

CHAPTER 2.

COMPOSITION AND CHARACTERISTICS OF THE POPULATION.

Introduction.—The first chapter having given the number of inhabitants of Ohio by counties and minor civil divisions, the decennial increase and the density of population, and the proportions urban and rural, the present chapter deals with the composition and characteristics of the population. The two chapters cover all the principal topics of the population census except occupations and ownership of homes.

Description of the tables.—The greater part of this chapter consists of five general tables, which present statistics of color, nativity, parentage, sex, citizenship, illiteracy, school attendance, and dwellings and families, as follows: Table I for the state and counties; Table II for cities of more than 25,000 inhabitants; Table III for cities of 10,000 to 25,000; Table IV for places of 2,500 to 10,000; and Table V for wards of cities of more than 50,000 inhabitants.

A series of summary tables (numbered 1 to 16) reproduces from the general tables the more important state and city totals, and presents also certain additional data relative to state of birth, age, and marital condition.

On account of the wide differences in characteristics among the different classes of the population, the statistics on each subject are shown according to race, and for the whites according to nativity and parentage. Classification according to nativity and parentage is scarcely necessary for the other races, since nearly all negroes and Indians are native born of native parentage, and nearly all Chinese and Japanese either foreign born or of foreign parentage.

The white population is divided into four groups: (1) Native, native parentage—that is, having both parents born in the United States; (2) native, foreign parentage—having both parents born abroad; (3) native, mixed parentage—having one parent native and the other foreign born; (4) foreign born. As the second and third classes do not differ greatly in characteristics, they are combined in some of the tables; in a few cases all three native white classes are combined.

Since marked differences often exist between urban and rural communities with respect to the composition and characteristics of the population, the two classes are distinguished in connection with several of the subjects. Urban population, as defined by the Bureau of the Census, includes that of all incorporated places of 2,500 inhabitants or more, the remainder being classified as rural.

The census inquiry as to school attendance was merely as to whether the person enumerated had attended any kind of school at any time between September 1, 1909, and the date of enumeration, April 15, 1910.

The Census Bureau classifies as illiterate any person 10 years of age or over who is unable to write, regardless of ability to read.

Color and nativity (Table 1).—Of the total population of Ohio, 3,033,259, or 63.6 per cent, are native whites of native parentage; 1,024,393, or 21.5 per cent, are native whites of foreign or mixed parentage; 597,245, or 12.5 per cent, are foreign-born whites; and 111,452, or 2.3 per cent, are negroes. The corresponding percentages in 1900 were 63.8, 22.8, 11, and 2.3, respectively, the comparison indicating that changes in the composition of the population during the decade have been slight. In 51 of the 88 counties the percentage of foreign-born whites is less than 5, and in only 15 does it exceed 10, the maximum, 33.6, being that for Cuyahoga, the most populous county. The percentage of native whites of foreign or mixed parentage ranges higher, being less than 5 in only 6 counties, and exceeding 10 in 57. (See maps on page 637.) In 60 counties the population is more than three-fourths native white of native parentage.

Of the urban population, 51 per cent are native whites of native parentage; of the rural, 79.6 per cent. The corresponding proportions for native whites of foreign or mixed parentage are 28 and 13.2 per cent, respectively. The percentage of foreign-born whites is 17.9 in the urban population and 5.7 in the rural; the percentage of negroes is 3.1 in the urban and 1.4 in the rural.

Sex (Tables 2 and 15).—In the total population of the state there are 2,434,758 males and 2,332,363 females, or 104.4 males to 100 females. In 1900 the ratio was 102.3 to 100. Among native whites the ratio is 100.1 to 100; among foreign-born whites, 137.8 to 100. In the urban population there are 102 males to 100 females, and in the rural, 107.5.

State of birth (Tables 3 and 4).—Of the total native population—that is, population born in the United States—85.1 per cent were born in Ohio and 14.9 per cent outside the state; of the native white population, 14 per cent were born outside the state; and of the native negro, 46.6 per cent. Persons born outside the state constitute a larger proportion of the native population in urban than in rural communities.

Foreign nationalities (Tables 5 and 12).—Of the foreign-born white population of Ohio, persons born in Germany represent 29.3 per cent; Hungary, 14.4; Austria, 12.2; Russia, 8.2; England, 7.3; Italy, 7; Ireland, 6.7; Canada, 3.9; Switzerland, 1.8; Scotland, 1.8; all other countries, 7.5 per cent. Of the total white stock of foreign origin, which includes persons born abroad and also natives having one or both parents born abroad, Germany contributed 41.6 per cent; Ireland, 10.3; England, 7.9; Austria, 7.7; Hungary, 7.2; Russia, 4.7; Italy, 3.8; Canada, 3.4; Switzerland, 2.1; Wales, 1.9; Scotland, 1.9 per cent.

Voting and militia ages (Table 6).—The total number of males 21 years of age and over is 1,484,265, representing 31.1 per cent of the population. Of such males, 56.7 per cent are native whites of native parentage, 19.8 per cent native whites of foreign or mixed parentage, 20.8 per cent foreign-born whites, and 2.6 per cent negroes. Of the 308,478 foreign-born white males of voting age, 142,465, or 46.2 per cent, are naturalized. Males of militia age—18 to 44—number 1,076,928.

Age (Tables 7, 8, and 13).—Of the total population, 10.1 per cent are under 5 years of age, 18.1 per cent from 5 to 14 years, inclusive, 18.9 per cent from 15 to 24, 30.6 per cent from 25 to 44, and 22.3 per cent 45 years of age and over. The foreign-born white population comprises comparatively few children, only 5.4 per cent of this class being under 15 years of age, while 79.8 per cent, or nearly four-fifths, are 25 years of age and over. Of the native whites of foreign or mixed parentage, 52.2 per cent are 25 and over, and of the native whites of native parentage, 47.5 per cent.

The urban population shows a smaller proportion of children than the rural and a larger proportion of persons in the prime of life. Migration to the city explains this at least in part. Of the urban population, 33.7 per cent are from 25 to 44 years of age, inclusive, and of the rural population, 26.6 per cent.

School attendance (Table 9).—The total number of persons of school age—that is, from 6 to 20 years, inclusive—is 1,313,809, of whom 868,578, or 66.1 per cent, attended school. In addition to these, 14,133 children under 6 and 15,377 persons 21 and over attended school. For boys from 6 to 20 years, inclusive, the percentage attending school was 66.3; for girls, 65.9. For children from 6 to 14 years, inclusive, the percentage attending school was 89.8. The percentage for children of this age among native whites of native parentage was 90.3; among native whites of foreign or mixed parentage, 89.2; among foreign-born whites, 84; and among negroes, 87.2. (See Table I.) There is little difference between urban and rural communities as regards the percentage of school attendance for the ages from 6 to 14, but for persons from 15 to 20 years, inclusive, 26 per cent were reported as attending school in urban communities as against 40.1 per cent in rural.

Illiteracy (Table 10).—There are 124,774 illiterates in the state, representing 3.2 per cent of the total population 10 years of age and over, as compared

with 4 per cent in 1900. The percentage of illiteracy is 11.5 among foreign-born whites, 11.1 among negroes, and 1.5 among native whites.

For all classes combined, the percentage of illiterates is about the same in urban communities as in rural, 3.3 and 3.2, respectively; but for each class separately the rural percentage somewhat exceeds the urban.

For persons from 10 to 20 years of age, inclusive, whose literacy depends largely upon present school facilities and school attendance, the percentage of illiteracy is very slight, 0.9. (See Table I.)

Marital condition (Tables 11 and 14).—In the population 15 years of age and over, 36.1 per cent of the males are single and 28.9 per cent of the females. The percentage married is 58.2 for males and 59.5 for females; and the percentage widowed 4.8 and 10.7, respectively. The percentages of those reported as divorced, 0.6 and 0.7, respectively, are believed to be too small, because of the probability that many divorced persons class themselves as single or widowed.

That the percentage single is smaller for women than for men is due largely to the fact that women marry younger. Thus 8.9 per cent of the females from 15 to 19 years of age are married, as compared with 0.7 per cent of the males, and 47.9 per cent of the females from 20 to 24 years are married, as compared with 23.4 per cent of the males. In the age group, 25 to 34 years, the difference in the percentages is not so great, and in the next age group it practically disappears, while among those 45 and over the percentage married is higher among the males. That there is a larger proportion of widows than of widowers may indicate that men more often remarry than women, but, since husbands are generally older than their wives, the marriage relationship is more often broken by death of the husband than by death of the wife.

For the main elements of the population the percentages of married persons among those 15 years of age and over are as follows: Native whites of native parentage, 57.4 for males and 59.1 for females; native whites of foreign or mixed parentage, 54.7 and 55.5, respectively; foreign-born whites, 65.5 and 67.9; negroes, 51.7 and 56.5.

These percentages by no means indicate the relative tendency of the several classes as regards marriage. To determine that, the comparison should be made by age periods, since the proportion married in any class is determined largely by the proportion who have reached the marrying age. Similarly, the proportion widowed depends largely on the proportion past middle life. The percentage married, both for males and for females, is somewhat higher in the rural than in the urban population.

Dwellings and families.—The total number of dwellings in Ohio is 1,024,800, and the total number of families 1,138,165, there being 111.1 families to each 100 dwellings. (See Table I.) The average number of persons per dwelling is 4.7, and the average number per family, 4.2.

TABLE 1.—COLOR, NATIVITY, AND PARENTAGE.

Table with columns for Class of Population and three columns for Year (1910, 1900, 1890) and three columns for Percent of Total (1910, 1900, 1890). Rows include categories like Total population, White, Negro, Indian, Chinese, Japanese, Total native, Total foreign born, etc.

¹ Less than one-tenth of 1 per cent.

TABLE 2.—SEX, FOR THE STATE.

[See also Tables 7 and 8.]

Table with columns for Class of Population and two columns for Year (1910, 1900) and two columns for Sex (Male, Female) and two columns for Males to 100 females. Rows include Total population, White, Negro, Indian, Chinese, and Japanese, etc.

¹ Ratio not shown, the number of females being less than 100.

TABLE 3.—NATIVE POPULATION, DISTINGUISHED AS BORN IN STATE OR OUTSIDE STATE.

Table with columns for Class of Population and columns for Year (1910, 1900, 1890), Urban: 1910, Rural: 1910. Rows include Total native population, Born in state, Born outside state, etc.

¹ Exclusive of 13 Indians, not distributed by state of birth.

² Includes persons born in the United States, state not specified; persons born in outlying possessions, or at sea under United States flag; and American citizens born abroad.

³ Includes native Indians and Chinese, but the numbers are small.

TABLE 4.—STATE OR DIVISION OF BIRTH.

Table with columns for Place of Birth and columns for Year (1910, 1900) and columns for Percent of Total (1910, 1900). Rows include Total native, Ohio, Other states, Pennsylvania, Kentucky, Indiana, New York, West Virginia, Michigan, Virginia, Illinois, Maryland, Missouri, Tennessee, Iowa, Massachusetts, New Jersey, All other, etc.

¹ Includes persons born in United States, state not specified; persons born in outlying possessions, or at sea under United States flag; and American citizens born abroad.

² Less than one-tenth of 1 per cent.

TABLE 5.—FOREIGN WHITE STOCK, BY NATIONALITY.

Table with columns for Foreign Country in which born or native and columns for White population of foreign birth or foreign parentage: 1910 (Total, Foreign born, Native) and Foreign-born white population: 1900. Rows include All countries, Austria, Belgium, Canada—French, etc.

¹ Includes native whites whose parents were born in different foreign countries; for example, one parent in Ireland and the other in Scotland.

TABLE 6.—MALES OF VOTING AND MILITIA AGES.

Table with columns for Class of Population and columns for Males of Voting Age (21 and over) and Males of Militia Age (18 to 44). Rows include Total, White, Negro, Indian, Chinese, and Japanese, Native white, etc.

¹ Less than one-tenth of 1 per cent.

TABLE 7.—AGE, FOR THE STATE.

[Per cent not shown where base is less than 100.]

Table with columns for Age Period, Total Population (1910, 1900, Male, Female), Native White (Male, Female), Foreign or mixed parentage (Male, Female), Foreign-born White (Male, Female), Negro (Male, Female), and Indian, Chinese, and Japanese (Male, Female). Rows include 'All ages, number' and 'All ages, per cent' for various age groups.

TABLE 8.—AGE, FOR URBAN AND RURAL POPULATION.

Table with columns for Age Period, Total (Male, Female), Native White (Male, Female), Foreign-born White (Male, Female), and Negro (Male, Female). Rows include 'All ages, number' and 'All ages, per cent' for various age groups, with data broken down by urban and rural population.

TABLE 9.—SCHOOL ATTENDANCE.

Table with columns for Age Period, Total (Number, Attending school), Native White (Native parentage, Foreign or mixed parentage), Foreign-born White, and Negro (Number, Attending school). Rows include 'THE STATE' (6 to 20 years inclusive, 6 to 14 years, 15 to 20 years) and 'URBAN POPULATION' (6 to 14 years, 15 to 20 years).

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TABLE 10.—ILLITERATE PERSONS 10 YEARS OF AGE AND OVER.

CLASS OF POPULATION.	BOTH SEXES.		MALE.		FEMALE.		CLASS OF POPULATION.	BOTH SEXES.		MALE.		FEMALE.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.		Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
THE STATE.						URBAN POPULATION.							
Total illiterate, 1910.....	124,774	3.2	68,385	3.5	56,389	3.0	Total illiterate, 1910.....	71,811	3.3	37,750	3.4	34,061	3.1
Native white.....	47,310	1.5	24,686	1.6	22,624	1.4	Native white.....	12,689	0.8	5,602	0.7	7,087	0.8
Native parentage.....	39,807	1.7	21,013	1.8	18,794	1.6	Native parentage.....	9,581	0.9	4,323	0.8	5,258	1.0
Foreign or mixed parentage.....	7,503	0.9	3,673	0.9	3,830	0.9	Foreign or mixed parentage.....	3,108	0.5	1,279	0.5	1,829	0.6
Foreign-born white.....	66,887	11.5	38,220	11.3	28,667	11.8	Foreign-born white.....	51,957	11.3	28,652	10.8	23,305	11.8
Negro.....	10,460	11.1	5,370	10.9	5,090	11.4	Negro.....	7,053	10.0	3,391	9.3	3,662	10.6
Total illiterate, 1900.....	131,541	4.0	63,404	3.8	68,137	4.2	RURAL POPULATION.						
Native white.....	67,155	2.4	33,474	2.4	33,681	2.4	Total illiterate, 1910.....	52,963	3.2	30,635	3.5	22,328	2.8
Native parentage.....	56,416	2.8	28,384	2.8	28,032	2.8	Native white.....	34,621	3.2	19,084	2.4	15,537	2.1
Foreign or mixed parentage.....	10,739	1.4	5,090	1.4	5,649	1.5	Native parentage.....	30,226	2.3	16,690	2.5	13,536	2.2
Foreign-born white.....	50,155	11.1	22,685	9.3	27,470	13.2	Foreign or mixed parentage.....	4,395	1.9	2,394	2.0	2,001	1.8
Negro.....	14,107	17.8	7,124	17.3	6,983	18.4	Foreign-born white.....	14,930	12.7	9,568	13.1	5,362	12.0
							Negro.....	3,407	14.8	1,979	15.4	1,428	14.0

TABLE 11.—MARITAL CONDITION OF PERSONS 15 YEARS OF AGE AND OVER.

CLASS OF POPULATION AND AGE PERIOD.	MALES 15 YEARS OF AGE AND OVER.						FEMALES 15 YEARS OF AGE AND OVER.							
	Total. ¹	Single.		Married.		Wid-owed.	Di-voiced.	Total. ¹	Single.		Married.		Wid-owed.	Di-voiced.
		Number.	Per cent.	Number.	Per cent.				Number.	Per cent.	Number.	Per cent.		
THE STATE.														
Total, 1910.....	1,755,663	634,137	36.1	1,022,124	58.2	83,738	10,594	1,667,482	481,784	28.9	991,870	59.5	178,798	12,386
Total, 1900.....	1,454,446	556,436	38.3	820,084	56.4	67,867	5,787	1,420,628	442,002	31.1	813,106	57.2	156,169	7,718
15 to 19 years.....	225,299	222,938	99.0	1,688	0.7	19	14	221,613	201,077	90.7	19,669	8.9	143	105
20 to 24 years.....	230,390	174,988	76.0	53,890	23.4	553	302	223,136	113,363	50.8	106,963	47.9	1,432	1,005
25 to 34 years.....	415,699	185,883	44.7	271,999	65.4	4,822	2,200	388,906	84,541	21.7	291,979	75.1	8,520	3,545
35 to 44 years.....	338,345	52,525	15.5	273,037	80.7	9,420	2,899	312,519	39,678	12.7	250,526	80.2	18,695	3,459
45 years and over.....	541,467	46,517	8.6	420,475	77.7	68,721	5,147	519,468	42,531	8.2	322,105	62.0	149,707	4,252
Age unknown.....	4,463	1,286	28.8	1,035	23.2	203	32	1,840	594	32.3	628	34.1	301	20
Native white:														
Native parentage ²	1,026,164	379,346	37.0	588,845	57.4	47,683	6,921	1,016,202	307,598	30.3	600,780	59.1	97,584	8,274
15 to 24 years.....	297,044	257,587	86.7	37,912	12.8	408	245	299,865	212,382	70.8	84,891	28.3	1,039	832
25 to 44 years.....	418,305	96,389	23.0	309,599	74.0	8,370	3,311	413,227	70,031	16.9	323,909	78.4	14,325	4,666
45 years and over.....	307,728	24,566	8.0	240,679	78.2	38,787	3,342	301,854	24,742	8.2	191,590	63.5	82,044	2,762
Foreign or mixed parentage ²	354,009	145,585	41.1	193,578	54.7	12,467	1,971	376,287	132,806	35.3	208,993	55.5	31,623	2,487
15 to 24 years.....	95,532	87,114	91.2	8,128	8.5	73	34	99,249	78,209	78.8	20,489	20.6	220	153
25 to 44 years.....	158,109	47,218	29.9	106,945	67.6	2,785	1,035	172,172	42,075	24.4	121,539	70.6	6,956	1,478
45 years and over.....	100,115	11,170	11.2	78,400	78.3	9,584	897	104,650	12,425	11.9	66,886	63.9	24,421	853
Foreign-born white ²	329,952	91,065	27.6	216,239	65.5	20,412	1,144	234,833	30,763	13.1	159,425	67.9	43,448	1,061
15 to 24 years.....	52,480	44,135	84.1	8,082	15.4	58	18	34,495	16,627	48.2	17,612	51.1	149	50
25 to 44 years.....	155,820	37,523	24.1	115,204	73.9	2,241	416	97,488	9,301	9.5	83,546	85.7	4,087	513
45 years and over.....	120,785	9,070	7.5	92,776	76.8	18,086	708	102,709	4,802	4.7	58,183	56.6	39,152	498
Negro ²	44,894	17,774	39.6	23,210	51.7	3,162	558	40,052	10,596	26.5	22,641	56.5	6,138	564
15 to 24 years.....	10,535	9,000	85.4	1,448	13.7	33	19	11,121	7,208	64.8	3,636	32.7	167	75
25 to 44 years.....	21,455	7,066	32.9	13,157	61.3	842	337	18,511	2,806	15.2	13,490	72.9	1,847	347
45 years and over.....	12,652	1,649	13.0	8,508	67.2	2,274	200	10,243	561	5.5	5,440	53.1	4,085	139
URBAN POPULATION.														
Total.....	997,489	373,645	37.5	574,240	57.6	40,918	5,954	972,705	299,345	30.8	552,178	56.8	111,309	8,472
15 to 24 years.....	263,848	229,145	86.8	33,418	12.7	353	196	266,056	189,359	71.2	74,209	27.9	1,063	785
25 to 44 years.....	465,795	121,782	26.1	331,356	71.1	8,657	3,332	431,417	85,813	19.9	319,734	74.1	20,398	5,144
45 years and over.....	265,416	21,990	8.3	208,959	78.7	31,811	2,411	274,043	23,763	8.7	157,870	57.6	89,667	2,631
Age unknown.....	2,430	728	30.0	513	21.1	97	15	1,189	410	34.5	356	29.9	181	12
Native white—Native parentage.....	462,024	179,398	38.8	259,810	56.2	17,750	3,352	476,188	157,883	33.2	263,585	55.4	48,782	5,082
Native white—Foreign or mixed par.....	242,778	108,322	44.6	125,676	51.8	7,131	1,365	273,778	105,882	38.7	142,671	52.1	22,921	1,999
Foreign-born white.....	258,445	72,387	28.0	170,812	66.1	13,851	820	191,302	27,280	14.3	128,399	67.1	34,569	907
Negro.....	33,635	13,192	39.2	17,701	52.6	2,176	417	31,387	8,282	26.4	17,495	55.7	5,033	484
RURAL POPULATION.														
Total.....	758,174	260,492	34.4	447,884	59.1	42,820	4,640	694,777	182,439	26.3	439,692	63.3	67,489	3,914
15 to 24 years.....	191,841	168,781	88.0	22,160	11.6	219	120	178,693	125,081	70.0	52,423	29.3	512	325
25 to 44 years.....	288,249	66,626	23.1	213,686	74.1	5,585	1,767	270,008	38,406	14.2	222,771	82.5	6,817	1,860
45 years and over.....	276,051	24,527	8.9	211,516	76.6	36,910	2,736	245,425	18,768	7.6	164,226	66.9	60,040	1,721
Age unknown.....	2,033	558	27.4	522	25.7	106	17	651	184	28.3	272	41.8	120	8
Native white—Native parentage.....	564,140	199,948	35.4	329,035	58.3	29,933	3,569	540,014	149,715	27.7	337,195	62.4	48,802	3,192
Native white—Foreign or mixed par.....	111,231	37,263	33.5	67,902	61.0	5,336	606	102,509	26,924	26.3	66,322	64.7	8,702	488
Foreign-born white.....	71,507	18,678	26.1	45,427	63.5	6,561	324	43,581	3,483	8.0	31,026	71.2	8,879	154
Negro.....	41,259	4,582	11.1	5,509	13.3	986	141	8,665	2,314	26.7	5,146	59.4	1,105	80

¹ Total includes persons whose marital condition is unknown.

² Totals include persons of unknown age.

TABLE 12.—FOREIGN WHITE STOCK, BY NATIONALITY, FOR CITIES OF 100,000 OR MORE.

FOREIGN COUNTRY IN WHICH BORN, OR, IF NATIVE, IN WHICH PARENTS WERE BORN.	WHITE POPULATION OF FOREIGN BIRTH OR FOREIGN PARENTAGE: 1910						Foreign-born white population: 1900	FOREIGN COUNTRY IN WHICH BORN, OR, IF NATIVE, IN WHICH PARENTS WERE BORN.	WHITE POPULATION OF FOREIGN BIRTH OR FOREIGN PARENTAGE: 1910						Foreign-born white population: 1900
	Total.		Foreign born.		Native.				Total.		Foreign born.		Native.		
	Number.	Per cent.	Number.	Per cent.	Both parents foreign born.	One parent foreign born.			Number.	Per cent.	Number.	Per cent.	Both parents foreign born.	One parent foreign born.	
CINCINNATI.															
All countries.....	188,982	100.0	56,792	100.0	88,894	43,296	57,887		25,117	13.3	6,223	11.0	12,985	5,909	9,111
Austria.....	2,714	1.4	1,638	2.9	685	391	752	Ireland.....	3,924	2.1	2,245	4.0	1,383	296	917
Canada—French.....	214	0.1	73	0.1	27	114	100	Italy.....	604	0.3	454	0.8	144	6	4
Canada—Other.....	2,063	1.1	868	1.5	157	1,038	899	Roumania.....	8,176	4.3	4,999	8.8	2,856	321	2,320
Denmark.....	168	0.1	79	0.1	31	58	49	Scotland.....	1,405	0.7	468	0.8	313	634	461
England.....	6,433	3.4	1,872	3.3	1,536	3,025	2,200	Sweden.....	196	0.1	114	0.2	43	39	111
France.....	2,397	1.3	665	1.2	676	1,056	748	Switzerland.....	1,635	0.9	696	1.2	380	559	656
Germany.....	117,370	62.1	28,425	50.1	59,986	28,959	38,304	Turkey in Asia.....	298	0.2	245	0.4	46	7	6
Greece.....	219	0.1	180	0.3	13	26	53	Turkey in Europe.....	284	0.2	280	0.5	4	6	6
Holland.....	976	0.5	322	0.6	343	311	359	Wales.....	691	0.4	177	0.3	263	251	246
Hungary.....	7,352	3.9	6,344	11.2	941	67	208	All other.....	1,746	3.6	435	0.8	1,682	229	379
CLEVELAND.															
All countries.....	419,611	100.0	195,703	100.0	171,567	52,341	124,354	Ireland.....	36,087	8.6	11,316	5.8	17,616	7,155	13,119
Austria.....	77,388	18.4	42,059	21.5	31,274	4,055	18,981	Italy.....	16,989	4.0	10,836	5.5	5,799	354	3,065
Canada—French.....	1,447	0.3	571	0.3	1,394	482	759	Norway.....	823	0.2	512	0.3	221	90	248
Canada—Other.....	16,488	3.9	8,536	4.4	2,152	5,800	7,714	Roumania.....	957	0.2	761	0.4	184	12	39
Denmark.....	835	0.2	448	0.2	233	154	373	Russia.....	39,321	9.4	25,477	13.0	12,783	1,061	7,728
England.....	26,274	6.3	11,415	5.8	7,142	7,147	10,617	Scotland.....	6,106	1.5	2,879	1.5	1,549	1,678	2,178
Finland.....	697	0.2	499	0.3	179	19	79	Sweden.....	2,951	0.7	1,657	0.8	1,045	249	999
France.....	1,515	0.4	493	0.3	436	586	482	Switzerland.....	3,225	0.8	1,373	0.7	1,039	813	1,288
Germany.....	120,008	28.6	41,406	21.2	59,061	19,541	44,222	Turkey in Asia.....	612	0.1	497	0.3	98	17	41
Greece.....	318	0.1	275	0.1	20	23	42	Turkey in Europe.....	269	0.1	251	0.1	17	1	1
Holland.....	2,416	0.6	1,076	0.5	852	488	804	Wales.....	3,441	0.8	1,297	0.7	1,198	946	1,490
Hungary.....	45,799	10.9	31,503	16.1	13,434	862	9,558	All other.....	15,645	3.7	566	0.3	14,841	238	530
COLUMBUS.															
All countries.....	51,863	100.0	16,285	100.0	21,768	13,810	12,292	Ireland.....	8,603	16.6	1,809	11.1	4,140	2,654	2,078
Austria.....	1,164	2.2	818	5.0	241	105	157	Italy.....	2,510	4.9	1,619	9.9	788	109	349
Belgium.....	126	0.2	100	0.6	17	9	5	Norway.....	2,284	4.4	1,528	9.4	702	54	336
Canada—French.....	309	0.6	79	0.5	110	120	60	Russia.....	2,884	5.6	1,774	10.9	1,110	83	172
Canada—Other.....	1,348	2.6	585	3.6	136	627	420	Scotland.....	186	0.4	104	0.6	44	38	72
Denmark.....	91	0.2	40	0.2	10	41	29	Sweden.....	938	1.8	339	2.1	232	367	343
England.....	3,781	7.3	1,126	6.9	881	1,774	1,054	Switzerland.....	86	0.2	71	0.4	12	3	7
France.....	586	1.1	150	0.9	154	282	132	Turkey in Asia.....	63	0.1	60	0.4	2	1	1
Germany.....	23,146	44.6	5,722	35.1	11,110	6,314	6,306	Turkey in Europe.....	2,186	4.2	534	3.3	892	760	595
Greece.....	131	0.3	123	0.8	5	3	14	Wales.....	1,214	4.1	170	1.0	1,864	90	100
Holland.....	104	0.2	40	0.2	22	42	15	All other.....							
Hungary.....	1,149	2.2	970	6.0	161	18	34								
DAYTON.															
All countries.....	39,406	100.0	13,847	100.0	16,762	8,797	10,024	Ireland.....	4,404	11.2	974	7.0	2,301	1,129	1,252
Austria.....	899	2.3	660	4.8	193	46	88	Italy.....	537	1.4	356	2.6	166	15	115
Belgium.....	86	0.2	27	0.2	17	42	35	Norway.....	2,284	5.8	1,526	11.0	706	64	341
Canada—French.....	823	2.1	365	2.6	77	381	325	Roumania.....	417	1.1	140	1.0	93	184	125
Canada—Other.....	1,707	4.3	461	3.3	368	878	432	Scotland.....	88	0.2	42	0.3	30	16	31
Denmark.....	403	1.0	93	0.7	137	173	116	Sweden.....	280	0.7	118	0.9	55	107	104
England.....	22,518	57.1	5,816	42.0	11,118	5,584	6,835	Switzerland.....	50	0.1	45	0.3	2	3	1
France.....	143	0.4	117	0.8	10	16	5	Turkey in Asia.....	170	0.4	170	1.2	36	65	25
Germany.....	96	0.2	37	0.3	32	27	9	Turkey in Europe.....	119	0.3	18	0.1	36	53	83
Greece.....	131	0.3	123	0.8	5	3	14	Wales.....	1,192	3.0	121	0.9	1,018	53	83
Holland.....	104	0.2	40	0.2	22	42	15	All other.....							
Hungary.....	1,149	2.2	970	6.0	161	18	34								
TOLEDO.															
All countries.....	91,420	100.0	32,037	100.0	40,845	18,538	27,729	Ireland.....	8,214	9.0	1,971	6.2	4,074	2,169	2,684
Austria.....	1,383	1.5	879	2.7	415	89	342	Italy.....	493	0.5	270	0.8	174	49	79
Belgium.....	138	0.2	85	0.3	33	20	49	Norway.....	140	0.2	65	0.2	43	32	45
Canada—French.....	2,193	2.4	681	2.1	649	863	535	Roumania.....	111	0.1	83	0.3	24	4	4
Canada—Other.....	5,466	6.0	2,435	7.6	718	2,313	2,395	Russia.....	5,538	6.1	3,340	10.4	1,924	274	1,044
Denmark.....	280	0.3	118	0.4	81	81	97	Scotland.....	913	1.0	328	1.0	204	381	256
England.....	4,969	5.4	1,662	5.2	1,275	2,032	1,635	Sweden.....	294	0.3	140	0.4	60	94	112
France.....	863	0.9	245	0.8	257	301	248	Switzerland.....	1,929	2.1	744	2.3	602	583	698
Germany.....	49,940	54.6	15,308	47.8	25,718	8,914	16,194	Turkey in Asia.....	262	0.3	176	0.5	83	3	11
Greece.....	107	0.1	81	0.3	13	13	20	Turkey in Europe.....	113	0.1	67	0.2	46	6	6
Holland.....	206	0.2	55	0.2	58	93	51	Wales.....	207	0.2	61	0.2	81	65	73
Hungary.....	4,060	4.4	2,927	9.1	1,096	37	647	All other.....	13,601	3.9	316	1.0	13,217	68	214

¹ Includes native whites whose parents were born in different foreign countries; for example, one parent in Ireland and the other in Scotland.

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TABLE 14.—MARITAL CONDITION, FOR CITIES OF 25,000 OR MORE—Continued.

CLASS OF POPULATION AND AGE PERIOD.	MALES 15 YEARS OF AGE AND OVER.						FEMALES 15 YEARS OF AGE AND OVER.							
	Total. ¹	Single.		Married.		Widowed.	Divorced.	Total. ¹	Single.		Married.		Widowed.	Divorced.
		Number.	Per cent.	Number.	Per cent.				Number.	Per cent.	Number.	Per cent.		
Newark														
Total.....	9,816	3,514	35.8	5,813	59.2	418	61	9,340	2,603	27.9	5,480	58.5	1,162	109
15 to 24 years.....	2,514	2,191	87.2	316	12.6	4	1	2,384	1,660	69.6	692	29.0	9	21
25 to 44 years.....	4,617	1,125	24.4	3,335	72.2	120	34	4,085	707	17.3	3,124	76.5	186	64
45 years and over.....	2,667	188	7.0	2,157	80.9	204	26	2,864	235	8.2	1,640	57.3	965	24
Age unknown.....	18	10		5				7	1		4		2	
Native white—Native parentage.....	6,808	2,518	37.0	3,970	58.3	263	48	6,924	1,961	28.3	4,083	59.0	793	84
Native white—Foreign or mixed parentage.....	1,520	530	34.9	912	60.0	70	8	1,653	533	32.2	910	55.1	193	15
Foreign-born white.....	1,340	399	29.8	862	64.3	76	3	631	61	9.7	406	64.3	158	5
Negro.....	141	62	44.0	67	47.5	9	2	132	48	36.4	61	46.2	18	5
Springfield														
Total.....	18,029	6,502	36.1	10,242	56.8	908	93	17,401	5,040	29.0	10,160	58.4	1,981	120
15 to 24 years.....	4,620	3,925	85.0	595	12.9	7	2	4,640	3,215	69.3	1,344	29.0	24	9
25 to 44 years.....	7,719	2,014	26.1	5,381	69.7	182	55	7,292	1,396	19.1	5,486	75.2	306	67
45 years and over.....	5,499	496	9.0	4,235	77.0	711	35	5,434	424	7.8	3,312	60.9	1,045	44
Age unknown.....	191	67	35.1	31	16.2	8	1	35	5		18		6	
Native white—Native parentage.....	11,059	3,953	35.7	6,353	57.4	484	63	10,711	3,147	29.4	6,343	59.2	1,069	88
Native white—Foreign or mixed parentage.....	3,223	1,426	44.2	1,636	50.7	138	9	3,564	1,356	38.0	1,865	52.3	304	12
Foreign-born white.....	1,730	404	23.4	1,121	64.8	153	3	1,371	139	10.1	843	61.5	387	1
Negro.....	2,001	713	35.6	1,127	56.3	133	18	1,755	398	22.7	1,109	63.2	221	19
Toledo														
Total.....	62,129	22,568	36.3	36,345	58.5	2,764	394	61,463	18,936	30.8	35,569	57.9	6,425	482
15 to 24 years.....	16,155	14,127	87.4	1,980	12.3	24	8	16,992	12,502	73.6	4,381	25.8	57	34
25 to 44 years.....	28,641	7,045	24.6	20,776	72.5	565	231	27,902	5,325	19.1	21,013	75.3	1,238	313
45 years and over.....	17,291	1,385	8.0	13,573	78.5	2,171	154	16,551	1,101	6.7	10,169	61.4	5,126	135
Age unknown.....	42	11		16		4	1	18	7		6		4	
Native white—Native parentage.....	25,542	9,805	38.4	14,440	56.5	1,038	235	26,063	8,628	33.1	14,539	55.8	2,603	270
Native white—Foreign or mixed parentage.....	19,028	8,822	46.4	9,589	50.4	86	36	20,870	8,286	39.7	11,076	53.1	1,373	123
Foreign-born white.....	16,726	3,611	21.6	11,887	71.1	1,146	58	13,770	1,809	13.1	9,519	69.1	2,349	78
Negro.....	790	306	38.7	412	52.2	56	15	756	212	28.0	432	57.1	100	11
Youngstown														
Total.....	32,672	13,334	40.8	18,063	55.3	948	95	24,443	7,073	28.9	15,007	61.4	2,175	123
15 to 24 years.....	9,163	7,917	86.4	1,178	12.9	4	4	7,466	4,881	65.4	2,497	33.4	40	12
25 to 44 years.....	17,499	5,024	28.7	12,086	69.1	271	56	11,758	1,884	16.0	9,263	78.8	518	79
45 years and over.....	5,870	374	6.4	4,782	81.5	670	35	5,191	301	5.8	3,233	62.3	1,616	32
Age unknown.....	140	19	13.6	17	12.1	3		28	7		14		1	
Native white—Native parentage.....	9,133	3,725	40.8	4,952	54.2	296	52	7,910	2,510	31.7	4,598	58.1	721	58
Native white—Foreign or mixed parentage.....	7,394	4,050	54.8	3,146	42.5	144	19	7,785	3,369	43.3	3,948	50.7	406	37
Foreign-born white.....	15,264	5,188	34.0	9,511	62.3	464	20	8,106	1,054	13.0	6,045	74.6	971	21
Negro.....	862	362	42.0	445	51.6	44	4	641	140	21.8	415	64.7	77	7
Zanesville														
Total.....	10,197	3,621	35.5	6,048	59.3	435	61	11,060	3,480	31.5	6,094	55.1	1,334	123
15 to 24 years.....	2,576	2,186	84.9	363	14.1	5	2	2,757	2,003	72.7	717	26.0	13	7
25 to 44 years.....	4,527	1,152	25.4	3,252	71.8	80	36	4,763	1,035	21.7	3,407	71.5	231	84
45 years and over.....	3,075	275	8.9	2,426	78.9	349	23	3,525	438	12.4	1,906	55.8	1,086	32
Age unknown.....	19	8		7		1		15	4		4		4	
Native white—Native parentage.....	7,238	2,658	36.7	4,229	58.4	279	41	7,952	2,614	32.9	4,387	55.2	832	98
Native white—Foreign or mixed parentage.....	1,554	434	31.1	987	63.5	70	12	1,920	613	31.9	1,049	54.6	233	22
Foreign-born white.....	905	280	30.9	554	61.2	67	4	651	91	14.0	373	57.3	184	3
Negro.....	494	195	39.5	277	56.1	18	4	533	160	30.0	284	53.3	84	6

¹Total includes persons whose marital condition is unknown.

TABLE 15.—SEX, FOR CITIES OF 25,000 OR MORE.

[See also Table 13.]

CITY.	1910			1900			CITY.	1910			1900		
	Male.	Female.	Males to 100 females.	Male.	Female.	Males to 100 females.		Male.	Female.	Males to 100 females.	Male.	Female.	Males to 100 females.
Akron.....	36,604	32,463	112.8	21,383	21,345	100.2	Lima.....	15,213	15,295	99.5	10,873	10,850	100.2
Canton.....	26,110	24,107	108.3	15,094	15,573	96.9	Lorain.....	16,261	12,622	128.8	9,119	6,909	132.0
Cincinnati.....	177,511	186,080	95.4	157,140	168,702	93.1	Newark.....	12,988	12,416	104.6	9,048	9,109	99.3
Cleveland.....	289,262	271,401	106.6	192,016	189,152	101.8	Springfield.....	23,838	23,083	103.3	19,306	18,947	101.9
Columbus.....	91,452	90,059	101.5	63,301	62,259	101.7	Toledo.....	84,691	83,806	101.1	65,604	66,218	99.1
Dayton.....	53,848	57,729	101.9	42,142	43,191	97.6	Youngstown.....	43,649	35,417	123.2	23,582	21,303	110.7
Hamilton.....	17,825	17,454	102.1	12,031	11,883	101.2	Zanesville.....	13,550	14,476	93.6	11,310	12,228	92.5

TABLE 16.—INDIAN, CHINESE, AND JAPANESE POPULATION FOR PRINCIPAL COUNTIES.

COUNTY.	INDIAN.			CHINESE.			JAPANESE.			COUNTY.	INDIAN.			CHINESE.			JAPANESE.		
	1910	1900	1890	1910	1900	1890	1910	1900	1890		1910	1900	1890	1910	1900	1890	1910	1900	1890
The state.....	127	42	1,206	569	371	183	76	27	22	Mahoning.....	4			18	10	1			
Belmont.....			1	4	12	3				Montgomery.....			9	26	23	1			
Clark.....	1		2	10	3	3	2			Muskingum.....	13		6	2	1	2			
Columbiana.....				12	12	9	1			Paulding.....			4	18					
Cuyahoga.....	48	2	5	236	108	36	25	11	6	Stark.....					9	5		1	
Franklin.....	13	11	14	48	8	6	8	5	2	Summit.....				12	3	1			1
Hamilton.....	11	2	14	17	15	24	7	3	1	Tuscarawas.....	3		1	10	4	3			
Highland.....	12		22	1	1	1				Washington.....			3	4	3				
Lorain.....		2	8	9	8	9	12			Washington.....			18	3	4	2			
Lucas.....	1	5	3	51	31	8	1			Remainder of state.....	21	11	72	98	119	69	15	7	10

¹Includes 13 Indians specially enumerated in 1890, not distributed by counties.

TABLE I.—COMPOSITION AND CHARACTERISTICS OF THE

[Per cent not shown where base is less than 100.]

SUBJECT.	THE STATE.	Adams.	Allen.	Ashland.	Ash-tula.	Athens.	Auglaize.	Belmont.	Brown.	Butler.	Carroll.
POPULATION											
Total population, 1910.....	4,787,121	24,755	56,580	22,975	59,547	47,798	31,246	76,856	24,832	70,271	15,761
1900.....	4,157,545	26,328	47,976	21,184	51,448	38,730	31,192	60,875	28,237	56,870	16,811
1890.....	3,672,329	26,093	40,644	22,223	43,655	35,194	28,100	57,413	29,899	48,597	17,566
1880.....	3,198,062	24,005	31,314	23,883	37,139	28,411	25,444	49,638	32,911	42,579	16,416
1870.....	2,665,260	20,750	23,623	21,933	32,517	23,768	20,041	39,714	30,802	39,912	14,491
Increase, 1900-1910.....	609,576	-1,573	8,604	1,791	8,099	9,068	54	15,981	-3,405	13,401	-1,050
Per cent of increase.....	14.7	-6.0	17.9	8.5	15.7	23.4	0.2	26.3	-12.1	23.6	-6.2
Increase, 1890-1900.....	485,216	235	7,332	-1,039	7,793	3,536	3,092	3,462	-1,662	8,273	-755
Per cent of increase.....	13.2	0.9	18.0	-4.7	17.9	10.0	11.0	6.0	-5.6	17.0	-4.3
Land area (square miles).....	40,740	546	406	421	723	487	397	530	481	452	387
Population per square mile, 1910.....	117.0	45.3	139.4	54.6	82.4	98.1	78.7	145.0	51.6	155.5	40.7
Rural population per square mile, 1910.....	51.6	45.3	57.9	38.4	45.6	69.3	50.8	87.9	51.6	48.3	40.7
URBAN AND RURAL TERRITORY.											
Urban, 1910—Places of 2,500 or more in 1910.....	2,665,143	.....	33,064	6,795	26,585	14,072	11,081	30,286	.....	48,431	.....
Same places in 1900.....	2,027,462	.....	24,012	4,087	20,082	10,642	9,274	25,356	.....	33,129	.....
Per cent of increase, 1900-1910.....	31.5	.....	37.7	66.3	32.4	19.4	19.5	19.4	.....	45.2	.....
Rural, 1910—Remainder of county in 1910.....	2,101,978	.....	23,516	16,180	32,962	33,726	20,165	46,570	24,832	21,840	15,761
Same territory in 1900.....	2,130,083	.....	26,328	17,097	31,366	28,088	21,918	35,519	28,237	23,741	16,811
Per cent of increase, 1900-1910.....	-1.3	.....	-1.9	-5.4	5.1	20.1	-8.0	31.1	-12.1	-3.0	-6.2
Urban, 1900—Places of 2,500 or more in 1900.....	1,998,382	.....	24,012	4,087	20,082	8,487	9,274	25,356	.....	33,129	.....
Rural, 1900—Remainder of county in 1900.....	2,159,163	.....	26,328	17,097	31,366	30,243	21,918	35,519	28,237	23,741	16,811
Per cent in places of 2,500 or more, 1910.....	55.9	.....	58.4	29.6	44.6	29.4	35.5	39.4	.....	68.9	.....
Per cent in places of 2,500 or more, 1900.....	48.1	.....	50.1	19.3	39.0	21.9	29.7	41.7	.....	58.3	.....
COLOR AND NATIVITY											
White.....	4,654,897	24,570	55,544	22,950	59,323	46,552	31,209	75,070	23,544	68,479	15,736
Number in 1900.....	4,060,204	26,051	47,126	21,170	51,204	37,398	31,167	69,006	26,662	55,633	16,779
Number in 1890.....	3,584,805	25,687	40,049	22,802	43,365	33,958	28,054	55,477	27,063	47,476	17,492
Negro.....	111,452	184	1,030	25	217	1,240	36	1,782	1,288	1,781	25
Number in 1900.....	96,901	277	842	13	239	1,329	24	1,867	1,676	1,183	32
Number in 1890.....	87,113	406	569	21	287	1,253	46	1,932	1,955	1,113	74
Black.....	72,203	166	787	20	195	603	20	1,352	1,071	1,004	25
Mulatto.....	39,249	18	243	5	22	637	16	430	217	777	.....
Ind., Chi., and Jap. (see Tables I and 16).....	772	1	6	.....	7	6	1	4	.....	11	.....
Native white—Native parentage.....	3,033,259	23,743	45,487	20,408	38,890	39,641	23,868	50,923	20,908	47,051	13,111
Number in 1900.....	2,651,440	24,798	36,592	18,389	35,472	31,598	22,329	45,140	22,690	34,595	15,920
Native white—Foreign or mixed parentage.....	1,024,393	704	7,662	1,920	11,984	4,375	6,076	12,572	2,660	15,650	1,822
Number in 1900.....	950,864	1,027	7,980	2,174	8,961	3,960	6,999	9,275	3,049	15,606	2,143
Native white—Foreign parentage.....	671,275	309	4,069	921	8,201	2,609	3,508	8,327	1,278	9,965	932
Native white—Mixed parentage.....	353,118	395	3,593	999	3,783	1,766	2,568	4,245	888	5,685	890
Foreign-born white.....	597,245	123	2,395	622	8,449	2,536	1,265	11,575	470	5,778	803
Number in 1900.....	457,900	226	2,554	607	6,771	1,840	1,839	4,591	823	5,488	717
PER CENT OF TOTAL POPULATION.											
Native white—Native parentage.....	63.6	95.9	80.4	88.8	65.3	82.9	76.4	66.3	84.2	67.0	83.2
Per cent in 1900.....	69.8	94.2	76.3	86.8	68.9	81.6	71.6	74.2	80.4	60.8	82.8
Native white—Foreign or mixed parentage.....	21.5	2.8	13.5	8.4	20.1	9.2	19.4	16.4	8.7	22.3	11.6
Per cent in 1900.....	22.9	3.9	16.6	10.8	17.4	10.2	22.4	15.2	10.8	27.4	12.7
Foreign-born white.....	12.5	0.5	4.2	2.7	14.2	5.3	4.0	15.1	1.9	8.2	5.1
Per cent in 1900.....	11.0	0.9	5.3	2.9	13.2	4.8	5.9	7.5	2.9	9.6	4.3
Negro.....	2.3	0.7	1.8	0.1	0.4	2.6	0.1	2.3	5.2	2.5	0.2
Per cent in 1900.....	2.3	1.1	1.8	0.1	0.5	3.4	0.1	3.1	5.9	2.1	0.2
FOREIGN NATIONALITIES											
FOREIGN-BORN WHITE: Born in—											
Austria.....	72,887	.....	62	33	453	184	11	3,143	11	175	76
Belgium.....	1,525	.....	.....	.....	4	6	1	118	14	2	8
Canada—French.....	2,310	.....	1	.....	37	6	3	15	1	8	2
Canada—Other.....	20,881	.....	16	4	26	6	3	63	5	99	4
Denmark.....	1,437	.....	1	.....	17	1	.....	8	.....	4	.....
England.....	43,335	.....	17	1	721	535	35	768	27	232	122
Finland.....	3,988	.....	.....	.....	2,039	102	.....	1	.....	3	.....
France.....	4,836	.....	24	8	22	18	10	162	65	81	3
Germany.....	175,091	58	863	231	443	395	1,028	1,275	257	3,334	102
Greece.....	2,555	.....	14	.....	12	29	1	53	.....	127	.....
Holland.....	2,278	.....	8	.....	24	6	9	2	2	14	.....
Hungary.....	85,881	.....	9	74	434	594	1	2,037	1	422	75
Ireland.....	40,057	.....	398	26	441	132	36	405	55	448	43
Italy.....	41,620	.....	164	35	1,530	51	26	1,166	2	345	163
Roumania.....	3,974	.....	1	.....	82	3	1	136	.....	.....	24
Russia.....	48,756	.....	53	11	310	131	13	1,114	8	144	6
Scotland.....	10,704	.....	5	37	34	157	100	3	168	8	105
Sweden.....	5,522	.....	18	3	876	14	1	35	.....	21	1
Switzerland.....	10,988	.....	211	48	61	6	48	66	7	123	15
Turkey in Asia.....	2,031	.....	1	.....	22	2	.....	17	2	5	.....
Turkey in Europe.....	1,945	.....	3	.....	18	5	3	77	.....	20	.....
Wales.....	9,376	.....	171	2	16	137	2	589	.....	22	83
Other foreign countries.....	4,868	.....	24	1	169	31	17	157	5	38	1
NATIVE WHITE: Both parents born in—											
Austria.....	46,361	.....	19	7	290	152	1	1,684	30	43	32
Canada—French.....	1,818	.....	10	.....	17	.....	.....	12	.....	7	.....
Canada—Other.....	5,328	.....	38	2	187	3	3	17	2	21	4
England.....	33,804	.....	60	720	502	22	573	29	255	96	.....
France.....	6,101	.....	48	11	34	6	15	63	117	108	14
Germany.....	327,758	166	1,857	592	844	605	3,106	2,095	796	7,055	241
Holland.....	1,950	.....	3	1	24	.....	.....	14	1	19	.....
Hungary.....	28,698	.....	1	12	373	294	.....	649	3	71	14
Ireland.....	79,567	83	941	70	896	321	159	926	185	1,342	169
Italy.....	18,895	.....	49	3	1,103	30	5	407	.....	92	74
Russia.....	24,837	.....	27	6	222	98	8	422	2	104	6
Scotland.....	7,851	.....	4	26	55	130	.....	86	2	83	55
Sweden.....	4,075	.....	15	6	905	12	1	21	1	13	.....
Switzerland.....	11,042	.....	323	35	54	9	45	66	7	88	28
Wales.....	12,224	.....	264	2	13	174	5	456	2	33	98
All others of foreign parentage.....	60,876	26	354	58	2,389	312	120	849	102	631	101

¹ State total includes population (13) specially enumerated in 1890, not distributed by counties.

STATISTICS OF POPULATION.

POPULATION FOR THE STATE AND FOR COUNTIES.

A minus sign (-) denotes decrease.]

SUBJECT.	THE STATE.	Adams.	Allen.	Ashtland.	Ashtabula.	Athens.	Auglaize.	Belmont.	Brown.	Butler.	Carroll.
SEX											
Total Male	2,434,758	12,728	28,542	11,447	30,386	24,725	15,910	40,209	12,514	35,911	8,048
Female	2,332,363	12,027	28,038	11,528	29,161	23,073	15,336	36,647	12,318	34,360	7,713
White Male	2,376,082	12,639	27,972	11,433	30,206	24,035	15,892	39,251	11,840	34,975	8,038
White Female	2,278,815	11,931	27,572	11,517	29,057	22,517	15,317	35,819	11,704	33,504	7,698
Negro Male	57,995	88	564	14	113	686	17	954	674	929	10
Negro Female	53,457	96	466	11	104	534	19	828	614	852	15
MALES OF VOTING AGE											
Total number	1,484,265	7,090	16,816	7,329	18,485	13,646	9,029	23,133	7,410	22,239	4,783
Number in 1900	1,212,223	7,210	18,684	6,323	16,416	10,591	8,607	17,110	8,111	17,112	4,916
Native white—Native parentage	841,556	6,617	12,541	6,168	11,642	10,767	5,786	13,550	5,813	12,870	3,750
Number in 1900	697,956	6,537	9,571	5,200	10,759	8,244	5,032	11,636	6,015	8,950	3,821
Native white—Foreign or mixed parentage	294,443	335	2,687	306	2,420	1,142	2,594	2,709	953	5,488	561
Number in 1900	356,955	449	2,480	793	2,047	1,012	2,631	2,469	1,163	5,027	676
Native white—Foreign parentage	200,175	170	1,551	417	1,420	679	1,691	1,716	610	3,851	299
Native white—Mixed parentage	94,268	165	1,116	389	1,000	463	903	1,053	348	1,637	262
Foreign-born white	308,478	81	1,253	344	4,337	1,392	635	6,247	247	3,211	464
Number in 1900	225,688	197	1,368	323	3,532	947	944	2,365	424	2,773	403
Negro	39,188	56	349	11	79	371	13	563	392	604	8
Number in 1900	31,255	87	262	6	72	335	9	479	489	579	15
Indian, Chinese, and Japanese	600	1	6	.....	7	4	1	4	.....	6	.....
PER CENT OF TOTAL.											
Native white—Native parentage	56.7	93.3	74.6	84.2	63.0	78.9	64.1	58.6	78.4	57.9	78.4
Native white—Foreign or mixed parentage	19.8	4.7	15.9	11.0	13.1	8.4	28.7	12.0	12.9	24.7	11.7
Foreign-born white	20.8	1.1	7.5	4.7	23.5	10.0	7.0	27.0	3.3	14.4	9.7
Negro	2.6	0.8	2.1	0.2	0.4	2.7	0.1	2.4	5.3	3.0	0.2
CITIZENSHIP OF FOREIGN-BORN WHITE.											
Naturalized	142,465	45	697	232	2,064	586	405	1,538	208	1,777	176
Having first papers	17,509	1	41	16	174	115	23	370	6	110	20
Alien	113,856	.....	138	83	1,584	362	20	3,001	8	900	191
Unknown	34,648	35	377	13	515	299	181	738	25	424	77
ILLITERACY											
ILLITERATE MALES OF VOTING AGE.											
Total number illiterate	62,998	492	345	120	650	1,011	236	1,649	318	516	179
Per cent illiterate	4.2	6.9	2.1	1.6	3.5	7.4	2.6	7.1	4.3	2.3	3.7
Per cent in 1900	4.8	9.5	3.4	2.3	4.1	7.8	3.7	6.7	7.6	3.0	3.1
Native white, number illiterate	22,567	475	239	91	104	695	211	462	222	258	73
Per cent illiterate	2.0	6.8	1.6	1.3	0.7	5.8	2.5	2.8	3.3	1.4	1.7
Foreign-born white, number illiterate	35,160	2	81	28	539	234	23	1,097	11	179	106
Per cent illiterate	11.4	.....	6.5	8.1	12.4	17.2	3.6	17.6	4.5	5.6	22.8
Negro, number illiterate	5,169	15	24	1	6	82	2	90	85	78	.....
Per cent illiterate	13.2	.....	6.9	.....	.....	22.1	.....	16.0	21.7	11.7	.....
PERSONS 10 YEARS OLD AND OVER.											
Total number	3,848,747	19,117	45,173	18,896	47,459	36,505	24,638	59,256	20,129	57,405	12,693
Number illiterate	124,774	1,017	715	237	1,197	2,106	497	3,040	653	1,044	315
Per cent illiterate	3.2	5.3	1.6	1.3	2.5	5.8	2.0	5.1	3.2	1.8	2.5
Native white, number	3,174,830	18,837	41,970	18,272	39,092	33,101	23,347	46,936	18,601	50,227	11,899
Number illiterate	47,310	985	492	190	192	1,517	422	980	437	527	150
Per cent illiterate	1.5	5.2	1.2	1.0	0.5	4.6	1.8	2.1	2.3	1.0	1.3
Foreign-born white, number	579,274	123	2,349	601	8,170	2,439	1,262	10,879	467	5,670	775
Number illiterate	66,887	4	175	46	993	432	73	1,833	25	347	165
Per cent illiterate	11.5	3.3	7.4	7.7	12.2	17.7	5.8	17.3	5.4	6.1	21.3
Negro, number	93,910	156	848	23	190	960	28	1,437	1,061	1,498	19
Number illiterate	10,460	23	47	1	11	157	2	177	191	167	.....
Per cent illiterate	11.1	17.9	5.5	.....	5.8	16.4	.....	12.3	18.0	11.1	.....
PERSONS 10 TO 20 YEARS, INCLUSIVE.											
Total number	966,141	5,432	12,108	4,182	11,506	10,462	7,000	15,668	5,326	14,498	3,247
Number illiterate	8,446	147	35	16	87	162	19	215	29	78	27
Per cent illiterate	0.9	2.7	0.3	0.4	0.8	1.5	0.3	1.4	0.5	0.5	0.8
SCHOOL AGE AND ATTENDANCE											
Total number 6 to 20 years, inclusive	1,313,809	7,594	16,568	5,736	16,229	14,677	9,610	22,027	7,232	19,373	4,479
Number attending school	868,578	5,237	11,202	4,143	11,184	9,682	6,664	14,257	5,354	12,167	3,204
Per cent attending school	66.1	69.0	67.6	72.2	68.9	66.0	69.3	64.7	74.0	62.8	71.5
Number 6 to 9 years	347,668	2,162	4,460	1,554	4,723	4,215	2,610	6,359	1,906	4,875	1,232
Number attending school	293,403	1,772	3,673	1,339	3,730	3,435	2,293	4,943	1,647	4,125	957
Number 10 to 14 years	425,602	2,502	5,460	1,881	5,375	4,805	3,225	7,083	2,535	6,292	1,501
Number attending school	401,235	2,319	5,198	1,800	5,104	4,437	3,052	6,665	2,454	5,910	1,458
Number 15 to 17 years	262,330	1,450	3,252	1,123	3,048	2,885	1,469	4,138	1,456	3,901	871
Number attending school	134,617	870	1,826	753	1,834	1,397	1,060	2,104	991	1,649	597
Number 18 to 20 years	278,209	1,480	3,396	1,178	3,083	2,772	1,806	4,397	1,335	4,305	876
Number attending school	39,323	276	505	251	516	413	259	545	262	483	192
PERSONS 6 TO 14 YEARS, INCLUSIVE.											
Total number	773,270	4,664	9,920	3,435	10,098	9,620	5,835	13,442	4,441	11,167	2,733
Number attending school	694,638	4,091	8,871	3,139	8,834	7,872	5,345	11,608	4,101	10,035	2,415
Per cent attending school	89.8	87.7	89.4	91.4	87.5	87.3	91.6	86.4	92.3	89.9	88.4
Native white—Native parentage, number	568,219	4,604	8,788	3,298	6,624	7,714	5,399	9,802	4,123	9,115	2,400
Number attending school	513,328	4,039	7,869	3,012	5,898	6,753	4,943	8,643	3,828	8,206	2,114
Per cent attending school	90.2	87.7	89.5	91.3	89.0	87.5	91.6	88.2	92.8	90.0	88.1
Native white—Foreign or mixed parentage, number	163,451	25	922	116	3,004	905	419	2,413	86	1,693	284
Number attending school	145,851	22	819	108	2,540	806	387	1,996	76	1,513	256
Per cent attending school	89.2	.....	88.8	93.1	84.6	89.1	92.4	82.7	.....	89.4	90.1
Foreign-born white, number	25,799	.....	57	19	437	142	12	923	1	129	47
Number attending school	21,679	.....	48	17	367	119	10	715	1	108	43
Per cent attending school	84.0	.....	.....	.....	84.0	83.8	.....	77.5	.....	83.7	.....
Negro, number	15,755	35	153	2	33	259	5	304	231	229	2
Number attending school	13,742	30	135	2	29	194	5	254	196	207	2
Per cent attending school	87.2	.....	88.2	.....	.....	74.9	.....	83.6	84.8	90.4	.....
DWELLINGS AND FAMILIES											
Dwellings, number	1,024,800	5,780	12,973	6,078	13,848	10,334	7,100	16,264	6,128	15,681	3,895
Families, number	1,138,165	5,865	13,462	6,290	14,885	10,749	7,368	17,240	6,218	16,566	3,939

* Native whites having both parents born in countries other than specified, and also those having both parents of foreign birth but born in different countries.

TABLE I.—COMPOSITION AND CHARACTERISTICS OF THE

SUBJECT.	Cham-paign.	Clark.	Cler-mont.	Clinton.	Colum-biana.	Coshoc-ton.	Crawford.	Cuya-hoga.	Darke.	Defiance.	Delaware.
POPULATION											
Total population, 1910.....	26,351	66,435	29,551	23,660	76,619	30,121	34,036	637,425	42,933	24,498	27,182
1900.....	26,642	58,939	31,610	24,202	68,590	29,337	33,915	42,539,120	42,532	26,387	26,401
1890.....	26,980	52,277	33,553	24,240	59,029	26,703	31,927	309,970	42,961	25,769	27,189
1880.....	27,817	41,948	36,713	24,756	48,602	26,642	30,583	196,943	40,496	22,515	27,381
1870.....	24,188	32,070	34,268	21,914	38,299	23,600	25,556	132,010	32,278	15,719	25,175
Increase, 1900-1910.....	-291	7,496	-2,059	-522	8,029	784	121	198,305	401	-1,889	781
Per cent of increase.....	-1.1	12.7	-6.5	-2.2	11.7	2.7	0.4	45.2	0.9	-7.2	3.0
Increase, 1890-1900.....	-338	6,662	-1,943	-38	9,561	2,634	1,988	129,150	-429	618	-788
Per cent of increase.....	-1.3	12.7	-5.8	-0.2	16.2	9.9	6.2	41.7	-1.0	2.4	-2.9
Land area (square miles).....	421	407	465	411	534	558	409	463	586	405	445
Population per square mile, 1910.....	62.6	163.2	63.6	57.6	143.5	54.0	83.2	1,376.7	73.3	60.5	61.1
Rural population per square mile, 1910.....	44.2	47.9	63.6	46.7	56.6	36.8	36.4	81.7	59.9	42.4	40.7
URBAN AND RURAL TERRITORY.											
Urban, 1910—Places of 2,500 or more in 1910.....	7,739	46,921	.....	4,491	46,385	9,603	19,143	599,579	7,832	7,327	9,076
Same places in 1900.....	6,808	38,253	.....	3,613	38,780	6,473	17,124	409,907	6,783	7,579	7,940
Per cent of increase, 1900-1910.....	13.7	22.7	.....	24.3	19.6	48.4	11.8	46.3	15.5	-3.3	14.3
Rural, 1910—Remainder of county in 1910.....	18,612	19,514	29,551	19,189	30,234	20,518	14,893	37,846	35,101	17,171	18,106
Same territory in 1900.....	19,834	20,686	31,610	20,589	29,810	22,864	16,791	29,213	35,749	18,808	18,461
Per cent of increase, 1900-1910.....	-6.2	-5.7	-6.1	-6.8	1.4	-10.3	-11.3	29.6	-1.8	-8.7	-1.9
Urban, 1900—Places of 2,500 or more in 1900.....	6,808	38,253	.....	3,613	36,287	6,473	17,124	405,526	6,783	10,099	7,940
Rural, 1900—Remainder of county in 1900.....	19,834	20,686	31,610	20,589	32,303	22,864	16,791	35,594	35,749	16,288	18,461
Per cent in places of 2,500 or more, 1910.....	29.4	70.6	.....	19.0	60.5	31.9	56.2	94.1	18.2	29.9	33.4
Per cent in places of 2,500 or more, 1900.....	25.6	64.9	.....	14.9	52.9	22.1	50.5	92.3	15.9	38.3	30.1
COLOR AND NATIVITY											
White.....	24,934	60,839	28,685	22,740	75,039	30,022	33,958	628,353	42,557	24,475	26,506
Number in 1900.....	25,176	53,693	30,427	23,001	67,706	29,245	33,855	432,810	42,111	26,324	25,819
Number in 1890.....	26,467	47,632	32,043	22,943	58,357	26,621	31,850	306,777	42,469	25,662	26,568
Negro.....	1,410	5,583	865	939	967	97	77	8,763	376	23	671
Number in 1900.....	1,460	5,243	1,183	1,169	812	91	59	6,189	421	63	578
Number in 1890.....	1,511	4,640	1,510	1,296	662	81	77	3,146	492	107	618
Black.....	1,059	2,724	580	524	569	60	53	6,127	25	9	338
Mulatto.....	351	2,859	285	415	398	37	24	2,636	351	14	333
Ind., Chi., and Jap. (see Tables I and 16).....	7	13	1	1	13	2	1	309	.....	.....	5
Native white—Native parentage.....	22,665	47,564	24,289	21,533	55,476	25,540	23,949	162,952	37,857	17,771	23,187
Number in 1900.....	22,204	39,183	25,293	21,322	48,075	24,194	22,874	109,760	36,619	17,853	21,872
Native white—Foreign or mixed parentage.....	1,748	9,679	3,344	962	12,911	3,600	7,519	251,202	3,679	5,295	2,575
Number in 1900.....	2,139	10,001	3,804	1,267	13,176	4,042	8,759	185,493	4,369	6,399	2,876
Native white—Foreign parentage.....	1,029	5,953	2,013	555	7,255	1,769	4,159	190,196	1,953	2,904	1,401
Native white—Mixed parentage.....	719	3,726	1,331	377	5,656	1,831	3,360	61,006	1,726	2,391	1,174
Foreign-born white.....	521	3,596	1,052	245	7,252	882	2,490	214,199	1,021	1,409	744
Number in 1900.....	776	3,909	1,330	412	6,516	1,009	2,822	157,567	1,133	2,072	871
PER CENT OF TOTAL POPULATION.											
Native white—Native parentage.....	86.0	71.6	82.2	90.9	72.4	84.8	70.4	25.6	88.2	72.5	85.3
Per cent in 1900.....	83.3	66.5	80.0	88.1	70.1	82.5	66.7	25.0	86.1	67.7	83.2
Native white—Foreign or mixed parentage.....	6.6	14.6	11.3	4.1	16.9	12.0	22.1	39.4	8.6	21.6	9.5
Per cent in 1900.....	8.2	18.0	12.0	5.2	19.2	15.8	25.8	42.2	10.2	24.3	10.9
Foreign-born white.....	2.0	5.4	3.6	1.0	9.5	2.9	7.3	33.6	2.4	5.8	2.7
Per cent in 1900.....	2.9	6.6	4.2	1.7	9.5	5.4	8.3	31.3	2.7	7.9	3.7
Negro.....	5.4	8.4	2.9	4.0	1.3	0.3	0.2	1.4	0.9	0.1	2.5
Per cent in 1900.....	5.5	8.9	3.7	5.0	1.2	0.5	0.2	1.4	1.0	0.2	2.2
FOREIGN NATIONALITIES											
FOREIGN-BORN WHITE: Born in—											
Austria.....	6	86	12	.....	534	20	75	44,934	15	54	14
Belgium.....	.....	1	13	3	4	1	3	95	.....	12	.....
Canada—French.....	1	8	2	1	3	.....	10	646	2	37	3
Canada—Other.....	37	127	11	13	127	35	62	9,872	16	57	29
Denmark.....	5	26	2	1	23	2	.....	814	1	1	.....
England.....	63	329	71	49	2,028	150	94	13,568	27	46	83
Finland.....	.....	1	.....	.....	1	.....	1	577	.....	.....	.....
France.....	9	12	42	5	31	26	19	584	51	29	4
Germany.....	99	1,277	648	56	990	283	1,364	46,285	477	1,010	237
Greece.....	3	53	.....	.....	47	10	9	276	5	3	2
Holland.....	1	19	3	1	17	.....	13	1,237	1	4	.....
Hungary.....	.....	28	84	1	354	20	237	34,496	.....	1	11
Ireland.....	225	928	69	88	543	120	120	12,285	89	38	168
Italy.....	25	242	16	.....	1,410	66	257	11,720	247	5	10
Roumania.....	.....	4	4	.....	148	6	18	779	.....	.....	.....
Russia.....	5	107	38	12	162	17	14	25,993	7	4	7
Scotland.....	15	90	14	2	339	34	22	3,298	12	10	20
Sweden.....	3	17	1	.....	58	12	12	1,883	3	19	3
Switzerland.....	18	74	14	.....	250	39	85	1,574	15	63	15
Turkey in Asia.....	.....	10	1	7	16	.....	3	503	.....	2	1
Turkey in Europe.....	.....	98	.....	.....	5	3	31	251	42	3	37
Wales.....	2	25	3	3	133	21	8	1,421	5	.....	79
Other foreign countries.....	4	35	4	3	29	12	33	1,108	5	11	20
NATIVE WHITE: Both parents born in—											
Austria.....	1	45	12	1	249	4	46	33,873	.....	56	8
Canada—French.....	.....	8	2	.....	2	.....	2	433	2	22	1
Canada—Other.....	13	21	4	3	35	5	16	2,475	3	9	7
England.....	58	245	74	40	1,747	131	73	8,984	27	58	72
France.....	8	20	80	15	38	42	22	513	247	37	5
Germany.....	250	2,643	1,397	198	1,644	952	3,288	66,800	1,333	2,259	523
Holland.....	.....	9	13	.....	13	1	18	1,014	.....	4	1
Hungary.....	.....	12	28	.....	77	1	33	14,764	.....	.....	6
Ireland.....	594	2,131	162	260	1,054	245	288	18,738	213	137	415
Italy.....	9	86	27	.....	614	23	28	6,083	16	1	2
Russia.....	.....	42	18	4	49	16	16	13,083	3	1	8
Scotland.....	19	109	15	7	381	47	14	1,834	10	8	21
Sweden.....	.....	17	3	.....	37	6	2	1,130	.....	19	8
Switzerland.....	5	39	16	.....	311	70	76	1,238	12	82	13
Wales.....	.....	13	2	.....	153	50	11	1,277	6	.....	190
All others of foreign parentage ¹	72	463	160	55	821	175	226	17,957	81	211	91

¹ Native whites having both parents born in countries other than specified, and also those having both parents of foreign birth but born in different countries.

STATISTICS OF POPULATION.

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POPULATION FOR THE STATE AND FOR COUNTIES—Continued.

SUBJECT.	Cham- paign.	Clark.	Cler- mont.	Clinton.	Colum- biana.	Coshoc- ton.	Crawford.	Cuya- hoga.	Darke.	Defiance.	Delaware.
SEX											
Total .. Male	13,224	33,855	14,521	11,803	33,947	15,102	17,447	328,538	21,971	12,365	13,399
Female	13,127	32,580	15,030	11,877	37,672	15,019	16,589	308,887	20,962	12,133	13,783
White .. Male	12,509	30,905	14,086	11,323	38,435	15,056	17,394	323,745	21,779	12,351	13,103
Female	12,425	29,934	14,599	11,417	37,204	14,966	16,564	304,608	20,778	12,124	13,403
Negro .. Male	708	2,937	435	479	499	44	52	4,519	192	14	291
Female	702	2,646	430	460	468	53	25	4,244	184	9	380
MALES OF VOTING AGE											
Total number	8,348	21,330	9,040	7,203	23,307	8,790	10,368	201,734	12,604	7,179	8,212
Number in 1900	8,061	17,908	9,241	7,214	20,066	8,291	10,033	128,508	11,928	7,317	7,705
Native white—Native parentage	6,874	14,138	6,973	6,368	15,543	6,757	6,542	44,765	10,296	4,887	6,601
Number in 1900	6,452	11,149	6,903	6,134	13,190	6,147	5,584	29,327	9,508	4,249	6,122
Native white—Foreign or mixed parentage	735	3,354	1,287	402	3,487	1,503	2,892	49,580	1,553	1,997	1,000
Number in 1900	785	3,143	1,333	497	3,262	1,540	2,943	33,215	1,654	1,909	949
Native white—Foreign parentage	488	2,302	829	279	2,156	790	1,775	38,504	945	1,222	597
Native white—Mixed parentage	247	1,052	458	123	1,331	713	1,117	11,076	608	775	403
Foreign-born white	271	1,906	522	132	3,948	495	1,391	103,702	644	783	401
Number in 1900	400	1,981	709	229	3,533	575	1,479	63,396	649	1,135	478
Negro	461	1,921	253	300	317	33	42	3,436	111	12	207
Number in 1900	419	1,633	346	353	269	28	26	2,462	117	24	152
Indian, Chinese, and Japanese	7	11	1	1	12	2	1	251	1	1	3
PER CENT OF TOTAL.											
Native white—Native parentage	82.3	66.3	77.1	88.4	66.7	76.9	60.2	22.2	81.7	61.1	80.4
Native white—Foreign or mixed parentage	8.8	15.7	14.2	5.6	15.0	17.1	26.6	24.6	12.3	27.8	12.2
Foreign-born white	3.2	8.9	5.8	1.8	16.9	5.6	12.8	51.4	5.1	10.9	4.9
Negro	5.5	9.0	2.9	4.2	1.4	0.4	0.4	1.7	0.9	0.2	2.5
CITIZENSHIP OF FOREIGN-BORN WHITE.											
Naturalized	170	1,048	417	94	1,696	277	832	45,166	233	577	235
Having first papers	9	41	27	3	227	12	53	8,517	13	7	2
Alien	15	310	34	23	1,418	79	365	43,461	143	5	72
Unknown	77	507	44	12	607	127	141	6,558	255	194	92
ILLITERACY											
ILLITERATE MALES OF VOTING AGE.											
Total number illiterate	246	572	294	270	804	363	198	10,205	522	151	149
Per cent illiterate	2.9	2.7	3.3	3.7	3.4	4.1	1.8	5.1	4.1	2.1	1.8
Per cent in 1900	5.8	4.9	5.6	6.3	3.7	4.7	1.7	5.1	5.3	2.7	2.9
Native white, number illiterate	183	181	236	209	261	302	69	251	323	112	102
Per cent illiterate	2.4	1.0	2.9	3.1	1.4	3.7	0.7	0.3	2.7	1.8	1.3
Foreign-born white, number illiterate	20	186	14	6	514	58	127	9,759	185	36	30
Per cent illiterate	7.4	9.8	2.7	4.5	13.0	11.7	9.1	9.4	28.7	4.6	7.5
Negro, number illiterate	43	204	44	55	26	3	2	139	14	3	17
Per cent illiterate	9.3	10.6	17.1	18.3	8.2	.....	.....	4.0	12.6	.....	8.2
PERSONS 10 YEARS OLD AND OVER.											
Total number	21,689	54,885	24,354	19,338	61,083	23,916	27,781	509,607	33,772	19,558	23,505
Number illiterate	466	1,144	576	508	1,493	714	371	22,290	988	310	286
Per cent illiterate	2.1	2.1	2.4	2.6	2.4	3.0	1.3	4.4	2.9	1.6	1.3
Native white, number	19,998	46,658	22,624	18,326	53,230	22,979	25,274	294,905	32,452	18,137	21,177
Number illiterate	332	378	440	396	578	603	170	737	683	232	198
Per cent illiterate	1.7	0.8	1.9	2.2	1.1	2.6	0.7	0.2	2.1	1.3	0.9
Foreign-born white, number	514	3,660	1,036	239	7,051	859	2,439	206,658	1,016	1,400	743
Number illiterate	56	347	43	13	865	100	197	21,167	283	75	55
Per cent illiterate	10.9	9.7	4.2	5.4	12.3	11.6	8.1	10.2	27.9	5.4	7.4
Negro, number	1,170	4,654	693	772	789	76	67	7,752	304	21	580
Number illiterate	78	418	92	99	47	11	4	329	22	3	32
Per cent illiterate	6.7	9.0	13.3	12.8	6.0	.....	.....	4.2	7.2	.....	5.5
PERSONS 10 TO 20 YEARS, INCLUSIVE.											
Total number	5,029	13,213	5,843	4,777	15,531	6,364	6,737	126,249	9,169	5,411	5,992
Number illiterate	13	44	30	25	112	22	29	1,556	45	8	23
Per cent illiterate	0.3	0.3	0.5	0.5	0.7	0.3	0.4	1.2	0.5	0.1	0.4
SCHOOL AGE AND ATTENDANCE											
Total number 6 to 20 years, inclusive	6,794	17,697	7,951	6,513	21,401	8,776	9,216	171,372	12,738	7,393	7,849
Number attending school	4,648	11,357	5,828	4,898	14,235	6,019	6,659	106,286	9,080	5,208	5,761
Per cent attending school	68.4	64.2	73.3	75.2	66.5	68.6	72.3	62.0	71.3	70.4	73.3
Number 6 to 9 years	1,765	4,484	2,108	1,736	5,870	2,412	2,479	45,123	3,569	1,982	1,857
Number attending school	1,415	3,758	1,871	1,517	4,869	1,986	2,146	39,854	3,100	1,752	1,562
Number 10 to 14 years	2,228	5,614	2,683	2,191	6,994	2,914	3,039	53,760	4,291	2,437	2,472
Number attending school	2,108	5,292	2,587	2,116	6,582	2,730	2,931	50,120	4,122	2,329	2,335
Number 15 to 17 years	1,381	3,624	1,656	1,288	4,198	1,761	1,845	33,524	2,453	1,474	1,779
Number attending school	863	1,799	1,058	911	2,138	1,021	1,200	12,429	1,487	885	1,288
Number 18 to 20 years	1,420	3,975	1,504	1,298	4,339	1,689	1,853	38,965	2,425	1,500	1,741
Number attending school	262	508	312	354	646	262	382	3,883	371	242	566
PERSONS 6 TO 14 YEARS, INCLUSIVE.											
Total number	3,993	10,098	4,791	3,927	12,864	5,326	5,518	98,883	7,860	4,419	4,329
Number attending school	3,523	9,050	4,458	3,633	11,451	4,716	5,077	89,974	7,222	4,081	3,897
Per cent attending school	88.2	89.6	93.0	92.5	89.0	88.5	91.0	91.0	91.9	92.4	90.0
Native white—Native parentage, number	3,654	8,071	4,310	3,698	10,089	5,009	4,734	29,846	7,505	3,820	4,006
Number attending school	3,218	7,290	4,014	3,423	8,976	4,427	4,368	27,798	6,901	3,533	3,602
Per cent attending school	88.1	90.3	93.1	92.6	89.0	88.4	92.3	93.1	92.0	92.5	89.9
Native white—Foreign or mixed parentage, number	110	1,105	270	76	2,328	264	724	56,756	268	583	195
Number attending school	104	971	254	72	2,098	239	657	51,361	238	536	176
Per cent attending school	94.5	87.9	94.1	.....	90.1	90.5	90.7	90.5	88.8	91.9	90.3
Foreign-born white, number	6	54	37	7	293	40	55	11,400	5	12	9
Number attending school	4	43	35	6	235	37	47	10,002	4	9	8
Per cent attending school .....	.....	.....	.....	.....	80.2	.....	.....	87.7	.....	.....	.....
Negro, number	223	867	174	146	154	13	5	868	82	4	118
Number attending school	197	745	155	132	142	13	5	803	79	3	111
Per cent attending school	88.3	85.9	89.1	90.4	92.2	.....	.....	92.5	.....	.....	94.1
DWELLINGS AND FAMILIES											
Dwellings, number	6,821	15,816	7,638	5,872	17,962	7,291	8,273	106,895	10,483	5,891	6,791
Families, number	7,005	16,435	7,815	6,172	18,663	7,487	8,505	142,508	10,655	6,012	6,996

TABLE I.—COMPOSITION AND CHARACTERISTICS OF THE

SUBJECT.	Erie.	Fairfield.	Fayette.	Franklin.	Fulton.	Gallia.	Geauga.	Greene.	Guernsey.	Hamilton.	Hancock.
POPULATION											
Total population, 1910.....	38,327	39,201	21,744	221,567	23,914	25,745	14,670	29,733	42,716	460,732	37,880
1900.....	37,650	34,259	21,725	164,460	22,801	27,918	14,744	31,613	34,425	409,479	41,993
1890.....	35,462	33,939	22,309	124,087	22,023	27,005	13,489	29,820	28,645	374,573	42,563
1880.....	32,640	34,284	20,364	86,797	21,053	28,124	14,251	31,349	27,197	313,374	27,784
1870.....	28,188	31,138	17,170	63,019	17,789	25,545	14,190	28,038	23,838	260,370	23,847
Increase, 1900-1910.....	677	4,942	19	57,107	1,113	-2,173	-74	-1,880	8,291	51,253	-4,133
Per cent of increase.....	1.8	14.4	0.1	34.7	4.9	-7.8	-0.5	-5.9	24.1	12.5	-9.8
Increase, 1890-1900.....	2,188	320	-584	40,373	778	913	1,255	1,793	5,780	34,906	-570
Per cent of increase.....	6.2	0.9	-2.6	32.5	3.5	3.4	9.3	6.0	20.2	9.3	-1.3
Land area (square miles).....	256	495	413	517	405	449	416	415	518	407	535
Population per square mile, 1910.....	149.7	79.2	52.6	428.6	59.0	57.3	35.3	71.6	82.5	1,132.0	70.8
Rural population per square mile, 1910.....	71.6	52.7	35.0	77.5	52.5	45.0	35.3	50.7	54.5	131.4	40.1
URBAN AND RURAL TERRITORY.											
Urban, 1910—Places of 2,500 or more in 1910.....	19,989	13,093	7,277	181,511	2,650	5,500	.....	8,706	14,483	407,259	16,403
Same places in 1900.....	19,664	8,991	5,751	125,560	2,148	5,432	.....	8,696	9,508	357,565	18,953
Per cent of increase, 1900-1910.....	1.7	45.6	26.5	44.6	23.4	2.4	.....	0.1	52.3	13.9	-13.5
Rural, 1910—Remainder of county in 1910.....	18,338	26,108	14,467	40,056	21,264	20,185	14,670	21,027	28,233	53,473	21,457
Same territory in 1900.....	17,986	25,268	15,974	38,900	20,653	22,486	14,744	22,917	24,917	51,914	23,040
Per cent of increase, 1900-1910.....	2.0	3.3	-9.4	3.0	3.0	-10.2	-0.5	-8.2	13.3	3.0	-6.9
Urban, 1900—Places of 2,500 or more in 1900.....	19,664	8,991	5,751	125,560	.....	5,432	.....	8,696	8,241	349,768	18,953
Rural, 1900—Remainder of county in 1900.....	17,986	25,268	15,974	38,900	22,801	22,486	14,744	22,917	26,184	59,711	23,040
Per cent in places of 2,500 or more, 1910.....	52.2	33.4	33.5	81.9	11.1	21.6	.....	29.3	33.9	88.4	43.3
Per cent in places of 2,500 or more, 1900.....	52.2	26.2	26.5	76.3	.....	19.5	.....	27.5	23.9	85.4	45.1
COLOR AND NATIVITY											
White.....	38,015	38,747	20,513	207,492	23,908	23,867	14,661	25,760	42,227	436,397	37,609
Number in 1900.....	37,224	33,857	20,355	155,213	22,780	25,635	14,728	27,554	33,952	391,764	41,609
Number in 1890.....	35,030	33,645	20,638	117,620	21,999	24,613	13,479	25,750	28,149	350,777	42,201
Negro.....	311	449	1,231	14,006	6	1,875	9	3,970	480	24,300	249
Number in 1900.....	425	402	1,398	9,223	21	2,281	16	4,055	472	17,695	389
Number in 1890.....	429	393	1,680	6,445	23	2,388	10	4,000	496	14,757	356
Black.....	201	255	658	9,379	4	945	8	2,465	271	16,993	141
Mulatto.....	110	194	573	4,627	2	930	1	1,505	218	7,337	108
Ind., Chi., and Jap. (see Tables I and 16).....	1	5	.....	69	.....	3	.....	3	.....	35	2
Native white—Native parentage.....	17,782	34,528	19,683	148,243	18,584	22,216	10,942	23,243	33,289	210,551	32,341
Number in 1900.....	15,023	29,241	19,156	104,711	17,029	23,389	11,731	24,042	29,201	157,210	34,307
Native white—Foreign or mixed parentage.....	14,115	3,516	688	40,600	4,103	1,344	2,342	1,918	5,028	159,933	4,116
Number in 1900.....	15,099	3,730	937	35,833	4,331	1,833	1,870	2,618	3,210	166,196	5,502
Native white—Foreign parentage.....	9,345	1,840	334	24,710	2,152	786	1,327	1,155	3,242	106,173	2,029
Native white—Mixed parentage.....	4,770	1,676	354	15,890	1,951	558	1,015	763	1,786	53,780	2,037
Foreign-born white.....	6,118	703	142	18,649	1,221	307	1,377	599	3,910	65,893	1,152
Number in 1900.....	7,102	886	232	14,669	1,420	413	1,127	894	1,541	68,358	1,796
PER CENT OF TOTAL POPULATION.											
Native white—Native parentage.....	46.4	88.1	90.5	66.9	77.7	86.3	74.6	78.2	77.9	45.7	85.4
Per cent in 1900.....	39.9	85.4	88.2	63.7	74.7	83.8	79.6	76.1	84.8	38.4	81.7
Native white—Foreign or mixed parentage.....	36.8	9.0	3.2	18.3	17.2	5.2	16.0	6.5	11.8	34.7	10.9
Per cent in 1900.....	40.1	10.9	4.3	21.3	19.0	6.6	12.7	8.3	9.3	40.6	15.1
Foreign-born white.....	16.0	1.8	0.7	8.4	5.1	1.2	9.4	2.0	9.2	14.3	3.0
Per cent in 1900.....	18.9	2.6	1.1	8.9	6.2	1.5	7.6	2.8	4.5	16.7	4.3
Negro.....	0.8	1.1	5.7	6.3	(¹)	7.3	0.1	13.4	1.1	5.3	0.7
Per cent in 1900.....	1.1	1.2	6.4	5.6	0.1	8.2	0.1	12.8	1.4	4.5	0.9
FOREIGN NATIONALITIES											
FOREIGN-BORN WHITE: Born in—											
Austria.....	270	19	.....	874	50	4	229	3	894	1,803	9
Belgium.....	29	11	.....	123	10	.....	.....	.....	49	31	34
Canada—French.....	15	3	1	97	6	.....	6	.....	3	87	4
Canada—Other.....	213	27	6	619	72	8	78	25	36	1,086	100
Denmark.....	21	2	1	47	1	.....	10	1	.....	98	4
England.....	410	55	21	1,293	117	24	240	71	495	2,330	83
Finland.....	4	.....	.....	6	6	3	137	.....	.....	14	.....
France.....	38	9	2	170	53	.....	1	1	102	788	33
Germany.....	3,495	364	48	6,571	454	127	300	221	153	34,166	674
Greece.....	.....	2	.....	123	4	.....	3	.....	.....	15	2
Holland.....	5	1	1	42	1	.....	3	.....	.....	10	2
Hungary.....	395	15	.....	1,218	44	5	47	.....	.....	389	2
Ireland.....	343	61	48	1,927	49	15	73	.....	1,283	6,747	3
Italy.....	503	37	.....	2,265	.....	.....	.....	209	75	7,089	58
Roumania.....	16	1	.....	.....	.....	6	50	1	29	2,392	7
Russia.....	53	24	.....	1,546	76	8	37	.....	32	575	.....
Scotland.....	62	9	4	321	10	6	51	16	165	5,101	11
Sweden.....	34	2	.....	121	.....	.....	.....	.....	.....	.....	.....
Switzerland.....	117	40	1	380	254	10	33	33	218	612	13
Turkey in Asia.....	1	9	3	71	2	.....	39	4	17	148	5
Turkey in Europe.....	32	.....	.....	61	.....	.....	3	.....	9	856	95
Wales.....	16	5	1	572	1	79	7	2	55	269	.....
Other foreign countries.....	46	7	4	174	5	2	13	2	77	324	.....
NATIVE WHITE: Both parents born in—											
Austria.....	183	15	.....	268	1	.....	180	1	682	746	1
Canada—French.....	7	4	.....	137	10	.....	.....	.....	.....	35	2
Canada—Other.....	72	9	1	147	21	.....	18	.....	.....	218	20
England.....	374	73	17	1,010	124	1	38	8	11	1,998	81
France.....	32	21	2	169	146	9	195	63	398	829	84
Germany.....	6,844	1,206	146	13,066	983	336	389	445	67	73,071	1,305
Holland.....	6	.....	2	22	2	1	.....	.....	.....	.....	1
Hungary.....	79	16	.....	176	1	10	3	.....	.....	407	1
Ireland.....	758	239	123	4,371	104	43	20	.....	829	992	2
Italy.....	208	19	.....	935	.....	3	143	509	289	14,751	169
Russia.....	38	22	.....	721	52	2	23	.....	4	1,456	3
Scotland.....	44	10	8	253	17	13	28	13	117	2,922	9
Sweden.....	13	4	.....	49	.....	.....	.....	.....	.....	444	22
Switzerland.....	73	46	1	266	.....	.....	4	.....	23	61	10
Wales.....	8	9	5	967	2	6	39	4	5	436	104
All others of foreign parentage.....	606	147	29	2,153	321	59	244	64	185	369	15

¹ Less than one-tenth of 1 per cent.

STATISTICS OF POPULATION.

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POPULATION FOR THE STATE AND FOR COUNTIES—Continued.

