,997	Dollars. 77,016 176,658 40,018 55,129 36,898,771	Dollars. 717 1,665 2,914 2,650 1,202,838	Dollars. 167, 201 399, 350 62, 267 139, 574 72, 652, 900	Dollars. 89,468 221,027 19,335 81,795 34,551,291	3 32 107 293 16,460	1,327				32 107 293	2,011	1 2 3 4 5
Tron and steel, bolts, nuts, washers, and rivets, not made in rolling mills														42132122 122 21111			
248, 154 100, 437 169, 170	126, 487 20, 195 155, 509	2,072,076 474,147 1,179,334	171,481 3,280 7,866	27,507 13,680 21,000	176,461 22,009 264,770	9, 106, 322 1, 407, 454 6, 617, 449	164, 252 64, 775 123, 359	13, 398, 627 2, 489, 647 9, 435, 070	4,128,053 1,017,418 2,691,262	6,832 2,133 3,324	2,646 295 1,551	40	8	260 170	4,178 1,538 1,597	57 20 62	1 2 3

 $^{{}^{2}}$ Same number reported for one or more other months.