SUBJECT.	Erie.	Fairfield.	Fayette.	Franklin.	Fulton.	Gallia.	Geauga.	Greene.	Guernsey.	Hamilton.	Hancock.
SEX											
Total.. Male.....	19,968	20,154	11,033	112,443	12,253	13,090	7,610	14,854	22,141	226,350	18,758
Female.....	18,359	19,047	10,711	109,124	11,661	12,655	7,060	14,879	20,575	234,382	19,102
White.. Male.....	19,794	19,842	10,386	104,900	12,251	12,104	7,602	12,854	21,884	214,158	18,631
Female.....	18,221	18,905	10,127	102,592	11,657	11,763	7,059	12,906	20,343	222,239	18,978
Negro.. Male.....	173	307	647	7,483	2	983	8	1,997	257	12,167	125
Female.....	138	142	584	6,523	4	892	1	1,973	232	12,133	124
MALES OF VOTING AGE											
Total number.....	13,236	11,427	6,541	73,366	7,306	7,356	4,812	9,074	12,618	143,692	11,289
Number in 1900.....	13,031	9,696	6,302	61,628	6,649	7,321	4,883	9,256	9,636	116,638	12,282
Native white—Native parentage.....	5,111	9,662	5,782	44,875	5,069	6,044	3,423	6,826	9,455	51,172	9,100
Number in 1900.....	5,784	7,820	5,391	30,308	4,503	5,303	3,708	6,711	7,810	32,111	9,417
Native white—Foreign or mixed parentage.....	4,643	1,347	300	13,058	1,586	608	626	734	938	52,005	1,523
Number in 1900.....	4,303	1,365	368	10,715	1,416	699	538	877	872	46,278	1,845
Native white—Foreign parentage.....	3,455	757	171	8,576	931	369	344	482	487	37,722	863
Native white—Mixed parentage.....	1,188	590	129	4,482	655	239	282	252	451	14,283	660
Foreign-born white.....	3,356	334	76	9,900	649	149	755	290	2,082	31,689	587
Number in 1900.....	3,766	428	129	7,296	724	210	681	429	828	32,315	712
Negro.....	125	83	383	5,487	2	552	8	1,221	143	8,802	97
Number in 1900.....	177	82	412	3,291	6	608	6	1,284	125	6,966	106
Indian, Chinese, and Japanese.....	1	1		46		3		3		24	2
PER CENT OF TOTAL.											
Native white—Native parentage.....	38.6	84.6	88.4	61.2	69.4	82.2	71.1	75.2	74.9	35.6	80.6
Native white—Foreign or mixed parentage.....	35.1	11.8	4.6	17.8	21.7	8.3	13.0	8.1	7.4	36.2	13.5
Foreign-born white.....	25.4	2.9	1.2	13.5	8.9	2.0	15.7	3.2	16.5	22.1	5.2
Negro.....	0.9	0.7	5.9	7.5	(1)	7.5	0.2	13.5	1.1	6.1	0.7
CITIZENSHIP OF FOREIGN-BORN WHITE.											
Naturalized.....	2,396	245	39	5,099	350	112	408	224	528	20,951	315
Having first papers.....	63	7		457	14	4	23	3	151	1,951	37
Alien.....	664	23	1	2,960	132	3	231	34	1,068	7,092	23
Unknown.....	233	59	36	1,384	153	30	93	29	335	1,695	212
ILLITERACY											
ILLITERATE MALES OF VOTING AGE.											
Total number illiterate.....	513	361	408	2,670	120	594	93	405	982	4,784	192
Per cent illiterate.....	3.9	3.2	6.2	3.6	1.6	8.1	1.9	4.5	7.8	3.3	1.7
Per cent in 1900.....	4.1	4.4	7.2	4.1	3.0	11.1	2.7	7.7	5.2	3.4	2.3
Native white, number illiterate.....	216	322	320	781	95	466	22	167	237	884	170
Per cent illiterate.....	2.2	2.9	5.3	1.3	1.4	7.0	0.5	2.2	2.3	0.9	1.6
Foreign-born white, number illiterate.....	269	31	8	1,335	25	20	69	20	728	2,424	13
Per cent illiterate.....	8.0	9.3		13.5	3.9	13.4	9.1	6.9	35.0	7.6	3.1
Negro, number illiterate.....	28	8	80	545		108	2	218	17	1,474	4
Per cent illiterate.....	22.4		20.9	9.9		19.6		17.9	11.9	16.7	
PERSONS 10 YEARS OLD AND OVER.											
Total number.....	32,021	31,597	17,402	185,700	19,101	20,353	12,049	24,459	32,775	387,373	30,681
Number illiterate.....	828	809	727	5,541	256	1,358	153	778	1,717	11,194	398
Per cent illiterate.....	2.6	2.6	4.2	3.0	1.3	6.7	1.3	3.2	5.2	2.9	1.3
Native white, number.....	25,699	30,499	16,275	155,290	17,882	18,575	10,682	20,598	28,707	301,657	29,329
Number illiterate.....	315	724	573	2,079	194	1,090	42	305	480	2,221	341
Per cent illiterate.....	1.2	2.4	3.5	1.3	1.1	5.9	0.4	1.5	1.7	0.7	1.2
Foreign-born white, number.....	6,051	698	142	18,185	1,213	307	1,358	590	3,701	64,437	1,144
Number illiterate.....	470	60	13	2,340	62	50	109	55	1,203	5,857	49
Per cent illiterate.....	7.8	8.6	9.2	12.9	5.1	16.3	8.0	9.3	32.5	9.1	4.3
Negro, number.....	270	395	985	12,163	6	1,468	9	3,268	367	21,246	206
Number illiterate.....	43	25	141	1,111		218	2	418	34	3,112	8
Per cent illiterate.....	15.9	6.3	14.3	9.1		14.9		12.8	9.3	14.6	3.9
PERSONS 10 TO 20 YEARS, INCLUSIVE.											
Total number.....	7,369	8,687	4,507	42,101	4,924	5,689	2,779	6,229	8,858	92,987	7,916
Number illiterate.....	34	40	40	515	16	174	5	17	174	559	18
Per cent illiterate.....	0.5	0.5	0.9	1.2	0.3	3.1	0.2	0.3	2.0	0.6	0.2
SCHOOL AGE AND ATTENDANCE											
Total number 6 to 20 years, inclusive.....	9,841	11,594	6,116	55,840	6,769	7,789	3,787	8,350	12,565	120,908	10,690
Number attending school.....	6,580	8,630	4,116	35,638	4,889	5,818	2,630	6,297	8,594	72,777	7,420
Per cent attending school.....	66.7	74.4	67.3	63.8	72.2	74.7	69.4	75.4	68.4	60.2	69.4
Number 6 to 9 years.....	2,472	2,907	1,609	13,739	1,845	2,100	1,008	2,121	3,707	27,921	2,774
Number attending school.....	2,212	2,489	1,273	11,651	1,587	1,819	822	1,849	3,050	24,196	2,293
Number 10 to 14 years.....	3,246	3,962	2,070	17,235	2,310	2,721	1,293	2,869	4,102	38,392	3,588
Number attending school.....	3,082	3,822	1,917	16,140	2,220	2,590	1,207	2,803	3,904	35,799	3,417
Number 15 to 17 years.....	2,058	2,563	1,183	11,433	1,287	1,575	761	1,819	2,338	25,737	2,161
Number attending school.....	1,000	1,791	703	5,776	855	1,050	456	1,243	1,292	9,646	1,311
Number 18 to 20 years.....	2,065	2,162	1,254	13,433	1,327	1,398	725	1,541	2,418	28,858	2,167
Number attending school.....	266	528	223	2,071	227	359	145	402	348	3,136	399
PERSONS 6 TO 14 YEARS, INCLUSIVE.											
Total number.....	5,718	6,869	3,679	30,974	4,155	4,821	2,301	4,990	7,809	66,313	6,362
Number attending school.....	5,294	6,311	3,190	27,791	3,807	4,409	2,029	4,652	6,954	59,995	5,710
Per cent attending school.....	92.6	91.9	86.7	89.7	91.6	91.5	88.2	93.2	89.1	90.5	89.8
Native white—Native parentage, number.....	3,662	6,423	3,414	23,666	3,663	4,407	1,739	4,151	6,250	43,143	5,844
Number attending school.....	3,423	5,889	2,964	21,386	3,345	4,045	1,535	3,871	5,583	39,137	5,241
Per cent attending school.....	93.5	91.7	86.8	90.4	91.3	91.8	88.3	93.3	89.3	90.7	89.7
Native white—Foreign or mixed parentage, number.....	1,923	303	43	5,047	472	33	515	154	1,169	18,338	456
Number attending school.....	1,769	287	41	4,472	444	31	456	138	1,051	16,610	417
Per cent attending school.....	92.0	94.7		88.6	94.1		88.5	89.6	89.9	90.6	91.4
Foreign-born white, number.....	95	29		651	20	3	47	12	307	1,959	19
Number attending school.....	69	27		534	18	1	38	11	252	1,681	16
Per cent attending school.....				82.0					82.1	85.8	
Negro, number.....	38	111	222	1,603					88	2,869	43
Number attending school.....	33	105	185	1,393					68	2,564	36
Per cent attending school.....		94.6	83.3	86.9		87.8		93.9		89.4	
DWELLINGS AND FAMILIES											
Dwellings, number.....	8,984	9,251	5,368	48,869	6,084	5,666	3,831	7,481	9,829	69,007	9,627
Families, number.....	9,240	9,540	5,466	52,144	6,161	5,733	3,900	7,691	10,105	109,611	9,999

² Native whites having both parents born in countries other than specified, and also those having both parents of foreign birth but born in different countries.

TABLE I.—COMPOSITION AND CHARACTERISTICS OF THE

SUBJECT.	Hardin.	Harrison.	Henry.	Highland.	Hocking.	Holmes.	Huron.	Jackson.	Jefferson.	Knox.	Lake.
POPULATION											
Total population, 1910	30,407	19,076	25,119	23,711	23,650	17,909	34,206	30,791	65,423	30,181	22,927
1900	31,187	20,486	27,282	30,982	24,398	19,511	32,330	34,248	44,357	27,768	21,680
1890	27,039	20,830	25,080	29,048	22,658	21,139	31,949	28,408	39,415	27,600	18,235
1880	27,024	20,456	20,585	30,281	21,126	20,776	31,609	23,686	33,018	27,431	16,326
1870	18,714	18,682	14,028	29,133	17,925	18,177	28,532	21,759	29,188	27,333	15,935
Increase, 1900-1910	-750	-1,410	-2,163	-2,271	-748	-1,602	1,876	-3,457	21,066	2,413	1,247
Per cent of increase	-2.5	-6.9	-7.9	-7.3	-3.1	-8.2	5.8	-10.1	47.5	8.7	5.8
Increase, 1890-1900	2,248	-344	2,202	1,934	1,740	-1,623	381	5,840	4,942	168	3,445
Per cent of increase	7.8	-1.7	8.8	6.7	7.7	-7.7	1.2	20.6	12.5	0.6	18.9
Land area (square miles)	473	401	414	549	411	418	494	404	407	513	241
Population per square mile, 1910	64.3	47.6	60.7	52.3	57.5	42.8	69.2	76.2	160.7	58.8	95.1
Rural population per square mile, 1910	49.1	47.6	51.0	36.8	45.7	42.8	40.7	45.7	85.3	41.1	72.3
URBAN AND RURAL TERRITORY.											
Urban, 1910—Places of 2,500 or more in 1910	7,185	-----	4,007	8,524	4,850	-----	14,110	12,343	30,711	9,087	5,501
Same places in 1900	6,852	-----	3,639	8,514	3,480	-----	12,229	12,717	20,829	6,333	5,024
Per cent of increase, 1900-1910	4.9	-----	10.1	0.1	39.4	-----	15.4	-2.9	47.4	37.0	9.5
Rural, 1910—Remainder of county in 1910	23,222	19,076	21,112	20,187	18,800	17,909	20,096	18,448	34,712	21,094	17,426
Same territory in 1900	24,335	20,486	23,643	22,468	20,918	19,511	20,101	21,531	23,528	21,135	16,656
Per cent of increase, 1900-1910	-4.6	-6.9	-10.7	-10.2	-10.1	-8.2	(¹)	-14.3	47.5	-0.2	4.6
Urban, 1900—Places of 2,500 or more in 1900	9,428	-----	3,639	8,514	3,480	-----	9,881	12,717	20,829	6,333	5,024
Rural, 1900—Remainder of county in 1900	21,759	20,486	23,643	22,468	20,918	19,511	22,449	21,531	23,528	21,135	16,656
Per cent in places of 2,500 or more, 1910	23.6	-----	16.0	29.7	20.5	-----	41.3	40.1	46.9	30.1	24.0
Per cent in places of 2,500 or more, 1900	30.2	-----	13.3	27.5	14.3	-----	30.6	37.1	47.0	23.9	23.2
COLOR AND NATIVITY											
White	29,848	18,464	25,111	27,319	23,506	17,901	33,921	30,081	63,768	29,857	22,685
Number in 1900	30,661	19,856	27,252	29,406	24,144	19,511	32,129	33,489	42,782	27,482	21,422
Number in 1890	28,323	19,932	25,041	27,534	22,524	21,133	31,760	27,669	38,228	27,291	18,013
Negro	556	612	8	1,379	143	8	284	708	1,647	323	237
Number in 1900	524	628	30	1,675	252	197	756	1,569	285	219	249
Number in 1890	609	897	38	1,491	133	6	186	758	1,184	307	219
Black	353	527	6	850	88	2	181	268	1,442	233	167
Mulatto	203	85	2	529	55	6	103	440	205	90	70
Ind., Chi., and Jap. (see Tables I and 16)	3	-----	-----	13	1	-----	1	2	8	1	5
Native white—Native parentage	25,604	16,784	17,312	25,946	20,633	15,322	23,932	26,530	36,643	26,451	13,510
Number in 1900	25,500	18,312	17,792	27,199	20,875	16,059	21,596	27,972	29,516	24,353	13,887
Native white—Foreign or mixed parentage	3,407	1,078	5,982	1,120	2,055	2,055	7,094	2,920	12,453	2,423	5,602
Number in 1900	4,187	1,269	6,897	1,731	2,422	2,637	7,707	4,371	8,022	2,423	4,392
Native white—Foreign parentage	1,709	489	3,495	553	1,168	968	4,140	1,645	9,016	1,196	3,697
Native white—Mixed parentage	1,698	589	2,487	567	887	1,089	2,954	1,275	3,437	1,227	1,905
Foreign-born white	837	602	1,817	253	818	524	2,895	631	14,672	983	3,573
Number in 1900	1,174	275	2,563	476	847	765	2,826	1,146	5,244	724	3,143
PER CENT OF TOTAL POPULATION.											
Native white—Native parentage	84.2	88.0	68.9	90.4	87.2	85.6	70.0	86.2	56.0	87.6	58.9
Per cent in 1900	81.1	89.4	65.2	87.8	85.6	82.3	66.8	81.7	66.5	87.6	64.1
Native white—Foreign or mixed parentage	11.2	5.7	23.8	3.9	8.7	11.5	20.7	9.5	19.0	8.0	24.4
Per cent in 1900	13.4	6.2	25.3	5.6	9.9	13.8	23.8	12.8	18.1	8.7	20.8
Foreign-born white	2.8	3.2	7.2	0.9	3.5	2.9	8.5	2.0	22.4	3.3	15.6
Per cent in 1900	3.8	1.3	9.4	1.5	3.5	3.9	8.7	3.3	11.8	2.6	14.5
Negro	1.8	3.2	(²)	4.8	0.6	(²)	0.8	2.3	2.5	1.1	1.0
Per cent in 1900	1.7	3.1	0.1	5.1	1.0	-----	0.6	2.2	3.5	1.0	1.1
FOREIGN NATIONALITIES											
FOREIGN-BORN WHITE: Born in—											
Austria	6	63	5	7	75	7	103	11	2,718	25	125
Belgium	-----	1	-----	1	-----	1	-----	2	196	223	3
Canada—French	3	-----	9	2	-----	16	-----	9	-----	2	17
Canada—Other	36	10	40	3	7	4	155	10	73	58	211
Denmark	2	-----	3	1	-----	12	-----	1	8	3	19
England	57	35	57	20	129	12	576	68	920	252	437
Finland	-----	4	-----	-----	-----	-----	-----	1	-----	-----	638
France	5	-----	22	41	1	40	31	6	90	28	8
Germany	346	30	1,556	89	171	235	1,006	175	818	101	443
Greece	7	-----	1	-----	-----	1	9	-----	69	10	-----
Holland	-----	3	-----	2	-----	1	68	-----	3	14	18
Hungary	8	199	1	-----	267	5	140	1	2,327	10	708
Ireland	111	43	44	56	38	12	239	86	574	104	303
Italy	11	145	2	4	7	37	194	5	3,596	77	395
Roumania	-----	-----	1	-----	2	-----	87	1	-----	4	-----
Russia	9	50	15	2	35	6	57	2	1,938	8	53
Scotland	6	9	8	13	20	2	47	10	365	22	52
Sweden	2	4	16	1	21	-----	58	1	25	12	63
Switzerland	169	3	18	3	3	155	70	5	26	20	98
Turkey in Asia	7	-----	8	3	-----	1	-----	23	-----	-----	5
Turkey in Europe	41	-----	-----	-----	-----	-----	-----	-----	13	-----	-----
Wales	5	6	1	4	31	2	7	215	390	4	17
Other foreign countries	6	4	3	1	5	3	18	4	489	6	20
NATIVE WHITE: Both parents born in—											
Austria	2	42	4	7	61	-----	13	2	1,201	6	92
Canada—French	3	1	7	-----	-----	-----	10	7	-----	2	4
Canada—Other	6	-----	25	1	-----	-----	38	9	-----	14	56
England	81	42	55	16	156	23	492	56	651	260	420
France	6	-----	24	85	57	19	1	43	-----	27	7
Germany	942	58	3,035	204	448	555	2,384	550	1,323	318	689
Holland	-----	-----	2	-----	-----	-----	85	1	-----	6	12
Hungary	-----	83	-----	-----	204	1	10	-----	1,084	2	530
Ireland	258	-----	95	167	97	45	578	280	1,185	252	589
Italy	-----	18	-----	2	-----	-----	44	1	1,040	12	209
Russia	6	42	-----	7	-----	4	26	2	1,015	6	121
Scotland	19	13	14	20	17	3	36	9	250	26	29
Sweden	-----	18	-----	-----	28	-----	71	-----	8	7	26
Switzerland	198	5	51	5	5	200	71	12	29	19	18
Wales	12	6	1	1	48	1	8	637	274	9	11
All others of foreign parentage	176	43	164	45	93	77	255	94	895	230	884

¹ A decrease of less than one-tenth of 1 per cent.

² Less than one-tenth of 1 per cent.

STATISTICS OF POPULATION.

POPULATION FOR THE STATE AND FOR COUNTIES—Continued.

SUBJECT.	Hardin.	Harrison.	Henry.	Highland.	Hocking.	Holmes.	Huron.	Jackson.	Jefferson.	Knox.	Lake.
SEX											
Total.. Male.....	15,505	9,484	12,846	14,298	12,224	9,104	17,309	15,616	35,512	15,073	11,522
Female.....	14,902	9,592	12,273	14,413	11,426	8,805	16,897	15,175	29,911	15,108	11,405
White.. Male.....	15,203	9,200	12,842	13,582	12,143	9,101	17,150	15,245	34,678	14,906	11,394
Female.....	14,645	9,264	12,269	13,737	11,363	8,800	16,771	14,836	29,090	14,951	11,291
Negro.. Male.....	299	284	4	708	80	3	158	369	826	166	124
Female.....	257	328	4	671	63	5	126	339	821	157	113
MALES OF VOTING AGE											
Total number.....	9,155	5,788	7,174	8,599	6,505	5,129	11,018	8,272	21,268	9,406	7,194
Number in 1900.....	9,082	6,012	7,534	9,001	6,412	5,258	9,980	9,014	13,520	8,189	6,916
Native white—Native parentage.....	7,081	4,900	4,221	7,524	5,323	3,968	6,788	6,472	10,258	7,864	3,991
Number in 1900.....	6,783	5,213	4,241	7,585	5,122	3,901	5,979	6,582	8,012	6,840	4,143
Native white—Foreign or mixed parentage.....	1,410	376	1,987	503	700	850	2,552	1,259	2,312	902	1,271
Number in 1900.....	1,534	494	1,928	668	750	931	2,496	1,623	1,982	377	1,040
Native white—Foreign parentage.....	792	128	1,314	261	360	438	1,670	782	1,515	465	792
Native white—Mixed parentage.....	618	248	673	242	340	412	882	477	797	437	479
Foreign-born white.....	494	361	963	146	428	310	1,576	343	8,179	534	1,841
Number in 1900.....	657	154	1,367	262	446	426	1,443	608	3,030	388	1,646
Negro.....	167	151	3	422	53	1	101	196	511	105	87
Number in 1900.....	166	149	8	485	92	1	69	198	490	83	80
Indian, Chinese, and Japanese.....	3	.....	.....	4	.....	.....	1	2	8	1	4
PER CENT OF TOTAL.											
Native white—Native parentage.....	77.3	84.7	58.8	87.5	81.8	77.4	61.6	78.2	48.2	83.6	55.5
Native white—Foreign or mixed parentage.....	15.4	6.5	27.7	5.8	10.8	16.6	23.2	15.2	10.9	9.6	17.7
Foreign-born white.....	5.4	6.2	13.4	1.7	6.6	6.0	14.3	4.1	38.5	5.7	25.6
Negro.....	1.8	2.6	(?)	4.9	0.8	(?)	0.9	2.4	2.4	1.1	1.2
CITIZENSHIP OF FOREIGN-BORN WHITE.											
Naturalized.....	214	61	575	120	192	174	944	235	1,538	309	858
Having first papers.....	7	20	7	4	35	6	48	6	301	16	70
Alien.....	55	211	11	5	88	37	426	11	4,968	104	610
Unknown.....	218	69	370	17	113	93	158	91	1,372	105	303
ILLITERACY											
ILLITERATE MALES OF VOTING AGE.											
Total number illiterate.....	219	190	184	302	559	124	231	783	1,998	202	288
Per cent illiterate.....	2.4	3.3	2.6	3.5	8.6	2.4	2.1	9.5	9.4	2.1	4.0
Per cent in 1900.....	4.6	3.1	5.3	6.6	9.3	3.3	2.0	12.6	8.6	2.5	3.0
Native white, number illiterate.....	159	106	134	224	420	89	65	709	231	136	85
Per cent illiterate.....	1.9	2.0	2.2	2.8	7.0	1.8	0.7	9.2	1.8	1.6	0.7
Foreign-born white, number illiterate.....	25	65	50	9	126	35	150	41	1,724	59	245
Per cent illiterate.....	5.1	18.0	5.2	6.2	29.4	11.3	9.5	12.0	21.1	11.0	13.3
Negro, number illiterate.....	34	19	.....	69	13	.....	16	33	43	7	8
Per cent illiterate.....	20.4	12.6	.....	16.4	.....	.....	15.8	16.8	8.4	6.7	.....
PERSONS 10 YEARS OLD AND OVER.											
Total number.....	24,477	15,508	19,548	23,402	17,730	13,993	28,146	23,314	50,261	24,735	18,677
Number illiterate.....	400	358	388	641	1,168	295	408	1,714	3,337	362	511
Per cent illiterate.....	1.6	2.3	2.0	2.7	6.5	2.1	1.4	7.4	6.6	1.5	2.7
Native white, number.....	23,202	14,458	17,738	22,026	16,820	13,467	25,070	22,168	35,092	23,503	14,978
Number illiterate.....	306	207	249	471	885	234	117	1,520	465	256	67
Per cent illiterate.....	1.3	1.4	1.4	2.1	5.3	1.7	0.5	6.9	1.3	1.1	0.4
Foreign-born white, number.....	836	579	1,804	253	788	522	2,839	626	13,865	964	3,496
Number illiterate.....	42	103	138	16	250	58	258	103	2,779	87	441
Per cent illiterate.....	5.0	17.8	7.6	6.3	31.7	11.1	9.1	16.5	20.0	9.0	12.6
Negro, number.....	436	471	6	1,113	121	4	236	518	1,296	267	199
Number illiterate.....	51	48	1	154	23	3	33	91	93	19	13
Per cent illiterate.....	11.7	10.2	.....	13.8	19.0	.....	14.0	17.6	7.2	7.1	6.5
PERSONS 10 TO 20 YEARS, INCLUSIVE.											
Total number.....	6,409	3,750	5,699	5,821	5,248	3,923	6,390	7,054	12,619	5,867	4,483
Number illiterate.....	15	22	11	36	70	21	29	185	385	22	49
Per cent illiterate.....	0.2	0.6	0.2	0.6	1.3	0.5	0.5	2.6	3.1	0.4	1.1
SCHOOL AGE AND ATTENDANCE											
Total number 6 to 20 years, inclusive.....	8,720	5,152	7,930	7,911	7,491	5,446	8,758	9,916	18,070	7,984	6,120
Number attending school.....	6,290	3,740	5,682	5,785	5,336	3,760	6,305	6,983	10,733	5,889	3,981
Per cent attending school.....	72.1	72.6	71.7	73.1	71.2	69.0	72.0	70.4	59.4	73.8	65.0
Number 6 to 9 years.....	2,311	1,402	2,231	2,090	2,243	1,523	2,368	2,862	5,451	2,117	1,637
Number attending school.....	1,993	1,073	1,761	1,761	1,948	1,199	2,095	2,467	3,891	1,837	1,169
Number 10 to 14 years.....	2,929	1,766	2,692	2,645	2,508	1,854	2,909	3,439	5,609	2,632	2,116
Number attending school.....	2,770	1,667	2,601	2,551	2,398	1,751	2,793	3,209	4,993	2,549	1,954
Number 15 to 17 years.....	1,773	986	1,546	1,619	1,410	1,060	1,771	1,904	3,286	1,584	1,227
Number attending school.....	1,158	721	924	1,101	797	637	1,129	1,020	1,457	1,087	681
Number 18 to 20 years.....	1,707	998	1,461	1,557	1,330	1,009	1,710	1,711	3,724	1,651	1,140
Number attending school.....	369	279	207	372	193	173	288	287	392	416	177
PERSONS 6 TO 14 YEARS, INCLUSIVE.											
Total number.....	5,240	3,168	4,923	4,735	4,751	3,377	5,277	6,301	11,060	4,749	3,753
Number attending school.....	4,763	2,740	4,551	4,312	4,346	2,950	4,888	5,676	8,884	4,386	3,123
Per cent attending school.....	90.9	86.5	92.4	91.1	91.5	87.4	92.6	90.1	80.3	92.4	83.2
Native white—Native parentage, number.....	4,887	2,897	3,990	4,425	4,374	3,179	4,393	5,961	6,872	4,418	2,264
Number attending school.....	4,435	2,538	3,688	4,037	4,002	2,781	4,076	5,378	5,738	4,082	2,028
Per cent attending school.....	90.8	87.6	92.4	91.2	91.5	87.5	92.8	90.2	83.5	92.4	89.6
Native white—Foreign or mixed parentage, number.....	240	108	921	38	300	192	754	177	2,780	265	1,320
Number attending school.....	228	88	854	34	276	168	699	164	2,117	247	974
Per cent attending school.....	95.0	81.5	92.7	.....	92.0	87.5	92.7	92.7	76.2	93.2	73.8
Foreign-born white, number.....	2	39	11	1	52	2	83	5	1,121	23	131
Number attending school.....	2	31	8	1	45	1	71	5	796	19	91
Per cent attending school.....	.....	.....	.....	.....	.....	.....	.....	.....	71.0	.....	69.5
Negro, number.....	111	124	1	268	25	4	47	158	287	43	38
Number attending school.....	98	83	1	237	23	.....	42	129	233	33	30
Per cent attending school.....	88.3	66.9	.....	88.4	.....	.....	.....	81.6	81.2	.....	.....
DWELLINGS AND FAMILIES											
Dwellings, number.....	7,564	4,781	5,888	7,345	5,323	4,187	8,743	6,816	13,336	7,740	5,394
Families, number.....	7,740	4,931	5,947	7,477	5,449	4,285	8,955	6,881	14,093	8,058	5,766

* Native whites having both parents born in countries other than specified, and also those having both parents of foreign birth but born in different countries.

TABLE I.—COMPOSITION AND CHARACTERISTICS OF THE

Table with 12 columns representing counties: Lawrence, Licking, Logan, Lorain, Lucas, Madison, Mahoning, Marion, Medina, Meigs, Mercer. Rows are categorized into Population, Urban and Rural Territory, Color and Nativity, Per Cent of Total Population, and Foreign Nationalities. Data includes population counts, percentages, and parentage origins.

1 Native whites having both parents born in countries other than specified, and also those having both parents of foreign birth but born in different countries.

STATISTICS OF POPULATION.

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POPULATION FOR THE STATE AND FOR COUNTIES—Continued.

SUBJECT.	Lawrence.	Licking.	Logan.	Lorain.	Lucas.	Madison.	Mahoning.	Marion.	Medina.	Meigs.	Mercer.
SEX											
Total.. Male.....	19,799	28,447	15,218	40,658	97,384	10,244	64,389	17,248	12,040	12,837	14,121
Female.....	19,689	27,143	14,866	35,379	95,344	9,658	51,762	16,723	11,558	12,757	13,415
White.. Male.....	18,840	28,221	14,816	39,900	96,377	9,832	63,221	17,124	11,980	12,484	14,055
Female.....	18,856	26,929	14,490	34,595	94,380	9,323	50,825	16,615	11,504	12,420	13,366
Negro.. Male.....	957	219	401	740	958	410	1,148	124	60	353	66
Female.....	832	213	376	781	960	335	935	108	54	337	49
MALES OF VOTING AGE											
Total number.....	10,214	17,730	9,305	25,293	59,920	6,049	41,202	10,509	7,466	7,290	7,454
Number in 1900.....	9,884	14,007	8,931	17,174	44,476	6,109	21,445	8,515	6,684	7,599	7,277
Native white—Native parentage.....	8,069	13,916	8,110	9,120	24,799	4,953	13,808	7,919	5,526	5,843	4,801
Number in 1900.....	7,417	11,096	7,692	7,382	16,833	4,698	8,557	5,977	5,005	5,683	4,301
Native white—Foreign or mixed parentage.....	1,189	2,039	741	5,230	17,119	620	7,100	1,753	1,102	974	2,043
Number in 1900.....	1,383	1,901	775	3,978	12,682	766	4,512	1,692	1,002	1,190	2,074
Native white—Foreign parentage.....	757	1,198	352	3,624	12,369	397	5,161	1,012	648	600	1,218
Native white—Mixed parentage.....	432	841	389	1,606	4,750	223	1,939	741	454	374	825
Foreign-born white.....	355	1,617	201	10,447	17,230	224	19,431	758	802	251	570
Number in 1900.....	538	868	277	5,370	14,300	352	7,981	787	639	446	859
Negro.....	599	151	252	479	733	250	845	79	36	222	40
Number in 1900.....	496	137	286	436	628	291	387	58	38	280	42
Indian, Chinese, and Japanese.....	2	7	1	17	39	2	18				
PER CENT OF TOTAL.											
Native white—Native parentage.....	79.0	78.5	87.2	36.1	41.4	81.9	33.5	75.4	74.0	80.2	64.4
Native white—Foreign or mixed parentage.....	11.6	11.5	8.0	20.7	28.6	10.2	17.2	16.7	14.8	13.4	27.4
Foreign-born white.....	3.5	9.1	2.2	41.3	28.8	3.7	47.2	7.2	10.7	3.4	7.6
Negro.....	5.9	0.9	2.7	1.9	1.2	4.1	2.1	0.8	0.5	3.0	0.5
CITIZENSHIP OF FOREIGN-BORN WHITE.											
Naturalized.....	183	467	123	3,440	9,746	132	5,321	458	454	195	336
Having first papers.....	3	66	3	615	763	1	821	40	35	1	5
Alien.....	39	715	11	5,148	4,470	3	11,075	168	273	4	24
Unknown.....	130	369	64	1,244	2,251	88	2,214	92	40	51	205
ILLITERACY											
ILLITERATE MALES OF VOTING AGE.											
Total number illiterate.....	1,186	320	200	1,325	2,088	293	3,761	259	97	300	202
Per cent illiterate.....	11.6	1.8	2.1	5.2	3.5	4.8	9.1	2.5	1.3	4.1	2.7
Per cent in 1900.....	15.6	5.3	3.8	2.7	4.7	7.6	8.8	2.7	2.2	3.5	4.9
Native white, number illiterate.....	1,013	161	164	93	520	228	147	136	61	253	185
Per cent illiterate.....	10.9	1.0	1.9	0.6	1.2	4.1	0.7	1.4	0.9	3.7	2.7
Foreign-born white, number illiterate.....	36	146	8	1,195	1,532	20	3,550	111	29	12	15
Per cent illiterate.....	10.1	9.0	4.0	11.4	8.9	8.9	18.3	14.6	3.6	4.8	2.6
Negro, number illiterate.....	137	11	28	36	32	45	61	12	7	35	2
Per cent illiterate.....	22.9	7.3	11.1	7.5	4.4	18.0	7.2			15.8	
PERSONS 10 YEARS OLD AND OVER.											
Total number.....	29,642	45,680	24,525	60,633	156,820	15,809	92,634	27,325	19,303	20,364	20,937
Number illiterate.....	2,573	588	359	2,250	4,377	517	6,313	464	264	654	388
Per cent illiterate.....	8.7	1.3	1.5	3.7	2.8	3.3	6.8	1.7	1.4	3.2	1.9
Native white, number.....	27,567	42,706	23,534	41,453	121,273	14,813	58,526	25,791	17,831	19,313	19,739
Number illiterate.....	2,184	346	291	166	1,075	384	369	286	189	540	355
Per cent illiterate.....	7.9	0.8	1.2	0.4	0.9	2.6	0.6	1.1	1.1	2.8	1.8
Foreign-born white, number.....	684	2,599	355	17,883	33,810	401	32,336	1,347	1,378	495	1,109
Number illiterate.....	101	216	20	8,996	3,223	54	5,833	1,555	58	35	81
Per cent illiterate.....	14.8	8.3	5.6	11.2	9.5	13.5	18.0	11.5	4.2	7.1	2.8
Negro, number.....	1,388	367	635	1,277	1,687	593	1,751	187	94	556	89
Number illiterate.....	288	24	48	86	74	79	107	23	17	79	2
Per cent illiterate.....	20.7	6.5	7.6	6.7	4.4	13.3	6.1	12.3		14.2	
PERSONS 10 TO 20 YEARS, INCLUSIVE.											
Total number.....	9,321	10,963	6,040	14,814	39,010	4,190	21,804	6,801	4,668	5,663	6,467
Number illiterate.....	192	46	11	150	182	11	516	29	13	27	11
Per cent illiterate.....	2.1	0.4	0.2	1.0	0.5	0.3	2.4	0.4	0.3	0.5	0.2
SCHOOL AGE AND ATTENDANCE											
Total number 6 to 20 years, inclusive.....	13,179	14,975	8,131	20,378	52,907	5,811	30,128	9,284	6,402	7,671	9,039
Number attending school.....	8,863	10,173	5,778	13,745	33,316	3,896	17,201	6,430	4,799	5,473	6,297
Per cent attending school.....	67.3	67.9	71.1	67.5	63.0	67.0	57.1	69.3	75.0	71.3	69.7
Number 6 to 9 years.....	3,858	4,012	2,091	5,564	13,897	1,621	8,324	2,483	1,734	2,008	2,572
Number attending school.....	3,147	3,272	1,630	4,886	12,166	1,224	6,223	2,153	1,573	1,707	2,226
Number 10 to 14 years.....	4,455	4,826	2,721	6,207	16,778	1,961	9,088	2,961	2,092	2,678	3,058
Number attending school.....	4,153	4,562	2,594	6,507	15,644	1,842	8,185	2,836	2,040	2,565	2,898
Number 15 to 17 years.....	2,505	2,972	1,643	3,900	10,727	1,139	5,517	1,838	1,252	1,543	1,782
Number attending school.....	1,273	1,773	1,177	1,992	4,231	650	2,288	1,118	887	934	917
Number 18 to 20 years.....	2,361	3,165	1,676	4,407	11,505	1,090	7,199	2,002	1,324	1,442	1,627
Number attending school.....	290	566	377	660	1,275	180	505	323	299	267	256
PERSONS 6 TO 14 YEARS, INCLUSIVE.											
Total number.....	8,313	8,838	4,812	12,071	30,675	3,582	17,412	5,444	3,826	4,686	5,630
Number attending school.....	7,300	7,834	4,224	11,093	27,810	3,066	14,408	4,989	3,613	4,272	5,124
Per cent attending school.....	87.8	88.6	87.8	91.9	90.7	85.6	82.7	91.6	94.4	91.2	91.0
Native white—Native parentage, number.....	7,787	8,154	4,555	6,396	16,454	3,358	8,304	5,038	3,265	4,445	5,058
Number attending school.....	6,835	7,247	3,995	5,981	15,264	2,879	7,053	4,623	3,097	4,050	4,697
Per cent attending school.....	87.8	88.9	87.7	93.5	92.8	85.7	84.9	91.8	94.9	91.1	90.9
Native white—Foreign or mixed parentage, number.....	187	562	124	4,494	12,693	99	7,429	358	501	129	550
Number attending school.....	166	490	115	4,087	11,241	80	6,092	329	461	117	505
Per cent attending school.....	88.8	87.2	92.7	90.9	88.6		82.0	91.9	92.0	90.7	91.8
Foreign-born white, number.....	8	75	4	952	1,325	1	1,427	13	38	1	2
Number attending school.....	7	59	1	820	1,121	1	1,073	7	33	1	2
Per cent attending school.....				86.1	84.6		75.2				
Negro, number.....	331	47	129	229	198	124	252	35	22	111	20
Number attending school.....	292	38	113	205	180	106	190	30	22	104	20
Per cent attending school.....	88.2		87.6	89.5	90.9	85.5	75.4			93.7	
DWELLINGS AND FAMILIES											
Dwellings, number.....	8,305	13,797	7,623	15,932	41,466	4,740	22,067	8,412	5,927	6,293	5,920
Families, number.....	8,485	14,288	7,868	17,495	45,336	4,862	24,414	8,574	6,086	6,409	6,002

TABLE I.—COMPOSITION AND CHARACTERISTICS OF THE

SUBJECT.	Miami.	Monroe.	Mont-gomery.	Morgan.	Morrow.	Muskingum.	Noble.	Ottawa.	Paulding.	Perry.	Pickaway.
POPULATION											
Total population, 1910.....	45,047	24,244	163,763	16,097	16,815	57,488	18,601	22,360	22,730	35,396	26,158
1900.....	43,105	27,031	130,146	17,905	17,879	53,185	19,466	22,213	27,528	31,841	27,016
1890.....	39,754	25,175	100,852	19,143	18,120	51,210	20,753	21,974	25,932	31,151	26,959
1880.....	36,158	26,496	78,550	20,074	19,072	49,774	21,138	19,762	13,485	28,218	27,415
1870.....	32,740	25,779	64,006	20,363	18,583	44,886	19,949	13,364	8,544	18,463	24,875
Increase, 1900-1910.....	1,942	-2,787	33,617	-1,808	-1,064	4,303	-865	147	-4,798	3,555	-858
Per cent of increase.....	4.5	-10.3	25.8	-10.1	-6.0	8.1	-4.4	0.7	-17.4	11.2	-3.2
Increase, 1890-1900.....	3,351	1,856	29,294	-1,238	-241	1,975	-1,287	239	1,596	690	57
Per cent of increase.....	8.4	7.4	22.0	-6.5	-1.3	3.9	-6.2	1.1	6.2	2.2	0.2
Land area (square miles).....	408	448	455	402	403	664	399	270	413	399	490
Population per square mile, 1910.....	110.4	54.1	359.9	40.0	41.7	86.6	46.6	82.8	55.0	88.7	53.4
Rural population per square mile, 1910.....	62.6	48.5	94.3	40.0	41.7	44.4	46.6	71.7	55.0	74.7	39.6
URBAN AND RURAL TERRITORY.											
Urban, 1910—Places of 2,500 or more in 1910.....	19,510	2,502	120,848	.....	.....	28,026	.....	3,007	.....	5,587	6,744
Same places in 1900.....	18,053	1,801	89,274	.....	.....	23,538	.....	2,450	.....	2,536	6,991
Per cent of increase, 1900-1910.....	8.1	38.9	35.4	.....	.....	19.1	.....	22.7	.....	120.3	-3.5
Rural, 1910—Remainder of county in 1910.....	25,537	21,742	42,915	16,097	16,815	29,462	18,601	19,353	22,730	29,809	19,414
Same territory in 1900.....	25,052	25,230	40,872	17,905	17,879	29,647	19,466	19,763	27,528	29,305	20,025
Per cent of increase, 1900-1910.....	1.9	-13.8	5.0	-10.1	-6.0	-0.6	-4.4	-2.1	-17.4	1.7	-3.1
Urban, 1900—Places of 2,500 or more in 1900.....	18,053	.....	89,274	.....	.....	23,538	.....	.....	.....	2,966	6,991
Rural, 1900—Remainder of county in 1900.....	25,052	27,031	40,872	17,905	17,879	29,647	19,466	22,213	27,528	28,875	20,025
Per cent in places of 2,500 or more, 1910.....	43.3	10.3	73.8	.....	.....	48.8	.....	13.4	.....	15.8	25.8
Per cent in places of 2,500 or more, 1900.....	41.9	.....	68.6	.....	.....	44.3	.....	.....	.....	9.3	25.9
COLOR AND NATIVITY											
White.....	43,936	24,153	158,253	15,950	16,759	55,787	18,556	22,328	22,228	34,832	25,463
Number in 1900.....	41,945	26,946	126,121	17,774	17,823	51,929	19,428	22,171	26,728	31,235	26,266
Number in 1890.....	38,575	25,073	98,364	18,983	18,005	49,991	20,716	21,926	25,047	30,536	25,948
Negro.....	1,109	90	5,481	147	56	1,086	44	31	502	563	695
Number in 1900.....	1,153	84	4,000	131	56	1,255	37	40	766	555	788
Number in 1890.....	1,177	102	3,478	160	116	1,211	37	47	867	565	1,009
Black.....	734	40	4,033	69	30	1,012	24	23	149	488	497
Mulatto.....	375	50	1,448	78	26	674	20	8	353	95	198
Ind., Chi., and Jap. (see Tables 1 and 16).....	2	1	29	.....	.....	15	1	1	.....	1	.....
Native white—Native parentage.....	37,336	20,509	110,580	15,099	15,501	47,519	16,715	9,780	19,128	27,406	23,602
Number in 1900.....	34,207	21,963	82,339	16,737	16,255	43,092	17,834	8,774	22,717	23,110	25,782
Native white—Foreign or mixed parentage.....	5,118	3,070	31,139	670	1,058	6,042	1,250	8,247	2,425	4,854	1,393
Number in 1900.....	5,939	4,018	29,503	877	1,254	6,344	1,350	8,798	3,108	5,382	1,922
Native white—Foreign parentage.....	2,903	1,600	20,157	272	432	3,379	506	5,637	1,120	2,866	635
Native white—Mixed parentage.....	2,215	1,470	10,982	398	626	2,663	744	2,610	1,305	1,988	758
Foreign-born white.....	1,482	574	16,534	181	200	2,226	591	4,301	675	2,572	483
Number in 1900.....	1,799	965	14,279	160	314	1,993	244	4,599	933	2,793	523
PER CENT OF TOTAL POPULATION.											
Native white—Native parentage.....	82.9	84.6	67.5	93.8	92.2	82.7	89.9	43.7	84.2	77.4	90.2
Per cent in 1900.....	79.4	81.3	63.3	93.5	90.9	81.0	91.6	39.5	82.5	72.6	88.0
Native white—Foreign or mixed parentage.....	11.4	12.7	19.0	4.2	6.3	10.5	6.7	36.9	10.7	13.7	5.3
Per cent in 1900.....	13.8	14.9	22.7	4.9	7.0	12.9	6.9	39.6	11.3	16.9	7.1
Foreign-born white.....	3.3	2.4	10.1	1.1	1.2	3.9	3.2	19.2	3.0	7.3	1.8
Per cent in 1900.....	4.2	3.6	11.0	0.9	1.8	3.7	3.3	20.7	3.4	8.8	1.9
Negro.....	2.5	0.4	3.3	0.9	0.3	2.9	0.2	0.1	2.2	1.6	2.7
Per cent in 1900.....	2.7	0.3	3.1	0.7	0.3	2.4	0.2	0.2	2.8	1.7	2.9
FOREIGN NATIONALITIES											
FOREIGN-BORN WHITE: <i>Born in—</i>											
Austria.....	21	1	699	.....	1	81	28	437	22	102	49
Belgium.....	.....	.....	4	.....	.....	2	.....	7	43	.....	.....
Canada—French.....	5	.....	36	.....	2	9	1	28	15	2	.....
Canada—Other.....	54	10	435	4	7	60	2	89	34	28	5
Denmark.....	1	.....	27	.....	1	7	.....	76	1	3	.....
England.....	119	13	627	31	43	237	22	77	46	520	32
Finland.....	1	.....	2	.....	.....	2	.....	.....	.....	.....	.....
France.....	25	10	137	.....	1	24	3	10	22	6	2
Germany.....	858	286	7,384	33	87	781	87	2,646	361	393	191
Greece.....	5	5	117	.....	.....	29	3	63	.....	.....	61
Holland.....	3	.....	46	.....	.....	3	.....	3	11	2	.....
Hungary.....	46	1	2,821	13	1	234	346	359	31	503	8
Ireland.....	143	16	1,467	38	26	244	13	69	37	178	64
Italy.....	116	.....	392	.....	.....	95	.....	188	1	199	9
Roumania.....	1	.....	37	.....	.....	13	.....	37	.....	20	.....
Russia.....	12	6	1,548	1	1	198	54	90	2	19	24
Scotland.....	29	6	172	55	2	70	9	14	6	346	4
Sweden.....	1	3	51	.....	1	5	.....	14	7	4	1
Switzerland.....	20	212	172	.....	12	12	.....	48	25	7	3
Turkey in Asia.....	4	3	46	.....	.....	40	.....	6	1	9	.....
Turkey in Europe.....	.....	.....	203	.....	.....	23	.....	21	.....	6	7
Wales.....	11	1	34	4	13	47	5	3	4	213	.....
Other foreign countries.....	7	1	77	1	2	13	15	16	6	12	6
NATIVE WHITE: <i>Both parents born in—</i>											
Austria.....	9	.....	216	.....	.....	35	11	387	8	68	.....
Canada—French.....	3	.....	22	.....	2	3	.....	29	21	.....	.....
Canada—Other.....	16	1	87	3	3	19	1	26	9	7	.....
England.....	112	18	463	37	39	215	20	108	68	422	27
France.....	54	15	157	1	1	50	.....	12	38	18	3
Germany.....	2,060	904	13,594	94	260	1,813	317	4,352	739	574	895
Holland.....	4	.....	33	.....	.....	1	.....	1	3	.....	.....
Hungary.....	5	1	415	18	.....	54	211	65	2	274	9
Ireland.....	385	48	2,742	79	55	659	59	134	88	453	127
Italy.....	26	.....	176	.....	.....	9	.....	21	.....	91	.....
Russia.....	16	1	728	.....	1	57	33	54	.....	2	30
Scotland.....	13	4	123	16	8	70	8	18	3	298	3
Sweden.....	1	.....	33	.....	.....	2	.....	7	5	2	.....
Switzerland.....	15	398	70	.....	13	15	.....	29	24	.....	2
Wales.....	14	1	49	4	21	90	12	4	1	334	.....
All others of foreign parentage.....	170	119	1,251	20	29	287	34	390	111	823	98

1 Native whites having both parents born in countries other than specified, and also those having both parents of foreign birth but born in different countries.

STATISTICS OF POPULATION.

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POPULATION FOR THE STATE AND FOR COUNTIES—Continued.

SUBJECT.	Miami.	Monroe.	Montgomery.	Morgan.	Morrow.	Muskogum.	Noble.	Ottawa.	Paulding.	Perry.	Pickaway.
SEX											
Total Male.....	22,468	12,189	85,099	8,010	8,538	28,466	9,481	11,678	11,809	18,380	13,575
Female.....	22,579	12,055	78,664	8,087	8,277	29,022	9,120	10,682	10,921	17,016	12,583
White Male.....	21,903	12,143	82,143	7,926	8,511	27,637	9,460	11,655	11,535	18,081	13,160
Female.....	22,033	12,010	76,110	8,024	8,248	28,150	9,096	10,673	10,693	16,751	12,303
Negro Male.....	563	45	2,929	84	27	820	20	22	274	298	415
Female.....	546	45	2,552	63	29	866	24	9	228	265	280
MALES OF VOTING AGE											
Total number.....	13,962	6,497	56,003	4,803	5,210	17,653	5,346	6,983	6,289	10,159	8,189
Number in 1900.....	12,804	7,185	42,684	6,177	5,408	15,386	5,128	6,382	7,250	8,648	7,687
Native white—Native parentage.....	10,802	4,832	34,191	4,409	4,627	13,699	4,541	2,178	4,797	7,314	7,061
Number in 1900.....	9,485	5,149	25,881	4,680	4,714	11,595	4,428	2,022	5,476	5,828	6,444
Native white—Foreign or mixed parentage.....	1,968	1,353	10,352	265	451	2,236	464	2,394	954	1,294	562
Number in 1900.....	2,030	1,464	9,253	377	486	2,416	548	2,007	1,041	1,252	702
Native white—Foreign parentage.....	1,253	773	7,187	104	212	1,292	251	1,824	510	815	272
Native white—Mixed parentage.....	715	580	3,175	161	239	944	213	570	444	479	290
Foreign-born white.....	804	311	9,246	84	115	1,209	329	2,393	391	1,374	294
Number in 1900.....	929	550	8,073	80	186	995	157	2,338	526	1,410	287
Negro.....	386	20	2,180	45	17	504	11	17	147	176	272
Number in 1900.....	355	21	1,455	40	20	379	14	14	205	167	232
Indian, Chinese, and Japanese.....	2	1	24	.....	.....	5	1	.....	.....	1	.....
PER CENT OF TOTAL.											
Native white—Native parentage.....	77.4	74.4	61.1	91.8	88.8	77.6	84.9	31.2	76.3	72.0	86.2
Native white—Foreign or mixed parentage.....	14.1	20.5	18.5	5.5	8.7	12.7	8.7	34.3	15.2	12.7	6.9
Foreign-born white.....	5.8	4.8	16.5	1.7	2.2	6.8	6.2	34.3	6.2	13.5	3.6
Negro.....	2.8	0.3	3.9	0.9	0.3	2.9	0.2	0.2	2.3	1.7	3.3
CITIZENSHIP OF FOREIGN-BORN WHITE.											
Naturalized.....	431	186	5,059	43	100	462	77	1,344	222	779	111
Having first papers.....	18	3	411	5	1	33	29	34	13	65	3
Alien.....	141	9	3,061	7	2	441	171	711	45	286	122
Unknown.....	214	113	715	29	12	273	52	304	111	244	58
ILLITERACY											
ILLITERATE MALES OF VOTING AGE.											
Total number illiterate.....	336	350	1,861	152	84	560	239	540	353	471	463
Per cent illiterate.....	2.4	5.4	3.3	3.2	1.6	3.2	4.5	7.7	5.6	4.6	5.7
Per cent in 1900.....	3.6	6.9	4.0	5.1	1.9	3.9	6.2	8.4	10.0	8.0	7.6
Native white, number illiterate.....	203	315	582	143	76	317	194	126	289	290	361
Per cent illiterate.....	1.6	5.1	1.3	3.1	1.5	2.0	3.9	2.8	5.0	3.4	4.7
Foreign-born white, number illiterate.....	71	33	862	3	7	182	44	412	41	160	46
Per cent illiterate.....	8.8	10.6	9.3	.....	6.1	15.1	13.4	17.2	10.5	11.6	15.6
Negro, number illiterate.....	61	2	409	6	1	60	1	1	23	21	56
Per cent illiterate.....	15.8	.....	18.8	.....	.....	11.9	.....	.....	15.6	11.9	20.6
PERSONS 10 YEARS OLD AND OVER.											
Total number.....	36,935	18,660	135,655	13,095	13,708	47,178	14,455	17,832	17,122	27,013	20,998
Number illiterate.....	733	739	3,465	273	149	1,090	496	893	639	944	824
Per cent illiterate.....	2.0	4.0	2.6	2.1	1.1	2.3	3.4	5.0	3.7	3.5	3.9
Native white, number.....	34,532	18,023	114,794	12,813	13,467	43,635	13,859	13,555	16,077	24,101	19,942
Number illiterate.....	480	659	1,155	253	132	638	405	241	521	578	661
Per cent illiterate.....	1.4	3.7	1.0	2.0	1.0	1.5	2.9	1.8	3.2	2.4	3.3
Foreign-born white, number.....	1,469	573	16,097	174	198	2,183	567	4,251	663	2,487	465
Number illiterate.....	130	72	1,646	6	16	323	90	649	76	326	65
Per cent illiterate.....	8.8	12.6	10.2	3.4	8.1	14.8	15.9	15.3	11.5	13.1	14.0
Negro, number.....	932	63	4,736	108	43	1,346	28	25	382	424	591
Number illiterate.....	122	8	655	14	1	127	1	2	42	40	98
Per cent illiterate.....	13.1	.....	13.8	13.0	.....	9.4	.....	.....	11.0	9.4	16.6
PERSONS 10 TO 20 YEARS, INCLUSIVE.											
Total number.....	8,822	5,633	29,938	3,333	3,301	11,387	4,009	4,759	5,335	7,798	5,487
Number illiterate.....	28	45	138	19	2	59	27	52	36	43	31
Per cent illiterate.....	0.3	0.8	0.5	0.6	0.1	0.5	0.7	1.1	0.7	0.6	0.6
SCHOOL AGE AND ATTENDANCE											
Total number 6 to 20 years, inclusive.											
Number attending school.....	11,954	7,876	40,439	4,522	4,583	15,274	5,568	6,509	7,527	10,912	7,452
Number attending school.....	7,893	5,778	25,970	3,816	3,564	10,083	3,993	4,650	5,459	7,617	4,886
Per cent attending school.....	66.0	73.4	64.2	73.3	77.8	66.0	71.7	71.4	72.5	68.9	65.6
Number 6 to 9 years.....											
Number attending school.....	3,132	2,243	10,501	1,189	1,282	3,887	1,559	1,750	2,192	3,114	1,965
Number attending school.....	2,547	1,772	9,140	996	1,180	3,137	1,276	1,630	1,951	2,647	1,504
Number 10 to 14 years.....	3,970	2,670	12,622	1,495	1,565	4,868	1,924	2,244	2,568	3,538	2,493
Number attending school.....	3,753	2,543	11,981	1,437	1,536	4,633	1,847	2,155	2,426	3,390	2,334
Number 15 to 17 years.....	2,401	1,559	8,021	973	878	3,153	1,068	1,292	1,416	2,201	1,499
Number attending school.....	1,266	1,116	3,849	681	644	1,779	671	722	878	1,272	839
Number 18 to 20 years.....	2,451	1,404	9,295	860	858	3,366	1,017	1,223	1,351	2,059	1,525
Number attending school.....	327	347	1,000	202	204	534	199	143	204	308	209
PERSONS 6 TO 14 YEARS, INCLUSIVE.											
Total number.....	7,102	4,913	23,123	2,684	2,847	8,755	3,483	3,994	4,760	6,652	4,458
Number attending school.....	6,300	4,315	21,121	2,433	2,716	7,770	3,123	3,785	4,377	5,937	3,838
Per cent attending school.....	88.7	87.8	91.3	90.6	95.4	88.7	89.7	94.8	92.0	89.3	86.1
Native white—Native parentage, number.....											
Number attending school.....	6,490	4,702	18,119	2,600	2,788	7,878	3,314	2,382	4,350	5,441	4,241
Number attending school.....	5,757	4,115	16,633	2,364	2,638	7,019	2,976	2,265	4,002	4,838	3,643
Per cent attending school.....	88.7	87.5	91.3	90.9	95.3	89.1	89.8	95.1	92.0	88.9	85.9
Native white—Foreign or mixed parentage, number.....											
Number attending school.....	428	182	3,324	46	72	561	127	1,538	290	389	106
Number attending school.....	385	172	3,481	36	72	492	112	1,460	267	320	95
Per cent attending school.....	90.0	94.5	90.8	.....	.....	87.7	88.2	94.9	92.1	93.0	89.6
Foreign-born white, number.....											
Number attending school.....	20	5	566	12	3	55	32	74	15	115	5
Number attending school.....	17	5	477	11	3	44	26	60	13	98	5
Per cent attending school.....	.....	.....	84.3	.....	.....	.....	.....	.....	.....	85.2	.....
Negro, number.....											
Number attending school.....	164	24	603	26	4	259	10	.....	105	107	106
Number attending school.....	141	23	530	22	3	213	9	.....	95	81	95
Per cent attending school.....	86.0	.....	87.9	.....	.....	82.2	.....	.....	90.5	75.7	89.6
DWELLINGS AND FAMILIES											
Dwellings, number.....	11,455	5,392	36,668	4,090	4,485	14,059	4,362	5,212	5,219	7,856	6,098
Families, number.....	11,864	5,471	38,587	4,190	4,553	14,590	4,422	5,285	5,259	8,052	6,285

TABLE I.—COMPOSITION AND CHARACTERISTICS OF THE

SUBJECT.	Pike.	Portage.	Preble.	Putnam.	Richland.	Ross.	San-dusky.	Scioto.	Seneca.	Shelby.	Stark.
POPULATION											
Total population, 1910	15,723	30,307	23,834	29,972	47,667	40,069	35,171	48,463	42,421	24,663	122,987
1900	18,172	29,246	23,713	32,525	44,289	40,940	34,311	40,981	41,163	24,625	94,747
1890	17,482	27,868	23,421	30,188	38,072	39,454	30,617	35,377	40,869	24,707	84,170
1880	17,927	27,500	24,533	23,713	36,306	40,307	32,057	33,511	36,947	24,137	64,031
1870	15,447	24,584	21,309	17,081	32,516	37,097	25,503	29,302	30,827	20,748	52,508
Increase, 1900-1910	-2,449	1,061	121	-2,553	3,378	-871	860	7,482	1,258	38	28,240
Per cent of increase	-13.5	3.6	0.5	-7.8	7.6	-2.1	2.5	18.3	3.1	0.2	29.8
Increase, 1890-1900	690	1,378	292	2,337	6,217	1,486	3,694	5,604	294	-82	10,577
Per cent of increase	3.9	4.9	1.2	7.7	16.3	3.8	12.1	15.8	0.7	-0.3	12.6
Land area (square miles)	428	521	416	482	503	668	413	623	550	413	566
Population per square mile, 1910	36.7	58.2	57.3	62.2	94.8	60.0	85.2	77.8	77.1	59.7	217.3
Rural population per square mile, 1910	36.7	39.4	49.6	62.2	43.7	38.3	49.7	40.1	40.9	43.7	77.4
URBAN AND RURAL TERRITORY.											
Urban, 1910—Places of 2,500 or more in 1910	9,798	3,187	-----	-----	25,671	14,508	14,661	23,481	19,946	6,607	79,179
Same places in 1900	8,544	3,155	-----	-----	22,325	12,976	12,248	17,870	17,379	5,688	51,585
Per cent of increase, 1900-1910	14.7	1.0	-----	-----	15.0	11.8	19.7	31.4	14.8	16.2	53.5
Rural, 1910—Remainder of county in 1910	15,723	20,509	20,647	29,972	21,996	25,561	20,510	24,982	22,475	18,056	43,808
Same territory in 1900	18,172	20,702	20,558	32,525	21,964	27,964	22,063	23,111	23,784	18,937	43,162
Per cent of increase, 1900-1910	-13.5	-0.9	0.4	-7.8	0.1	-8.6	-7.0	8.1	-5.5	-4.7	1.6
Urban, 1900—Places of 2,500 or more in 1900	8,544	3,155	-----	-----	22,325	12,976	12,248	17,870	17,379	5,688	51,585
Rural, 1900—Remainder of county in 1900	18,172	20,702	20,558	32,525	21,964	27,964	22,063	23,111	23,784	18,937	43,162
Per cent in places of 2,500 or more, 1910	32.3	13.4	-----	-----	53.9	36.2	41.7	48.5	47.0	26.8	64.4
Per cent in places of 2,500 or more, 1900	29.2	13.3	-----	-----	50.4	31.7	35.7	43.6	42.2	23.1	54.4
COLOR AND NATIVITY											
White	15,006	30,111	23,569	29,946	47,412	37,686	35,021	47,442	42,261	24,432	122,222
Number in 1900	17,413	28,993	23,886	32,467	44,082	38,272	34,112	39,877	40,961	24,327	94,340
Number in 1890	16,659	27,691	23,024	30,125	37,944	36,660	30,415	34,289	40,675	24,250	83,827
Negro	717	192	265	26	253	2,382	146	1,016	157	231	752
Number in 1900	798	250	327	58	204	2,653	196	1,101	198	298	391
Number in 1890	823	174	394	62	128	2,892	198	1,083	193	456	383
Black	351	47	83	25	188	1,458	83	685	55	220	563
Mulatto	336	145	182	1	65	924	63	331	102	11	189
Ind., Chi., and Jap. (see Tables 1 and 16)	-----	4	-----	-----	2	1	4	5	3	-----	13
Native white—Native parentage	13,824	22,039	21,257	23,529	36,518	32,956	23,714	40,649	32,233	19,619	77,986
Number in 1900	15,763	21,559	20,632	24,606	34,147	32,003	21,835	31,839	29,249	18,388	58,767
Native white—Foreign or mixed parentage	962	5,257	1,841	5,327	6,984	3,844	8,343	5,321	7,634	4,055	27,019
Number in 1900	1,335	6,280	2,166	6,287	7,160	4,889	9,036	6,501	8,882	4,767	24,751
Native white—Foreign parentage	504	3,104	941	2,568	4,407	2,256	4,734	3,095	4,355	2,403	16,536
Native white—Mixed parentage	398	2,153	900	2,759	2,577	1,588	3,609	2,226	3,279	1,652	10,483
Foreign-born white	220	2,815	471	1,090	3,910	886	2,964	1,472	2,394	758	17,217
Number in 1900	317	2,584	628	1,674	2,776	1,580	5,241	1,737	2,880	1,172	10,338
PER CENT OF TOTAL POPULATION.											
Native white—Native parentage	87.9	72.7	89.2	78.5	76.6	82.2	67.4	83.9	76.0	79.5	63.4
Per cent in 1900	86.7	75.0	86.3	75.7	77.1	78.2	65.6	77.7	71.1	74.7	62.0
Native white—Foreign or mixed parentage	6.1	17.3	7.7	17.8	14.7	9.6	23.7	11.0	18.0	16.4	22.0
Per cent in 1900	7.3	16.0	9.1	19.3	16.2	11.9	26.3	15.4	21.5	19.4	26.1
Foreign-born white	1.4	9.3	2.0	3.6	8.2	2.2	8.4	3.0	5.6	3.1	14.0
Per cent in 1900	1.7	8.2	2.6	4.8	6.3	3.4	9.4	4.2	7.0	4.8	11.4
Negro	4.6	0.6	1.1	0.1	0.5	5.9	0.4	2.1	0.4	0.9	0.6
Per cent in 1900	4.2	0.9	1.4	0.2	0.5	6.5	0.6	2.7	0.5	1.2	0.4
FOREIGN NATIONALITIES											
FOREIGN-BORN WHITE: Born in—											
Austria	-----	161	5	44	149	2	70	46	35	7	1,143
Belgium	2	11	-----	30	3	1	7	3	71	3	23
Canada—French	-----	12	-----	1	14	3	12	4	9	-----	24
Canada—Other	3	119	9	20	114	13	106	32	109	17	305
Denmark	-----	18	-----	5	2	8	3	3	3	-----	86
England	4	365	21	25	236	62	282	101	118	21	1,309
Finland	-----	54	-----	2	2	-----	-----	-----	1	-----	14
France	3	24	1	38	31	4	36	46	59	51	412
Germany	130	584	317	657	1,307	627	1,735	770	1,400	508	4,669
Greece	33	25	-----	49	4	4	3	134	13	-----	373
Holland	-----	25	-----	10	3	1	2	2	8	2	27
Hungary	-----	70	-----	1	3	10	105	18	20	-----	2,591
Ireland	9	180	93	34	159	99	146	88	122	68	508
Italy	30	564	5	-----	157	24	201	122	171	14	1,726
Roumania	-----	84	-----	1	6	-----	-----	-----	3	-----	766
Russia	-----	111	5	9	95	5	45	7	14	8	732
Scotland	1	70	5	13	64	14	26	11	16	13	292
Sweden	2	36	-----	4	8	1	17	12	47	6	113
Switzerland	1	69	6	131	136	2	83	21	101	17	1,174
Turkey in Asia	1	7	-----	7	1	-----	-----	-----	13	-----	55
Turkey in Europe	-----	4	-----	-----	26	2	24	5	11	-----	117
Wales	-----	207	-----	60	7	3	13	19	1	2	661
Other foreign countries	1	15	1	3	19	7	17	11	51	21	67
NATIVE WHITE: Both parents born in—											
Austria	-----	113	2	27	54	7	21	8	14	2	322
Canada—French	-----	11	-----	1	9	-----	13	2	9	1	7
Canada—Other	1	37	-----	11	16	4	24	4	37	5	68
England	8	282	13	44	272	70	205	93	93	32	1,033
France	5	28	3	74	16	8	47	108	51	161	756
Germany	493	1,219	600	1,832	2,562	1,738	3,429	2,249	3,229	1,811	7,951
Holland	2	9	-----	10	5	1	1	-----	8	4	19
Hungary	-----	28	1	373	1	1	7	6	21	-----	357
Ireland	20	330	265	89	402	303	434	308	304	194	935
Italy	1	204	3	-----	45	16	29	19	10	17	628
Russia	-----	35	-----	3	42	6	18	2	-----	-----	397
Scotland	3	80	4	6	49	14	18	13	20	13	260
Sweden	3	29	1	2	4	-----	7	9	21	5	65
Switzerland	3	54	4	133	168	4	98	39	82	12	1,169
Wales	4	346	3	140	8	3	12	41	12	5	690
All others of foreign parentage	21	319	42	195	382	81	371	194	437	141	1,909

1 Native whites having both parents born in countries other than specified, and also those having both parents of foreign birth but born in different countries.

STATISTICS OF POPULATION.

POPULATION FOR THE STATE AND FOR COUNTIES—Continued.

SUBJECT.	Pike.	Portage.	Preble.	Putnam.	Richland.	Ross.	San- dusky.	Scioto.	Seneca.	Shelby.	Stark.
SEX											
Total.. Male.....	8,263	15,506	12,003	15,199	24,192	20,041	17,785	24,744	21,399	12,522	64,132
Female.....	7,460	14,801	11,831	14,773	23,475	20,028	17,386	23,719	21,022	12,141	58,555
White.. Male.....	7,828	15,402	11,854	15,187	24,006	18,810	17,711	24,136	21,314	12,408	63,703
Female.....	7,178	14,709	11,715	14,759	23,406	18,876	17,310	23,306	20,947	12,024	58,519
Negro.. Male.....	435	100	149	12	184	1,230	72	603	82	114	416
Female.....	282	92	116	14	69	1,152	74	413	75	117	336
MALES OF VOTING AGE											
Total number.....	4,460	9,789	7,489	8,159	15,045	11,526	10,873	13,791	13,151	7,230	40,273
Number in 1900.....	4,715	8,261	7,563	8,496	15,255	11,372	10,180	11,026	12,053	6,889	27,253
Native white—Native parentage.....	3,602	6,409	6,367	5,473	10,726	8,768	6,373	10,324	8,905	5,034	22,056
Number in 1900.....	3,763	6,212	6,089	5,452	10,536	8,121	5,745	7,593	7,645	4,422	15,134
Native white—Foreign or mixed parentage.....	466	1,715	761	2,099	2,394	1,632	2,895	2,182	2,942	1,730	7,935
Number in 1900.....	580	1,667	816	2,193	2,270	1,817	2,644	2,191	2,339	1,765	6,642
Native white—Foreign parentage.....	295	1,053	431	1,204	1,570	1,047	1,900	1,432	1,852	1,115	5,128
Native white—Mixed parentage.....	171	662	330	895	824	585	995	750	1,090	615	2,807
Foreign-born white.....	128	1,601	254	578	1,784	437	1,557	865	1,244	403	9,970
Number in 1900.....	177	1,286	346	825	1,367	693	1,666	919	1,411	626	5,431
Negro.....	60	107	9	9	139	688	51	415	59	63	301
Number in 1900.....	264	84	112	26	79	737	74	321	64	76	140
Indian, Chinese, and Japanese.....	194	4			2	1	2	5	1		11
PER CENT OF TOTAL.											
Native white—Native parentage.....	80.8	65.5	85.0	67.1	71.3	76.1	58.6	74.9	67.7	69.6	54.8
Native white—Foreign or mixed parentage.....	10.4	17.5	10.2	25.7	15.9	14.2	26.6	15.8	22.4	23.9	19.7
Foreign-born white.....	2.9	16.4	3.4	7.1	11.9	3.8	14.3	6.3	9.5	5.6	24.8
Negro.....	5.9	0.6	1.4	0.1	0.9	6.0	0.5	3.0	0.4	0.9	0.7
CITIZENSHIP OF FOREIGN-BORN WHITE.											
Naturalized.....	57	626	197	332	943	274	1,111	446	851	250	3,961
Having first papers.....	1	48	11	7	97	29	31	21	38	3	374
Alien.....	42	479	16	32	534	8	294	255	202	16	4,364
Unknown.....	28	448	30	207	210	126	121	143	153	128	1,271
ILLITERACY											
ILLITERATE MALES OF VOTING AGE.											
Total number illiterate.....	476	421	198	259	248	853	273	1,065	256	218	1,598
Per cent illiterate.....	10.7	4.3	2.6	3.2	1.6	7.4	2.5	7.7	1.9	4.0	4.0
Per cent in 1900.....	14.9	2.9	4.6	5.1	1.8	9.4	5.0	8.8	2.4	3.3	8.0
Native white, number illiterate.....	404	66	159	215	108	734	120	908	127	171	195
Per cent illiterate.....	9.9	0.8	2.2	2.8	0.8	7.1	1.3	7.3	1.1	2.5	0.7
Foreign-born white, number illiterate.....	15	353	21	44	134	26	152	83	122	40	1,378
Per cent illiterate.....	11.7	22.0	8.3	7.6	7.5	5.9	9.8	9.6	9.8	9.9	13.8
Negro, number illiterate.....	57	2	18	5	5	93	1	74	7	7	22
Per cent illiterate.....	21.6		16.8		3.6	13.5		17.8			7.3
PERSONS 10 YEARS OLD AND OVER.											
Total number.....	11,979	24,959	19,531	22,843	39,321	31,807	28,537	37,684	34,784	19,566	100,590
Number illiterate.....	969	657	407	522	508	1,723	568	2,209	518	456	2,710
Per cent illiterate.....	8.1	2.6	2.1	2.3	1.3	5.4	2.0	5.9	1.5	2.3	2.7
Native white, number.....	11,210	22,042	18,842	21,744	35,399	29,064	25,493	35,322	32,279	18,623	83,144
Number illiterate.....	823	140	335	415	242	1,432	276	1,943	289	348	496
Per cent illiterate.....	7.3	0.6	1.8	1.9	0.7	4.9	1.1	5.5	0.9	1.9	0.6
Foreign-born white, number.....	220	2,754	464	1,077	3,681	882	2,921	1,465	2,366	749	16,803
Number illiterate.....	29	509	42	104	256	69	285	129	215	96	2,176
Per cent illiterate.....	13.2	18.5	9.1	9.7	7.0	7.8	9.8	8.8	9.1	12.8	13.0
Negro, number.....	549	159	225	22	239	1,860	119	892	136	194	630
Number illiterate.....	117	8	30	3	9	222	7	137	14	12	34
Per cent illiterate.....	21.3	5.0	13.3		3.8	11.9	5.9	15.4	10.3	6.2	5.4
PERSONS 10 TO 20 YEARS, INCLUSIVE.											
Total number.....	3,646	5,699	4,597	6,985	9,434	8,573	7,081	10,838	8,517	5,352	24,301
Number illiterate.....	91	49	4	25	36	126	30	239	32	22	215
Per cent illiterate.....	2.5	0.9	0.1	0.4	0.4	1.5	0.4	2.2	0.4	0.4	0.9
SCHOOL AGE AND ATTENDANCE											
Total number 6 to 20 years, inclusive.....	5,093	7,807	6,274	9,730	12,648	11,742	9,634	14,851	11,450	7,396	32,902
Number attending school.....	3,496	5,423	4,690	6,896	8,636	7,686	6,639	9,391	8,019	5,188	20,320
Per cent attending school.....	68.6	69.5	74.8	70.9	68.3	65.5	68.9	63.2	70.0	70.1	61.8
Number 6 to 9 years.....	1,447	2,108	1,677	2,745	3,214	3,169	2,553	4,013	2,633	2,044	8,601
Number attending school.....	1,132	1,781	1,535	2,424	2,889	2,464	2,240	3,283	2,647	1,834	6,772
Number 10 to 14 years.....	1,733	2,508	2,164	3,298	4,027	3,901	3,125	4,798	3,796	2,425	10,411
Number attending school.....	1,617	2,387	2,107	3,171	3,825	3,659	2,990	4,435	3,638	2,302	9,741
Number 15 to 17 years.....	982	1,632	1,237	1,942	2,588	2,443	1,940	2,909	2,394	1,481	6,567
Number attending school.....	588	1,015	830	1,050	1,400	1,261	1,115	1,538	1,396	827	3,081
Number 18 to 20 years.....	931	1,559	1,196	1,745	2,819	2,229	2,016	3,131	2,327	1,443	7,323
Number attending school.....	159	240	218	251	522	302	294	335	328	225	726
PERSONS 6 TO 14 YEARS, INCLUSIVE.											
Total number.....	3,180	4,616	3,841	6,043	7,241	7,070	5,678	8,811	6,729	4,472	19,012
Number attending school.....	2,749	4,168	3,642	5,595	6,714	6,123	5,230	7,718	6,285	4,136	18,513
Per cent attending school.....	86.4	90.3	94.8	92.6	92.7	86.6	92.1	87.6	93.4	92.5	86.9
Native white—Native parentage, number.....	3,010	3,759	3,658	5,471	6,142	6,425	4,621	8,380	5,990	4,166	14,156
Number attending school.....	2,623	3,410	3,469	5,078	5,732	5,573	4,274	7,334	5,603	3,854	12,445
Per cent attending school.....	87.1	90.7	94.8	92.8	93.3	86.8	92.5	87.5	93.5	92.5	87.9
Native white—Foreign or mixed parentage, number.....	34	748	135	549	754	219	977	285	666	249	4,147
Number attending school.....	25	672	127	500	684	200	889	260	618	230	3,530
Per cent attending school.....	89.8	94.1	91.1	90.7	91.3	91.0	91.2	92.8	92.4	92.4	85.1
Foreign-born white, number.....	2	75	8	17	327	6	58	15	46	7	591
Number attending school.....		57	7	11	280	5	46	10	38	3	440
Per cent attending school.....					85.6						74.5
Negro, number.....	134	34	40	6	18	420	21	131	25	50	118
Number attending school.....	101	29	39	6	18	340	20	114	24	49	98
Per cent attending school.....	75.4					81.0		87.0			83.1
DWELLINGS AND FAMILIES											
Dwellings, number.....	3,484	7,758	6,259	6,691	11,156	9,460	8,635	10,333	10,397	5,859	27,130
Families, number.....	3,515	8,034	6,424	6,781	11,962	9,740	8,925	10,725	10,768	6,008	28,869

TABLE I.—COMPOSITION AND CHARACTERISTICS OF THE

SUBJECT.	Summit.	Trumbull.	Tuscarawas.	Union.	Van Wert.	Vinton.	Warren.	Washington.	Wayne.	Williams.	Wood.	Wyandot.
POPULATION												
Total population, 1910	108,253	52,766	57,035	21,871	29,119	13,096	24,497	45,422	38,058	25,198	46,330	20,760
1900	71,715	46,591	53,751	22,342	30,394	15,330	25,584	48,245	37,870	24,953	51,555	21,125
1890	54,089	42,373	46,613	22,860	29,671	16,045	25,468	42,380	39,005	24,897	44,392	21,722
1880	43,788	44,890	40,198	22,375	23,028	17,223	28,392	43,244	40,076	23,821	34,022	22,305
1870	34,674	38,659	33,840	18,730	15,823	15,027	26,689	40,609	35,116	20,991	24,596	18,533
Increase, 1900-1910	36,538	6,175	3,284	-471	-1,275	-2,234	-1,087	-2,823	188	245	-5,225	-365
Per cent of increase	50.9	13.3	6.1	-2.1	-4.2	-14.6	-4.2	-5.9	0.5	1.0	-10.1	-1.7
Increase, 1890-1900	17,626	4,218	7,133	-518	723	-715	116	5,865	-1,135	56	7,163	-597
Per cent of increase	32.6	10.0	15.3	-2.3	2.4	-4.5	0.5	13.8	-2.9	0.2	16.1	-2.7
Land area (square miles)	408	633	555	446	406	412	413	630	557	411	612	406
Population per square mile, 1910	265.3	83.4	102.8	49.0	71.7	31.8	59.3	72.1	68.3	61.3	75.7	51.1
Rural population per square mile, 1910	63.1	46.7	54.4	41.0	48.0	31.8	46.3	51.6	51.7	45.7	63.1	41.8
URBAN AND RURAL TERRITORY.												
Urban, 1910—Places of 2,500 or more in 1910	82,497	23,178	26,865	3,576	9,639	.....	5,357	12,923	9,237	6,400	7,725	3,779
Same places in 1900	50,268	18,627	22,639	3,048	8,650	.....	5,591	13,348	7,964	5,000	8,623	3,955
Per cent of increase, 1900-1910	64.1	24.4	18.7	17.3	11.4	.....	-4.2	-3.2	16.0	28.0	-10.5	12.6
Rural, 1910—Remainder of county in 1910	25,756	29,588	30,170	18,295	19,480	13,096	19,140	32,499	28,821	18,798	38,605	16,981
Same territory in 1900	21,447	27,964	31,112	19,294	21,744	15,330	19,993	34,897	29,906	19,953	42,927	17,770
Per cent of increase, 1900-1910	20.1	5.8	-3.0	-5.2	-10.4	-14.6	-4.3	-6.9	-3.6	-1.9	-10.1	-4.4
Urban, 1900—Places of 2,500 or more in 1900	50,268	18,627	22,639	3,048	8,650	.....	5,591	13,348	6,063	3,131	8,623	3,355
Rural, 1900—Remainder of county in 1900	21,447	27,964	31,112	19,294	21,744	15,330	19,993	34,897	31,807	21,822	42,927	17,770
Per cent in places of 2,500 or more, 1910	76.2	43.9	47.1	16.4	33.1	.....	21.9	28.5	24.3	25.4	18.7	18.2
Per cent in places of 2,500 or more, 1900	70.1	40.0	42.1	13.6	28.5	.....	21.9	27.7	16.0	12.5	16.7	15.9
COLOR AND NATIVITY												
White	107,480	52,555	56,831	21,607	28,792	12,883	23,768	44,041	37,983	25,193	46,180	20,736
Number in 1900	71,126	46,542	53,480	21,968	29,983	15,239	24,635	46,644	37,800	24,899	51,414	21,059
Number in 1890	53,535	42,176	46,408	22,413	29,214	15,842	24,535	40,947	38,940	24,862	44,199	21,638
Negro	757	208	194	264	327	213	720	1,378	70	5	150	21
Number in 1900	586	247	264	384	411	91	948	1,679	69	54	137	63
Number in 1890	551	195	207	442	447	203	926	1,412	63	35	187	82
Black	579	121	140	183	189	16	402	546	70	1	85	10
Mulatto	178	87	54	81	138	197	327	832	.....	4	65	11
Ind., Chi., and Jap. (see Tables 1 and 16)	16	3	10	.....	.....	.....	.....	.....	5	.....	.....	3
Native white—Native parentage	62,741	32,718	40,557	19,538	24,728	12,262	21,137	37,474	30,376	20,921	34,504	16,760
Number in 1900	42,077	28,477	37,065	19,444	24,993	14,236	21,202	38,112	29,741	20,142	37,662	16,337
Native white—Foreign or mixed parentage	24,778	12,029	11,001	1,714	3,277	520	1,992	5,420	5,556	3,401	8,478	3,205
Number in 1900	19,025	11,284	11,755	2,018	3,887	830	2,538	6,335	5,939	3,754	10,076	3,654
Native white—Foreign parentage	15,624	7,380	6,140	843	1,782	261	1,152	3,137	2,889	1,610	4,618	1,662
Native white—Mixed parentage	9,154	4,649	4,861	871	1,495	259	840	2,283	2,667	1,791	3,860	1,543
Foreign-born white	19,961	7,808	5,273	355	787	101	639	1,147	2,051	871	3,198	771
Number in 1900	10,024	6,581	4,660	496	1,103	173	895	1,697	2,120	1,003	3,676	1,083
PER CENT OF TOTAL POPULATION.												
Native white—Native parentage	58.0	62.0	71.1	89.3	84.9	93.6	86.3	82.5	79.8	83.0	74.5	80.7
Per cent in 1900	53.7	61.1	69.0	87.0	82.2	92.9	82.9	79.0	78.5	80.7	73.1	77.3
Native white—Foreign or mixed parentage	22.9	22.8	19.3	7.8	11.3	4.0	8.1	11.9	14.6	13.5	18.3	15.4
Per cent in 1900	26.5	24.2	21.9	9.0	12.8	5.4	9.9	14.2	15.7	15.0	19.5	17.3
Foreign-born white	18.4	14.8	9.2	1.6	2.7	0.8	2.6	2.5	5.4	3.5	6.9	3.7
Per cent in 1900	14.0	14.1	8.7	2.2	5.6	1.1	3.5	3.5	5.6	4.0	7.1	5.1
Negro	0.7	0.4	0.3	1.2	1.1	1.6	3.0	3.0	0.2	(¹)	0.3	0.1
Per cent in 1900	0.8	0.5	0.5	1.7	1.4	0.6	3.7	3.3	0.2	0.2	0.3	0.3
FOREIGN NATIONALITIES												
FOREIGN-BORN WHITE: Born in—												
Austria	2,067	359	520	1	6	1	8	9	129	17	325	5
Belgium	18	6	24	.....	.....	.....	1	.....	.....	.....	14	2
Canada—French	86	14	5	2	5	.....	5	6	4	7	53	2
Canada—Other	599	238	32	32	24	8	16	53	49	37	188	16
Denmark	159	8	3	.....	1	.....	3	.....	1	2	7	.....
England	1,929	1,323	587	41	37	19	58	68	135	44	390	45
Finland	34	176	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
France	249	45	33	1	8	.....	5	6	93	116	66	13
Germany	4,055	657	1,090	175	492	32	345	685	477	411	1,432	480
Greece	82	2	20	.....	32	.....	.....	2	4	5	6	15
Holland	36	3	10	.....	2	.....	.....	.....	2	1	1	2
Hungary	5,779	918	332	6	1	.....	4	3	62	1	187	.....
Ireland	894	659	134	53	22	28	131	94	91	20	89	50
Italy	1,052	1,781	901	14	7	1	2	9	232	84	35	15
Roumania	119	231	204	.....	.....	.....	1	5	70	42	.....	.....
Russia	753	127	88	5	1	.....	26	87	38	12	32	4
Scotland	385	292	190	4	3	3	6	51	39	9	45	6
Sweden	390	102	62	2	6	.....	2	8	7	2	17	4
Switzerland	389	59	704	8	20	2	12	13	589	32	135	89
Turkey in Asia	110	9	3	1	1	.....	.....	28	1	19	12	6
Turkey in Europe	51	5	5	1	31	.....	.....	1	8	2	1	6
Wales	404	763	251	7	169	3	5	12	25	2	14	.....
Other foreign countries	321	26	25	1	9	4	9	7	15	6	99	11
NATIVE WHITE: Both parents born in—												
Austria	614	122	309	.....	1	1	.....	9	17	12	132	1
Canada—French	62	6	2	1	.....	1	.....	2	.....	5	48	.....
Canada—Other	170	42	13	6	.....	.....	3	12	16	24	44	9
England	1,230	1,139	363	50	54	15	59	102	96	54	427	45
France	223	64	57	.....	15	.....	4	6	211	208	78	20
Germany	6,318	1,152	2,560	552	1,191	107	661	2,272	1,081	1,045	2,893	1,223
Holland	10	5	8	.....	.....	.....	1	2	2	.....	8	2
Hungary	955	226	.....	9	.....	.....	.....	6	11	.....	14	.....
Ireland	1,764	1,127	330	136	72	104	297	350	162	60	261	98
Italy	446	1,045	356	4	.....	.....	6	131	7	.....	7	.....
Russia	377	40	39	3	1	.....	11	27	26	2	8	.....
Scotland	279	247	116	3	6	9	9	163	31	6	103	3
Sweden	324	77	47	.....	6	.....	.....	2	2	.....	7	.....
Switzerland	322	65	1,046	11	13	.....	11	14	751	51	181	128
Wales	523	1,015	280	22	298	8	6	7	38	3	9	5
All others of foreign parentage ²	2,007	1,008	562	39	113	16	90	157	310	138	398	133

¹ Less than one-tenth of 1 per cent.

STATISTICS OF POPULATION.

POPULATION FOR THE STATE AND FOR COUNTIES—Continued.

SUBJECT.	Summit.	Trumbull.	Tuscarawas.	Union.	Van Wert.	Vinton.	Warren.	Washington.	Wayne.	Williams.	Wood.	Wyandot.
SEX												
Total.. Male.....	57,609	27,178	29,273	11,033	14,842	6,753	12,281	22,634	19,188	12,837	23,981	10,566
Female.....	50,644	25,588	27,762	10,838	14,277	6,343	12,216	22,738	18,890	12,861	22,349	10,194
White.. Male.....	57,177	27,065	29,155	10,892	14,676	6,636	11,896	21,929	19,125	12,836	23,904	10,551
Female.....	50,303	25,490	27,676	10,715	14,116	6,247	11,872	22,112	18,858	12,357	22,276	10,185
Negro.. Male.....	417	110	108	141	166	117	385	702	40	1	77	12
Female.....	340	98	86	123	161	96	344	676	30	4	73	9
MALES OF VOTING AGE												
Total number.....	36,930	17,007	17,051	6,666	8,416	3,588	7,625	12,936	11,705	7,870	14,009	6,345
Number in 1900.....	21,806	14,356	15,225	6,489	8,248	4,048	7,889	15,448	10,832	7,392	15,005	6,195
Native white—Native parentage.....	19,137	9,310	10,316	5,689	6,563	3,243	6,270	9,660	8,579	6,002	9,205	4,573
Number in 1900.....	12,215	8,141	9,056	5,368	6,139	3,615	6,262	7,926	7,026	6,428	9,344	4,319
Native white—Foreign or mixed parentage.....	6,567	3,201	3,653	707	1,346	237	765	2,349	1,917	1,369	2,936	1,342
Number in 1900.....	4,533	2,726	3,584	750	1,379	320	874	2,705	1,852	1,366	5,127	1,259
Native white—Foreign parentage.....	4,244	2,172	2,214	407	844	126	492	1,508	1,074	703	1,790	800
Native white—Mixed parentage.....	2,323	1,119	1,439	300	502	111	273	841	843	666	1,146	542
Foreign-born white.....	10,048	4,325	3,022	185	422	52	344	575	1,190	498	1,825	417
Number in 1900.....	4,934	3,399	2,510	259	611	38	472	883	1,103	542	1,971	684
Negro.....	263	78	54	85	85	56	246	350	16	1	43	10
Number in 1900.....	181	88	90	112	119	25	280	402	19	26	59	30
Indian, Chinese, and Japanese.....	15	3	6					2	3			3
PER CENT OF TOTAL.												
Native white—Native parentage.....	51.8	54.7	60.5	85.3	78.0	90.4	82.2	74.7	73.3	76.3	65.7	72.1
Native white—Foreign or mixed parentage.....	17.8	19.4	21.4	10.6	16.0	6.6	10.0	18.2	16.4	17.4	21.0	21.2
Foreign-born white.....	29.6	25.4	17.7	2.8	5.0	1.4	4.5	4.4	10.2	6.3	13.0	6.6
Negro.....	0.7	0.5	0.3	1.3	1.0	1.6	3.2	2.7	0.1	(1)	0.3	0.2
CITIZENSHIP OF FOREIGN-BORN WHITE.												
Naturalized.....	3,340	1,653	1,265	99	252	27	264	320	624	204	982	352
Having first papers.....	447	122	186	3	4	4	13	15	21	5	42	2
Alien.....	5,233	1,791	1,082	12	34	4	31	30	32	96	444	34
Unknown.....	1,928	759	489	71	132	17	36	210	223	193	357	29
ILLITERACY												
ILLITERATE MALES OF VOTING AGE.												
Total number illiterate.....	1,530	1,664	637	160	213	300	186	581	214	137	437	142
Per cent illiterate.....	4.1	9.8	3.7	2.4	2.5	8.4	2.4	4.5	1.8	1.7	3.1	2.2
Per cent in 1900.....	2.6	6.9	4.2	4.4	4.1	13.1	4.3	6.1	1.7	2.4	5.9	3.1
Native white, number illiterate.....	154	130	332	144	173	282	141	491	105	96	280	128
Per cent illiterate.....	0.6	1.0	2.4	2.3	2.2	8.1	2.0	4.1	1.0	1.3	2.3	2.2
Foreign-born white, number illiterate.....	1,345	1,522	290	11	27	4	20	37	105	41	151	13
Per cent illiterate.....	12.3	35.2	9.6	5.9	6.4	.....	5.8	6.4	8.8	8.2	8.3	3.1
Negro, number illiterate.....	29	12	15	5	13	14	25	53	4	.....	6	1
Per cent illiterate.....	11.0	.....	.....	.....	.....	.....	10.2	15.1	.....	.....	.....	.....
PERSONS 10 YEARS OLD AND OVER.												
Total number.....	88,280	43,043	44,892	17,589	22,976	9,922	19,991	36,403	31,039	20,434	36,592	16,601
Number illiterate.....	2,672	2,685	1,254	311	440	566	374	1,148	451	256	820	260
Per cent illiterate.....	3.0	6.2	2.8	1.8	1.9	5.7	1.9	3.2	1.5	1.3	2.2	1.6
Native white, number.....	68,447	35,240	39,629	17,020	21,935	9,672	18,756	34,201	28,961	19,571	33,327	15,808
Number illiterate.....	374	274	716	264	342	533	268	932	245	193	527	225
Per cent illiterate.....	0.5	0.8	1.8	1.6	1.6	5.5	1.4	2.7	0.8	1.0	1.6	1.4
Foreign-born white, number.....	19,188	7,624	5,108	352	780	99	634	1,126	2,022	859	3,157	771
Number illiterate.....	2,242	2,393	513	36	67	13	37	93	199	62	280	34
Per cent illiterate.....	11.7	31.4	10.0	10.2	8.6	.....	5.8	8.3	9.8	7.2	8.9	4.4
Negro, number.....	629	176	145	217	261	151	601	1,073	51	4	108	19
Number illiterate.....	54	18	25	11	31	20	69	123	7	1	13	1
Per cent illiterate.....	8.6	10.2	17.2	5.1	11.9	13.2	11.5	11.5	.....	.....	12.0	.....
PERSONS 10 TO 20 YEARS, INCLUSIVE.												
Total number.....	20,697	10,371	12,066	4,351	6,456	2,952	4,723	10,025	7,570	5,081	10,001	4,229
Number illiterate.....	209	244	42	13	14	50	16	85	22	12	34	9
Per cent illiterate.....	1.0	2.4	0.3	0.3	0.2	1.7	0.3	0.8	0.3	0.2	0.3	0.2
SCHOOL AGE AND ATTENDANCE												
Total number 6 to 20 years, inclusive.....	27,754	14,128	16,771	5,995	8,827	4,213	6,537	13,538	10,305	6,954	13,842	5,875
Number attending school.....	17,048	9,366	11,309	4,221	5,873	3,063	4,826	9,502	7,339	4,996	10,346	4,309
Per cent attending school.....	61.4	66.3	67.4	70.4	66.5	72.7	73.8	69.9	71.2	71.8	74.7	73.3
Number 6 to 9 years.....	7,057	3,757	4,705	1,644	2,371	1,261	1,814	3,563	2,735	1,873	3,841	1,646
Number attending school.....	6,037	2,950	3,728	1,319	1,758	1,073	1,600	2,905	2,162	1,652	3,473	1,387
Number 10 to 14 years.....	8,453	4,645	5,566	2,029	2,913	1,395	2,190	4,683	3,370	2,283	4,668	1,967
Number attending school.....	7,943	4,377	5,286	1,950	2,717	1,324	2,139	4,471	3,191	2,198	4,547	1,873
Number 15 to 17 years.....	5,493	2,839	3,306	1,122	1,716	834	1,301	2,751	2,151	1,345	2,739	1,157
Number attending school.....	2,400	1,603	1,881	754	1,074	534	852	1,047	1,466	892	1,840	821
Number 18 to 20 years.....	6,751	2,887	3,194	1,200	1,827	723	1,232	2,591	2,049	1,453	2,594	1,105
Number attending school.....	668	436	414	198	324	132	235	479	417	254	486	228
PERSONS 6 TO 14 YEARS, INCLUSIVE.												
Total number.....	15,510	8,402	10,271	3,673	5,284	2,656	4,004	8,246	6,105	4,156	8,509	3,613
Number attending school.....	13,980	7,327	9,014	3,269	4,475	2,397	3,739	7,376	5,456	3,850	8,020	3,260
Per cent attending school.....	90.1	87.2	87.8	89.0	84.7	90.2	93.4	89.4	89.4	92.6	94.3	90.2
Native white—Native parentage, number.....	10,147	5,956	8,469	3,493	4,941	2,591	3,706	7,600	5,311	3,874	7,209	3,354
Number attending school.....	9,188	5,235	7,438	3,105	4,202	2,346	3,455	6,858	4,755	3,584	6,808	3,020
Per cent attending school.....	90.5	87.9	87.8	88.9	85.0	90.5	93.2	89.5	89.5	92.5	94.4	90.2
Native white—Foreign or mixed parentage, number.....	4,292	2,104	1,547	130	265	12	172	244	731	267	1,214	257
Number attending school.....	3,882	1,870	1,370	123	225	11	166	220	654	252	1,142	232
Per cent attending school.....	90.4	86.4	88.6	94.6	84.9	.....	96.5	90.2	89.5	94.4	94.1	90.3
Foreign-born white, number.....	947	247	215	5	18	2	8	34	46	15	64	1
Number attending school.....	806	193	170	4	11	1	7	33	32	14	51	1
Per cent attending school.....	85.1	78.1	79.1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Negro, number.....	123	35	39	45	60	51	118	308	17	.....	22	1
Number attending school.....	103	29	35	37	37	39	111	265	15	.....	19	1
Per cent attending school.....	83.7	.....	.....	.....	.....	.....	94.1	86.0	.....	.....	.....	.....
DWELLINGS AND FAMILIES												
Dwellings, number.....	22,601	12,487	13,250	5,620	6,947	3,000	6,154	10,741	9,359	6,547	11,446	5,171
Families, number.....	25,067	12,901	13,563	5,729	7,099	3,029	6,429	11,068	9,687	6,675	11,515	5,247

² Native whites having both parents born in countries other than specified, and also those having both parents of foreign birth but born in different countries.

TABLE II.—COMPOSITION AND CHARACTERISTICS OF THE

[Per cent not shown where base is less than 100.]

SUBJECT.	TOTAL, CITIES NAMED.	Akron. ¹	Canton. ¹	Cincinnati. ¹	Cleveland. ¹	Columbus. ¹	Dayton. ¹	Hamilton. ¹	Lima. ¹	Lorain.	Newark. ¹	Springfield. ¹	Toledo.	Youngstown. ¹	Zanesville. ¹
POPULATION															
Total population, 1910.....	1,784,210	69,067	50,217	363,591	560,663	181,511	116,577	35,279	30,508	28,883	25,404	46,921	168,497	79,066	28,026
1900.....	1,310,278	42,728	30,667	325,902	381,768	125,560	85,333	23,914	21,723	16,028	18,157	38,253	131,822	44,835	23,538
1890.....	981,658	27,601	26,189	296,908	261,353	83,150	61,220	17,565	15,981	4,863	14,270	31,895	81,434	33,220	21,009
1880.....	669,679	16,512	12,258	255,139	160,146	51,647	38,678	12,122	7,567	1,595	9,600	20,730	50,137	15,435	18,113
1870.....	474,082	10,006	8,600	216,239	92,829	31,274	30,473	11,081	4,500		6,698	12,652	31,584	8,075	10,011
Increase, 1900-1910.....	473,932	26,339	19,550	37,689	178,895	55,951	31,244	11,365	8,785	12,855	7,247	8,668	36,675	34,181	4,488
Per cent of increase.....	36.2	61.6	63.7	11.6	46.9	44.6	36.6	47.5	40.4	80.2	39.9	22.7	27.8	76.2	19.1
Increase, 1890-1900.....	328,620	15,127	4,478	28,994	120,415	37,410	24,113	6,349	5,742	11,165	3,887	6,358	50,388	11,665	2,529
Per cent of increase.....	33.5	54.8	17.1	9.8	46.1	42.4	39.4	36.1	35.9	229.6	27.2	19.9	61.9	35.1	12.0
COLOR AND NATIVITY															
White.....	1,724,491	68,404	49,916	343,919	551,925	168,709	111,707	34,546	29,524	28,506	25,051	41,976	166,567	77,109	26,632
Number in 1900.....	1,267,681	42,201	30,525	311,404	375,664	117,335	81,933	23,565	20,984	16,668	17,851	33,997	150,079	45,960	22,525
Number in 1890.....	961,067	27,149	26,080	285,224	258,318	82,603	59,054	17,270	16,423	4,670	13,842	28,343	80,349	32,571	20,071
Negro.....	59,170	657	291	19,639	8,448	12,739	4,842	725	978	375	346	4,933	1,877	1,936	1,384
Number in 1900.....	42,345	525	135	14,482	5,988	8,201	3,587	347	731	359	326	4,253	1,710	916	1,012
Number in 1890.....	30,460	451	107	11,655	2,989	5,525	2,168	294	553	191	326	3,549	1,077	643	857
Black.....	40,191	530	245	13,834	5,944	8,503	3,607	453	737	110	235	2,317	1,265	1,514	897
Mulatto.....	18,979	127	46	5,805	2,504	4,236	1,235	272	241	265	111	2,616	612	422	487
Indian.....	86			9	48	11						1	1	4	8
Chinese.....	424	5	9	17	228	45	26					9	1	17	2
Japanese.....	39	1	1	7	14	7	2					2			
Native white—Native parentage.....	768,741	37,793	29,470	154,937	132,314	116,846	72,301	21,866	23,465	8,455	19,000	30,577	75,147	25,595	20,885
Number in 1900.....	515,479	21,859	17,899	115,700	87,740	75,036	48,332	12,377	15,399	5,839	12,907	22,166	52,222	15,363	16,656
Native white—Foreign or mixed par.....	571,680	17,370	11,798	132,190	223,908	35,578	25,569	9,371	4,445	9,122	3,914	8,243	59,333	26,654	4,145
Number in 1900.....	481,406	15,225	8,614	139,817	163,570	30,007	23,567	8,241	4,141	6,102	5,615	6,529	50,128	18,415	4,435
Native white—Foreign parentage.....	403,183	11,171	7,328	88,894	171,567	21,708	16,762	6,210	2,521	7,061	2,304	5,134	40,845	19,201	2,437
Native white—Mixed parentage.....	168,497	6,199	4,470	43,296	52,341	13,810	8,797	3,161	1,924	2,061	1,610	3,129	18,538	7,453	1,708
Foreign-born white.....	384,070	13,241	8,648	56,792	195,703	16,285	13,847	3,309	1,614	10,929	2,047	3,156	32,037	24,800	1,602
Number in 1900.....	270,796	7,117	4,012	57,887	124,354	12,292	10,024	2,947	1,444	4,727	1,335	3,302	27,729	12,192	1,434
PER CENT OF TOTAL POPULATION.															
Native white—Native parentage.....	43.1	54.7	58.7	42.6	23.6	64.4	62.0	62.0	76.9	29.3	75.1	65.2	44.6	32.4	74.5
Per cent in 1900.....	39.3	51.2	58.4	34.9	23.0	59.8	56.6	51.8	70.9	32.1	71.1	67.9	39.6	29.7	70.8
Native white—Foreign or mixed par.....	32.0	25.1	23.5	36.4	39.9	19.6	21.9	26.6	14.6	31.6	15.4	17.6	35.2	33.7	14.8
Per cent in 1900.....	36.7	31.0	28.1	42.9	42.8	23.9	27.6	34.5	19.1	31.8	19.9	22.3	38.0	41.0	18.8
Foreign-born white.....	21.5	19.2	17.2	15.6	34.9	9.0	11.9	9.4	5.3	37.8	8.1	6.7	19.0	31.4	5.7
Per cent in 1900.....	20.7	16.7	18.1	17.8	32.6	9.8	11.7	12.3	6.6	29.5	7.4	8.6	21.0	27.2	6.1
Negro.....	3.3	1.0	0.6	5.4	1.5	7.0	4.2	2.1	3.2	1.3	1.4	10.5	1.1	2.4	4.9
Per cent in 1900.....	3.2	1.2	0.4	4.4	1.6	6.5	4.0	1.5	8.4	2.2	1.7	11.1	1.3	2.0	4.8
SEX															
Total.. Male.....	907,802	36,604	26,110	177,511	289,262	91,452	58,848	17,825	15,213	16,261	12,988	23,838	84,691	43,640	13,550
Female.....	876,408	32,463	24,107	186,080	271,401	90,059	57,729	17,454	15,295	12,622	12,416	23,083	83,806	35,417	14,476
White.. Male.....	876,714	36,241	25,926	167,581	284,660	84,612	56,347	17,425	14,679	16,066	12,807	21,232	83,705	42,568	12,875
Female.....	847,777	32,163	23,990	176,338	267,265	84,097	55,360	17,121	14,845	12,440	12,244	20,744	82,862	34,551	13,757
Negro.. Male.....	30,599	357	174	9,905	4,341	6,784	2,475	396	528	193	174	2,594	937	1,072	669
Female.....	28,571	300	117	9,734	4,107	5,955	2,367	329	450	182	172	2,339	940	804	719
FOREIGN NATIONALITIES															
FOREIGN-BORN WHITE: Born in—															
Austria.....	54,152	933	504	1,638	42,059	818	660	112	48	2,194	178	80	879	4,005	44
Canada—French.....	1,598	60	18	73	571	79	27	1	9	38	4	8	681	21	8
Canada—Other.....	14,332	414	149	808	8,536	585	365	64	121	256	58	118	2,435	320	43
Denmark.....	1,011	144	74	79	448	40	23	2	1	9	5	19	118	42	7
England.....	21,941	1,366	558	1,872	11,415	1,126	461	92	139	438	118	269	1,662	2,239	156
Finland.....	610	12	2	10	499	6	1	1		1			5	70	2
France.....	2,155	167	169	665	493	150	93	48	14	18	17	12	245	48	16
Germany.....	110,305	3,152	2,313	28,425	41,406	5,722	5,816	2,152	506	1,188	497	1,119	15,308	2,100	601
Greece.....	1,497	64	357	150	275	123	117	42	13	12	13	11	81	134	28
Holland.....	1,628	18	11	322	1,076	40	37	7	6	13	2	19	55	22	
Hungary.....	59,829	3,308	1,559	6,344	31,503	970	2,761	168	9	3,954	595	28	2,927	5,490	213
Ireland.....	26,956	605	192	6,223	11,316	1,809	974	167	357	290	197	829	1,971	1,842	184
Italy.....	21,787	799	980	2,245	10,836	1,619	356	178	158	452	103	173	270	3,604	14
Norway.....	835	105	10	37	612	24	15	4	6	11	1	8	65	37	
Roumania.....	1,775	19	214	454	761	28	32			7	11	4	83	158	4
Russia.....	41,616	590	589	4,989	25,477	1,528	1,526	98	51	1,451	23	103	3,340	1,691	150
Scotland.....	5,758	278	97	458	2,879	274	140	51	34	265	22	80	328	819	33
Sweden.....	3,193	336	62	114	1,657	104	42	12	17	104	20	16	140	567	2
Switzerland.....	4,368	275	420	696	1,373	339	118	91	65	49	15	67	744	109	7
Turkey in Asia.....	1,466	103	31	245	497	71	45	4	10	12	4	10	176	218	40
Turkey in Europe.....	1,226	47	113	280	251	60	170		3	38	50	98	67	35	14
Wales.....	3,991	251	199	177	1,297	534	18	6	41	101	79	18	61	1,181	28
Other foreign countries.....	2,041	165	27	388	566	236	50	9	6	28	29	25	396	108	8
NATIVE WHITE: Both parents born in—															
Austria.....	35,900	259	176	635	31,274	241	193	33	11	1,113	32	44	415	1,392	32
Canada—French.....	1,334	49	3	27	394	110	17	3	8	51	4	7	649	9	3
Canada—Other.....	3,611	124	24	157	2,152	136	77	16	31	81	12	19	718	52	12
Denmark.....	563	82	72	31	233	10	11	1	1	8	8	7	81	16	2
England.....	15,109	853	388	1,536	7,142	881	368	120	72	327	120	184	1,275	1,696	147
France.....	2,297	148	245	676	436	154	137	66	27						

STATISTICS OF POPULATION.

POPULATION FOR CITIES OF 25,000 OR MORE.

[Per cent not shown where base is less than 100.]

SUBJECT.	TOTAL, CITIES NAMED.	Akron. ¹	Canton. ¹	Cincinnati. ¹	Cleveland. ¹	Columbus. ¹	Dayton. ¹	Hamilton. ¹	Lima. ¹	Lorain. ¹	Newark. ¹	Springfield. ¹	Toledo. ¹	Youngstown. ¹	Zanesville. ¹
MALES OF VOTING AGE															
Total number	574,883	23,767	16,874	113,919	177,386	60,892	38,236	10,956	9,376	10,177	8,336	15,361	52,748	28,157	8,698
Number in 1900.....	386,044	12,620	8,818	92,799	111,522	40,071	26,746	7,148	6,459	6,825	6,451	11,780	38,257	13,691	6,357
Native white—Native parentage	216,557	11,931	8,548	37,419	36,358	36,090	21,281	5,907	6,832	2,393	5,618	9,193	21,209	7,795	5,983
Number in 1900.....	135,212	6,280	4,671	22,314	23,637	23,280	12,982	3,002	4,271	1,874	3,664	6,367	13,919	3,682	4,407
Native white—Foreign or mixed par.	144,151	4,541	3,178	42,366	43,058	11,244	7,843	3,046	1,391	1,445	1,358	2,760	14,955	5,533	1,428
Number in 1900.....	111,739	2,856	2,164	38,628	28,441	8,833	6,828	2,568	1,198	1,065	1,150	2,398	10,859	3,305	1,453
Native white—Foreign parentage	105,550	3,046	2,058	30,847	33,777	7,404	5,494	2,250	875	1,085	867	1,904	10,918	4,146	879
Native white—Mixed parentage	38,601	1,495	1,120	11,519	9,281	3,840	2,354	796	516	360	491	856	4,037	1,387	549
Foreign-born white	191,352	7,051	5,010	26,723	94,431	8,487	7,303	1,703	818	6,216	1,236	1,662	15,826	14,027	859
Number in 1900.....	126,893	3,330	1,943	26,723	56,073	5,980	4,790	1,440	752	2,752	634	1,046	12,843	6,267	690
Negro	22,338	238	129	7,387	3,298	5,028	1,781	297	329	121	117	1,735	719	785	424
Number in 1900.....	14,880	163	47	4,997	2,368	2,955	1,124	136	230	133	98	1,563	606	349	326
Indian, Chinese, and Japanese	435	6	9	24	241	43	23	3	6	2	7	11	39	17	4
PER CENT OF TOTAL.															
Native white—Native parentage	37.7	50.2	50.7	32.8	20.5	59.3	55.7	53.9	72.9	23.5	67.4	59.8	40.2	27.7	68.8
Native white—Foreign or mixed par.	25.1	19.1	18.8	37.2	24.3	18.5	20.5	27.8	14.8	14.2	16.3	18.0	28.4	19.7	16.4
Foreign-born white	33.3	29.7	29.7	23.5	53.2	13.9	19.1	15.5	8.7	61.1	14.8	10.8	30.0	49.8	9.9
Negro	3.9	1.0	0.8	6.5	1.9	8.3	4.7	2.7	3.5	1.2	1.4	11.3	1.4	2.8	4.9
CITIZENSHIP OF FOREIGN-BORN WHITE.															
Naturalized	87,745	2,459	2,005	17,253	40,482	4,453	3,451	1,042	470	1,496	350	916	8,752	4,268	348
Having first papers.....	12,945	317	203	1,733	7,826	414	396	78	24	459	45	38	724	661	27
Alien	74,453	3,198	2,575	6,250	40,221	2,349	2,964	339	117	3,618	536	249	4,308	7,543	286
Unknown	16,209	1,077	227	1,487	5,902	1,271	492	244	207	743	305	459	2,042	1,555	198
ILLITERACY															
ILLITERATE MALES OF VOTING AGE.															
Total number illiterate	24,486	933	856	3,962	9,418	2,063	1,069	181	186	709	137	400	1,802	2,532	238
Per cent illiterate.....	4.3	3.9	5.1	3.5	5.3	3.4	2.8	1.7	2.0	7.0	1.6	2.6	3.4	9.0	2.7
Per cent in 1900.....	4.1	2.3	1.9	3.4	5.2	3.5	2.6	1.8	2.5	5.6	3.0	4.6	4.2	10.5	2.6
Native white, number illiterate	2,359	54	38	674	191	472	163	77	107	9	32	73	349	40	80
Per cent illiterate.....	0.7	0.3	0.3	0.8	0.2	1.0	0.6	0.9	1.3	0.2	0.5	0.6	1.0	0.3	1.1
Foreign-born white, number illiterate	19,688	850	813	2,103	9,047	1,124	704	75	55	696	94	160	1,419	2,437	111
Per cent illiterate.....	10.3	12.1	16.2	7.9	9.6	13.2	9.6	4.4	6.7	11.2	7.6	9.6	9.0	17.4	12.9
Negro, number illiterate	2,351	28	3	1,183	125	459	194	29	23	4	9	166	30	52	46
Per cent illiterate.....	10.5	11.8	2.3	16.0	3.8	9.1	10.9	9.8	7.0	3.3	7.7	9.6	4.2	6.6	10.8
PERSONS 10 YEARS OLD AND OVER.															
Total number	1,464,559	56,824	41,516	308,011	447,731	153,667	98,665	28,669	24,889	21,979	21,160	39,148	137,762	63,121	23,317
Number illiterate.....	51,958	1,706	1,431	9,576	20,676	4,442	2,224	386	368	1,228	265	827	3,809	4,513	507
Per cent illiterate.....	3.5	3.0	3.4	3.1	4.6	2.9	2.3	1.3	1.5	5.6	1.3	2.1	2.8	7.1	2.2
Native white, number	1,040,845	43,574	32,842	235,997	251,358	126,636	79,077	24,818	22,511	11,274	18,587	31,867	104,860	37,464	20,610
Number illiterate.....	6,271	168	131	1,773	593	1,476	400	167	199	21	94	172	743	143	101
Per cent illiterate.....	0.6	0.4	0.4	0.8	0.2	1.2	0.5	0.7	0.9	0.2	0.5	0.5	0.7	0.4	0.9
Foreign-born white, number	371,630	12,785	8,408	55,421	188,619	15,856	13,418	3,237	1,569	10,405	1,990	3,125	31,203	24,014	1,571
Number illiterate.....	40,619	1,487	1,292	5,296	19,721	1,994	1,423	155	123	1,200	148	302	2,990	4,272	216
Per cent illiterate.....	10.9	11.6	15.4	9.6	10.5	12.6	10.6	4.8	7.8	11.5	7.4	9.7	9.6	17.8	13.7
Negro, number	51,562	559	256	17,462	7,476	11,119	4,143	607	803	298	297	4,144	1,649	1,623	1,126
Number illiterate.....	4,968	50	5	2,563	306	902	392	62	62	7	21	352	71	94	98
Per cent illiterate.....	9.6	8.9	2.0	14.3	4.1	8.7	9.5	10.2	5.6	2.3	7.1	8.5	4.3	5.8	8.7
PERSONS 10 TO 20 YEARS, INCLUSIVE.															
Total number	348,358	13,215	9,773	72,610	111,435	33,695	21,445	7,286	6,244	5,191	4,883	9,122	33,532	14,701	5,221
Number illiterate.....	3,514	141	112	494	1,464	438	116	25	23	95	29	33	151	365	28
Per cent illiterate.....	1.0	1.1	1.1	0.7	1.3	1.3	0.5	0.3	0.4	1.8	0.6	0.4	0.5	2.5	0.5
SCHOOL AGE AND ATTENDANCE															
Total number 6 to 20 years, inclusive.	464,975	17,402	13,040	93,618	150,887	44,354	28,726	9,765	8,392	7,523	6,581	12,142	45,314	20,243	6,988
Number attending school.....	281,438	10,189	7,477	55,474	92,094	27,631	17,624	5,814	5,317	4,857	4,037	7,479	28,198	11,091	4,156
Per cent attending school.....	60.5	58.6	57.3	59.3	61.0	62.3	61.4	59.5	63.4	64.6	61.3	61.6	62.2	54.8	59.5
Number 6 to 9 years	116,617	4,187	3,262	21,008	39,452	10,659	7,281	2,479	2,148	2,332	1,698	3,020	11,782	5,542	1,767
Number attending school.....	99,890	3,672	2,400	18,311	34,340	9,025	6,223	2,016	1,822	2,092	1,334	2,525	10,330	4,025	1,340
Number 10 to 14 years	143,520	5,008	3,914	29,417	47,061	13,427	8,678	3,143	2,622	2,292	2,004	3,718	14,170	6,006	2,080
Number attending school.....	133,460	4,711	3,635	27,374	43,755	12,506	8,149	2,901	2,482	2,163	1,867	3,483	13,169	5,323	1,942
Number 15 to 17 years	93,620	3,505	2,618	20,028	29,502	9,129	5,751	1,979	1,675	1,259	1,322	2,486	9,202	3,697	1,467
Number attending school.....	86,668	1,395	1,123	7,325	10,359	4,440	2,541	703	792	533	633	1,172	3,559	1,413	680
Number 18 to 20 years	111,218	4,702	3,246	23,165	34,872	11,139	7,016	2,164	1,947	1,640	1,557	2,913	10,160	4,938	1,694
Number attending school.....	11,420	411	319	2,464	3,140	1,660	706	194	221	139	203	299	1,140	330	194
PERSONS 6 TO 14 YEARS, INCLUSIVE.															
Total number	260,137	9,195	7,176	50,425	86,513	24,086	15,959	5,622	4,770	4,624	3,702	6,738	25,952	11,548	3,827
Number attending school.....	233,350	8,383	6,035	45,685	78,595	21,531	14,377	4,917	4,304	4,185	3,201	6,008	23,499	9,348	3,282
Per cent attending school.....	89.7	91.2	84.1	90.6	90.8	89.4	90.1	87.5	90.2	90.5	86.5	89.2	90.5	80.9	85.8
Native white—Native parentage	133,906	5,558	4,933	31,462	23,915	17,641	11,586	4,333	3,969	1,600	3,164	5,004	13,080	4,489	3,172
Number attending school.....	121,289	5,103	4,272	28,593	22,285	15,892	10,483	3,784	3,572	1,484	2,740	4,507	12,151	3,686	2,731
Per cent attending school.....	90.6	91.8	86.6	90.9	93.2	90.1	90.5	87.3	90.0	92.8	86.8	90.1	92.9	82.1	86.1
Native white—Foreign or mixed par.	101,643	2,963	1,861	15,110	51,073	4,445	3,265	1,114	600	2,278	441	977	11,390	5,705	421
Number attending school.....	90,872	2,704	1,489	13,718	46,160	3,934	2,946	977	557	2,059	381	852	10,686	4,651	358
Per cent attending school.....	89.4	91.3	80.0	90.8	90.4	88.5	90.2	87.7	92.8	86.4	86.4	87.2	88.6	81.5	85.0
Foreign-born white	17,931	575	341	1,826	10,675	597	551	82	55	600	57	41	1,286	1,121	34
Number attending school.....	15,356	493	243	1,505	9,366	4									

TABLE III.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR CITIES OF 10,000 TO 25,000.

SUBJECT.	TOTAL, CITIES NAMED.	Alliance.	Ashtabula. ¹	Bellaire. ¹	Cambridge.	Chilli-cothe.	East Liver-pool. ¹	Elyria.	Find-lay.	Ironton.	Lake-wood.	Lan-caster.
COLOR AND NATIVITY												
Total population, 1910.....	360,984	15,083	18,266	12,946	11,327	14,508	20,387	14,825	14,858	13,147	15,181	13,093
1900.....	274,217	8,974	12,949	9,912	8,241	12,976	16,485	8,791	17,613	11,868	3,355	8,991
Native white—Native parentage.....	232,775	9,616	7,886	7,529	9,264	10,342	14,271	7,322	12,068	9,608	6,226	10,784
Native white—Foreign or mixed parentage.....	78,738	2,690	5,598	2,936	1,087	2,599	3,797	4,193	1,944	2,025	4,983	1,720
Foreign-born white.....	41,997	2,659	4,710	2,125	633	618	1,997	3,061	651	466	3,916	365
Negro.....	7,409	116	69	355	343	948	315	235	193	1,046	43	223
Indian, Chinese, and Japanese.....	65	2	3	1	.....	1	7	14	2	2	13	1
FOREIGN NATIONALITIES												
FOREIGN-BORN WHITE: Born in—												
Austria.....	2,092	287	335	234	24	2	72	87	8	5	305	10
Belgium.....	115	1	.....	7	6	1	.....	.....	11	.....	2	6
Canada—French.....	125	2	9	8	2	3	1	12	2	6	20	1
Canada—Other.....	1,709	48	193	20	19	11	38	153	67	16	478	14
Denmark.....	176	3	8	2	.....	2	5	8	2	2	107	1
England.....	4,279	157	176	140	143	40	1,040	476	51	57	431	41
Finland.....	1,373	.....	1,288	.....	.....	.....	.....	1	.....	.....	3	.....
France.....	359	31	7	33	10	2	10	15	16	7	15	5
Germany.....	11,382	291	98	312	45	424	288	689	373	224	555	196
Greece.....	350	6	11	.....	14	4	41	80	2	7	.....	2
Hungary.....	5,900	695	191	389	60	5	6	864	3	.....	1,581	9
Ireland.....	2,628	97	237	185	29	77	147	115	39	70	147	40
Italy.....	4,618	201	1,123	518	6	24	134	48	4	6	5	7
Roumania.....	461	358	.....	24	32	.....	.....	20	.....	.....	.....	.....
Russia.....	1,873	51	141	146	34	5	76	183	8	15	25	11
Scotland.....	912	72	44	41	24	7	83	89	10	8	90	7
Sweden.....	903	26	664	1	10	.....	9	40	5	.....	30	.....
Switzerland.....	691	20	18	12	3	1	5	34	38	2	41	8
Turkey.....	320	9	39	24	112	2	5	12	.....	4	1	.....
Wales.....	788	111	1	27	58	2	24	21	4	30	22	2
Other foreign countries.....	943	12	127	2	2	6	13	114	8	7	58	5
NATIVE WHITE: Both parents born in—												
Austria.....	989	85	181	124	13	7	28	50	1	4	197	3
Canada—French.....	75	2	.....	7	.....	.....	8	2	3	3	9	4
Canada—Other.....	426	4	75	12	10	4	9	36	8	3	89	5
England.....	3,519	167	153	124	85	37	784	383	37	38	299	43
France.....	415	55	10	21	9	6	9	14	16	7	14	10
Germany.....	24,481	412	194	582	103	1,255	484	1,247	579	689	1,054	623
Hungary.....	1,703	101	177	114	6	1	1	162	1	.....	632	5
Ireland.....	6,614	201	474	456	110	240	310	278	118	257	268	156
Italy.....	2,081	80	890	180	.....	16	47	17	3	2	1	2
Russia.....	818	18	82	85	17	6	20	57	5	8	8	2
Scotland.....	628	54	36	12	17	5	61	40	19	3	48	6
Sweden.....	839	10	685	1	19	.....	4	34	8	1	15	.....
Switzerland.....	630	190	16	6	1	3	5	17	30	6	46	8
Wales.....	937	154	4	27	73	2	39	35	9	93	18	5
All others of foreign parentage ²	5,774	187	1,439	174	67	65	312	279	149	101	527	75
SEX												
Total.. Male.....	179,155	8,028	9,446	6,840	5,716	6,912	9,996	7,820	7,039	6,347	7,477	6,216
Female.....	181,829	7,055	8,820	6,106	5,611	7,586	10,391	7,005	7,819	6,800	7,704	6,877
White.. Male.....	175,381	7,966	9,405	6,644	5,544	6,443	9,835	7,687	6,944	5,800	7,450	6,107
Female.....	178,129	6,999	8,789	5,946	5,440	7,116	10,230	6,889	7,719	6,299	7,075	6,762
Negro.. Male.....	3,717	60	38	195	172	468	154	121	93	546	19	108
Female.....	3,692	56	31	160	171	480	161	114	100	500	24	115
MALES OF VOTING AGE												
Total number.....	111,726	5,312	5,602	4,059	3,491	4,314	5,851	5,090	4,477	3,708	4,795	3,785
Native white—Native parentage.....	63,634	2,939	2,369	2,002	2,716	2,713	3,813	2,065	3,440	2,340	1,696	2,876
Native white—Foreign or mixed parentage.....	23,676	726	820	754	308	1,030	987	1,220	652	774	1,136	669
Foreign-born white.....	21,847	1,006	2,382	1,183	380	290	944	1,709	324	235	1,938	173
Negro.....	2,466	40	28	119	87	280	100	85	59	358	18	66
CITIZENSHIP OF FOREIGN-BORN WHITE.												
Naturalized.....	9,615	350	1,108	386	114	181	560	556	162	125	791	131
Having first papers.....	919	97	113	31	28	29	51	69	33	3	96	5
Alien.....	7,799	837	914	646	175	6	174	807	9	7	972	8
Unknown.....	3,514	322	247	120	63	74	159	277	120	100	79	29
ILLITERACY												
Total number 10 years old and over.....	295,122	12,422	14,084	10,245	9,101	12,103	16,210	12,255	12,534	10,583	12,239	10,552
Number illiterate.....	7,641	283	622	880	324	291	293	320	128	708	205	152
Native white 10 years old and over.....	248,069	9,743	9,476	7,909	8,231	10,713	14,013	9,081	11,726	9,276	8,404	10,004
Number illiterate.....	2,461	25	17	110	96	173	147	20	97	461	6	124
Foreign-born white 10 years old and over.....	40,795	2,583	4,548	2,032	623	615	1,930	2,959	646	461	3,787	362
Number illiterate.....	4,541	254	604	745	204	36	129	280	26	71	198	16
Negro 10 years old and over.....	6,199	94	57	303	247	774	260	202	160	844	40	185
Number illiterate.....	634	3	1	25	24	82	16	19	5	176	.....	12
Illiterate males of voting age.....	3,842	194	305	533	203	110	131	202	59	288	72	42
SCHOOL AGE AND ATTENDANCE												
Total number 6 to 20 years, inclusive.....	95,088	3,563	5,178	3,627	3,699	3,729	5,843	3,629	3,881	3,898	3,652	3,480
Number attending school.....	59,283	2,190	3,326	2,180	2,010	2,315	3,547	2,209	2,587	2,427	2,549	2,231
PERSONS 6 TO 14 YEARS, INCLUSIVE.												
Total number.....	54,071	1,964	3,261	2,060	1,793	2,065	3,375	1,947	2,213	2,272	2,147	2,070
Number attending school.....	47,962	1,762	2,724	1,810	1,611	1,844	2,962	1,767	2,002	1,987	1,993	1,843
Native white—Native parentage, number.....	40,713	1,449	1,332	1,382	1,510	1,785	2,537	1,225	1,938	1,974	1,102	1,935
Number attending school.....	36,328	1,304	1,130	1,227	1,352	1,593	2,218	1,138	1,744	1,722	1,034	1,728
Native white—Foreign or mixed parentage, number.....	10,554	392	1,654	490	200	139	711	571	231	121	200	104
Number attending school.....	9,271	354	1,363	420	189	126	631	508	218	107	781	91
Foreign-born white, number.....	1,741	84	263	126	19	6	75	124	11	5	203	2
Number attending school.....	1,422	84	222	105	17	5	67	95	11	5	176	.....
Negro, number.....	1,062	21	12	62	64	135	52	27	33	172	1	29
Number attending school.....	940	20	9	53	53	120	46	26	29	153	1	24
DWELLINGS AND FAMILIES												
Dwellings, number.....	81,467	3,315	3,549	2,587	2,706	3,575	4,523	3,239	3,968	2,935	3,185	3,064
Families, number.....	88,137	3,602	4,160	2,862	2,818	3,783	4,762	3,519	4,241	3,073	3,649	3,270

¹ For changes in boundaries, etc., see page 636.

² Native whites having both parents born in countries other than specified, and also those having both parents of foreign birth but born in different countries.

TABLE III.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR CITIES OF 10,000 TO 25,000—Contd.

SUBJECT.	Mansfield.	Marion. ¹	Marion. ¹	Mason.	Middle-town.	Norwood.	Piqua.	Portsmouth.	Sandusky.	Steubenville.	Tiffin.	Warren. ¹
COLOR AND NATIVITY												
Total population, 1910.....	20,768	12,923	18,232	13,879	13,152	16,185	13,388	23,481	19,989	22,391	11,894	11,081
1900.....	17,640	13,348	11,862	11,944	9,215	6,480	12,172	17,870	19,664	14,349	10,989	8,529
Native white—Native parentage.....	13,748	9,819	14,850	7,613	9,148	9,672	9,469	18,431	8,119	11,568	8,027	7,395
Native white—Foreign or mixed parentage.....	4,141	2,226	2,415	4,339	2,407	5,029	2,639	3,445	8,449	4,926	2,887	2,263
Foreign-born white.....	2,773	605	774	1,729	1,192	1,385	752	828	3,248	5,214	944	1,352
Negro.....	105	270	193	197	405	99	527	772	172	677	36	70
Indian, Chinese, and Japanese.....	1	3	.....	1	.....	.....	1	5	1	6	.....	1
FOREIGN NATIONALITIES												
FOREIGN-BORN WHITE: Born in—												
Austria.....	70	7	1	167	24	19	17	12	65	316	16	9
Belgium.....	1	.....	1	4	.....	.....	.....	1	26	6	41	.....
Canada—French.....	5	6	8	2	5	9	3	4	3	4	.....	6
Canada—Other.....	74	46	49	45	18	69	32	26	122	44	38	89
Denmark.....	1	.....	1	.....	.....	.....	.....	3	13	8	.....	3
England.....	107	40	74	195	94	128	73	73	140	309	36	258
Finland.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	1	73
France.....	18	2	5	35	14	28	16	26	26	14	22	2
Germany.....	908	316	375	786	530	762	405	400	2,180	400	593	163
Greece.....	18	2	3	10	77	5	.....	17	.....	48	2	1
Hungary.....	1,198	3	.....	92	150	65	2	3	111	342	7	124
Ireland.....	117	30	143	64	144	146	89	61	156	305	67	123
Italy.....	48	8	43	36	35	13	67	64	247	1,724	28	229
Roumania.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	21
Russia.....	50	84	4	55	37	12	4	6	32	830	6	58
Scotland.....	36	9	17	38	39	26	21	9	31	117	8	86
Sweden.....	7	6	7	10	4	4	.....	11	12	18	25	14
Switzerland.....	72	6	17	63	7	31	10	12	54	18	28	10
Turkey.....	27	25	2	14	.....	.....	.....	13	1	15	14	1
Wales.....	3	7	15	98	6	34	6	15	6	219	.....	77
Other foreign countries.....	12	4	8	13	8	24	5	12	23	468	7	5
NATIVE WHITE: Both parents born in—												
Austria.....	18	8	1	35	5	6	8	7	51	146	9	2
Canada—French.....	3	2	5	2	2	3	3	2	3	5	7	3
Canada—Other.....	11	8	16	25	3	19	10	4	50	6	14	5
England.....	128	31	51	150	80	113	59	62	162	315	35	183
France.....	10	3	6	28	15	31	43	65	17	8	13	5
Germany.....	1,621	1,044	802	1,707	722	1,997	1,071	1,422	4,450	747	1,334	342
Hungary.....	303	6	.....	21	22	18	2	1	3	102	11	14
Ireland.....	263	126	311	184	367	435	237	225	442	777	140	239
Italy.....	41	5	8	18	15	16	15	14	109	489	5	108
Russia.....	22	25	.....	11	33	18	6	2	19	348	7	19
Scotland.....	16	21	29	44	27	15	5	8	24	85	10	43
Sweden.....	4	.....	.....	7	4	9	1	8	10	4	5	10
Switzerland.....	76	6	12	67	6	24	7	20	33	19	21	11
Wales.....	6	5	30	123	2	51	8	33	6	111	3	100
All others of foreign parentage ²	238	82	89	256	138	298	95	152	373	349	119	210
SEX												
Total..... Male.....	9,966	6,092	9,067	6,936	6,720	7,774	6,402	11,548	9,596	12,172	5,733	5,312
Female.....	10,802	6,831	9,165	6,943	6,432	8,411	6,986	11,933	10,393	10,219	6,161	5,769
White..... Male.....	9,919	5,970	8,964	6,839	6,515	7,745	6,142	11,133	9,510	11,827	5,715	5,277
Female.....	10,743	6,680	9,075	6,842	6,232	8,341	6,718	11,571	10,306	9,881	6,143	5,733
Negro..... Male.....	46	119	103	96	205	29	259	410	85	339	18	34
Female.....	59	151	90	101	200	70	268	362	87	338	18	36
MALES OF VOTING AGE												
Total number.....	6,306	3,800	5,612	4,265	4,184	4,943	4,120	6,824	6,084	7,875	3,758	3,471
Native white—Native parentage.....	3,936	2,589	4,286	1,924	2,501	2,554	2,563	4,786	1,807	3,341	2,304	2,124
Native white—Foreign or mixed parentage.....	1,211	868	875	1,342	843	1,700	975	1,331	2,629	1,189	986	651
Foreign-born white.....	1,125	270	386	926	669	669	379	423	1,590	3,103	455	667
Negro.....	33	71	65	72	150	20	202	279	57	236	13	28
CITIZENSHIP OF FOREIGN-BORN WHITE.												
Naturalized.....	591	134	266	478	260	522	195	276	1,252	589	313	275
Having first papers.....	82	13	24	24	16	30	10	15	32	81	22	15
Alien.....	293	24	32	245	332	85	60	45	149	1,712	38	229
Unknown.....	159	99	64	179	82	32	114	87	157	721	82	148
ILLITERACY												
Total number 10 years old and over.....	17,287	10,822	14,875	11,234	10,792	13,500	11,237	19,021	16,745	17,998	10,019	9,264
Number illiterate.....	162	128	123	141	229	49	214	641	263	977	94	414
Native white 10 years old and over.....	14,611	10,002	13,954	9,368	9,274	12,044	10,035	17,526	13,380	12,346	9,060	7,893
Number illiterate.....	50	81	63	43	126	22	114	515	70	38	47	16
Foreign-born white 10 years old and over.....	2,579	584	764	1,707	1,165	1,365	747	822	3,214	5,070	928	1,304
Number illiterate.....	107	38	40	91	72	14	53	35	181	909	47	391
Negro 10 years old and over.....	96	233	157	158	353	91	454	668	150	576	31	66
Number illiterate.....	5	9	20	7	31	13	46	91	12	30	.....	7
Illiterate males of voting age.....	47	49	57	53	93	21	94	272	96	647	32	242
SCHOOL AGE AND ATTENDANCE												
Total number 6 to 20 years, inclusive.....	5,192	3,322	4,813	3,701	3,686	4,134	3,401	6,716	5,347	5,622	2,819	2,756
Number attending school.....	3,240	2,189	3,079	2,324	2,164	2,636	2,099	3,980	3,332	3,060	1,800	1,809
PERSONS 6 TO 14 YEARS, INCLUSIVE.												
Total number.....	2,903	1,884	2,760	2,194	2,012	2,243	1,888	3,672	2,963	3,249	1,600	1,536
Number attending school.....	2,618	1,707	2,460	1,923	1,793	2,055	1,678	3,307	2,708	2,554	1,459	1,395
Native white—Native parentage, number.....	2,114	1,697	2,497	1,546	1,679	1,743	1,612	3,372	1,828	1,993	1,311	1,152
Native white—Foreign or mixed parentage, number.....	1,920	1,541	2,219	1,362	1,486	1,600	1,433	3,034	1,689	1,605	1,199	1,050
Number attending school.....	481	108	223	581	257	459	217	179	1,067	950	259	320
Foreign-born white, number.....	432	94	205	509	235	419	198	167	965	732	238	289
Number attending school.....	294	34	8	31	34	34	7	12	50	219	23	59
Negro, number.....	252	33	7	20	31	31	7	8	37	142	16	51
Number attending school.....	14	45	32	36	42	7	52	109	18	87	7	5
Number attending school.....	14	39	29	32	41	5	40	98	17	75	6	5
DWELLINGS AND FAMILIES												
Dwellings, number.....	4,742	3,225	4,518	3,320	2,777	2,932	3,314	5,049	4,873	4,381	3,045	2,645
Families, number.....	5,373	3,420	4,650	3,456	2,926	3,889	3,471	5,371	5,059	4,789	3,194	2,800

¹ For changes in boundaries, etc., see page 636.

² Native whites having both parents born in countries other than specified, and also those having both parents of foreign birth but born in different countries.

TABLE IV.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR PLACES OF 2,500 TO 10,000.

SUBJECT.	TOTAL PLACES NAMED.	Ashland.	Athens.	Barberton.	Barnesville. ¹	Bellefontaine.	Belleue.	Berea.	Bowling Green.	Bridgeport.	Bryan.	Bucyrus. ¹	Byesville.	Canal Dover.	Carthage.
SEX, COLOR, AND NATIVITY															
Total population, 1910.....	519,949	6,795	5,463	9,410	4,233	8,238	5,209	2,609	5,222	3,974	3,641	8,122	3,156	6,021	3,618
1900.....	425,433	4,087	3,066	4,354	3,721	6,649	4,101	2,510	5,067	3,963	3,131	6,560	1,267	5,422	2,559
Male.....	258,638	3,266	2,621	5,350	1,958	4,074	2,590	1,282	2,572	1,955	1,736	4,170	1,620	3,440	1,598
Female.....	261,311	3,529	2,842	4,060	2,275	4,164	2,619	1,327	2,650	2,019	1,905	3,952	1,536	3,181	2,020
Native white—Native parentage.....	358,552	6,041	4,699	4,881	3,652	6,918	3,328	1,186	4,303	2,614	3,011	5,321	2,255	3,753	1,971
Native white—Foreign or mixed par.....	95,155	522	414	1,695	297	772	1,247	939	630	773	502	1,905	500	1,841	1,005
Foreign-born white.....	50,435	220	103	2,829	52	192	616	480	240	380	127	872	332	1,008	337
Negro.....	15,703	12	245	3	232	355	18	1	49	206	1	24	9	18	305
Indian, Chinese, and Japanese.....	104	.....	2	2	.....	1	.....	3	.....	1	.....	.....	.....	1	.....
MALES OF VOTING AGE															
Total number.....	162,454	2,221	1,640	3,585	1,208	2,639	1,693	711	1,630	1,165	1,121	2,727	891	2,073	976
Native white—Native parentage.....	100,220	1,893	1,364	1,473	1,009	2,114	965	291	1,255	720	879	1,554	609	930	474
Native white—Foreign or mixed par.....	29,529	212	138	386	109	311	420	188	246	198	172	674	99	584	338
Foreign-born white.....	27,693	112	57	1,723	31	103	299	230	114	181	70	489	181	557	142
Naturalized.....	12,111	62	38	222	16	58	187	163	66	124	31	255	85	237	110
Negro.....	4,933	4	79	1	59	110	9	1	15	65	.....	10	2	1	22
ILLITERACY															
Total number 10 years old and over.....	426,339	5,686	4,570	7,526	3,557	6,934	4,268	2,124	4,301	3,161	3,061	6,783	2,320	5,299	2,973
Number illiterate.....	12,212	24	64	233	73	74	101	57	63	64	9	81	70	152	17
Native white 10 years old and over.....	363,905	5,470	4,251	4,851	3,314	6,442	3,668	1,652	4,033	2,619	2,933	5,910	1,995	4,302	2,366
Number illiterate.....	3,957	18	39	25	48	39	23	1	32	34	6	12	23	41	4
Foreign-born white 10 years old and over.....	49,258	205	103	2,670	52	192	583	468	234	369	127	854	318	987	337
Number illiterate.....	6,797	6	3	207	2	14	78	55	25	13	2	67	47	111	5
Negro 10 years old and over.....	13,075	11	214	3	191	299	17	1	34	172	1	19	7	9	270
Number illiterate.....	1,451	.....	22	.....	23	21	.....	1	6	17	1	2	.....	.....	8
Illiterate males of voting age.....	6,422	10	26	150	31	35	45	27	26	31	3	52	38	74	5
SCHOOL AGE AND ATTENDANCE															
Total number 6 to 20 years, inclusive.....	135,731	1,506	1,451	2,236	1,135	1,977	1,267	861	1,366	1,147	939	2,032	983	1,920	1,264
Number attending school.....	89,729	984	1,007	1,262	790	1,370	920	662	1,032	711	636	1,330	682	1,116	731
PERSONS 6 TO 14 YEARS, INCLUSIVE.															
Native white, number.....	74,132	854	741	1,085	625	1,066	734	481	791	638	534	1,145	622	1,086	567
Number attending school.....	66,683	800	658	924	574	974	681	441	749	558	482	961	570	900	517
Foreign-born white, number.....	1,582	13	1	170	1	3	44	20	6	19	.....	20	25	39	4
Number attending school.....	1,301	12	1	141	.....	.....	38	16	6	19	.....	14	21	28	4
Negro, number.....	2,513	.....	38	.....	45	48	3	.....	6	31	.....	4	3	12	122
Number attending school.....	2,270	.....	29	.....	41	43	2	.....	6	29	.....	4	3	11	103
DWELLINGS AND FAMILIES															
Dwellings, number.....	123,546	1,813	1,356	1,823	1,075	2,030	1,300	571	1,387	884	972	1,995	733	1,490	616
Families, number.....	131,636	1,938	1,457	2,010	1,159	2,173	1,401	611	1,414	952	1,027	2,084	740	1,539	704

SUBJECT.	Celina.	Chicago Junction.	Circleville.	Cleveland Heights. ¹	Clyde.	Conneaut.	Coshoc-ton.	Crest-line.	Crooksville.	Cuyahoga Falls.	Defiance.	Delaware.	Delphos.	Dennison.	East Cleve-land.
SEX, COLOR, AND NATIVITY															
Total population, 1910.....	3,493	2,950	6,744	2,955	2,815	8,319	9,603	3,807	3,028	4,020	7,327	9,076	5,038	4,008	9,179
1900.....	2,815	2,348	6,991	.....	2,515	7,133	6,473	3,282	835	3,186	7,579	7,940	4,517	3,763	2,757
Male.....	1,723	1,553	3,247	1,409	1,342	4,258	4,580	1,948	1,554	1,960	3,581	4,306	2,560	2,085	4,149
Female.....	1,770	1,397	3,497	1,546	1,473	4,061	5,023	1,859	1,474	2,060	3,746	4,770	2,478	1,923	5,030
Native white—Native parentage.....	2,742	2,282	5,506	1,351	2,169	4,920	7,635	2,261	2,678	2,507	4,547	6,817	3,603	2,963	5,116
Native white—Foreign or mixed par.....	610	447	665	875	495	1,835	1,419	1,015	249	1,023	2,092	1,322	1,130	587	2,613
Foreign-born white.....	139	217	197	692	151	1,533	456	517	100	470	672	447	256	447	1,418
Negro.....	2	4	376	37	.....	27	91	14	1	17	16	485	49	7	30
Indian, Chinese, and Japanese.....	.....	.....	.....	.....	.....	4	2	.....	.....	3	.....	5	.....	.....	2
MALES OF VOTING AGE															
Total number.....	1,024	1,033	2,038	933	888	2,660	2,780	1,245	843	1,253	2,207	2,721	1,560	1,266	2,737
Native white—Native parentage.....	718	717	1,567	423	646	1,481	1,982	604	728	694	1,143	1,860	945	801	1,468
Native white—Foreign or mixed par.....	229	175	238	232	173	374	519	353	62	306	688	475	475	165	703
Foreign-born white.....	77	140	96	257	69	793	247	281	53	246	368	220	126	297	557
Naturalized.....	54	52	70	132	54	326	130	140	32	129	295	148	95	59	397
Negro.....	.....	1	137	21	.....	8	30	7	.....	4	8	163	14	3	8
ILLITERACY															
Total number 10 years old and over.....	2,820	2,408	5,584	2,493	2,386	6,617	7,786	3,060	2,313	3,299	6,079	7,720	4,124	3,157	7,758
Number illiterate.....	46	29	219	10	39	150	218	45	15	59	100	114	47	101	27
Native white 10 years old and over.....	2,681	2,190	5,050	1,775	2,237	5,116	7,272	2,559	2,215	2,818	5,398	6,859	3,828	2,716	6,318
Number illiterate.....	45	147	147	1	19	15	151	18	12	12	70	62	24	14	4
Foreign-born white 10 years old and over.....	138	214	194	681	149	1,472	442	490	97	465	667	446	254	430	1,408
Number illiterate.....	1	24	13	7	20	133	57	26	3	47	27	27	19	86	22
Negro 10 years old and over.....	1	4	320	37	.....	25	70	11	1	13	14	410	42	7	30
Number illiterate.....	.....	1	59	2	.....	1	10	.....	.....	.....	3	24	4	1	1
Illiterate males of voting age.....	17	12	95	3	15	87	96	22	3	34	50	53	20	70	9
SCHOOL AGE AND ATTENDANCE															
Total number 6 to 20 years, inclusive.....	987	697	1,710	673	654	2,156	2,625	997	969	1,030	2,042	2,395	1,433	1,092	2,029
Number attending school.....	667	481	1,124	469	427	1,390	1,689	697	594	683	1,315	1,662	873	592	1,505
PERSONS 6 TO 14 YEARS, INCLUSIVE.															
Native white, number.....	574	426	946	352	361	1,218	1,398	564	561	599	1,122	1,194	804	648	1,100
Number attending school.....	518	385	842	330	336	1,050	1,300	534	493	538	1,023	1,049	725	440	1,025
Foreign-born white, number.....	2	4	5	20	4	87	19	23	5	2	8	6	5	6	17
Number attending school.....	2	3	5	17	4	67	18	22	4	1	7	6	2	3	14
Negro, number.....	.....	.....	59	.....	4	4	13	.....	.....	6	4	76	7	.....	2
Number attending school.....	.....	.....	57	.....	4	13	.....	.....	.....	6	3	72	7	.....	2
DWELLINGS AND FAMILIES															
Dwellings, number.....	850	745	1,725	610	800	1,805	2,296	904	651	974	1,796	2,277	1,215	930	2,106
Families, number.....	893	765	1,862	635	843	2,050	2,437	943	695	1,004	1,878	2,423	1,248	945	2,294

¹ For changes in boundaries, etc., see page 636.

STATISTICS OF POPULATION.

TABLE IV.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR PLACES OF 2,500 TO 10,000—Contd.

SUBJECT.	East Palestine.	East Youngstown. ¹	Eaton.	Elmwood Place.	Fostoria.	Franklin.	Fremont.	Galion.	Gallipolis.	Girard.	Glouster.	Greenfield.	Greenville.	Hartwell.	Hillsboro.
SEX, COLOR, AND NATIVITY															
Total population, 1910.....	3,537	4,972	3,187	3,423	9,597	2,659	9,939	7,214	5,560	3,736	2,527	4,228	6,237	2,823	4,296
1900.....	2,493		3,155	2,532	7,730	2,724	8,439	7,282	5,432	2,630	2,155	3,979	5,501	1,833	4,535
Male.....	1,801	3,867	1,498	1,790	4,791	1,254	4,799	3,562	2,584	2,085	1,307	1,990	2,954	1,534	2,034
Female.....	1,736	1,105	1,689	1,633	4,806	1,405	5,140	3,652	2,976	1,651	1,220	2,238	3,283	1,289	2,262
Native white—Native parentage.....	2,178	332	2,771	1,749	7,550	2,117	5,936	4,989	4,291	1,354	1,407	3,723	5,368	1,451	3,237
Native white—Foreign or mixed par.....	915	772	282	1,138	1,384	347	2,824	1,745	459	1,326	575	183	648	652	294
Foreign-born white.....	436	3,866	74	417	532	84	1,057	465	124	1,045	338	63	183	503	69
Negro.....	1	2	60	119	128	111	119	14	684	11	207	247	38	217	696
Indian, Chinese, and Japanese.....	1				3			1				12			
MALES OF VOTING AGE															
Total number.....	1,008	2,972	1,067	1,129	3,015	818	3,085	2,270	1,669	1,289	703	1,227	1,933	1,190	1,312
Native white—Native parentage.....	534	107	888	481	2,193	602	1,607	1,396	1,220	364	360	1,043	1,577	459	952
Native white—Foreign or mixed par.....	220	49	119	377	480	125	920	630	167	310	118	71	250	300	121
Foreign-born white.....	249	2,814	33	234	294	48	516	238	57	613	169	35	93	344	37
Naturalized.....	107	107	25	139	220	40	385	179	39	309	118	34	54	320	20
Negro.....	4	2	27	37	47	43	41	5	223	2	56	75	13	87	202
ILLITERACY															
Total number 10 years old and over.....	2,750	4,253	2,805	2,772	7,927	2,245	8,275	5,968	4,747	2,992	1,945	3,563	5,315	2,520	3,699
Number illiterate.....	106	1,047	74	19	67	72	100	82	420	532	59	81	118	152	99
Native white 10 years old and over.....	2,313	457	2,675	2,263	7,284	2,062	7,138	5,493	4,041	1,959	1,451	3,287	5,098	1,831	3,057
Number illiterate.....	17	4	47	8	32	47	45	17	332	14	8	49	88	41	22
Foreign-born white 10 years old and over.....	420	3,794	72	414	529	84	1,036	462	124	1,024	334	63	183	503	69
Number illiterate.....	89	1,042	16	3	26	14	49	65	18	518	41	4	25	77	5
Negro 10 years old and over.....	7	2	58	95	111	99	98	12	580	9	160	204	34	186	573
Number illiterate.....	1	11	8	9	11	6			70		10	28	5	34	72
Illiterate males of voting age.....	67	806	35	9	26	27	32	47	154	342	27	36	43	40	41
SCHOOL AGE AND ATTENDANCE															
Total number 6 to 20 years, inclusive.....	1,050	877	680	949	2,457	688	2,476	1,826	1,313	1,004	812	1,178	1,529	497	1,091
Number attending school.....	659	246	494	576	1,550	467	1,604	1,292	887	600	525	710	1,098	295	604
PERSONS 6 TO 14 YEARS, INCLUSIVE.															
Native white, number.....	598	242	387	525	1,375	362	1,376	1,110	601	561	447	568	866	234	479
Number attending school.....	537	182	370	477	1,187	343	1,230	1,034	526	495	395	511	812	175	437
Foreign-born white, number.....	21	67	4	10	5		23	5	3	32	7			1	
Number attending school.....	15	48	4	10	5		16	5	1	24	6			1	
Negro, number.....			7	24	21	16	14		85	1	39	43	5	27	136
Number attending school.....			7	24	19	15	13		77		34	40	5	23	122
DWELLINGS AND FAMILIES															
Dwellings, number.....	773	412	922	633	2,321	645	2,479	1,861	1,177	754	602	1,039	1,666	462	1,163
Families, number.....	814	581	994	784	2,510	713	2,629	1,939	1,217	788	621	1,057	1,713	502	1,218

SUBJECT.	Jackson.	Kent.	Kenton.	Lebanon.	Lee- tonia.	Lis- bon.	Lock- land.	Lo- gan.	Lon- don.	Madi- sonville.	Martins Ferry.	Marys- ville.	Medi- na.	Miamis- burg.	Middle- port.
SEX, COLOR, AND NATIVITY															
Total population, 1910.....	5,468	4,488	7,185	2,698	2,665	3,084	3,439	4,850	3,530	5,193	9,133	3,576	2,734	4,271	3,194
1900.....	4,672	4,541	6,852	2,867	2,744	3,330	2,695	3,480	3,511	3,140	7,760	3,048	2,232	3,941	2,799
Male.....	2,671	2,248	3,442	1,290	1,418	1,491	1,753	2,362	1,682	2,470	4,696	1,722	1,265	2,082	1,527
Female.....	2,797	2,240	3,743	1,408	1,247	1,593	1,686	2,488	1,848	2,723	4,437	1,854	1,469	2,189	1,667
Native white—Native parentage.....	4,555	2,901	5,287	2,128	1,218	2,275	1,704	4,211	2,591	3,205	5,304	2,926	2,081	3,382	2,600
Native white—Foreign or mixed par.....	640	926	1,260	226	796	474	652	529	400	1,272	2,060	469	460	684	283
Foreign-born white.....	146	658	373	70	647	261	230	99	152	341	1,540	115	186	196	65
Negro.....	126	2	263	274	3	73	853	10	326	375	227	66	7	9	241
Indian, Chinese, and Japanese.....	1	1	2		1	1		1	1		2				
MALES OF VOTING AGE															
Total number.....	1,613	1,433	2,242	907	902	963	1,129	1,456	1,102	1,480	2,777	1,091	862	1,339	997
Native white—Native parentage.....	1,218	803	1,492	706	353	657	482	1,167	753	821	1,391	833	613	985	793
Native white—Foreign or mixed par.....	264	271	475	78	172	130	215	233	171	389	511	175	148	247	95
Foreign-born white.....	84	357	192	37	375	158	145	51	74	165	787	58	98	103	33
Naturalized.....	49	163	69	29	103	61	69	42	42	138	348	35	51	85	27
Negro.....	46	1	81	86	1	17	287	4	103	105	86	25	3	4	76
ILLITERACY															
Total number 10 years old and over.....	4,352	3,677	6,066	2,367	2,123	2,580	2,849	3,852	2,965	4,273	7,231	2,962	2,318	3,583	2,596
Number illiterate.....	112	170	65	37	175	61	174	77	109	57	205	62	94	61	63
Native white 10 years old and over.....	4,105	3,033	5,476	2,075	1,485	2,264	1,918	3,747	2,552	3,030	5,542	2,787	2,125	3,378	2,338
Number illiterate.....	90	18	34	2	5	27	11	68	49	17	59	50	78	43	40
Foreign-born white 10 years old and over.....	146	641	372	68	635	259	227	94	152	339	1,498	115	186	196	64
Number illiterate.....	13	152	10	3	170	31	6	7	21	12	125	8	14	17	1
Negro 10 years old and over.....	100	2	216	224	2	56	704	10	260	304	189	60	7	9	194
Number illiterate.....	9		21	32		2	157	2	39	28	21	4	2	1	22
Illiterate males of voting age.....	52	94	32	8	102	32	80	32	41	22	93	29	11	30	25
SCHOOL AGE AND ATTENDANCE															
Total number 6 to 20 years, inclusive.....	1,457	1,088	1,696	532	707	773	912	1,229	864	1,432	2,494	854	646	1,145	905
Number attending school.....	991	745	1,075	397	495	545	593	864	505	1,004	1,560	584	503	734	547
PERSONS 6 TO 14 YEARS, INCLUSIVE.															
Native white, number.....	843	609	879	259	397	397	390	742	431	755	1,358	497	846	639	452
Number attending school.....	774	566	784	243	358	371	361	672	322	706	1,202	454	841	590	399
Foreign-born white, number.....	24	2	2	2	21	2	3	3		5	58		2	1	1
Number attending school.....	17	2	2	2	18	1	2	1		4	44		2	1	1
Negro, number.....	21	1	43	38		16	128		52	71	31	11		1	42
Number attending school.....	19	1	38	36		15	123		45	66	23	11		1	40
DWELLINGS AND FAMILIES															
Dwellings, number.....	1,332	1,140	1,911	820	603	784	749	1,241	904	1,157	1,918	963	718	1,032	830
Families, number.....	1,351	1,182	2,011	876	624	827	831	1,279	970	1,296	2,113	994	773	1,079	868

¹ For changes in boundaries, etc., see page 636.

TABLE IV.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR PLACES OF 2,500 TO 10,000—Contd.

SUBJECT.	Mingo Junction.	Montpelier.	Mount Vernon.	Napoleon.	Nelsonville.	New Comers-town.	New Lexington.	New Philadelphia.	Newburgh.	Niles.	North Baltimore.	Norwalk.	Oberlin.	Orrville.	Painesville.
SEX, COLOR, AND NATIVITY															
Total population, 1910.....	4,049	2,759	9,087	4,007	6,082	2,943	2,559	8,542	5,813	8,361	2,503	7,858	4,365	3,101	5,501
1900.....	2,954	1,869	6,633	3,639	5,421	2,659	1,701	6,213	5,909	7,468	3,561	7,074	4,082	1,901	5,024
Male.....	2,393	1,411	4,456	1,933	3,033	1,467	1,286	4,213	2,856	4,597	1,214	3,669	1,894	1,599	2,603
Female.....	1,656	1,348	4,631	2,074	3,049	1,476	1,273	4,329	2,957	3,764	1,289	4,189	2,471	1,502	2,898
Native white—Native parentage.....	1,726	2,351	7,069	2,824	4,972	2,555	2,324	6,068	907	2,858	2,151	4,989	2,768	2,460	3,502
Native white—Foreign or mixed par.....	928	302	1,201	872	678	244	166	1,751	2,798	2,998	253	2,005	547	446	1,238
Foreign-born white.....	1,346	103	527	309	270	97	68	687	2,010	2,502	96	754	256	195	595
Negro.....	48	3	289	2	160	46	1	35	98	1	3	109	789	165	1
Indian, Chinese, and Japanese.....	1		1		2	1		1		2		1	5		1
MALES OF VOTING AGE															
Total number.....	1,462	913	2,838	1,188	1,707	893	737	2,511	1,487	2,840	797	2,337	1,252	1,081	1,720
Native white—Native parentage.....	480	738	2,069	755	1,277	718	644	1,515	146	708	654	1,316	744	798	1,039
Native white—Foreign or mixed par.....	146	116	397	271	233	96	60	623	402	692	91	626	146	155	323
Foreign-born white.....	813	58	280	161	145	65	32	365	911	1,437	51	355	123	128	204
Naturalized.....	153	12	199	134	59	20	12	155	539	399	20	240	71	69	138
Negro.....	22	1	91	1	50	13	1	7	28	1	1	39	235		63
ILLITERACY															
Total number 10 years old and over.....	3,114	2,274	7,516	3,288	4,705	2,345	2,058	6,879	4,237	6,678	2,102	6,577	3,837	2,527	4,722
Number illiterate.....	377	10	71	46	142	65	12	134	128	1,220	74	102	75	15	97
Native white 10 years old and over.....	1,765	2,168	6,758	2,977	4,308	2,217	1,995	6,172	2,231	4,231	2,004	5,749	2,910	2,333	3,969
Number illiterate.....	9	7	31	33	106	44	6	86	6	51	70	28	2	9	5
Foreign-born white 10 years old and over.....	1,306	103	521	309	267	95	62	676	1,933	2,444	95	735	248	194	583
Number illiterate.....	362	3	22	13	22	16	6	44	118	1,169	4	61	16	6	82
Negro 10 years old and over.....	42	3	236	2	123	32	1	30	73	1	3	92	674	140	149
Number illiterate.....	6		18		14	5		4				13	56		10
Illiterate males of voting age.....	240	5	30	19	64	41	7	61	32	792	34	42	32	5	46
SCHOOL AGE AND ATTENDANCE															
Total number 6 to 20 years, inclusive.....	1,099	671	2,253	1,085	1,847	795	722	2,366	1,872	2,352	671	1,987	1,110	666	1,368
Number attending school.....	618	489	1,620	773	1,241	550	522	1,542	1,239	1,474	487	1,393	993	448	930
PERSONS 6 TO 14 YEARS, INCLUSIVE.															
Native white, number.....	561	393	1,275	641	1,079	476	400	1,316	1,091	1,271	379	1,125	412	378	745
Number attending school.....	484	366	1,181	598	989	429	364	1,223	1,014	1,150	305	1,024	386	355	674
Foreign-born white, number.....	60	1	8		6	2	5	13	129	79	1	30	5	1	14
Number attending school.....	41	1	7		6	2	4	11	119	68	1	25	5	1	13
Negro, number.....	7		39		34	7		7	23			10	120		21
Number attending school.....	7		36		28	7		7	21			10	110		15
DWELLINGS AND FAMILIES															
Dwellings, number.....	775	769	2,265	1,066	1,311	748	629	2,050	1,092	1,690	726	2,055	1,085	774	1,342
Families, number.....	802	782	2,456	1,087	1,434	765	630	2,187	1,291	1,798	729	2,134	1,254	829	1,496

SUBJECT.	Pome-roy.	Port Clinton.	Ra-venna.	Read-ing.	Rock-port.	St. Bern-ard.	St. Marys.	Salem.	Shelby.	Sidney.	Struth-ers. ¹	Toronto.	Troy.	Uhrichs-ville.
SEX, COLOR, AND NATIVITY														
Total population, 1910.....	4,023	3,007	5,310	3,985	3,179	5,002	5,732	8,943	4,903	6,607	3,370	4,271	6,122	4,751
1900.....	4,639	2,450	4,003	3,076	2,038	3,384	5,359	7,582	4,685	5,688		3,526	5,881	4,582
Male.....	1,941	1,513	2,581	2,087	1,651	2,650	2,828	4,518	2,435	3,197	1,886	2,204	2,950	2,321
Female.....	2,082	1,494	2,729	1,898	1,528	2,352	2,904	4,425	2,468	3,410	1,484	2,067	3,172	2,430
Native white—Native parentage.....	2,660	1,484	3,544	1,787	1,022	2,453	4,516	5,870	4,050	5,194	1,216	2,816	4,942	4,008
Native white—Foreign or mixed par.....	956	1,000	969	1,657	1,330	2,001	990	1,597	4,050	5,194	1,066	1,058	886	647
Foreign-born white.....	216	523	643	541	820	537	197	1,239	286	241	1,055	565	179	220
Negro.....	191		152		7	11	28	235	7	106		41	3	51
Indian, Chinese, and Japanese.....			2				1	2	1			1	1	3
MALES OF VOTING AGE														
Total number.....	1,089	965	1,690	1,139	946	1,465	1,683	2,888	1,546	2,044	1,133	1,240	1,935	1,389
Native white—Native parentage.....	549	384	1,029	281	200	496	1,161	1,706	1,158	1,505	389	753	1,494	1,101
Native white—Foreign or mixed par.....	378	287	275	565	331	667	404	397	214	398	127	180	245	153
Foreign-born white.....	105	294	337	293	412	295	108	703	172	117	606	394	88	116
Naturalized.....	89	207	88	175	222	252	45	234	69	84	109	26	59	73
Negro.....	57		47		3	7	9	81	1	24	11	2	107	16
ILLITERACY														
Total number 10 years old and over.....	3,242	2,470	4,480	3,122	2,491	3,828	4,597	7,402	4,025	5,473	2,480	3,301	5,153	3,750
Number illiterate.....	77	91	187	64	85	37	76	65	103	68	74	36	123	46
Native white 10 years old and over.....	2,864	1,954	3,737	2,584	1,685	3,282	4,378	5,992	3,747	5,149	1,439	2,743	4,690	3,494
Number illiterate.....	41	36	19	8	8	23	67	18	14	47	3	11	74	25
Foreign-born white 10 years old and over.....	216	516	616	538	799	537	197	1,206	273	240	1,008	554	171	215
Number illiterate.....	16	55	133	56	77	13	8	38	88	17	69	25	17	17
Negro 10 years old and over.....	162		125		7	9	21	202	4	84	33	3	291	38
Number illiterate.....	26		5			1	1	8		4	2		32	4
Illiterate males of voting age.....	36	48	91	41	54	12	38	26	76	31	42	17	47	17
SCHOOL AGE AND ATTENDANCE														
Total number 6 to 20 years, inclusive.....	1,191	796	1,339	1,225	970	1,498	1,628	2,218	1,252	1,727	878	1,280	1,416	1,220
Number attending school.....	760	535	824	635	679	890	1,120	1,434	829	1,181	539	844	926	797
PERSONS 6 TO 14 YEARS, INCLUSIVE.														
Native white, number.....	640	451	656	690	587	935	949	1,181	707	954	495	739	750	728
Number attending school.....	589	427	597	594	540	827	885	1,040	668	881	423	656	650	605
Foreign-born white, number.....		8	28	5	39	1	2	53	7	3	63	21	8	7
Number attending school.....		8	26	5	36	1	2	37	6	3	50	19	6	7
Negro, number.....	29		24					33	2	23	7		59	6
Number attending school.....	27		21					31	2	23	7		50	5
DWELLINGS AND FAMILIES														
Dwellings, number.....	982	753	1,310	767	657	727	1,391	2,201	1,179	1,616	640	920	1,591	1,219
Families, number.....	1,010	764	1,427	855	675	1,056	1,453	2,339	1,229	1,716	675	981	1,740	1,230

¹ For changes in boundaries, etc., see page 636.

STATISTICS OF POPULATION.

TABLE IV.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR PLACES OF 2,500 TO 10,000—Contd.

SUBJECT.	Union City. ¹		Upper San-dusky.	Ur-bana.	Van Wert.	Wads-worth.	Wapa-koneta.	Wash-ington Court House.	Wau-seon.	Wells-ton.	Wells-ville.	Wil-ming-ton.	Woods-field.	Woos-ter.	Kenia.
	In Ohio.	In Ohio and Indiana.													
SEX, COLOR, AND NATIVITY															
Total population, 1910.....	1,595	4,884	3,779	7,739	7,157	3,073	5,349	7,277	2,650	6,875	7,769	4,491	2,502	6,136	8,706
1900.....	1,282	3,998	3,355	6,808	6,422	1,764	3,915	5,751	2,148	8,045	6,146	3,613	1,801	6,063	8,696
Male.....	837	2,436	1,849	3,797	3,447	1,564	2,645	3,528	1,328	3,435	4,036	2,108	1,195	2,836	4,191
Female.....	758	2,368	1,930	3,942	3,710	1,509	2,704	3,749	1,322	3,440	3,733	2,383	1,307	3,300	4,515
Native white—Native parentage.....	1,275	3,911	2,521	5,719	6,160	2,226	4,059	6,170	2,130	5,832	5,654	3,686	2,094	4,613	5,476
Native white—Foreign or mixed parentage.....	127	481	966	888	674	441	1,040	318	408	850	1,133	263	341	989	886
Foreign-born white.....	165	369	282	275	177	321	247	85	109	173	777	77	66	478	291
Negro.....	28	43	8	851	146	85	3	704	3	19	204	465	.....	52	2,052
Indian, Chinese, and Japanese.....	.....	.....	2	6	.....	.....	.....	.....	.....	1	1	.....	1	4	1
MALES OF VOTING AGE															
Total number.....	540	1,604	1,218	2,531	2,187	992	1,641	2,212	895	1,825	2,489	1,392	687	1,825	2,687
Native white—Native parentage.....	359	1,130	659	1,773	1,809	666	1,061	1,827	662	1,373	1,618	1,104	499	1,268	1,578
Native white—Foreign or mixed par.....	54	194	403	355	244	110	450	128	166	350	331	93	135	305	334
Foreign-born white.....	118	266	150	133	93	193	129	39	56	95	466	41	32	236	137
Naturalized.....	15	45	123	76	68	72	80	16	35	62	109	34	10	93	105
Negro.....	9	14	4	264	41	23	1	218	1	6	73	154	.....	13	637
ILLITERACY															
Total number 10 years old and over.....	1,279	4,057	3,158	6,628	5,971	2,524	4,394	6,056	2,246	5,287	6,126	3,816	1,930	5,288	7,266
Number illiterate.....	141	192	18	102	101	20	45	150	18	286	232	109	6	136	327
Native white 10 years old and over.....	1,094	3,655	2,867	5,648	5,671	2,157	4,145	5,394	2,135	5,081	5,221	3,357	1,864	4,773	5,251
Number illiterate.....	56	74	13	33	74	3	37	84	17	248	29	67	3	29	72
Foreign-born white 10 years old and over.....	163	367	282	270	176	299	247	85	108	172	747	73	65	472	284
Number illiterate.....	82	114	5	33	7	5	8	4	1	37	195	2	3	100	19
Negro 10 years old and over.....	22	35	7	704	124	68	2	577	3	13	157	386	.....	39	1,730
Number illiterate.....	3	4	.....	36	20	12	.....	62	.....	1	8	40	.....	7	236
Illiterate males of voting age.....	99	132	9	45	40	10	25	69	4	120	145	59	.....	61	156
SCHOOL AGE AND ATTENDANCE															
Total number 6 to 20 years, inclusive.....	412	1,169	931	1,891	1,845	824	1,471	1,867	613	2,242	2,015	1,058	726	1,519	2,183
Number attending school.....	264	812	669	1,209	1,276	557	906	1,153	430	1,599	1,258	793	520	1,024	1,499
PERSONS 6 TO 14 YEARS, INCLUSIVE.															
Native white, number.....	237	660	573	899	1,048	405	834	961	338	1,360	1,150	533	456	784	969
Number attending school.....	225	632	536	766	994	390	732	812	317	1,289	995	483	387	655	882
Foreign-born white, number.....	1	1	.....	4	3	16	.....	.....	1	.....	46	3	4	18	8
Number attending school.....	.....	.....	.....	2	3	13	.....	.....	.....	.....	37	2	4	15	8
Negro, number.....	2	2	1	140	9	20	1	112	.....	.....	27	72	.....	13	305
Number attending school.....	2	2	1	118	8	20	1	91	.....	.....	25	62	.....	11	288
DWELLINGS AND FAMILIES															
Dwellings, number.....	393	1,241	976	1,899	1,875	745	1,210	1,855	775	1,544	1,705	1,037	587	1,567	2,218
Families, number.....	407	1,268	1,012	1,996	1,952	776	1,322	1,932	791	1,571	1,857	1,251	617	1,705	2,345

¹ Union City village, Ohio, and Union City, Ind., adjoin, and to all intents and purposes are one place.

TABLE V.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR WARDS OF CITIES OF 50,000 OR MORE.

AKRON.

SUBJECT.	THE CITY.	WARD.						
		1	2	3	4	5	6	7
SEX, COLOR, AND NATIVITY								
Total population, 1910.....	69,067	7,458	7,877	13,371	8,553	9,642	8,204	13,962
Male.....	36,604	3,893	4,064	6,719	4,757	5,157	4,499	7,515
Female.....	32,463	3,565	3,813	6,652	3,796	4,485	3,705	6,447
Native white—Native parentage.....	37,793	3,940	5,198	7,609	4,960	3,586	3,968	8,522
Native white—Foreign or mixed parentage.....	17,370	1,823	1,522	3,504	1,917	3,209	2,087	3,308
Foreign-born white.....	13,241	1,456	1,083	2,152	1,623	2,804	2,010	2,113
Negro.....	657	239	74	101	52	33	139	19
Chinese and Japanese.....	6	.....	.....	5	1	.....	.....	.....
FOREIGN-BORN WHITE: Born in—								
Austria.....	933	64	106	109	74	303	160	117
Canada.....	474	58	47	98	65	64	55	87
England.....	1,396	104	121	222	123	180	352	294
France.....	167	10	18	27	24	34	21	33
Germany.....	3,132	282	240	457	357	1,031	233	552
Hungary.....	3,305	252	244	340	517	788	595	572
Ireland.....	605	81	51	132	65	94	76	106
Italy.....	799	356	9	298	62	35	23	16
Russia.....	590	61	46	164	172	56	22	69
Scotland.....	278	28	40	60	24	30	42	54
Sweden.....	336	25	24	26	15	11	214	21
Switzerland.....	275	10	41	41	27	85	22	49
Turkey.....	150	53	18	20	25	23	1	10
Wales.....	251	9	20	28	42	36	24	92
Other foreign countries.....	527	63	58	130	31	34	170	41
MALES OF VOTING AGE								
Total number.....	23,767	2,565	2,935	4,458	3,097	3,093	2,888	4,730
Native white—Native parentage.....	11,931	1,248	1,834	2,293	1,678	958	1,223	2,697
Native white—Foreign or mixed parentage.....	4,641	444	500	1,030	519	664	461	923
Foreign-born white.....	7,051	761	579	1,100	882	1,460	1,163	1,106
Naturalized.....	2,459	244	187	453	248	576	381	370
Negro.....	238	112	22	30	17	11	42	4
ILLITERACY AND SCHOOL ATTENDANCE								
Total number 10 years old and over.....	56,924	6,128	6,896	11,183	7,083	7,608	6,767	11,259
Number illiterate.....	1,706	632	96	202	191	142	249	194
Illiterate males of voting age.....	933	374	45	89	95	66	174	90
Total number 6 to 20 years, inclusive.....	17,402	1,813	1,607	3,240	2,177	2,677	2,210	3,678
Number attending school.....	10,189	1,065	911	2,073	1,000	1,610	1,419	2,051
DWELLINGS AND FAMILIES								
Dwellings, number.....	13,701	1,405	1,534	2,866	1,658	1,850	1,568	2,820
Families, number.....	15,851	1,732	1,870	3,253	1,881	2,158	1,739	3,218

TABLE V.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR WARDS OF CITIES OF 50,000 OR MORE—Continued.

CANTON.

SUBJECT.	THE CITY.	WARD.					
		1	2	3	4	5	6
SEX, COLOR, AND NATIVITY							
Total population, 1910.....	50,217	11,071	9,739	4,825	6,802	8,279	9,501
Male.....	26,110	5,205	5,262	2,558	3,920	4,552	4,623
Female.....	24,107	5,866	4,487	2,267	2,882	3,727	4,873
Native white—Native parentage.....	29,470	7,728	5,400	2,788	2,822	4,179	6,553
Native white—Foreign or mixed parentage.....	11,798	2,503	2,165	1,146	1,606	2,208	2,110
Foreign-born white.....	8,648	758	2,149	887	2,248	1,802	804
Negro.....	291	22	25	3	122	90	29
Chinese and Japanese.....	10			1	4		5
FOREIGN-BORN WHITE: Born in—							
Austria.....	504	38	89	63	117	166	31
Canada.....	167	43	21	17	23	2	56
England.....	558	128	117	55	58	59	141
France.....	169	33	13	13	29	48	33
Germany.....	2,313	272	602	285	279	600	275
Greece.....	357		12	22	284	38	1
Hungary.....	1,559	5	854	267	117	313	3
Ireland.....	192	61	24	17	25	27	33
Italy.....	980	4	24	29	843	78	2
Roumania.....	214		76	3	57	75	3
Russia.....	589	18	17	28	242	253	31
Switzerland.....	420	82	61	24	63	84	106
Turkey.....	144	4	92	25	20	2	1
Wales.....	199	19	118	19	7	19	17
Other foreign countries.....	283	46	29	20	84	38	66
MALES OF VOTING AGE							
Total number.....	16,874	3,416	3,474	1,702	2,544	2,755	2,933
Native white—Native parentage.....	8,548	2,183	1,550	860	868	1,175	1,012
Native white—Foreign or mixed parentage.....	3,178	845	541	326	293	516	657
Foreign-born white.....	5,010	374	1,371	514	1,316	1,036	399
Naturalized.....	2,005	275	414	195	358	454	309
Negro.....	129	14	12	1	63	28	11
ILLITERACY AND SCHOOL ATTENDANCE							
Total number 10 years old and over.....	41,516	9,387	8,038	4,036	5,497	6,573	7,935
Number illiterate.....	1,431	20	150	52	586	543	75
Illiterate males of voting age.....	856	3	106	21	331	376	19
Total number 6 to 20 years, inclusive.....	13,040	2,777	2,513	1,187	1,769	2,365	2,429
Number attending school.....	7,477	1,895	1,483	662	683	1,259	1,495
DWELLINGS AND FAMILIES							
Dwellings, number.....	10,722	2,503	2,006	1,055	1,257	1,679	2,162
Families, number.....	11,845	2,824	2,101	1,182	1,459	1,819	2,490

CINCINNATI.

SUBJECT.	THE CITY.	WARD.										
		1	2	3	4	5	6	7	8	9	10	11
SEX, COLOR, AND NATIVITY												
Total population, 1910.....	363,591	22,999	19,786	13,639	12,024	11,381	10,134	13,430	10,603	13,045	14,616	17,579
Male.....	177,511	10,970	9,098	6,383	5,784	5,354	5,710	6,808	5,861	5,818	6,966	8,924
Female.....	186,080	12,029	10,778	7,256	6,240	6,027	4,424	6,622	4,742	7,227	7,650	8,655
Native white—Native parentage.....	154,937	13,951	9,967	5,526	5,774	4,807	4,758	4,713	5,114	5,954	5,029	5,347
Native white—Foreign or mixed parentage.....	132,190	6,658	6,926	3,788	4,068	4,745	2,665	5,056	2,928	4,947	6,459	8,041
Foreign-born white.....	56,792	1,934	2,271	1,688	1,177	1,605	1,505	3,307	1,663	1,735	3,054	4,172
Negro.....	19,639	456	619	2,636	975	215	1,202	351	898	407	74	19
Indian, Chinese, and Japanese.....	33		3	1		9	4	3		2		
FOREIGN-BORN WHITE: Born in—												
Austria.....	1,638	37	67	34	7	48	29	236	54	66	81	73
Canada.....	941	102	85	66	29	16	69	27	44	45	13	9
England.....	1,872	169	189	144	82	35	82	55	77	87	20	33
France.....	665	40	33	27	23	17	25	29	32	18	34	40
Germany.....	28,425	918	1,111	527	434	1,103	458	1,712	321	955	1,091	2,556
Holland.....	322	10	11	17	1	14	10	8	2	38	54	13
Hungary.....	6,344	58	81	27	9	40	24	483	31	26	716	1,239
Ireland.....	6,223	382	448	499	489	187	180	76	375	301	29	44
Italy.....	2,245	46	14	196	34	68	420	60	276	66	22	13
Roumania.....	454		15			2	20	47	1		2	27
Russia.....	4,999	17	99	66	4	24	61	458	43	46	21	49
Scotland.....	458	57	51	32	10	11	25	10	29	22	1	
Switzerland.....	696	33	19	15	8	20	16	71	8	30	45	54
Turkey.....	525	1	5	5	2	1	2	6	202	7	2	
Other foreign countries.....	985	64	43	33	36	19	84	29	168	28	23	17
MALES OF VOTING AGE												
Total number.....	113,919	6,825	6,001	4,415	3,439	3,217	4,578	4,583	4,465	3,736	4,169	5,429
Native white—Native parentage.....	37,419	3,570	2,579	1,565	1,215	955	1,969	1,289	1,907	1,343	856	918
Native white—Foreign or mixed parentage.....	42,366	2,195	2,260	1,182	1,353	1,463	1,170	1,603	1,179	1,525	1,983	2,412
Foreign-born white.....	26,723	901	978	804	514	712	895	1,569	903	728	1,305	2,095
Naturalized.....	17,253	723	794	591	425	575	398	821	400	600	826	1,151
Negro.....	7,387	159	183	863	357	78	541	139	476	138	25	4
ILLITERACY AND SCHOOL ATTENDANCE												
Total number 10 years old and over.....	308,011	19,080	17,182	11,946	9,933	9,417	9,403	11,553	9,578	11,267	12,161	14,571
Number illiterate.....	9,576	266	161	474	481	262	369	369	592	155	529	297
Illiterate males of voting age.....	3,962	119	52	193	197	100	177	140	300	58	176	132
Total number 6 to 20 years, inclusive.....	93,618	6,102	4,627	2,884	3,427	3,106	1,696	3,223	2,115	3,194	4,094	4,900
Number attending school.....	55,474	3,768	3,154	1,906	1,981	1,797	739	1,644	984	2,037	2,349	2,771
DWELLINGS AND FAMILIES												
Dwellings, number.....	49,525	4,649	3,550	2,359	1,768	975	1,157	1,258	930	1,881	1,466	2,140
Families, number.....	87,541	5,507	4,701	3,449	2,917	3,062	2,368	3,739	2,402	3,111	3,029	4,272

STATISTICS OF POPULATION.

TABLE V.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR WARDS OF CITIES OF 50,000 OR MORE—Continued.

CINCINNATI—Continued.

SUBJECT.	WARD.												
	12	13	14	15	16	17	18	19	20	21	22	23	24
SEX, COLOR, AND NATIVITY													
Total population, 1910.....	16,807	20,863	15,287	14,290	16,264	13,646	14,965	15,781	15,873	14,178	12,473	19,318	14,610
Male.....	7,773	8,878	7,852	6,781	8,064	6,743	7,896	8,091	7,451	6,975	6,626	9,517	7,278
Female.....	9,034	11,985	7,435	7,509	8,200	6,903	7,069	7,690	8,422	7,203	5,847	9,801	7,332
Native white—Native parentage.....	6,200	8,854	5,290	5,187	5,205	5,608	5,339	8,244	7,427	5,885	5,266	9,322	6,170
Native white—Foreign or mixed parentage.....	7,804	7,693	6,036	4,992	5,291	4,776	3,104	5,518	6,600	5,790	4,888	7,295	6,092
Foreign-born white.....	2,087	3,307	3,774	3,108	3,166	2,202	2,533	1,828	1,730	2,240	1,940	2,079	2,087
Negro.....	116	1,007	185	1,001	2,602	1,058	3,986	191	116	263	379	622	261
Indian, Chinese, and Japanese.....		2		2		2							
FOREIGN-BORN WHITE: Born in—													
Austria.....	41	144	128	204	87	19	45	30	15	43	68	26	31
Canada.....	21	77	14	38	32	36	61	20	46	24	18	24	25
England.....	56	126	19	79	101	73	93	73	60	43	29	93	54
France.....	43	59	39	27	8	12	27	11	29	15	25	10	42
Germany.....	2,063	1,764	1,600	852	572	991	372	1,214	1,161	1,409	1,234	1,568	1,549
Holland.....	25	17	13	6	5	16	5	11	13	7	7	4	11
Hungary.....	49	273	1,728	99	23	338	25	117	25	422	387	62	62
Ireland.....	196	564	49	195	626	335	268	236	319	99	68	138	120
Italy.....	50	18	21	75	155	21	531	10	2	7	20	4	116
Roumania.....		9	13	113	82	5	92	11	9	4	2		
Russia.....	19	155	76	1,341	1,338	238	751	4	19	90	9	55	16
Scotland.....	15	25	5	22	18	11	19	10	11	10	11	34	10
Switzerland.....	76	43	44	19	13	10	19	17	12	24	27	41	32
Turkey.....	1	1	1	9	82	63	95	37				1	2
Other foreign countries.....	32	32	24	29	24	34	130	27	21	37	14	18	19
MALES OF VOTING AGE													
Total number.....	5,061	6,117	4,752	4,376	5,222	4,213	6,102	4,748	4,491	4,311	3,981	5,518	4,170
Native white—Native parentage.....	1,262	2,082	1,000	1,316	1,485	1,254	2,081	1,870	1,414	1,222	1,222	1,923	1,142
Native white—Foreign or mixed parentage.....	2,526	2,420	1,855	1,371	1,448	1,505	999	1,878	2,193	1,908	1,608	2,353	1,917
Foreign-born white.....	1,239	1,322	1,824	1,316	1,364	1,029	1,304	930	842	1,089	999	1,047	1,014
Naturalized.....	1,013	960	750	688	829	637	666	696	724	608	603	894	804
Negro.....	34	293	72	372	925	364	1,710	70	42	92	152	195	97
ILLITERACY AND SCHOOL ATTENDANCE													
Total number 10 years old and over.....	14,533	18,358	12,757	12,091	13,795	11,397	13,546	12,699	13,193	11,761	10,154	15,762	11,874
Number illiterate.....	120	844	612	428	746	510	873	340	168	242	222	291	225
Illiterate males of voting age.....	38	333	256	144	279	229	401	138	60	116	107	113	104
Total number 6 to 20 years, inclusive.....	4,170	4,698	4,386	3,587	4,168	3,716	2,756	4,675	4,453	3,796	3,631	5,739	4,475
Number attending school.....	2,500	3,091	2,499	1,895	2,412	2,105	1,360	2,843	2,966	2,198	2,246	3,535	2,694
DWELLINGS AND FAMILIES													
Dwellings, number.....	2,512	3,105	1,465	1,590	1,632	1,561	1,610	2,212	2,659	1,535	1,394	3,402	2,446
Families, number.....	4,161	4,176	3,815	3,597	4,154	3,408	3,598	3,718	3,543	3,541	2,809	4,419	3,145

CLEVELAND.

SUBJECT.	THE CITY.	WARD.												
		1	2	3	4	5	6	7	8	9	10	11	12	13
SEX, COLOR, AND NATIVITY														
Total population, 1910.....	560,663	22,453	21,209	17,990	15,781	15,985	31,208	22,313	14,693	7,958	14,142	19,440	17,086	22,504
Male.....	289,262	11,248	10,622	9,016	8,282	7,983	15,666	11,781	7,932	5,012	7,418	11,320	8,226	12,989
Female.....	271,401	11,205	10,587	8,964	7,499	8,002	15,542	10,532	6,761	2,946	6,724	8,120	8,860	9,515
Native white—Native parentage.....	132,314	8,361	4,661	5,755	3,317	2,913	8,477	3,361	2,751	3,052	5,329	2,373	3,507	1,275
Native white—Foreign or mixed parentage.....	223,908	8,640	10,216	7,318	6,779	7,794	14,019	9,739	5,777	1,956	4,056	6,804	5,635	7,065
Foreign-born white.....	195,703	5,413	6,817	4,891	5,647	5,271	8,694	9,195	6,100	2,470	4,427	10,239	5,136	12,797
Negro.....	8,448	37	13	13	35	5	18	18	62	371	315	13	2,792	1,360
Indian, Chinese, and Japanese.....	290	8	2	3	3	2			3	109	15	11	16	7
FOREIGN-BORN WHITE: Born in—														
Austria.....	42,059	214	1,796	137	537	1,261	1,799	3,357	827	187	171	3,850	497	1,611
Canada.....	9,107	705	228	524	217	159	348	210	371	229	483	195	375	206
England.....	11,415	691	244	455	203	137	399	109	252	213	395	243	351	188
Germany.....	41,406	1,437	2,428	798	1,826	2,700	4,188	2,534	440	362	647	1,417	969	387
Holland.....	1,076	81	117	164	16	16	75	2	11	7	27	6	26	3
Hungary.....	31,503	902	989	1,241	1,900	404	993	1,026	1,968	215	1,118	2,157	512	1,948
Ireland.....	11,316	637	212	921	343	63	227	334	1,464	339	440	636	536	306
Italy.....	10,836	268	19	7	70	188	30	34	26	257	92	20	144	5,348
Roumania.....	761	6	3	115	1	1	4	2	4	5	7	21	49	109
Russia.....	25,477	24	52	25	128	190	220	1,279	268	114	674	1,350	1,348	2,298
Scotland.....	2,879	207	64	159	44	22	86	45	96	62	110	87	82	27
Sweden.....	1,657	37	22	35	17	12	43	23	51	37	25	11	48	13
Switzerland.....	1,373	50	87	52	72	71	143	65	24	35	47	56	31	28
Turkey.....	748	4	3	5	10		3	15	72	174	38	27	9	216
Wales.....	1,297	34	23	38	21	5	29	29	12	18	11	43	23	9
Other foreign countries.....	2,793	116	49	262	94	42	107	41	212	216	142	90	136	100
MALES OF VOTING AGE														
Total number.....	177,386	6,954	5,883	5,822	4,745	4,649	8,895	6,969	5,064	4,252	5,594	7,195	5,288	8,059
Native white—Native parentage.....	36,358	2,088	911	1,356	645	564	1,911	830	777	1,672	2,076	600	1,006	555
Native white—Foreign or mixed parentage.....	43,058	2,303	2,121	1,968	1,532	1,648	2,844	1,596	1,199	919	1,176	997	1,087	565
Foreign-born white.....	94,431	2,553	2,845	2,486	2,554	2,434	4,129	4,539	3,061	1,991	2,177	5,584	2,138	6,293
Naturalized.....	40,482	1,473	1,905	1,240	1,323	1,504	2,549	1,575	1,054	590	738	1,160	989	1,229
Negro.....	3,298	8	4	9	12	1	11	4	24	173	152	7	1,029	643
ILLITERACY AND SCHOOL ATTENDANCE														
Total number 10 years old and over.....	447,731	18,218	16,591	14,891	12,652	12,773	24,369	17,161	11,800	7,374	12,442	15,098	14,096	17,059
Number illiterate.....	20,676	362	214	292	282	184	325	1,091	561	241	357	1,511	359	4,417
Illiterate males of voting age.....	9,418	155	49	140	93	65	121	521	181	107	160	819	100	2,259
Total number 6 to 20 years, inclusive.....	150,887	5,923	6,052	4,607	4,498	4,702	9,175	6,175	3,809	1,118	2,688	4,890	4,333	5,908
Number attending school.....	92,694	3,954	4,114	2,948	2,817	2,774	5,938	3,411	2,215	486	1,429	2,689	2,717	3,386
DWELLINGS AND FAMILIES														
Dwellings, number.....	90,465	4,475	4,101	3,363	2,915	2,907	5,989	3,125	2,149	1,609	1,925	2,473	2,686	2,176
Families, number.....	124,822	5,404	4,840	4,169	3,787	3,782	7,079	4,859	3,270	1,574	3,099	3,869	4,069	4,427

TABLE V.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR WARDS OF CITIES OF 50,000 OR MORE—Continued.

CLEVELAND—Continued.

SUBJECT.	WARD.													Not returned by wards.
	14	15	16	17	18	19	20	21	22	23	24	25	26	
SEX, COLOR, AND NATIVITY														
Total population, 1910.....	17,674	24,532	19,873	32,509	26,047	30,367	18,718	14,619	17,901	22,926	32,922	17,361	41,803	659
Male.....	8,343	12,536	10,016	17,114	13,747	16,074	9,838	6,734	8,768	12,836	16,444	7,589	21,092	636
Female.....	9,331	11,996	9,857	15,395	12,300	14,293	8,880	7,885	9,133	10,090	16,478	9,772	20,711	23
Native white—Native parentage.....	4,635	1,692	1,954	2,164	5,734	5,482	4,295	5,721	6,858	3,499	10,500	9,207	15,171	270
Native white—Foreign or mixed parentage.....	6,195	9,481	10,195	16,924	11,645	11,874	7,472	5,244	6,789	8,987	13,716	4,993	14,467	123
Foreign-born white.....	5,699	12,937	7,708	13,415	8,581	12,750	6,858	3,440	4,163	10,418	8,628	2,823	11,440	246
Negro.....	1,126	421	12	6	87	254	87	206	78	20	51	328	705	15
Indian, Chinese, and Japanese.....	19	1	4	.....	.....	7	6	8	13	2	27	10	20	.....
FOREIGN-BORN WHITE: Born in—														
Austria.....	444	1,314	5,644	4,277	2,310	1,943	776	1,064	236	5,178	263	172	1,684	10
Canada.....	366	116	43	84	258	354	309	401	452	232	743	501	901	97
England.....	493	297	206	374	1,050	506	434	471	558	432	884	475	1,247	18
Germany.....	725	837	1,309	4,114	1,549	1,164	1,733	626	1,642	2,202	3,018	621	1,713	20
Holland.....	21	26	1	11	33	17	132	14	48	18	66	14	42	.....
Hungary.....	998	2,311	194	264	507	7,883	2,100	233	186	650	158	202	442	2
Ireland.....	302	117	122	178	887	345	310	243	395	425	642	321	550	21
Italy.....	17	72	11	3	256	23	21	17	12	23	56	3	3,818	1
Roumania.....	70	229	.....	6	3	4	45	5	42	4	1	1	19	1
Russia.....	1,956	6,960	120	3,732	954	160	730	73	112	616	1,769	57	239	9
Scotland.....	98	23	13	58	215	158	67	109	140	111	342	167	273	12
Sweden.....	60	6	3	20	32	33	24	61	184	256	323	123	143	15
Switzerland.....	35	30	12	28	39	47	62	26	60	59	101	23	87	3
Turkey.....	4	21	4	90	19	.....	.....	.....	4	8	2	10	4	.....
Wales.....	29	10	8	137	404	40	34	25	34	74	89	31	86	1
Other foreign countries.....	81	68	18	39	65	73	85	72	95	92	168	102	192	36
MALES OF VOTING AGE														
Total number.....	5,373	6,607	5,534	8,947	8,122	9,630	6,077	4,462	5,842	8,060	10,167	5,260	13,385	571
Native white—Native parentage.....	1,427	374	295	353	1,425	1,552	1,062	1,647	2,123	847	2,877	2,720	4,431	234
Native white—Foreign or mixed parentage.....	1,189	974	1,757	1,767	2,134	1,606	1,529	1,306	1,734	1,486	3,000	1,400	3,116	105
Foreign-born white.....	2,334	5,095	3,473	6,823	4,526	6,371	3,437	1,435	1,945	5,718	4,250	1,039	5,583	218
Naturalized.....	1,326	2,076	1,891	2,751	1,967	2,087	1,445	904	1,285	1,626	2,391	656	2,636	112
Negro.....	412	163	5	4	37	94	43	67	29	8	16	92	237	14
ILLITERACY AND SCHOOL ATTENDANCE														
Total number 10 years old and over.....	14,946	18,554	15,343	23,889	20,233	23,482	14,885	12,530	15,368	17,739	26,686	15,417	33,478	657
Number illiterate.....	355	1,394	517	1,938	1,409	443	278	217	92	905	762	57	2,111	2
Illiterate males of voting age.....	70	367	157	958	746	169	127	80	36	495	387	7	1,047	2
Total number 6 to 20 years, inclusive.....	4,547	8,236	6,111	10,949	7,387	8,239	5,183	3,415	4,196	5,654	8,619	3,777	9,979	67
Number attending school.....	2,875	5,572	3,473	6,070	4,647	5,128	3,229	2,047	2,490	3,111	5,490	2,601	6,478	5
DWELLINGS AND FAMILIES														
Dwellings, number.....	2,572	2,753	3,356	4,518	4,364	4,514	2,957	2,661	3,094	3,012	6,111	3,216	7,989	55
Families, number.....	3,975	4,918	4,519	6,408	5,045	6,684	4,107	3,567	4,484	4,812	7,752	4,376	9,892	55

COLUMBUS.

SUBJECT.	THE CITY.	WARD.											
		1	2	3	4	5	6	7	8	9	10	11	12
SEX, COLOR, AND NATIVITY													
Total population, 1910.....	181,511	19,351	15,890	16,130	17,911	13,287	9,154	10,016	10,285	20,443	12,156	14,384	22,504
Male.....	91,452	10,018	7,798	7,418	8,925	7,039	4,663	5,109	6,358	9,961	6,216	7,276	10,671
Female.....	90,059	9,333	8,092	8,712	8,986	6,248	4,491	4,907	3,927	10,482	5,940	7,108	11,833
Native white—Native parentage.....	116,846	9,794	7,571	11,445	10,440	8,013	5,748	5,948	6,440	15,409	8,714	9,675	17,649
Native white—Foreign or mixed parentage.....	35,578	5,814	4,308	3,048	2,757	2,974	1,394	2,608	1,848	3,276	1,972	2,471	3,108
Foreign-born white.....	16,285	3,494	2,473	939	1,376	1,119	782	1,196	973	1,154	733	1,171	875
Negro.....	12,739	249	1,585	697	3,332	1,172	1,213	256	1,020	599	730	1,066	870
Indian, Chinese, and Japanese.....	63	.....	3	1	6	9	17	8	4	5	7	1	2
FOREIGN-BORN WHITE: Born in—													
Austria.....	818	375	77	38	80	48	23	36	72	31	4	23	11
Canada.....	664	34	28	88	65	47	54	32	51	66	31	49	119
England.....	1,126	65	78	111	89	110	67	35	80	103	83	117	191
France.....	150	27	19	20	5	2	17	8	6	19	7	7	13
Germany.....	5,722	1,857	1,056	354	285	151	148	703	277	374	101	186	230
Greece.....	123	3	.....	3	8	.....	.....	.....	.....	.....	.....	.....	.....
Hungary.....	970	674	16	34	11	.....	11	51	6	1	24	16	.....
Ireland.....	1,809	36	39	96	221	39	4	76	79	8	5	41	19
Italy.....	1,619	103	14	19	381	297	93	51	181	188	301	184	122
Russia.....	1,528	74	1,015	67	15	20	93	76	25	171	77	367	38
Scotland.....	274	9	14	30	29	16	26	17	23	28	18	55	14
Switzerland.....	339	69	57	18	38	7	7	32	23	48	10	14	29
Turkey.....	181	42	21	4	18	13	30	7	7	4	3	2	6
Wales.....	534	19	21	32	64	143	24	7	37	64	35	63	25
Other foreign countries.....	478	107	38	25	72	50	31	17	26	33	15	13	51
* MALES OF VOTING AGE													
Total number.....	60,892	6,125	4,798	4,832	5,683	5,003	3,562	3,552	4,814	6,364	4,286	4,915	6,978
Native white—Native parentage.....	36,090	2,625	2,063	3,215	3,021	2,948	2,079	1,919	2,637	4,473	2,931	2,997	5,182
Native white—Foreign or mixed parentage.....	11,244	1,511	1,076	980	821	1,008	499	881	302	1,080	674	843	1,060
Foreign-born white.....	8,487	1,897	1,077	405	741	599	373	631	662	589	385	658	449
Naturalized.....	4,453	808	621	283	351	337	183	355	382	356	201	277	290
Negro.....	5,028	92	579	231	1,077	447	596	116	679	220	290	416	285
ILLITERACY AND SCHOOL ATTENDANCE													
Total number 10 years old and over.....	153,667	15,584	12,916	13,925	14,676	11,581	8,472	8,753	8,911	17,042	10,632	12,294	18,971
Number illiterate.....	4,442	577	558	90	675	207	192	168	308	1,062	137	292	176
Illiterate males of voting age.....	2,063	379	210	39	391	83	100	77	177	305	56	173	73
Total number 6 to 20 years, inclusive.....	44,354	5,456	4,357	3,926	4,510	2,906	1,825	2,338	2,077	5,415	2,825	3,347	5,372
Number attending school.....	27,631	3,147	2,678	2,914	2,888	1,701	1,136	1,269	1,168	3,345	1,612	2,002	3,771
DWELLINGS AND FAMILIES													
Dwellings, number.....	39,580	4,244	3,873	3,661	3,981	2,812	1,522	2,228	1,834	4,036	2,544	3,321	5,524
Families, number.....	42,645	4,403	3,971	3,842	4,181	3,057	2,000	2,677	2,011	4,215	2,949	3,557	5,782

STATISTICS OF POPULATION.

TABLE V.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR WARDS OF CITIES OF 50,000 OR MORE—Continued.

DAYTON.

SUBJECT.	THE CITY.	WARD.									
		1	2	3	4	5	6	7	8	9	10
SEX, COLOR, AND NATIVITY											
Total population, 1910.....	116,577	5,256	7,049	16,451	14,180	12,719	13,877	9,545	16,371	9,569	11,560
Male.....	58,848	2,537	3,598	8,934	6,748	6,630	7,071	4,720	8,137	4,680	5,793
Female.....	57,729	2,719	3,451	7,517	7,432	6,089	6,806	4,825	8,234	4,889	5,767
Native white—Native parentage.....	72,301	3,486	4,694	7,702	10,511	8,601	9,225	5,974	8,534	5,446	8,128
Native white—Foreign or mixed parentage.....	25,559	1,073	1,394	4,243	2,322	1,545	1,928	2,151	5,478	2,929	2,496
Foreign-born white.....	13,847	482	544	4,162	898	1,917	762	784	2,293	1,145	860
Negro.....	4,842	212	407	344	448	655	1,960	633	62	49	72
Chinese and Japanese.....	28	3	10	.....	1	1	2	3	4	.....	4
FOREIGN-BORN WHITE: Born in—											
Austria.....	660	6	21	496	10	29	12	12	37	24	13
Canada.....	392	30	33	38	85	21	30	26	43	16	70
England.....	461	34	38	54	80	41	32	34	57	30	61
France.....	93	8	6	19	10	4	6	12	11	6	11
Germany.....	5,816	142	219	1,231	350	218	375	480	1,483	822	496
Greece.....	117	15	42	8	2	31	.....	18	.....	1	.....
Hungary.....	2,761	36	9	1,233	197	1,260	6	6	6	4	4
Ireland.....	974	95	48	280	46	58	138	81	56	59	113
Italy.....	356	60	11	60	13	.....	123	11	23	14	41
Russia.....	1,526	11	89	662	20	69	8	71	465	118	13
Scotland.....	140	12	7	18	24	2	9	6	39	12	11
Sweden.....	42	3	4	7	1	.....	.....	2	21	.....	4
Switzerland.....	118	10	4	17	15	4	12	9	15	22	10
Turkey.....	215	5	6	1	20	165	.....	6	11	.....	1
Other foreign countries.....	176	15	7	45	19	14	11	10	26	17	12
MALES OF VOTING AGE											
Total number.....	38,236	1,939	2,830	5,502	4,375	4,429	4,435	3,236	4,879	2,895	3,716
Native white—Native parentage.....	21,281	1,255	1,789	1,976	3,006	2,609	2,693	1,845	2,201	1,505	2,402
Native white—Foreign or mixed parentage.....	7,848	371	532	1,056	770	458	653	716	1,598	853	861
Foreign-born white.....	7,303	227	299	2,363	471	1,139	413	381	1,055	535	420
Naturalized.....	3,451	145	171	685	246	160	278	270	761	419	316
Negro.....	1,781	84	200	107	127	223	674	291	24	22	29
ILLITERACY AND SCHOOL ATTENDANCE											
Total number 10 years old and over.....	96,665	4,746	6,454	13,023	11,823	10,500	11,338	8,247	13,209	7,792	9,528
Number illiterate.....	2,224	65	94	524	45	432	343	132	370	141	78
Illiterate males of voting age.....	1,069	21	33	282	25	271	179	64	118	47	29
Total number 6 to 20 years, inclusive.....	28,726	941	1,241	4,523	3,222	2,969	3,664	2,159	4,541	2,520	2,941
Number attending school.....	17,624	521	718	2,614	2,188	1,779	2,246	1,278	2,836	1,576	1,873
DWELLINGS AND FAMILIES											
Dwellings, number.....	26,692	1,009	1,441	3,490	3,624	2,912	3,248	2,160	3,824	2,269	2,715
Families, number.....	28,370	1,212	1,769	3,601	3,751	3,179	3,399	2,327	3,941	2,392	2,799

TOLEDO.

SUBJECT.	THE CITY.	WARD.												
		1	2	3	4	5	6	7	8	9	10	11	12	13
SEX, COLOR, AND NATIVITY														
Total population, 1910.....	168,497	11,317	8,515	17,129	12,365	9,074	6,751	17,947	15,304	15,948	15,512	11,452	13,170	14,013
Male.....	84,691	5,746	4,312	8,730	5,613	4,185	3,560	8,571	7,532	8,135	8,070	5,580	6,678	7,979
Female.....	83,806	5,571	4,203	8,399	6,752	4,889	3,191	9,376	7,772	7,813	7,442	5,872	6,492	6,034
Native white—Native parentage.....	75,147	5,444	4,272	8,745	6,399	4,535	4,121	11,422	7,187	2,397	8,001	5,433	7,204	4,987
Native white—Foreign or mixed parentage.....	59,383	4,011	2,660	3,202	4,049	2,606	1,627	4,746	5,423	8,324	5,016	4,170	4,092	4,457
Foreign-born white.....	32,037	1,782	1,431	5,064	1,888	1,370	855	1,726	2,488	5,001	2,435	1,620	1,825	4,552
Negro.....	1,877	79	147	116	23	556	134	45	205	226	59	224	48	15
Indian, Chinese, and Japanese.....	53	1	5	2	6	7	14	8	1	.....	1	5	1	2
FOREIGN-BORN WHITE: Born in—														
Austria.....	879	21	31	239	56	50	20	33	35	96	43	15	24	216
Bulgaria.....	227	3	1	.....	.....	.....	1	.....	.....	24	.....	.....	73	120
Canada—French.....	681	81	61	57	46	19	9	68	32	4	23	21	149	111
Canada—Other.....	2,435	221	171	81	232	162	162	401	198	87	196	160	166	198
England.....	1,662	190	100	92	144	126	91	215	132	36	119	87	148	182
France.....	245	21	16	30	12	16	17	15	12	7	24	12	29	34
Germany.....	15,308	833	474	2,854	486	309	236	598	1,550	4,012	1,630	785	840	646
Hungary.....	2,927	2	11	28	57	33	19	23	18	.....	9	6	95	2,626
Ireland.....	1,971	98	114	76	113	187	83	168	223	133	171	356	129	120
Italy.....	1,971	12	12	2	.....	54	34	8	6	25	5	41	2	69
Russia.....	3,340	36	201	1,450	635	292	54	21	130	450	33	5	19	14
Scotland.....	328	19	15	9	23	15	25	33	39	11	26	33	30	50
Switzerland.....	744	76	40	76	25	26	17	69	49	96	95	57	59	59
Turkey.....	243	2	144	3	10	16	20	4	3	5	3	5	4	24
Other foreign countries.....	777	107	41	66	49	65	67	70	61	15	58	37	58	83
MALES OF VOTING AGE														
Total number.....	52,748	3,472	3,084	4,481	3,579	3,004	2,937	5,523	4,503	4,301	5,287	3,673	3,842	5,062
Native white—Native parentage.....	21,209	1,423	1,446	1,767	1,643	1,397	1,714	3,279	1,966	489	2,427	1,486	1,805	1,367
Native white—Foreign or mixed parentage.....	14,955	1,160	855	1,286	1,108	796	701	1,427	1,231	1,383	1,589	1,340	1,086	993
Foreign-born white.....	15,826	866	719	2,397	813	589	441	801	1,240	2,321	1,244	769	932	2,694
Naturalized.....	8,752	551	439	1,221	527	381	244	539	812	1,439	900	438	527	734
Negro.....	719	22	60	31	10	217	69	12	65	103	27	74	18	6
ILLITERACY AND SCHOOL ATTENDANCE														
Total number 10 years old and over.....	137,762	9,141	7,511	12,770	10,494	8,109	6,382	14,876	12,351	12,014	12,858	9,747	10,328	11,181
Number illiterate.....	3,809	99	84	1,246	102	106	21	57	145	675	564	131	76	503
Illiterate males of voting age.....	1,802	41	31	620	31	30	7	18	46	321	297	47	27	286
Total number 6 to 20 years, inclusive.....	45,314	3,150	1,879	5,766	3,234	1,909	1,043	4,534	4,269	5,332	3,736	2,850	3,884	3,728
Number attending school.....	28,198	2,020	1,126	3,266	2,291	1,164	426	3,141	2,673	3,068	2,322	1,856	2,693	2,252
DWELLINGS AND FAMILIES														
Dwellings, number.....	35,888	2,620	1,651	3,332	2,606	2,014	1,101	4,137	3,570	3,190	3,102	2,648	3,075	2,792
Families, number.....	39,677	2,746	2,176	3,556	2,938	2,519	1,884	4,462	3,769	3,388	3,167	2,919	3,125	3,028

TABLE V.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION FOR WARDS OF CITIES OF 50,000 OR MORE—Continued.

YOUNGSTOWN.

SUBJECT.	THE CITY.	WARD.						
		1	2	3	4	5	6	7
SEX, COLOR, AND NATIVITY								
Total population, 1910.....	79,066	9,393	18,630	9,903	15,324	7,485	11,886	6,445
Male.....	43,649	4,624	10,870	5,688	7,863	3,873	6,944	3,787
Female.....	35,417	4,769	7,760	4,215	7,461	3,612	4,942	2,658
Native white—Native parentage.....	25,595	5,060	4,386	2,227	7,189	3,078	3,051	604
Native white—Foreign or mixed parentage.....	26,654	2,760	6,244	3,736	5,123	2,369	3,713	2,709
Foreign-born white.....	24,860	1,417	7,486	3,820	2,815	1,683	4,526	3,113
Negro.....	1,936	150	503	119	194	355	596	19
Indian and Chinese.....	21	6	11	1	3			
FOREIGN-BORN WHITE: Born in—								
Austria.....	4,005	65	678	1,059	303	93	1,603	204
Canada.....	341	34	51	26	90	36	55	5
England.....	2,239	198	460	262	591	296	354	78
Germany.....	2,100	220	299	183	236	582	263	317
Greece.....	134	18	68		2	24	22	
Hungary.....	5,490	195	1,713	1,106	159	81	1,152	1,084
Ireland.....	1,842	211	626	267	264	157	252	65
Italy.....	3,604	26	2,007	300	131	34	91	1,015
Roumania.....	158	4	64	63	11	6	4	6
Russia.....	1,691	68	682	135	150	53	392	211
Scotland.....	819	72	193	155	195	134	66	4
Sweden.....	567	51	41	87	277	31	42	38
Turkey.....	253	3	188		12	8	42	
Wales.....	1,181	144	313	140	318	106	145	15
Other foreign countries.....	436	58	103	43	76	42	43	71
MALES OF VOTING AGE								
Total number.....	28,157	3,422	7,199	3,511	4,733	2,438	4,649	2,214
Native white—Native parentage.....	7,795	1,876	1,376	600	2,023	936	869	115
Native white—Foreign or mixed parentage.....	5,533	820	1,253	643	1,236	534	742	305
Foreign-born white.....	14,027	639	4,321	2,219	1,407	852	2,805	1,784
Naturalized.....	4,268	403	1,248	584	769	295	475	494
Negro.....	785	82	232	48	64	116	253	10
ILLITERACY AND SCHOOL ATTENDANCE								
Total number 10 years old and over.....	63,121	8,329	14,949	7,001	12,027	6,003	9,554	4,658
Number illiterate.....	4,513	86	1,950	256	285	116	988	832
Illiterate males of voting age.....	2,532	15	1,098	132	106	24	642	515
Total number 6 to 20 years, inclusive.....	20,243	1,952	4,736	2,700	4,087	1,988	2,960	1,820
Number attending school.....	11,091	1,200	2,689	1,545	2,215	1,039	1,433	970
DWELLINGS AND FAMILIES								
Dwellings, number.....	14,280	1,884	2,967	1,605	3,324	1,553	2,019	928
Families, number.....	16,228	2,078	3,532	1,929	3,546	1,752	2,264	1,127

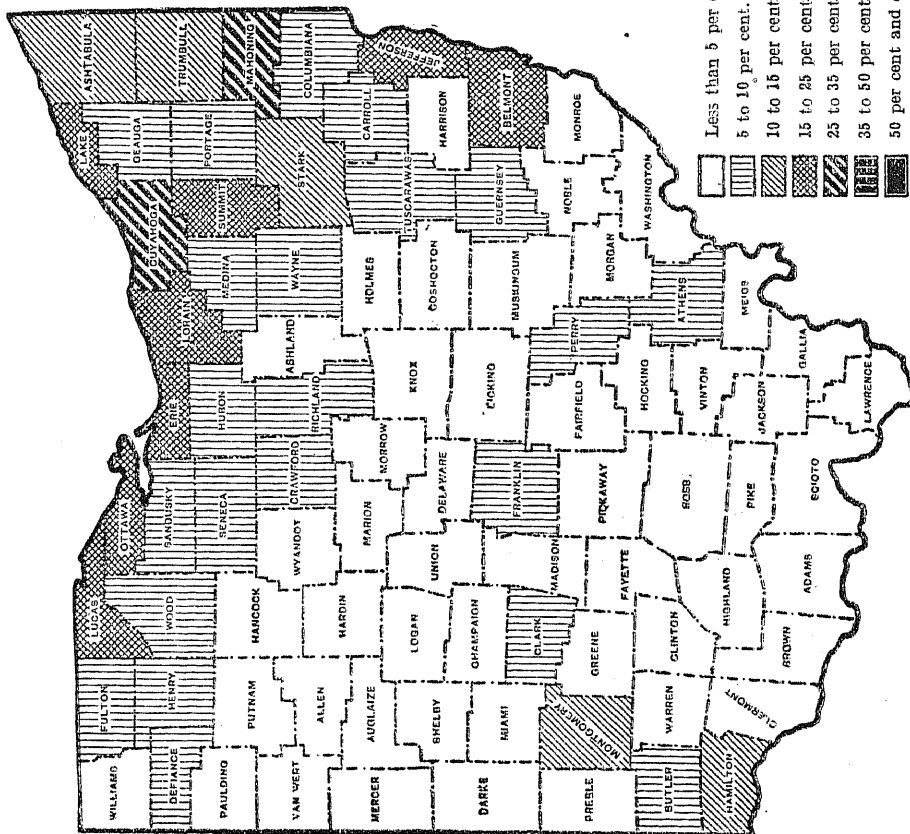
NOTES REGARDING CHANGES IN BOUNDARIES, ETC., OF INCORPORATED PLACES.

AERON.—Part of Portage township annexed in 1903.
 ASHTABULA.—Part of Ashtabula township annexed in 1909.
 BARNESVILLE.—Part of Warren township annexed in 1910.
 BELLAIRE.—Part of Pultney township annexed in 1906.
 BUCYRUS.—Part of Bucyrus township annexed in 1910.
 CANTON.—Part of Plain township annexed in 1905.
 CINCINNATI.—Storrs township and parts of Delhi, Green, Millcreek, and Spencer townships annexed between 1890 and 1900; parts of Delhi township annexed in 1902 and 1909; parts of Millcreek township (including Bond Hill and Winton Place villages and part of Evanston village) annexed in 1902, 1903, 1904, and 1907; parts of Columbia township (including Hyde Park village and part of Evanston village) annexed in 1903; and Spencer township and part of Anderson township annexed in 1909. Since April 15, 1910, the following places, with a combined population of 14,020, have been annexed to Cincinnati: Carthage, College Hill, Delhi, Madisonville, Mount Airy, Mount Washington, and Saylor Park. Including the population of these places the population of Cincinnati in 1910 would be 377,611.
 CLEVELAND.—Parts of Brooklyn, East Cleveland, and Newburgh townships annexed between 1890 and 1900; Corlett township annexed in 1909; parts of Glenville township annexed in 1902 and 1905; parts of Brooklyn township (including South Brooklyn village) annexed in 1904 and 1905; part of Newburgh Heights township annexed in 1905; and part of Collinwood township annexed in 1910.
 CLEVELAND HEIGHTS.—Incorporated in 1902.
 COLUMBUS.—Parts of Marion township annexed in 1909 and 1910 and parts of Clinton, Franklin, and Mifflin townships annexed in 1910.

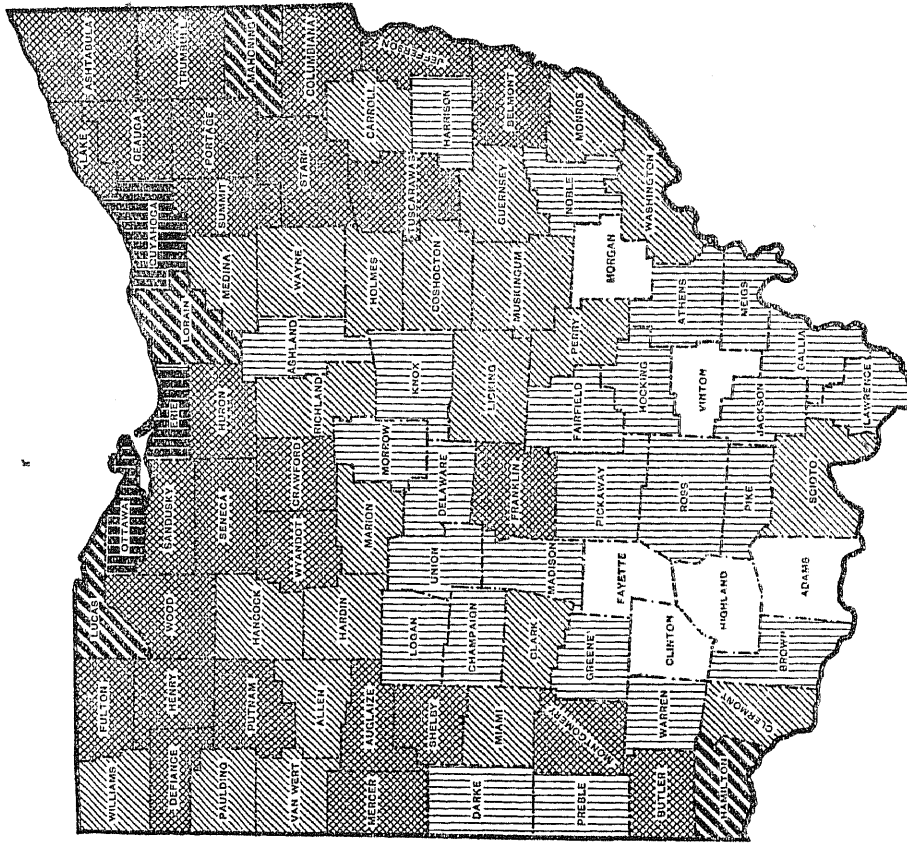
DAYTON.—Parts of Harrison township annexed in 1902, 1905, and 1909; parts of Van Buren township annexed in 1907 and 1909; and part of Mad River township annexed in 1909.
 EAST LIVERPOOL.—Parts of Liverpool township annexed in 1900, 1901, 1902, 1903, and 1908.
 EAST YOUNGSTOWN.—Incorporated in 1908.
 HAMILTON.—Parts of Fairfield and St. Clair townships annexed in 1908.
 LIMA.—Parts of German and Bath townships annexed in 1902 and 1905, respectively; parts of Lima city annexed to Bath and German townships in 1903 and 1906, respectively.
 MARIETTA.—Part of Marietta township annexed in 1903.
 MARION.—Part of Marion township annexed in 1902.
 NEWARK.—Part of Newark township annexed in 1907.
 NEWBURGH.—Part taken to form Corlett township in 1907, and part annexed to Bedford township in 1904.
 SPRINGFIELD.—Part of Springfield township annexed in 1910.
 STRUTHERS.—Incorporated in 1902.
 WARREN.—Parts of Howland and Warren townships annexed in 1900 and 1907.
 YOUNGSTOWN.—Part annexed to Youngstown township in 1902; parts of Youngstown township annexed in 1902, 1903, 1904, 1907, and 1908.
 ZANESVILLE.—Part annexed to Washington township in 1905; part of Falls township annexed in 1908.

PROPORTION OF FOREIGN-BORN WHITE AND NATIVE WHITE OF FOREIGN OR MIXED PARENTAGE OF OHIO, BY COUNTIES: 1910.

PER CENT OF FOREIGN-BORN WHITE IN TOTAL POPULATION.



PER CENT OF NATIVE WHITE OF FOREIGN OR MIXED PARENTAGE IN TOTAL POPULATION.



CHAPTER 3.

STATISTICS OF AGRICULTURE FOR THE STATE AND ITS COUNTIES.

Introduction.—This chapter presents a complete statement of the statistics of agriculture for Ohio collected at the census of 1910. Statistics of farms and farm property relate to April 15, 1910; those of farm products, expenses, and receipts are for the calendar year 1909.

Definitions.—To assist in securing comparability for its statistics of agriculture, the Bureau of the Census provided the enumerators with certain definitions and instructions, the more important of which were essentially as given below.

Farm.—A "farm" for census purposes is all the land which is directly farmed by one person managing and conducting agricultural operations, either by his own labor alone or with the assistance of members of his household or hired employees. The term "agricultural operations" is used as a general term referring to the work of growing crops, producing other agricultural products, and raising animals, fowls, and bees. A "farm" as thus defined may consist of a single tract of land, or of a number of separate and distinct tracts, and these several tracts may be held under different tenures, as where one tract is owned by the farmer and another tract is hired by him. Further, when a landowner has one or more tenants, renters, croppers, or managers, the land operated by each is considered a "farm."

In applying the foregoing definition of a "farm" for census purposes, enumerators were instructed to report as a "farm" any tract of 3 or more acres used for agricultural purposes, and also any tract containing less than 3 acres which produced at least \$250 worth of farm products in the year 1909.

Farmer.—A "farmer" or "farm operator," according to the census definition, is a person who directs the operations of a farm. Hence owners of farms who do not themselves direct the farm operations are not reported as "farmers." Farmers are divided by the Bureau of the Census into three general classes according to the character of their tenure, namely, owners, tenants, and managers.

Farm owners include (1) farmers operating their own land only, and (2) those operating both their own land and some land hired from others. The latter are sometimes referred to in the census reports as "part owners," the term "owners" being then restricted to those owning all their land.

Farm tenants are farmers who, as tenants, renters, or croppers, operate hired land only. They were reported in 1910 in three classes: (1) *Share tenants*—those who pay a certain share of the products, as one-half, one-third, or one-quarter; (2) *share-cash tenants*—those who pay a share of the products for part of the land rented by them and cash for part; and (3) *cash tenants*—those who pay a cash rental or a stated amount of labor or products, such as \$7, 10 bushels of wheat, or 100 pounds of seed cotton per acre.

Managers are farmers who are conducting farm operations for the owner for wages or a salary.

Farm land.—Farm land is divided into (1) improved land, (2) woodland, and (3) all other unimproved land. The same classification was followed in 1880. At former censuses, except that of 1880, farm land was divided into improved land and unimproved land, woodland being included with unimproved land. *Improved*

land includes all land regularly tilled or mowed, land pastured and cropped in rotation, land lying fallow, land in gardens, orchards, vineyards, and nurseries, and land occupied by farm buildings. *Woodland* includes all land covered with natural or planted forest trees, which produce, or later may produce, firewood or other forest products. *All other unimproved land* includes brush land, rough or stony land, swamp land, and any other land which is not improved or in forest. The census classification of farm land as "improved land," "woodland," and "other unimproved land" is one not always easy for the farmers or enumerators to make, and the statistics therefore must be considered at best only a close approximation.

Total value of farm products.—No attempt has been made at this census to compute or even to estimate approximately the total value of farm products. Among the numerous difficulties which stand in the way of obtaining a total which would be at once comprehensive, free from duplication, and confined exclusively to the products of a definite period of time are the following:

(1) The duplication resulting from the feeding of farm crops to farm live stock, when the value both of the products derived from such live stock and of the crops are included in the same total. In 1900 an attempt was made to eliminate this duplication by means of an inquiry as to the total value of the products of each farm fed to the live stock on that farm, but, aside from the fact that this would not eliminate the duplication where the products of one farm are fed to the live stock of another farm, it is believed that the farmers were unable to make even approximately accurate answers to the inquiry, and it was accordingly not included in the schedule for 1910.

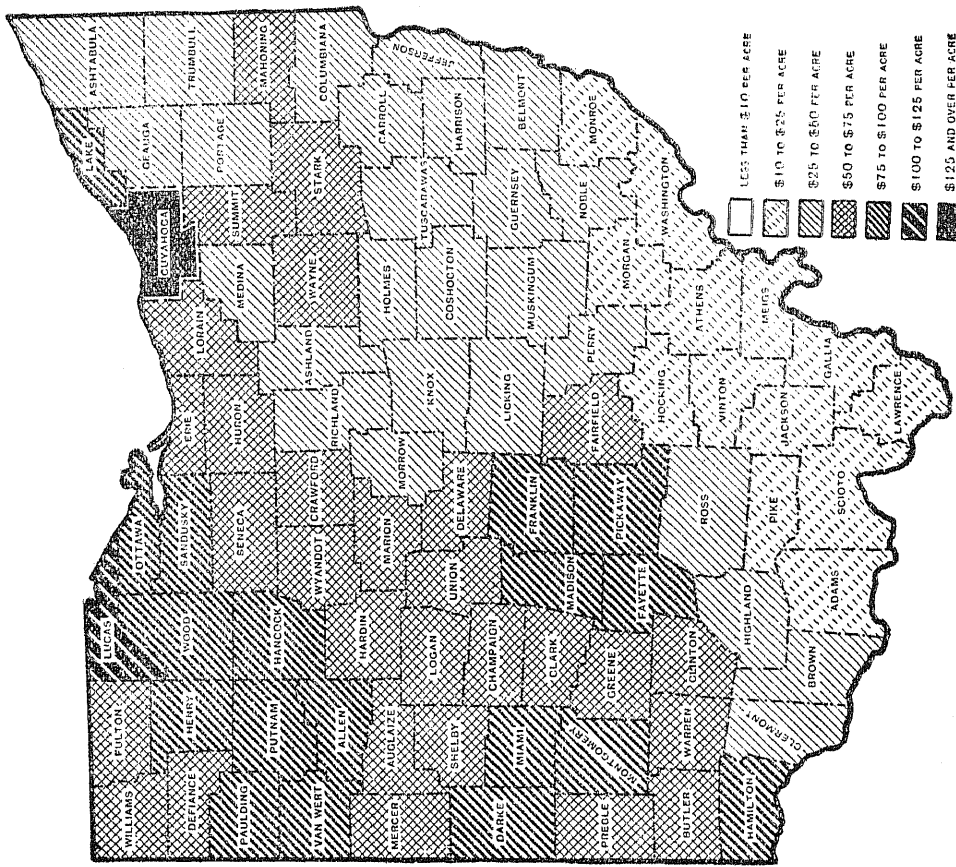
(2) The fact that farmers may buy domestic animals during the census year which are subsequently sold or slaughtered during the same year, and that it is impossible to eliminate the duplication accurately; and the further fact that the value of domestic animals sold or slaughtered, or of forest products cut, during a given year (as well as some other minor items) does not usually represent a value created wholly during that year, and that it is quite impossible to ascertain the value created during the year.

(3) The fact that the returns for some products are incomplete. The returns for all products are to a considerable extent estimates made by the farmers. Special difficulty was encountered in cases where the person in possession of the farm in April, 1910, when the census was taken, was not in possession of it during the crop year 1909. In such cases the farmer was not always able to report completely and accurately the products of the land for the preceding year. It is probable that the returns for the principal crops are in general fairly accurate, but that those for minor crops and for dairy and poultry products are frequently understated, particularly because the home consumption was disregarded or underestimated. In the belief that no accurate result could be obtained from such an inquiry, the Bureau of the Census did not even attempt to ascertain the total quantity and value of certain by-products, such as straw and cornstalks, which are of considerable importance, the schedule calling only for the value of such by-products sold.

PER CENT OF LAND AREA IN FARMS, AND AVERAGE VALUE OF FARM LAND PER ACRE, IN OHIO, BY COUNTIES: 1910.

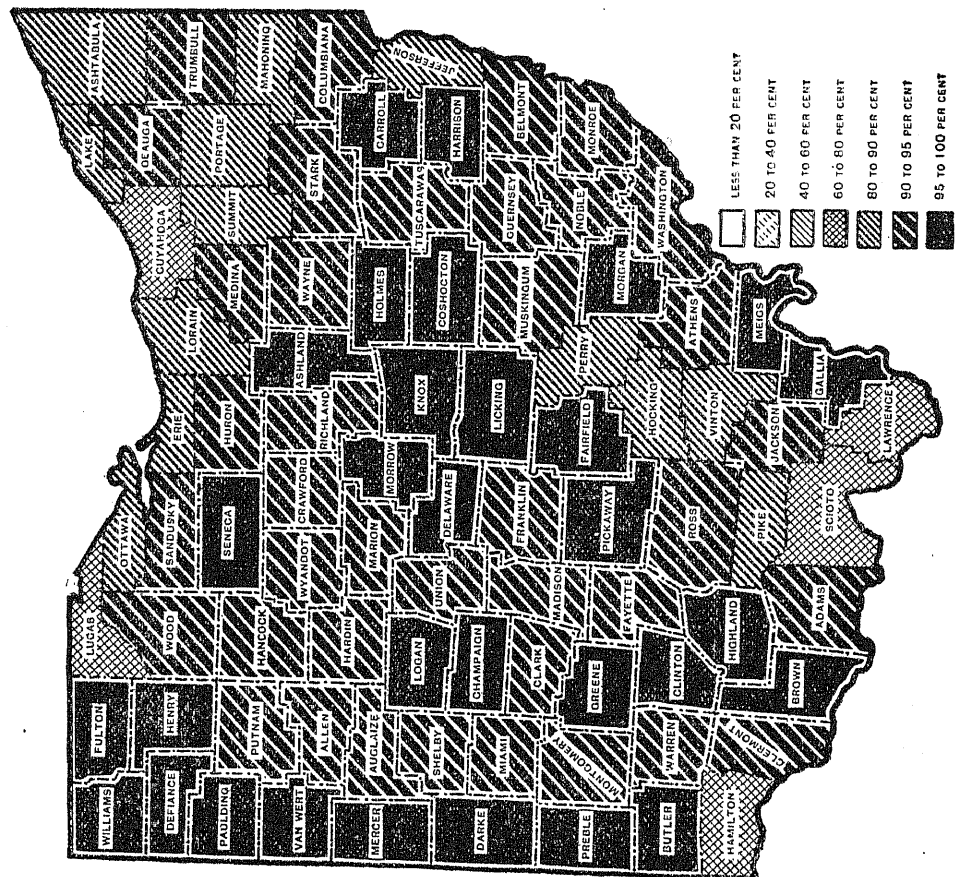
AVERAGE VALUE OF FARM LAND PER ACRE.

[Average for the state, \$53.34.]



PER CENT OF LAND AREA IN FARMS.

[Per cent for the state, 92.5.]



FARMS AND FARM PROPERTY.

Ohio ranks fourth in population and thirty-fourth in land area among the states and territories of continental United States. The state includes the extreme northeastern portion of the low plateau which constitutes the upper part of the great Mississippi Drainage Basin. Only the northern and western portions of the state are included in this division, since the remainder of the state rises into the Appalachian Plateau, which in the northeastern portion of the state has been subject to glaciation.

The state of Ohio may be divided into five main parts according to the characteristic physical features and soils which prevail. Practically all of the central and west central portions of the state consist of an elevated rolling plateau, which has been heavily glaciated, and whose surface soils are derived directly from the glacial till. The northern and northwestern portions of the state constitute an old lake plain whose soils are formed from deposits of sand, gravel, and clay washed from the glacial upland, deposited beneath the lake waters, and later exposed. In the extreme southwestern portion of Ohio a small area of the thinly glaciated upland has been covered to a limited depth by a deposit of fine silty material known as loess. The northeastern portion of the state consists of a border of the Appalachian Plateau, gently rolling to hilly and somewhat feebly glaciated. All of southeastern and east central Ohio consists of a rolling to hilly, nonglaciated plateau section whose soils are derived from the weathering of the underlying rocks.

The soils of the glaciated plateau region of central and western Ohio consist principally of yellow, brown, or gray loams, and clay loams. In this section the surface is of an undulating to rolling character. In the west central portion of the state within the glaciated plateau there are considerable tracts of black mucky soils, or of dark colored loams which are found in the depressions and upon the more level tracts within this territory. The soils of the glacial lake region in northern and northwestern Ohio possess an unusually level surface, and are prevailing dark colored, mucky loams or clay loams underlain by drab or blue clay. Bordering the glacial lake region and immediately along Lake Erie, particularly toward the eastern end of the lake, are numerous sandy and gravelly ridges which mark the ancient beaches of the glacial lakes. The soils of the southwestern counties of Ohio are derived principally from a thin covering of loess overlying both the glacial till and the consolidated rock of the region, and are brown to yellow silty loams, not remarkable for their fertility.

A small portion of the extreme northeastern area of the state consists of a glaciated area of the Appalachian Plateau where it merges with the glaciated

plateau of the upper Mississippi Basin. The soils are principally brown or gray loams or silty loams underlain by yellow or mottled silty loam or clay subsoil. Both surface soil and subsoil are frequently well filled with flat angular fragments of sandstone and shale.

The soils of the Appalachian Plateau region of the southeastern and eastern portions of the state vary considerably with the character of the underlying rocks from which they are derived. In general, silty and clay loams prevail over the limestone and shale regions, while loams and sandy loams are less extensively developed, chiefly over the regions underlain by sandstone. A considerable proportion of the area is too steep or too stony for profitable cultivation.

The two maps on the opposite page show, for the different counties, the proportion of the total land area which is in farms and the average value of farm land per acre. Of the state's entire land area more than nine-tenths is in farms. As shown by the first map, the proportion in no county is less than three-fifths, while in all but five counties, two on the northern and three on the southern border, it is four-fifths or more. Of these five counties, three contain large cities and have a considerable urban area. Slightly more than a third of the counties have 95 per cent or more of their land in farms.

The average value of farm land per acre for the whole state is \$53.34 and, as shown by the second map, in no county is the average less than \$10 per acre. In general the average values per acre in the counties in the eastern half of the state are considerably lower than those in the counties in the western half. Average values between \$10 and \$25 per acre are reported from 13 counties which form a group in the southeastern part of the state. To the west of this group are 4 counties and to the north are 22 counties, from which average values of \$25 to \$50 per acre are reported. In 29 counties lying, with but a single exception, in the western and northern parts of the state, the land values average from \$50 to \$75 per acre. Average values range from \$75 to \$100 per acre in 18 counties, which, with the exception of Lake County, lie in the western half of the state. In Lucas County, in which the city of Toledo is located, the average value of farm land is slightly over \$100 per acre, and in Cuyahoga County, in which the city of Cleveland is situated, the average value is about \$160 per acre.

Progress during the decade 1900 to 1910.—Between 1900 and 1910 there was an increase of 14.7 per cent in the population of the state, and a decrease of 1.7 per cent in the number of farms. The acreage of farm land decreased in about the same proportion as did the

number of farms, while the acreage of improved land decreased only very slightly (one-tenth of 1 per cent). The average size of the farms was about the same in both years—88.5 acres in 1900 and 88.6 in 1910.

The total value of farm property, which includes land, buildings, implements and machinery, and live stock (domestic animals, poultry, and bees), is \$1,902,695,000, an increase during the decade of \$703,771,000, or 58.7 per cent. Of this increase, \$468,731,000 was in the value of land, \$148,806,000 in that of buildings, and \$86,233,000 in that of farm equipment, including live stock and implements and

machinery. The average value of a farm with its equipment in 1900 was \$4,333, while 10 years later it was \$6,994. The average value per acre of land rose from \$33.35 in 1900 to \$53.34 in 1910.

In considering the increase of values in agriculture the general increase in the prices of all commodities in the last 10 years should be borne in mind.

The following table summarizes for the state the more significant facts relating to population and land area, the number, value, and acreage of farms, and the value of all other farm property in 1910 and 1900:

NUMBER, AREA, AND VALUE OF FARMS.	1910 (April 15)	1900 (June 1)	INCREASE. ¹	
			Amount.	Per cent.
Population.....	4,767,121	4,157,545	609,576	14.7
Number of all farms.....	272,045	276,719	-4,674	-1.7
Approximate land area of the state..... acres..	26,073,600	26,073,600		
Land in farms..... acres..	24,105,708	24,501,985	-396,277	-1.6
Improved land in farms..... acres..	19,227,969	19,244,472	-16,503	-0.1
Average acres per farm.....	88.6	88.5	0.1	0.1
Value of farm property: Total.....	\$1,902,694,589	\$1,198,923,946	\$703,770,643	58.7
Land.....	1,285,894,812	817,163,710	468,731,102	57.4
Buildings.....	368,257,594	219,451,470	148,806,124	67.8
Implements and machinery.....	51,210,071	36,354,150	14,855,921	40.9
Domestic animals, poultry, and bees....	197,332,112	125,954,616	71,377,496	56.7
Average value of all property per farm.....	\$6,994	\$4,333	\$2,661	61.4
Average value of land per acre.....	\$53.34	\$33.35	\$19.99	59.9

¹ A minus sign (—) denotes decrease.

Population, number of farms, and farm acreage: 1850 to 1910.—The table following presents, for the state as a whole for each census from 1850 to 1910, inclusive, a statement of the total population, the number of farms, and the acreage of farm land and of improved land in farms. It also gives the percentage of the land area in farms, the percentage of farm land improved, and the percentage of increase during each decade in the number of farms and in the land in farms.

CENSUS YEAR.	Population.	FARMS.		LAND IN FARMS.			Per cent of land area in farms.	Per cent of farm land improved.
		Number.	Per cent of increase. ¹	All land.		Improved land (acres).		
				Acres.	Per cent of increase. ¹			
1910....	4,767,121	272,045	-1.7	24,105,708	-1.6	19,227,969	92.5	79.8
1900....	4,157,545	276,719	10.1	24,501,985	4.9	19,244,472	94.0	78.5
1890....	3,672,329	251,430	1.7	23,352,408	-4.8	18,035,824	89.6	78.5
1880....	3,198,062	247,189	26.1	24,529,226	13.0	18,031,091	94.1	73.7
1870....	2,665,260	195,953	8.9	21,712,420	6.1	14,469,133	83.3	66.6
1860....	2,339,511	179,889	25.1	20,472,141	13.7	12,625,394	78.5	61.7
1850....	1,980,329	143,807	.....	17,997,493	.....	9,851,493	69.0	54.7

¹ A minus sign (—) denotes decrease.

In the 60 years since 1850 the population of the state has increased by 2,786,792, or 140.7 per cent, the increases being distributed by decades with remarkable uniformity. The number of farms, after having increased irregularly for half a century, decreased

slightly during the last decade. During the 50-year period between 1850 and 1900 the number of farms increased from 143,807 to 276,719, or at the rate of 2,658 per year. Between 1890 and 1900 the rate of increase was 2,529 per year. During the last decade, however, the number has decreased at the rate of 467 per year.

The land surface of Ohio is approximately 26,073,600 acres. Of this area, 24,105,708 acres, or 92.5 per cent, are included in farms. Of the farm acreage, 19,227,969 acres, or 79.8 per cent, are reported as improved land, representing 73.7 per cent of the total land area of the state.

The foregoing table shows a continuous increase from 1850 to 1880 in the total farm acreage of the state, a decrease of 1,176,818 acres between 1880 and 1890, an increase of 1,149,577 acres during the next decade, and a decrease of 396,277 acres during the last decade. The proportion of the total land area which was in farms increased from 69 per cent in 1850 to 94.1 per cent in 1880, declined to 89.6 per cent in 1890, rose to 94 per cent in 1900, and fell to 92.5 per cent in 1910. The acreage of improved land increased continuously from 1850 to 1900, but was a little less in 1910 than in 1900. The proportion of all farm land which was improved increased during each decade of the 60 years covered by the table, excepting the decade 1890-1900, during which period it remained stationary.

Value of farm property: 1850 to 1910.—The agricultural changes in Ohio since 1850, as reflected in the values of the several classes of farm property, are shown in the table which follows:

CENSUS YEAR.	FARM PROPERTY.							
	Total.		Land and buildings.		Implements and machinery.		Domestic animals, poultry, and bees.	
	Value.	Per cent of increase. ¹	Value.	Per cent of increase. ¹	Value.	Per cent of increase. ¹	Value.	Per cent of increase.
1910.....	\$1,902,694,589	58.7	\$1,654,152,406	59.6	\$51,210,071	40.9	\$197,332,112	56.7
1900.....	1,198,923,946	0.3	1,030,615,180	-1.3	36,394,150	23.3	125,954,616	8.4
1890.....	1,185,688,864	-5.2	1,050,031,828	-6.9	29,475,346	-3.4	116,181,690	12.0
1880.....	1,261,726,263	31.4	1,127,497,853	33.7	30,521,180	48.5	103,707,730	7.8
1870 ²	960,366,833	23.7	843,572,181	24.4	20,554,230	17.2	96,240,422	19.7
1860.....	776,036,642	86.7	678,132,991	89.0	17,538,832	37.6	80,384,819	82.2
1850.....	415,630,929	.....	358,758,603	.....	12,750,585	.....	44,121,741	.....

¹ A minus sign (-) denotes decrease.

² Computed gold values, being 80 per cent of the currency values reported.

In 1850 the total value of farm property (\$415,631,000) was less than one-fourth as great as in 1910. In 1880 it was more than three times as great as in 1850, reaching \$1,261,726,000, but in 1890 it had fallen off \$66,037,000. In 1900 it had regained a small part of the loss of the previous decade. The gain between 1900 and 1910 (\$703,771,000) was nearly as great as during the entire period from 1850 to 1880, and the relative increase (58.7 per cent) was larger than during any other decade since 1850-1860.

During the 30-year period 1850 to 1880 the value of land and buildings more than trebled, being in 1880 \$1,127,497,000. At each of the next two censuses it was somewhat less than that amount; but in 1910 it had grown to about \$1,654,200,000, an increase of 46.7 per cent over 1880. During every decade, except 1880-1890, the value of implements and machinery increased, the value in 1910 being about four times as great as in 1850. The value of live stock increased during every decade and in 1910 was almost four and one-half times as great as in 1850.

Average acreage and values per farm: 1850 to 1910.—The changes which have taken place during the past 60 years in the average acreage of Ohio farms and in the average values of the various classes of farm property, as well as in the average value per acre of land and buildings, are shown in the following table:

CENSUS YEAR.	Average acres per farm.	AVERAGE VALUE PER FARM. ¹				Average value of land and buildings per acre.
		All farm property.	Land and buildings.	Implements and machinery.	Domestic animals, poultry, and bees.	
1910.....	88.6	\$6,994	\$6,080	\$188	\$725	\$68.62
1900.....	88.5	4,333	3,746	132	455	42.31
1890.....	92.9	4,756	4,176	117	462	44.96
1880.....	99.2	5,104	4,561	123	420	45.97
1870 ²	110.8	4,901	4,305	105	491	38.85
1860.....	113.8	4,314	3,770	97	447	33.12
1850.....	125.0	2,890	2,495	89	307	19.93

¹ Averages are based on "all farms" in state.

² Computed gold values, being 80 per cent of the currency values reported.

The average size of the Ohio farm decreased continuously from 125 acres in 1850 to 88.5 acres in 1900,

a rate of about three-quarters of an acre per year. The average remained practically unchanged during the last decade, and is now 88.6 acres.

The average value of an Ohio farm is almost \$7,000, of which \$6,080 represents the average value of land and buildings, \$725 that of live stock, and \$188 that of implements and machinery. The average value per farm of each of these three component classes of farm property has shown a greater absolute and relative increase between 1900 and 1910 than during any other decade covered by the table, the average value of all farm property having increased by \$2,661 during that time. The average value per acre of land and buildings increased from \$42.31 in 1900 to \$68.62 in 1910.

Farm tenure: 1880 to 1910.—The following table shows the distribution of the farms of the state according to character of tenure at each census since 1880:

TENURE.	1910	1900	1890	1880
Number of all farms.....	272,045	276,719	251,430	247,189
Farms operated by owners and managers.....	194,657	200,788	193,895	199,562
Farms consisting of owned land only.....	162,982	173,631	(¹)	(¹)
Farms consisting of owned and hired land.....	29,122	23,730	(¹)	(¹)
Farms operated by managers.....	2,753	3,427	(¹)	(¹)
Farms operated by tenants.....	77,188	75,931	57,535	47,627
Share tenants.....	49,972	51,880	38,588	32,793
Share-cash tenants ²	3,462			
Cash tenants.....	21,068	24,051	18,947	14,834
Tenure not specified ³	2,686			
Per cent of farms operated by—				
Owners and managers.....	71.6	72.6	77.1	80.7
Tenants.....	28.4	27.4	22.9	19.3
Share and share-cash.....	19.6	18.7	15.3	13.3
Cash and nonspecified.....	8.7	8.7	7.5	6.0

¹ Not reported separately.

² Share-cash tenants were doubtless largely included with share tenants in 1900, 1890, and 1880.

³ Prior to 1910 nonspecified tenants were included with cash tenants.

The number of all farms, and therefore of all farm operators, is 272,045. Of the operators, 192,104 are classified as owners, 2,753 as managers, and 77,188 as tenants. Of the owners, 162,982 operate exclusively land which they own, while 29,122 operate some land which they rent in addition to that which they own. The tenants are classified according to the character of their tenancy; thus 49,972 are share tenants; 3,462, share-cash tenants; 21,068, cash tenants; and for 2,686 no report relative to character of tenure was secured.

In 1880 the number of farms operated by tenants was 47,627, or 19.3 per cent of all farms, while in 1910 the number was 77,188, or 28.4 per cent of all farms. During the decade 1900 to 1910 the number of tenants increased 1,257, or 1.7 per cent, while the number of owners and managers decreased 5,931, or 3 per cent. The number of tenants increased continuously during the 30 years, while the number of owners and managers fluctuated, first showing a marked decrease, then an increase, and for the last decade a decrease again, the number for 1910 being slightly greater than that for 1890, the lowest point reached. Relatively the number of tenants has increased, and the number of owners and managers cor-

respondingly decreased throughout the period covered by the table, the rate, however, being less rapid from 1900 to 1910 than during the earlier decades.

The number of tenant farmers who rent in whole or in part for a share of the products has increased by 1,554 during the last decade, while the number of those who rent for cash, including those for whom the form of tenure is unreported, has decreased by 297. Between 1880 and 1900 both classes of tenants continuously increased.

The following table shows the acreage, improved acreage, and value of land and buildings for farms operated by owners (including part owners), managers, and tenants, respectively:

FARMS OPERATED BY—	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1910	1900	1910	1900	1910	1900
Total.....	24,105,708	24,501,985	19,227,969	19,244,472	\$1,654,152,406	\$1,036,615,180
Owners.....	16,031,682	16,900,711	12,724,072	13,276,309	1,047,849,280	697,412,120
Managers.....	504,636	564,863	349,442	385,005	47,935,700	28,749,950
Tenants.....	7,569,390	7,036,411	6,153,855	5,583,158	558,307,426	310,453,110

The following table shows the per cent distribution by tenure groups of the items in the preceding table, and also of the number of farms:

FARMS OPERATED BY—	PER CENT OF TOTAL.							
	Number of farms.		All land in farms.		Improved land in farms.		Value of land and buildings	
	1910	1900	1910	1900	1910	1900	1910	1900
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Owners.....	70.6	71.3	66.5	69.0	66.2	69.0	63.3	67.3
Managers.....	1.0	1.2	2.1	2.3	1.8	2.0	2.9	2.8
Tenants.....	28.4	27.4	31.4	28.7	32.0	29.0	33.8	29.9

It will be seen that, in 1910, 66.5 per cent of all land in farms was in farms operated by their owners (including part owners), 2.1 per cent in farms operated by managers, and 31.4 per cent in farms operated by tenants, the percentage for owners and for managers being lower and that for tenants higher than in 1900.

As shown by the next table, the average size of farms operated by managers in 1910 (183.3 acres) was somewhat less than twice as great as that operated by tenants (98.1 acres), which was in turn somewhat larger than that of farms operated by owners (83.5 acres).

FARMS OPERATED BY—	AVERAGE ACRES PER FARM.				PER CENT OF FARM LAND IMPROVED.	AVERAGE VALUE OF LAND AND BUILDINGS.				
	All land.		Improved land.			Per farm.		Per acre.		
	1910	1900	1910	1900		1910	1900	1910	1900	
Total.....	88.6	88.5	70.7	69.5	79.8	78.5	\$8,080	\$3,746	\$68.62	\$42.31
Owners.....	83.5	85.6	66.2	67.3	79.4	78.6	5,455	3,534	65.36	41.27
Managers.....	183.3	164.8	126.9	112.3	69.2	68.2	17,412	8,389	94.99	50.90
Tenants.....	98.1	92.7	79.7	73.5	81.3	79.3	7,234	4,089	73.77	44.12

The average size of farms operated by managers and by tenants increased between 1900 and 1910, while that of farms operated by owners decreased. In 1910

the percentage of farm land improved was highest for farms operated by tenants and lowest for those operated by managers.

Farm mortgages: 1890 to 1910.—The Eleventh Census (1890) was the first to collect data relating to mortgage debt on farms. The basis of the returns was the "farm home" occupied by its owner. The same class of information was secured by the population schedules of the Twelfth Census (1900). The agricultural schedules of the Thirteenth Census (1910) secured practically the same information, except that the basis was "owned farms" instead of "owned farm homes"—a difference involving, however, no appreciable incomparability.

The following table relates to farms operated by persons owning all or part of the land, and shows for 1910 (1) the number of such farms reported as free from mortgage; (2) the number reported as mortgaged; and (3) the number for which no mortgage reports were secured. Comparable items are included for 1900 and 1890.

CLASS.	OWNED FARMS. ¹		OWNED FARM HOMES.		OWNED FARM HOMES. ²	
	1910		1900		1890	
	Number.	Per cent. ³	Number.	Per cent. ³	Number.	Per cent.
Total.....	192,104	.....	201,941	.....	186,423	.....
Free from mortgage.....	135,616	71.1	138,445	70.2	132,540	71.1
Mortgaged.....	54,997	28.9	53,632	29.8	53,883	29.9
Unknown.....	1,491	.....	4,864	.....	.....	.....

¹ Includes all farms owned in whole or in part by the operator.

² The 2,433 "owned farm homes" for which no reports were secured were distributed between "free from mortgage" and "mortgaged" in 1890.

³ Per cent of combined total of "free from mortgage" and "mortgaged."

In 1910 the total number of farms owned in whole or in part by the operators was 192,104. Of this number, 135,616 were reported as free from mortgage; 54,997 were reported as mortgaged; and for 1,491 no report relative to mortgage indebtedness was obtained. The number of mortgaged farms constituted 28.9 per cent of the total number of owned farms, exclusive of those for which no mortgage report was obtained. The percentage is exactly the same as it was in 1890, and only slightly smaller than in 1900. It may be noted that the percentages given for the three censuses are comparable, but that the number of mortgaged and unmortgaged farms reported in 1890 is not entirely comparable with the numbers reported at the later censuses because at the census of 1890 the farms for which no reports were secured were distributed between the two classes of mortgaged and unmortgaged farms. It may be seen, however, that both the number mortgaged and the number free of mortgage increased between 1890 and 1900, but decreased between 1900 and 1910.

The statement of mortgage debt and of the value of mortgaged farm property is restricted to the farms of those farmers who own all of their land and report the amount as well as the fact of indebtedness. Of the 54,997 farms reported as mortgaged, 44,780 are

wholly owned by the farmers, and for 42,785 of these the amount of mortgage debt is reported. Only these last-mentioned farms are included for 1910 in the next table, which presents data relating to mortgaged farms for 1910 and 1890. In this connection it should be noted that in 1890 the amount of mortgage debt of farms with incomplete reports was estimated according to the percentages and averages obtained from farms with full reports, but that no such estimate is here made for 1910. The table gives a comparative statement of the value of mortgaged farms owned entirely by their operators and the amount of indebtedness, together with the average value of such farms, the average debt per farm, and the average equity per farm for 1910 and 1890. Data regarding the amount of mortgage debt were not obtained in 1900.

	OWNED FARMS OR FARM HOMES MORTGAGED.		INCREASE.	
	1910 ¹	1890 ²	Amount.	Per cent.
Number.....	42,785	53,883	.....	.....
Value—Land and buildings.....	\$220,749,834	\$206,318,867	.....	.....
Amount of mortgage debt.....	\$63,788,397	\$70,744,771	.....	.....
Per cent of debt to value.....	28.9	34.3	.....	.....
Average value per farm.....	\$5,160	\$3,829	\$1,331	34.8
Average debt per farm.....	\$1,491	\$1,313	\$178	13.6
Average equity per farm.....	\$3,669	\$2,516	\$1,153	45.8

¹ Includes only farms consisting wholly of owned land and reporting value of farm and amount of debt.

² Includes all owned farm homes, estimates being made of value of farms and amount of debt for all defective reports.

The average debt of mortgaged farms increased in the 20 years from \$1,313 to \$1,491, or 13.6 per cent, while the average value of such farms increased from \$3,829 to \$5,160, or 34.3 per cent. Thus the owner's equity increased from \$2,516 to \$3,669, or 45.8 per cent. As a result of the greater relative increase in farm values than in farm debt, the mortgage indebtedness, which in 1890 was 34.3 per cent of the value of the mortgaged farms, was 28.9 per cent of this value in 1910.

Farms by size groups: 1910 and 1900.—The following table shows the distribution of farms by size groups at the censuses of 1910 and 1900:

SIZE GROUP.	NUMBER OF FARMS.		INCREASE, ¹		PER CENT OF TOTAL.	
	1910	1900	Number.	Per cent.	1910	1900
Total.....	272,045	276,719	-4,674	-1.7	100.0	100.0
Under 3 acres.....	749	2,531	-1,782	-70.4	0.3	0.9
3 to 9 acres.....	19,448	14,816	4,632	31.3	7.1	5.4
10 to 19 acres.....	18,716	18,115	601	3.3	6.9	6.6
20 to 49 acres.....	50,331	57,566	-7,235	-12.6	18.5	20.8
50 to 99 acres.....	88,047	89,774	-1,727	-1.9	32.4	32.4
100 to 174 acres.....	68,746	67,258	1,488	2.2	25.3	24.3
175 to 259 acres.....	18,211	18,361	-150	-0.8	6.7	6.6
260 to 499 acres.....	6,902	7,218	-316	-4.4	2.5	2.6
500 to 999 acres.....	783	916	-133	-14.5	0.3	0.3
1,000 acres and over....	112	164	-52	-31.7	(²)	0.1

¹ A minus sign (-) denotes decrease.

² Less than one-tenth of 1 per cent.

Nearly one-third (32.4 per cent) of the farms in Ohio contain from 50 to 99 acres, approximately one-fourth (25.3 per cent) contain from 100 to 174 acres, and about one-fifth (18.5 per cent) contain from 20 to 49

acres. The three groups embracing the farms of from 20 to 174 acres, therefore, comprise more than three-fourths of all the farms in the state. Slightly more than one-seventh of all farms are under 20 acres in size, while farms of 175 acres or over constitute less than one-tenth of the total. Only farms from 100 to 174 acres in size and farms from 3 to 9 and from 10 to 19 acres in size have increased in number during the decade. The greatest absolute decrease in number occurred in the "20 to 49 acres" group. The greatest relative decrease occurred in the number of places "under 3 acres" in size, reported as farms, such farms being less than one-third as numerous as 10 years ago. This decrease may be due to a different interpretation by the enumerators as to what constitutes a small farm, or may represent an actual decrease in that type of farm.

The following table shows the total and improved acreage and the value of land and buildings for farms of various size groups, consolidating into one group the farms of less than 20 acres (numbering in all 38,913), and also the farms of between 175 and 499 acres (numbering 25,113):

SIZE GROUP (ACRES).	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1910	1900	1910	1900	1910	1900
Total.....	24,105,708	24,501,955	19,227,969	19,244,472	\$1,654,152,406	\$1,036,615,180
Under 20 acres.....	363,977	340,431	327,189	305,654	81,009,747	43,412,350
20 to 49.....	1,719,606	1,972,566	1,441,294	1,640,690	149,415,179	102,975,272
50 to 99.....	6,444,930	6,636,508	5,288,437	5,272,457	454,592,415	282,458,260
100 to 174.....	8,850,408	8,663,663	7,053,181	6,810,518	569,462,824	348,045,570
175 to 499.....	6,020,366	6,050,168	4,641,288	4,665,172	360,285,828	232,793,940
500 to 999.....	488,963	574,368	355,502	407,128	29,425,733	20,253,820
1,000 and over.....	217,458	264,281	121,078	142,853	9,960,680	6,675,970

The following table shows the per cent distribution, by size groups, of the items presented in the preceding table, and also of the number of farms:

SIZE GROUP.	PER CENT OF TOTAL.							
	Number of farms.		All land in farms.		Improved land in farms.		Value of land and buildings.	
	1910	1900	1910	1900	1910	1900	1910	1900
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 20 acres.....	14.3	12.8	1.5	1.4	1.7	1.6	4.9	4.2
20 to 49 acres.....	18.5	20.8	7.1	8.1	7.5	8.5	9.0	9.9
50 to 99 acres.....	32.4	32.4	20.7	27.1	27.5	27.4	27.5	27.2
100 to 174 acres.....	25.3	24.3	30.7	35.4	39.7	35.4	34.4	33.6
175 to 499 acres.....	9.2	9.2	25.0	24.7	24.1	24.2	21.8	22.5
500 to 999 acres.....	0.3	0.3	2.0	2.3	1.8	2.1	1.8	2.0
1,000 acres and over.....	(¹)	0.1	0.9	1.1	0.6	0.7	0.6	0.6

¹ Less than one-tenth of 1 per cent.

Of the total farm acreage of the state in 1910, 36.7 per cent was in farms of 100 to 174 acres, 26.7 per cent in farms of 50 to 99 acres, and 25 per cent in farms of 175 to 499 acres, these three being from the standpoint of aggregate acreage the most important size groups. Between 1900 and 1910 the proportion of the total acreage in farms of each size group less than 100 acres (except those under 20 acres) and over 500 acres decreased, while that in farms under 20 acres and of from 100 to 499 acres increased.

As shown by the next table, the percentage of farm land improved diminishes as the average size of the farms increases. For this reason and also because buildings have normally a higher value in proportion to farm acreage on small than on large farms, the average value of land and buildings per acre of land also generally diminishes with the increase in the size of the farms; it is very much higher for the farms under 20 acres in size than for those of any other group.

SIZE GROUP.	PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
	1910	1900	Per farm.		Per acre.	
			1910	1900	1910	1900
Total.....	79.8	78.5	\$6,080	\$3,746	\$68.62	\$42.31
Under 20 acres.....	89.9	89.8	2,082	1,224	222.57	127.52
20 to 49 acres.....	83.8	83.2	2,969	1,789	86.89	52.20
50 to 99 acres.....	82.1	79.4	5,163	3,146	70.53	42.56
100 to 174 acres.....	79.7	78.6	8,284	5,175	64.34	40.17
175 to 499 acres.....	77.1	77.1	14,347	9,101	59.84	38.48
500 to 999 acres.....	72.7	70.9	37,581	22,111	60.18	35.26
1,000 acres and over.....	55.7	54.1	88,935	40,707	45.81	25.26

Color and nativity of farmers: 1910.—Prior to the Thirteenth Census no attempt was made to secure information on the farm schedules concerning the nativity of farmers. The next table shows the color and nativity of farm operators by character of tenure for 1910.

COLOR AND NATIVITY.	FARM OPERATORS.							
	Total.		Owners.	Tenants.	Managers.	Per cent of total.		
	Number.	Per cent distribution.				Own-ers.	Ten-ants.	Man-agers.
Total.....	272,045	100.0	192,104	77,188	2,753	70.6	28.4	1.0
Native white.....	252,645	92.9	176,502	73,598	2,545	69.9	29.1	1.0
Foreign-born white.	17,450	6.4	14,289	2,981	180	81.9	17.1	1.0
Negro and other nonwhite.....	1,950	0.7	1,313	609	28	67.3	31.2	1.4

More than nine-tenths of the Ohio farmers were native whites, while 6.4 per cent were foreign-born whites. Only 1,950, or seven-tenths of 1 per cent of all farmers, were nonwhite; and these were negroes, except 1 Indian and 1 Japanese. Among the native white farmers, 29.1 per cent were tenants, as compared with 17.1 per cent among the foreign-born white and 31.2 per cent among the nonwhite farmers.

Of the 17,450 foreign-born white farmers in Ohio in 1910, 9,872 were born in Germany; 1,869 in England; 1,256 in Switzerland; 1,019 in Ireland; 686 in Austria; 431 in Canada; 397 in Wales; 340 in France; 327 in Hungary; 297 in Scotland; 199 in Sweden; and 163 in Russia. Other European countries were represented by a total of 564 farmers, and non-European countries, other than Canada, by 30.

DOMESTIC ANIMALS, POULTRY, AND BEES.

Domestic animals on farms: 1910.—The census of 1910 was taken as of April 15, and that of 1900 as of June 1. Since a great many domestic animals are born during the six weeks between April 15 and June 1, and on the other hand a considerable number of older animals are slaughtered or die during the same period, the numbers of the different classes of animals for the two censuses are not closely comparable, and the same is true in somewhat less degree of the values. For this reason the figures for 1900 are not presented in this chapter, but in the general reports of the census the figures for the several states will be presented and the extent to which their comparability is affected by the change in the date of enumeration will be discussed.

The total value of live stock on farms, including domestic animals, poultry, and bees, in 1910 was \$197,332,000, of which domestic animals contributed \$187,523,000. The value of cattle represented 26 per cent of the total value of live stock; that of horses and mules, 51.5 per cent; that of swine, 9.8 per cent; that of sheep and lambs, 7.6 per cent; and that of poultry, 4.8 per cent, the other classes being insignificant.

The next table summarizes the statistics of domestic animals on farms for the state, recorded as of April 15, 1910. Cattle and sheep are divided into age and sex

groups, while horses, mules, and swine are presented by age groups only.

Of the total number of farms enumerated, 260,265, or 95.7 per cent, report domestic animals of some kind, the number without any domestic animals being only 11,780.

Cattle are reported from 89.8 per cent of all farms, "dairy cows" from 88.9 per cent, and "other cows" from only 20.6 per cent. The average number of "dairy cows" per farm reporting is nearly 4. The total number of cattle decreased 215,706 during the decade. This decrease is confined to the classes of steers and bulls and calves, there being an increase of 159,928 in the number of cows and heifers. Calves decreased 238,902 in number and \$2,266,861 in value, owing largely to the change in the date of enumeration. In 1900 the census was taken as of June 1, after all the spring calves were born, while that of 1910 was taken as of April 15, before the close of the calving season and when the calves on hand were on the average younger than at the enumeration of 1900.

Horses are reported by 89.4 per cent of all the farms in the state. It may be noted that while 20 per cent report yearlings, only 7 per cent report spring colts. The latter percentage would doubtless have been much higher if the enumeration had been made later in the spring. The average value of

mature horses is almost double that reported in 1900. About one farm in every twenty-five reports mules. Their average values are slightly higher than those of horses of the corresponding age groups.

Sheep and lambs are reported from 71,556 farms, or 26.3 per cent of the total number. Of the 71,556 farms, 73.8 per cent report spring lambs. The number of spring lambs is 46.6 per cent of the number of ewes, the comparatively small proportion being doubtless due to the early date of enumeration. The average flock in the state, including all classes, numbers 55; the average number of ewes is 31 per farm reporting that class.

Of all farms, 70.2 per cent report swine, the average number being over 16 per farm reporting. About two-fifths of all farms report spring pigs. The average value of the swine reported under the head of "hogs and pigs born before January 1, 1910," is \$10.28.

AGE AND SEX GROUP.	FARMS REPORTING.		ANIMALS.		
	Number.	Per cent of all farms.	Number.	Value.	Average value.
Total.....	260,265	95.7		\$187,523,324	
Cattle	244,224	89.8	1,837,607	51,403,341	\$27.97
Dairy cows (cows and heifers kept for milk, born before Jan. 1, 1909).....	241,736	88.9	905,125	33,963,472	37.52
Other cows (cows and heifers not kept for milk, born before Jan. 1, 1909).....	56,168	20.6	142,261	3,671,000	25.80
Heifers born in 1909.....	114,739	42.2	235,392	3,784,857	16.08
Calves born after Jan. 1, 1910.....	120,909	44.4	255,682	1,919,714	7.51
Steers and bulls born in 1909.....	61,579	22.6	142,089	2,546,468	17.92
Steers and bulls born before Jan. 1, 1909.....	37,589	13.8	157,058	5,517,830	35.13
Horses	243,301	89.4	910,224	98,910,638	108.67
Mares, stallions, and geldings born before Jan. 1, 1909.....	242,525	89.1	814,507	93,373,221	114.64
Colts born in 1909.....	54,283	20.0	73,520	4,787,578	65.12
Colts born after Jan. 1, 1910.....	18,937	7.0	22,197	749,839	33.78
Mules	10,628	3.9	22,850	2,775,831	121.48
Mules born before Jan. 1, 1909.....	9,675	3.6	20,904	2,656,354	127.07
Mule colts born in 1909.....	1,119	0.4	1,601	107,501	67.15
Mule colts born after Jan. 1, 1910.....	313	0.1	345	11,976	34.71
Asses and burros	259	0.1	488	61,560	126.15
Swine	190,850	70.2	3,105,627	19,412,730	6.25
Hogs and pigs born before Jan. 1, 1910.....	180,885	66.5	1,574,009	16,180,493	10.28
Pigs born after Jan. 1, 1910.....	110,839	40.7	1,531,618	3,232,237	2.11
Sheep	71,556	26.3	3,909,162	14,941,381	3.82
Ewes born before Jan. 1, 1910.....	69,583	25.6	2,188,951	10,341,577	4.72
Rams and wethers born before Jan. 1, 1910.....	38,013	14.0	701,212	3,074,571	4.38
Lambs born after Jan. 1, 1910.....	52,792	19.4	1,018,999	1,525,233	1.50
Goats	918	0.3	5,379	17,843	3.32

Poultry on farms: 1910 and 1900.—The next table gives the numbers of the various kinds of poultry

reported in 1910 and 1900, together with their value and the number of farms reporting each kind in 1910.

The number of fowls on Ohio farms increased 15.5 per cent during the last decade, while the relative increase in value (87.4 per cent) was nearly six times as great. The increase in the number of fowls is chiefly due to the increase in the number of chickens, which more than offsets the decreases in the number of turkeys, ducks, and geese.

KIND.	1910 (April 15)				1900 (June 1)
	Farms reporting.		Number of fowls.	Value.	Number of fowls.
	Number.	Per cent of all farms.			
Total	253,685	93.3	17,342,289	\$9,532,672	15,018,352
Chickens.....	253,608	93.2	16,850,099	9,010,277	14,269,525
Turkeys.....	43,019	15.8	162,664	310,660	362,924
Ducks.....	21,288	7.8	106,958	63,227	206,238
Geese.....	24,121	8.9	112,706	116,617	179,665
Guinea fowls.....	10,917	4.0	53,953	18,905	(¹)
Pigeons.....	3,134	1.2	55,678	11,848	(²)
Peafowls.....	27	(³)	117	271	(²)
Pheasants.....	6	(³)	114	867	(²)

¹ Included with chickens. ² Not reported. ³ Less than one-tenth of 1 per cent.

Out of every 100 farms, 93 report poultry of some kind, and only 77 of the farms reporting poultry fail to report chickens. The value of chickens represents 94.5 per cent of the value of all fowls. The value of poultry and the number of farms reporting were obtained in 1900 for the total of all fowls only, and not for each kind as in 1910.

Bees on farms: 1910 and 1900.—The number of farms reporting bees has decreased from 34,458 in 1900 to 23,203 in 1910, or 32.7 per cent. The number of colonies of bees decreased from 151,391 to 98,242, or 35.1 per cent, and their value decreased from \$402,561 to \$275,726, or 31.5 per cent. The average value of bees per farm reporting was \$11.68 in 1900 and \$11.88 in 1910. About nine farms in every hundred report bees.

Domestic animals not on farms: 1910.—Most of the domestic animals not on farms are found in cities, towns, and villages. Statistics for such animals are shown below. No provision was made by law to secure data pertaining to poultry and bees not on farms. In the next table age groups are omitted for the sake of brevity.

KIND.	Number of inclosures reporting.	ANIMALS.		
		Number.	Value.	Average value.
Total	120,440		\$25,221,650	
All cattle.....	38,036	62,388	2,240,857	\$35.92
Dairy cows.....	37,008	47,054	1,946,970	41.38
Horses.....	98,144	188,041	21,669,209	115.24
Mules.....	2,049	6,840	843,687	123.34
Asses and burros.....	93	139	14,294	102.83
Swine.....	12,810	47,125	408,266	8.66
Sheep.....	408	8,868	38,508	4.34
Goats.....	793	1,134	6,852	6.04

As would be expected, horses are by far the most important class of domestic animals not on farms, both in number and in value; cattle, about three-fourths of which are dairy cows, rank next in importance.

Domestic animals on farms and not on farms: 1910.—The table in the next column gives the total number and value of domestic animals, distinguishing those on farms from those not on farms.

The total value of all domestic animals in the state in 1910 was \$212,745,000, of which the value of animals not on farms represented 11.9 per cent.

KIND.	DOMESTIC ANIMALS.					
	Total.		On farms.		Not on farms.	
	Number.	Value.	Number.	Value.	Number.	Value.
Total.....		\$212,744,974		\$187,523,324		\$25,221,650
All cattle.....	1,899,995	53,644,198	1,837,607	51,403,341	62,388	2,240,857
Dairy cows.....	952,179	35,910,442	905,125	33,963,472	47,054	1,946,970
Horses.....	1,098,265	120,579,847	910,224	98,910,638	188,041	21,669,209
Mules.....	29,690	3,619,498	22,850	2,775,831	6,840	843,667
Asses and burros.....	627	75,854	488	61,560	139	14,294
Swine.....	3,152,752	19,820,996	3,105,627	19,412,730	47,125	408,266
Sheep.....	3,918,030	14,979,886	3,909,162	14,941,381	8,868	38,505
Goats.....	6,513	24,695	5,370	17,843	1,134	6,852

LIVE STOCK PRODUCTS.

The returns for live stock products obtained at the census of 1910, like those for crops, relate to the activities of the calendar year 1909. It is impossible to give a total representing the annual production of live stock products for the reason that, as shown elsewhere, the total value of products from the business of raising domestic animals for use, sale, or slaughter can not be calculated from the census returns. Even if this value could be ascertained and were added to the value of the crops the sum would not correctly represent the total value of farm products, because, as already more fully explained, duplication would result from the fact that part of the crops are fed to the live stock.

Dairy products: 1909 and 1899.—The following table shows the principal statistics relative to dairy products in 1909, with certain comparative statistics for 1899:

	FARMS REPORTING.		Number or quantity.	Unit.	VALUE.	
	Number.	Per cent of all farms.			Total.	Average per unit.
Dairy cows on farms April 15, 1910.....	241,736	38.9	905,125	Head	.....	.....
On farms reporting dairy products in 1909.....	221,442	31.4	854,463	Head	.....	.....
On farms reporting milk produced in 1909.....	201,526	74.1	769,907	Head	.....	.....
Specified dairy products, 1909:						
Milk reported.....			307,590,755	Gals	.....	.....
Butter made.....	188,481	69.3	63,569,132	Lbs	\$14,305,607	\$0.23
Cheese made.....	729	0.3	613,233	Lbs	57,132	0.09
Milk sold.....	32,017	11.8	99,430,948	Gals	13,025,828	0.13
Cream sold.....	8,101	3.0	2,191,997	Gals	1,498,138	0.68
Butter fat sold.....	12,703	4.7	7,563,527	Lbs	1,982,653	0.26
Butter sold.....	146,086	53.7	39,252,326	Lbs	9,021,150	0.23
Cheese sold.....	454	0.2	513,650	Lbs	46,866	0.09
Total receipts from sales, 1909.....					25,574,635	.....
Total value of milk, cream, and butter fat sold and butter and cheese made, 1909.....					30,869,408	.....
Specified dairy products, 1899:						
Butter made.....	220,238	79.6	79,551,299	Lbs	.....	.....
Cheese made.....	1,016	0.4	1,167,001	Lbs	.....	.....
Butter sold.....			47,118,140	Lbs	6,896,334	0.15
Cheese sold.....			1,047,202	Lbs	71,173	0.07

The number of farms reporting dairy cows on April 15, 1910, was 241,736, but only 221,442 reported dairy

products in 1909. That there should be this difference is not surprising. Doubtless some farmers who had dairy cows in 1910 had none in 1909, while other farmers neglected to give information for the preceding year, or were unable to do so, perhaps because the farm was then in other hands. Dairy products in general are somewhat less accurately reported than the principal crops. This is particularly the case as regards the quantity of milk produced. The number of farms which made any report of milk produced during 1909 was 201,526 (considerably less than the total number reporting dairy products), and the number of dairy cows on such farms on April 15, 1910, was 770,000. The amount of milk reported was 307,591,000 gallons; assuming that there were the same number of cows in 1909 as in 1910, this would represent an average of 400 gallons per cow. In considering this average, however, it should be borne in mind that the quantity of milk reported is probably deficient, and that the distinction between dairy and other cows is not always strictly observed in the census returns.

By reason of the incompleteness of the returns for milk produced, the Census Bureau has made no attempt to determine the total value of dairy products for 1909. For convenience a partial total has been presented comprising the reported value of milk, cream, and butter fat sold and the reported value of butter and cheese made, whether for home consumption or for sale. The total thus obtained for 1909 is \$30,869,000, which may be defined as the total value of dairy products exclusive of milk and cream used on the farm producing.

Less than one-third of the milk produced in Ohio in 1909 was sold as such. A comparatively large quantity of milk and cream was sold on the butter fat basis. The butter made on farms in 1909 was valued at \$14,306,000.

Comparisons are made between 1909 and 1899 for but few of the census items relating to dairy products, for the reason that in 1899 estimates were made for farms with incomplete reports, which was not done at the census of 1910. The figures for milk produced and milk sold are particularly affected, but those for butter and cheese are approximately comparable.

The table shows a material decrease between 1899 and 1909 in the amount of butter made, and a still greater relative decrease in the production of cheese.

Wool: 1909 and 1899.—The next table gives statistics as to the production of wool on farms, the figures being partly based on estimates.¹

The total number of sheep of shearing age in Ohio on April 15, 1910, was 2,890,000, representing an increase of 9.1 per cent as compared with the number on June 1, 1900 (2,648,000). The approximate production of wool during 1909 was 3,073,000 fleeces, weighing 21,685,000 pounds, and valued at \$6,749,000. Of these totals about one-twelfth represents estimates. The number of fleeces produced in 1909 was 6.1 per cent greater than in 1899. The average weight per fleece in 1909 was 7.1 pounds, as compared with 7 pounds in 1899, and the average value per pound was 31 cents, as compared with 21 cents in 1899.

	Number of farms reporting.	Sheep of shearing age.	WOOL PRODUCED.		
			Fleeces (number).	Weight (pounds).	Value.
Sheep of shearing age on farms April 15, 1910.....	70,458	2,890,163	.....	.....	.....
Wool produced, as reported, 1909.....	58,580	.....	2,804,655	19,778,508	\$6,147,806
On farms reporting sheep April 15, 1910.....	55,123	2,516,514	2,676,105	18,881,722	5,876,473
On other farms.....	3,457	.....	128,550	886,786	271,333
Total production of wool (partly estimated):					
1909.....			3,073,450	21,685,258	6,749,005
1899.....			2,897,604	20,350,721	4,299,025
Increase, 1899 to 1909.....			175,846	1,334,537	2,449,980
Per cent of increase.....			6.1	6.6	57.0

Goat hair and mohair: 1909.—Although 918 farmers reported 5,379 goats and kids on their farms April 15, 1910, only 133 reported the production of goat hair or mohair during 1909. These farmers reported 1,624 fleeces, weighing 5,840 pounds and valued at \$1,684.

Poultry products: 1909 and 1899.—The next table gives data relative to the production and sale of eggs and poultry.

The total number of fowls on Ohio farms on April 15, 1910, was 17,342,000. Of the 253,685 farms

reporting fowls, 18,343 did not report any eggs produced in 1909, and 23,549 did not report any poultry raised in 1909. The production of eggs actually reported for the year 1909 was 96,259,000 dozens, valued at \$18,842,000. According to the Twelfth Census reports, the production of eggs in 1899 was 91,767,000 dozens, the value being \$10,281,000. The latter figures, however, are somewhat in excess of the actual returns at that census, because they include estimates made to cover those cases where the schedules reported fowls on hand without reporting the production of eggs. In order to make the returns for 1909 comparable with those published for 1899 similar estimates have been made, the method of estimate and the justification therefor being substantially the same as in the case of wool. The total production of eggs in 1909, including these estimates, was 100,890,000 dozens, valued at \$19,749,000. The total production of poultry in 1909, including estimates made on the same basis as for eggs, was 23,433,000 fowls, valued at \$10,998,000.

	Number of farms reporting.	Number of fowls on hand.	PRODUCT.	
			Quantity.	Value.
Fowls on farms April 15, 1910.....	253,685	17,342,289	.....	.....
On farms reporting eggs produced in 1909.....	235,342	16,568,904	.....	.....
On other farms.....	18,343	773,385	.....	.....
Eggs produced, as reported, 1909.....	237,004	.....	.....	.....
Total production of eggs (partly estimated):			.....	.....
1909.....			96,259,005	\$18,842,241
1899.....			100,889,599	19,748,658
Increase, 1899 to 1909.....			91,766,630	10,280,769
Per cent of increase.....			9,122,969	9,407,889
Eggs sold, as reported, 1909.....	218,807	.....	.....	.....
Fowls on farms April 15, 1910:				
On farms reporting poultry raised in 1909.....	230,136	16,364,832	.....	.....
On other farms.....	23,549	977,457	.....	.....
Poultry raised, as reported, 1909.....	232,248	.....	.....	.....
Total poultry raised (partly estimated):			.....	.....
1909.....			23,433,005	10,997,633
1899.....			22,112,259	8,847,039
Increase, 1899 to 1909.....			.....	2,150,624
Per cent of increase.....			.....	24.3
Fowls sold, as reported, 1909.....	177,703	.....	9,123,564	4,754,091

Honey and wax: 1909.—Although, as noted elsewhere, 23,203 farms reported 98,242 colonies of bees on hand April 15, 1910, 13,087 of these farms, with 41,343 colonies on hand April 15, 1910, made no report of honey or wax produced in 1909. The actual returns show the production of 1,001,179 pounds of honey, valued at \$131,710, and 7,454 pounds of wax, valued at \$2,181; the true totals are doubtless somewhat above these figures.

Sale or slaughter of domestic animals on farms: 1909 and 1899.—The next statement presents statistics relating to the sale or slaughter of domestic animals by Ohio farmers during the year 1909, with certain items for 1899.

The total value of domestic animals sold during 1909 was \$74,633,000, and that of animals slaughtered on

¹ Farmers should be able in general to report the production of wool more accurately than that of dairy products. There were, however, 15,335 farmers who reported the possession of 373,649 sheep of shearing age on April 15, 1910, without reporting any wool produced in 1909. Probably in a large proportion of cases this failure was due to the fact that they did not have these sheep, or did not occupy the same farm, during the preceding year. The returns of farms reporting wool in 1909 but no sheep of shearing age on April 15, 1910, would partially make up this deficiency, but it is believed that in many cases enumerators, having found that a farm had no sheep in 1910, omitted the inquiry as to wool produced in 1909 and thus missed more or less wool actually produced. It is a fairly safe assumption that the entire production of wool in 1909 bore the same relation to the entire number of sheep of shearing age on April 15, 1910, as the production of wool on those farms reporting both production and sheep bore to the number of sheep reported on such farms. Statistics for this group of farms are given in the table, and the total wool product, estimated on the basis of the above assumption, is also given.

farms \$14,964,000, making an aggregate of \$89,597,000. This total, however, involves considerable duplication, resulting from the resale or slaughter of animals which had been purchased by the farmers during the same year.

The value of the swine sold during 1909 represented considerably more than one-third of the total value of animals sold, and the value of the cattle (including calves) sold represented about one-third of the total.

The census of 1900 called for the receipts from the sale of all domestic animals raised on the farms reporting and the total value of those slaughtered during 1899, which amounted, respectively, to \$40,874,000 and \$10,277,000. The item of sales is not closely comparable with that for 1909, when the inquiry covered all sales whether of animals raised on the farms reporting or elsewhere. It is believed, however, that in many cases the returns for 1899 also included receipts from sales of animals not actually raised on the farms reporting.

	FARMS REPORTING.		Number of animals.	VALUE.	
	Number.	Per cent of all farms.		Total.	Average.
1909 —All domestic animals:					
Sold.....				\$74,632,856	
Slaughtered.....				14,964,130	
Calves:					
Sold.....	100,676	37.0	362,046	3,011,734	\$8.32
Slaughtered.....	7,791	2.9	31,180	282,746	9.07
Other cattle:					
Sold.....	104,220	38.3	558,420	21,627,887	38.73
Slaughtered.....	30,912	11.4	54,040	1,511,776	27.98
Horses: Sold.....	49,142	18.1	104,500	14,940,458	142.97
Mules: Sold.....	1,742	0.6	3,864	524,146	135.65
Asses and burros: Sold.....	75	(¹)	320	16,257	50.89
Swine:					
Sold.....	122,902	45.2	2,317,507	28,695,826	12.38
Slaughtered.....	182,236	67.0	768,195	13,084,370	17.03
Sheep:					
Sold.....	35,781	13.2	1,287,373	5,708,954	4.50
Slaughtered.....	2,459	0.9	16,754	84,937	5.07
Goats:					
Sold.....	262	0.1	3,838	17,594	4.58
Slaughtered.....	39	(¹)	89	301	3.38
1899 —All domestic animals:					
Sold ²				40,873,674	
Slaughtered.....				10,276,931	

¹ Less than one-tenth of 1 per cent.
² Schedules called for receipts from sales of animals raised on the farms reporting.

CROPS.

Summary: 1909 and 1899.—The following table summarizes the census data relative to all of the farm crops of 1909 and 1899. It includes not only general farm crops but also flowers and plants, nursery products, and forest products of farms. In comparing one year with the other it should be borne in mind that acreage is on the whole a better index of the

general changes or tendencies of agriculture than either the quantity or the value of the crops, since variations in quantity may be due largely to temporarily favorable or unfavorable climatic conditions, and variations in the value of the crops are largely affected by changes in prices. (See also discussion of "Total value of farm products.")

	ACRES.				PER CENT OF IMPROVED LAND OCCUPIED.		VALUE OF PRODUCTS.						
	1909	1899	Increase. ¹		1909	1899	1909	1899	Increase. ¹		Per cent of total.		
			Amount.	Per cent.					Amount.	Per cent.	1909	1899	
All crops.....								\$230,337,981	\$156,852,358	\$73,485,623	46.9	100.0	100.0
Crops with acreage reports	11,431,610	11,614,165	-182,555	-1.6	59.5	60.4	215,250,975	141,943,986	73,306,989	51.6	93.5	90.5	
Cereals.....	7,649,873	8,214,960	-565,087	-6.9	39.8	42.7	137,907,934	91,748,320	46,159,614	50.3	59.9	58.5	
Other grains and seeds.....	2,072	5,427	-3,355	-61.8	(²)	(²)	42,797	69,372	-26,575	-38.6	(³)	(³)	
Hay and forage.....	3,306,461	3,015,261	291,200	9.7	17.2	15.7	42,357,364	29,047,532	13,309,832	45.8	18.4	18.5	
Tobacco.....	106,477	71,422	35,055	49.1	0.6	0.4	8,998,884	4,864,191	4,134,696	85.0	3.9	3.1	
Sugar crops.....	11,745	5,037	6,708	133.2	0.1	(²)	500,210	129,781	373,429	294.5	0.2	0.1	
Sundry minor crops.....	191	821	-630	-76.7	(²)	(²)	26,332	27,757	-1,425	-5.1	(³)	(³)	
Potatoes and sweet potatoes and yams.....	213,951	171,386	42,565	24.8	1.1	0.9	9,482,136	5,908,171	3,573,965	60.5	4.1	3.8	
Other vegetables.....	123,461	103,346	20,115	19.5	0.6	0.5	11,393,791	6,446,236	4,947,555	76.8	4.9	4.1	
Flowers and plants and nursery products.....	5,788	5,384	404	7.5	(²)	(²)	3,245,181	1,937,969	1,307,212	67.5	1.4	1.2	
Small fruits.....	11,591	21,121	-9,530	-45.1	0.1	0.1	1,296,343	1,767,357	-471,014	-26.7	0.6	1.1	
Crops with no acreage reports							15,087,006	14,908,372	178,634	1.2	6.5	9.5	
Seeds.....							1,419,439	1,452,678	-33,239	-2.3	0.6	0.9	
Fruits and nuts.....							6,561,861	7,138,734	-576,873	-8.1	2.8	4.6	
Maple sugar and sirup.....							1,099,248	665,226	434,022	65.2	0.5	0.4	
Forest products of farms.....							5,761,941	5,625,897	136,044	2.4	2.5	3.6	
Miscellaneous.....							244,517	25,837	218,680	846.4	0.1	(³)	

¹ A minus sign (-) denotes decrease. ² Less than one-tenth of 1 per cent. ³ Includes value of raisins and other dried fruits, wine, cider, vinegar, etc.

The total value of crops in 1909 was \$230,338,000. Of this amount, 93.5 per cent was contributed by crops for which the acreage as well as the value was reported, the remainder consisting of the value of by-products (straw, garden and grass seeds, etc.) derived from the same land as other crops reported, or of orchard fruits, nuts, forest products, and the like.

The combined acreage of crops for which acreage was reported was 11,431,610, representing 59.5 per cent of the total improved land in farms (19,227,969 acres). Most of the remaining improved land doubtless consisted of improved pasture, land lying fallow, house and farm yards, and land occupied by orchards and vineyards, the acreage for which was not reported.

The general character of Ohio agriculture is indicated by the fact that about three-fifths (59.9 per cent) of the total value of crops in 1909 was contributed by the cereals, somewhat less than one-fifth (18.4 per cent) by hay and forage, and somewhat less than one-tenth (9 per cent) by potatoes and other vegetables. The remainder, representing in value 12.7 per cent of the total, consisted mostly of tobacco, fruits and nuts, and forest products.

The total value of crops in 1909 was 46.9 per cent greater than that in 1899; the increase was clearly due in part to higher prices. There was a decrease of 1.6 per cent in the total acreage of crops for which acreage was reported, the principal decrease being that in the acreage of cereals, which was partially offset by increases in the acreage of hay and forage, vegetables, and tobacco.

General farm crops, minor grains and seeds, and sundry minor crops: 1879 to 1909.—The next table presents statistics for 1909 regarding cereals, other grains and seeds, hay and forage, potatoes, tobacco, and sundry minor crops.

The leading crops covered by the table, in the order of their importance as judged by value, are corn, \$82,327,000; hay and forage, \$42,357,000; wheat, \$31,113,000; oats, \$23,212,000; potatoes, \$9,378,000; and tobacco, \$8,999,000. It should be noted, however, that vegetables (other than potatoes and sweet potatoes and yams), reported in another table, are more important than potatoes or tobacco.

By far the most important crop is corn. The reported acreage and value of this cereal form more than one-half of the total acreage and total value of all cereals, and though the acreage is only slightly greater than that of hay and forage, the value of the crop is nearly twice as great. Wheat ranks second in importance among the cereals, both the acreage and the value being somewhat less than one-fourth as great as the total acreage and the total value, respectively, of all cereals. The third in importance of the cereal crops is oats, which had an acreage slightly less than that of wheat and a value about three-fourths as great.

Among the hay and forage crops "timothy alone" ranks first, representing in both acreage and value nearly three-fifths of the entire hay and forage crop. "Timothy and clover mixed," with acreage and value each a little more than one-half as great as those of "timothy alone," ranks second. "Clover alone," with both acreage and value less than one-tenth as great as those of "timothy alone," stands third, while "coarse forage" is fourth.

Potatoes have an acreage slightly more than one-sixteenth that of hay and forage, but a value more

than one-fifth as great. The value of tobacco is slightly less than that of potatoes, and its acreage is about one-half as great.

CROP.	Farms reporting.	Acres harvested.	QUANTITY.		Value.
			Amount.	Unit.	
Cereals, total.....		7,649,873	247,749,763	Bu...	\$137,907,934
Corn.....	233,102	3,916,050	157,513,300	Bu...	82,327,269
Oats.....	150,180	1,787,496	57,591,046	Bu...	23,212,352
Wheat, total.....	137,523	1,827,932	30,663,704	Bu...	31,112,975
Common winter.....	137,455	1,827,263	30,651,880	Bu...	31,100,836
Common spring.....	68	658	11,595	Bu...	11,979
Durum or macaroni.....	6	11	229	Bu...	160
Emmer and spelt.....	74	253	5,185	Bu...	3,053
Barley.....	4,753	24,075	569,279	Bu...	311,741
Buckwheat.....	6,430	26,073	483,410	Bu...	303,220
Rye.....	10,224	67,912	921,919	Bu...	636,276
Kafir corn and milo maize.....	39	82	1,920	Bu...	1,043
Other grains and seeds with acreage report, total¹.....		2,072	22,113	Bu...	42,797
Dry edible beans.....	2,108	1,139	13,665	Bu...	30,062
Soy beans.....	9	33	424	Bu...	843
Dry peas.....	132	323	3,041	Bu...	5,208
Flaxseed.....	120	552	4,809	Bu...	6,307
Seeds with no acreage report, total.....					1,419,439
Timothy seed.....	4,172	(²)	107,048	Bu...	182,656
Clover seed.....	13,861	(²)	169,082	Bu...	1,154,015
Alfalfa seed.....	7	(²)	97	Bu...	925
Millet seed.....	16	(²)	1,215	Bu...	1,149
Other tame grass seed.....	182	(²)	11,163	Bu...	13,391
Flower and garden seeds.....	80	(²)	.....	Bu...	67,303
Hay and forage, total.....	203,044	3,306,461	4,521,409	Tons.	42,357,364
Timothy alone.....	140,080	1,887,960	2,348,660	Tons.	24,388,403
Timothy and clover mixed.....	82,766	1,016,966	1,346,347	Tons.	13,042,834
Clover alone.....	20,329	181,048	239,492	Tons.	2,115,024
Alfalfa.....	6,945	29,439	70,126	Tons.	779,894
Millet or Hungarian grass.....	2,422	8,005	12,104	Tons.	99,490
Other tame or cultivated grasses.....	4,177	53,905	44,965	Tons.	390,892
Wild, salt, or prairie grasses.....	253	2,471	2,945	Tons.	18,460
Grains cut green.....	1,133	5,437	11,970	Tons.	80,970
Coarse forage.....	11,164	121,967	443,512	Tons.	1,432,592
Root forage.....	73	163	1,288	Tons.	8,805
Potatoes.....	199,410	212,808	20,322,984	Bu...	9,377,955
Sweet potatoes and yams.....	8,238	1,143	133,798	Bu...	104,181
Tobacco.....	23,119	106,477	88,603,308	Lbs.	8,998,887
Sundry minor crops, total ³		191			26,332
Broom corn.....	383	170	92,292	Lbs.	9,116
Ginseng.....	32	(⁴)	.....		16,639

¹ Includes small amounts of broom corn seed, peanuts, and sorghum cane seed.
² The entire acreage from which these seeds were secured is believed to be included in the acreage given elsewhere for hay and forage crops, flowers and plants, etc.
³ Includes small amounts of hops and willows.
⁴ Reported in small fractions.

The fluctuations in the acreages of some of the principal crops during the past 30 years are shown in the next table.

With the exception of wheat, the acreage of all the crops shown in the table was greater in 1909 than in any other year for which figures are given. The acreage of wheat reached its maximum in 1899, but was smaller in 1909 than in any other year shown in the table. The acreage of corn, though less in 1889 than in 1879, shows a steady gain for the remainder of the 30-year period. The acreage of oats, though undergoing a slight decrease during the decade 1889-1899, was in 1909 nearly double the acreage in 1879. The acreage of hay and forage shows a steady and considerable increase, being in 1909 about one and one-half times as great as in 1879. The acreage of

potatoes in 1909 shows a slight increase, as compared with 1889. The acreage of tobacco has more than trebled since 1879.

CROP YEAR.	ACRES HARVESTED.					
	Corn.	Oats.	Wheat.	Hay and forage.	Potatoes.	Tobacco.
1909.....	3,916,050	1,787,496	1,827,932	3,306,461	212,808	106,477
1899.....	3,826,013	1,115,149	3,209,074	3,015,261	167,590	71,422
1889.....	3,189,553	1,215,355	2,269,585	2,992,026	185,393	44,303
1879.....	3,281,923	910,358	2,556,134	2,189,782	(¹)	34,676

¹ Not reported.

The following table shows for 1909 and 1899 the percentage which the farms reporting specified crops represented of all farms, the percentage of improved land devoted to these crops, and the percentage of increase or decrease in the acreage of each crop during the decade, together with the average yields and average values per acre for 1909:

CROP.	PER CENT OF FARMS REPORTING.		PER CENT OF IMPROVED LAND.		Per cent of increase in acres: 1899 to 1909 ¹	AVERAGE YIELD PER ACRE.	AVERAGE VALUE PER ACRE.
	1909	1899	1909	1899		1909	1909
Corn.....	85.7	88.4	20.4	19.9	2.4	40.2 Bu.	\$21.02
Oats.....	55.2	46.8	9.3	5.8	60.3	32.2 Bu.	12.99
Wheat.....	50.6	71.4	9.5	16.7	-43.0	16.8 Bu.	17.02
Rye.....	3.8	1.5	0.4	0.1	286.2	13.6 Bu.	9.37
Hay and forage.....	74.6	79.5	17.2	15.7	9.7	1.37 Tons.	12.81
Potatoes.....	73.3	68.9	1.1	0.9	27.0	95.5 Bu.	44.07
Tobacco.....	8.5	6.0	0.6	0.4	49.1	832.1 Lbs.	84.51

¹ A minus sign (-) denotes decrease.

In 1909 corn was reported by 86 out of every 100 farms; hay and forage, by 75; potatoes, by 73; oats, by 55; wheat, by 51; tobacco, by 9; and rye, by 4. The proportions in the case of potatoes, oats, tobacco, and rye were larger in 1909 than in 1899, while those for corn, hay and forage, and wheat were smaller.

In 1909 the seven crops included in the above table covered about 58 per cent of the improved land of the state. Except in the case of wheat, the acreage of which decreased greatly, the percentage of improved land occupied by each crop was larger than in 1899. Corn represented 20.4 per cent of the total acreage of improved land in 1909, as compared with 19.9 per cent in 1899; hay and forage represented 17.2 per cent and 15.7 per cent, respectively, in the two years. The increase in the acreage of hay and forage for the past 10 years is 291,200, or 9.7 per cent.

The average value per acre of all cereals combined is \$18.03, corn exceeding this average, and oats, wheat, and rye falling below it. The average value per acre of hay and forage is about two-thirds as great as that of the cereals. Tobacco has an average value per acre about six and one-half times as great as that of hay and forage and a little less than twice as great as that of potatoes.

Roughly speaking, the western half of the state reported about three-fourths of the total corn acreage. The leading county in the acreage of corn is Wood. The decreases in the acreage of corn are confined almost entirely to the counties in the eastern half of the state, with the exception of a few scattering counties in the northern and northwestern portions of the state and a group along the southern boundary.

More than one-third of the total acreage of wheat was reported from 16 counties, the majority of which are in the southwestern and central parts of the state. The leading county in respect to wheat acreage is Pickaway. The largest absolute decreases in the acreage of wheat are reported from counties in the western half of the state. The oats acreage of 26 counties, almost all of which are in the northwestern quarter of the state, represents nearly three-fifths of the total acreage of oats. Wood County leads in the acreage of oats as well as of corn. Decreases in the acreage of oats were reported from a group of counties in the extreme eastern part of the state and from a few other scattered counties.

Unlike the more important cereals, the acreage of hay and forage is not concentrated to any extent in any one section of the state. The leading county in respect to acreage of hay and forage is Licking. Decreases in acreages occur in 18 counties, and with the exception of a few scattered counties these fall within three groups. The first group consists of Cuyahoga, Summit, Portage, and Trumbull Counties in the north-eastern section of the state; the second, of Van Wert, Mercer, Auglaize, Shelby, and Champaign Counties along the central part of the western boundary; and the third, of Hocking, Ross, Highland, and Pike Counties in the southern part of the state.

More than one-half of the aggregate production of clover seed is reported by a compact group of 16 counties in the northwestern quarter of the state. The production of potatoes is quite evenly distributed throughout the state, Cuyahoga and Portage Counties reporting the largest acreages. Nearly one-half of the total acreage of tobacco is reported by three counties, Darke, Montgomery, and Preble.

Vegetables, flowers and plants, and nursery products: 1909 and 1899.—The next table shows details with regard to vegetables (not including potatoes and sweet potatoes and yams, which appear elsewhere), and also with regard to flowers and plants and nursery products.

In 1909 the total acreage of potatoes and other vegetables was 337,412, and their value \$20,875,927. Excluding (so far as reported separately¹) potatoes and sweet potatoes and yams, the acreage of vegetables was 123,461 and their value \$11,394,000, both acreage

¹ It is probable that some of the potatoes and sweet potatoes and yams raised in farm gardens were not reported separately by farmers, but were included in their returns for vegetables.

and value being materially greater than in 1899. The table distinguishes between farms which make the raising of vegetables a business of some importance (having produced vegetables valued at \$500 or more in 1909) and other farms, on most of which vegetables are raised mainly for home consumption. There were in 1909, 2,405 farms in the first class, representing more than one-fifth of the total acreage of vegetables and about three-tenths of the total value, the average acreage of vegetables per farm for these farms being 10.9 and the average value of product per acre \$124.28.

CROP.	FARMS REPORTING: 1909		ACRES.		VALUE OF PRODUCTS.	
	Number.	Per cent of all farms.	1909	1899	1909	1899
Vegetables, other than potatoes and sweet potatoes and yams, total.....	1218,845	80.4	123,461	103,346	\$11,393,791	\$6,446,236
Farms reporting a product of \$500 or over.....	2,405	0.9	26,225	.....	3,259,193	.....
All other farms.....	216,440	79.6	97,236	.....	8,134,598	.....
Flowers and plants, total.....	765	0.3	1,070	685	2,384,830	1,399,957
Farms reporting a product of \$250 or over.....	572	0.2	.....	.....	2,356,825	.....
All other farms.....	193	0.1	.....	.....	28,005	.....
Nursery products, total.....	272	0.1	4,718	4,699	860,351	538,012
Farms reporting a product of \$250 or over.....	132	(²)	.....	.....	839,698	.....
All other farms.....	140	0.1	.....	.....	20,655	.....

¹ Does not include 23,827 farms which reported that they had vegetable gardens, but gave no information as to their products.
² Less than one-tenth of 1 per cent.

The raising of flowers and of plants and of nursery products was also comparatively important in Ohio, 5,788 acres being devoted to them in 1909, and the output being valued at \$3,245,181. Most of the product was raised on farms where these branches of agriculture were carried on as an important business.

Small fruits: 1909 and 1899.—The following table shows data with regard to small fruits on farms:

CROP.	Number of farms reporting: 1909	ACRES.		Quantity (quarts): 1909	Value: 1909
		1909	1899		
Small fruits, total.....	.....	11,591	21,121	15,721,023	\$1,296,343
Strawberries.....	8,799	4,706	9,373	8,501,065	677,767
Blackberries and dewberries.....	4,207	2,425	3,397	2,465,407	195,294
Raspberries and loganberries.....	6,175	3,869	6,795	4,029,480	364,272
Currants.....	2,861	359	765	460,575	39,829
Gooseberries.....	2,208	226	539	255,840	18,404
Cranberries.....	25	3	.....	4,256	352
Other berries.....	2	3	252	4,400	425

Strawberries are by far the most important of the small fruits grown in Ohio, with raspberries and loganberries and blackberries and dewberries ranking second and third, respectively. The total acreage of small fruits in 1909 was 11,591 and in 1899, 21,121, a decrease of 45.1 per cent. The production in 1909 was 15,721,000 quarts, as compared with 33,736,000 quarts in 1899, and the value \$1,296,000, as compared with \$1,767,000.

Orchard fruits, grapes, nuts, and tropical fruits: 1909 and 1899.—The following table presents data with regard to orchard fruits, grapes, nuts, and tropical fruits. The acreage devoted to these products was not ascertained. In comparing one year with the other the number of trees or vines of bearing age is on the whole a better index of the general changes or tendencies than the quantity of product, but the data for the censuses of 1910 and 1900 are not closely comparable, and the product is therefore compared, although variations may be due largely to temporarily favorable or unfavorable climatic conditions.

CROP.	TREES OR VINES OF BEARING AGE: 1910		TREES OR VINES NOT OF BEARING AGE: 1910		PRODUCT.		
	Farms reporting.	Number.	Farms reporting.	Number.	1909		1899
					Quantity. ¹	Value.	Quantity. ¹
Orchard fruits total.....	14,933,813	5,608,742	6,711,208	\$5,691,530	21,399,273	20,617,480	
Apples.....	201,044	8,504,886	77,900	2,438,246	4,663,752	2,970,851	
Peaches and nectarines.....	102,863	3,133,368	50,736	2,092,300	1,036,340	1,349,311	
Pears.....	113,897	899,019	88,248	333,739	374,871	332,727	
Plums and prunes.....	96,203	1,001,734	33,053	332,811	215,657	278,505	
Cherries.....	117,806	1,144,271	38,696	342,328	338,644	657,406	
Apricots.....	2,456	5,462	660	1,873	835	1,343	
Quinces.....	55,668	245,040	12,891	62,413	81,101	101,369	
Mulberries.....	11	33	5	32	8	18	
Unclassified.....	.....	.....	.....	.....	.....	21,704
Grapes.....	82,576	8,326,800	12,295	455,750	43,933,207	858,594	
Nuts, total.....	21,702	4,868	559,093	11,691	295,250	.....
Persian or English walnuts.....	71	599	30	220	2,461	154	
Pecans.....	21	81	19	308	1,010	70	
Black walnuts.....	945	8,693	166	3,399	354,135	4,645	
Chestnuts.....	289	3,347	10	107	36,091	2,584	
Butternuts.....	79	875	8	123	29,100	360	
Hickory nuts.....	674	8,053	35	674	135,628	3,856	
Unclassified.....	.....	.....	.....	.....	.....	295,250
Tropical fruits total.....	29	126	8	33	710	546	
Figs.....	29	117	8	33	710	39	

¹ Expressed in bushels for orchard fruits and pounds for grapes, nuts, and figs.
² Included with "unclassified."
³ Consists of products not separately named by the enumerator, but grouped under the designation "all other."
⁴ Includes Japanese walnuts, hazelnuts, American nuts, and other nuts.
⁵ Includes Japanese persimmons.

The total quantity of orchard fruits produced in 1909 was 6,711,000 bushels, valued at \$5,692,000. Apples contributed about two-thirds of this quantity, peaches and nectarines most of the remainder. The production of grapes in 1909 amounted to 43,933,000 pounds, valued at \$859,000, and that of nuts to 559,000 pounds, valued at \$12,000.

The production of all orchard fruits together in 1909 was 68.6 per cent less than that in 1899, and the production of grapes also decreased decidedly. The total value of orchard fruits decreased from \$6,141,000 in 1899 to \$5,692,000 in 1909, and that of grapes from \$993,000 in 1899 to \$859,000 in 1909. It should be noted in this connection that the values for 1899 include the value of more advanced products derived from orchard fruits or grapes, such as cider, vinegar, dried fruits, and the like, and may therefore involve

some duplication, while the values shown for 1909 relate only to the products in their original condition.

The following table shows the quantities of the more advanced products manufactured by farmers from orchard fruits and grapes. Values were not called for on the schedule.

PRODUCT.	FARMS REPORTING: 1909		QUANTITY PRODUCED.		
	Number.	Percent of all farms	Unit.	1909	1899
Cider.....	30,511	11.2	Gals.	2,889,237	12,618,207
Vinegar.....	10,386	3.8	Gals.	483,908	2,265,134
Wine and grape juice.....	4,425	1.6	Gals.	204,213	350,615
Dried fruits.....	1,835	0.7	Lbs.	65,432	1,191,170

Forest products: 1909 and 1899.—The census schedules for 1910 called for the "value of all firewood, fencing material, logs, railroad ties, telegraph and telephone poles, materials for barrels, bark, naval stores, or other forest products cut or produced in 1909, whether used on farm, sold, or on hand April 15, 1910;" and also, in a separate item, for the "amount received from sale of standing timber in 1909." There were 75,406 farms in Ohio (27.7 per cent of all farms in the state) which reported forest products in 1909, the total value of such products being \$5,761,941, as compared with \$5,625,897 in 1899, an increase of 2.4 per cent. Of the value in 1909, \$3,004,769 was reported as that of products used or to be used on the farms themselves, \$1,330,531 as that of products sold or for sale, and \$1,426,641 as the amount received for standing timber. It should be noted that forest products not produced on farms are not included in this report.

SELECTED FARM EXPENSES AND RECEIPTS.

Farm expenses: 1909 and 1899.—The next table shows the number of farms reporting expenditures for labor, feed, and fertilizer at the census of 1910, as well as the sums expended in 1909 and 1899:

EXPENSE.	1909			1899	INCREASE.	
	Farms reporting.		Amount.	Amount.	Amount.	Per cent.
	Number.	Percent of all farms.				
Labor.....	145,515	53.5	\$25,631,185	\$14,502,600	\$11,128,585	76.7
Feed.....	95,050	34.9	8,445,761	(¹)		
Fertilizer.....	113,888	43.7	4,180,485	2,695,470	1,485,015	55.1

¹ Not reported at the census of 1900.

Sugar crops: 1909 and 1899.—The table below shows data with regard to maple trees and their products, and also for sugar beets and sorghum cane. The total value of maple sugar and sirup produced in 1909 was \$1,099,000, as compared with \$665,000 in 1899.

PRODUCT.	FARMS REPORTING.		Acres.	PRODUCT.		
	Number.	Percent of all farms.		Amount.	Unit.	Value.
Maple sugar and sirup:						
Total, 1909.....	12,103	4.4	1,370,828			\$1,099,248
Sugarmade.....	1,052	0.4		257,592	Lbs.	27,918
Sirup made.....	12,061	4.4		1,323,431	Gals.	1,071,330
Total, 1899.....	12,067	4.4				665,226
Sugarmade.....				613,990	Lbs.	48,736
Sirup made.....				923,519	Gals.	616,490
Sugar beets, 1909 ² ..	1,139	0.4	7,036	63,696	Tons.	319,667
Sorghum cane:						
Total, 1909 ³						180,543
Cane grown.....	11,900	4.4	4,709	28,644	Tons.	
Sirup made.....	11,651	4.3		354,131	Gals.	177,020
Total, 1899.....						126,781
Cane grown.....	12,418	4.5	5,037	38,759	Tons.	
Cane sold as such.....				1,855	Tons.	5,651
Sirup made.....				341,523	Gals.	121,130

¹ Number of trees.

² Includes beets used as root storage.

³ Includes cane used as coarse forage.

Miscellaneous crops: 1909.—Straw and cornstalks derived as by-products from the production of grain and corn have a considerable value for feed and other purposes. They are, however, mainly consumed on the farms producing them. The Census Bureau made no attempt to ascertain the total quantity or value of these products, but the schedules called for the quantity and value of those sold during the year 1909. The returns show that 5,900 farmers in Ohio sold, during 1909, 55,516 tons of straw, for which they received \$195,363, and that 2,587 farmers sold 14,673 tons of cornstalks and leaves, for which they received \$48,362.

Over half of the farmers hire labor, the average amount expended by the farmers hiring being \$176. During the decade the total expenditure for labor increased \$11,129,000, or 76.7 per cent. About a fifth of the amount reported as expended for labor is in the form of rent and board. At prior censuses no tabulation was made of the number of farmers reporting expenditures for labor.

About one farmer out of every three reports some expenditure for feed, and about four out of every ten purchase fertilizer. The total amount reported as paid for fertilizer has increased \$1,485,000, or 55.1 per cent, during the decade, the average per farm reporting being \$35.16.

Receipts from sale of feedable crops: 1909.—An effort was made at the census of 1910 to secure as complete a statement as possible of the sales as well as of the production of the more important feedable crops (that is, crops ordinarily fed to live stock). The next table summarizes the data reported.

While the amount expended for the purchase of feed in 1909 was \$8,446,000, the total receipts from sales of feed by those reporting sales amounted to \$31,396,000.

CROP.	FARMS REPORTING.		QUANTITY SOLD.		Amount received.
	Number.	Percent of all farms.	Amount.	Unit.	
Total					\$31,396,130
Corn	65,817	24.2	26,555,088	Bu.	14,498,215
Oats	57,414	21.1	13,056,694	Bu.	7,161,738
Barley	836	0.3	110,543	Bu.	61,113
Hay and coarse forage.	66,997	24.6	1,006,793	Tons...	9,675,064

COUNTY TABLES.

Tables 1 to 6, which follow, present by counties the more important agricultural data collected at the Thirteenth Census, 1910.

Table 1 shows the population, number of farms, land and farm area, value of farm property, and number and value of domestic animals and of poultry and bees, as of April 15, 1910. Comparative data for June 1, 1900, are given in italics for certain items.

Table 2 gives the number of farms, the farm acreage, and the value of farm property operated by owners, tenants, and managers, collected as of April 15, 1910. Statistics of farm mortgages are included in this table. (See explanation in text.)

Table 3 gives statistics pertaining to the products of live stock on farms (dairy products, poultry and eggs, honey and wax, and wool and mohair); also the number and value of domestic animals sold or slaughtered on farms for the year 1909.

Table 4 shows the total value of farm crops and the principal classes thereof, together with the acreage (or trees of bearing age) and production of the principal crops for the year 1909.

Table 5 gives statistics relating to selected farm expenses for 1909 and also shows the receipts from the sale of feedable crops.

Table 6 shows the number and value of domestic animals in barns and inclosures not on farms, by classes, together with the number of dairy cows and mature horses and mules, on April 15, 1910.

Changes in 1900 figures.—After the volumes of the Twelfth Decennial United States Census (1900) had been printed a further detailed study and analysis of the data there presented brought to light certain errors in the total farm acreage of Highland County. The corrected acreage is 348,414, and not 363,892 as shown in the county tables.

TABLE 1.—FARMS AND FARM PROPERTY,

[Comparative data for June 1, 1900, in italics.]

	THE STATE.	Adams.	Allen.	Ashland.	Ashtabula.	Athens.
1 Population.....	4,767,121	24,755	56,580	22,975	59,547	47,798
2 <i>Population in 1900.....</i>	<i>4,187,645</i>	<i>28,328</i>	<i>47,976</i>	<i>21,184</i>	<i>61,448</i>	<i>58,750</i>
3 Number of all farms.....	272,045	3,634	2,939	2,667	4,926	2,726
4 <i>Number of all farms in 1900.....</i>	<i>276,719</i>	<i>3,683</i>	<i>2,858</i>	<i>2,631</i>	<i>5,038</i>	<i>5,004</i>
5 Color and nativity of farmers:						
6 Native white.....	252,045	3,602	2,809	2,587	4,439	2,607
7 Foreign-born white.....	17,450	22	127	80	481	85
8 Negro and other nonwhite.....	1,950	10	3	.....	6	34
9 Number of farms, classified by size:						
10 Under 3 acres.....	749	1	5	2	18	4
11 3 to 9 acres.....	19,448	241	158	146	310	171
12 10 to 19 acres.....	18,716	314	154	118	362	193
13 20 to 49 acres.....	50,331	616	576	333	1,024	557
14 50 to 99 acres.....	88,047	1,047	1,188	895	1,699	805
15 100 to 174 acres.....	68,746	1,061	731	928	1,107	608
16 175 to 259 acres.....	18,211	239	144	188	303	229
17 260 to 499 acres.....	6,902	103	32	56	96	125
18 500 to 999 acres.....	783	9	1	1	6	31
19 1,000 acres and over.....	112	3	.....	.....	1	8
LAND AND FARM AREA						
20 Approximate land area..... acres.....	26,073,600	349,440	259,840	269,440	462,720	311,680
21 Land in farms..... acres.....	24,105,708	327,409	240,472	258,525	399,187	286,923
22 <i>Land in farms in 1900.....</i>	<i>24,501,085</i>	<i>325,135</i>	<i>245,883</i>	<i>254,689</i>	<i>416,963</i>	<i>297,168</i>
23 Improved land in farms..... acres.....	19,227,969	219,768	203,222	203,110	261,685	201,673
24 <i>Improved land in farms in 1900.....</i>	<i>19,244,472</i>	<i>212,928</i>	<i>193,455</i>	<i>202,677</i>	<i>244,013</i>	<i>229,599</i>
25 Woodland in farms..... acres.....	3,285,376	80,833	22,316	41,131	61,492	53,734
26 Other unimproved land in farms..... acres.....	1,560,353	26,868	4,934	14,284	76,010	31,516
27 Per cent of land area in farms.....	92.5	92.5	95.9	95.9	86.3	92.1
28 Per cent of farm land improved.....	79.8	67.1	84.5	78.6	65.6	70.3
29 Average acres per farm.....	88.6	90.1	81.8	96.9	81.0	105.3
30 Average improved acres per farm.....	70.7	60.5	69.1	76.2	53.1	74.0
VALUE OF FARM PROPERTY						
31 All farm property..... dollars.....	1,902,694,589	10,406,851	25,992,184	18,760,355	22,495,088	10,170,285
32 <i>All farm property in 1900.....</i>	<i>1,198,983,246</i>	<i>6,650,169</i>	<i>13,752,968</i>	<i>12,019,893</i>	<i>15,753,310</i>	<i>8,769,587</i>
33 Per cent increase, 1900-1910.....	58.7	56.5	89.0	56.2	42.8	16.1
34 Land..... dollars.....	1,285,894,812	6,038,868	18,343,284	11,837,747	12,534,904	6,335,592
35 <i>Land in 1900.....</i>	<i>817,163,710</i>	<i>4,009,020</i>	<i>9,415,270</i>	<i>7,733,720</i>	<i>9,131,730</i>	<i>5,832,510</i>
36 Buildings..... dollars.....	308,257,594	2,313,985	4,412,075	4,135,794	6,376,258	2,115,271
37 <i>Buildings in 1900.....</i>	<i>219,461,470</i>	<i>1,523,710</i>	<i>2,451,680</i>	<i>2,508,140</i>	<i>4,127,170</i>	<i>1,500,680</i>
38 Implements and machinery..... dollars.....	51,210,071	406,275	611,579	590,782	820,087	308,861
39 <i>Implements, etc., in 1900.....</i>	<i>36,354,160</i>	<i>263,270</i>	<i>416,320</i>	<i>413,070</i>	<i>595,630</i>	<i>258,500</i>
40 Domestic animals, poultry, and bees..... dollars.....	1,197,352,112	1,648,223	2,625,246	2,196,032	2,763,839	1,410,561
41 <i>Domestic animals, etc., in 1900.....</i>	<i>126,964,616</i>	<i>1,054,169</i>	<i>1,469,218</i>	<i>1,363,933</i>	<i>1,898,780</i>	<i>1,167,917</i>
42 Per cent of value of all property in—						
43 Land.....	67.6	58.0	70.6	63.1	55.7	62.3
44 Buildings.....	19.4	22.2	17.0	22.0	28.3	20.8
45 Implements and machinery.....	2.7	3.9	2.4	3.1	3.6	3.0
46 Domestic animals, poultry, and bees.....	10.4	15.8	10.1	11.7	12.3	13.9
47 Average values:						
48 All property per farm..... dollars.....	6,994	2,864	8,844	7,034	4,567	3,731
49 Land and buildings per farm..... dollars.....	6,080	2,298	7,743	5,989	3,839	3,100
50 Land per acre..... dollars.....	53.34	18.44	76.28	45.79	31.49	22.08
51 <i>Land per acre in 1900.....</i>	<i>33.35</i>	<i>12.53</i>	<i>38.39</i>	<i>30.37</i>	<i>21.90</i>	<i>19.68</i>
DOMESTIC ANIMALS (farms and ranges)						
52 Farms reporting domestic animals.....	260,265	3,376	2,577	2,601	4,632	2,508
53 Value of domestic animals..... dollars.....	187,523,324	1,531,079	2,501,226	2,089,161	2,632,756	1,327,524
54 Cattle:						
55 Total number.....	1,837,607	15,831	20,449	18,691	41,889	16,327
56 Dairy cows.....	905,125	6,564	9,958	8,978	25,422	6,851
57 Other cows.....	142,261	1,473	1,497	1,770	1,794	1,023
58 Yearling heifers.....	235,392	2,150	2,463	2,426	4,944	2,481
59 Calves.....	255,622	1,721	3,141	2,505	8,276	1,857
60 Yearling steers and bulls.....	142,089	1,803	1,804	1,415	692	1,884
61 Other steers and bulls.....	157,058	2,120	1,296	1,297	761	1,631
62 Value..... dollars.....	51,403,341	411,056	550,948	511,005	1,266,524	387,460
63 Horses:						
64 Total number.....	910,224	8,866	11,910	9,349	12,423	6,758
65 Mature horses.....	814,507	7,773	10,370	8,452	11,526	5,971
66 Yearling colts.....	73,520	859	1,119	739	798	670
67 Spring colts.....	22,197	234	421	158	99	117
68 Value..... dollars.....	98,910,638	882,607	1,391,032	1,130,986	1,176,983	628,980
69 Mules:						
70 Total number.....	22,850	436	166	114	137	145
71 Mature mules.....	20,904	384	149	107	110	125
72 Yearling colts.....	1,601	49	15	6	24	16
73 Spring colts.....	345	3	2	1	3	4
74 Value..... dollars.....	2,775,831	49,344	21,635	18,412	16,304	14,660
75 Asses and burros:						
76 Number.....	488	9	5	1	3	5
77 Value..... dollars.....	61,560	975	20	200	485	500
78 Swine:						
79 Total number.....	3,105,627	19,806	59,031	27,933	12,667	8,535
80 Mature hogs.....	1,574,009	11,067	29,285	14,105	6,520	4,260
81 Spring pigs.....	1,531,618	3,739	29,746	13,828	6,147	4,275
82 Value..... dollars.....	19,412,730	130,481	360,317	180,283	100,533	55,998
83 Sheep:						
84 Total number.....	3,609,162	14,991	40,024	63,690	15,526	69,822
85 Rams, ewes, and wethers.....	2,890,163	9,456	25,552	43,473	10,473	59,057
86 Spring lambs.....	1,018,999	5,535	15,372	20,216	5,053	10,765
87 Value..... dollars.....	14,941,381	56,445	171,009	248,227	70,617	239,544
88 Goats:						
89 Number.....	5,379	56	121	28	232	161
90 Value..... dollars.....	17,843	171	265	48	1,270	382
POULTRY AND BEES						
91 Number of poultry of all kinds.....	17,342,289	223,290	238,967	191,443	194,120	136,606
92 Value..... dollars.....	9,532,672	110,337	121,459	104,818	121,050	78,625
93 Number of colonies of bees.....	98,242	3,072	908	928	2,659	1,670
94 Value..... dollars.....	275,726	6,757	2,561	2,053	10,023	4,612

1 Includes deer, valued at \$390.

TABLE 1.—FARMS AND FARM PROPERTY,

[Comparative data for June 1, 1900, in italics.]

	Darke.	Defiance.	Delaware.	Erie.	Fairfield.	Fayette.	Franklin.	Fulton.
1 Population.....	42,933	24,498	27,182	38,327	39,201	21,744	221,567	23,914
2 <i>Population in 1900</i>	<i>42,632</i>	<i>26,887</i>	<i>26,401</i>	<i>57,650</i>	<i>34,259</i>	<i>21,725</i>	<i>164,460</i>	<i>22,801</i>
3 Number of all farms.....	5,503	2,659	3,073	1,956	3,407	1,846	3,842	3,124
4 <i>Number of all farms in 1900</i>	<i>6,365</i>	<i>2,760</i>	<i>3,155</i>	<i>1,970</i>	<i>3,426</i>	<i>1,955</i>	<i>3,636</i>	<i>3,275</i>
5 Color and nativity of farmers:								
6 Native white.....	5,311	2,410	3,014	1,532	3,346	1,820	3,540	2,916
7 Foreign-born white.....	132	249	48	418	58	11	260	208
8 Negro and other nonwhite.....	60	.....	11	6	.....	15	42	.....
9 Number of farms, classified by size:								
10 Under 3 acres.....	6	2	5	9	8	.....	35	1
11 3 to 9 acres.....	359	103	220	187	247	112	349	116
12 10 to 19 acres.....	376	95	198	227	229	101	402	106
13 20 to 49 acres.....	1,402	441	505	404	614	226	739	661
14 50 to 99 acres.....	2,276	1,068	994	583	1,077	410	1,165	1,390
15 100 to 174 acres.....	962	737	808	401	910	520	803	730
16 175 to 259 acres.....	105	170	247	109	234	275	244	90
17 260 to 499 acres.....	16	46	90	34	82	159	98	21
18 500 to 999 acres.....	1	5	6	2	5	39	.....	.....
19 1,000 acres and over.....	.....	2	.....	.....	1	4	2	.....
LAND AND FARM AREA								
20 Approximate land area..... acres.	375,040	259,200	284,800	163,840	316,800	264,320	330,880	259,200
21 Land in farms..... acres.	372,180	249,682	276,582	144,319	301,067	249,140	306,261	246,256
22 <i>Land in farms in 1900</i> acres.	<i>370,582</i>	<i>244,798</i>	<i>282,596</i>	<i>148,416</i>	<i>308,689</i>	<i>248,198</i>	<i>310,053</i>	<i>247,129</i>
23 Improved land in farms..... acres.	325,757	190,187	230,113	119,010	260,999	234,463	277,044	203,334
24 <i>Improved land in farms in 1900</i> acres.	<i>311,867</i>	<i>176,646</i>	<i>234,482</i>	<i>125,140</i>	<i>266,174</i>	<i>225,676</i>	<i>274,495</i>	<i>196,741</i>
25 Woodland in farms..... acres.	40,325	45,787	35,573	12,059	29,904	12,464	19,741	32,290
26 Other unimproved land in farms..... acres.	6,098	13,708	10,896	13,250	10,164	2,213	9,470	10,320
27 Per cent of land area in farms.....	99.2	96.3	97.1	88.1	95.0	94.3	92.6	95.0
28 Per cent of farm land improved.....	87.5	76.2	83.2	82.5	86.7	94.1	90.5	82.6
29 Average acres per farm.....	67.6	93.9	90.0	73.8	88.4	135.0	79.7	78.8
30 Average improved acres per farm.....	59.2	71.5	74.9	60.8	76.6	127.0	72.1	65.1
VALUE OF FARM PROPERTY								
31 All farm property..... dollars.	42,193,809	22,899,778	23,510,844	15,822,819	26,703,061	26,756,525	38,892,033	25,606,733
32 <i>All farm property in 1900</i> dollars.	<i>22,007,450</i>	<i>11,922,420</i>	<i>15,366,614</i>	<i>10,547,996</i>	<i>16,550,887</i>	<i>16,454,210</i>	<i>27,900,329</i>	<i>14,317,050</i>
33 Per cent increase, 1900-1910.....	91.7	92.1	75.9	50.0	61.3	73.1	39.4	78.2
34 Land..... dollars.	29,969,987	16,328,869	15,872,489	10,569,873	18,853,064	21,159,925	28,701,547	16,930,074
35 <i>Land in 1900</i> dollars.	<i>15,202,920</i>	<i>8,025,050</i>	<i>9,148,000</i>	<i>7,222,170</i>	<i>11,586,210</i>	<i>11,022,110</i>	<i>21,563,520</i>	<i>9,651,240</i>
36 Buildings..... dollars.	7,669,535	3,860,294	4,014,185	3,654,117	4,443,719	2,073,620	6,389,047	5,171,482
37 <i>Buildings in 1900</i> dollars.	<i>3,911,070</i>	<i>2,229,460</i>	<i>2,156,660</i>	<i>2,321,550</i>	<i>2,647,480</i>	<i>1,954,120</i>	<i>3,462,760</i>	<i>2,767,160</i>
38 Implements and machinery..... dollars.	1,080,130	611,943	584,717	419,720	737,285	490,770	763,987	659,716
39 <i>Implements, etc., in 1900</i> dollars.	<i>857,020</i>	<i>441,190</i>	<i>345,780</i>	<i>273,590</i>	<i>482,020</i>	<i>322,440</i>	<i>657,280</i>	<i>458,960</i>
40 Domestic animals, poultry, and bees..... dollars.	3,474,157	2,098,672	3,039,453	1,179,109	2,668,993	2,432,210	3,037,452	2,745,461
41 <i>Domestic animals, etc., in 1900</i> dollars.	<i>2,036,420</i>	<i>1,226,720</i>	<i>1,716,274</i>	<i>730,686</i>	<i>1,836,177</i>	<i>1,656,640</i>	<i>1,921,779</i>	<i>1,659,706</i>
42 Per cent of value of all property in—								
43 Land.....	71.0	71.3	67.5	66.8	70.6	79.1	73.8	6.4
44 Buildings.....	18.2	16.9	17.1	23.1	16.6	10.0	16.4	20.3
45 Implements and machinery.....	2.6	2.7	2.5	2.7	2.8	1.8	2.0	2.6
46 Domestic animals, poultry, and bees.....	8.2	9.2	12.9	7.5	10.0	9.1	7.8	10.8
47 Average values:								
48 All property per farm..... dollars.	7,667	8,612	7,651	8,089	7,838	14,494	10,123	8,165
49 Land and buildings per farm..... dollars.	6,840	7,593	6,471	7,272	6,838	12,911	9,133	7,075
50 Land per acre..... dollars.	80.53	65.40	57.39	73.24	62.62	84.93	93.72	68.75
51 <i>Land per acre in 1900</i> dollars.	<i>41.05</i>	<i>32.73</i>	<i>32.59</i>	<i>48.66</i>	<i>57.54</i>	<i>46.83</i>	<i>70.82</i>	<i>38.66</i>
DOMESTIC ANIMALS (farms and ranges)								
52 Farms reporting domestic animals.....	5,305	2,621	2,983	1,877	3,285	1,804	3,725	3,061
53 Value of domestic animals..... dollars.	3,279,971	1,970,160	2,909,362	1,106,815	2,549,419	2,335,193	2,892,044	2,575,578
54 Cattle:								
55 Total number.....	30,455	16,752	27,047	9,537	25,483	15,350	30,146	26,336
56 Dairy cows.....	15,886	8,846	13,527	5,427	9,921	4,868	10,308	10,089
57 Other cows.....	2,226	1,644	2,128	779	2,012	1,084	2,236	1,310
58 Yearling heifers.....	4,279	2,466	3,637	1,134	2,848	1,524	3,742	3,486
59 Calves.....	4,689	2,633	3,635	1,350	2,731	1,455	3,769	3,955
60 Yearling steers and bulls.....	2,125	1,248	2,105	430	3,080	1,708	1,864	799
61 Other steers and bulls.....	1,250	625	2,015	417	4,891	4,711	2,237	697
62 Value..... dollars.	794,785	461,832	774,498	293,865	715,822	524,263	954,045	903,319
63 Horses:								
64 Total number.....	19,703	9,999	12,735	6,079	12,766	11,639	14,820	10,717
65 Mature horses.....	17,661	8,698	11,123	5,574	11,545	10,155	13,263	9,540
66 Yearling colts.....	1,433	948	1,243	388	926	1,100	1,137	953
67 Spring colts.....	609	353	369	117	295	384	420	224
68 Value..... dollars.	2,000,091	1,179,190	1,480,651	652,783	1,377,152	1,137,724	1,488,141	1,348,206
69 Mules:								
70 Total number.....	423	101	209	28	212	409	416	84
71 Mature mules.....	394	93	193	26	204	374	403	77
72 Yearling colts.....	5	5	11	2	8	26	13	4
73 Spring colts.....	24	3	5	.....	.....	9	.....	.....
74 Value..... dollars.	48,762	13,475	27,265	3,250	27,417	46,758	59,223	10,700
75 Asses and burros:								
76 Number.....	8	1	8	.....	4	1	8	.....
77 Value..... dollars.	65	10	913	.....	650	40	1,200	.....
78 Swine:								
79 Total number.....	61,425	28,148	53,661	12,590	49,162	93,560	50,763	32,781
80 Mature hogs.....	32,551	13,021	23,794	6,526	28,186	43,429	20,996	10,407
81 Spring pigs.....	28,874	15,127	24,867	6,064	20,976	50,131	23,767	16,374
82 Value..... dollars.	383,356	175,254	308,335	85,267	328,560	521,064	323,041	213,442
83 Sheep:								
84 Total number.....	10,761	32,501	82,703	19,715	26,731	24,025	16,636	23,725
85 Rams, ewes, and wethers.....	6,344	19,808	58,165	13,413	18,582	16,615	11,020	15,853
86 Spring lambs.....	4,417	12,693	24,538	6,302	8,149	7,410	5,616	7,869
87 Value..... dollars.	52,838	140,365	317,387	71,388	99,692	105,299	66,284	99,324
88 Goats:								
89 Number.....	29	18	100	163	61	15	28	49
90 Value..... dollars.	74	34	313	202	126	45	105	87
POULTRY AND BEES								
91 Number of poultry of all kinds.....	377,667	226,650	239,586	110,434	242,233	180,394	256,825	280,224
92 Value..... dollars.	191,535	126,129	127,532	70,222	116,449	95,186	142,050	168,446
93 Number of colonies of bees.....	1,150	758	819	698	1,254	807	1,018	519
94 Value..... dollars.	2,351	2,383	2,559	2,072	3,125	1,831	3,358	1,437

1 See explanation for 1900 figures at close of text.

TABLE I.—FARMS AND FARM PROPERTY,

[Comparative data for June 1, 1900, in italics.]

	Jackson.	Jefferson.	Knox.	Lake.	Lawrence.	Licking.	Logan.	Lorain.
1 Population.....	30,791	65,423	30,181	22,927	39,488	55,590	30,084	76,037
2 <i>Population in 1900.....</i>	<i>34,248</i>	<i>44,357</i>	<i>27,768</i>	<i>21,680</i>	<i>59,534</i>	<i>47,070</i>	<i>30,480</i>	<i>54,887</i>
3 Number of all farms.....	2,178	1,934	3,272	1,945	2,940	4,307	2,886	3,588
4 <i>Number of all farms in 1900.....</i>	<i>2,078</i>	<i>2,011</i>	<i>3,425</i>	<i>1,902</i>	<i>2,945</i>	<i>4,458</i>	<i>3,172</i>	<i>3,680</i>
5 Color and nativity of farmers:								
6 Native white.....	2,015	1,796	3,219	1,608	2,829	4,247	2,799	2,910
7 Foreign-born white.....	88	149	51	331	38	58	42	657
8 Negro and other nonwhite.....	75	39	2	6	73	2	45	19
9 Number of farms, classified by size:								
10 Under 3 acres.....	2	5	3	11	4	11	10	7
11 3 to 9 acres.....	211	122	193	261	290	262	206	233
12 10 to 19 acres.....	131	100	196	245	318	248	154	256
13 20 to 49 acres.....	486	235	479	535	956	691	420	750
14 50 to 99 acres.....	555	466	977	490	799	1,335	920	1,201
15 100 to 174 acres.....	461	633	997	273	405	1,220	836	780
16 175 to 259 acres.....	212	252	305	85	105	374	241	205
17 260 to 499 acres.....	98	99	114	38	51	152	90	66
18 500 to 999 acres.....	16	11	8	6	3	13	5	7
19 1,000 acres and over.....	6	1	.....	3	4	1	4	1
LAND AND FARM AREA								
20 Approximate land area..... acres..	258,560	260,480	328,320	154,240	283,520	428,160	288,640	318,080
21 Land in farms..... acres..	237,014	229,405	324,716	130,745	205,345	414,806	278,978	285,729
22 <i>Land in farms in 1900.....</i>	<i>234,173</i>	<i>246,989</i>	<i>326,049</i>	<i>132,214</i>	<i>209,915</i>	<i>417,080</i>	<i>289,777</i>	<i>296,122</i>
23 Improved land in farms..... acres..	172,118	158,350	269,353	92,300	133,733	357,929	226,389	232,934
24 <i>Improved land in farms in 1900.....</i>	<i>184,057</i>	<i>173,347</i>	<i>267,660</i>	<i>94,812</i>	<i>142,335</i>	<i>363,412</i>	<i>226,557</i>	<i>232,680</i>
25 Woodland in farms..... acres..	40,944	46,563	41,955	23,170	44,132	43,630	37,245	33,881
26 Other unimproved land in farms..... acres..	23,952	24,492	13,408	15,278	27,480	13,247	15,344	13,864
27 Per cent of land area in farms.....	91.7	88.1	98.9	84.8	72.4	96.9	96.6	89.8
28 Per cent of farm land improved.....	72.6	69.0	83.0	70.6	65.1	86.3	81.1	81.5
29 Average acres per farm.....	108.8	115.6	99.2	67.2	69.8	96.3	96.7	79.7
30 Average improved acres per farm.....	79.0	79.8	82.3	47.5	45.5	83.1	78.4	65.0
VALUE OF FARM PROPERTY								
31 All farm property..... dollars..	5,721,629	11,505,843	22,994,287	17,262,595	5,862,056	28,632,428	22,653,264	25,367,746
32 <i>All farm property in 1900.....</i>	<i>4,496,996</i>	<i>9,432,432</i>	<i>13,536,032</i>	<i>10,494,130</i>	<i>4,912,637</i>	<i>18,473,609</i>	<i>12,894,525</i>	<i>17,538,515</i>
33 Per cent increase, 1900-1910.....	27.2	21.3	69.9	64.5	19.3	55.0	75.7	44.6
34 Land..... dollars..	3,500,260	7,352,874	15,189,560	10,976,095	3,586,505	19,143,745	15,531,443	15,876,504
35 <i>Land in 1900.....</i>	<i>2,794,470</i>	<i>6,034,470</i>	<i>9,245,540</i>	<i>6,904,160</i>	<i>3,069,330</i>	<i>12,519,460</i>	<i>8,809,190</i>	<i>11,436,270</i>
36 Buildings..... dollars..	1,188,787	2,512,137	4,335,518	4,899,364	1,286,438	5,315,092	3,842,528	5,988,459
37 <i>Buildings in 1900.....</i>	<i>844,480</i>	<i>1,942,440</i>	<i>2,171,450</i>	<i>2,676,210</i>	<i>1,009,000</i>	<i>3,124,010</i>	<i>2,022,260</i>	<i>3,891,950</i>
38 Implements and machinery..... dollars..	173,953	308,213	514,467	417,382	173,841	788,146	553,803	807,964
39 <i>Implements, etc., in 1900.....</i>	<i>147,570</i>	<i>283,490</i>	<i>368,660</i>	<i>270,130</i>	<i>171,060</i>	<i>533,500</i>	<i>384,870</i>	<i>533,090</i>
40 Domestic animals, poultry, and bees..... dollars..	858,629	1,332,619	2,954,742	969,754	815,272	3,385,445	1,725,490	2,684,819
41 <i>Domestic animals, etc., in 1900.....</i>	<i>710,536</i>	<i>1,222,152</i>	<i>1,760,432</i>	<i>643,630</i>	<i>668,257</i>	<i>2,206,639</i>	<i>1,678,205</i>	<i>1,677,205</i>
42 Per cent of value of all property in—								
43 Land.....	61.2	63.9	66.1	63.6	61.2	66.9	68.6	62.6
44 Buildings.....	20.8	21.8	18.9	28.4	21.9	18.6	17.0	23.6
45 Implements and machinery.....	3.0	2.7	2.2	2.4	3.0	2.8	2.4	3.2
46 Domestic animals, poultry, and bees.....	15.0	11.6	12.8	5.6	13.9	11.8	12.0	10.6
47 Average values:								
48 All property per farm..... dollars..	2,627	5,799	7,028	8,875	1,994	6,648	7,849	7,074
49 Land and buildings per farm..... dollars..	2,153	4,972	5,967	8,162	1,657	5,079	6,713	6,100
50 Land per acre..... dollars..	14.77	32.05	46.78	83.95	17.47	46.15	55.67	55.56
51 <i>Land per acre in 1900.....</i>	<i>11.98</i>	<i>24.43</i>	<i>28.36</i>	<i>52.22</i>	<i>14.62</i>	<i>50.02</i>	<i>30.40</i>	<i>33.62</i>
DOMESTIC ANIMALS (farms and ranges)								
52 Farms reporting domestic animals.....	2,033	1,877	3,158	1,713	2,749	4,169	2,812	3,461
53 Value of domestic animals..... dollars..	809,561	1,276,024	2,830,861	917,784	766,711	3,224,464	2,599,786	2,535,041
54 Cattle:								
55 Total number.....	14,636	15,555	21,444	9,414	12,677	32,511	21,097	29,352
56 Dairy cows.....	4,962	7,793	9,189	6,001	5,901	14,571	9,825	17,506
57 Other cows.....	1,721	1,745	1,710	551	1,009	3,098	1,784	1,416
58 Yearling heifers.....	1,917	1,956	2,894	1,254	1,783	4,488	2,834	3,708
59 Calves.....	1,508	2,009	2,493	1,254	1,367	4,170	3,008	5,077
60 Yearling steers and bulls.....	2,022	1,233	2,107	214	1,227	3,096	1,649	1,094
61 Other steers and bulls.....	2,506	819	2,961	140	1,390	3,088	1,997	551
62 Value..... dollars..	298,039	396,364	605,195	389,729	262,307	879,684	601,973	1,010,118
63 Horses:								
64 Total number.....	4,636	5,922	11,043	4,647	4,694	14,771	12,112	11,083
65 Mature horses.....	4,103	5,401	9,882	4,480	4,181	13,303	10,479	10,236
66 Yearling colts.....	463	447	980	145	413	1,171	1,265	727
67 Spring colts.....	70	74	181	22	100	297	368	120
68 Value..... dollars..	402,759	603,493	1,337,455	474,838	409,803	1,494,691	1,353,186	1,251,117
69 Mules:								
70 Total number.....	485	117	224	20	372	238	304	53
71 Mature mules.....	468	88	216	19	358	215	268	48
72 Yearling colts.....	14	29	6	1	12	21	34	3
73 Spring colts.....	3	.....	.....	.....	2	2	2	2
74 Value..... dollars..	45,550	10,535	30,850	4,200	36,671	27,530	38,170	8,070
75 Asses and burros:								
76 Number.....	12	1	2	2	10	7	3	6
77 Value..... dollars..	1,350	10	350	125	975	800	300	760
78 Swine:								
79 Total number.....	6,240	11,329	37,011	4,481	6,688	46,178	50,451	17,490
80 Mature hogs.....	3,666	6,168	18,063	2,344	4,386	22,971	25,977	9,138
81 Spring pigs.....	2,574	5,161	18,948	2,137	2,302	23,207	24,474	8,352
82 Value..... dollars..	39,792	68,730	230,083	42,440	47,388	288,935	331,283	135,091
83 Sheep:								
84 Total number.....	7,797	57,456	183,834	6,061	2,818	156,613	68,208	30,851
85 Rams, ewes, and wethers.....	4,771	49,799	140,074	4,491	1,700	123,774	46,160	20,187
86 Spring lambs.....	3,026	7,657	43,760	1,570	1,118	32,839	22,048	10,664
87 Value..... dollars..	22,071	196,737	626,004	26,181	9,482	532,741	274,627	129,660
88 Goats:								
89 Number.....	.....	108	348	55	35	24	94	49
90 Value..... dollars..	.....	155	924	271	85	83	247	225
POULTRY AND BEES								
91 Number of poultry of all kinds.....	97,665	100,203	224,239	69,208	89,343	293,495	229,423	206,312
92 Value..... dollars..	44,938	54,942	121,145	49,801	42,486	156,197	122,628	143,704
93 Number of colonies of bees.....	1,419	612	866	593	2,711	1,412	1,053	1,552
94 Value..... dollars..	4,130	1,653	2,736	2,169	6,075	4,784	2,686	6,072

¹ Includes deer, valued at \$390.

TABLE 1.—FARMS AND FARM PROPERTY,

[Comparative data for June 1, 1900, in italics.]

	Noble.	Ottawa.	Paulding.	Perry.	Pickaway.	Pike.	Portage.	Preble.
1 Population.....	18,601	22,360	22,730	35,396	26,158	15,723	30,307	23,834
2 <i>Population in 1900.....</i>	<i>19,466</i>	<i>22,215</i>	<i>27,628</i>	<i>31,841</i>	<i>27,016</i>	<i>18,172</i>	<i>29,246</i>	<i>28,713</i>
3 Number of all farms.....	2,713	2,216	2,840	2,414	2,306	2,189	3,591	3,309
4 <i>Number of all farms in 1900.....</i>	<i>2,826</i>	<i>2,367</i>	<i>3,783</i>	<i>2,556</i>	<i>2,429</i>	<i>2,385</i>	<i>3,557</i>	<i>3,056</i>
5 Color and nativity of farmers:								
6 Native white.....	2,673	1,476	2,603	2,285	2,253	2,044	3,287	3,182
7 Foreign-born white.....	45	739	180	122	39	45	300	97
8 Negro and other nonwhite.....	5	1	57	7	14	100	4	30
9 Number of farms, classified by size:								
10 Under 3 acres.....	3	5	3	5	3	1	10	7
11 3 to 9 acres.....	150	145	121	127	148	101	262	382
12 10 to 19 acres.....	188	196	126	164	137	101	270	254
13 20 to 49 acres.....	562	643	555	472	277	424	682	586
14 50 to 99 acres.....	827	819	1,082	786	477	663	1,199	1,040
15 100 to 174 acres.....	715	336	701	615	638	542	862	768
16 175 to 259 acres.....	194	51	189	170	368	203	224	212
17 260 to 499 acres.....	70	18	58	66	221	116	62	60
18 500 to 999 acres.....	4	3	4	5	31	32	9	.....
19 1,000 acres and over.....	.....	.....	1	4	6	6	1	.....
LAND AND FARM AREA								
20 Approximate land area.....acres.	255,360	172,800	264,320	255,360	313,600	273,920	333,440	266,240
21 Land in farms.....acres.	242,325	146,887	255,809	225,685	310,422	242,226	295,552	265,619
22 <i>Land in farms in 1900.....</i>	<i>248,495</i>	<i>158,472</i>	<i>248,803</i>	<i>227,242</i>	<i>309,642</i>	<i>243,016</i>	<i>304,162</i>	<i>264,657</i>
23 Improved land in farms.....acres.	210,997	120,958	220,573	209,573	283,807	136,462	184,945	224,891
24 <i>Improved land in farms in 1900.....</i>	<i>214,515</i>	<i>121,818</i>	<i>189,058</i>	<i>182,188</i>	<i>257,140</i>	<i>144,498</i>	<i>206,145</i>	<i>216,457</i>
25 Woodland in farms.....acres.	21,913	14,026	26,498	32,734	19,096	83,959	48,392	29,455
26 Other unimproved land in farms.....acres.	9,415	11,908	8,538	20,076	7,519	21,805	62,215	11,473
27 Per cent of land area in farms.....	94.9	85.0	96.7	88.4	99.0	88.4	88.6	99.8
28 Per cent of farm land improved.....	87.1	82.3	86.3	76.6	91.4	56.3	62.6	84.6
29 Average acres per farm.....	89.3	66.3	90.0	93.5	134.6	110.7	82.3	80.3
30 Average improved acres per farm.....	77.8	54.6	77.7	71.6	123.1	62.3	51.5	68.0
VALUE OF FARM PROPERTY								
31 All farm property.....dollars.	11,059,322	18,539,027	28,165,844	9,603,387	32,534,721	6,358,950	19,636,745	25,717,238
32 <i>All farm property in 1900.....</i>	<i>8,183,890</i>	<i>12,587,496</i>	<i>11,106,923</i>	<i>7,414,257</i>	<i>19,121,702</i>	<i>4,292,523</i>	<i>15,101,308</i>	<i>14,760,496</i>
33 Per cent increase, 1900-1910.....	35.1	47.3	153.6	29.5	70.1	48.1	30.0	74.2
34 Land.....dollars.	6,874,018	12,789,691	22,333,347	5,763,048	25,485,549	4,207,753	11,403,092	17,403,884
35 <i>Land in 1900.....</i>	<i>5,305,510</i>	<i>8,844,480</i>	<i>7,743,670</i>	<i>4,694,000</i>	<i>14,374,900</i>	<i>2,900,460</i>	<i>9,316,710</i>	<i>10,219,250</i>
36 Buildings.....dollars.	2,208,978	3,894,188	3,043,925	2,098,202	3,558,745	1,016,758	5,374,983	5,065,829
37 <i>Buildings in 1900.....</i>	<i>1,400,170</i>	<i>2,518,240</i>	<i>1,765,490</i>	<i>1,387,610</i>	<i>2,398,380</i>	<i>641,990</i>	<i>3,731,100</i>	<i>2,598,170</i>
38 Implements and machinery.....dollars.	303,377	501,015	711,522	326,229	569,713	218,637	665,899	724,055
39 <i>Implements, etc., in 1900.....</i>	<i>269,030</i>	<i>408,180</i>	<i>544,800</i>	<i>283,600</i>	<i>379,150</i>	<i>163,740</i>	<i>510,670</i>	<i>493,550</i>
40 Domestic animals, poultry, and bees.....dollars.	1,672,949	1,354,133	2,077,050	1,415,808	2,920,714	915,802	2,192,771	2,523,470
41 <i>Domestic animals, etc., in 1900.....</i>	<i>1,219,180</i>	<i>816,656</i>	<i>1,251,998</i>	<i>1,049,027</i>	<i>1,969,272</i>	<i>586,333</i>	<i>1,543,428</i>	<i>1,449,545</i>
42 Per cent of value of all property in—								
43 Land.....	62.2	69.0	79.3	60.0	78.3	66.2	58.1	67.7
44 Buildings.....	20.0	21.0	10.8	21.8	10.9	16.0	27.4	19.7
45 Implements and machinery.....	2.7	2.7	2.5	3.4	1.8	3.4	3.4	2.8
46 Domestic animals, poultry, and bees.....	15.1	7.3	7.4	14.7	9.0	14.4	11.2	9.8
47 Average values:								
48 All property per farm.....dollars.	4,076	8,366	9,918	3,978	14,109	2,905	5,468	7,772
49 Land and buildings per farm.....dollars.	3,348	7,529	8,936	3,257	12,595	2,387	4,672	6,790
50 Land per acre.....dollars.	28.37	87.07	87.37	25.54	82.10	17.37	38.58	65.47
51 <i>Land per acre in 1900.....</i>	<i>21.55</i>	<i>55.81</i>	<i>51.19</i>	<i>20.66</i>	<i>46.42</i>	<i>11.94</i>	<i>30.63</i>	<i>53.63</i>
DOMESTIC ANIMALS (farms and ranges)								
52 Farms reporting domestic animals.....	2,622	2,119	2,753	2,322	2,266	2,001	3,410	3,122
53 Value of domestic animals.....dollars.	1,587,116	1,274,467	1,962,090	1,352,425	2,807,775	861,617	2,105,425	2,413,206
54 Cattle:								
55 Total number.....	19,859	11,177	11,212	16,539	23,264	8,533	27,469	19,001
56 Dairy cows.....	6,780	6,286	6,373	6,187	7,695	3,618	16,791	9,277
57 Other cows.....	2,156	787	621	1,749	1,760	791	1,768	1,983
58 Yearling heifers.....	2,716	1,441	1,613	2,209	2,445	1,065	3,181	2,420
59 Calves.....	2,152	1,693	1,693	1,994	2,374	794	4,351	2,553
60 Yearling steers and bulls.....	2,723	500	548	2,203	2,620	905	858	1,308
61 Other steers and bulls.....	3,332	567	364	2,072	6,370	1,360	520	1,460
62 Value.....dollars.	470,981	310,945	336,129	379,388	710,537	208,863	868,185	546,665
63 Horses:								
64 Total number.....	7,399	6,895	11,270	6,850	14,284	5,276	10,018	11,527
65 Mature horses.....	6,466	6,159	9,834	6,158	12,559	4,731	9,277	10,520
66 Yearling colts.....	817	517	1,070	563	1,201	448	666	721
67 Spring colts.....	116	219	366	129	524	97	75	286
68 Value.....dollars.	728,587	830,230	1,347,571	719,659	1,595,787	512,675	1,020,113	1,225,039
69 Mules:								
70 Total number.....	105	27	252	64	423	329	101	655
71 Mature mules.....	89	26	228	61	408	306	87	617
72 Yearling colts.....	15	1	16	3	9	20	13	36
73 Spring colts.....	1	.....	8	.....	6	3	1	2
74 Value.....dollars.	12,980	3,335	37,464	6,820	52,742	36,322	11,805	90,086
75 Asses and burros:								
76 Number.....	6	2	3	3	1	4	.....	55
77 Value.....dollars.	575	22	1,400	200	1,000	115	.....	3,400
78 Swine:								
79 Total number.....	11,510	16,052	23,546	14,789	61,567	10,928	13,116	77,474
80 Mature hogs.....	5,352	8,421	11,958	7,707	32,976	6,386	7,205	32,490
81 Spring pigs.....	6,158	7,631	11,588	7,082	28,591	4,542	5,911	44,984
82 Value.....dollars.	74,349	88,966	150,133	101,744	379,908	74,084	93,557	491,597
83 Sheep:								
84 Total number.....	74,651	11,106	22,103	41,947	16,121	7,654	24,554	12,236
85 Rams, ewes, and wethers.....	62,929	7,097	13,577	33,489	10,777	5,126	17,027	7,129
86 Spring lambs.....	11,722	4,009	8,526	8,458	5,344	2,528	7,527	5,107
87 Value.....dollars.	299,584	40,888	89,275	144,360	67,608	29,468	102,718	56,389
88 Goats:								
89 Number.....	30	32	42	28	60	33	13	12
90 Value.....dollars.	60	111	118	54	193	90	47	30
POULTRY AND BEES								
91 Number of poultry of all kinds.....	162,184	146,775	215,504	133,696	224,047	118,524	144,550	182,401
92 Value.....dollars.	81,137	76,702	112,287	60,561	111,078	51,827	85,608	108,485
93 Number of colonies of bees.....	1,561	896	1,218	978	753	1,153	628	742
94 Value.....dollars.	4,696	2,964	2,673	2,922	1,861	2,358	1,743	1,779

STATISTICS OF AGRICULTURE.

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BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in italics.]

	Putnam.	Richland.	Ross.	Sandusky.	Scioto.	Seneca.	Shelby.	Stark.	Summit.	Trumbull.	Tuscarawas.	Union.
1	29,972	47,667	40,069	35,171	48,463	42,421	24,663	122,987	108,253	52,766	57,035	21,871
2	<i>38,586</i>	<i>44,889</i>	<i>40,940</i>	<i>34,811</i>	<i>40,981</i>	<i>41,163</i>	<i>24,825</i>	<i>94,747</i>	<i>71,715</i>	<i>46,591</i>	<i>53,751</i>	<i>22,342</i>
3	3,469	3,262	3,218	2,945	2,896	3,344	2,718	4,853	2,959	4,456	3,634	2,773
4	<i>5,698</i>	<i>5,419</i>	<i>3,301</i>	<i>2,842</i>	<i>2,655</i>	<i>3,553</i>	<i>2,866</i>	<i>4,495</i>	<i>2,871</i>	<i>4,346</i>	<i>3,581</i>	<i>2,937</i>
5	3,258	3,123	3,031	2,628	2,762	3,195	2,575	4,386	2,568	4,044	3,325	2,698
6	209	139	77	315	123	147	125	463	390	408	309	64
7	2	110	2	2	11	2	18	4	1	4	1	11
8	12	9	8	8	2	4	19	15	12	6	6	155
9	176	220	241	210	239	190	134	615	278	363	325	140
10	130	170	200	199	249	133	107	520	320	389	245	584
11	611	439	506	477	617	354	353	904	552	834	584	967
12	1,447	1,109	757	1,056	785	1,129	1,112	1,550	909	1,434	1,018	714
13	887	1,037	771	821	649	1,195	844	1,047	670	1,029	1,048	251
14	168	226	397	131	205	131	148	164	163	290	310	104
15	37	51	268	41	116	56	20	29	47	104	95	8
16	1	1	62	1	31	4	5	5	4	10	3	8
17	1	8	1	3	1	1	1	1	1	1	1	1
18	308,480	321,920	427,520	264,320	398,720	352,000	264,320	362,240	261,120	405,120	355,200	285,440
19	<i>292,502</i>	<i>303,085</i>	<i>404,171</i>	<i>247,142</i>	<i>276,273</i>	<i>336,645</i>	<i>247,695</i>	<i>335,382</i>	<i>227,405</i>	<i>365,859</i>	<i>332,530</i>	<i>209,064</i>
20	<i>290,553</i>	<i>304,243</i>	<i>405,198</i>	<i>247,243</i>	<i>285,960</i>	<i>327,485</i>	<i>251,793</i>	<i>342,290</i>	<i>238,816</i>	<i>377,552</i>	<i>359,730</i>	<i>276,968</i>
21	252,866	239,328	291,913	206,198	138,295	280,502	209,238	275,214	163,191	253,073	206,918	236,904
22	<i>234,066</i>	<i>239,351</i>	<i>307,181</i>	<i>198,932</i>	<i>184,795</i>	<i>254,534</i>	<i>203,356</i>	<i>281,064</i>	<i>162,020</i>	<i>240,147</i>	<i>162,020</i>	<i>227,534</i>
23	34,783	50,412	78,577	24,889	117,334	42,983	31,622	30,344	31,952	58,157	45,931	28,735
24	4,853	16,345	33,681	16,055	20,644	13,160	6,835	29,824	32,262	54,629	19,687	3,427
25	94.8	94.1	94.5	93.5	69.3	95.6	93.7	92.6	87.1	90.3	93.6	94.3
26	86.4	78.0	72.2	83.4	50.1	83.3	84.5	82.1	71.8	69.2	80.3	88.0
27	84.3	92.9	125.6	83.9	95.4	100.7	91.1	69.1	76.9	82.1	91.5	97.0
28	72.9	72.4	90.7	70.0	47.8	83.9	77.0	56.7	55.2	56.8	73.4	85.4
29	34,655,350	23,049,593	25,689,205	28,104,341	8,286,625	33,158,428	23,235,619	33,265,813	21,419,718	23,075,086	19,043,486	24,305,735
30	<i>16,751,867</i>	<i>14,281,449</i>	<i>16,424,684</i>	<i>19,249,603</i>	<i>5,619,556</i>	<i>20,651,990</i>	<i>11,598,643</i>	<i>22,506,723</i>	<i>15,531,643</i>	<i>16,523,852</i>	<i>14,324,419</i>	<i>13,562,042</i>
31	106.9	61.6	66.5	46.0	47.5	60.5	100.3	47.8	37.9	39.7	32.9	79.9
32	25,588,855	14,744,411	19,301,509	19,164,362	5,377,887	22,822,297	16,877,407	20,745,476	13,552,853	13,521,961	11,619,822	16,920,994
33	<i>11,986,090</i>	<i>9,476,670</i>	<i>11,541,300</i>	<i>13,295,920</i>	<i>3,796,840</i>	<i>13,902,850</i>	<i>8,181,670</i>	<i>14,619,270</i>	<i>10,361,140</i>	<i>9,365,700</i>	<i>9,358,350</i>	<i>9,518,240</i>
34	5,148,650	4,893,680	3,410,366	5,765,527	1,698,333	6,128,857	3,561,395	5,717,330	5,331,108	6,311,915	4,579,859	3,742,050
35	<i>2,600,900</i>	<i>2,649,690</i>	<i>1,925,010</i>	<i>3,926,760</i>	<i>935,680</i>	<i>4,068,320</i>	<i>1,903,110</i>	<i>5,323,100</i>	<i>3,364,820</i>	<i>4,064,820</i>	<i>2,954,500</i>	<i>1,947,920</i>
36	841,550	751,195	553,243	821,709	264,647	916,275	604,546	884,187	584,457	649,505	587,232	543,034
37	<i>543,370</i>	<i>472,770</i>	<i>379,620</i>	<i>556,140</i>	<i>280,120</i>	<i>676,160</i>	<i>324,870</i>	<i>659,310</i>	<i>403,200</i>	<i>625,470</i>	<i>428,290</i>	<i>557,860</i>
38	3,076,295	2,660,307	2,424,087	2,352,743	945,758	3,290,999	2,192,271	2,918,820	1,951,300	2,698,305	2,256,573	3,189,657
39	<i>1,621,607</i>	<i>1,663,419</i>	<i>1,578,754</i>	<i>1,470,783</i>	<i>666,916</i>	<i>2,014,860</i>	<i>1,123,993</i>	<i>1,906,043</i>	<i>1,402,483</i>	<i>2,067,842</i>	<i>1,533,509</i>	<i>1,733,699</i>
40	73.8	64.0	75.1	68.2	64.9	68.8	72.6	62.4	63.3	58.6	61.0	69.4
41	14.9	21.2	13.3	20.5	20.5	18.5	15.3	26.2	24.9	27.4	24.0	15.3
42	2.4	3.3	2.2	2.9	3.2	2.8	2.6	2.7	2.7	2.8	3.1	2.2
43	8.9	11.5	9.4	8.4	11.4	9.9	9.4	8.8	9.1	11.3	11.8	13.1
44	9,990	7,066	7,983	9,543	2,861	9,916	8,549	6,855	7,239	5,178	5,240	8,798
45	8,861	6,020	7,058	8,465	2,443	8,658	7,520	6,071	6,382	4,451	4,458	7,452
46	87.48	48.65	47.76	77.54	19.47	67.79	68.14	61.83	59.60	36.90	34.94	62.80
47	<i>41.25</i>	<i>31.14</i>	<i>23.43</i>	<i>53.73</i>	<i>13.37</i>	<i>42.46</i>	<i>52.49</i>	<i>42.71</i>	<i>43.39</i>	<i>26.13</i>	<i>27.54</i>	<i>34.49</i>
48	3,359	3,168	3,015	2,851	2,604	3,280	2,666	4,605	2,831	4,137	3,441	2,726
49	<i>2,896,301</i>	<i>2,537,883</i>	<i>2,317,535</i>	<i>2,238,422</i>	<i>892,316</i>	<i>3,153,101</i>	<i>2,081,540</i>	<i>2,785,092</i>	<i>1,869,420</i>	<i>2,476,268</i>	<i>2,164,127</i>	<i>3,055,216</i>
50	24,159	23,513	20,091	18,237	11,954	23,971	20,659	34,119	23,991	38,747	28,418	21,411
51	11,133	11,958	7,119	9,437	5,764	12,504	10,134	19,507	14,673	22,413	13,636	10,415
52	1,827	1,979	1,375	1,717	725	2,079	1,477	2,286	2,494	2,494	2,067	1,326
53	3,337	3,072	2,158	2,214	1,602	2,959	3,003	4,152	2,688	4,780	3,508	2,861
54	3,831	3,368	1,931	2,610	1,435	3,336	3,304	5,577	3,535	6,731	5,499	2,972
55	2,158	1,714	2,303	2,182	901	1,699	1,668	1,499	856	1,194	2,316	1,727
56	1,843	1,422	5,205	977	1,587	1,394	1,073	1,148	469	1,135	1,392	2,110
57	<i>634,335</i>	<i>650,863</i>	<i>560,854</i>	<i>489,931</i>	<i>268,816</i>	<i>666,054</i>	<i>488,838</i>	<i>895,341</i>	<i>764,407</i>	<i>1,150,222</i>	<i>668,348</i>	<i>663,981</i>
58	14,281	10,877	12,900	10,816	5,319	14,867	11,412	14,485	8,624	11,875	10,228	13,188
59	12,184	9,986	11,579	9,616	4,825	13,214	9,939	13,352	8,140	10,990	9,196	11,324
60	1,418	724	999	792	387	1,200	1,048	863	377	771	867	1,372
61	679	167	322	408	97	453	425	270	107	114	165	492
62	<i>1,747,697</i>	<i>1,306,525</i>	<i>1,264,809</i>	<i>1,343,179</i>	<i>493,848</i>	<i>1,834,688</i>	<i>1,289,386</i>	<i>1,570,525</i>	<i>952,684</i>	<i>1,114,793</i>	<i>1,159,042</i>	<i>1,562,530</i>
63	135	425	290	105	570	183	197	208	95	154	116	180
64	128	407	268	101	532	176	183	190	92	139	105	165
65	4	15	13	4	33	6	12	15	3	15	10	11
66	3	3	9	5	5	1	2	3	3	1	1	4
67	18,910	67,878	33,105	13,315	62,209	26,800	23,680	24,210	12,590	19,604	14,115	23,985
68	1	5	12	5	4	5	5	5	2	25	5	5
69	25	255	1,885	540	605	500	605	500	60	2,255	1,360	370
70	68,760	35,929	53,279	41,656	8,751	54,467	41,247	31,815	15,271	13,634	22,819	80,125
71	31,497	19,330	28,481	23,748	5,240	28,244	20,289	17,948	9,159	7,050	12,155	38,528
72	37,263	16,599	24,798	17,908	3,511	26,223	20,958	13,867	6,112	6,584	10,664	41,597
73	<i>376,320</i>	<i>239,453</i>	<i>351,279</i>	<i>275,102</i>	<i>59,515</i>	<i>341,533</i>	<i>225,906</i>	<i>209,397</i>	<i>106,707</i>	<i>99,135</i>	<i>150,532</i>	<i>466,974</i>
74	29,466	75,316	26,381	28,835	2,094	70,847	12,007	25,170	8,530	22,366	46,932	32,975
75	13,002	49,885	16,507	19,654	1,298	47,410	7,427	17,272	5,505	15,856	37,798	56,544
76	11,464	25,481	9,874	796	23,437	4,580	7,898	3,025	6,510	9,134	26,431	26,431
77	<i>118,699</i>	<i>272,882</i>	<i>105,267</i>	<i>116,806</i>	<i>7,355</i>	<i>288,283</i>	<i>53,188</i>	<i>85,542</i>	<i>32,911</i>	<i>89,917</i>	<i>170,619</i>	<i>337,917</i>
78	77	57	193	32	11	76	13	32	16	102	32	11
79	315	77	336	39	33	138	42	77	61	342	111	59
80	335,356	198,445	200,033	186,554	109,389	222,341	221,215	247,995	129,655	188,556	179,043	252,509
81	<i>176,712</i>	<i>120,507</i>	<i>103,112</i>	<i>111,383</i>	<i>50,436</i>	<i>128,929</i>	<i>108,949</i>	<i>131,959</i>	<i>79,592</i>	<i>119,247</i>	<i>90,138</i>	<i>131,910</i>
82	1,304	771	1,561	962	1,501	1,447	728	802	724	987	732	948
83	3,282	1,917	3,440	2,938	3,006	3,969	1,782	1,769	2,288	2,790	2,308	2,531

TABLE 1.—FARMS AND FARM PROPERTY, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in italics.]

	Van Wert.	Vinton.	Warren.	Washington.	Wayne.	Williams.	Wood.	Wyandot.
1 Population.....	29,119	13,096	24,497	45,422	38,058	25,198	46,330	20,760
2 <i>Population in 1900.....</i>	<i>30,394</i>	<i>15,330</i>	<i>25,584</i>	<i>48,245</i>	<i>37,870</i>	<i>24,063</i>	<i>51,666</i>	<i>21,125</i>
3 Number of all farms.....	2,921	1,823	2,687	4,187	3,955	2,913	4,357	2,321
4 <i>Number of all farms in 1900.....</i>	<i>3,367</i>	<i>2,039</i>	<i>2,514</i>	<i>4,478</i>	<i>3,943</i>	<i>2,833</i>	<i>4,781</i>	<i>2,389</i>
5 Color and nativity of farmers:								
6 Native white.....	2,799	1,806	2,533	3,907	3,673	2,813	3,865	2,220
7 Foreign-born white.....	100	9	113	142	282	100	491	100
8 Negro and other nonwhite.....	22	8	36	138	.....	.....	1	1
9 Number of farms, classified by size:								
10 Under 3 acres.....	3	.....	3	2	10	3	7	3
11 3 to 9 acres.....	113	78	225	210	283	90	177	85
12 10 to 49 acres.....	118	86	177	229	250	114	202	103
13 50 to 99 acres.....	527	425	363	835	622	449	844	352
14 100 to 174 acres.....	1,251	505	790	1,461	1,397	1,231	1,832	774
15 175 to 259 acres.....	749	416	842	1,075	1,163	853	1,065	720
16 260 to 499 acres.....	130	174	212	276	195	146	176	183
17 500 to 999 acres.....	23	108	68	93	34	27	48	93
18 1,000 acres and over.....	1	7	7	5	1	.....	6	6
19 LAND AND FARM AREA								
20 Approximate land area..... acres	259,840	263,680	264,320	403,200	356,480	263,040	391,680	259,840
21 Land in farms..... acres	250,482	216,347	249,783	368,307	336,807	260,255	360,008	242,102
22 <i>Land in farms in 1900.....</i>	<i>256,014</i>	<i>236,474</i>	<i>250,003</i>	<i>374,694</i>	<i>338,140</i>	<i>263,228</i>	<i>367,627</i>	<i>248,222</i>
23 Improved land in farms..... acres	219,045	138,568	205,813	257,759	269,894	208,341	308,497	208,790
24 <i>Improved land in farms in 1900.....</i>	<i>211,659</i>	<i>145,659</i>	<i>210,557</i>	<i>280,691</i>	<i>272,880</i>	<i>196,074</i>	<i>296,928</i>	<i>208,246</i>
25 Woodland in farms..... acres	30,106	60,342	29,734	68,304	43,857	35,171	37,916	22,605
26 Other unimproved land in farms..... acres	1,331	17,437	14,236	42,244	23,056	16,743	13,595	10,707
27 Per cent of land area in farms.....	96.4	82.0	94.5	91.3	94.5	98.9	91.9	93.2
28 Per cent of farm land improved.....	87.4	64.0	82.4	70.0	80.1	80.1	85.7	86.2
29 Average acres per farm.....	85.8	118.7	93.0	88.0	85.2	89.3	82.6	104.3
30 Average improved acres per farm.....	75.0	76.0	76.6	61.6	68.2	71.5	70.8	90.0
31 VALUE OF FARM PROPERTY								
32 All farm property..... dollars	28,091,993	4,228,811	19,840,067	14,778,493	31,015,553	22,118,951	41,395,393	23,007,554
33 <i>All farm property in 1900.....</i>	<i>18,993,011</i>	<i>3,744,128</i>	<i>15,510,247</i>	<i>11,817,124</i>	<i>21,076,446</i>	<i>12,692,598</i>	<i>26,207,700</i>	<i>15,104,238</i>
34 Per cent increase, 1900-1910.....	100.8	12.9	49.1	25.1	47.2	74.3	58.0	75.6
35 Land..... dollars	21,142,329	2,643,656	12,549,464	8,994,502	19,318,040	14,580,520	30,838,162	16,204,617
36 <i>Land in 1900.....</i>	<i>9,831,640</i>	<i>2,333,050</i>	<i>9,002,870</i>	<i>7,637,600</i>	<i>13,526,030</i>	<i>8,408,660</i>	<i>18,970,210</i>	<i>9,318,210</i>
37 Buildings..... dollars	3,976,715	764,264	4,798,830	3,412,783	7,337,031	4,312,562	6,215,665	3,673,205
38 <i>Buildings in 1900.....</i>	<i>2,194,540</i>	<i>566,220</i>	<i>3,681,570</i>	<i>2,271,680</i>	<i>4,775,610</i>	<i>2,427,560</i>	<i>4,389,810</i>	<i>2,040,480</i>
39 Implements and machinery..... dollars	640,951	124,759	517,784	517,354	969,050	678,341	1,142,018	563,147
40 <i>Implements, etc., in 1900.....</i>	<i>499,240</i>	<i>230,010</i>	<i>287,810</i>	<i>468,370</i>	<i>754,300</i>	<i>430,180</i>	<i>724,320</i>	<i>334,580</i>
41 Domestic animals, poultry, and bees..... dollars	2,331,998	696,132	1,973,980	1,853,854	3,391,428	2,547,528	3,199,548	2,566,585
42 <i>Domestic animals, etc., in 1900.....</i>	<i>1,467,691</i>	<i>624,248</i>	<i>1,337,937</i>	<i>1,444,674</i>	<i>2,020,606</i>	<i>1,426,218</i>	<i>2,125,460</i>	<i>1,410,956</i>
43 Per cent of value of all property in—								
44 Land.....	75.3	62.5	63.3	60.9	62.3	65.9	74.5	70.4
45 Buildings.....	14.2	18.1	24.2	23.1	23.7	19.5	15.0	16.0
46 Implements and machinery.....	2.3	3.0	2.6	3.5	3.1	3.1	2.8	2.4
47 Domestic animals, poultry, and bees.....	8.3	16.5	9.9	12.5	10.9	11.5	7.7	11.2
48 Average values:								
49 All property per farm..... dollars	9,617	2,320	7,384	3,530	7,842	7,593	9,501	9,913
50 Land and buildings per farm..... dollars	8,599	1,869	6,456	2,963	6,740	6,486	8,504	8,564
51 Land per acre..... dollars	84.41	12.22	50.24	24.42	57.36	56.02	85.66	66.93
52 <i>Land per acre in 1900.....</i>	<i>53.40</i>	<i>10.26</i>	<i>36.01</i>	<i>20.38</i>	<i>40.00</i>	<i>33.21</i>	<i>51.62</i>	<i>37.54</i>
53 DOMESTIC ANIMALS (farms and ranges)								
54 Farms reporting domestic animals.....	2,876	1,688	2,553	4,000	3,848	2,830	4,263	2,263
55 Value of domestic animals..... dollars	2,201,200	660,156	1,884,824	1,740,319	3,242,368	2,386,569	3,027,716	2,465,225
56 Cattle:								
57 Total number.....	15,870	9,567	17,315	24,130	31,177	21,940	23,883	15,512
58 Dairy cows.....	8,231	3,825	9,495	10,730	16,088	11,228	12,328	7,069
59 Other cows.....	1,387	1,051	1,807	2,113	2,188	1,416	1,620	1,256
60 Yearling heifers.....	2,166	1,370	2,144	3,282	3,992	3,009	2,972	1,910
61 Calves.....	2,439	909	2,130	3,343	4,938	3,225	3,318	2,257
62 Yearling steers and bulls.....	1,125	1,311	903	2,703	2,018	1,832	1,348	1,412
63 Other steers and bulls.....	592	1,101	836	1,959	1,953	1,233	2,297	1,608
64 Value..... dollars	420,373	198,234	517,416	520,572	865,181	650,554	739,169	455,732
65 Horses:								
66 Total number.....	12,688	3,494	10,021	9,558	14,839	10,597	15,525	9,965
67 Mature horses.....	10,623	3,188	9,122	8,714	13,511	9,401	14,078	8,778
68 Yearling colts.....	1,445	279	691	747	1,040	893	1,118	825
69 Spring colts.....	620	27	208	97	288	303	329	362
70 Value..... dollars	1,433,567	311,482	907,306	920,676	1,898,320	1,243,713	1,806,370	1,168,835
71 Mules:								
72 Total number.....	172	248	534	177	402	164	207	177
73 Mature mules.....	162	220	481	171	393	137	198	167
74 Yearling colts.....	7	26	39	4	7	22	7	10
75 Spring colts.....	3	2	14	2	2	5	2	.....
76 Value..... dollars	21,915	22,420	54,761	19,860	65,230	21,815	30,098	27,660
77 Asses and burros:								
78 Number.....	15	5	1	28	9	7	.....	.....
79 Value..... dollars	660	420	200	2,240	1,340	1,625	.....	.....
80 Swine:								
81 Total number.....	41,319	5,644	55,895	12,829	38,981	42,372	56,190	56,310
82 Mature hogs.....	20,165	3,390	24,656	6,711	20,280	18,024	30,917	30,276
83 Spring pigs.....	21,154	2,254	31,239	6,118	18,701	24,348	25,273	26,034
84 Value..... dollars	219,075	36,983	339,957	91,215	268,133	252,742	351,160	376,062
85 Sheep:								
86 Total number.....	25,105	27,623	14,929	57,357	36,236	53,245	24,272	116,481
87 Rams, ewes, and wethers.....	15,074	23,329	9,063	46,014	23,208	31,806	16,621	79,296
88 Spring lambs.....	10,031	3,794	5,861	11,343	13,028	21,439	7,651	37,185
89 Value..... dollars	106,109	90,259	64,867	186,718	143,151	216,300	99,162	436,926
90 Goats:								
91 Number.....	92	41	27	195	26	64	43	3
92 Value..... dollars	161	118	97	1,078	113	105	132	10
93 POULTRY AND BEES								
94 Number of poultry of all kinds.....	264,865	70,601	155,211	208,456	262,373	262,640	311,900	194,271
95 Value..... dollars	128,364	34,519	87,483	107,224	145,702	158,351	168,646	99,096
96 Number of colonies of bees.....	901	619	638	2,408	1,390	939	1,157	829
97 Value..... dollars	2,434	1,457	1,682	6,311	3,358	2,608	3,186	2,264

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR AND NATIVITY OF FARMERS; AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910.

[Comparative data for June 1, 1900, in italics.]

	THE STATE.	Adams.	Allen.	Ashland.	Ashtabula.	Athens.
FARMS OPERATED BY OWNERS						
1 Number of farms.....	192,104	2,377	2,040	1,705	4,030	2,189
2 <i>Number of farms in 1900.....</i>	<i>197,361</i>	<i>2,434</i>	<i>2,089</i>	<i>1,809</i>	<i>4,064</i>	<i>2,330</i>
3 Per cent of all farms.....	70.6	65.4	69.6	63.9	81.8	80.3
4 <i>Per cent of all farms in 1900.....</i>	<i>71.3</i>	<i>68.9</i>	<i>73.1</i>	<i>68.8</i>	<i>80.7</i>	<i>77.6</i>
5 Land in farms..... acres.....	16,031,682	231,281	158,519	149,019	310,408	216,165
6 <i>Improved land in farms.....</i> acres.....	<i>12,724,672</i>	<i>151,861</i>	<i>134,088</i>	<i>116,755</i>	<i>206,705</i>	<i>162,207</i>
7 Value of land and buildings..... dollars.....	1,047,849,280	5,711,113	15,103,679	9,167,960	14,919,236	6,618,086
Degree of ownership:						
8 Farms consisting of owned land only.....	162,982	2,177	1,601	1,387	3,638	1,925
9 Farms consisting of owned and hired land.....	29,122	200	446	318	392	264
Color and nativity of owners:						
10 Native white.....	176,502	2,347	1,937	1,648	3,628	2,095
11 Foreign-born white.....	14,289	22	107	57	398	75
12 Negro and other nonwhite.....	1,313	8	2	.....	4	19
FARMS OPERATED BY TENANTS						
13 Number of farms.....	77,188	1,237	871	926	846	516
14 <i>Number of farms in 1900.....</i>	<i>75,331</i>	<i>1,037</i>	<i>730</i>	<i>809</i>	<i>931</i>	<i>634</i>
15 Per cent of all farms.....	28.4	34.0	29.6	34.7	17.2	18.9
16 <i>Per cent of all farms in 1900.....</i>	<i>27.4</i>	<i>30.2</i>	<i>25.5</i>	<i>30.7</i>	<i>18.5</i>	<i>21.1</i>
17 Land in farms..... acres.....	7,569,390	92,787	78,842	105,169	81,843	54,777
18 <i>Improved land in farms.....</i> acres.....	<i>6,153,855</i>	<i>66,136</i>	<i>66,585</i>	<i>82,948</i>	<i>51,368</i>	<i>35,674</i>
19 Value of land and buildings..... dollars.....	558,367,426	2,588,840	7,322,000	6,444,341	3,640,706	1,514,027
Form of tenancy:						
20 Share tenants.....	49,972	1,148	509	721	379	215
21 Share-cash tenants.....	3,462	12	33	24	22	16
22 Cash tenants.....	21,068	50	275	112	437	267
23 Tenure not specified.....	2,686	27	54	69	8	18
Color and nativity of tenants:						
24 Native white.....	73,598	1,235	850	905	762	491
25 Foreign-born white.....	2,981	2	20	21	82	10
26 Negro and other nonwhite.....	609	2	1	.....	2	15
FARMS OPERATED BY MANAGERS						
27 Number of farms.....	2,753	20	22	36	50	21
28 <i>Number of farms in 1900.....</i>	<i>3,427</i>	<i>52</i>	<i>59</i>	<i>78</i>	<i>43</i>	<i>40</i>
29 Land in farms..... acres.....	504,636	3,341	3,111	4,337	6,936	15,981
30 <i>Improved land in farms.....</i> acres.....	<i>349,442</i>	<i>1,711</i>	<i>2,549</i>	<i>3,407</i>	<i>3,612</i>	<i>3,792</i>
31 Value of land and buildings..... dollars.....	47,935,700	102,400	329,680	361,240	351,220	318,750
MORTGAGE DEBT REPORTS						
For all farms operated by owners:						
32 Number free from mortgage debt.....	135,616	1,771	1,378	1,305	2,560	1,745
33 Number with mortgage debt.....	54,997	594	655	389	1,454	437
34 Number with no mortgage report.....	1,491	12	13	11	16	7
For farms consisting of owned land only:						
35 Number reporting debt and amount.....	42,785	511	466	287	1,265	376
36 Value of their land and buildings..... dollars.....	220,749,834	1,156,560	3,160,770	1,455,996	4,361,662	911,479
37 Amount of mortgage debt..... dollars.....	63,788,397	328,800	829,052	441,365	1,882,762	253,665
38 Per cent of value of land and buildings.....	28.9	28.4	26.2	30.3	31.7	27.8

1 No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909.

LIVE STOCK PRODUCTS							
Dairy Products							
1 Dairy cows on farms reporting dairy products.....	number..	854,463	6,197	9,577	8,548	23,730	6,436
2 Dairy cows on farms reporting milk produced.....	number..	769,907	6,174	8,868	8,319	21,657	6,335
3 Milk—Produced.....	gallons.....	307,590,755	2,102,312	3,213,822	3,345,062	10,220,607	2,192,061
4 Sold.....	gallons.....	99,430,948	30,835	423,676	231,470	7,810,890	222,890
5 Cream sold.....	gallons.....	2,191,997	1,555	21,363	32,471	28,147	6,945
6 Butter fat sold.....	pounds.....	7,563,527	2,019	59,384	107,250	53,022	30,279
7 Butter—Produced.....	pounds.....	63,569,132	721,098	811,875	738,052	888,584	602,443
8 Sold.....	pounds.....	39,252,326	292,060	509,354	450,850	550,273	309,224
9 Cheese—Produced.....	pounds.....	613,233	.....	8,270	6,870	1,775	.....
10 Sold.....	pounds.....	518,650	.....	3,970	5,630	1,291	.....
11 Value of dairy products, excluding home use of milk and cream.....	dollars.....	30,869,408	149,206	279,950	238,947	1,081,309	192,622
12 Receipts from sale of dairy products.....	dollars.....	25,574,635	65,190	211,635	180,192	1,000,747	127,965
Poultry Products							
13 Poultry—Raised.....	number..	22,112,259	245,535	290,085	177,674	216,559	162,802
14 Sold.....	number..	9,123,564	73,435	125,083	72,117	106,440	60,483
15 Eggs—Produced.....	dozens.....	96,259,005	1,363,412	1,273,327	1,183,648	1,309,318	913,219
16 Sold.....	dozens.....	69,575,637	1,106,258	921,704	920,192	921,788	697,237
17 Value of poultry and eggs produced.....	dollars.....	29,220,018	358,295	373,331	321,376	386,143	252,768
18 Receipts from sale of poultry and eggs.....	dollars.....	18,362,951	245,089	230,298	221,164	250,030	169,119
Honey and Wax							
19 Honey produced.....	pounds..	1,001,179	35,315	4,185	4,685	102,242	24,407
20 Wax produced.....	pounds..	7,454	343	82	58	410	116
21 Value of honey and wax produced.....	dollars..	133,891	4,243	585	580	10,762	3,457
Wool, Mohair, and Goat Hair							
22 Wool, fleeces shorn.....	number..	2,804,655	8,142	22,740	43,041	7,858	63,308
23 Mohair and goat hair, fleeces shorn.....	number..	1,024	20	26	.....	82	79
24 Value of wool and mohair produced.....	dollars..	6,149,490	16,113	48,110	98,101	16,626	135,757
DOMESTIC ANIMALS SOLD OR SLAUGHTERED							
25 Calves—Sold or slaughtered.....	number..	393,226	1,377	4,353	3,218	16,615	1,617
26 Other cattle—Sold or slaughtered.....	number..	612,460	6,401	7,097	6,167	6,093	6,336
27 Horses, mules, and asses and burros—Sold.....	number..	108,684	1,208	2,445	1,168	1,006	753
28 Swine—Sold or slaughtered.....	number..	3,085,702	21,228	57,535	28,210	13,917	10,265
29 Sheep and goats—Sold or slaughtered.....	number..	1,308,054	4,865	15,432	20,623	3,994	17,519
30 Receipts from sale of animals.....	dollars..	74,632,866	498,158	1,402,878	735,754	467,272	411,787
31 Value of animals slaughtered.....	dollars..	14,964,130	161,945	187,005	146,473	139,553	102,029

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR

[Comparative data for June 1, 1900, in italics.]

	Auglaize.	Belmont.	Brown.	Butler.	Carroll.	Champaign.	Clark.	Clermont.	
FARMS OPERATED BY OWNERS									
1	Number of farms.....	1,779	2,328	2,731	1,492	1,787	1,432	1,490	2,797
2	Number of farms in 1900.....	<i>2,012</i>	<i>2,725</i>	<i>2,818</i>	<i>1,525</i>	<i>1,794</i>	<i>1,549</i>	<i>1,368</i>	<i>2,693</i>
3	Per cent of all farms.....	65.0	74.8	66.4	57.3	82.4	58.2	58.8	72.2
4	Per cent of all farms in 1900.....	71.6	71.0	71.1	56.0	78.0	61.0	68.7	65.6
5	Land in farms.....acres.....	150,741	228,351	208,737	138,500	194,044	125,136	114,259	186,937
6	Improved land in farms.....acres.....	124,542	184,022	179,681	111,997	158,755	108,482	98,747	155,860
7	Value of land and buildings.....dollars.....	12,776,487	12,131,212	8,574,366	10,277,670	7,249,556	10,232,119	10,914,169	8,841,917
8	Degree of ownership:								
9	Farms consisting of owned land only.....	1,393	2,557	2,240	1,220	1,530	1,135	1,193	2,358
10	Farms consisting of owned and hired land.....	386	271	491	272	257	297	297	439
11	Color and nativity of owners:								
12	Native white.....	1,641	2,643	2,586	1,337	1,741	1,379	1,404	2,522
13	Foreign-born white.....	137	167	81	151	45	40	57	238
14	Negro and other nonwhite.....	1	18	64	4	1	13	29	37
FARMS OPERATED BY TENANTS									
15	Number of farms.....	931	924	1,351	1,068	369	999	968	1,042
16	Number of farms in 1900.....	<i>779</i>	<i>1,063</i>	<i>1,111</i>	<i>1,157</i>	<i>446</i>	<i>958</i>	<i>923</i>	<i>1,390</i>
17	Per cent of all farms.....	34.0	24.4	32.9	41.0	17.0	40.6	38.2	26.9
18	Per cent of all farms in 1900.....	27.7	27.7	28.0	42.5	19.4	37.7	39.6	33.8
19	Land in farms.....acres.....	83,515	86,449	91,244	132,855	43,717	123,617	115,036	83,411
20	Improved land in farms.....acres.....	69,780	67,700	79,448	108,902	34,815	106,349	99,823	69,155
21	Value of land and buildings.....dollars.....	6,888,869	4,218,345	3,874,584	10,003,670	1,507,705	9,937,456	9,685,745	3,532,760
22	Form of tenancy:								
23	Share tenants.....	611	481	1,267	782	142	818	531	831
24	Share-cash tenants.....	33	32	23	79	16	33	90	23
25	Cash tenants.....	262	329	51	197	199	148	304	171
26	Tenure not specified.....	25	82	10	10	12	.....	43	17
27	Color and nativity of tenants:								
28	Native white.....	899	899	1,277	1,008	357	980	934	902
29	Foreign-born white.....	32	16	11	50	9	9	16	23
30	Negro and other nonwhite.....	.....	9	63	10	3	10	18	27
FARMS OPERATED BY MANAGERS									
31	Number of farms.....	26	28	29	46	14	31	74	37
32	Number of farms in 1900.....	<i>19</i>	<i>51</i>	<i>34</i>	<i>42</i>	<i>61</i>	<i>35</i>	<i>39</i>	<i>25</i>
33	Land in farms.....acres.....	3,253	3,928	3,466	7,508	2,127	7,487	12,336	3,862
34	Improved land in farms.....acres.....	2,673	2,791	2,908	5,933	1,611	5,983	9,783	3,049
35	Value of land and buildings.....dollars.....	274,800	277,620	150,300	733,266	98,400	729,750	1,520,330	261,048
MORTGAGE DEBT REPORTS¹									
36	For all farms operated by owners:								
37	Number free from mortgage debt.....	1,328	2,111	2,150	1,010	1,367	979	881	2,005
38	Number with mortgage debt.....	436	697	572	479	410	439	582	778
39	Number with no mortgage report.....	15	20	9	3	10	14	27	14
40	For farms consisting of owned land only:								
41	Number reporting debt and amount.....	301	603	410	350	318	324	418	608
42	Value of their land and buildings.....dollars.....	1,883,432	2,157,673	1,132,750	2,155,110	1,158,615	2,185,013	2,513,134	1,845,891
43	Amount of mortgage debt.....dollars.....	583,280	672,937	365,221	697,180	348,883	686,869	796,349	572,078
44	Per cent of value of land and buildings.....	31.1	31.2	32.2	32.4	30.1	31.4	31.7	31.0

¹ No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS									
Dairy Products									
1	Dairy cows on farms reporting dairy products.....number.....	8,623	12,839	8,431	10,386	7,250	7,532	9,944	10,759
2	Dairy cows on farms reporting milk produced.....number.....	7,313	11,688	8,334	10,325	5,841	5,790	9,352	9,888
3	Milk—Produced.....gallons.....	2,460,101	4,445,563	2,847,679	4,338,069	2,200,029	1,940,254	3,449,001	3,802,236
4	Sold.....gallons.....	236,084	1,069,839	128,387	1,366,774	97,072	796,248	1,075,656	1,451,241
5	Cream sold.....gallons.....	49,219	43,754	495	25,457	4,151	26,412	32,041	5,639
6	Butter fat sold.....pounds.....	202,688	34,569	.....	21,478	4,720	35,733	97,958	6,092
7	Butter—Produced.....pounds.....	551,220	1,132,703	968,807	802,166	813,403	509,602	676,863	898,279
8	Sold.....pounds.....	341,849	716,781	650,246	558,908	597,170	327,399	480,378	610,753
9	Cheese—Produced.....pounds.....	2,575	14,600	.....	14,055	.....	.....	285	2,350
10	Sold.....pounds.....	2,300	13,360	.....	12,112	.....	.....	280	2,200
11	Value of dairy products, excluding home use of milk and cream.....dollars.....	240,518	489,708	213,227	397,545	191,910	226,299	369,901	384,630
12	Receipts from sale of dairy products.....dollars.....	192,967	396,314	149,524	338,871	147,855	187,723	323,346	324,539
Poultry Products									
13	Poultry—Raised.....number.....	318,875	280,725	378,935	315,853	143,112	268,737	289,109	332,750
14	Sold.....number.....	111,220	113,884	149,807	110,118	73,362	113,047	113,607	130,226
15	Eggs—Produced.....dozens.....	1,332,117	1,080,467	1,581,992	965,135	773,551	809,486	799,336	1,248,440
16	Sold.....dozens.....	1,019,107	748,021	1,233,478	610,907	589,293	547,486	494,482	908,598
17	Value of poultry and eggs produced.....dollars.....	381,754	355,312	474,958	323,260	220,258	277,301	285,512	388,884
18	Receipts from sale of poultry and eggs.....dollars.....	242,665	214,381	314,613	171,134	153,989	160,118	153,123	237,250
Honey and Wax									
19	Honey produced.....pounds.....	5,396	15,603	18,468	501	5,487	3,105	3,747	11,298
20	Wax produced.....pounds.....	82	107	96	12	28	30	22	105
21	Value of honey and wax produced.....dollars.....	690	2,289	2,487	78	865	469	668	1,617
Wool, Mohair, and Goat Hair									
22	Wool, fleeces shorn.....number.....	8,226	90,107	9,028	7,059	68,547	21,494	27,497	3,303
23	Mohair and goat hair, fleeces shorn.....number.....	.....	1	.....	4	.....	1	.....	21
24	Value of wool and mohair produced.....dollars.....	17,260	202,678	17,330	13,368	155,039	39,444	56,589	6,024
DOMESTIC ANIMALS SOLD OR SLAUGHTERED									
25	Calves—Sold or slaughtered.....number.....	4,538	4,980	3,589	7,133	2,303	3,615	4,509	5,922
26	Other cattle—Sold or slaughtered.....number.....	9,019	9,134	5,016	7,251	4,916	13,204	11,317	3,393
27	Horses, mules, and asses and burros—Sold.....number.....	1,329	2,216	1,530	787	890	1,731	1,437	848
28	Swine—Sold or slaughtered.....number.....	67,762	17,524	36,603	47,862	17,054	67,389	57,645	23,589
29	Sheep and goats—Sold or slaughtered.....number.....	6,265	31,905	5,474	7,038	25,030	33,993	16,169	1,731
30	Receipts from sale of animals.....dollars.....	1,284,851	860,455	699,416	1,084,852	439,806	1,815,691	1,459,688	433,763
31	Value of animals slaughtered.....dollars.....	201,776	203,535	183,936	151,922	161,580	199,694	158,174	151,730

STATISTICS OF AGRICULTURE.

AND NATIVITY OF FARMERS; AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in Italics.]

	Clinton.	Columbiana.	Coshocton.	Crawford.	Cuyahoga.	Darke.	Defiance.	Delaware.	Erle.	Fairfield.	Fayette.	Franklin.
1	1,558	2,923	2,594	1,659	3,383	2,909	1,913	2,263	1,501	2,452	1,080	2,471
2	<i>1,574</i>	<i>2,698</i>	<i>2,774</i>	<i>1,883</i>	<i>3,412</i>	<i>3,218</i>	<i>2,062</i>	<i>2,284</i>	<i>1,374</i>	<i>2,486</i>	<i>1,173</i>	<i>2,551</i>
3	60.2	74.5	81.1	66.5	75.3	52.9	71.9	73.6	76.7	72.0	58.5	64.3
4	<i>62.2</i>	<i>71.8</i>	<i>82.5</i>	<i>71.3</i>	<i>74.6</i>	<i>60.0</i>	<i>74.7</i>	<i>72.9</i>	<i>69.7</i>	<i>72.6</i>	<i>60.0</i>	<i>63.8</i>
5	133,687	215,931	272,394	152,428	155,701	177,057	172,520	189,873	102,879	199,581	134,179	176,694
6	118,595	166,661	219,468	127,639	111,410	154,898	132,499	158,147	84,708	172,163	125,570	160,337
7	11,043,735	12,176,154	10,082,155	12,679,841	28,622,495	17,894,347	14,151,848	13,933,197	10,287,295	15,327,298	12,886,944	19,811,533
8	1,277	2,672	2,106	1,327	2,909	2,460	1,514	1,933	1,255	2,073	853	1,978
9	281	251	488	332	474	449	390	330	246	379	227	493
10	1,504	2,735	2,499	1,518	2,109	2,757	1,702	2,214	1,163	2,398	1,000	2,246
11	29	186	95	141	1,272	105	211	42	334	51	8	205
12	25	2	.....	.....	2	47	.....	7	4	3	12	20
13	945	964	580	821	986	2,576	733	780	438	916	742	1,316
14	<i>907</i>	<i>1,008</i>	<i>550</i>	<i>743</i>	<i>1,034</i>	<i>2,120</i>	<i>678</i>	<i>800</i>	<i>614</i>	<i>754</i>	<i>754</i>	<i>1,293</i>
15	36.5	24.6	13.1	32.9	21.9	46.8	27.6	25.4	22.4	26.9	40.2	34.3
16	<i>35.8</i>	<i>26.9</i>	<i>16.3</i>	<i>28.1</i>	<i>23.1</i>	<i>39.5</i>	<i>24.6</i>	<i>25.5</i>	<i>29.1</i>	<i>26.7</i>	<i>38.6</i>	<i>35.1</i>
17	111,796	91,477	67,690	91,830	49,611	193,067	72,839	81,031	40,054	95,242	106,721	122,331
18	99,545	68,775	54,308	76,757	35,100	169,251	55,146	67,441	33,120	83,796	101,270	110,529
19	9,025,534	4,764,826	2,567,890	7,234,124	10,512,360	19,497,295	5,732,355	5,569,832	3,713,395	7,444,270	10,178,156	12,677,861
20	581	299	395	554	108	2,409	552	362	238	712	372	391
21	97	25	37	34	11	25	28	54	13	33	80	145
22	263	524	119	232	864	94	145	327	185	150	273	668
23	4	116	29	1	3	48	8	37	2	21	17	112
24	925	915	573	799	573	2,536	695	770	352	999	736	1,242
25	4	46	7	22	411	27	38	6	84	7	3	53
26	16	3	.....	.....	2	13	.....	4	2	.....	3	21
27	83	34	26	14	124	13	13	30	17	39	24	55
28	<i>50</i>	<i>49</i>	<i>40</i>	<i>14</i>	<i>105</i>	<i>27</i>	<i>20</i>	<i>40</i>	<i>23</i>	<i>26</i>	<i>28</i>	<i>42</i>
29	14,921	4,782	3,513	1,154	12,418	2,056	4,323	5,678	1,386	6,244	8,240	7,236
30	13,178	3,435	2,923	967	7,932	1,608	2,542	4,525	1,182	5,040	7,623	6,178
31	1,310,895	305,815	116,880	105,700	5,496,653	247,880	304,960	383,645	223,300	525,215	768,445	2,601,200
32	1,115	2,106	1,963	1,253	2,309	1,874	1,274	1,612	968	1,803	718	1,703
33	<i>435</i>	<i>771</i>	<i>617</i>	<i>394</i>	<i>1,048</i>	<i>971</i>	<i>630</i>	<i>627</i>	<i>520</i>	<i>630</i>	<i>354</i>	<i>739</i>
34	8	46	14	12	26	64	9	24	13	19	8	29
35	326	660	447	289	876	749	439	490	401	490	234	552
36	1,985,208	2,458,225	1,544,058	1,946,940	5,392,890	4,284,215	3,203,280	2,639,273	2,514,180	2,731,064	2,544,069	4,036,010
37	582,462	801,506	449,946	499,808	1,472,505	1,241,900	855,355	738,879	771,773	785,243	697,765	1,039,683
38	29.3	32.6	29.1	25.7	27.3	29.0	26.7	28.0	30.7	28.8	27.4	25.8

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909—Continued.

1	6,828	16,403	8,527	8,955	11,933	15,301	7,935	12,654	5,169	9,501	4,312	15,436
2	<i>6,415</i>	<i>12,760</i>	<i>8,046</i>	<i>8,516</i>	<i>11,609</i>	<i>13,084</i>	<i>7,720</i>	<i>10,646</i>	<i>4,997</i>	<i>9,287</i>	<i>3,628</i>	<i>13,614</i>
3	1,975,225	4,996,314	2,952,393	2,946,958	6,298,531	5,251,355	2,870,561	4,348,607	2,128,301	3,351,848	1,332,201	5,876,368
4	<i>263,088</i>	<i>2,389,084</i>	<i>233,413</i>	<i>3,688,100</i>	<i>3,688,100</i>	<i>311,180</i>	<i>608,408</i>	<i>1,761,799</i>	<i>631,068</i>	<i>314,966</i>	<i>107,261</i>	<i>2,974,453</i>
5	10,237	94,530	11,687	7,828	19,277	36,990	21,685	13,402	9,411	26,224	4,702	15,989
6	<i>114,201</i>	<i>168,187</i>	<i>28,398</i>	<i>85,083</i>	<i>36,488</i>	<i>519,819</i>	<i>86,855</i>	<i>476,368</i>	<i>5,450</i>	<i>89,614</i>	<i>11,575</i>	<i>94,842</i>
7	527,766	915,775	802,823	784,423	758,648	1,292,558	633,447	543,770	473,072	808,458	329,338	1,101,233
8	290,058	641,820	496,358	512,680	420,768	906,031	330,634	348,768	283,837	528,263	162,313	785,678
9	.....	12,500	569	934	74,384	150	.....	.....	.....	630	.....	1,160
10	.....	12,500	475	859	68,420	100	.....	.....	.....	630	.....	1,160
11	185,490	682,982	216,459	237,914	743,004	464,959	246,136	488,284	213,648	261,256	93,448	861,122
12	<i>136,673</i>	<i>616,753</i>	<i>155,548</i>	<i>182,631</i>	<i>655,733</i>	<i>384,266</i>	<i>180,356</i>	<i>439,034</i>	<i>171,389</i>	<i>202,190</i>	<i>58,713</i>	<i>784,221</i>
13	335,122	244,601	196,355	215,826	257,980	561,706	265,610	259,232	156,445	309,748	225,208	428,746
14	118,445	120,791	88,065	100,546	97,460	208,885	130,744	102,331	76,091	111,461	65,194	163,313
15	1,021,524	1,217,947	1,119,176	1,173,867	1,246,640	2,118,260	1,308,477	1,366,176	590,826	1,275,131	745,073	1,309,491
16	652,884	887,600	817,193	864,749	719,853	1,535,664	1,000,063	1,078,761	389,272	919,618	559,258	874,920
17	367,243	361,555	312,717	326,363	435,233	634,327	384,030	380,023	197,781	370,172	234,898	482,036
18	191,160	240,289	208,689	219,457	228,196	388,154	261,481	264,354	122,106	226,197	132,248	265,555
19	5,622	7,280	12,414	4,966	11,491	5,877	5,002	2,809	9,550	6,028	2,590	4,045
20	15	8	92	37	312	52	15	5	170	190	.....	29
21	944	1,225	1,749	756	1,710	916	476	443	1,178	1,017	413	702
22	18,052	31,769	115,373	56,269	4,300	4,360	17,514	56,217	13,611	17,568	12,383	9,755
23	.....	17	250	.....	42	4	.....	50	.....	1	4	24
24	40,151	69,286	255,709	122,656	9,447	9,527	36,304	122,736	29,710	34,852	25,693	20,049
25	2,590	9,511	1,795	3,366	11,856	5,839	3,317	5,872	2,941	4,147	929	8,792
26	8,009	7,019	6,768	5,969	7,658	8,770	3,833	7,647	3,229	9,544	12,491	8,189
27	1,138	1,202	1,223	678	1,441	2,296	1,038	1,928	382	1,054	1,115	1,550
28	91,102	23,337	26,167	47,759	10,157	66,637	27,189	45,930	15,500	66,946	83,420	50,965
29	11,689	18,411	41,111	27,082	3,384	2,033	12,915	25,412	7,039	11,700	9,455	5,314
30	1,729,566	591,825	712,326	1,161,323	503,739	1,215,746	591,472	1,244,381	310,559	1,243,652	1,876,285	1,113,825
31	152,411	219,252	187,940	177,213	100,147	407,574	140,326	147,179	110,728	281,685	109,177	198,957

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR

[Comparative data for June 1, 1900, in italics.]

	Fulton.	Gallia.	Geauga.	Greene.	Guernsey.	Hamilton.	Hancock.	Hardin.
FARMS OPERATED BY OWNERS								
1 Number of farms.....	2, 198	2, 687	1, 958	1, 531	2, 526	2, 786	2, 019	1, 978
2 <i>Number of farms in 1900.....</i>	<i>2, 142</i>	<i>2, 697</i>	<i>1, 871</i>	<i>1, 600</i>	<i>2, 491</i>	<i>2, 403</i>	<i>2, 210</i>	<i>2, 122</i>
3 Per cent of all farms.....	70.4	83.2	76.1	59.5	82.8	67.5	61.1	62.4
4 <i>Per cent of all farms in 1900.....</i>	<i>74.6</i>	<i>80.2</i>	<i>74.2</i>	<i>59.2</i>	<i>77.2</i>	<i>58.5</i>	<i>67.7</i>	<i>65.3</i>
5 Land in farms..... acres.....	163, 055	239, 084	164, 170	137, 966	251, 882	123, 609	181, 049	169, 490
6 <i>Improved land in farms..... acres.....</i>	<i>134, 937</i>	<i>186, 551</i>	<i>95, 779</i>	<i>118, 417</i>	<i>205, 508</i>	<i>94, 724</i>	<i>153, 119</i>	<i>144, 744</i>
7 Value of land and buildings..... dollars.....	14, 558, 631	4, 945, 790	8, 237, 808	11, 696, 152	8, 944, 390	13, 796, 105	17, 507, 466	14, 875, 302
Degree of ownership:								
8 Farms consisting of owned land only.....	1, 937	2, 286	1, 771	1, 236	2, 285	2, 430	1, 678	1, 607
9 Farms consisting of owned and hired land.....	261	401	187	295	241	356	341	371
Color and nativity of owners:								
10 Native white.....	2, 011	2, 530	1, 662	1, 410	2, 408	2, 113	1, 930	1, 892
11 Foreign-born white.....	187	49	296	49	114	664	85	78
12 Negro and other nonwhite.....		108		72	4	9	4	8
FARMS OPERATED BY TENANTS								
13 Number of farms.....	914	526	586	1, 004	508	1, 278	1, 236	1, 157
14 <i>Number of farms in 1900.....</i>	<i>811</i>	<i>599</i>	<i>610</i>	<i>1, 047</i>	<i>647</i>	<i>1, 652</i>	<i>1, 029</i>	<i>995</i>
15 Per cent of all farms.....	29.3	16.3	22.8	39.0	16.7	31.0	37.4	36.5
16 <i>Per cent of all farms in 1900.....</i>	<i>24.8</i>	<i>17.8</i>	<i>24.2</i>	<i>39.0</i>	<i>20.0</i>	<i>40.2</i>	<i>37.4</i>	<i>36.5</i>
17 Land in farms..... acres.....	81, 618	32, 776	70, 185	113, 416	57, 769	68, 233	132, 019	99, 665
18 <i>Improved land in farms..... acres.....</i>	<i>67, 202</i>	<i>25, 521</i>	<i>39, 330</i>	<i>96, 278</i>	<i>46, 872</i>	<i>53, 771</i>	<i>110, 067</i>	<i>84, 335</i>
19 Value of land and buildings..... dollars.....	7, 409, 825	779, 385	3, 402, 015	9, 140, 700	2, 028, 972	7, 789, 380	12, 523, 558	8, 269, 390
Form of tenancy:								
20 Share tenants.....	627	399	260	705	266	272	890	685
21 Share-cash tenants.....	23	21	18	66	31	76	37	56
22 Cash tenants.....	262	85	305	180	193	908	255	388
23 Tenure not specified.....	2	21	3	53	18	22	54	28
Color and nativity of tenants:								
24 Native white.....	893	502	518	960	501	1, 011	1, 218	1, 127
25 Foreign-born white.....	21	1	68	11	5	252	16	15
26 Negro and other nonwhite.....		23		33	2	15	2	15
FARMS OPERATED BY MANAGERS								
27 Number of farms.....	12	15	30	40	17	65	49	37
28 <i>Number of farms in 1900.....</i>	<i>20</i>	<i>65</i>	<i>39</i>	<i>50</i>	<i>90</i>	<i>66</i>	<i>24</i>	<i>134</i>
29 Land in farms..... acres.....	1, 563	2, 082	5, 153	7, 316	2, 235	5, 933	6, 351	10, 750
30 <i>Improved land in farms..... acres.....</i>	<i>1, 195</i>	<i>1, 514</i>	<i>2, 676</i>	<i>5, 998</i>	<i>1, 756</i>	<i>4, 230</i>	<i>5, 395</i>	<i>7, 767</i>
31 Value of land and buildings..... dollars.....	133, 200	145, 207	289, 850	652, 715	99, 850	1, 311, 375	683, 570	795, 280
MORTGAGE DEBT REPORTS:								
For all farms operated by owners:								
32 Number free from mortgage debt.....	1, 251	2, 023	1, 249	1, 007	1, 962	1, 914	1, 434	1, 137
33 Number with mortgage debt.....	942	656	690	512	547	849	550	804
34 Number with no mortgage report.....	5	8	19	12	17	23	35	37
For farms consisting of owned land only:								
35 Number reporting debt and amount.....	797	498	589	386	469	697	409	597
36 Value of their land and buildings..... dollars.....	4, 841, 945	801, 582	2, 330, 312	2, 575, 120	1, 475, 142	2, 855, 235	3, 365, 710	4, 381, 056
37 Amount of mortgage debt..... dollars.....	1, 446, 809	258, 436	732, 082	800, 058	394, 808	886, 519	828, 991	1, 132, 111
38 Per cent of value of land and buildings.....	29.9	32.2	31.4	31.1	26.7	34.6	24.6	25.8

¹ No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS								
Dairy Products								
1 Dairy cows on farms reporting dairy products..... number.....	14, 992	6, 094	16, 150	8, 680	8, 143	15, 374	11, 441	7, 761
2 Dairy cows on farms reporting milk produced..... number.....	10, 242	5, 909	13, 910	7, 890	7, 502	15, 168	10, 936	7, 134
3 Milk—Produced..... gallons.....	5, 880, 306	2, 000, 795	7, 384, 396	2, 930, 812	2, 720, 654	8, 048, 301	3, 509, 023	2, 409, 682
4 Sold..... gallons.....	6, 646, 098	108, 147	6, 683, 289	458, 671	300, 029	4, 641, 738	207, 659	235, 629
5 Cream sold..... gallons.....	17, 810	567	46, 605	46, 847	2, 724	29, 634	39, 421	15, 698
6 Butter fat sold..... pounds.....	15, 156		113, 230		32, 669		69, 123	97, 309
7 Butter—Produced..... pounds.....	375, 551	672, 775	268, 031	642, 710	810, 543	1, 199, 768	960, 526	578, 351
8 Sold..... pounds.....	219, 863	365, 097	179, 048	413, 954	494, 735	886, 353	605, 765	304, 858
9 Cheese—Produced..... pounds.....	600	50		1, 644	150	205, 305	457	
10 Sold..... pounds.....	100			1, 494		198, 487	297	
11 Value of dairy products, excluding home use of milk and cream..... dollars.....	773, 559	144, 454	864, 455	285, 834	237, 926	1, 306, 565	285, 907	185, 029
12 Receipts from sale of dairy products..... dollars.....	736, 552	87, 456	842, 218	233, 334	169, 642	1, 224, 672	208, 330	127, 926
Poultry Products								
13 Poultry—Raised..... number.....	282, 557	196, 944	132, 785	291, 399	159, 879	325, 683	348, 729	277, 344
14 Sold..... number.....	149, 096	76, 172	66, 498	93, 125	80, 441	111, 880	167, 134	118, 783
15 Eggs—Produced..... dozens.....	1, 606, 279	975, 307	887, 270	894, 788	775, 592	1, 042, 051	1, 358, 778	1, 313, 524
16 Sold..... dozens.....	1, 274, 368	744, 092	666, 049	614, 185	550, 437	629, 668	971, 633	1, 000, 561
17 Value of poultry and eggs produced..... dollars.....	460, 959	280, 515	248, 948	300, 002	220, 877	377, 303	439, 807	377, 526
18 Receipts from sale of poultry and eggs..... dollars.....	330, 399	184, 490	173, 458	160, 384	147, 259	195, 506	275, 129	251, 020
Honey and Wax								
19 Honey produced..... pounds.....	6, 304	32, 073	14, 549	3, 009	12, 575	5, 232	11, 460	13, 573
20 Wax produced..... pounds.....	70	274	80	17	7	225	45	82
21 Value of honey and wax produced..... dollars.....	811	4, 172	1, 569	532	1, 910	813	1, 608	2, 074
Wool, Mohair, and Goat Hair								
22 Wool, fleeces shorn..... number.....	13, 701	18, 281	5, 397	21, 772	96, 933	1, 988	44, 461	50, 000
23 Mohair and goat hair, fleeces shorn..... number.....		60	35	10			50	1
24 Value of wool and mohair produced..... dollars.....	31, 035	34, 890	12, 113	44, 483	213, 975	3, 274	97, 042	111, 212
DOMESTIC ANIMALS SOLD OR SLAUGHTERED								
25 Calves—Sold or slaughtered..... number.....	11, 714	2, 213	13, 083	2, 875	2, 386	7, 626	2, 866	1, 971
26 Other cattle—Sold or slaughtered..... number.....	5, 652	7, 552	7, 231	7, 222	8, 462	11, 951	9, 191	7, 102
27 Horses, mules, and asses and burros—Sold..... number.....	1, 617	599	635	1, 067	1, 171	843	1, 199	1, 242
28 Swine—Sold or slaughtered..... number.....	77, 955	13, 115	11, 214	60, 458	14, 806	17, 283	67, 886	59, 317
29 Sheep and goats—Sold or slaughtered..... number.....	8, 851	7, 986	3, 244	8, 661	25, 399	1, 381	24, 935	23, 101
30 Receipts from sale of animals..... dollars.....	1, 384, 603	382, 027	493, 251	1, 243, 402	559, 482	682, 204	1, 420, 063	1, 221, 047
31 Value of animals slaughtered..... dollars.....	124, 084	140, 976	76, 078	158, 662	176, 630	175, 661	193, 593	158, 849

STATISTICS OF AGRICULTURE.

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AND NATIVITY OF FARMERS; AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in italics.]

	Harrison.	Henry.	Highland.	Hocking.	Holmes.	Huron.	Jackson.	Jefferson.	Knox.	Lake.	Lawrence.	Licking.	Logan.
1	1,798	2,054	2,497	1,601	1,955	2,159	1,886	1,411	2,421	1,469	2,277	3,252	1,932
2	<i>1,883</i>	<i>2,889</i>	<i>2,612</i>	<i>1,786</i>	<i>2,006</i>	<i>2,283</i>	<i>1,816</i>	<i>1,443</i>	<i>2,639</i>	<i>1,514</i>	<i>2,174</i>	<i>3,474</i>	<i>2,111</i>
3	79.7	67.7	71.0	80.7	75.2	73.7	80.6	71.1	74.0	75.5	77.4	75.5	66.9
4	78.8	70.5	73.8	79.2	76.2	73.7	87.4	71.8	77.1	79.6	73.8	77.9	66.6
5	192,049	168,164	235,211	177,906	188,808	201,092	184,977	155,726	226,997	90,676	163,107	296,941	170,848
6	159,017	143,535	201,721	126,286	143,704	162,664	146,355	109,303	188,663	64,037	110,402	256,255	138,808
7	8,593,026	17,347,963	10,514,580	3,955,493	10,606,889	14,757,561	3,483,551	6,778,769	13,579,593	8,704,672	3,806,271	17,458,213	12,042,368
8	1,497	1,612	2,162	1,428	1,597	1,803	1,611	1,344	1,973	1,282	1,896	2,780	1,588
9	301	442	335	173	353	356	275	67	448	187	381	472	344
10	1,752	1,681	2,438	1,570	1,845	1,932	1,731	1,247	2,376	1,221	2,185	3,203	1,859
11	28	370	25	28	110	225	88	146	44	246	35	47	34
12	18	3	34	3	.....	2	67	18	1	2	57	2	39
13	443	965	985	365	623	753	258	549	826	357	637	1,030	935
14	<i>482</i>	<i>679</i>	<i>860</i>	<i>448</i>	<i>592</i>	<i>775</i>	<i>222</i>	<i>550</i>	<i>716</i>	<i>539</i>	<i>748</i>	<i>957</i>	<i>1,033</i>
15	19.6	31.8	28.0	18.4	24.0	25.7	11.8	27.7	25.2	18.4	21.7	23.9	32.4
16	20.2	28.9	24.3	18.9	22.5	25.0	10.7	27.3	20.9	17.8	25.4	21.5	32.6
17	51,588	84,862	102,463	43,850	67,288	87,320	20,578	70,612	94,624	24,728	25,347	112,759	103,245
18	41,689	72,312	88,205	28,750	53,023	69,110	15,738	47,239	78,182	16,936	18,290	97,197	83,240
19	2,489,184	8,545,120	4,885,196	973,873	3,991,460	6,032,178	336,826	2,919,616	5,731,515	2,532,187	681,322	6,647,889	6,910,403
20	187	752	794	219	470	487	104	192	585	147	428	573	716
21	36	29	33	11	13	27	41	14	44	11	39	63	52
22	205	153	144	125	133	235	101	262	157	194	153	324	162
23	15	31	14	10	7	4	12	81	40	5	17	70	5
24	434	907	973	362	616	696	250	527	818	295	618	1,020	922
25	5	58	1	1	7	54	.....	3	7	59	3	10	7
26	4	.....	11	2	.....	3	8	19	1	3	16	.....	6
27	15	13	37	19	21	16	34	24	25	119	26	25	19
28	<i>25</i>	<i>19</i>	<i>67</i>	<i>21</i>	<i>34</i>	<i>39</i>	<i>40</i>	<i>18</i>	<i>70</i>	<i>49</i>	<i>23</i>	<i>27</i>	<i>28</i>
29	1,792	1,524	7,346	4,172	2,807	2,511	31,459	3,067	3,095	15,344	16,891	5,106	4,885
30	1,427	1,380	6,559	3,350	1,948	1,975	10,025	1,808	2,508	11,327	5,041	4,477	4,341
31	119,540	172,080	356,832	156,800	171,005	200,100	868,670	166,626	213,970	4,638,600	385,350	352,735	421,200
32	1,371	1,332	1,894	1,325	1,496	1,469	1,538	1,074	1,823	960	1,749	2,217	1,186
33	418	713	587	270	437	678	327	328	587	480	521	1,009	716
34	9	9	16	6	22	12	21	9	11	29	7	26	30
35	317	509	459	222	328	509	268	283	430	391	423	778	545
36	1,293,827	4,208,495	1,775,453	493,590	1,468,160	2,993,773	407,982	1,357,020	2,156,593	1,880,203	729,371	3,633,940	3,314,966
37	366,004	1,121,292	586,463	135,463	405,910	868,207	110,486	416,852	570,708	497,579	195,996	1,058,126	890,624
38	28.3	26.6	33.0	27.4	27.6	29.0	27.1	30.7	26.5	26.5	26.9	29.1	26.9

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909—Continued.

1	6,326	9,416	7,663	4,668	10,902	8,506	4,710	6,977	8,770	5,659	5,511	13,879	9,138
2	5,927	8,243	7,055	4,593	10,492	7,571	4,674	5,233	8,488	4,907	5,418	12,885	7,869
3	2,499,123	3,191,020	2,375,253	1,490,941	3,972,439	3,656,144	1,457,893	2,019,149	3,029,130	2,397,947	2,108,074	5,071,987	2,803,554
4	235,315	288,534	163,710	74,274	846,880	376,626	55,402	766,588	288,418	1,059,859	115,266	1,431,781	1,011,595
5	3,808	53,800	4,575	3,059	15,801	15,518	663	38,804	13,071	35,253	4,482	17,862	27,318
6	46,746	53,104	67,686	.....	303,971	83,083	.....	13,707	65,749	6,256	.....	138,745	136,798
7	669,237	731,620	714,353	470,630	655,847	835,361	473,058	587,555	895,053	455,037	726,358	1,149,033	506,531
8	456,820	378,132	391,968	283,204	360,740	492,253	250,353	373,313	542,150	267,746	417,818	776,098	312,077
9	200	200	.....	150	6,490	3,800	.....	.....	750	430	.....	.....	.....
10	100	.....	.....	.....	3,479	3,600	.....	.....	600	355	200	.....	.....
11	192,984	233,648	184,892	116,548	311,145	267,244	114,032	309,108	255,938	308,516	185,017	505,734	287,804
12	148,405	161,145	124,261	77,795	248,757	195,586	66,829	256,531	184,535	265,445	120,550	423,397	243,167
13	152,450	373,191	362,149	96,365	193,838	225,699	124,234	140,531	240,959	99,223	126,026	329,141	294,803
14	84,749	170,305	133,952	34,574	81,513	109,370	36,299	66,000	92,123	36,197	45,147	129,752	109,806
15	642,313	1,560,823	1,432,457	520,266	1,203,917	1,228,574	515,935	561,422	1,223,737	411,279	474,696	1,560,104	1,241,220
16	476,671	1,167,272	1,084,465	363,632	944,153	874,589	335,054	360,146	922,579	208,669	295,556	1,166,963	995,491
17	203,956	473,720	415,624	135,507	322,591	355,694	144,798	188,695	359,653	149,061	134,676	453,286	379,742
18	144,207	307,453	269,900	82,993	224,049	236,581	78,672	114,400	234,785	69,451	74,659	292,828	250,303
19	6,389	9,629	19,733	7,616	7,301	12,163	13,052	4,133	6,828	9,160	31,186	5,277	7,359
20	34	199	102	22	28	208	44	4	30	90	30	28	12
21	1,033	1,121	2,831	1,323	951	1,523	2,375	751	1,011	1,057	4,667	833	1,075
22	136,859	7,459	22,320	18,235	33,839	65,104	4,548	55,808	150,633	4,028	1,208	119,601	43,390
23	18	.....	95	68	130	3	.....	19	5	41	.....	2	.....
24	331,135	14,561	42,693	36,360	68,577	149,185	6,448	123,035	347,280	8,071	1,583	256,365	91,258
25	1,459	3,375	2,382	1,402	5,088	3,341	999	3,497	1,787	2,800	1,631	5,204	2,999
26	5,371	3,765	10,345	5,410	6,117	5,112	6,542	3,677	7,991	1,522	3,075	13,016	7,565
27	1,229	1,497	1,336	413	3,160	1,008	462	579	1,662	216	336	1,617	1,818
28	11,079	32,531	71,106	11,943	33,487	28,716	8,220	9,825	36,585	5,628	7,547	46,390	49,703
29	42,287	4,816	22,082	7,270	18,390	35,568	3,179	16,901	57,036	1,379	3,247	34,993	32,130
30	588,020	641,838	1,454,839	277,850	1,221,368	744,575	298,684	326,827	1,162,949	172,565	139,554	1,254,607	1,268,931
31	136,865	145,054	190,957	121,030	161,044	121,029	89,304	100,512	160,030	43,226	87,549	199,870	151,385

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR

[Comparative data for June 1, 1900, in italics.]

	Lorain.	Lucas.	Madison.	Mahoning.	Marion.	Medina.	Melgs.	Mercer.	
FARMS OPERATED BY OWNERS									
1	Number of farms.....	2,762	1,963	953	2,366	1,388	2,412	2,611	2,276
2	Number of farms in 1900.....	<i>2,817</i>	<i>1,915</i>	<i>978</i>	<i>2,321</i>	<i>1,528</i>	<i>2,244</i>	<i>2,709</i>	<i>2,409</i>
3	Per cent of all farms.....	77.0	70.5	52.0	78.2	64.8	76.4	86.0	70.8
4	Per cent of all farms in 1900.....	<i>77.0</i>	<i>68.2</i>	<i>50.7</i>	<i>76.5</i>	<i>68.6</i>	<i>75.4</i>	<i>83.8</i>	<i>75.3</i>
5	Land in farms.....	205,270	110,598	124,895	170,692	146,704	181,823	216,027	195,262
6	Improved land in farms.....	167,977	91,870	114,894	120,938	130,708	135,513	165,355	182,242
7	Value of land and buildings.....	15,871,249	13,096,760	11,331,748	12,021,371	12,626,963	11,540,855	5,537,882	17,624,232
Degrees of ownership:									
8	Farms consisting of owned land only.....	2,362	1,607	742	2,159	1,061	2,081	2,275	1,945
9	Farms consisting of owned and lured land.....	400	356	211	207	327	331	336	331
Color and nativity of owners:									
10	Native white.....	2,177	1,483	907	2,133	1,316	2,223	2,532	2,054
11	Foreign-born white.....	569	477	38	232	72	189	58	208
12	Negro and other nonwhite.....	16	3	8	1		21	14	14
FARMS OPERATED BY TENANTS									
13	Number of farms.....	797	786	857	608	733	731	404	919
14	Number of farms in 1900.....	<i>766</i>	<i>865</i>	<i>921</i>	<i>663</i>	<i>678</i>	<i>703</i>	<i>510</i>	<i>884</i>
15	Per cent of all farms.....	22.2	28.2	46.8	20.1	34.2	23.1	13.3	28.6
16	Per cent of all farms in 1900.....	<i>20.9</i>	<i>30.8</i>	<i>47.8</i>	<i>21.9</i>	<i>30.4</i>	<i>23.8</i>	<i>15.8</i>	<i>28.3</i>
17	Land in farms.....	76,132	51,521	149,048	56,607	90,487	71,603	35,273	79,603
18	Improved land in farms.....	61,810	42,784	137,558	38,421	81,378	53,647	24,976	67,623
19	Value of land and buildings.....	5,418,120	7,062,542	12,463,933	3,605,720	7,598,025	4,194,624	942,750	7,150,665
Form of tenancy:									
20	Share tenants.....	233	311	213	190	375	430	271	633
21	Share-cash tenants.....	33	29	133	20	74	30	9	41
22	Cash tenants.....	461	435	496	380	282	264	110	228
23	Tenure not specified.....	70	11	15	18	2	7	14	17
Color and nativity of tenants:									
24	Native white.....	710	647	821	549	721	705	397	898
25	Foreign-born white.....	84	139	16	56	12	25	2	18
26	Negro and other nonwhite.....	3		20	3		1	5	3
FARMS OPERATED BY MANAGERS									
27	Number of farms.....	27	35	23	50	20	16	21	18
28	Number of farms in 1900.....	<i>27</i>	<i>27</i>	<i>29</i>	<i>50</i>	<i>21</i>	<i>26</i>	<i>12</i>	<i>15</i>
29	Land in farms.....	4,327	3,338	12,643	7,700	5,185	1,542	2,546	2,740
30	Improved land in farms.....	3,197	2,889	11,373	5,279	4,606	1,236	2,158	2,229
31	Value of land and buildings.....	585,594	872,610	939,005	993,196	607,525	126,580	71,000	344,390
MORTGAGE DEBT REPORTS¹									
For all farms operated by owners:									
32	Number free from mortgage debt.....	1,856	1,219	617	1,770	969	1,587	2,090	1,467
33	Number with mortgage debt.....	886	740	318	569	412	811	508	790
34	Number with no mortgage report.....	20	4	18	27	7	14	13	19
For farms consisting of owned land only:									
35	Number reporting debt and amount.....	705	575	198	476	268	655	411	596
36	Value of their land and buildings.....	3,667,780	3,286,380	2,241,473	2,161,169	2,191,219	2,811,041	739,821	4,368,510
37	Amount of mortgage debt.....	1,102,873	925,396	596,848	598,982	566,314	904,064	200,527	1,090,217
38	Per cent of value of land and buildings.....	31.7	28.2	26.6	27.7	25.8	32.2	27.1	25.0

¹ No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS										
Dairy Products										
1	Dairy cows on farms reporting dairy products.....	number..	16,481	8,863	5,534	13,309	6,734	12,201	6,183	10,532
2	Dairy cows on farms reporting milk produced.....	number..	14,564	7,619	4,975	10,796	6,201	8,244	6,095	10,239
3	Milk—Produced.....	gallons..	7,743,407	3,182,417	1,630,403	4,962,547	2,176,405	4,006,091	2,115,277	2,872,436
4	Sold.....	gallons..	4,611,901	1,610,989	127,504	2,096,772	243,152	1,696,116	62,607	76,359
5	Cream sold.....	gallons..	65,357	20,011	22,123	75,755	3,478	91,029	2,530	90,899
6	Butter sold.....	pounds..	177,777	115,688	53,621	82,439	21,180	566,157	3,129	254,255
7	Butter—Produced.....	pounds..	747,970	520,476	333,322	1,063,458	675,858	530,574	655,820	475,465
8	Sold.....	pounds..	481,989	274,032	172,341	822,111	416,829	356,932	369,978	170,682
9	Cheese—Produced.....	pounds..	69,045	272		16,197		1,700	6,704	100
10	Sold.....	pounds..	68,445	155		15,901		1,700	6,300	100
11	Value of dairy products, excluding home use of milk and cream.....	dollars..	850,663	443,554	123,104	694,712	187,524	556,517	152,294	222,972
12	Receipts from sale of dairy products.....	dollars..	782,617	383,337	89,731	632,673	133,446	515,467	94,217	160,838
Poultry Products										
13	Poultry—Raised.....	number..	273,218	265,964	234,067	188,572	247,392	218,520	180,698	341,214
14	Sold.....	number..	132,925	111,241	64,976	92,250	96,490	124,819	80,793	116,687
15	Eggs—Produced.....	dozens..	1,238,256	908,711	876,185	900,550	1,024,899	1,110,195	987,867	1,679,604
16	Sold.....	dozens..	846,115	583,222	639,167	643,090	731,213	833,341	757,751	1,332,046
17	Value of poultry and eggs produced.....	dollars..	408,021	326,172	267,795	294,945	313,482	340,869	290,971	467,798
18	Receipts from sale of poultry and eggs.....	dollars..	255,361	179,618	152,986	193,165	191,988	238,053	201,072	314,281
Honey and Wax										
19	Honey produced.....	pounds..	20,856	17,713	1,423	3,804	2,059	12,193	29,872	5,980
20	Wax produced.....	pounds..	272	298	8	19	25	170	139	42
21	Value of honey and wax produced.....	dollars..	2,346	2,215	217	531	335	1,549	3,745	817
Wool, Mohair, and Goat Hair										
22	Wool, fleeces shorn.....	number..	18,351	1,677	22,896	20,549	57,107	21,628	37,931	11,806
23	Mohair and goat hair, fleeces shorn.....	number..	9			28	1	23		
24	Value of wool and mohair produced.....	dollars..	40,766	3,412	42,927	43,041	117,893	50,925	82,886	24,322
DOMESTIC ANIMALS SOLD OR SLAUGHTERED										
25	Calves—Sold or slaughtered.....	number..	11,975	4,197	1,836	8,716	1,444	7,410	1,729	2,449
26	Other cattle—Sold or slaughtered.....	number..	12,855	2,725	13,001	7,200	7,364	6,715	5,543	6,412
27	Horses, mules, and asses and burros—Sold.....	number..	1,491	368	1,534	1,456	1,681	1,757	830	1,915
28	Swine—Sold or slaughtered.....	number..	18,714	16,738	83,852	18,151	55,832	22,010	10,696	61,985
29	Sheep and goats—Sold or slaughtered.....	number..	12,510	1,065	19,350	10,695	34,574	13,484	14,179	8,545
30	Receipts from sale of animals.....	dollars..	752,951	261,405	2,098,601	568,734	1,503,090	750,075	358,222	1,100,837
31	Value of animals slaughtered.....	dollars..	161,266	162,335	127,250	277,546	129,414	156,979	116,433	239,306

STATISTICS OF AGRICULTURE.

AND NATIVITY OF FARMERS; AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in italics.]

	Miami.	Monroe.	Montgomery.	Morgan.	Morrow.	Muskingum.	Noble.	Ottawa.	Paulding.	Perry.	Pickaway.	Pike.	Portage.
1													
2	1,580	2,666	2,848	2,221	1,948	3,162	2,243	1,719	1,850	1,970	1,263	1,716	2,791
3	<i>1,570</i>	<i>2,888</i>	<i>2,551</i>	<i>2,249</i>	<i>2,070</i>	<i>3,081</i>	<i>2,534</i>	<i>1,868</i>	<i>2,487</i>	<i>1,907</i>	<i>1,544</i>	<i>1,827</i>	<i>2,711</i>
4	47.5	81.1	57.0	83.7	71.0	81.9	82.7	77.6	65.1	81.6	54.8	78.4	77.7
5	<i>62.5</i>	<i>82.9</i>	<i>66.7</i>	<i>82.1</i>	<i>75.9</i>	<i>77.0</i>	<i>82.6</i>	<i>78.9</i>	<i>65.7</i>	<i>80.9</i>	<i>55.3</i>	<i>76.6</i>	<i>76.2</i>
6	90,672	221,154	134,832	214,949	165,294	316,670	207,290	106,981	156,817	179,322	145,027	184,071	210,237
7	81,398	164,873	115,916	171,925	134,522	259,130	180,884	89,073	134,627	138,836	131,698	101,608	133,191
8	9,785,912	7,090,072	18,286,243	6,756,137	10,343,727	11,734,413	7,735,094	12,339,539	15,504,003	6,151,579	13,637,145	3,372,430	12,168,048
9	1,280	2,367	2,498	1,993	1,611	2,827	1,915	1,386	1,305	1,726	990	1,503	2,519
10	300	299	350	223	337	335	328	333	545	244	273	213	272
11	1,525	2,502	2,625	2,184	1,915	3,056	2,207	1,100	1,658	1,869	1,243	1,500	2,546
12	45	158	214	19	31	90	33	618	150	99	17	43	243
13	10	6	9	18	2	16	3	1	42	2	3	83	2
14	1,721	602	2,111	400	775	663	453	464	975	431	1,013	450	764
15	<i>1,400</i>	<i>567</i>	<i>1,895</i>	<i>470</i>	<i>641</i>	<i>854</i>	<i>441</i>	<i>460</i>	<i>1,272</i>	<i>375</i>	<i>1,054</i>	<i>528</i>	<i>800</i>
16	51.7	18.3	42.3	15.1	28.3	17.2	16.7	20.9	34.3	17.9	43.9	21.0	21.3
17	<i>46.8</i>	<i>16.3</i>	<i>42.4</i>	<i>17.1</i>	<i>23.5</i>	<i>21.5</i>	<i>15.8</i>	<i>19.4</i>	<i>33.6</i>	<i>15.9</i>	<i>43.4</i>	<i>22.1</i>	<i>22.5</i>
18	153,228	49,092	130,507	36,108	81,477	74,110	32,878	35,398	96,180	44,465	157,502	52,001	79,571
19	136,899	35,586	112,272	28,719	65,581	60,486	28,708	28,642	83,980	32,494	145,436	31,489	48,123
20	15,138,363	1,421,626	15,632,014	1,131,320	5,023,515	2,970,668	1,262,157	3,722,140	9,635,397	1,628,191	14,662,519	1,565,731	4,271,847
21	1,531	398	1,709	209	427	311	319	270	754	211	704	346	433
22	19	35	72	13	47	46	24	23	97	15	101	23	20
23	79	144	229	94	292	241	82	169	98	155	186	42	294
24	92	30	101	84	9	65	28	2	26	50	22	48	17
25	1,692	598	2,064	395	763	653	449	351	930	404	980	442	708
26	25	4	43	2	8	5	2	113	30	22	22	2	54
27	4	-----	4	3	4	5	2	-----	15	5	11	15	2
28	27	20	35	32	20	36	17	33	15	13	30	14	36
29	<i>19</i>	<i>30</i>	<i>38</i>	<i>22</i>	<i>17</i>	<i>59</i>	<i>51</i>	<i>59</i>	<i>21</i>	<i>74</i>	<i>51</i>	<i>32</i>	<i>46</i>
30	3,556	1,331	3,003	3,350	2,465	5,662	2,157	4,508	2,612	1,898	7,893	6,154	5,744
31	3,074	1,025	2,332	2,656	2,099	4,904	1,905	3,243	1,966	1,545	6,673	3,365	3,631
32	388,040	76,100	506,250	120,215	163,540	255,221	85,745	622,200	237,372	81,480	744,630	286,350	338,180
33	1,003	2,204	1,790	1,672	1,351	2,266	1,815	1,173	798	1,554	891	1,413	1,897
34	556	451	1,027	545	580	877	413	534	1,045	402	347	294	867
35	21	11	31	4	17	19	10	12	7	14	25	9	27
36	409	372	841	473	441	741	307	406	690	310	251	235	727
37	2,349,715	897,532	5,135,210	1,184,175	2,042,476	2,348,487	898,073	2,611,910	6,014,325	809,106	2,575,894	460,997	3,196,915
38	703,918	282,600	1,551,964	355,099	603,417	699,260	268,795	776,270	1,679,085	232,334	657,300	126,296	1,089,320
39	30.0	31.5	30.2	30.0	29.5	29.8	29.9	29.7	27.9	28.7	25.5	27.4	34.1

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909—Continued.

1	9,497	9,616	13,575	5,592	7,722	10,812	6,396	6,050	5,806	5,912	7,009	3,345	15,520
2	9,126	7,932	13,483	5,539	6,444	10,436	5,493	5,983	5,730	5,550	5,951	3,286	11,829
3	3,583,658	2,762,054	7,112,567	2,095,181	2,354,465	3,953,190	2,240,789	2,101,507	1,894,081	2,213,638	1,594,042	997,998	5,414,965
4	446,933	972,562	1,974,261	35,143	301,817	572,287	46,747	129,171	62,664	72,593	123,049	9,883	4,296,827
5	38,202	2,101	18,009	6,477	4,421	10,895	1,006	33,340	12,773	5,916	19,820	140	21,335
6	204,168	-----	36,691	4,928	107,146	18,800	13,642	38,964	55,021	27,016	67,277	-----	159,998
7	813,545	744,183	1,578,626	733,245	730,078	1,037,232	812,644	476,017	512,379	617,920	513,415	311,109	690,113
8	548,958	415,921	1,157,137	405,644	447,013	697,762	482,115	247,869	224,601	384,737	284,405	129,310	447,052
9	1,075	32,366	2,870	1,040	-----	-----	-----	195	2,200	-----	-----	-----	5,430
10	1,075	20,409	2,820	1,040	-----	-----	-----	100	2,200	-----	-----	-----	2,235
11	340,653	249,279	779,892	167,182	228,790	316,825	174,536	158,839	137,152	163,539	162,590	61,684	704,107
12	281,267	183,129	680,800	98,751	169,345	245,952	109,482	111,202	79,687	111,971	114,790	27,251	649,238
13	337,816	172,119	484,114	168,848	202,777	250,908	171,011	186,276	261,041	143,253	304,305	127,302	180,596
14	149,906	65,913	184,958	72,441	95,188	115,441	73,261	69,543	124,195	47,007	89,670	39,882	85,270
15	932,609	1,062,204	1,390,589	1,242,313	1,177,512	1,083,980	1,015,914	742,601	1,074,816	737,826	986,121	660,127	959,110
16	608,571	823,275	852,899	1,043,277	909,625	783,662	780,243	490,256	800,325	527,411	712,985	515,116	619,402
17	347,140	263,500	514,347	318,657	342,082	328,390	273,095	284,602	319,999	197,383	306,385	164,433	287,207
18	198,081	181,382	270,979	242,946	241,309	210,726	192,488	131,547	214,369	118,369	170,007	107,114	173,972
19	2,115	26,270	1,527	17,877	3,671	23,412	20,838	16,241	9,362	10,279	3,373	10,746	4,100
20	-----	81	37	30	13	96	27	205	138	-----	-----	74	23
21	309	3,653	297	2,648	547	3,338	2,502	1,551	1,192	1,841	524	1,256	603
22	1,836	16,902	2,095	95,515	83,937	118,027	74,461	6,075	10,928	32,667	7,726	4,401	15,439
23	1	-----	7	5	3	10	-----	-----	2	13	10	2	5
24	3,758	36,285	3,895	237,704	202,255	267,660	174,862	12,748	21,132	67,529	16,059	7,930	34,635
25	4,698	4,618	6,923	1,252	1,961	3,023	934	3,446	2,228	1,034	2,580	1,221	11,725
26	5,804	5,006	6,183	7,864	5,087	10,889	10,628	2,056	2,638	5,830	11,707	3,011	6,552
27	1,237	753	1,255	1,109	1,774	1,452	921	531	1,156	741	1,729	449	918
28	32,378	13,824	35,834	10,816	23,679	20,370	12,608	16,303	24,980	16,096	65,872	12,686	17,107
29	2,320	4,249	1,121	34,218	33,533	37,945	24,700	3,831	7,332	12,616	4,182	2,243	9,012
30	645,931	293,791	692,455	592,097	841,096	814,329	635,167	295,949	481,738	409,514	1,573,969	261,609	525,063
31	235,395	193,677	361,194	116,727	133,405	202,259	165,868	109,165	139,848	160,204	207,409	68,216	165,796

TABLE 2.—NUMBER, ACREAGE, AND VALUE OF FARMS CLASSIFIED BY TENURE; COLOR

[Comparative data for June 1, 1900, in italics.]

	Preble.	Putnam.	Richland.	Ross.	Sandusky.	Scioto.	Seneca.	Shelby.	
FARMS OPERATED BY OWNERS									
1	Number of farms.....	1,790	2,480	2,173	2,107	1,878	2,131	2,038	1,024
2	Number of farms in 1900.....	<i>1,912</i>	<i>2,639</i>	<i>2,400</i>	<i>2,242</i>	<i>1,845</i>	<i>2,025</i>	<i>2,204</i>	<i>1,821</i>
3	Per cent of all farms.....	54.1	71.5	66.6	65.5	63.8	73.6	60.9	59.7
4	Per cent of all farms in 1900.....	<i>62.0</i>	<i>74.7</i>	<i>70.2</i>	<i>67.9</i>	<i>64.8</i>	<i>76.9</i>	<i>63.7</i>	<i>63.8</i>
5	Land in farms..... acres	138,195	205,971	180,508	242,807	143,495	204,545	187,054	139,386
6	Improved land in farms..... acres	117,509	177,192	141,498	167,349	119,947	100,633	155,906	117,389
7	Value of land and buildings..... dollars	11,902,918	21,467,670	11,744,259	11,906,979	14,753,486	4,568,228	16,136,475	11,442,491
Degree of ownership:									
8	Farms consisting of owned land only.....	1,479	1,889	1,818	1,729	1,439	1,856	1,602	1,298
9	Farms consisting of owned and hired land.....	311	591	355	378	439	275	436	326
Color and nativity of owners:									
10	Native white.....	1,693	2,291	2,053	1,960	1,635	2,011	1,918	1,510
11	Foreign-born white.....	78	187	120	70	243	113	119	105
12	Negro and other nonwhite.....	19	2	.....	77	.....	7	1	9
FARMS OPERATED BY TENANTS									
13	Number of farms.....	1,483	981	1,051	1,047	1,051	727	1,281	1,078
14	Number of farms in 1900.....	<i>1,146</i>	<i>899</i>	<i>909</i>	<i>887</i>	<i>965</i>	<i>577</i>	<i>1,134</i>	<i>1,010</i>
15	Per cent of all farms.....	44.8	28.3	32.2	32.5	35.7	25.1	38.3	39.7
16	Per cent of all farms in 1900.....	<i>37.1</i>	<i>28.0</i>	<i>26.6</i>	<i>29.9</i>	<i>34.0</i>	<i>21.9</i>	<i>33.8</i>	<i>35.6</i>
17	Land in farms..... acres	124,026	85,808	113,830	146,036	101,595	65,461	145,611	106,273
18	Improved land in farms..... acres	104,445	75,089	88,760	113,425	84,731	34,510	121,154	90,427
19	Value of land and buildings..... dollars	10,208,945	9,192,785	7,290,747	9,705,546	9,970,878	2,118,826	12,302,459	8,842,535
Form of tenancy:									
20	Share tenants.....	1,346	635	894	737	780	467	1,051	877
21	Share-cash tenants.....	35	68	16	55	39	69	45	16
22	Cash tenants.....	95	209	134	196	228	171	176	153
23	Tenure not specified.....	7	69	7	59	4	20	9	32
Color and nativity of tenants:									
24	Native white.....	1,454	959	1,032	1,010	979	714	1,254	1,051
25	Foreign-born white.....	19	22	19	6	70	9	26	18
26	Negro and other nonwhite.....	10	.....	.....	31	2	4	1	9
FARMS OPERATED BY MANAGERS									
27	Number of farms.....	36	8	38	64	16	38	25	16
28	Number of farms in 1900.....	<i>27</i>	<i>10</i>	<i>110</i>	<i>72</i>	<i>34</i>	<i>33</i>	<i>15</i>	<i>10</i>
29	Land in farms..... acres	3,598	723	8,747	15,328	2,052	6,267	3,980	2,036
30	Improved land in farms..... acres	2,937	585	6,070	11,139	1,520	3,152	3,442	1,422
31	Value of land and buildings..... dollars	297,850	77,050	603,085	1,099,350	205,525	389,166	512,220	153,776
MORTGAGE DEBT REPORTS:									
For all farms operated by owners:									
32	Number free from mortgage debt.....	1,156	1,451	1,526	1,466	1,283	1,701	1,452	1,138
33	Number with mortgage debt.....	.....	1,013	632	626	583	422	567	474
34	Number with no mortgage report.....	9	16	15	15	12	8	19	12
For farms consisting of owned land only:									
35	Number reporting debt and amount.....	469	712	484	476	409	345	404	318
36	Value of their land and buildings..... dollars	2,960,094	6,364,610	2,350,154	2,343,632	2,860,940	659,929	2,929,970	2,025,333
37	Amount of mortgage debt..... dollars	1,025,230	1,555,678	698,259	659,871	780,213	181,279	897,218	504,272
38	Per cent of value of land and buildings.....	34.6	24.4	29.7	28.2	27.3	27.5	30.6	24.9

¹ No mortgage reports were secured for farms operated by tenants and managers. (See explanation in text.)

TABLE 3.—LIVE STOCK PRODUCTS, AND DOMESTIC ANIMALS

LIVE STOCK PRODUCTS									
Dairy Products									
1	Dairy cows on farms reporting dairy products..... number	8,866	10,764	11,347	6,404	9,174	5,226	12,014	9,673
2	Dairy cows on farms reporting milk produced..... number	8,836	10,454	10,259	6,131	8,530	4,885	10,283	7,959
3	Milk—Produced..... gallons	3,755,161	3,434,630	3,758,314	2,037,254	3,283,142	1,775,949	3,872,987	2,650,775
4	Sold..... gallons	168,369	57,692	892,578	114,944	214,962	261,616	259,929	699,345
5	Cream sold..... gallons	14,891	136,236	16,531	12,205	40,026	.....	34,059	75,757
6	Butter fat sold..... pounds	248,179	103,936	138,566	2,916	65,998	.....	148,883	73,278
7	Butter—Produced..... pounds	860,272	670,758	823,518	616,844	824,312	579,823	1,017,051	449,066
8	Sold..... pounds	576,473	307,989	508,075	345,427	524,702	349,603	691,758	312,162
9	Cheese—Produced..... pounds	1,685	21,636	5,040	300	300	.....	200	588
10	Sold..... pounds	1,595	7,460	4,900	300	300	.....	.....	400
11	Value of dairy products, excluding home use of milk and cream..... dollars	290,402	265,476	350,052	168,617	259,890	181,196	319,932	237,573
12	Receipts from sale of dairy products..... dollars	227,815	189,196	280,373	109,853	198,334	129,095	253,097	207,693
Poultry Products									
13	Poultry—Raised..... number	387,140	323,899	216,161	283,637	284,194	140,337	307,253	300,411
14	Sold..... number	145,392	148,275	94,140	91,780	140,436	58,030	153,529	127,874
15	Eggs—Produced..... dozens	1,050,252	1,821,438	1,071,662	988,346	942,961	571,544	1,213,856	1,125,641
16	Sold..... dozens	680,826	1,427,792	762,612	690,826	605,564	380,618	865,919	851,030
17	Value of poultry and eggs produced..... dollars	384,145	515,435	321,363	309,112	342,832	162,253	394,102	338,247
18	Receipts from sale of poultry and eggs..... dollars	204,671	358,841	203,442	173,843	210,986	95,492	253,408	213,091
Honey and Wax									
19	Honey produced..... pounds	3,249	7,371	4,650	12,219	8,312	15,682	15,275	5,470
20	Wax produced..... pounds	43	155	45	83	153	109	215	66
21	Value of honey and wax produced..... dollars	522	966	688	1,636	969	2,515	1,932	741
Wool, Mohair, and Goat Hair									
22	Wool, fleeces shorn..... number	5,427	13,260	46,093	13,628	17,873	827	50,803	6,040
23	Mohair and goat hair, fleeces shorn..... number	.....	46	.....	41	.....	2	.....	.....
24	Value of wool and mohair produced..... dollars	10,347	29,213	99,657	26,305	36,043	1,271	106,064	11,683
DOMESTIC ANIMALS SOLD OR SLAUGHTERED									
25	Calves—Sold or slaughtered..... number	3,932	2,623	4,983	1,714	4,160	2,452	5,200	4,044
26	Other cattle—Sold or slaughtered..... number	5,770	6,412	5,696	8,524	7,092	3,262	5,529	6,157
27	Horses, mules, and asses and burros—Sold..... number	1,474	1,825	912	919	1,189	616	1,703	1,273
28	Swine—Sold or slaughtered..... number	61,825	65,618	32,510	57,394	36,651	10,756	50,784	39,638
29	Sheep and goats—Sold or slaughtered..... number	3,029	8,415	21,221	10,699	9,140	583	26,469	2,916
30	Receipts from sale of animals..... dollars	1,280,000	1,272,252	740,487	1,174,045	917,474	226,982	1,149,828	735,027
31	Value of animals slaughtered..... dollars	194,041	197,179	200,033	185,943	181,096	111,446	229,601	187,099

STATISTICS OF AGRICULTURE.

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AND NATIVITY OF FARMERS; AND MORTGAGE DEBT, BY COUNTIES: APRIL 15, 1910—Continued.

[Comparative data for June 1, 1900, in italics.]

	Stark.	Summit.	Trumbull.	Tuscarawas.	Union.	Van Wert.	Vinton.	Warren.	Washing- ton.	Wayne.	Williams.	Wood.	Wyandot.
1	3,516	2,132	3,646	2,373	2,013	1,974	1,564	1,493	3,470	2,587	1,959	2,615	1,544
2	<i>3,091</i>	<i>1,963</i>	<i>3,457</i>	<i>2,772</i>	<i>2,037</i>	<i>2,374</i>	<i>1,669</i>	<i>1,441</i>	<i>3,695</i>	<i>2,689</i>	<i>2,044</i>	<i>3,067</i>	<i>1,680</i>
3	72.5	72.1	81.8	79.2	72.6	67.6	85.8	55.6	82.9	65.4	67.3	60.0	66.5
4	68.8	68.4	79.6	77.4	71.1	70.5	79.9	67.3	82.5	68.2	72.1	64.1	70.3
5	206,816	139,751	281,317	246,289	180,879	163,244	167,706	126,152	304,670	191,441	164,921	201,615	152,975
6	170,306	101,255	195,166	159,909	159,648	143,200	112,239	104,670	216,004	154,278	132,642	171,739	132,159
7	18,583,056	12,009,331	15,236,644	11,817,264	14,107,984	16,519,009	2,637,766	8,838,148	10,118,984	15,679,726	12,104,489	21,391,387	12,662,619
8	3,273	1,946	3,320	2,465	1,731	1,532	1,430	1,316	3,078	2,320	1,582	2,043	1,170
9	243	186	326	413	282	442	134	177	392	267	377	572	374
10	3,152	1,838	3,305	2,592	1,951	1,870	1,549	1,386	3,220	2,358	1,866	2,239	1,451
11	360	294	339	286	54	87	9	92	139	229	93	375	92
12	4	2	2	8	8	17	6	15	111	111	1	1	1
13	1,279	779	765	729	748	931	234	1,159	699	1,329	938	1,702	751
14	<i>1,346</i>	<i>840</i>	<i>849</i>	<i>761</i>	<i>821</i>	<i>978</i>	<i>358</i>	<i>1,030</i>	<i>759</i>	<i>1,220</i>	<i>773</i>	<i>1,671</i>	<i>681</i>
15	26.4	26.3	17.2	20.1	27.0	31.9	12.8	43.1	16.7	38.6	32.2	39.1	32.4
16	29.9	29.3	19.5	21.3	23.0	29.0	17.1	41.0	16.9	30.9	27.3	35.0	28.5
17	121,847	78,647	76,743	81,565	85,494	84,079	26,459	119,421	60,419	141,913	93,403	153,454	82,619
18	99,254	56,184	52,944	66,426	74,923	73,310	16,075	97,651	40,082	112,850	74,155	132,391	71,389
19	9,930,165	5,980,105	3,741,817	4,035,932	6,312,555	8,289,735	346,714	8,128,616	2,205,851	10,704,842	6,631,853	15,133,770	6,738,653
20	717	433	267	424	307	695	134	902	428	992	642	1,282	523
21	27	14	46	14	72	48	12	46	19	29	36	47	46
22	395	319	444	218	330	173	76	201	162	275	244	359	179
23	140	13	8	73	39	15	12	10	90	33	16	14	3
24	1,179	688	702	709	735	913	232	1,118	670	1,277	931	1,588	744
25	100	90	61	20	10	13	-----	20	3	52	7	114	7
26	-----	1	2	-----	3	5	2	21	26	-----	-----	-----	-----
27	58	48	45	27	12	16	25	35	18	39	16	40	26
28	<i>58</i>	<i>68</i>	<i>39</i>	<i>48</i>	<i>29</i>	<i>15</i>	<i>62</i>	<i>43</i>	<i>23</i>	<i>54</i>	<i>16</i>	<i>43</i>	<i>23</i>
29	6,719	9,007	7,709	4,682	2,691	3,159	22,182	4,210	3,218	3,453	1,931	4,939	6,508
30	5,654	5,752	4,903	3,583	2,333	2,535	10,254	3,492	1,673	2,766	1,544	4,367	5,242
31	949,585	894,625	854,815	346,485	242,505	310,300	423,440	381,530	82,450	270,503	156,740	528,670	476,550
32	2,561	1,507	2,614	2,177	1,271	1,158	1,294	968	2,718	1,912	1,253	1,836	1,063
33	923	604	937	695	735	770	267	517	732	659	633	762	465
34	32	21	45	6	7	46	3	8	20	16	18	17	11
35	791	516	850	573	602	526	227	402	607	565	507	518	303
36	3,900,180	2,662,860	3,332,213	2,090,640	4,195,467	4,130,269	350,542	2,214,622	1,390,948	3,198,783	2,742,211	4,135,365	2,221,892
37	1,142,337	818,620	1,058,079	635,058	1,100,914	1,231,517	92,149	754,399	391,717	875,266	759,444	1,220,239	569,283
38	29.3	30.7	31.8	30.4	27.7	29.8	26.3	34.1	28.2	27.4	27.7	29.7	25.6

SOLD OR SLAUGHTERED ON FARMS, BY COUNTIES: 1909—Continued.

1	18,516	13,437	20,692	13,040	9,761	7,868	3,524	8,826	10,173	15,521	10,868	11,508	6,601
2	15,569	10,813	18,908	12,829	8,164	7,163	3,424	8,217	9,680	13,803	9,780	9,974	6,479
3	6,377,782	5,910,179	8,587,354	4,964,047	3,017,553	2,213,021	1,128,470	3,144,363	3,272,634	5,259,000	4,271,047	3,693,303	2,328,691
4	2,547,098	4,643,707	6,377,371	1,899,764	1,829,215	98,519	24,244	1,682,403	276,411	635,124	2,124,664	461,231	135,750
5	31,016	18,724	18,840	11,331	8,994	19,127	12	22,268	7,844	119,109	23,300	44,424	8,754
6	159,234	166,842	19,746	783	70,611	63,151	-----	24,943	7,411	361,086	36,128	49,427	81,297
7	1,230,244	520,677	832,148	875,925	413,508	645,954	379,569	458,257	1,041,997	1,024,311	545,690	1,071,960	595,465
8	831,174	324,573	581,382	565,316	263,470	356,309	188,827	291,264	552,392	619,301	291,251	613,815	337,232
9	23,462	4,424	1,920	573	100	-----	-----	287	3,068	48,537	120	-----	191
10	16,148	2,800	1,300	13	-----	-----	-----	52	2,154	24,734	-----	-----	175
11	666,536	790,998	934,283	422,756	300,604	171,288	82,183	380,120	279,355	479,704	378,110	357,741	169,311
12	567,484	743,988	833,702	354,532	268,472	113,627	43,815	342,952	182,699	389,327	321,870	259,180	116,382
13	295,363	188,564	225,241	200,942	257,645	292,767	86,818	269,547	225,245	297,610	237,999	451,370	248,796
14	124,209	80,608	109,188	85,133	105,376	128,792	28,409	94,544	88,863	133,302	122,366	188,328	111,593
15	1,366,277	720,517	1,155,999	936,095	1,213,044	1,279,758	443,012	825,493	1,385,633	1,697,817	1,476,942	1,571,281	1,009,630
16	885,295	420,398	798,661	621,230	972,801	986,363	298,844	548,586	1,051,076	1,205,193	1,151,344	1,078,190	747,862
17	424,185	256,205	363,986	270,355	348,026	369,539	116,930	288,228	371,318	480,741	404,472	320,046	316,105
18	249,152	138,294	230,302	162,107	234,630	243,880	67,771	153,463	247,816	324,570	291,975	500,441	203,168
19	3,065	6,422	16,660	8,998	7,230	8,385	7,351	1,710	37,206	6,904	9,199	15,573	5,823
20	6	77	80	108	35	66	5	25	64	32	120	131	68
21	531	844	1,770	1,386	1,080	1,129	1,178	327	5,107	918	1,058	1,529	720
22	16,693	4,182	14,777	36,480	43,349	12,016	23,727	6,089	42,809	20,185	29,675	12,320	73,362
23	14	9	81	1	3	1	3	17	-----	-----	-----	-----	110
24	34,960	9,087	32,022	80,829	88,756	26,360	47,657	11,908	97,552	42,465	61,782	25,097	154,674
25	11,080	8,804	13,559	6,732	3,350	2,315	663	4,119	3,563	7,028	4,825	5,170	2,074
26	7,466	4,412	9,650	8,326	6,345	4,632	4,836	5,565	6,215	9,739	6,295	10,206	6,314
27	1,815	596	1,129	1,275	1,960	1,687	399	942	782	3,005	1,405	1,305	1,317
28	30,964	12,527	16,708	23,659	67,179	45,026	6,052	46,671	13,994	40,596	39,749	51,906	48,710
29	7,851	1,918	7,196	14,535	35,671	8,312	8,009	2,593	8,991	16,744	22,448	9,938	43,213
30	661,436	304,312	633,195	598,530	1,502,334	904,651	247,071	921,297	353,042	1,326,037	899,305	1,236,752	1,261,417
31	445,213	165,665	192,267	280,319	134,111	160,663	67,595	127,654	172,306	286,081	166,894	231,385	132,518

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND

		THE STATE.	Adams.	Allen.	Ashland.	Ashtabula.	Athens.
VALUE OF ALL CROPS							
1	Total.....	dollars.. 230,337,961	2,488,964	2,425,973	2,679,758	2,852,224	1,121,685
2	Cereals.....	dollars.. 137,907,934	863,974	1,565,890	1,640,810	1,040,867	500,330
3	Other grains and seeds.....	dollars.. 1,462,286	5,681	31,840	27,806	6,883	831
4	Hay and forage.....	dollars.. 42,357,364	203,147	534,014	676,987	950,180	316,370
5	Vegetables.....	dollars.. 20,875,927	158,305	154,672	144,495	434,109	155,697
6	Fruits and nuts.....	dollars.. 7,858,204	51,122	46,117	53,742	177,425	68,894
7	All other crops.....	dollars.. 19,876,316	1,206,735	93,440	135,918	222,760	79,563
SELECTED CROPS (acres and quantity)							
8	Cereals:						
9	Total.....	acres.. 7,649,873	65,818	100,285	83,350	64,019	29,623
10	Corn.....	bushels.. 247,749,763	1,455,645	3,146,354	2,657,300	1,858,516	793,562
11	Oats.....	acres.. 3,916,050	45,467	51,293	29,837	19,837	20,300
12	Wheat.....	bushels.. 157,513,300	1,214,627	1,984,727	1,199,917	602,913	637,166
13	Barley.....	acres.. 1,787,496	1,601	30,156	23,025	29,848	1,858
14	Wheat.....	bushels.. 57,591,046	29,883	894,916	845,660	981,856	40,327
15	Barley.....	acres.. 1,827,932	17,777	14,541	29,809	5,087	7,318
16	Buckwheat.....	bushels.. 30,663,704	202,361	195,319	601,026	89,689	114,227
17	Barley.....	acres.. 24,075	4	1,177	71	55	2
18	Buckwheat.....	bushels.. 569,279	60	29,318	1,773	1,260	20
19	Rye.....	acres.. 26,073	6	11	84	8,146	78
20	Rye.....	bushels.. 483,410	20	177	469	166,905	1,023
21	Rye.....	acres.. 67,912	870	3,107	563	1,040	70
22	Rye.....	bushels.. 921,919	8,634	41,897	8,309	15,890	794
23	Other grains:						
24	Dry edible beans.....	acres.. 1,139	7	4	3	26	13
25	Dry edible beans.....	bushels.. 13,665	145	17	57	388	224
26	Hay and forage:						
27	Total.....	acres.. 3,306,461	23,626	39,664	46,421	69,767	29,399
28	All tame or cultivated grasses.....	tons.. 4,521,409	24,809	55,571	66,124	124,586	31,901
29	Timothy alone.....	acres.. 3,176,423	21,800	39,413	45,800	65,652	29,176
30	Timothy and clover mixed.....	acres.. 4,061,694	21,691	55,229	64,218	85,982	31,616
31	Clover alone.....	acres.. 2,348,660	11,772	24,149	23,367	38,575	14,849
32	Alfalfa.....	acres.. 1,016,966	8,675	32,775	31,333	49,334	16,000
33	Alfalfa.....	tons.. 1,346,347	8,426	13,127	18,251	26,156	9,920
34	Millet or Hungarian grass.....	acres.. 151,048	972	19,168	26,677	35,520	10,328
35	Millet or Hungarian grass.....	tons.. 290,492	1,024	2,480	4,136	463	435
36	Other tame or cultivated grasses.....	acres.. 29,439	140	325	26	682	569
37	Other tame or cultivated grasses.....	tons.. 70,126	347	684	51	29	1,615
38	Wild, salt, or prairie grasses.....	acres.. 8,005	211	61	2	125	232
39	Wild, salt, or prairie grasses.....	tons.. 12,104	263	88	2	213	342
40	Grains cut green.....	acres.. 53,005	90	38	18	317	3,067
41	Grains cut green.....	tons.. 44,965	66	54	18	204	2,762
42	Coarse forage.....	acres.. 2,471	.....	.....	87	146	71
43	Coarse forage.....	tons.. 2,945	.....	.....	99	220	71
44	Root forage.....	acres.. 5,437	1	46	102	60	113
45	Root forage.....	tons.. 11,970	2	50	207	144	153
46	Special crops.....	acres.. 121,967	1,765	204	432	3,909	39
47	Special crops.....	tons.. 443,512	3,116	288	1,600	38,240	61
48	Potatoes.....	acres.. 163	.....	1	.....	.....	.....
49	Potatoes.....	bushels.. 1,288	.....	4	.....	.....	.....
50	All other vegetables.....	acres.. 212,808	1,026	1,568	2,008	5,695	1,271
51	Tobacco.....	bushels.. 20,322,984	106,202	107,470	190,165	498,056	123,169
52	Tobacco.....	acres.. 124,604	938	1,064	453	1,526	961
53	Sugar beets.....	pounds.. 106,477	8,946	.....	.....	1	4
54	Sugar beets.....	acres.. 88,603,308	8,121,165	.....	.....	820	3,140
55	Maple trees.....	number.. 7,036	8	.....	.....	.....	.....
56	Maple sugar (made).....	pounds.. 63,696	.....	.....	.....	.....	.....
57	Maple sirup (made).....	gallons.. 3,170,828	2,533	12,703	80,603	289,677	1,153
58	Maple sirup (made).....	acres.. 257,592	15	970	13,333	26,636	1,070
59	Maple sirup (made).....	gallons.. 1,323,431	1,039	4,062	29,788	95,956	333
FRUITS AND NUTS							
60	Orchard fruits:						
61	Total.....	trees.. 14,933,813	135,172	132,706	122,237	738,893	237,893
62	Apples.....	bushels.. 6,711,208	55,564	56,170	53,421	177,134	78,080
63	Peaches and nectarines.....	trees.. 8,504,886	84,368	77,883	65,421	674,210	154,069
64	Pears.....	bushels.. 4,663,752	44,117	49,991	29,296	125,143	62,928
65	Plums and prunes.....	trees.. 3,133,368	30,121	18,056	33,460	34,601	47,258
66	Cherries.....	bushels.. 1,036,340	6,354	1,831	14,691	31,292	6,706
67	Quinces.....	trees.. 899,019	4,356	7,784	4,368	15,475	6,442
68	Small fruits.....	bushels.. 374,871	2,012	1,145	2,543	11,570	3,279
69	Small fruits.....	trees.. 1,001,734	7,701	17,396	7,186	6,150	12,883
70	Small fruits.....	bushels.. 215,657	1,371	1,681	2,533	3,988	853
71	Small fruits.....	trees.. 1,144,271	6,284	10,099	9,995	6,944	13,805
72	Small fruits.....	bushels.. 338,644	1,273	1,140	3,720	3,987	3,732
73	Small fruits.....	trees.. 245,040	2,262	1,301	1,788	1,491	3,423
74	Small fruits.....	bushels.. 81,101	424	370	637	1,150	582
75	Small fruits.....	vines.. 8,326,800	4,999	23,368	5,676	153,190	3,649
76	Small fruits.....	pounds.. 43,933,207	124,294	248,586	72,273	1,483,110	52,777
77	Small fruits:						
78	Total.....	acres.. 11,591	4	52	35	270	60
79	Strawberries.....	quarts.. 15,721,023	4,620	38,122	61,400	445,818	65,023
80	Raspberries and loganberries.....	acres.. 4,706	1	15	22	139	21
81	Blackberries and dewberries.....	quarts.. 8,501,065	1,573	21,346	41,358	297,886	27,687
82	Nuts.....	acres.. 3,869	1	26	5	103	20
83	Nuts.....	quarts.. 4,029,480	905	7,656	7,596	119,747	18,024
84	Nuts.....	acres.. 2,425	1	2	6	18	14
85	Nuts.....	quarts.. 2,465,407	1,297	1,452	9,326	19,892	14,962
86	Nuts.....	trees.. 21,702	75	117	103	4,746	37
87	Nuts.....	pounds.. 559,093	3,930	680	4,556	80,076	1,400

¹ Less than 1 acre.

TABLE 5.—SELECTED FARM EXPENSES

1	Labor.....	Farms reporting.....	145,515	1,574	1,571	1,455	2,599	1,237
2	Labor.....	Cash expended.....	20,426,904	105,246	184,390	129,131	274,082	105,438
3	Labor.....	Rent and board furnished.....	5,204,281	32,684	47,888	38,087	70,720	25,638
4	Fertilizer.....	Farms reporting.....	118,888	2,380	428	1,694	3,256	1,088
5	Fertilizer.....	Amount expended.....	4,180,485	74,981	12,957	55,182	105,347	26,524
6	Feed.....	Farms reporting.....	95,050	1,071	708	816	2,873	1,140
7	Feed.....	Amount expended.....	8,445,761	42,861	63,780	41,145	277,982	73,019
8	Receipts from sale of feedable crops.....	dollars..	31,396,130	74,371	423,118	350,847	152,904	65,704

STATISTICS OF AGRICULTURE.

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ACREAGE AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909.

	Auglaize.	Belmont.	Brown.	Butler.	Carroll.	Champaign.	Clark.	Clermont.	Clinton.	Columbiana.	Coshocton.	Crawford.	Cuyahoga.
1	2,610,524	2,174,913	2,814,507	3,091,651	1,578,490	2,988,407	3,150,050	2,442,549	3,095,185	2,714,035	2,131,612	2,384,850	4,012,353
2	1,894,225	981,556	1,158,549	2,246,007	834,085	2,370,879	1,981,610	1,039,712	2,524,475	1,229,252	1,236,073	1,824,706	926,642
3	38,977	2,420	4,264	2,263	4,824	14,202	6,327	976	15,224	4,245	11,500	42,419	4,326
4	361,617	567,536	263,157	395,561	420,172	330,383	367,095	439,028	302,108	752,969	504,078	691,568	700,826
5	126,626	287,453	174,074	215,695	129,066	134,152	224,558	251,247	141,087	334,513	184,700	163,130	1,300,549
6	41,510	123,745	48,431	23,690	100,533	50,875	66,380	119,657	37,972	239,771	84,989	38,799	610,615
7	147,569	212,203	1,166,032	208,435	89,810	87,916	504,080	591,929	74,319	153,285	110,272	124,228	469,395
8	114,831	51,664	83,057	127,166	46,829	122,504	108,450	72,004	124,661	67,484	68,612	97,130	40,793
9	3,545,405	1,569,102	1,963,325	4,068,012	1,300,903	4,794,463	3,796,645	1,839,804	4,523,680	1,904,759	2,029,135	3,273,629	1,599,961
10	56,557	25,790	54,808	69,902	16,274	69,793	65,863	48,250	78,154	21,432	31,970	42,360	13,527
11	2,264,494	1,093,613	1,560,259	3,059,279	651,573	3,484,119	3,008,773	1,434,749	3,745,541	800,614	1,303,809	1,717,991	573,219
12	31,269	10,560	5,092	15,759	12,422	34,718	17,477	6,790	6,478	23,071	12,110	30,038	19,142
13	872,709	262,894	103,849	460,231	424,794	1,085,200	481,838	158,288	166,753	705,086	325,372	1,110,764	829,503
14	26,141	14,892	18,733	40,612	14,835	16,649	37,797	14,524	37,347	22,318	24,195	24,812	7,107
15	395,028	206,122	246,842	528,296	220,057	208,877	290,526	212,409	573,142	386,727	396,283	437,744	175,042
16	199	46	18	622	180	187	85	11	39	.....	8	127	67
17	4,565	948	160	16,596	.....	3,215	1,769	256	1,030	.....	160	2,987	1,906
18	14	102	26	4	130	4	19	2	8	.....	108	45	40
19	227	1,335	207	117	2,187	54	234	29	86	.....	2,506	976	991
20	651	248	4,380	244	166	1,157	1,207	2,424	2,635	.....	483	214	905
21	8,382	3,384	52,008	3,024	2,255	12,944	13,485	33,995	37,128	.....	6,786	2,322	19,170
22	6	16	19	23	(1)	19	15	11	28	.....	8	1	20
23	100	53	262	123	5	286	187	156	96	.....	127	10	233
24	27,917	49,936	26,974	32,088	42,399	26,911	29,848	39,248	28,149	.....	58,292	47,248	44,051
25	40,951	58,257	28,488	39,580	42,173	38,866	42,754	45,625	36,909	.....	81,371	53,787	66,123
26	26,564	49,287	26,654	28,483	41,984	24,507	28,137	37,337	23,312	.....	56,367	47,207	43,900
27	37,493	52,196	27,457	33,878	41,293	33,384	37,564	40,611	29,964	.....	61,832	53,691	65,366
28	13,404	40,289	20,804	19,270	35,255	11,281	16,151	31,111	15,651	.....	40,540	34,356	24,882
29	18,904	41,811	21,391	22,608	34,105	14,986	21,367	32,648	19,489	.....	42,968	37,863	36,841
30	9,742	7,681	4,087	3,810	5,945	8,752	9,743	3,090	5,980	.....	14,717	10,949	17,086
31	13,608	8,766	4,291	4,055	6,256	11,178	12,802	3,406	7,888	.....	17,434	13,118	25,659
32	2,842	747	504	3,847	760	3,012	1,521	618	1,153	.....	925	1,651	1,862
33	3,807	938	609	3,821	881	3,439	1,753	698	1,549	.....	1,235	2,146	2,735
34	410	133	171	1,172	8	1,875	637	1,264	308	.....	40	176	56
35	945	233	273	2,895	11	3,636	1,523	2,619	737	.....	77	458	120
36	112	129	.....	229	25	42	33	125	72	.....	21	53	14
37	176	202	.....	364	34	85	62	167	87	.....	31	84	11
38	54	303	1,088	155	11	45	52	1,129	143	.....	121	22	157
39	53	246	893	135	6	60	57	1,073	214	.....	86	22	134
40	.....	.....	.....	27	66	8	11	10	.....	.....	8	9	3
41	.....	.....	.....	33	58	5	16	9	.....	.....	8	2	41
42	15	96	154	49	5	39	117	282	20	.....	48	16	193
43	15	359	237	54	4	76	159	1,087	107	.....	65	18	.....
44	1,331	552	166	3,627	344	2,357	1,583	1,619	4,817	.....	1,899	16	1,994
45	3,412	5,695	774	5,605	818	5,401	5,015	3,918	6,838	.....	19,466	76	20,345
46	7	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	20
47	31	7	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	61
48	1,544	1,910	1,185	2,219	1,674	1,158	2,034	2,123	875	.....	4,687	1,749	10,151
49	113,231	180,989	112,061	195,954	166,102	119,320	192,839	181,084	84,501	.....	448,133	166,706	1,041,469
50	740	1,736	1,433	1,433	428	1,269	1,303	2,419	1,565	.....	1,166	875	5,578
51	9	1,307	8,301	2,030	.....	69	303	4,353	28	.....	(1)	(1)	(1)
52	11,506	1,456,359	8,195,291	1,481,042	.....	64,708	236,044	4,304,464	23,707	.....	110	205	30
53	1	(1)	.....	2	(1)	(1)	(1)	(1)	(1)	.....	2	6	1
54	14	5	.....	7	1	2	.....	3	.....	.....	4	22	53
55	9,813	1,994	140	1,380	1,480	15,025	448	582	30,709	.....	37,750	1,258	29,020
56	225	10	40	.....	25	9,310	.....	.....	240	.....	131	20	4,986
57	4,094	927	45	452	748	6,349	236	397	16,731	.....	16,241	838	30,925
58	91,594	290,091	117,905	57,447	145,325	107,817	124,554	240,577	91,405	.....	318,798	212,673	260,304
59	59,780	71,513	52,979	13,704	126,199	51,602	49,329	108,767	31,091	.....	182,802	89,802	187,600
60	51,759	144,883	68,509	26,472	90,434	57,306	54,781	121,609	50,601	.....	194,355	115,487	148,853
61	54,808	41,958	36,707	4,259	96,744	38,284	30,050	70,190	18,155	.....	121,162	52,607	125,459
62	11,027	51,469	27,283	11,131	25,589	24,990	23,162	52,574	10,597	.....	40,523	64,589	20,724
63	774	14,259	8,611	4,047	17,175	6,036	9,204	14,994	3,423	.....	15,456	28,328	1,719
64	7,454	16,623	5,431	5,052	3,754	5,587	11,034	48,313	4,760	.....	13,793	8,862	4,683
65	1,396	2,286	3,670	1,578	1,532	1,626	1,395	18,840	1,585	.....	7,339	8,828	45,084
66	13,174	37,894	7,078	4,606	10,695	8,612	12,402	8,874	15,727	.....	26,270	10,077	36,043
67	1,862	1,580	1,344	509	4,551	1,470	1,265	1,272	3,978	.....	17,504	1,461	23,359
68	6,476	26,035	7,267	8,313	12,542	9,095	20,259	9,623	7,427	.....	31,011	11,104	9,817
69	751	6,285	1,773	2,703	5,349	3,519	6,930	1,786	3,058	.....	19,799	3,249	20,630
70	976	13,254	2,267	1,775	2,289	2,185	2,702	4,519	2,236	.....	3,733	3,930	9,338
71	187	5,147	866	603	845	664	483	1,730	871	.....	1,440	1,615	5,164
72	12,131	69,808	17,286	12,042	3,239	4,440	4,819	69,020	4,317	.....	14,975	5,515	3,037,094
73	189,401	428,388	225,672	54,786	109,490	59,885	41,681	219,789	91,493	.....	234,359	116,348	12,007,878
74	29	277	35	33	104	45	125	361	39	.....	556	49	1,300
75	26,695	409,035	38,857	27,400	147,403	44,387	104,860	340,233	25,004	.....	951,554	79,944	2,411,089
76	11	102	5	17	33	21	57	74	10	.....	184	24	476
77	9,170	194,017	6,790	15,586	79,416	27,222	57,049	78,049	10,118	.....	526,963	57,824	1,078,119
78	6	117	3	8	27	11	20	129	8	.....	192	17	521
79	5,469	145,252	972	5,492	13,779	8,191	15,696	119,372	4,719	.....	230,113	15,829	827,383
80	5	49	26	4	44	9	42	154	16	.....	174	6	219
81	5,586	57,464	29,823	4,120	54,069	5,779	24,743	138,941	7,503	.....	189,887	4,791	348,547
82	61	164	115	.....	425	2	127	209	4	.....	149	18	180
83	2,890	1,630	3,085	.....	11,193	360	3,000	3,950	400	.....	7,006	1,660	5,815

AND RECEIPTS, BY COUNTIES: 1909.

1	1,513	2,039	1,556	1,593	1,050	1,636	1,085	1,865	1,603	2,063	1,593	1,562	2,668
2	195,051	182,758	124,861	289,015	82,938	321,278	481,627	170,978	271,093	240,008	142,000	180,689	681,930
3	70,472	60,003	38,495	106,465	27,964	47,885	62,139	38,608	59,794	84,161	35,813	53,522	176,021
4	412	1,442	1,933	570	1,380	684	792	1,639	1,594	2,346	1,602	1,374	2,643
5	12,209	35,976	50,626	24,844	37,244	29,218							

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND ACREAGE

		Darke.	Defiance.	Delaware.	Erie.	Fairfield.	Fayette.	Franklin.	Fulton.
VALUE OF ALL CROPS									
1	Total.....	dollars.. 5,642,320	2,577,974	2,447,036	1,661,811	3,191,739	3,129,313	4,018,549	2,917,481
2	Cereals.....	dollars.. 3,292,209	1,670,074	1,437,351	928,107	2,153,809	2,786,980	2,475,957	1,981,692
3	Other grains and seeds.....	dollars.. 10,708	28,393	14,077	4,341	15,287	9,182	10,739	42,173
4	Hay and forage.....	dollars.. 519,598	546,045	741,151	239,684	626,350	200,574	711,611	549,358
5	Vegetables.....	dollars.. 233,237	107,983	147,109	257,338	210,884	81,069	515,405	159,821
6	Fruits and nuts.....	dollars.. 102,399	46,716	38,368	175,332	117,424	20,103	69,150	56,891
7	All other crops.....	dollars.. 1,484,169	178,763	68,980	57,009	67,985	31,405	235,687	127,566
SELECTED CROPS (acres and quantity)									
Cereals:									
8	Total.....	acres... 186,649	100,705	81,335	54,095	108,985	130,422	130,867	98,666
9	bushels.. 6,545,954	3,394,243	2,698,429	1,486,366	3,513,211	4,800,004	4,319,947	3,656,886	
10	Corn.....	acres... 104,367	42,817	50,687	19,454	60,864	82,107	78,684	46,779
11	bushels.. 4,768,207	1,658,627	2,103,973	609,080	2,640,238	3,841,506	3,314,077	2,035,130	
12	Oats.....	acres... 52,508	40,329	12,864	18,181	5,952	13,480	33,901	
13	bushels.. 1,392,375	1,429,200	343,675	505,780	116,872	157,879	370,915	1,210,305	
14	Wheat.....	acres... 28,559	15,707	15,687	15,022	42,716	41,674	36,736	14,336
15	bushels.. 367,256	267,280	224,044	340,924	749,320	792,023	608,184	334,393	
16	Barley.....	acres... 82	1,386	25	291	70	24	15	1,833
17	bushels.. 1,884	33,055	602	4,989	1,631	591	412	48,706	
18	Buckwheat.....	acres... 5	29	18	651	21	21	21	
19	bushels.. 59	407	214	11,585	280	280	280	11,610	
20	Rye.....	acres... 1,124	417	2,054	490	923	665	1,943	1,108
21	bushels.. 16,123	5,409	25,901	7,806	11,959	8,015	25,844	16,957	
Other grains:									
22	Dry edible beans.....	acres... 10	3	5	9	11	9	20	
23	bushels.. 200	20	80	89	177	151	282		
Hay and forage:									
24	Total.....	acres... 47,282	38,182	55,720	17,810	45,932	17,243	51,891	36,187
25	tons... 64,680	51,071	60,620	23,644	59,523	23,603	74,889	57,538	
26	All tame or cultivated grasses.....	acres... 35,803	37,556	55,066	17,601	45,709	17,187	50,940	35,311
27	tons... 46,700	49,849	76,080	22,381	59,077	23,523	68,793	49,735	
28	Timothy alone.....	acres... 11,826	28,069	34,734	8,669	30,069	8,261	35,618	16,746
29	tons... 15,947	38,018	46,389	10,822	38,459	10,724	47,050	24,010	
30	Timothy and clover mixed.....	acres... 17,211	6,312	16,816	6,529	14,689	7,321	11,221	14,547
31	tons... 23,070	8,041	23,887	8,299	19,278	10,414	15,149	19,528	
32	Clover alone.....	acres... 6,252	2,936	2,780	2,125	753	1,101	2,707	3,417
33	tons... 6,613	3,349	4,269	2,672	978	1,521	3,637	4,743	
34	Alfalfa.....	acres... 303	141	210	117	284	770	442	
35	tons... 750	338	1,156	510	278	2,032	1,188		
36	Millet or Hungarian grass.....	acres... 201	34	132	38	29	48	130	
37	tons... 310	50	180	47	46	84	198		
38	Other tame or cultivated grasses.....	acres... 10	64	190	30	52	172	93	
39	tons... 10	53	199	31	38	102	111	68	
40	Wild, salt, or prairie grasses.....	acres... 7	7	7	7	23	5	5	
41	tons... 5	5	5	5	30	56	124	59	
42	Grains cut green.....	acres... 95	7	151	20	80	80	389	146
43	tons... 123	15	357	90	95	80	827	802	
44	Coarse forage.....	acres... 11,384	607	503	189	120	5,707	7,572	
45	tons... 17,857	1,152	4,182	1,173	321	10	10		
46	Root forage.....	acres... 5	(¹)	(¹)	(¹)	(¹)	(¹)	80	
47	tons... 50	1	1	1	1	1	1		
Special crops:									
48	Potatoes.....	acres... 2,582	1,108	1,105	5,082	1,740	543	3,771	1,975
49	bushels.. 217,559	103,237	120,003	457,967	160,055	56,579	419,764	227,628	
50	All other vegetables.....	acres... 1,595	772	967	1,620	1,662	1,107	3,926	883
51	Tobacco.....	acres... 1	1	1	1	2	(¹)	1	
52	pounds.. 16,618,500	200	1,960	600	355	1	843		
53	Sugar beets.....	acres... 1	488	8	9,174	8	4,091		
54	tons... 9	4,781	210	1,050	360	15	15		
55	Maple trees.....	number.. 6,680	12,406	28,956	9,810	5,400	90	729	4,091
56	Maple sugar (made).....	pounds.. 320	145	210	1,050	360	15	15	
57	Maple sirup (made).....	gallons.. 1,949	5,138	13,811	4,732	2,337	60	489	1,566
FRUITS AND NUTS									
Orchard fruits:									
58	Total.....	trees... 198,752	93,232	138,483	195,335	179,378	64,717	156,192	120,045
59	bushels.. 142,491	51,895	87,866	100,366	82,983	13,024	62,449	71,544	
60	Apples.....	trees... 126,138	60,499	87,079	72,617	100,304	32,751	91,828	75,479
61	bushels.. 123,481	40,540	34,579	67,307	66,397	5,596	61,151	61,151	
62	Peaches and nectarines.....	trees... 25,412	17,092	20,617	90,313	27,870	7,788	19,785	23,735
63	bushels.. 7,831	4,851	748	20,761	6,015	2,233	2,044	3,076	
64	Pears.....	trees... 9,794	5,427	7,825	13,830	9,297	5,405	14,829	5,538
65	bushels.. 1,771	3,330	1,017	8,893	1,941	900	3,351	2,781	
66	Plums and prunes.....	trees... 14,501	4,042	9,082	5,444	16,984	7,951	14,842	5,308
67	bushels.. 2,396	645	370	1,362	1,794	918	1,451	1,188	
68	Cherries.....	trees... 20,072	5,927	10,944	11,799	15,136	8,373	10,909	9,536
69	bushels.. 5,932	2,423	613	1,450	4,016	2,893	3,135	3,216	
70	Quinces.....	trees... 2,713	227	2,898	1,311	9,688	2,397	3,939	400
71	bushels.. 1,034	101	534	583	2,803	482	912	110	
72	Grapes.....	vines... 9,909	13,528	5,319	1,160,917	40,176	3,026	10,798	14,068
73	pounds.. 193,624	168,786	67,304	4,323,035	247,817	43,695	135,414	156,268	
Small fruits:									
74	Total.....	acres... 27	52	44	320	346	13	114	70
75	quarts.. 21,439	69,316	60,273	435,181	506,287	18,735	125,586	82,980	
76	Strawberries.....	acres... 12	25	25	97	112	9	52	28
77	quarts.. 12,504	39,799	42,921	171,039	222,159	15,570	73,133	41,247	
78	Raspberries and loganberries.....	acres... 7	10	11	95	133	1	16	18
79	quarts.. 4,288	12,905	9,725	85,279	178,546	624	8,475	14,708	
80	Blackberries and dewberries.....	acres... 2	15	5	118	95	2	29	21
81	quarts.. 796	13,607	5,143	162,224	98,301	1,503	32,282	22,755	
82	Nuts.....	trees... 52	44	11	509	46	1	67	31
83	pounds.. 720	4,700	.....	9,430	3,770	40	2,215	570	

¹ Less than 1 acre.

TABLE 5.—SELECTED FARM EXPENSES

1	Labor.....	Farms reporting.....	2,587	1,374	1,778	1,174	2,275	1,336	2,454	1,514
2	Cash expended.....	dollars.. 233,760	157,579	234,138	218,997	282,518	409,571	579,978	175,494	
3	Rent and board furnished.....	dollars.. 71,217	41,482	47,019	67,180	62,970	58,816	115,503	43,003	
4	Fertilizer.....	Farms reporting.....	1,114	265	1,270	1,004	2,364	1,073	1,240	907
5	Amount expended.....	dollars.. 32,115	6,585	35,746	42,233	84,759	60,743	52,254	23,570	
6	Feed.....	Farms reporting.....	1,261	996	996	1,058	612	1,371	886	
7	Amount expended.....	dollars.. 72,677	42,095	94,232	81,102	171,060	113,684	192,117	55,573	
8	Receipts from sale of feedable crops.....	dollars.. 1,036,687	648,543	344,615	199,119	597,452	461,819	732,153	391,348	

STATISTICS OF AGRICULTURE.

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AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909—Continued.

	Gallia.	Geauga.	Greene.	Guernsey.	Hamilton.	Hancock.	Hardin.	Harrison.	Henry.	Highland.	Hocking.	Holmes.	Huron.
1	1,391,232	1,739,295	2,914,748	1,583,748	3,095,952	3,245,777	3,217,977	1,454,105	3,287,757	2,709,362	895,593	2,430,535	3,138,087
2	534,663	645,172	2,280,825	734,700	974,197	2,136,900	1,938,377	657,531	2,651,798	1,975,214	471,105	1,536,622	1,961,565
3	1,271	1,147	3,240	1,592	9,189	51,782	36,094	1,943	41,042	49,567	503	40,558	39,667
4	187,452	528,056	311,035	471,175	521,019	722,271	677,250	440,245	357,317	349,494	191,866	501,276	778,371
5	165,433	222,812	162,978	148,465	1,028,876	114,757	467,411	89,493	110,452	154,636	123,125	160,465	178,602
6	53,027	70,175	40,833	94,047	181,204	50,584	32,667	69,282	36,967	46,171	42,321	94,157	59,858
7	449,386	271,933	115,837	133,769	387,467	169,483	66,178	195,611	90,181	134,280	66,673	97,457	120,024
8	39,496	34,416	118,821	41,606	51,901	136,002	110,999	31,857	143,013	114,490	31,707	77,649	101,568
9	859,754	1,178,320	4,314,867	1,156,239	1,671,133	3,911,548	3,897,660	1,009,479	5,093,593	3,376,687	736,759	2,455,643	3,394,157
10	26,804	10,910	75,265	22,392	30,827	68,789	64,115	14,077	71,445	71,184	18,746	28,276	36,825
11	695,879	395,358	3,602,577	827,866	1,261,232	2,440,675	2,665,312	635,165	2,963,868	2,676,622	557,969	1,213,169	1,450,821
12	1,630	16,949	12,138	6,307	7,268	31,484	35,445	8,417	40,587	4,184	1,507	21,437	34,716
13	27,939	654,729	341,880	150,755	216,275	929,304	1,069,911	227,383	1,642,970	99,852	26,450	688,984	1,308,891
14	10,956	4,137	30,213	12,252	12,971	34,180	8,881	9,158	21,955	36,089	11,001	27,335	29,460
15	134,745	73,300	355,304	169,987	178,863	518,276	124,071	144,346	422,206	561,101	146,374	544,474	624,316
16	-----	7	77	27	162	324	141	42	2,433	166	8	19	133
17	-----	219	1,926	705	4,227	7,488	2,552	686	54,352	3,932	88	378	2,677
18	6	2,200	5	175	26	33	35	69	105	5	294	67	156
19	54	51,270	2,459	289	549	752	846	1,942	846	4,411	1,043	2,998	278
20	98	213	1,119	361	647	1,178	2,382	94	488	2,802	151	509	278
21	1,127	3,444	13,166	4,434	10,247	15,136	35,106	1,053	8,255	35,151	1,467	7,437	4,454
22	24	22	7	2	10	7	4	3	1	6	15	30	12
23	389	106	101	27	136	81	65	63	23	88	123	294	74
24	21,761	34,465	24,701	49,431	30,399	51,154	43,766	41,361	26,327	30,772	20,599	44,318	53,938
25	20,604	79,579	35,177	58,801	42,056	74,498	65,518	45,439	37,134	46,178	19,248	56,557	77,454
26	21,468	30,296	22,964	49,301	29,824	50,861	43,695	41,240	25,580	30,228	20,501	36,627	52,042
27	20,122	41,427	31,500	52,260	40,716	73,678	68,377	44,437	35,318	38,311	18,726	47,747	74,153
28	11,551	16,424	12,022	30,032	19,764	27,878	26,578	32,415	13,172	17,997	9,155	19,668	29,363
29	11,324	22,423	15,947	37,808	24,076	40,062	41,385	34,274	18,285	20,020	8,577	24,579	41,771
30	4,557	13,200	7,979	12,396	3,236	20,277	13,388	7,711	9,189	10,130	9,681	13,161	17,174
31	4,280	17,895	10,927	13,312	3,814	29,698	20,852	8,787	12,735	14,859	8,597	17,843	24,266
32	235	530	2,311	557	1,148	2,570	3,362	541	3,002	1,486	215	3,747	5,375
33	231	855	2,998	690	1,324	3,617	5,202	691	3,852	1,840	196	5,256	7,834
34	53	10	57	67	4,021	116	320	96	180	457	100	15	54
35	141	32	1,526	136	8,456	278	867	228	367	1,424	347	30	161
36	56	99	68	104	289	14	42	18	34	31	95	12	9
37	60	180	150	160	554	17	68	32	76	32	150	22	16
38	5,011	33	3	155	1,366	6	5	459	3	127	1,245	24	67
39	4,086	42	2	154	1,592	6	3	425	3	136	859	17	105
40	32	433	-----	5	30	95	1	-----	-----	1	2	31	30
41	15	605	-----	6	24	195	1	-----	-----	2	2	37	14
42	200	30	30	25	215	2	-----	21	-----	7	48	11	25
43	313	59	71	90	317	4	-----	28	-----	21	244	15	75
44	61	3,704	1,707	100	329	196	70	100	747	533	48	7,649	1,839
45	154	37,450	3,606	445	993	621	140	974	1,816	1,841	276	8,758	3,205
46	-----	2	-----	1	-----	-----	-----	-----	-----	3	-----	-----	2
47	-----	38	-----	6	-----	-----	-----	-----	-----	3	-----	-----	7
48	1,050	4,394	1,900	1,110	7,502	1,442	2,265	684	1,176	1,558	999	1,095	2,429
49	108,508	418,247	180,326	105,261	780,538	86,644	147,633	67,574	114,610	108,272	99,081	184,513	216,296
50	1,246	553	1,103	694	7,438	848	3,026	407	815	1,049	676	543	1,217
51	2,898	-----	585	351	638	(1)	3	-----	-----	310	1	(1)	-----
52	2,805,439	-----	362,950	367,190	689,807	33	2,340	-----	-----	306,353	705	390	-----
53	-----	1	(1)	(1)	1	386	-----	-----	364	1	(1)	1	-----
54	-----	2	2	5	5	3,781	-----	-----	3,585	5	4	9	-----
55	40	688,013	19,638	613	53	18,641	5,430	1,750	2,392	7,557	328	6,931	63,822
56	-----	27,472	595	-----	-----	480	400	203	150	375	-----	433	2,803
57	20	287,465	9,499	231	-----	6,752	2,727	998	1,003	3,894	168	3,685	22,992
58	273,610	113,565	81,439	206,154	247,682	129,022	115,534	128,555	117,736	130,566	115,413	163,360	120,337
59	60,493	96,116	26,454	98,177	105,409	55,790	35,709	71,117	41,134	48,289	47,461	122,437	73,359
60	205,553	79,931	45,282	125,188	70,933	80,832	66,610	72,037	79,551	78,751	76,987	81,242	76,875
61	54,798	76,462	14,165	59,231	26,173	50,016	30,866	45,050	33,786	32,539	38,504	79,708	64,211
62	41,059	5,914	14,842	46,476	52,088	17,908	20,827	26,238	19,826	24,201	20,231	49,818	19,162
63	2,997	2,022	5,696	30,917	23,376	1,179	1,741	16,604	3,303	7,930	5,578	27,615	3,023
64	7,858	16,447	4,800	7,283	77,907	7,099	6,138	5,407	5,688	4,683	2,224	5,735	6,038
65	1,502	11,969	1,232	1,803	42,764	1,610	1,207	1,424	1,876	1,935	531	3,787	2,532
66	10,450	4,786	6,899	12,811	14,547	12,190	1,173	11,403	5,321	10,251	5,391	9,073	6,968
67	542	2,627	724	1,576	1,406	1,094	1,738	2,756	543	1,598	456	3,455	6,993
68	7,095	4,834	7,616	9,653	22,360	8,569	8,024	9,333	6,780	9,427	8,175	13,699	9,940
69	487	2,172	4,169	2,711	7,538	1,061	1,455	3,684	1,420	3,299	1,940	6,234	1,526
70	1,555	1,645	1,937	4,719	9,650	2,685	1,729	4,086	526	3,127	2,379	3,772	1,315
71	167	861	461	1,939	4,134	821	265	1,595	196	448	448	1,650	472
72	3,582	15,133	3,909	4,965	134,058	14,077	9,581	4,133	15,049	5,650	4,393	8,471	12,253
73	35,780	137,660	59,542	71,898	424,220	185,315	104,352	89,469	146,908	117,093	105,615	208,837	118,617
74	157	43	100	78	750	41	17	44	36	29	58	66	78
75	137,716	63,154	75,127	76,174	770,824	34,497	14,822	54,727	42,423	25,160	44,333	126,388	141,287
76	55	25	40	14	170	17	7	20	17	10	8	44	58
77	42,747	43,140	28,870	22,237	187,241	22,147	10,166	36,519	23,005	9,939	10,172	99,085	115,146
78	66	13	19	51	352	12	4	10	10	4	18	14	13
79	47,104	15,901	14,571	44,580	324,793	3,470	1,515	5,479	8,766	4,230	22,910	19,630	16,399
80	34												

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND ACREAGE

		Jackson.	Jefferson.	Knox.	Lake.	Lawrence.	Licking.	Logan.	Lorain.	
VALUE OF ALL CROPS										
1	Total	dollars.....	730,918	1,342,951	2,571,589	1,796,682	1,046,132	3,073,966	2,785,666	3,207,567
2	Cereals.....	dollars.....	351,373	651,106	1,620,431	485,059	1,829,289	1,893,027	1,448,097	1,448,097
3	Other grains and seeds.....	dollars.....	701	1,155	20,199	3,052	1,374	14,440	20,919	12,915
4	Hay and forage.....	dollars.....	159,477	416,257	622,403	269,799	99,375	827,230	527,279	916,290
5	Vegetables.....	dollars.....	122,321	133,980	167,103	377,184	231,476	246,837	127,828	443,654
6	Fruits and nuts.....	dollars.....	27,372	82,364	49,478	196,810	152,519	58,740	52,752	218,892
7	All other crops.....	dollars.....	39,674	58,089	91,975	464,778	194,948	97,430	163,861	167,719
SELECTED CROPS (acres and quantity)										
8	Cereals:									
9	Total.....	acres.....	29,978	34,042	84,083	25,839	31,325	105,369	112,613	71,698
10	Corn.....	bushels.....	609,373	982,124	2,633,354	878,233	621,221	3,258,467	3,955,018	2,519,394
11	Oats.....	acres.....	20,223	13,159	42,433	9,791	26,272	60,708	64,274	25,536
12	Wheat.....	bushels.....	483,300	520,433	1,795,605	359,534	554,549	2,430,944	2,735,615	1,022,582
13	Barley.....	acres.....	1,002	10,811	32,011	11,500	2,138	11,836	38,964	29,103
14	Buckwheat.....	bushels.....	18,705	302,503	333,064	428,709	29,795	302,109	1,106,982	1,111,791
15	Rye.....	acres.....	7,671	9,899	28,455	2,458	2,906	29,471	7,597	16,221
16	Other grains:									
17	Dry edible beans.....	acres.....	12	2	2	38	31	5	3	28
18	Hay and forage:									
19	Total.....	acres.....	22,648	35,075	49,638	19,108	9,172	71,265	37,428	57,884
20	All tame or cultivated grasses.....	acres.....	18,770	38,046	48,046	28,882	8,948	92,107	54,007	101,094
21	Timothy alone.....	acres.....	22,253	34,858	49,477	18,414	8,809	70,398	37,059	55,397
22	Timothy and clover mixed.....	acres.....	18,480	36,440	67,237	23,415	8,311	85,871	53,295	82,588
23	Clover alone.....	acres.....	4,894	29,567	25,575	14,162	5,787	44,381	16,960	33,491
24	Alfalfa.....	acres.....	4,385	30,314	33,014	17,684	5,419	52,744	23,431	48,681
25	Millet or Hungarian grass.....	acres.....	5,266	5,171	27,631	3,891	2,040	23,475	13,741	19,039
26	Other tame or cultivated grasses.....	acres.....	5,206	5,171	27,631	3,891	2,040	23,475	13,741	19,039
27	Wild, salt, or prairie grasses.....	acres.....	217	524	4,066	106	117	29,298	18,830	29,154
28	Grains cut green.....	acres.....	204	637	6,118	246	117	2,132	3,887	2,714
29	Coarse forage.....	acres.....	27	57	116	101	9	3,119	5,251	4,395
30	Root forage.....	acres.....	34	123	397	253	72	169	2,215	87
31	Special crops:									
32	Potatoes.....	bushels.....	117	83	33	72	364	413	5,471	249
33	All other vegetables.....	acres.....	136	134	56	138	442	161	119	99
34	Tobacco.....	acres.....	11,135	71	30	22	502	119	180	10
35	Sugar beets.....	acres.....	8,515	61	21	21	488	136	193	10
36	Maple trees.....	acres.....	360	40	65	65	34	25	2
37	Maple sugar (made).....	acres.....	232	48	48	32	5	1
38	Maple sirup (made).....	acres.....	45	7	7	45	208	119	74	56
39	Maple sirup (made).....	acres.....	84	60	172	220	459	118	120	120
40	Maple sirup (made).....	acres.....	35	137	154	61	748	270	2,429	2,429
41	Maple sirup (made).....	acres.....	58	1,472	749	5,222	385	5,777	589	18,385
42	Maple sirup (made).....	acres.....	(1)	3
43	Maple sirup (made).....	acres.....	2	25
44	Maple sirup (made).....	acres.....	875	1,178	2,459	2,836	1,489	2,555	1,325	4,951
45	Maple sirup (made).....	bushels.....	89,096	109,490	220,121	250,475	144,009	226,833	110,134	466,963
46	Maple sirup (made).....	acres.....	827	617	697	2,465	2,064	1,418	1,027	2,196
47	Maple sirup (made).....	acres.....	4	1	1	2	1,138	160	(1)
48	Maple sirup (made).....	acres.....	6,238	1,400	1,330	2,700	1,012,243	121,855	100
49	Maple sirup (made).....	acres.....	(1)	10
50	Maple sirup (made).....	acres.....	3	16
51	Maple sirup (made).....	acres.....	17	1,909	32,469	44,579	37	47,139	93,193	107,325
52	Maple sirup (made).....	acres.....	10	2,910	3,066	50	401	79,322	12,705
53	Maple sirup (made).....	acres.....	5	1,169	14,098	15,365	6	23,378	63,461	37,740
54	Maple sirup (made).....	acres.....
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116	Maple sirup (made).....	acres.....						

STATISTICS OF AGRICULTURE.

679

AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909—Continued.

	Lucas.	Madison.	Mahoning.	Marion.	Medina.	Meigs.	Mercer.	Miami.	Monroe.	Montgomery.	Morgan.	Morrow.	Muskogum.
1	2,620,626	3,018,895	2,239,682	2,681,077	2,856,186	1,106,645	2,957,757	3,977,496	1,474,513	4,610,958	1,158,225	2,111,033	2,204,607
2	1,269,540	2,559,352	908,064	1,861,867	1,516,071	538,075	2,174,808	2,461,205	644,414	2,017,750	590,849	1,160,768	1,133,902
3	15,989	12,560	43,121	20,588	17,798	2,266	51,723	6,592	3,956	4,698	1,101	27,260	1,651
4	345,401	325,559	630,794	520,776	767,186	255,620	459,078	346,413	347,917	484,659	342,913	638,895	576,018
5	645,019	89,919	328,447	122,403	303,147	198,436	138,329	199,842	174,183	384,941	120,249	133,604	234,756
6	166,780	15,900	160,846	30,743	64,337	51,363	49,294	84,172	74,936	107,714	51,384	36,808	144,256
7	177,897	15,605	168,410	124,695	187,647	60,885	83,925	879,272	229,107	1,611,196	51,720	113,708	114,024
8	67,228	147,429	47,270	103,807	73,240	35,037	133,662	131,754	40,853	112,776	30,604	65,646	62,466
9	2,337,774	5,060,763	1,387,918	3,703,527	2,420,433	806,736	4,384,656	4,964,642	1,048,366	3,712,937	911,667	2,036,929	1,789,001
10	34,004	92,209	15,155	57,445	23,979	20,302	65,222	71,226	20,518	64,099	17,628	31,920	33,306
11	1,363,019	3,796,638	518,697	2,421,731	905,394	584,775	2,678,000	3,481,762	731,569	2,680,430	687,441	1,249,399	1,251,239
12	22,006	31,455	16,798	32,943	23,772	1,981	47,713	37,961	6,680	21,371	2,286	16,227	6,951
13	712,651	904,202	583,716	1,057,245	909,169	38,140	1,405,902	1,202,991	145,078	632,712	52,501	500,195	177,120
14	7,518	23,253	14,409	13,093	24,472	12,564	19,297	22,311	12,522	26,409	10,516	16,731	21,696
15	189,556	353,498	269,740	219,893	585,791	182,189	274,715	270,876	154,078	376,682	169,291	277,063	354,287
16	1,378	63	21	61	35	3	896	18	5	122	10	15	24
17	33,862	1,220	344	1,190	775	85	19,650	573	65	2,981	172	180	556
18	764	6	427	14	148	22	28	2	757	-----	46	13	27
19	13,171	85	8,612	134	3,507	281	250	18	12,793	-----	617	169	364
20	1,551	438	460	249	834	103	502	286	369	772	118	736	462
21	25,336	5,020	6,809	3,304	15,797	1,221	6,073	3,122	4,754	11,112	1,705	9,881	5,435
22	14	(¹)	3	4	5	21	6	11	78	23	5	15	8
23	185	4	20	42	92	389	60	214	1,227	236	39	122	102
24	22,715	28,321	42,386	36,747	46,638	25,793	34,198	32,023	34,483	35,613	32,704	45,034	57,237
25	34,839	37,968	70,918	66,064	77,672	27,047	46,896	40,776	35,270	46,362	37,165	66,511	65,485
26	20,929	26,728	40,537	36,690	45,668	24,991	33,288	23,278	34,408	30,338	32,619	44,802	56,979
27	28,054	34,871	55,777	55,673	70,192	26,092	44,829	29,775	35,052	37,905	37,032	65,070	63,866
28	9,438	14,937	25,332	22,663	21,619	14,890	18,042	11,906	28,136	18,432	22,097	25,681	44,887
29	11,949	19,210	34,324	34,420	31,444	14,904	23,649	15,336	28,540	22,217	24,966	35,773	49,339
30	8,981	8,645	14,270	11,119	20,480	7,801	11,929	8,454	5,790	7,163	8,059	10,909	10,333
31	11,891	11,361	20,013	16,910	32,995	8,130	16,594	10,904	5,932	8,644	9,203	24,321	12,114
32	1,605	2,570	807	2,819	3,453	482	2,911	2,470	3,08	2,418	656	3,130	1,000
33	2,188	3,162	1,264	4,120	5,495	545	3,582	2,638	356	1,930	941	4,616	1,371
34	661	429	18	42	62	28	290	288	3	1,914	156	121	182
35	1,689	987	46	149	193	73	712	673	3	4,462	356	281	413
36	131	92	45	47	35	94	116	126	16	367	29	24	92
37	187	126	62	74	55	117	192	189	24	605	46	32	140
38	113	55	65	-----	9	1,996	-----	34	155	44	1,622	37	485
39	150	25	68	-----	10	1,923	-----	35	147	47	1,520	47	489
40	46	-----	7	-----	-----	9	-----	1	-----	-----	-----	-----	17
41	52	-----	12	-----	-----	12	-----	1	-----	-----	-----	-----	9
42	159	7	32	9	18	732	16	23	12	253	11	50	102
43	305	16	42	16	26	960	22	33	12	489	10	268	45
44	1,577	1,584	1,809	48	962	61	894	8,721	63	5,022	74	179	186
45	6,390	3,076	15,084	375	7,454	382	1,545	10,964	206	7,966	123	1,170	1,505
46	4	2	1	-----	-----	(¹)	-----	(¹)	-----	(¹)	-----	3	(¹)
47	38	5	3	-----	-----	1	-----	3	-----	2	-----	3	3
48	5,074	761	4,202	1,487	5,424	1,850	1,320	2,521	1,819	2,730	865	2,163	1,939
49	478,308	71,513	384,035	113,391	555,041	175,013	93,956	230,256	191,448	219,062	88,737	169,576	173,395
50	4,350	785	973	702	749	1,364	1,280	1,048	735	3,131	686	623	1,476
51	(¹)	-----	-----	-----	117	33	47	9,224	1,615	22,621	40	(¹)	10
52	235	-----	-----	-----	159,403	34,624	22,175	8,199,498	1,878,161	15,291,779	26,450	(¹)	11,235
53	575	-----	-----	-----	-----	(¹)	2	-----	-----	1	-----	(¹)	2
54	4,315	-----	-----	-----	-----	2	-----	-----	-----	2	-----	1	647
55	635	-----	61,645	4,398	219,479	489	328	5,805	182	5,881	427	88,254	3
56	-----	-----	4,595	-----	26,839	175	-----	-----	85	-----	13	4,690	3
57	197	-----	38,466	1,834	87,800	197	169	3,002	72	2,359	182	30,018	329
58	139,177	50,473	194,284	84,111	138,894	198,122	127,926	183,846	166,038	120,418	155,805	119,794	255,362
59	89,230	12,348	120,562	26,216	57,727	46,716	62,782	83,056	98,099	74,915	55,114	28,921	123,683
60	68,383	28,321	117,044	49,639	88,731	130,939	86,127	79,491	115,771	37,676	98,033	71,738	132,731
61	53,956	8,316	63,983	19,963	42,885	38,537	56,538	62,208	85,374	50,741	38,747	16,817	75,608
62	28,882	7,506	29,015	11,686	14,054	29,256	15,567	20,913	17,495	13,053	25,143	23,845	65,623
63	16,391	2,214	17,744	815	2,263	2,188	2,197	6,398	6,119	3,257	9,146	4,883	34,769
64	17,116	2,985	12,651	5,125	8,449	9,878	6,544	18,584	3,916	21,802	4,081	6,090	16,396
65	8,144	484	9,999	1,970	4,327	2,494	1,377	2,436	1,348	4,117	1,680	3,907	2,702
66	5,235	5,074	18,511	10,176	12,618	9,524	12,203	26,868	12,917	11,716	12,231	7,188	29,943
67	2,088	475	14,298	2,072	637	2,371	2,090	1,221	1,962	1,225	1,268	994	2,820
68	17,991	5,422	14,573	5,864	13,266	10,433	6,576	35,132	10,935	27,740	12,926	8,997	14,814
69	7,909	614	13,282	851	5,290	1,617	370	10,006	1,864	13,315	3,502	1,876	4,503
70	1,539	1,114	2,469	1,593	1,717	2,069	829	2,717	4,983	8,275	3,343	1,895	7,711
71	742	230	1,249	544	680	243	209	773	1,416	2,241	771	442	3,189
72	254,337	3,486	5,112	6,420	19,089	7,310	33,377	7,688	13,913	22,567	3,715	4,367	12,915
73	951,215	29,590	181,456	102,165	174,395	110,361	270,241	135,190	167,131	182,109	104,070	89,503	193,636
74	515	7	186	86	85	197	17	108	78	256	26	54	134
75	676,588	11,741	463,970	72,706	133,137	200,987	11,145	81,823	168,878	258,343	21,680	76,619	218,929
76	180	3	109	23	47	124	6	32	46	71	8	32	57
77	326,674	3,828	354,077	33,035	100,140	136,333	3,530	31,006	136,371	77,835	9,863	59,775	126,559
78	214	2	28	43	16	59	4	28	26	98	9	50	50
79	197,356	2,169	55,147	24,332	13,897	55,025	2,504	16,883	26,108	101,680	6,364	9,505	59,653
80	87	2	48	17	10	12	1	33	6	64	8	10	20
81	85,600	4,909	50,744	6,214	5,720	8,040	403	25,402	6,183	52,611	4,760	4,393	27,191
82	49	25	630	26	551	569	-----	3	521	12	8	1,235	15
83	1,150	-----	7,140	500	8,985	12,475	-----	-----	16,560	700	450	30,375	825

AND RECEIPTS, BY COUNTIES: 1909—Continued.

1	1,586	1,301	1,757	1,345	1,832	1,325	1,589	1,834	1,260	2,641	1,359	1,462	1,933
2	390,147	466,841	244,638	238,820	195,490	84,915	160,364	265,391	73,700	348,132	86,530	128,215	191,710
3	102,649	88,491	73,851	55,674	72,473	22,249	59,419	78,175	27,564	100,976	20,281	29,693	50,734
4	644	401	2,208	564	2,467	1,375	430	916	1,564	1,951	3,549	1,644	2,201
5	29,31												

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND ACREAGE

		Noble.	Ottawa.	PauIding.	Perry.	Pickaway.	Pike.	Portage.	Preble.
VALUE OF ALL CROPS									
1	Total.....dollars.....	1,387,643	2,005,966	3,131,963	1,328,802	3,899,469	1,166,256	2,453,042	3,484,240
2	Cereals.....dollars.....	517,061	920,182	2,434,137	725,075	3,367,310	792,265	1,159,163	2,211,030
3	Other grains and seeds.....dollars.....	1,079	9,144	13,999	8,028	13,446	5,088	1,485	3,337
4	Hay and forage.....dollars.....	304,602	386,796	437,039	345,251	276,739	106,850	531,999	338,410
5	Vegetables.....dollars.....	132,641	97,039	97,467	142,093	173,523	110,783	463,144	135,900
6	Fruits and nuts.....dollars.....	60,493	541,479	23,652	45,025	27,824	29,618	69,979	58,154
7	All other crops.....dollars.....	305,767	51,326	125,669	63,330	40,627	121,652	227,272	737,409
SELECTED CROPS (acres and quantity)									
Cereals:									
8	Total.....acres.....	29,341	56,823	142,213	39,822	162,354	51,226	61,514	118,141
9	Corn.....bushels.....	816,587	1,745,237	5,274,809	1,132,923	5,396,479	1,332,298	1,896,674	4,074,873
10	Oats.....bushels.....	17,105	26,300	69,054	21,791	93,122	34,570	18,418	67,128
11	Wheat.....bushels.....	628,846	964,313	2,779,346	808,458	4,104,328	1,092,432	661,401	3,150,067
12	Barley.....bushels.....	2,624	21,148	63,295	2,641	2,669	1,537	22,570	15,604
13	Buckwheat.....bushels.....	55,489	624,011	2,342,187	66,763	70,823	26,919	820,004	453,639
14	Rye.....bushels.....	9,445	7,756	8,645	14,973	66,190	14,710	19,284	35,134
15	Other grains.....bushels.....	130,112	124,280	131,313	251,749	1,217,419	203,622	391,332	461,536
16	Other grains.....acres.....	22	1,336	414	4	3	3	22	75
17	Other grains.....bushels.....	388	28,595	10,338	30	55	53	877	1,649
18	Other grains.....acres.....	43	16	53	126	27	583	877	8
19	Other grains.....bushels.....	524	294	453	1,780	285	7,873	18,441	170
20	Other grains.....acres.....	100	265	742	287	345	123	341	182
21	Other grains.....bushels.....	1,211	3,682	10,842	4,143	3,614	1,397	4,993	2,562
Other grains:									
22	Dry edible beans.....acres.....	2	1	5	12	12	52	13	19
23	Dry edible beans.....bushels.....	36	7	81	79	91	334	59	163
Hay and forage:									
24	Total.....acres.....	34,921	24,769	30,725	31,259	22,887	13,124	38,205	29,762
25	Total.....tons.....	39,363	36,148	43,698	34,173	31,792	14,807	66,533	41,965
26	All tame or cultivated grasses.....acres.....	34,848	24,704	30,037	31,176	22,154	11,891	35,706	21,645
27	All tame or cultivated grasses.....tons.....	39,080	35,894	42,610	33,923	29,955	12,193	43,630	27,663
28	Timothy alone.....acres.....	25,566	14,288	20,670	20,873	11,631	6,096	16,089	9,448
29	Timothy alone.....tons.....	28,051	20,376	29,442	22,720	15,547	6,517	19,538	12,352
30	Timothy and clover mixed.....acres.....	7,593	6,883	7,166	9,216	8,750	2,896	18,465	7,099
31	Timothy and clover mixed.....tons.....	9,072	9,892	10,092	10,037	11,883	2,719	22,576	8,843
32	Clover alone.....acres.....	307	2,737	2,059	440	1,738	919	859	4,195
33	Clover alone.....tons.....	418	3,853	2,786	567	1,738	919	859	4,195
34	Alfalfa.....acres.....	121	720	87	17	209	895	1,119	4,527
35	Alfalfa.....tons.....	221	1,673	236	37	681	128	45	696
36	Millet or Hungarian grass.....acres.....	18	30	23	77	29	272	91	1,611
37	Millet or Hungarian grass.....tons.....	31	26	28	107	56	309	180	187
38	Other tame or cultivated grasses.....acres.....	1,243	46	32	553	56	1,942	157	314
39	Other tame or cultivated grasses.....tons.....	1,287	74	26	455	56	1,625	142	11
40	Wild, salt, or prairie grasses.....acres.....	35	9	2	2	2	78	78	78
41	Wild, salt, or prairie grasses.....tons.....	35	14	4	4	4	112	112	112
42	Grains cut green.....acres.....	13	15	45	64	24	17	28	65
43	Grains cut green.....tons.....	24	17	70	207	34	19	41	84
44	Coarse forage.....acres.....	25	41	621	17	709	1,216	2,368	8,052
45	Coarse forage.....tons.....	224	223	832	39	1,803	2,595	22,426	14,218
46	Root forage.....acres.....	22	22	22	22	22	22	22	22
47	Root forage.....tons.....	22	22	186	22	22	22	324	22
Special crops:									
48	Potatoes.....acres.....	910	1,139	843	1,132	870	1,112	9,825	1,064
49	Potatoes.....bushels.....	89,296	87,957	65,917	100,011	102,721	113,029	1,039,247	102,226
50	All other vegetables.....acres.....	668	905	962	713	3,189	773	896	989
51	Tobacco.....acres.....	2,343	18	18	(¹)	13	416	10,714	10,714
52	Tobacco.....pounds.....	2,749,979	15,975	275	13,010	315,574	1	7,617,712	2
53	Sugar beets.....acres.....	1	418	3,361	26	26	12	11	11
54	Sugar beets.....tons.....	4	3,361	10,561	505	11,587	810	390,857	3,874
55	Maple trees.....number.....	304	50	57	57	75	231	4,997	11
56	Maple sugar (made).....pounds.....	50	50	228	6,466	577	75	182,084	1,519
57	Maple sirup (made).....gallons.....	231	228	6,466	577	75	182,084	1,519	1,519
FRUITS AND NUTS									
Orchard fruits:									
58	Total.....trees.....	138,337	853,066	101,216	131,323	66,403	127,565	223,371	129,549
59	Total.....bushels.....	75,360	342,042	30,240	37,195	25,188	30,494	63,142	42,711
60	Apple.....trees.....	88,373	63,760	77,865	70,779	40,408	90,452	101,401	69,722
61	Apple.....bushels.....	56,351	41,609	26,372	24,545	18,422	23,313	44,465	27,144
62	Peaches and nectarines.....trees.....	21,526	731,917	26,168	9,205	25,135	4,452	19,443	19,443
63	Peaches and nectarines.....bushels.....	12,225	275,497	634	7,525	3,956	5,111	1,245	4,610
64	Pears.....trees.....	3,257	22,743	5,222	4,861	3,942	3,351	6,077	9,507
65	Pears.....bushels.....	1,308	9,524	2,038	817	909	5,339	2,487	2,487
66	Plums and prunes.....trees.....	13,328	24,749	7,464	13,346	5,689	3,587	8,413	12,167
67	Plums and prunes.....bushels.....	1,997	13,000	732	1,182	394	358	3,436	1,410
68	Cherries.....trees.....	8,375	7,188	4,203	12,560	5,236	3,501	101,469	15,331
69	Cherries.....bushels.....	2,443	1,376	313	2,273	1,106	400	7,857	6,383
70	Quinces.....trees.....	3,345	2,697	599	3,568	1,846	1,519	1,532	3,285
71	Quinces.....bushels.....	1,033	1,035	147	851	384	393	794	663
72	Grapes.....vines.....	4,872	1,473,827	12,932	5,291	2,925	4,903	6,692	3,799
73	Grapes.....pounds.....	66,270	5,934,959	151,303	90,118	53,246	136,037	164,620	101,547
Small fruits:									
74	Total.....acres.....	37	63	16	43	30	38	61	33
75	Total.....quarts.....	44,150	56,153	14,428	49,858	36,406	57,447	104,282	41,504
76	Strawberries.....acres.....	9	20	5	11	19	20	42	11
77	Strawberries.....quarts.....	17,899	29,829	6,794	13,713	23,970	50,454	84,239	18,653
78	Raspberries and loganberries.....acres.....	25	33	5	28	3	3	8	8
79	Raspberries and loganberries.....quarts.....	23,331	21,873	3,340	26,170	3,692	1,844	10,095	10,214
80	Blackberries and dewberries.....acres.....	2	8	1	3	7	16	9	2
81	Blackberries and dewberries.....quarts.....	2,126	1,671	574	2,756	7,374	4,678	7,655	1,927
82	Nuts.....trees.....	30	14	194	229	65	65	173	173
83	Nuts.....pounds.....	1,900	300	1,816	300	600	3,195	3,195	3,195

¹ Less than 1 acre.

TABLE 5.—SELECTED FARM EXPENSES

1	Labor.....Farms reporting.....	1,188	1,108	1,557	1,263	1,692	774	1,994	1,636
2	Labor.....Cash expended.....dollars.....	62,701	229,712	137,215	88,021	522,865	122,576	277,247	177,426
3	Labor.....Rent and board furnished.....dollars.....	23,409	67,902	45,561	25,012	90,263	17,450	75,194	50,185
4	Fertilizer.....Farms reporting.....	1,139	85	43	1,715	1,488	1,213	2,475	2,054
5	Fertilizer.....Amount expended.....dollars.....	19,636	2,600	1,095	59,665	32,326	43,377	95,286	77,788
6	Feed.....Farms reporting.....	990	483	544	869	660	901	1,792	1,125
7	Feed.....Amount expended.....dollars.....	37,976	39,211	32,731	47,540	72,088	27,089	168,200	91,511
8	Receipts from sale of feedable crops.....dollars.....	37,980	413,601	1,441,851	109,340	726,706	161,265	66,072	296,319

STATISTICS OF AGRICULTURE.

AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909—Continued.

	Putnam.	Richland.	Ross.	Sandusky.	Scioto.	Seneca.	Shelby.	Stark.	Summit.	Trumbull.	Tuscarawas.	Union.
1	3,295,690	3,213,265	3,374,338	3,160,642	1,560,623	3,985,824	2,788,415	4,203,790	2,533,862	2,402,217	2,403,600	2,426,895
2	2,404,207	1,929,447	2,045,856	2,114,567	826,160	2,664,293	2,175,000	2,384,008	1,320,762	885,085	1,274,775	1,629,674
3	62,769	48,437	15,357	21,152	2,411	82,160	28,895	5,939	3,363	2,363	7,714	17,136
4	484,192	706,724	280,077	428,802	167,748	798,257	316,766	814,037	523,293	822,786	588,447	639,043
5	138,957	235,274	271,203	348,341	245,309	238,168	123,270	610,030	443,149	333,764	265,175	79,124
6	50,780	107,960	73,583	111,564	59,503	53,890	50,848	200,753	105,087	113,821	176,240	19,415
7	154,785	185,423	108,262	136,216	259,492	149,047	93,636	189,023	138,208	244,398	91,249	42,503
8	146,329	103,220	137,307	114,716	51,638	147,055	127,264	115,539	64,461	51,523	72,049	98,103
9	4,786,568	3,257,127	4,398,768	3,589,195	1,355,097	4,549,502	4,327,081	3,700,269	2,005,047	1,474,696	2,020,295	3,229,446
10	78,087	37,779	83,236	49,846	33,052	59,767	60,036	35,400	20,002	17,923	26,389	50,248
11	3,012,178	1,551,798	3,513,960	1,804,996	1,068,261	2,345,203	2,641,034	1,483,967	708,428	575,786	1,038,649	2,374,748
12	41,138	29,969	2,157	33,327	2,250	36,016	43,946	34,921	21,422	20,322	20,847	25,350
13	1,394,672	1,052,850	46,826	1,100,198	40,454	1,261,924	1,377,290	1,262,970	782,368	643,878	560,317	676,235
14	23,649	34,750	50,728	30,382	15,143	50,990	22,944	44,759	22,642	9,392	24,244	10,966
15	302,153	640,193	822,437	661,606	226,418	937,081	303,668	945,571	506,051	185,226	414,489	148,010
16	2,596	83	3	468	9	126	23	24	15	13	10	32
17	63,742	2,178	100	11,396	205	2,695	614	497	616	187	182	661
18	9	51	172	129	1,145	10	17	55	88	3,388	134	33
19	58	818	1,926	2,253	10,226	256	224	994	2,126	63,102	1,658	322
20	850	588	1,010	558	39	146	297	380	257	485	425	2,464
21	13,765	9,285	13,491	8,552	533	2,343	4,237	6,280	5,083	6,517	5,000	29,250
22	9	26	40	7	74	9	4	7	6	5	4	4
23	127	252	422	63	857	136	78	88	101	86	50	59
24	37,547	47,670	23,030	34,011	15,800	56,857	27,646	59,579	33,022	61,762	53,274	47,123
25	62,773	71,056	28,554	44,172	17,503	76,282	35,476	80,440	60,565	100,584	60,497	71,015
26	37,045	45,954	22,506	31,997	15,086	56,452	25,301	58,676	30,946	58,048	53,135	46,325
27	51,439	66,182	27,933	40,696	15,568	75,533	31,471	73,679	41,513	72,070	59,649	69,161
28	16,277	22,496	8,649	11,796	7,816	30,092	13,629	32,673	15,657	25,449	40,918	24,853
29	22,515	30,967	10,191	15,116	8,118	40,717	16,541	39,840	20,897	32,800	44,771	36,164
30	16,674	18,821	10,778	15,054	5,085	21,504	9,414	24,577	13,664	29,854	10,733	15,934
31	23,446	28,065	13,214	18,794	4,921	28,166	12,202	31,967	18,248	36,407	12,303	24,240
32	3,981	4,522	1,369	4,773	699	4,486	1,948	1,352	1,545	518	1,282	4,687
33	5,306	6,943	1,499	5,976	849	5,753	2,193	1,773	2,203	744	1,785	7,035
34	84	20	920	272	141	327	182	14	18	115	51	722
35	144	51	2,370	691	331	836	374	32	44	152	117	1,627
36	29	53	124	90	361	27	127	10	61	68	27	36
37	28	80	147	105	459	48	159	23	119	110	45	57
38	-----	42	666	12	984	16	1	51	1	2,044	124	43
39	-----	76	512	14	890	13	2	44	2	1,857	128	38
40	-----	-----	-----	-----	8	-----	-----	15	5	376	-----	-----
41	-----	-----	-----	-----	5	-----	-----	9	9	652	-----	-----
42	-----	19	16	15	164	4	7	18	103	90	5	59
43	-----	96	30	24	283	6	5	168	543	375	21	310
44	-----	1,697	508	1,996	542	399	2,338	870	1,966	3,248	134	739
45	476	(¹)	591	3,419	1,647	737	4,000	6,581	18,419	27,485	827	1,544
46	1,131	(¹)	-----	3	-----	2	-----	(¹)	2	(¹)	-----	-----
47	203	3	33	3	-----	6	-----	2	81	2	-----	-----
48	1,743	3,608	1,984	3,586	2,364	2,846	1,397	6,774	3,837	5,262	2,996	573
49	132,597	336,564	212,515	352,040	259,797	257,990	129,064	719,680	619,022	450,991	275,050	53,885
50	940	806	3,128	3,732	1,274	1,352	722	1,852	1,324	1,288	996	582
51	(¹)	(¹)	23	1,865	(¹)	101	300	(¹)	-----	-----	1	1
52	75	110	19,884	1,471,963	-----	-----	211,470	175	-----	-----	320	1,000
53	1,104	-----	1	242	-----	-----	-----	-----	-----	-----	(¹)	-----
54	10,014	-----	3	2,104	-----	-----	-----	-----	-----	232,749	5	-----
55	1,813	70,670	5,148	3,730	59	29,500	4,104	29,802	52,359	6,205	80	19,747
56	-----	4,457	19	165	33	1,005	23	430	6,892	6,205	80	2,810
57	643	29,659	2,064	1,792	17	11,058	1,789	12,388	22,954	90,274	1,131	7,558
58	144,812	97,006	226,762	157,085	142,261	140,779	105,186	282,315	131,124	197,793	226,814	71,412
59	62,908	71,058	60,259	131,563	48,314	57,461	59,991	174,178	69,189	81,828	196,175	15,376
60	99,436	21,201	121,508	82,455	101,129	84,283	65,645	154,418	79,206	134,181	117,426	33,250
61	57,022	29,008	39,744	115,646	41,517	49,061	49,853	119,134	44,430	44,862	147,463	11,852
62	14,960	22,194	68,600	17,018	29,385	23,300	12,764	46,637	12,404	24,306	55,751	14,764
63	1,175	25,434	13,111	999	4,737	1,593	2,424	15,046	4,011	16,503	29,509	822
64	7,851	16,613	7,947	10,730	3,189	7,690	6,863	12,935	8,388	11,709	7,071	5,369
65	1,697	4,657	3,970	4,411	980	3,340	2,275	8,632	5,766	5,306	3,257	881
66	11,682	13,940	13,454	8,442	3,342	10,982	11,286	25,980	11,950	10,870	19,355	9,070
67	2,110	2,977	1,698	487	1,504	3,268	10,450	11,560	4,422	6,339	5,065	1,113
68	3,334	19,942	11,188	37,264	4,206	12,091	7,294	35,956	17,418	11,227	20,399	7,567
69	1,631	7,271	1,806	8,364	1,398	1,398	1,673	17,435	9,837	7,682	8,272	469
70	1,413	3,078	4,017	1,159	997	2,326	1,276	6,227	1,715	1,454	6,761	1,323
71	1,262	1,110	983	443	267	564	492	2,829	715	790	2,589	235
72	22,177	13,813	11,612	24,835	9,366	27,813	5,865	15,279	15,291	10,095	22,775	6,466
73	246,647	166,659	81,668	156,038	99,917	255,478	65,895	365,679	176,035	217,782	442,018	64,257
74	35	158	183	183	208	97	34	231	159	143	145	8
75	34,854	212,620	168,693	205,787	187,459	77,125	26,252	461,394	318,593	235,912	224,659	7,400
76	13	79	68	80	109	74	11	131	100	97	56	2
77	19,143	138,606	91,428	125,410	111,943	61,762	7,420	329,919	243,039	193,811	149,386	2,272
78	12	50	55	55	49	16	3	54	42	21	41	2
79	7,117	51,221	44,357	40,973	32,121	8,441	2,129	66,919	48,884	17,038	45,349	1,575
80	5	26	56	39	42	5	12	40	14	16	47	2
81	5,612	20,519	31,118	29,051	39,766	4,670	11,437	54,280	21,542	12,775	28,331	1,596
82	38	313	106	176	7	218	10	378	176	306	491	18
83	1,800	9,055	1,885	2,400	700	5,275	250	17,770	4,950	11,245	18,423	1,000

AND RECEIPTS, BY COUNTIES: 1909—Continued.

1	1,938	1,782	1,729	1,585	1,204	2,181	1,387	2,790	1,619	2,372	1,787	1,465
2	246,632	224,691	501,788	251,233	153,608	278,116	150,446	345,449	320,475	256,783	182,991	227,683
3	78,925	63,231	74,893	75,027	34,050	106,622	40,788	120,815	85,867	72,554	64,842	65,757
4	36	1,841	1,692	1,310	1,399	2,284	734	2,996	1,505	2,501	1,627	528
5	995	61,273	75,324	44,960	52,548	83,061	19,882	137,790	75,627	73,736	46,235	15,250
6	640	777	1,050	712	844	844	482	2,069	1,361	2,675	1,473	844
7	45,144	60,263	88,541	46,252	63,237	42,475	20,583	157,936	177,159	287,132	86,008	95,794
8	747,088	293,375	567,211	444,176	172,306	614,195	771,487	281,685	107,999	100,714	116,743	449,284

TABLE 4.—VALUE OF ALL CROPS AND PRINCIPAL CLASSES THEREOF, AND ACREAGE AND PRODUCTION OF PRINCIPAL CROPS, BY COUNTIES: 1909—Continued.

		Van Wert.	Vinton.	Warren.	Washington.	Wayne.	Williams.	Wood.	Wyandot.	
VALUE OF ALL CROPS										
1	Total	dollars.....	3,013,376	546,210	2,663,785	1,965,950	4,557,787	2,709,926	4,564,766	2,588,347
2	Cereals.....	dollars.....	2,229,149	284,835	1,681,810	848,640	2,903,262	1,618,007	3,644,026	1,722,481
3	Other grains and seed.....	dollars.....	22,838	135	1,673	1,726	28,033	54,552	35,027	49,389
4	Hay and forage.....	dollars.....	533,349	119,741	383,887	510,529	831,435	679,726	537,450	595,476
5	Vegetable.....	dollars.....	110,420	81,901	170,815	362,898	524,885	124,406	195,876	122,235
6	Fruits and nuts.....	dollars.....	56,021	18,366	25,883	121,728	115,831	67,411	74,984	32,895
7	All other crops.....	dollars.....	61,593	41,232	400,017	120,429	154,341	165,824	77,403	65,871
SELECTED CROPS (acres and quantity)										
Cereals:										
8	Total	acres.....	130,704	22,607	96,135	51,424	127,745	91,695	204,582	93,775
9	.....	bushels.....	4,834,804	474,119	3,201,935	1,261,947	4,372,200	3,034,074	7,482,516	3,111,262
10	Corn.....	acres.....	70,173	16,350	58,408	27,475	43,247	38,861	110,380	46,604
11	.....	bushels.....	2,854,569	397,501	2,562,458	830,577	1,795,143	1,453,087	4,463,745	1,877,556
12	Oats.....	acres.....	50,141	893	12,446	6,505	32,374	32,345	74,608	24,598
13	.....	bushels.....	1,828,660	15,889	346,891	140,869	1,312,407	1,181,145	2,620,974	884,877
14	Wheat.....	acres.....	7,316	5,132	23,624	16,787	51,810	18,287	17,553	22,214
15	.....	bushels.....	90,011	57,473	267,546	272,642	1,288,096	347,508	353,678	394,223
16	Barley.....	acres.....	2,001	8	273	24	66	1,694	1,883	57
17	.....	bushels.....	46,571	26	7,734	400	1,518	40,619	33,817	940
18	Buckwheat.....	acres.....	5	215	.....	374	40	45	150	31
19	.....	bushels.....	53	3,125	.....	5,154	838	646	2,251	355
20	Rye.....	acres.....	1,067	8	1,334	255	208	452	611	246
21	.....	bushels.....	14,905	65	17,296	3,161	4,193	5,796	8,036	2,961
22	Other grains:									
23	Dry edible beans.....	acres.....	.....	3	3	.....	6	23	2	1
24	.....	bushels.....	.....	45	33	419	171	318	26	9
25	Hay and forage:									
26	Total	acres.....	36,136	18,729	31,751	47,949	55,695	48,899	43,955	41,430
27	.....	tons.....	50,857	14,720	41,366	50,082	82,284	66,871	58,830	63,408
28	All tame or cultivated grasses.....	acres.....	35,585	18,646	26,719	47,855	55,500	47,532	40,724	41,221
29	.....	tons.....	50,345	14,651	31,645	49,869	81,385	69,165	52,975	61,762
30	Timothy alone.....	acres.....	20,093	6,736	20,018	34,982	19,440	29,989	19,508	23,039
31	.....	tons.....	28,460	5,542	22,806	36,084	27,477	39,932	24,962	34,380
32	Timothy and clover mixed.....	acres.....	12,838	2,843	3,983	9,092	29,751	14,076	13,932	15,191
33	.....	tons.....	18,414	2,414	4,692	9,876	44,713	18,483	18,258	23,070
34	Clover alone.....	acres.....	2,500	154	1,634	453	6,224	3,190	6,400	2,840
35	.....	tons.....	3,168	186	1,835	556	9,045	4,199	8,040	4,026
36	Alfalfa.....	acres.....	107	1	688	151	42	208	680	57
37	.....	tons.....	259	3	1,683	367	86	441	1,439	160
38	Millet or Hungarian grass.....	acres.....	47	82	163	61	33	147	71	71
39	.....	tons.....	44	102	369	58	26	68	227	104
40	Other tame or cultivated grasses.....	acres.....	.....	8,830	233	3,116	27	36	57	23
41	.....	tons.....	.....	6,404	260	2,928	33	49	22	22
42	Wild, salt, or prairie grasses.....	acres.....	.....	77	20	.....	25	.....	67	7
43	.....	tons.....	.....	49	29	.....	33	.....	67	10
44	Grains cut green.....	acres.....	30	.....	204	86	10	8	.....	2
45	.....	tons.....	30	.....	371	116	74	13	.....	13
46	Coarse forage.....	acres.....	521	6	4,808	6	160	1,350	3,159	200
47	.....	tons.....	482	20	9,321	83	792	3,366	5,764	1,623
48	.....	acres.....	.....	.....	.....	.....	.....	.....	.....	.....
49	.....	tons.....	.....	.....	.....	.....	.....	.....	.....	.....
50	Special crops:									
51	Potatoes.....	acres.....	1,395	856	1,136	3,014	7,973	1,131	1,966	1,095
52	.....	bushels.....	87,406	79,283	106,592	295,107	759,513	113,583	180,525	83,584
53	All other vegetables.....	acres.....	1,006	521	2,204	2,257	1,169	761	1,292	586
54	Tobacco.....	acres.....	8	20	6,194	58	.....	.....	.....	.....
55	.....	pounds.....	3,800	15,123	4,014,594	40,128	277,350	.....	.....	.....
56	Sugar beets.....	acres.....	97	5	.....	.....	.....	261	90	2
57	.....	tons.....	848	5	.....	.....	.....	504	703	15
58	Maple trees.....	number.....	203	720	4,685	340	22,567	47,108	1,959	11,078
59	Maple sugar (made).....	pounds.....	.....	85	93	150	1,971	780	.....	190
60	Maple sirup (made).....	gallons.....	80	299	2,431	137	8,720	17,020	779	4,291
FRUITS AND NUTS										
61	Total	acres.....	128,802	111,618	68,680	323,610	216,528	131,932	127,225	99,452
62	.....	bushels.....	74,487	18,462	16,895	156,642	119,722	100,534	72,013	30,317
63	Apples.....	acres.....	90,767	78,692	40,620	264,899	132,566	88,734	78,817	55,740
64	.....	bushels.....	65,125	14,903	9,736	140,168	88,371	82,431	57,622	24,836
65	Peaches and nectarines.....	acres.....	14,323	24,310	10,658	29,362	27,830	20,457	17,178	19,840
66	.....	bushels.....	3,471	2,871	3,488	9,694	8,438	8,052	3,656	1,740
67	Pears.....	acres.....	4,375	1,582	6,906	3,846	12,270	6,575	8,970	4,841
68	.....	bushels.....	1,515	291	1,338	1,774	6,800	4,856	4,558	1,350
69	Plums and prunes.....	acres.....	10,921	2,523	4,774	12,326	13,343	7,997	8,496	10,569
70	.....	bushels.....	2,051	46	313	1,557	2,022	2,907	1,063	1,274
71	Cherries.....	acres.....	7,944	3,565	4,201	9,327	27,266	7,469	14,553	6,388
72	.....	bushels.....	2,040	220	1,414	2,242	12,629	2,036	4,653	699
73	Quinces.....	acres.....	430	923	1,474	3,829	3,199	618	1,144	1,996
74	.....	bushels.....	281	129	603	1,207	1,454	236	414	414
75	Grapes.....	vines.....	12,168	2,604	3,598	5,215	13,764	12,181	53,469	11,825
76	.....	pounds.....	139,127	30,135	53,615	66,782	312,072	189,106	321,151	112,914
77	Small fruits:									
78	Total	acres.....	26	15	33	252	89	44	102	39
79	.....	quarts.....	15,195	14,605	36,163	379,721	144,226	41,934	141,135	36,430
80	Strawberries.....	acres.....	5	9	13	173	53	20	53	16
81	.....	quarts.....	5,506	9,199	11,456	287,539	95,602	27,601	87,271	24,279
82	Raspberries and loganberries.....	acres.....	13	3	9	53	19	14	28	9
83	.....	quarts.....	5,052	3,238	10,186	53,476	25,468	5,598	25,793	5,290
84	Blackberries and dewberries.....	acres.....	4	2	5	20	12	5	14	3
85	.....	quarts.....	1,278	1,491	3,407	21,009	17,779	3,391	19,834	2,052
86	Nuts.....	acres.....	67	115	42	320	617	245	615	15
87	.....	pounds.....	725	1,745	1,790	8,510	15,835	4,155	8,026	50

¹ Less than 1 acre.

TABLE 5.—SELECTED FARM EXPENSES AND RECEIPTS, BY COUNTIES: 1909—Continued.

1	Labor	Farms reporting.....	1,316	705	1,650	1,939	2,615	1,546	2,354	1,379
2	.....	Cash expended.....	152,736	53,854	244,898	169,316	326,414	141,389	374,695	208,510
3	.....	Rent and board furnished.....	33,189	5,833	67,375	39,639	96,319	30,934	100,296	47,916
4	Fertilizer	Farms reporting.....	27	868	2,109	3,080	800	568	832	832
5	.....	Amount expended.....	763	27,349	36,594	65,806	139,566	17,340	20,613	24,977
6	Feed	Farms reporting.....	289	616	1,090	1,848	1,531	812	778	578
7	.....	Amount expended.....	15,377	29,885	132,500	140,845	93,821	47,852	53,942	74,410
8	Receipts from sale of feedable crops	dollars.....	1,087,186	21,619	326,812	108,365	355,482	396,508	1,244,055	408,100

STATISTICS OF AGRICULTURE.

TABLE 6.—NUMBER AND VALUE OF DOMESTIC ANIMALS NOT ON FARMS, BY COUNTIES: APRIL 15, 1910.

	THE STATE.	Adams.	Allen.	Ashland.	Ashtabula.	Athens.	Auglaize.	Belmont.	Brown.	Butler.
1	Inclousures reporting domestic animals...	120,440	589	1,788	1,039	1,675	1,428	1,036	1,707	1,799
2	Value of domestic animals.....dollars..	25,221,650	105,471	350,736	195,909	263,028	259,423	180,460	304,801	366,592
3	Cattle:									
4	Total number.....	62,388	412	887	532	1,031	1,056	678	1,330	942
5	Value.....dollars..	2,240,857	14,556	32,077	19,947	40,101	34,692	22,041	41,774	31,631
6	Number of dairy cows.....	47,054	313	713	403	898	848	464	990	634
7	Horses:									
8	Total number.....	188,041	738	2,766	1,455	2,112	1,903	1,489	1,962	3,083
9	Value.....dollars..	21,669,209	83,444	304,989	169,207	220,586	206,067	141,773	220,180	320,001
10	Number of mature horses.....	185,341	722	2,715	1,436	2,074	1,864	1,445	1,930	3,064
11	Mules and asses and burros:									
12	Total number.....	6,979	35	53	24	6	133	91	287	55
13	Value.....dollars..	857,961	4,475	7,562	3,705	475	12,410	10,925	36,610	5,325
14	Number of mature mules.....	6,710	34	49	21	5	123	87	284	52
15	Swine:									
16	Total number.....	47,125	388	664	326	153	790	819	705	1,185
17	Value.....dollars..	408,266	2,987	5,195	2,368	1,604	6,194	5,338	6,213	8,661
18	Sheep and goats:									
19	Total number.....	10,002	3	195	135	42	9	94	5	71
20	Value.....dollars..	45,357	9	913	382	262	60	383	24	248

	Carroll.	Cham-paign.	Clark.	Clermont.	Clinton.	Colum-biana.	Coshocton.	Crawford.	Cuyahoga.	Darke.
1	Inclousures reporting domestic animals...	467	1,439	2,057	829	1,199	1,988	1,020	919	1,621
2	Value of domestic animals.....dollars..	84,942	228,018	378,527	117,631	174,036	391,537	192,403	161,092	262,274
3	Cattle:									
4	Total number.....	210	801	941	666	440	889	565	456	857
5	Value.....dollars..	8,330	26,417	34,945	21,813	17,663	31,300	19,100	17,500	26,432
6	Number of dairy cows.....	190	582	733	432	357	743	455	396	553
7	Horses:									
8	Total number.....	554	1,828	3,179	965	1,518	2,843	1,329	1,303	2,176
9	Value.....dollars..	70,900	189,560	320,245	90,314	147,782	339,117	162,498	134,935	228,244
10	Number of mature horses.....	544	1,765	3,120	952	1,479	2,795	1,307	1,289	2,126
11	Mules and asses and burros:									
12	Total number.....	33	37	113	30	47	126	58	31	32
13	Value.....dollars..	3,865	4,385	14,935	3,050	4,495	17,525	6,640	4,375	3,249
14	Number of mature mules.....	33	36	111	28	42	116	53	31	23
15	Swine:									
16	Total number.....	222	966	1,142	315	623	341	540	319	616
17	Value.....dollars..	1,820	7,239	8,387	2,417	4,074	2,790	4,074	2,915	4,338
18	Sheep and goats:									
19	Total number.....	9	89	6	11	5	122	25	194	5
20	Value.....dollars..	27	417	15	37	22	825	91	1,367	20

	Defiance.	Delaware.	Frie.	Fairfield.	Fayette.	Franklin.	Fulton.	Gallia.	Geauga.	Greene.
1	Inclousures reporting domestic animals...	863	909	804	1,552	976	4,625	889	507	1,342
2	Value of domestic animals.....dollars..	155,994	159,432	159,530	309,390	170,221	1,314,040	152,358	90,182	210,634
3	Cattle:									
4	Total number.....	557	508	422	667	387	1,764	545	508	557
5	Value.....dollars..	20,096	17,637	16,393	22,798	15,837	62,400	21,470	14,728	22,741
6	Number of dairy cows.....	422	357	357	495	308	1,303	471	373	458
7	Horses:									
8	Total number.....	1,098	1,267	1,260	2,324	1,352	9,830	1,101	575	1,710
9	Value.....dollars..	131,727	135,786	141,259	275,158	147,267	1,202,736	128,137	71,283	173,801
10	Number of mature horses.....	1,070	1,234	1,251	2,266	1,311	9,663	1,076	566	1,672
11	Mules and asses and burros:									
12	Total number.....	15	27	40	20	20	257	3	14	68
13	Value.....dollars..	1,980	3,520	5,345	3,100	3,100	34,256	325	1,200	6,885
14	Number of mature mules.....	14	26	34	20	20	253	2	7	63
15	Swine:									
16	Total number.....	232	315	223	694	583	1,375	319	376	1,023
17	Value.....dollars..	1,699	2,346	1,724	5,145	3,790	14,074	2,015	2,826	7,099
18	Sheep and goats:									
19	Total number.....	149	47	38	186	35	143	96	55	30
20	Value.....dollars..	492	143	154	944	227	574	411	145	108

	Guernsey.	Hamilton.	Hancock.	Hardin.	Harrison.	Henry.	Highland.	Hocking.	Holmes.	Huron.
1	Inclousures reporting domestic animals...	1,571	5,626	1,671	1,200	631	749	1,270	1,026	1,067
2	Value of domestic animals.....dollars..	270,726	2,503,544	297,246	244,346	134,420	145,252	205,343	158,776	190,453
3	Cattle:									
4	Total number.....	974	3,588	823	616	512	395	742	939	419
5	Value.....dollars..	39,835	159,790	31,435	26,078	17,175	15,732	25,723	26,218	16,822
6	Number of dairy cows.....	854	2,025	674	529	374	324	547	632	354
7	Horses:									
8	Total number.....	1,622	16,930	2,399	1,730	879	970	1,555	1,056	1,554
9	Value.....dollars..	189,052	2,099,365	256,210	202,135	107,537	123,331	165,234	122,192	168,207
10	Number of mature horses.....	1,583	16,884	2,354	1,697	857	951	1,522	1,018	1,532
11	Mules and asses and burros:									
12	Total number.....	313	1,456	53	79	67	31	71	34	21
13	Value.....dollars..	35,525	193,223	6,100	11,442	7,135	4,460	8,331	3,760	3,250
14	Number of mature mules.....	312	1,430	52	76	65	31	70	32	20
15	Swine:									
16	Total number.....	605	3,151	450	501	284	221	815	781	317
17	Value.....dollars..	5,452	46,053	3,243	4,322	2,354	1,724	5,929	6,606	1,938
18	Sheep and goats:									
19	Total number.....	163	851	78	73	55	1	31	239	62
20	Value.....dollars..	892	5,113	258	369	219	5	126	807	235

TABLE 6.—NUMBER AND VALUE OF DOMESTIC ANIMALS NOT ON FARMS, BY COUNTIES: APRIL 15, 1910—Continued.

	Jackson.	Jefferson.	Knox.	Lake.	Lawrence.	Licking.	Logan.	Lorain.	Lucas.	Madison.	
1											
2	Inclosures reporting domestic animals...	1,101	1,725	1,230	667	1,452	1,915	1,399	1,637	2,764	
3	Value of domestic animals.....dollars..	129,766	317,532	236,904	100,819	156,870	366,517	259,147	316,616	660,874	
4	Cattle:										
5	Total number.....	851	1,134	556	373	1,502	686	910	724	892	
6	Value.....dollars..	26,045	39,578	20,772	16,459	42,791	26,184	34,802	29,421	30,241	
7	Number of dairy cows.....	668	942	456	341	1,136	571	709	628	692	
8	Horses:										
9	Total number.....	802	2,008	1,796	833	911	2,820	1,948	2,289	5,397	
10	Value.....dollars..	88,806	236,258	211,500	82,626	90,321	332,589	212,632	283,008	618,458	
11	Number of mature horses.....	781	1,990	1,774	820	888	2,789	1,880	2,274	5,379	
12	Mules and asses and burros:										
13	Total number.....	156	297	16	6	167	35	27	16	53	
14	Value.....dollars..	9,856	37,387	2,075	600	15,675	5,020	4,530	2,055	8,730	
15	Number of mature mules.....	156	294	16	6	164	35	25	11	43	
16	Swine:										
17	Total number.....	603	549	309	134	957	372	741	268	241	
18	Value.....dollars..	5,057	4,185	2,141	1,121	8,065	2,606	5,836	1,994	1,885	
19	Sheep and goats:										
20	Total number.....	1	22	92	2	6	35	351	26	264	
21	Value.....dollars..	2	124	356	13	18	118	1,347	138	1,560	
		Mahoning.	Marion.	Medina.	Meigs.	Mercer.	Miami.	Monroe.	Montgomery.	Morgan.	Morrow.
1	Inclosures reporting domestic animals....	1,985	1,098	902	680	915	1,686	630	3,997	333	593
2	Value of domestic animals.....dollars..	447,945	211,205	165,431	87,036	173,744	272,037	107,128	991,140	73,159	131,388
3	Cattle:										
4	Total number.....	675	550	456	437	488	601	544	1,148	245	397
5	Value.....dollars..	25,485	20,293	17,609	14,648	17,865	22,074	15,481	47,934	8,645	14,094
6	Number of dairy cows.....	568	410	354	361	390	475	393	808	191	308
7	Horses:										
8	Total number.....	3,454	1,592	1,239	539	1,274	2,355	736	7,009	492	810
9	Value.....dollars..	409,897	183,684	144,091	62,720	146,750	238,973	88,047	897,044	57,030	111,853
10	Number of mature horses.....	3,438	1,562	1,230	521	1,236	2,312	720	6,954	483	790
11	Mules and asses and burros:										
12	Total number.....	76	41	13	66	50	51	7	219	50	12
13	Value.....dollars..	10,125	4,520	1,380	5,760	5,804	7,000	820	29,535	6,210	2,500
14	Number of mature mules.....	73	40	13	66	43	41	4	202	50	12
15	Swine:										
16	Total number.....	237	301	243	526	472	509	311	1,285	120	217
17	Value.....dollars..	1,810	2,240	2,123	3,888	3,097	3,960	2,775	15,785	1,087	1,586
18	Sheep and goats:										
19	Total number.....	80	126	55	6	83	5	2	162	60	335
20	Value.....dollars..	628	408	228	20	228	30	5	842	187	1,555
		Muskingum.	Noble.	Ottawa.	Paulding.	Perry.	Pickaway.	Pike.	Portage.	Preble.	Putnam.
1	Inclosures reporting domestic animals....	1,419	385	581	740	1,407	901	333	934	1,000	889
2	Value of domestic animals.....dollars..	301,527	64,940	101,236	148,636	217,855	211,195	55,812	157,876	107,747	180,560
3	Cattle:										
4	Total number.....	489	300	521	486	1,178	507	273	325	389	561
5	Value.....dollars..	16,736	10,423	16,970	18,905	35,695	18,445	8,876	12,041	14,331	20,907
6	Number of dairy cows.....	416	214	351	366	909	384	212	269	280	436
7	Horses:										
8	Total number.....	2,095	444	661	1,036	1,485	1,539	386	1,294	1,353	1,289
9	Value.....dollars..	254,364	50,648	81,981	123,132	165,052	178,880	42,726	142,193	144,787	151,113
10	Number of mature horses.....	2,069	435	652	974	1,430	1,482	373	1,272	1,336	1,258
11	Mules and asses and burros:										
12	Total number.....	183	15	7	28	101	70	16	20	36	38
13	Value.....dollars..	28,060	1,900	1,225	4,345	10,003	8,459	1,650	2,305	4,505	5,000
14	Number of mature mules.....	181	13	6	25	97	65	15	16	33	28
15	Swine:										
16	Total number.....	259	214	141	274	810	721	334	153	411	497
17	Value.....dollars..	2,311	1,646	972	2,237	6,986	4,873	2,412	1,295	3,982	3,309
18	Sheep and goats:										
19	Total number.....	16	76	26	6	35	125	44	5	20	76
20	Value.....dollars..	56	263	88	17	119	538	148	42	142	231
		Richland.	Ross.	Sandusky.	Scioto.	Seneca.	Shelby.	Stark.	Summit.	Trumbull.	Tuscarawas.
1	Inclosures reporting domestic animals....	1,350	1,134	1,280	1,120	1,411	858	2,906	2,118	1,514	1,787
2	Value of domestic animals.....dollars..	274,433	220,554	227,525	190,151	280,480	159,614	638,183	464,572	229,761	336,749
3	Cattle:										
4	Total number.....	650	746	720	767	723	434	863	503	770	784
5	Value.....dollars..	21,970	27,109	24,495	24,598	25,448	14,072	27,981	18,487	27,480	25,453
6	Number of dairy cows.....	491	489	543	572	555	316	652	411	603	607
7	Horses:										
8	Total number.....	2,044	1,728	1,664	1,279	2,042	1,229	4,681	3,636	1,990	2,317
9	Value.....dollars..	236,629	181,231	197,500	146,650	246,808	139,785	591,280	435,736	199,533	281,638
10	Number of mature horses.....	2,013	1,687	1,641	1,263	2,014	1,211	4,641	3,626	1,970	2,289
11	Mules and asses and burros:										
12	Total number.....	74	25	17	120	28	29	112	57	7	217
13	Value.....dollars..	12,020	3,975	2,246	13,703	3,450	3,675	13,560	7,640	885	21,942
14	Number of mature mules.....	72	24	15	115	28	25	111	55	5	200
15	Swine:										
16	Total number.....	360	1,039	421	602	606	360	698	302	209	758
17	Value.....dollars..	2,704	7,888	2,715	5,055	4,243	2,035	4,819	2,343	1,688	7,020
18	Sheep and goats:										
19	Total number.....	236	319	164	24	138	6	129	43	38	190
20	Value.....dollars..	1,110	351	509	145	731	47	543	306	175	696

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TABLE 6.—NUMBER AND VALUE OF DOMESTIC ANIMALS NOT ON FARMS, BY COUNTIES: APRIL 15, 1910—Continued.

	Union.	Van Wert.	Vinton.	Warren.	Washing- ton.	Wayne.	Williams.	Wood.	Wyandot.
1 Inclosures reporting domestic animals.....	1,088	924	237	1,023	1,106	1,761	929	2,122	848
2 Value of domestic animals.....dollars..	230,830	158,688	39,963	160,468	193,868	315,828	160,354	366,290	158,841
Cattle:									
3 Total number.....	628	521	244	478	814	1,097	509	1,653	489
4 Value.....dollars..	25,862	19,570	7,252	17,673	25,534	38,661	19,816	61,035	17,624
5 Number of dairy cows.....	519	384	179	379	665	910	394	1,209	364
Horses:									
6 Total number.....	1,530	1,228	231	1,258	1,434	2,243	1,180	2,592	1,149
7 Value.....dollars..	194,380	132,379	25,965	135,725	155,088	267,432	135,721	291,998	133,415
8 Number of mature horses.....	1,484	1,177	224	1,219	1,414	2,216	1,162	2,540	1,134
Mules and asses and burros:									
9 Total number.....	24	29	46	33	68	26	20	35	33
10 Value.....dollars..	3,357	3,285	5,200	4,420	9,225	3,300	3,100	4,820	3,300
11 Number of mature mules.....	23	28	46	32	65	25	19	35	30
Swine:									
12 Total number.....	599	366	175	346	435	859	175	1,142	476
13 Value.....dollars..	3,737	3,179	1,541	2,588	3,925	5,880	1,194	8,316	3,527
Sheep and goats:									
14 Total number.....	529	43	1	17	7	140	141	26	261
15 Value.....dollars..	3,494	275	5	62	96	555	523	121	975

CHAPTER 4.

STATISTICS OF MANUFACTURES FOR THE STATE, CITIES, AND INDUSTRIES.

Introduction.—This chapter gives the statistics of manufactures for the state of Ohio for the calendar year 1909 as shown by the Thirteenth Census.

The text summarizes the general results of the census inquiry, presenting a series of special tables in which the main facts printed in the general tables are given in convenient form for the state as a whole and for important industries. It also presents tables in which the statistics for the industries of the state as a whole and for a few important industries are classified by character of ownership, size of establishments, number of wage earners, and prevailing hours of labor, information which could not be presented in general tables for each industry without disclosing the facts for individual establishments.

At the end of the chapter are three general tables.

Table I gives for 1909, 1904, and 1899 the number of establishments and of persons engaged in the industries, primary power, capital, salaries and wages, cost of materials, value of products, and value added by manufacture reported for all industries combined and for certain important industries (1) for the state as a whole and (2) for the cities of Akron, Canton, Cincinnati, Cleveland, Columbus, Dayton, Toledo, and Youngstown. It also gives the same items for all industries combined for every city except Lakewood having in 1910 a population of over 10,000 but less than 50,000.

Table II gives statistics in detail for 1909 for the state and for a larger number of industries.

Table III gives statistics in detail for 1909 for the eight cities having 50,000 inhabitants or more, for all industries combined and selected industries, and for each city having from 10,000 to 50,000 inhabitants for all industries combined.

Scope of census: Factory industries.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of organization, location of establishments, size of establishments, labor force, and similar subjects. When use is made of the data for these purposes, it is imperative that due attention should be given to the limitations of the figures. Particularly is this true when the attempt is made to derive from them figures purporting to show average wages, cost of production, or profits. These limitations will be fully discussed in the general report on manufactures for the United States as a whole.

The census of 1909, like that of 1904, was confined to manufacturing establishments conducted under the factory system, as distinguished from the neighborhood, hand, and building industries.

Where statistics for 1899 are given they have been reduced to a comparable basis by eliminating the latter classes of industries. The census does not include establishments which were idle during the entire year, or had a value of products of less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions, or in governmental establishments, except those of the Federal Government.

Period covered.—The returns cover the calendar year 1909, or the business year which corresponds most nearly to that calendar year. The statistics cover a year's operations, except for establishments which began or discontinued business during the year.

The establishment.—The term "establishment" comprises the factories, mills, or plants which are under a common ownership or control, and for which one set of books of account is kept.

If, however, the plants constituting an establishment as thus defined were not all located within the same city or state, separate reports were secured in order that the separate totals might be included in the statistics for each city or state. In some instances separate reports were secured for different industries carried on in the same establishment.

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

Selected industries.—The general tables at the end of this chapter give the principal facts separately for the industries of the state. A selection has been made of the leading industries of the state for more detailed consideration. Sometimes an industry of greater importance than some of those selected is omitted because it comprises so few establishments that these detailed presentations would reveal the operations of individual concerns.

Comparisons with previous censuses.—Owing to the changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. Table I, giving comparable figures for 1909, 1904, and 1899, therefore, does not embrace all the industries shown for 1909 in Table II.

Influence of increased prices.—In considering changes in cost of materials, value of products, and value added by manufacture, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures can not be taken as an exact measure of increase in the volume of business.

Persons engaged in industry.—At the censuses of 1909, 1904, and 1899 the following general classes of persons engaged in manufacturing industries have been distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks, and (5) wage earners. In the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. The second group included the three classes of salaried officers of corporations, superintendents and managers, and clerks. In the present census an entirely different grouping is employed: That into (1) proprietors and officials, (2) clerks, and (3) wage earners. The first group includes proprietors

and firm members, salaried officers of corporations, and superintendents and managers.

At this census the number of persons engaged in the industries, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for December 15, or the nearest representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where conditions were exceptional, and particularly in the case of certain seasonal industries, such as canning, the December date could not be accepted as typical, and an earlier date had to be chosen.

In the case of employees other than wage earners the number thus reported on December 15, or other representative day, has been treated as equivalent to the average for the year, since the number of employees of this class does not vary much from month to month in a given industry. In the case of wage earners the average is obtained in the manner explained in the next paragraph.

Wage earners.—In addition to the report by sex and age of the number of wage earners on December 15, or other representative day, a report was obtained of the number employed on the 15th of each month, without distinction of sex or age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported each month by 12. The average thus obtained represents the number of wage earners that would be required to perform the work done if all were constantly employed during the entire year. Accordingly, the importance of any industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

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

In particular, totals by sex and age for the wage earners reported for the representative day would be misleading because of the undue weight given to seasonal industries, in some of which, such as canning and preserving, the distribution of the wage earners by sex and age is materially different from that in most industries of more regular operation. In order to determine as nearly as possible the sex and age distribution of the average number of wage earners in the state as a whole, the following procedure has been adopted:

The percentage distribution by sex and age of the wage earners in each industry, for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. This percentage has been applied to the average number of wage earners for the year in that industry, to determine the average number of men, women, and children employed. These calculated averages for the several industries have been added up to give the average distribution for the state as a whole.

In 1899 and 1904 the schedule called for the average number of wage earners of each sex 16 years and over, and the total number under 16 years of age, for each month, and these monthly statements were combined in an annual average. Comparatively few manufacturing concerns, however, keep their books in such way as to show readily the number of men, women, and children (under 16) employed each month. These monthly returns by sex and age were, in fact, largely estimates. It was believed that a more accurate and reliable sex and age distribution could be secured by taking as a basis of estimate the actual numbers employed on a single day.

Prevailing hours of labor.—The census made no attempt to ascertain the number of employees working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one period to another are disregarded, and

no attention is given to the fact that a limited number of employees may have hours differing from those of the majority. In the tables all the wage earners of each establishment are counted in the class within which the establishment itself falls. In most establishments, however, all or practically all the employees work the same number of hours, so that these figures give a substantially correct picture of the hours of labor in manufacturing industries.

Capital.—For reasons stated in prior census reports, the statistics of capital secured by the census canvass are so defective as to be without value, except as indicating very general conditions. The instructions on the schedule for securing capital were as follows:

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

Materials.—Cost of materials refers to the materials used during the year, which may be more or less than the materials purchased during the year. The term materials includes fuel, rent of power and heat, mill supplies, and containers, as well as materials forming a constituent part of the product. Fuel includes all fuel used, whether for heat, light, or power, or for the process of manufacture.

Expenses.—Under "Expenses" are included all items of expense incident to the year's business, except interest, whether on bonds or other forms of indebtedness, and allowances for depreciation.

Value of products.—The value of products for any industry includes the total value of all products manufactured in establishments whose products of chief value fall under the industry designation. The amounts given represent the selling value at the factory of all products manufactured during the year, which may differ from the value of the products sold. Amounts received for work on materials furnished by others are included.

Value added by manufacture.—The value of products is not a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing process carried on in the industry itself. Another part of it, and often by far the larger part, represents the value of the materials used, which have been produced by agriculture or mining or by other industrial establishments. For many purposes, therefore, the best measure of the importance of different classes of industry is the value created as the result of the manufacturing operations carried on within the industry. This value is obtained by deducting the cost of the materials consumed from the value of the product. The figure thus obtained is termed in the census reports "value added by manufacture."

There is a further statistical advantage which "value added" has over gross value of products. In combining the value of products for all industries the value of products produced by one establishment and used as materials in another is duplicated, and the total, therefore, gives a greatly exaggerated idea of the wealth created. No such duplication takes place in the total "value added by manufacture."

Cost of manufacture and profits.—Census data do not show the entire cost of manufacture, and consequently can not be used to show profits. No account has been taken of interest and depreciation. Even if the amount of profit could be determined by deducting the expenses from the value of the products, the rate of profit on the investment could not properly be calculated, because of the very defective character of the returns regarding capital.

Primary power.—The figures given for this item show the total of the primary power used by the establishments. They do not cover the power developed by motors operated by such power, the inclusion of which would evidently result in duplication.

Location of establishments.—The Census Bureau has classified establishments by their location in cities or classes of cities. In

interpreting these figures due consideration should be given to the fact that often establishments are located just outside the boundaries of cities, and are necessarily so classified, though locally they are looked upon as constituting a part of the manufacturing interests of the cities.

Laundries.—The census of 1909 was the first to include statistics of laundries. The reports are confined to establishments using

mechanical power. The data are presented separately and are not included in the general total for manufacturing industries, in order to avoid interference with comparisons with prior censuses.

Custom sawmills and gristmills.—In order to make the statistics for 1909 comparable with those for 1904, the data for these mills have been excluded from all the tables presenting general statistics, and are given in a separate table at the end of this chapter.

INDUSTRIES IN GENERAL.

General character of the state.—Ohio, with a gross area of 41,040 square miles, of which 300 represent water surface, and a population in 1910 of 4,767,121, ranks thirty-fifth in area and fourth in population among the states of the Union. Its population was 4,157,545 in 1900 and 3,672,329 in 1890. In 1910 the density of population for the entire state was 117 per square mile, the corresponding figure for 1900 being 102.1. Fifty-five and nine-tenths per cent of the entire population of the state resided in 1910 in incorporated cities and villages having a population of 2,500 or over as against 48.1 per cent in 1900.

In 1910 eight cities in the state had a population of over 50,000, as follows: Cleveland, 560,663; Cincinnati, 363,591; Columbus, 181,511; Toledo, 168,497; Dayton, 116,577; Youngstown, 79,066; Akron, 69,067; and Canton, 50,217. There were also 29 cities having a population of over 10,000 but less than 50,000. (See table on page 700.) These 37 cities contained 45 per cent of the total population of the state and, excluding Lakewood, were credited in 1909 with 74.9 per cent of the total value of its manufactures. Apart from these cities, only 10.9 per cent of the population resided in incorporated places of 2,500 inhabitants or over.

The industrial prominence of Ohio is due in the main to its many natural resources, among the most important of which are a fertile soil, extensive hardwood forests, and abundant supplies of coal, natural gas, and petroleum. Furthermore, the splendid advantages afforded for transportation by water as well as by rail can not be overestimated. Lake Erie and the Erie Canal make a direct outlet to the Atlantic seaboard, and the western Great Lakes and the Sault Ste. Marie Canal furnish a water route to the Northwest states, while the Ohio River, which forms 436 miles of the southern boundary of the state, and its tributary, the Muskingum River, furnish communication with Pennsylvania and the states of the Mississippi Valley.

Two canals, one from Cleveland to Portsmouth and the other from Toledo to Cincinnati, connect Lake Erie with the Ohio River. In 1909 there were 9,079¹ miles of main and branch lines of steam railroad within the borders of the state. The growth of interurban electric systems in the state has stimulated its manufactures and has added greatly to its facilities for local trade. Ohio is the fifth state of the Union in the mileage of steam railways and second in the mileage of electric railways.

Importance and growth of manufactures.—Although mining and agriculture are important, Ohio is largely a manufacturing state. Its early industrial development was due in part to its excellent location, since its manufactures received an impetus from the rapid settlement of the Mississippi Valley, which opened a market for manufactured products in which the Eastern states were unable to compete with success. The growth of manufactures in the state has been substantial. In 1849 the total value of products for Ohio, including the products of the neighborhood and hand industries, amounted to \$62,692,279, while in 1909, exclusive of the value of the products of the neighborhood and hand industries, it reached \$1,437,935,817, a figure about twenty-three times that of 60 years before. During the same period the population of the state increased 140.7 per cent and the gross value of products per capita of the total population of the state increased from \$32 to \$302. However, the proportion of the total value of the products of manufacturing industries in the United States which is contributed by Ohio has changed but slightly, having been 6.2 per cent in 1849 and 7 per cent in 1909. In 1849 an average of 51,491 wage earners, representing 2.6 per cent of the total population, were engaged in manufactures, and in 1909 an average of 446,934 wage earners, or 9.4 per cent of the total population, were so engaged. The state ranked fourth among the states of the Union in gross value of manufactured products at each census from 1849 to 1869. In 1879, however, it dropped to the fifth place, a position which it has retained at each subsequent census.

The first table on the following page gives the most important figures relative to all classes of manufactures combined for 1909, 1904, and 1899, together with the percentages of increase from census to census.

In 1909 the state of Ohio had 15,138 manufacturing establishments, which gave employment to an average of 523,004 persons during the year and paid out \$317,597,000 in salaries and wages. Of the persons employed, 446,934 were wage earners. These establishments turned out products to the value of \$1,437,936,000, to produce which materials costing \$824,202,000 were utilized. The value added by manufacture was thus \$613,734,000, which figure, as explained in the Introduction, best represents the net wealth created by manufacturing operations during the year.

The totals presented in the tables of this chapter do not include the statistics for an establishment operated by the Federal Government, the National Home for

¹ Interstate Commerce Commission, Statistics of Railways in the United States, 1909.

Disabled Volunteer Soldiers, located outside the corporate limits of Dayton, in Montgomery County. In 1909 this establishment employed an average of 228

wage earners and turned out products, such as uniform clothing, underwear, and bedding, equivalent to \$217,622 in value.

	NUMBER OR AMOUNT.			PER CENT OF INCREASE. ¹	
	1909	1904	1899	1904-1909	1899-1904
Number of establishments.....	15,138	13,785	13,868	9.8	-0.6
Persons engaged in manufactures.....	523,004	417,946	(²)	25.1	-----
Proprietors and firm members.....	14,719	13,657	(²)	7.8	-----
Salaried employees.....	61,351	39,991	28,109	53.4	42.3
Wage earners (average number).....	446,934	364,298	308,109	22.7	18.2
Primary horsepower.....	1,583,155	1,116,932	783,665	41.7	42.5
Capital.....	\$1,300,733,000	\$856,989,000	\$570,909,000	51.8	50.1
Expenses.....	1,282,845,000	856,206,000	637,576,000	49.8	34.3
Services.....	317,597,000	225,864,000	164,579,000	40.6	37.2
Salaries.....	72,147,000	43,435,000	28,151,000	66.1	54.3
Wages.....	245,450,000	182,429,000	136,428,000	34.5	33.7
Materials.....	824,202,000	527,637,000	409,303,000	56.2	28.9
Miscellaneous.....	141,046,000	102,705,000	63,694,000	37.3	61.2
Value of products.....	1,437,936,000	960,812,000	748,671,000	49.7	28.3
Value added by manufacture (value of products less cost of materials).....	613,734,000	433,175,000	339,368,000	41.7	27.6

¹ A minus sign (-) denotes decrease.

² Figures not available.

In general, this table brings out the fact that the manufacturing industries of Ohio as a whole showed a greater development during the more recent five-year period, 1904-1909, than during the preceding five-year period, 1899-1904. During the later period the number of establishments increased 9.8 per cent and the average number of wage earners 22.7 per cent, while the value of products increased 49.7 per cent and the value added by manufacture 41.7 per cent. As pointed out in the Introduction, it would be improper to infer that manufactures had increased in vol-

ume to the full extent indicated by these figures representing values, since a considerable part of the increase shown is certainly due to the increase that has taken place in the price of commodities during the period covered by the statistics. The only decrease shown in the table is in the number of establishments during the period 1899-1904, amounting to six-tenths of 1 per cent.

The relative importance and growth of the leading manufacturing industries of the state are shown in the following table:

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		PER CENT OF INCREASE. ¹			
		Average number.	Per cent distribution.	Amount.	Per cent distribution.	Amount.	Per cent distribution.	Value of products.		Value added by manufacture.	
								1904-1909	1899-1904	1904-1909	1899-1904
All industries.....	15,138	446,934	100.0	\$1,437,936,000	100.0	\$613,734,000	100.0	49.7	28.3	41.7	27.6
Iron and steel, steel works and rolling mills.....	75	38,586	8.6	197,780,000	13.8	58,537,000	9.5	76.6	13.6	73.3	9.8
Foundry and machine-shop products.....	1,218	64,817	14.5	145,837,000	10.1	81,277,000	13.2	40.6	17.3	37.4	19.9
Iron and steel, blast furnaces.....	40	7,295	1.6	83,699,000	5.8	15,274,000	2.5	104.8	1.2	82.2	-50.2
Slaughtering and meat packing.....	158	3,086	0.7	50,804,000	3.5	6,457,000	1.1	74.3	40.4	68.0	39.2
Flour-mill and gristmill products.....	673	2,585	0.6	48,093,000	3.4	6,740,000	1.1	17.7	16.5	28.9	2.7
Printing and publishing.....	1,655	15,756	3.5	41,657,000	2.9	29,753,000	4.8	33.0	31.4	31.4	34.3
Automobiles, including bodies and parts.....	75	12,130	2.7	38,839,000	2.7	20,317,000	3.3	510.9	4,284.8	434.0	4,376.5
Lumber and timber products.....	1,390	13,456	3.0	34,597,000	2.4	14,625,000	2.4	5.1	0.3	-3.7	-3.2
Boots and shoes, including cut stock and findings.....	72	16,026	3.6	31,551,000	2.2	12,679,000	2.1	22.6	41.0	18.0	54.9
Tobacco manufactures.....	1,146	12,631	2.8	28,907,000	2.0	16,832,000	2.7	41.1	20.6	29.6	14.4
Cars and general shop construction and repairs by steam-railroad companies.....	71	20,728	4.6	28,690,000	2.0	14,424,000	2.4	33.9	65.1	28.8	59.8
Liquors, malt.....	105	4,356	1.0	25,332,000	1.8	18,769,000	3.1	17.2	19.0	19.8	12.2
Clothing, men's, including shirts.....	342	9,950	2.2	24,869,000	1.7	11,949,000	1.9	28.5	11.7	27.0	20.0
Bread and other bakery products.....	1,467	5,972	1.3	23,007,000	1.6	9,341,000	1.5	47.1	58.7	41.9	48.6
Carriages and wagons and materials.....	407	8,815	2.0	21,949,000	1.5	10,535,000	1.7	-8.6	5.3	-5.5	4.9
Pottery, terra-cotta, and fire-clay products.....	186	16,519	3.7	21,173,000	1.5	14,712,000	2.4	14.1	56.5	7.2	59.2
Clothing, women's.....	153	8,843	2.0	19,493,000	1.4	9,202,000	1.5	52.2	64.7	52.5	81.6
Copper, tin, and sheet-iron products.....	221	6,598	1.5	19,086,000	1.3	7,464,000	1.2	102.7	75.1	83.3	87.6
Electrical machinery, apparatus, and supplies.....	115	8,073	1.8	18,777,000	1.3	11,551,000	1.9	70.4	69.4	82.8	99.6
Soap.....	44	1,774	0.4	17,077,000	1.2	5,416,000	0.9	44.8	-----	59.5	-----
Paper and wood pulp.....	47	4,673	1.0	16,965,000	1.2	6,067,000	1.0	54.8	67.5	26.2	73.3
Furniture and refrigerators.....	228	8,232	1.8	16,259,000	1.1	9,017,000	1.5	17.6	45.3	8.9	51.3
Stoves and furnaces, including gas and oil stoves.....	102	7,274	1.6	15,358,000	1.1	9,058,000	1.5	50.7	-----	46.4	-----
Agricultural implements.....	55	5,997	1.3	14,440,000	1.0	8,121,000	1.3	12.0	-7.8	12.8	-9.0
Glass.....	45	10,159	2.3	14,358,000	1.0	9,670,000	1.6	59.1	98.5	56.2	87.9
Paint and varnish.....	87	1,535	0.3	13,617,000	1.0	5,047,000	0.8	59.6	27.2	88.7	3.3
Liquors, distilled.....	17	374	0.1	12,011,000	0.8	9,497,000	1.5	-24.8	28.4	-24.4	14.2
Coffee and spice, roasting and grinding.....	39	762	0.2	11,224,000	0.8	2,947,000	0.5	12.7	70.2	26.4	104.4
Petroleum, refining.....	10	1,659	0.4	10,754,000	0.8	2,609,000	0.4	-1.8	30.4	-20.6	48.1
Leather, tanned, curried, and finished.....	36	1,884	0.4	10,128,000	0.7	2,408,000	0.4	55.5	25.7	17.4	45.7

¹ Percentages are based on figures in Table I; a minus sign (-) denotes decrease. Where the percentages are omitted, comparable figures can not be given.

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		PER CENT OF INCREASE. ¹			
		Average number.	Per cent distribution.	Amount.	Per cent distribution.	Amount.	Per cent distribution.	Value of products.		Value added by manufacture.	
								1904-1909	1899-1904	1904-1909	1899-1904
Butter, cheese, and condensed milk.....	325	1,067	0.2	\$9,690,000	0.7	\$2,005,000	0.3	111.0	20.6	132.1	14.6
Brick and tile.....	517	7,466	1.7	9,358,000	0.7	7,154,000	1.2	31.1	54.1	30.0	50.8
Tin plate and terneplate.....	4	676	0.2	7,888,000	0.5	734,000	0.1				
Chemicals.....	33	1,132	0.3	7,742,000	0.5	2,994,000	0.5	68.7	28.4	88.7	6.4
Woolen, worsted, and felt goods, and wool hats.....	20	2,566	0.6	7,690,000	0.5	3,074,000	0.5	114.4	26.9	112.0	26.6
Confectionery.....	114	2,493	0.6	7,307,000	0.5	3,218,000	0.5	55.1	23.2	31.9	34.0
Brass and bronze products.....	82	2,232	0.5	6,572,000	0.5	3,039,000	0.5	96.4	46.0	68.6	43.7
Cars, steam-railroad, not including operations of railroad companies.....	6	2,282	0.5	6,451,000	0.4	2,256,000	0.4	16.5	40.5	3.4	89.7
Hosiery and knit goods.....	39	3,149	0.7	6,433,000	0.4	2,582,000	0.4	60.9	152.2	41.9	134.8
Paper goods, not elsewhere specified.....	28	2,040	0.5	6,307,000	0.4	2,873,000	0.5	58.7	47.6	34.4	63.4
Sewing machines, cases, and attachments.....	4	3,831	0.9	5,972,000	0.4	3,454,000	0.6	53.8	32.8	66.1	40.8
Patent medicines and compounds and druggists' preparations.....	261	905	0.2	5,859,000	0.4	3,971,000	0.6	-20.5	52.2	-24.4	54.6
Safes and vaults.....	10	2,014	0.5	5,488,000	0.4	3,326,000	0.5	12.1	103.3	16.8	121.6
Cutlery and tools, not elsewhere specified.....	70	2,820	0.6	5,036,000	0.4	3,386,000	0.6	41.2	46.1	46.5	47.1
Leather goods.....	86	1,890	0.4	4,939,000	0.3	2,080,000	0.3	-9.3	19.4	-17.2	40.4
Canning and preserving.....	107	2,009	0.4	4,660,000	0.3	1,558,000	0.3	3.8	38.3	-13.0	36.0
Fertilizers.....	27	841	0.2	4,435,000	0.3	1,900,000	0.3	93.8	38.1	110.4	41.1
Musical instruments, pianos and organs and materials.....	30	1,841	0.4	3,920,000	0.3	2,004,000	0.3	6.6	153.9	-2.7	177.9
Marble and stone work.....	198	2,012	0.5	3,847,000	0.3	2,397,000	0.4	-20.9	59.0	-23.4	62.5
Boxes, fancy and paper.....	46	2,530	0.6	3,635,000	0.3	1,704,000	0.3	70.4	51.5	60.6	34.6
Oil, linseed.....	4	213	(²)	3,627,000	0.3	546,000	0.1	51.1	-23.0	106.0	17.3
Gas and electric fixtures and lamps and reflectors.....	56	1,437	0.3	3,563,000	0.2	1,786,000	0.3	177.5	22.8	123.2	27.6
Cooperage and wooden goods, not elsewhere specified.....	113	1,663	0.4	3,516,000	0.2	1,300,000	0.2	-1.2	36.3	-18.3	26.5
Mattresses and spring beds.....	38	961	0.2	3,307,000	0.2	1,625,000	0.3	44.0	135.5	79.8	128.3
Gas, illuminating and heating.....	38	666	0.1	3,080,000	0.2	2,253,000	0.4	-36.0	22.4	-35.0	13.8
Coffins, burial cases, and undertakers' goods.....	24	1,245	0.3	3,061,000	0.2	1,737,000	0.3	21.3	40.1	28.9	45.1
Flags, banners, regalia, society badges, and emblems.....	13	1,262	0.3	3,026,000	0.2	1,517,000	0.2	34.1	25.7	22.9	57.4
Pumps, not including steam pumps.....	20	897	0.2	2,747,000	0.2	1,476,000	0.2	308.8	248.2	225.1	340.8
Millinery and lace goods.....	31	1,357	0.3	2,744,000	0.2	1,285,000	0.2	360.4	8.8	317.2	37.5
Cordage and twine and jute and linen goods.....	8	791	0.2	2,728,000	0.2	744,000	0.1	-16.1	9.9	1.6	15.8
Bags, paper.....	8	557	0.1	2,393,000	0.2	755,000	0.1	58.2	110.4	35.3	168.3
Bicycles, motorcycles, and parts.....	6	942	0.2	2,308,000	0.2	1,242,000	0.2	121.7	-74.6	112.7	-68.4
Ice, manufactured.....	97	892	0.2	2,270,000	0.2	1,706,000	0.3	86.5	108.7	84.4	107.9
Firearms and ammunition.....	5	813	0.2	2,215,000	0.2	924,000	0.2	15.4	130.8	32.0	162.2
Clocks and watches, including cases and materials.....	9	1,456	0.3	1,981,000	0.1	1,455,000	0.2	6.0	27.4	26.0	16.4
Cars, street-railroad, not including operations of railroad companies.....	4	734	0.2	1,955,000	0.1	861,000	0.1	6.9	239.8	13.4	147.2
Ink, printing.....	8	183	(²)	1,907,000	0.1	1,098,000	0.2	44.6	86.6	20.4	174.7
Salt.....	8	648	0.1	1,807,000	0.1	717,000	0.1	54.7	42.8	42.0	28.2
Explosives.....	11	358	0.1	1,719,000	0.1	615,000	0.1	-6.7	38.6	8.3	2.0
Cars and general shop construction and repairs by street-railroad companies.....	49	1,318	0.3	1,691,000	0.1	890,000	0.1	883.1	-30.9	660.7	-24.5
Lime.....	39	1,273	0.3	1,620,000	0.1	1,022,000	0.2	21.4		27.4	
Grindstones.....	9	1,277	0.3	1,498,000	0.1	1,113,000	0.2	189.7	-42.9	197.6	-46.5
Cement.....	9	887	0.2	1,465,000	0.1	827,000	0.1	-2.9		-15.1	
Artificial stone.....	299	802	0.2	1,378,000	0.1	879,000	0.1	209.0		215.1	
Butter, reworking.....	5	47	(²)	1,356,000	0.1	128,000	(²)	28.7		-33.0	
Liquors, vinous.....	29	149	(²)	1,304,000	0.1	586,000	0.1	-2.3	66.5	-9.0	72.7
Shoddy.....	4	438	0.1	1,257,000	0.1	515,000	0.1	1.5	-16.2	77.0	-27.4
Jewelry.....	35	356	0.1	1,255,000	0.1	636,000	0.1	92.2	-24.4	50.0	21.5
Dairy-men's, poultryers', and apiarists' supplies.....	18	479	0.1	1,149,000	0.1	622,000	0.1	34.9		43.6	
Belting and hose, leather.....	8	107	(²)	1,080,000	0.1	285,000	(²)	43.4	-9.9	40.4	2.5
Umbrellas and canes.....	15	287	0.1	1,005,000	0.1	398,000	0.1	20.6	67.9	15.4	72.5
Wall plaster.....	23	259	0.1	935,000	0.1	501,000	0.1	-8.8		-23.5	
Coke.....	4	246	0.1	851,000	0.1	211,000	(²)	228.6	1.0	137.1	-23.9
Hats and caps, other than felt, straw, and wool.....	25	406	0.1	804,000	0.1	382,000	0.1	25.2	-36.1	3.2	14.2
Boxes, cigar.....	31	531	0.1	711,000	(²)	351,000	0.1	6.3	3.7	19.0	-3.3
Blacking and cleansing and polishing preparations.....	49	103	(²)	672,000	(²)	375,000	0.1	342.1	-3.2	316.7	(³)
Models and patterns, not including paper patterns.....	74	441	0.1	670,000	(²)	511,000	0.1	73.6	-5.2	55.8	-0.9
Show cases.....	14	349	0.1	668,000	(²)	361,000	0.1	-10.8	296.3	-17.0	302.8
Screws, machine.....	6	324	0.1	593,000	(²)	420,000	0.1	-24.6		-14.6	
Photo-engraving.....	20	277	0.1	576,000	(²)	467,000	0.1	79.4	38.4	63.9	54.1
All other industries.....	1,586	53,162	11.9	185,872,000	12.9	82,608,000	13.5				

¹ Percentages are based on figures in Table I; a minus sign (-) denotes decrease. Where the percentages are omitted, comparable figures can not be given.
² Less than one-tenth of 1 per cent. ³ Value added by manufacture the same both years.

It should be borne in mind, in considering this table, that the value of products in some of the industries involves a certain amount of duplication, due to the use of the product of one establishment in the industry as material for another establishment.

The foregoing table specifies 90 industries or industry groups which had in 1909 a product in excess of \$500,000 in value. Of these industries there are 4 whose product exceeds \$50,000,000 in value; 8, with

a product between \$25,000,000 and \$50,000,000 in value; and 18, with a product between \$10,000,000 and \$25,000,000 in value, making an aggregate of 30 industries each of which had a product exceeding \$10,000,000 in value. Mention is also made of 14 other industries with a product between \$5,000,000 and \$10,000,000 in value; 37, with a product of \$1,000,000 to \$5,000,000 in value; and 9, with a product between \$500,000 and \$1,000,000 in value.

Of the industries included under the head of "All other industries," rubber goods, "not elsewhere specified," which covers the manufacture of rubber tires, clothing, mats, type, springs, tubing, brushes, bands, etc., is the most important. It is shown separately for 1909 in Table II, page 740, but comparative statistics for the different census years can not be given on account of changes in classification. The classification as used at the census of 1904 was "Rubber and elastic goods," but in 1909 the same classes of establishments were distributed and included with other establishments under two headings: "Rubber goods, not elsewhere specified," and "Suspenders, garters, and elastic woven goods," the latter being a subclass of men's furnishing goods. A total of 37 establishments in the state were engaged primarily during 1909 in the manufacture of rubber goods, employing an average of 10,382 wage earners and turning out products valued at \$53,911,000. These figures represent 2.3 per cent of the wage earners and 3.7 per cent of the products reported for all industries in the state combined. This industry ranked fourth in 1909, as measured by value of products, among the industries in the state, having grown decidedly during recent years, mainly on account of the increased demand for rubber tires, the value of which represented over one-half of the total value of products reported for the industry.

In addition to the industries presented separately in the foregoing table and the manufacture of rubber goods, there are 34 important industries in the state which had a value of product in 1909 in excess of \$1,000,000, distributed as follows: Twenty-nine, with \$1,000,000 but less than \$5,000,000; 3, with \$5,000,000 but less than \$10,000,000; and 2, with \$10,000,000 and over.¹ These industries are included under the head of "All other industries" in the table, in some instances because the operations of individual establishments would be disclosed if they were shown separately; in others, because the returns do not properly present the true condition of the industry, for the reason that it is more or less interwoven with one or more industries of similar character; and for still others, because comparative statistics can not be presented for either 1904 or 1899 on account of changes in classification or because such figures would disclose the operations of individual establishments. However, for several of these industries, namely, the manufacture of babbitt

¹ These industries are:

Awings, tents, and sails.
Babbitt metal and solder.
Bags, other than paper.
Belting and hose, woven and rubber.
Brooms.
Brushes.
Carriages and sleds, children's.
Cash registers and calculating machines.
Clothing, horse.
Cordials and sirups.
Flavoring extracts.
Food preparations.
Furnishing goods, men's.
Galvanizing.
Grease and tallow.
House-furnishing goods, not elsewhere specified.
Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills.

Iron and steel forgings.
Iron and steel pipe, wrought.
Locomotives, not made by railroad companies.
Matches.
Mineral and soda waters.
Oil, cottonseed, and cake.
Oilcloth and linoleum.
Roofing materials.
Scales and balances.
Shipbuilding, including boat building.
Signs and advertising novelties.
Stationery goods, not elsewhere specified.
Waste.
Wire.
Wirework, including wire rope and cable.
Wood, turned and carved.

metal and solder, woven and rubber belting and hose, brooms, brushes, men's furnishing goods, shipbuilding, including boat building, and the manufacture of signs and advertising novelties, the statistics for 1909 are presented separately in Table II, page 740.

The first 11 industries noted in the preceding table represent about one-half of the gross value of manufactured products in the state, but there are a large number which are of considerable importance. Furthermore, it will be seen from Table II that there is a wide diversity in the manufacturing activities of the state, since of the 264 classifications used for compiling statistics of manufactures for 1909 in the United States, 218 were represented in Ohio. The leading products of the state for which comparable figures are presented are those of steel works and rolling mills, foundries and machine shops, blast furnaces, and slaughtering and meat-packing establishments. Fourteen industries or groups of industries important in Ohio call for special consideration.

Iron and steel.—The steel works and rolling mills and the blast furnaces rank first and third, respectively, among the industries of the state. With these may be grouped, for convenience of presentation, the tin-plate and terneplate industry. Combined, the three allied industries gave employment in 1909 to an average of 46,557 wage earners, and turned out products valued at \$289,368,000, or 10.4 per cent and 20.1 per cent of the respective totals for all manufactures in the state. These figures also represent an increase over 1899 in the number of wage earners of 12,183, or 35.4 per cent, and in the value of products of \$144,409,000, or 99.6 per cent. The classification "Steel works and rolling mills" includes establishments engaged in the manufacture of steel and the hot rolling of iron and steel. It also includes the making of forgings and castings and the manufacture of rolled iron and steel into more highly finished forms when conducted as a part of the rolling-mill operations, as well as the few forges and bloomeries which are still extant. Blast furnaces include establishments engaged in the manufacture of pig iron from the ore.

The plating of sheet metal with tin or with terne mixture (an alloy of lead and tin) is treated as a separate industry, notwithstanding the fact that nearly all of the establishments so engaged roll their plates. The tin-plate and terneplate departments of the steel works and rolling mills, however, have been treated as separate establishments. Measured by value of products, Ohio ranks second among the states of the Union in the combined industries, and also in each of the two leading branches, and third in tin plate and terneplate, contributing \$197,780,000, or 20.1 per cent of the total value reported in 1909 for all steel works and rolling mills in the United States; \$83,699,000, or 21.4 per cent of the total for all blast furnaces; and \$7,889,000, or 16.4 per cent of the total for all tin-plate and terneplate mills. In the value of products each of the three industries showed remark-

able gains from 1899 to 1909, the largest percentage of increase, 107.3 per cent, being shown for blast furnaces. Ohio is not important in the production of iron ore, but the output of the great ore mines of the Lake Superior region is handled largely at the state's lake ports and the necessary coke required for the operation of blast furnaces is readily procurable from the near-by Connellsville (Pa.) ovens.

Foundry and machine-shop products.—Products of great diversity enter into the group of foundry and machine-shop products, which includes not only the output of general foundries and machine shops, but also that of establishments engaged in the manufacture of bells, gas machines and gas and water meters, hardware, plumbers' supplies, steam fittings and heating apparatus, structural ironwork, and cast-iron and cast-steel pipe, all of which, with the exception of the last named, were shown under separate headings at the census of 1904. The foundry and machine-shop industry in its broadest sense is of even greater importance in the state than is indicated by the statistics placed under this specific title, for the reason that some machine shops manufacture a special product, such as locomotives, electrical machinery, stoves and furnaces, cash registers and calculating machines, and sewing machines, which are assigned to other classifications. A number of the most important establishments included under this head were engaged in the manufacture of machinery and appliances for handling coal, ore, dirt, and stone, and the manufacture of steam boilers, air and gas compressors and pumping machinery, cast-iron pipe and fittings, and structural and ornamental ironwork. The foundry and machine-shop industry gave employment to an average of 64,817 wage earners in 1909, which was 14.5 per cent of the total reported for all manufactures, and was the largest number shown for any of the industries specified in the table. The total value of products, \$145,837,000, in 1909 was \$42,124,000, or 40.6 per cent, more than that reported in 1904. Ohio is the third state of the Union in manufactures of this class.

Slaughtering and meat packing.—This classification includes establishments doing wholesale slaughtering and meat packing and those engaged in the manufacture of sausage only. It does not include the numerous slaughterhouses killing for the retail trade, which slaughter a large number of animals. The earliest packing houses in the state were flatboats on the Ohio River, and, as early as 1803 beef and pork were shipped from Cincinnati to New Orleans.¹ The pioneer establishment of the western packing industry, as now understood, was founded in Cincinnati about 1818.² Cincinnati has long been the chief center of the slaughtering and meat-packing industry in the state, but the proportion of the total value of such products for the state which this city contributed

has been growing smaller during the last decade, being 49.9 per cent in 1899, 46.3 per cent in 1904, and 38 per cent in 1909. Cleveland ranked second, with products in 1909 valued at \$17,192,000, or 33.8 per cent of the total for the industry in the state. The value of products for this industry in Ohio increased from \$20,768,000 in 1899 to \$29,155,000 in 1904, and \$50,804,000 in 1909, when the total was \$30,036,000, or 144.6 per cent, greater than in 1899. The percentages of increase during the five-year period 1904-1909 in value of products and value added by manufacture were nearly twice as great as during the preceding five-year period, 1899-1904. Of the 158 establishments reported for the industry as a whole in 1909, 68 were engaged in both wholesale slaughtering and meat packing, 69 in slaughtering only, and 21 in the manufacture of sausage only, the value of the output of these three branches representing 83.4 per cent, 14.6 per cent, and 2 per cent, respectively, of the total value for the combined industry. For the last two censuses Ohio has ranked eighth among the states in this industry, having risen from ninth place in 1899.

Flour-mill and gristmill products.—The statistics for all merchant mills grinding wheat, rye, buckwheat, corn, or other grain are included in this classification. It does not, however, include factories making fancy cereals or other food preparations as a chief product, or mills doing custom grinding exclusively, the statistics for the latter mills being presented separately on page 724. Flour and grist milling is one of the oldest industries in Ohio, flour having been sent to New Orleans from this state as early as 1803.¹ Owing to the large quantities of cereals raised in Ohio and its close proximity to the other great grain-growing states, this industry has retained its prominence among the manufacturing industries of the state. As early as 1849 there were 1,062 flour mills and gristmills in the state and the total output was valued at \$14,372,000. In 1899 the value of the output had reached \$35,078,000, an increase for the 50 years of \$20,706,000, or 144.1 per cent. The value of flour-mill and gristmill products was \$40,856,000 in 1904 and \$48,093,000 in 1909, representing an increase of \$5,778,000, or 16.5 per cent, for the five-year period 1899-1904, and one of \$7,237,000, or 17.7 per cent, for the five-year period 1904-1909. Notwithstanding these gains, the rank of Ohio among the states in this industry, as measured by value of products, dropped from third place in 1899 to fourth place in 1904 and to fifth place in 1909.

Clothing.—While neither the manufacture of men's clothing nor of women's clothing is among the first twelve industries of Ohio, the two industries considered together had a combined output for 1909 valued at \$44,362,000, which was more than that reported for printing and publishing, the sixth industry presented separately in the preceding table.

¹ The Journal of a Tour into the Territory Northwest of the Allegheny Mountains in the year 1803, by T. M. Harris, p. 146.

² Philip D. Armour, in One Hundred Years of American Commerce, vol. 2, p. 383.

The increase in value of products from 1904 to 1909 was \$12,212,000, or 38 per cent, and that from 1899 to 1904, \$7,065,000, or 28.2 per cent. In 1849 Ohio, with a total of \$2,765,232, which includes the value of the output for custom tailoring, dressmaking, and repairing establishments, was the fourth state in the Union in the manufacture of clothing, as measured by value of products. At the census of 1889, when the first attempt was made to segregate the statistics in order to show separately the establishments manufacturing clothing under the factory system, the output was valued at \$25,525,751, Ohio was the fifth state of the United States in the combined industries, but it advanced to fourth place in 1899 and has retained this position at each subsequent census. The value of men's clothing has represented more than half of the total value of all clothing manufactured at each census year, but since 1889 the proportion which was contributed by this branch has decreased constantly. The manufacture of women's clothing has increased rapidly; the total value was \$4,352,000 in 1889, \$7,773,000 in 1899, and \$19,493,000 in 1909.

Printing and publishing.—Under this head are included job-printing establishments, the printing and publishing of books, newspapers and periodicals, and of music, bookbinding and blank-book making, steel engraving, and lithographing. Of the 1,655 establishments reported in 1909, a larger number than was shown for any other single industry in the state (890) were engaged primarily in printing and publishing newspapers and periodicals and employed an average of 6,462 wage earners and reported products valued at \$21,453,000. These totals represent increases over the corresponding figures for 1904 of 4.3 per cent in wage earners and 30.7 per cent in the value of products. The industry as a whole shows an advance of 33 per cent in the value of products from 1904 to 1909, which was slightly more than the relative gain shown for the preceding five-year period. The absolute increase in the value of products from 1904 to 1909 was \$10,330,000, and from 1899 to 1904 was \$7,494,000.

Automobiles, including bodies and parts.—This classification includes, besides the articles mentioned in the industry designation, the manufacture of automobile accessories, but this latter branch of the industry covers a wide field and is to a considerable extent interwoven with other industries. A number of foundries and machine shops incidentally manufactured automobile accessories and parts, and a number of establishments classified under the head of "Rubber goods, not elsewhere specified," manufactured automobile tires. Furthermore, many electrical attachments and motors for automobiles were made in establishments engaged in the general manufacture of electrical machinery, apparatus, and supplies, and considerable quantities of brass fixtures used in connection with the manufac-

ture of automobiles were produced in establishments engaged primarily in the manufacture of brass and bronze products. The decided growth from 1904 to 1909 of each of these three industries was due in large measure to the remarkable development in the automobile industry. In 1899 there were only three establishments in the state engaged in the manufacture of automobiles, and the total value of their products for that year was only \$145,000. In 1904, 22 establishments, with products valued at \$6,358,000, were reported, while in 1909 there were 75 establishments the output of which was valued at \$38,839,000. Measured by value of products, Ohio was, in 1899, the sixth state in the Union in the manufacture of automobiles, but advanced to second place in 1904, a position which was retained in 1909. The proportion which Ohio contributed of the total value of products reported for the automobile industry in the United States was 3.1 per cent in 1899, 21.2 per cent in 1904, and 15.6 per cent in 1909.

Liquors.—The manufacture of distilled, malt, and vinous liquors forms a very important group of industries in Ohio. The combined output for 1909 was valued at \$38,647,000, and \$28,852,000 (including \$12,560,000 for internal-revenue tax) was added to the materials by the process of manufacture. These figures, however, represent decreases over the corresponding totals for 1904 of seven-tenths of 1 per cent and one-tenth of 1 per cent, respectively. Of the three industries comprising this group, the manufacture of malt liquors was by far the most important, the total output being valued at \$25,332,000 in 1909, an increase over 1904 of \$3,711,000, or 17.2 per cent. This gain was not large enough to overcome the losses of the other two industries in this group in respect to value of products. The value of distilled liquors was \$12,011,000 in 1909 and \$15,977,000 in 1904, showing a decrease of \$3,966,000, or 24.8 per cent, for the five-year period. The value of vinous liquors, the least important of the liquor group, was \$1,304,000 in 1909, showing a decrease compared with 1904 of \$31,000, or 2.3 per cent. In 1909 Ohio ranked sixth among the states of the Union in the manufacture of malt liquors, fifth in distilled liquors, and third in vinous liquors.

Lumber and timber products.—This industry includes the timber plants whose chief products are logs, as well as the sawmills, shingle mills, and planing mills which produce rough and dressed lumber, lath, shingles, cooperage stock, sash, doors, blinds, interior finishing, and other millwork, and also wooden packing-box factories. The industry as a whole has been practically at a standstill in Ohio during the last decade, 1899-1909, the total output for 1909 being valued at \$34,597,000, compared with \$32,926,000 for 1904 and \$32,812,000 for 1899. The timber and sawmill branch of the industry shows quite a decline for this 10-year period, which, however, was offset by the increased production of the planing mills and

the packing-box factories. The 1,390 establishments reported in 1909 for the entire industry were distributed as follows: 411 independent planing mills, reporting 54.1 per cent of the value of products; 900 saw-mills and timber plants, reporting 37.2 per cent; and 79 packing-box factories, reporting 8.7 per cent. The corresponding percentages of the total value of products contributed by these three branches in 1899 were 33.7, 60.3, and 6, respectively.

Boots and shoes, including cut stock and findings.—Of the 72 establishments included in this classification in 1909, 63 were engaged primarily in the manufacture of boots and shoes, 5 in the production of boot and shoe findings, and 4 in the manufacture of boot and shoe cut stock. There is some overlapping between these three branches, which makes it desirable to combine them in presenting these statistics. In 1849 there were 805 establishments reported for this industry in Ohio, with an output valued at \$2,328,896, but it was not until recent years that the industry showed its most marked development. In 1899 the output of this class of establishments was valued at \$18,246,000, in 1904 it was \$25,735,000, and in 1909 it reached \$31,551,000, an increase for the decade of \$13,305,000, or 72.9 per cent, and for the more recent five-year period, 1904–1909, of \$5,816,000, or 22.6 per cent. Of the total value of products reported for the industry in the United States, these figures represented 6.3 per cent in 1899, 7.2 per cent in 1904, and 6.2 per cent in 1909, Ohio ranking fourth, third, and fifth, respectively, at the three censuses.

Clay products.—The total output of pottery, terra-cotta, and fire-clay products and brick and tile reported for 1909 was valued at \$30,531,000, an increase over 1904 of \$4,844,000, or 18.9 per cent, and over 1899 of \$14,050,000, or 85.2 per cent. The importance of Ohio in the manufacture of clay products is due very largely to the development of its extensive deposits of suitable clays. In 1909 Ohio ranked first among the states of the Union in this industry, contributing 18.1 per cent of the total value of products in the United States, the proportion for 1904 having been 19 per cent and for 1899, 17.3 per cent. The manufacture of pottery, terra-cotta, and fire-clay products, in which Ohio outranks all other states, is by far the most important branch of the clay manufactures in the state, the value of the output having been 69.3 per cent of the total for the combined industries in 1909, 72.2 per cent in 1904, and 71.9 per cent in 1899. There were 248 such establishments in the state in 1899, and the total output was valued at \$11,851,000, whereas in 1904 there were 205, with products valued at \$18,551,000, and in 1909, 186, with products valued at \$21,173,000. In the manufacture of brick and tile Ohio ranks second among the states, a position which it has held for a number of years.

Tobacco manufactures.—The statistics included in this industry include those for the establishments en-

gaged in the manufacture of chewing and smoking tobacco and snuff, as well as the cigar and cigarette factories. The industry in the state, if measured by number of plants, seems to be very largely confined to the latter class of establishments, for of the 1,146 reported for the entire industry in 1909, 1,124 were cigar and cigarette factories, but the value of their output represented only about half of the total. For the industry as a whole, the total value of the product in 1909 was \$28,907,000, an increase over 1904 of \$8,418,000, or 41.1 per cent, the absolute gain being more than double that for the preceding five-year period. Ohio ranked fifth in 1909, when measured by value of products, among the states of the Union in this class of manufacture.

Cars and general shop construction and repairs by steam-railroad companies.—The statistics for this industry represent the work done in car shops by steam-railroad companies, and exclude minor repairs in roundhouses. The operations consist almost exclusively of repairs to rolling stock and equipment. Although the number of establishments decreased from 91 in 1899 to 71 in 1909, chiefly through the elimination of a few roundhouses which were included in the prior census, the value of the work performed increased from \$12,975,000 to \$28,690,000 during that period. The growth of the industry, however, as measured by the value of products, during the five years 1904–1909, was slightly less than during the preceding five-year period. In 1909 employment was given to an average of 20,728 wage earners, this being the third largest number reported by any of the industries of the state specified in the table, and representing an increase over the number reported in 1899 of 9,194, or 79.7 per cent.

Carriages and wagons and materials.—This classification includes establishments which made five or more horse-drawn vehicles during the year, as well as those engaged in the manufacture of carriage or wagon bodies, tops, and other parts and accessories. In contrast to the great increase noted in the automobile industry from 1904 to 1909, there has been a decline in the manufacture of carriages and wagons during the same period. While the value of products of this industry increased from \$22,803,000 in 1899 to \$24,003,000 in 1904, it decreased to \$21,949,000 in 1909, a loss of 8.6 per cent in the last five years. As this decrease was general throughout the country, Ohio retained first place among the states of the Union in this class of manufactures.

In the table on pages 690 and 691 statistics are presented for five other industries which, though not among the leading ones of the state, are noteworthy in that Ohio ranks first among the states in each when measured by the value of products. These industries, together with the percentage contributed by Ohio in 1909 of the total value for each in the United States, are: Stoves and furnaces, including gas and oil stoves, 19.5 per cent; safes and vaults, 64.6 per cent; flags,

banners, regalia, society badges, and emblems, 37.3 per cent; pumps, not including steam pumps, 49.2 per cent; and grindstones, 88.7 per cent. Ohio holds second place among the states in the manufacture of glass; sewing machines and attachments; mattresses and spring beds; coffins, burial cases, and undertakers' goods; bicycles, motorcycles, and parts; street-railroad cars; printing ink; lime; and machine screws.

The rank of the industries when measured by value added by manufacture differs considerably from the rank by value of products, which is the order in which they are shown in the table on pages 690 and 691. Of all the industries listed in the table, only five hold the same position when ranked according to the value added by manufacture. Noticeable changes in rank are found in the case of tin plate and terneplate, which drops from thirty-third place in gross value to seventy-first place in added value; in linseed oil, which falls from fifty-first to seventy-seventh place; in slaughtering and meat packing, which drops from fourth to twenty-fifth place; and in the manufacture of flour-mill and gristmill products, which falls from fifth to twenty-fourth place. On the other hand, the manufacture of patent medicines and compounds advances from forty-second to twenty-ninth place; the manufacture of cutlery and tools, from forty-fourth to thirty-first; liquor distilling, from twenty-seventh to sixteenth; and the manufacture of safes and vaults, from forty-third to thirty-second.

The table on pages 690 and 691 also shows the percentages of increase or decrease for each industry in respect to value of products and value added by manufacture in all cases where comparative figures are presented in Table I. Several of the industries show exceptionally large percentages of increase during both of the five-year periods, while others show marked decreases. From 1904 to 1909 the largest increases in both items are shown for street-railroad repair shops; for the manufacture of automobiles; millinery and lace goods; blacking and cleansing and polishing preparations; and pumps, not including steam pumps. From 1899 to 1904 the largest gains in both items are shown for the manufacture of automobiles, including bodies and parts; show cases; pumps, not including steam pumps; street-railroad cars; musical instruments; and hosiery and knit goods.

The largest percentage of increase in value of products during the more recent five-year period was 883.1 in street-railroad repair shops, and for the preceding five-year period was 4,284.8 in the manufacture of automobiles, including bodies and parts. In value of products 15 of the 90 industries presented separately in the table show a decrease from 1904 to 1909, and 11 a decrease from 1899 to 1904, while in value added by manufacture decreases are shown for 17 industries from 1904 to 1909, and for 10 from 1899 to 1904. The largest relative decreases in value of products from 1904 to 1909 were in the manufacture of illumina-

ting and heating gas (36 per cent), and in the manufacture of distilled liquors (24.8 per cent).

Persons engaged in manufacturing industries.—The following table shows, for 1909, the distribution of the number of persons engaged in manufactures, the average number of wage earners being distributed by sex and age. It should be borne in mind, however, that the sex and age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the Introduction.

CLASS.	PERSONS ENGAGED IN MANUFACTURES.		
	Total.	Male.	Female.
All classes.....	523,004	439,811	83,193
Proprietors and officials.....	31,213	30,341	872
Proprietors and firm members.....	14,719	14,141	578
Salaried officers of corporations.....	6,371	6,258	113
Superintendents and managers.....	10,123	9,942	181
Clerks.....	44,857	34,101	10,756
Wage earners (average number).....	446,934	375,369	71,565
16 years of age and over.....	441,690	372,694	68,996
Under 16 years of age.....	5,244	2,675	2,569

The average number of persons engaged in manufactures during 1909 was 523,004, of whom 446,934 were wage earners. Of the remainder, 31,213 were proprietors and officials and 44,857 were clerks. Corresponding figures for individual industries will be found in Table II, page 740.

The next table shows, for 1909, the percentage of proprietors and officials, clerks, and wage earners, respectively, among the total number of persons employed in manufactures. It covers all industries combined and 40 important industries individually.

Of the total number of persons engaged in all manufacturing industries, 6 per cent were proprietors and officials, 8.6 per cent clerks, and 85.5 per cent wage earners. The highest percentage of proprietors and officials shown for any industry, 51.9, was for establishments engaged in the manufacture of butter, cheese, and condensed milk. In this, as well as in the flour-mill and gristmill industry and in the manufacture of bread and other bakery products, the majority of the establishments are small, and the work is to a large extent done by the proprietors or their immediate representatives, so that the proportion of persons engaged in these industries falling into the class of proprietors and officials is very much higher than for the other industries shown separately or for all industries combined. Somewhat analogous conditions prevail in the lumber industry and in printing and publishing, in which proprietors and officials formed 13.6 per cent and 12.1 per cent, respectively, of the total number of persons engaged in each industry.

Tin-plate and terneplate mills, steam-railroad repair shops, glass factories, and steel works and rolling mills which are for the most part large establishments, show very small proportions of proprietors and officials.

INDUSTRY.	PERSONS ENGAGED IN MANUFACTURES.			
	Total number.	Per cent of total.		
		Proprietors and officials.	Clerks.	Wage earners (average number)
All industries.....	523,604	6.0	8.6	85.5
Agricultural implements.....	6,972	3.2	10.8	86.0
Automobiles, including bodies and parts.....	13,458	2.3	7.6	90.1
Boots and shoes, including cut stock and findings.....	17,607	2.5	6.5	91.0
Brass and bronze products.....	2,650	6.9	8.8	84.2
Bread and other bakery products.....	8,758	20.1	11.7	68.2
Brick and tile.....	8,575	10.9	2.1	87.1
Butter, cheese, and condensed milk.....	2,494	51.9	5.3	42.8
Carriages and wagons and materials.....	10,350	8.2	6.6	85.2
Cars and general shop construction and repairs by steam-railroad companies.....	22,102	1.5	4.7	93.8
Cars, steam-railroad, not including operations of railroad companies.....	2,477	3.4	4.5	92.1
Chemicals.....	1,346	5.7	10.2	84.1
Clothing, men's, including shirts.....	11,813	5.1	10.6	84.2
Clothing, women's.....	10,191	3.6	9.6	86.8
Coffee and spice, roasting and grinding.....	1,586	6.5	45.5	48.0
Confectionery.....	3,012	6.7	10.6	82.8
Copper, tin, and sheet-iron products.....	7,085	5.9	8.2	85.9
Electrical machinery, apparatus, and supplies.....	9,605	3.8	12.1	84.0
Flour-mill and gristmill products.....	4,164	28.0	9.9	62.1
Foundry and machine-shop products.....	74,887	4.5	8.9	86.6
Furniture and refrigerators.....	9,449	5.7	7.2	87.1
Glass.....	10,630	1.8	2.6	95.6
Hosiery and knit goods.....	3,412	3.4	4.3	92.3
Iron and steel, blast furnaces.....	8,278	2.5	9.4	88.1
Iron and steel, steel works and rolling mills.....	41,912	1.9	6.0	92.1
Leather, tanned, curried, and finished.....	2,028	4.3	2.8	92.9
Liquors, distilled.....	434	6.7	7.1	86.2
Liquors, malt.....	5,275	7.0	10.4	82.6
Lumber and timber products.....	16,445	13.6	4.6	81.8
Paint and varnish.....	2,587	9.8	30.9	59.3
Paper and wood pulp.....	4,972	2.6	3.4	94.0
Paper goods, not elsewhere specified.....	2,264	4.2	5.7	90.1
Petroleum, refining.....	2,039	2.1	16.6	81.4
Pottery, terra-cotta, and fire-clay products.....	17,751	3.0	3.9	93.1
Printing and publishing.....	22,754	12.1	18.6	69.2
Slaughtering and meat packing.....	3,864	8.1	12.1	79.9
Soap.....	2,280	4.9	17.3	77.8
Stoves and furnaces, including gas and oil stoves.....	8,352	3.6	9.4	87.1
Tin plate and terneplate.....	742	1.3	7.5	91.1
Tobacco manufactures.....	14,681	10.3	3.7	86.0
Woolen, worsted, and felt goods, and wool hats.....	2,711	2.4	3.0	94.7
All other industries.....	120,412	6.1	9.8	84.1

Among the industries shown separately in the table, the largest proportion of wage earners, 95.6 per cent, was reported for the glass factories, while the smallest, 42.8 per cent, was for the manufacture of butter, cheese, and condensed milk. Among the industries specified, the roasting and grinding of coffee and spice shows the largest proportion of clerks, 45.5 per cent.

The next table shows, for 1909, in percentages, for all industries combined, the distribution of the average number of wage earners, by age periods, and for those 16 years of age and over by sex, calculated in the manner described in the Introduction. It also shows, for some of the important industries separately, a similar distribution of wage earners as reported for December 15, or the nearest representative day. As a means of judging the importance of the several industries the average number employed for the year is also given in each case.

For all industries combined, 83.4 per cent of the average number of wage earners were males 16 years of age and over; 15.4 per cent, females 16 years of age and over; and 1.2 per cent, children under the age of 16. The larger part of the total number of female wage earners 16 years of age and over was made up of those employed in the boot and shoe, clothing, hosiery and knit-goods, and pottery industries, printing and publishing, and

tobacco manufactures. In the manufacture of hosiery and knit goods over three-fourths of the wage earners were women 16 years of age and over; in the manufacture of men's clothing and women's clothing and in tobacco manufactures, about two-thirds; in the boot and shoe industry, over two-fifths; in printing and publishing, nearly one-fourth; and in the pottery industry, nearly one-fifth. In the manufacture of confectionery and in the woolen and worsted goods industry the proportion of female wage earners was also large, being 59.5 per cent and 59.3 per cent, respectively.

The boot and shoe, men's clothing, confectionery, glass, hosiery and knit-goods, pottery, woolen and worsted goods industries, printing and publishing, and the manufacture of copper, tin, and sheet-iron products include the larger part of the total number of wage earners under 16 years of age. Of this class of employees the largest absolute number, 552, was in the boot and shoe industry, and the largest proportion, 10.1 per cent, in the manufacture of confectionery.

INDUSTRY.	WAGE EARNERS.			
	Average number. ¹	Per cent of total.		
		16 years of age and over.		Under 16 years of age.
Male.	Female.			
All industries.....	446,934	83.4	15.4	1.2
Agricultural implements.....	5,997	99.1	0.7	0.2
Automobiles, including bodies and parts.....	12,130	98.6	1.1	0.2
Boots and shoes, including cut stock and findings.....	16,026	55.5	41.0	3.4
Brass and bronze products.....	2,232	97.5	2.2	0.3
Bread and other bakery products.....	5,972	80.7	18.5	0.9
Brick and tile.....	7,466	99.3	(²)	0.7
Butter, cheese, and condensed milk.....	1,067	89.7	9.0	1.3
Carriages and wagons and materials.....	8,815	96.8	2.7	0.6
Cars and general shop construction and repairs by steam-railroad companies.....	20,728	99.8	0.2	(²)
Cars, steam-railroad, not including operations of railroad companies.....	2,282	99.6	0.4	.....
Chemicals.....	1,132	96.4	3.6	.....
Clothing, men's, including shirts.....	9,950	30.0	66.5	3.5
Clothing, women's.....	8,843	35.0	63.6	1.3
Coffee and spice, roasting and grinding.....	762	49.7	50.1	0.1
Confectionery.....	2,493	30.4	59.5	10.1
Copper, tin, and sheet-iron products.....	6,598	78.7	16.3	5.0
Electrical machinery, apparatus, and supplies.....	8,073	67.6	31.5	0.9
Flour-mill and gristmill products.....	2,585	96.0	4.0	.....
Foundry and machine-shop products.....	64,817	98.3	1.3	0.4
Furniture and refrigerators.....	8,232	96.7	2.4	0.9
Glass.....	10,159	87.6	8.2	4.3
Hosiery and knit goods.....	3,149	16.5	76.5	7.0
Iron and steel, blast furnaces.....	7,295	100.0	(²)	.....
Iron and steel, steel works and rolling mills.....	38,586	99.2	0.8	(²)
Leather, tanned, curried, and finished.....	1,884	99.5	0.5	.....
Liquors, distilled.....	374	97.3	2.7	.....
Liquors, malt.....	4,356	99.8	0.2	(²)
Lumber and timber products.....	13,456	98.8	1.1	0.2
Paint and varnish.....	1,535	88.5	11.5	0.1
Paper and wood pulp.....	4,673	84.5	15.4	0.1
Paper goods, not elsewhere specified.....	2,040	47.8	51.5	0.7
Petroleum, refining.....	1,659	98.7	1.0	0.3
Pottery, terra-cotta, and fire-clay products.....	16,519	79.9	19.0	1.0
Printing and publishing.....	15,756	73.7	24.9	1.4
Slaughtering and meat packing.....	3,086	97.8	2.2	.....
Soap.....	1,774	74.0	24.2	1.8
Stoves and furnaces, including gas and oil stoves.....	7,274	99.5	0.3	0.2
Tin plate and terneplate.....	676	85.6	14.3	.....
Tobacco manufactures.....	12,631	32.3	66.8	0.9
Woolen, worsted, and felt goods, and wool hats.....	2,566	31.9	59.3	8.8
All other industries.....	101,286	80.2	18.3	1.5

¹ For method of estimating the distribution, by sex and age periods, of the average number in all industries combined, see Introduction.

² Less than one-tenth of 1 per cent.

In order to compare the distribution of persons engaged in manufactures in 1909 with that shown at the census of 1904 it is necessary to use the classifica-

tion employed at the earlier census. (See Introduction.) The following table makes this comparison according to occupational status:

CLASS.	PERSONS ENGAGED IN MANUFACTURES.				
	1909		1904		Per cent of increase, 1904-1909.
	Number.	Per cent distribution.	Number.	Per cent distribution.	
Total.....	523,004	100.0	417,946	100.0	25.1
Proprietors and firm members.....	14,719	2.8	13,657	3.3	7.8
Salaried employees.....	61,351	11.7	39,991	9.6	53.4
Wage earners (average number).....	446,934	85.5	364,298	87.2	22.7

Comparable figures are not obtainable for 1899. The table shows a greater percentage of increase in the salaried employees than in the two other classes.

The following table shows the average number of wage earners, according to age periods, and in the case of those 16 years of age and over according to sex, for 1909, 1904, and 1899. The averages for 1909 are estimated on the basis of the actual number reported for a single representative day. (See Introduction.)

CLASS.	AVERAGE NUMBER OF WAGE EARNERS.					
	1909		1904		1899	
	Number.	Per cent distribution.	Number.	Per cent distribution.	Number.	Per cent distribution.
Total.....	446,934	100.0	364,298	100.0	308,109	100.0
16 years of age and over.....	441,690	98.8	359,203	98.6	304,050	98.7
Male.....	372,694	83.4	303,828	83.4	258,778	84.0
Female.....	68,996	15.4	55,375	15.2	45,272	14.7
Under 16 years of age.....	5,244	1.2	5,095	1.4	4,059	1.3

This table indicates that for all industries combined there has been an increase during the 10 years in the number of children under 16 years of age employed, although in 1909 the proportion which such employees formed of all wage earners engaged in manufactures was less than in 1904. There has been little change during the decade in the proportion of male and female wage earners. In 1909 and 1904 males 16 years of age and over formed 83.4 per cent of all wage earners, as compared with 84 per cent in 1899.

Wage earners employed, by months.—The next table gives the number of wage earners employed on the 15th of each month during the year 1909, for all industries combined; it gives also the percentage which the number reported for each month is of the greatest number reported for any month. In Table II, page 740, is shown, for practically all of the important industries in the state, the largest number and also the smallest number of wage earners reported for any month. The figures are for the 15th day, or the nearest representative day, of the month.

There were no seasonal industries of importance which gave employment to large numbers of persons at certain seasons of the year only. Most of the industries showed comparatively little fluctuation throughout the year in the number of wage earners employed.

The greatest relative variation was in the foundry and machine-shop industry, in which the minimum number, 57,555, was employed in January, and the maximum number, 74,069, in December. The steel works and rolling mills had the next largest relative variation, with a minimum of 33,845 wage earners in February and 45,151 in December. For all industries combined, the smallest number, 414,278, was employed in the month of January. The number increased steadily month by month until July, when a slight decrease occurred. Thereafter the number increased constantly until in December 480,405 wage earners were employed, the largest number reported for any month. The difference between the figures for the months of greatest and of least activity was thus 66,127, or 13.8 per cent of the maximum.

MONTH.	WAGE EARNERS.		MONTH.	WAGE EARNERS.	
	Number.	Per cent of maximum.		Number.	Per cent of maximum.
January.....	414,278	86.2	July.....	435,241	90.6
February.....	421,945	87.8	August.....	448,898	93.4
March.....	432,343	90.0	September.....	465,351	96.9
April.....	432,828	90.1	October.....	474,448	98.8
May.....	436,450	90.8	November.....	476,023	99.1
June.....	444,998	92.6	December.....	480,405	100.0

Prevailing hours of labor.—In the next table wage earners have been classified according to the hours of labor prevailing in the establishments in which they are employed. In making this classification the average number of wage earners employed during the year is used, and the number employed in each establishment is classified as a total, according to the hours prevailing in that establishment, even though a few employees work a greater or less number of hours.

It is evident from the figures that for the great majority of wage earners employed in the manufacturing industries of Ohio the prevailing hours of labor range from 54 to 60 a week, only 13.7 per cent of the total being employed in establishments where the prevailing hours were less than 54 a week, and only 7.6 per cent in establishments where they were more than 60 a week.

It will be noted that for the wage earners in 33 of the 89 industries shown separately in the table the most common period of employment was a week of between 54 and 60 hours, while in 32 industries the most common period was a week of 60 hours. The largest proportion of wage earners shown in the first of these groups was for the manufacture of flags and banners and in the second for liquor distilling, the proportions being 88.8 per cent and 90.1 per cent, respectively. The majority of wage earners engaged in the manufacture of cement, and illuminating and heating gas, and in blast furnaces were employed in establishments where the prevailing hours of labor were over 72 per week, while in the manufacture of malt liquors and in photo-engraving, the prevailing hours for the greater part of the wage earners were 48 or less per week.

STATISTICS OF MANUFACTURES.

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INDUSTRY.	AVERAGE NUMBER OF WAGE EARNERS IN ESTABLISHMENTS GROUPED ACCORDING TO PREVAILING HOURS OF WORK PER WEEK.								
	Total.	48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72.	Over 72.
All industries.....	446,934	31,977	29,296	88,915	130,852	131,853	14,484	8,714	10,843
Agricultural implements.....	5,997	105	1,294	387	2,354	1,707			
Artificial stone.....	802	34	13	170	71	514			
Automobiles, including bodies and parts.....	12,130	2	64	4,469	6,055	1,051		489	
Bags, paper.....	557			134	367	56			
Belting and hose, leather.....	107			1	54	52			
Bicycles, motorcycles, and parts.....	942			209	54	679			
Blacking and cleansing and polishing preparations.....	103	42	1	33	4	22		1	
Boots and shoes, including cut stock and findings.....	16,026	190	305	2,608	9,106	3,817			
Boxes, cigar.....	531	89	84	97	139	122			
Boxes, fancy and paper.....	2,530	112	430	339	1,208	441			
Brass and bronze products.....	2,232	30	36	831	1,114	94	127		
Bread and other bakery products.....	5,972	589	149	1,007	512	3,244	299	132	40
Brick and tile.....	7,466	355	65	852	529	5,576	22		67
Butter, cheese, and condensed milk.....	1,067	64	9	27	58	401	470	11	27
Canning and preserving.....	2,009	208	18	79	149	1,555			
Carriages and wagons and materials.....	8,815	641	651	1,634	1,993	3,896			
Cars and general shop construction and repairs by steam-railroad companies.....	20,728	1,718	2,660	3,057	6,273	4,094	1,509		1,417
Cars and general shop construction and repairs by street-railroad companies.....	1,318	2		50	331	381	550		4
Cars, steam-railroad, not including operations of railroad companies.....	2,282		121	279	1,830	52			
Cars, street-railroad, not including operations of railroad companies.....	734				488	246			
Cement.....	887	19				122			746
Chemicals.....	1,132	2		3	164	586	13	34	330
Clocks and watches, including cases and materials.....	1,456			25	173	1,258			
Clothing, men's, including shirts.....	9,950	1,300	2,023	5,428	1,090	109			
Clothing, women's.....	8,843	456	1,146	5,242	1,952	47			
Coffee and spice, roasting and grinding.....	702	46	87	133	252	244			
Coffins, burial cases, and undertakers' goods.....	1,245		255	226	640	124			
Coke.....	246	31				3	212		
Confectionery.....	2,493	322	342	280	280	1,266		3	
Cooperage and wooden goods, not elsewhere specified.....	1,663	181	476	256	269	479	2		
Copper, tin, and sheet-iron products.....	6,598	549	167	1,384	1,250	3,000			248
Cordage and twine and jute and linen goods.....	791				837	154			
Cutlery and tools, not elsewhere specified.....	2,820	40	11	118	2,007	644			
Dairymen's, poulterers', and apiarists' supplies.....	479			20	111	129	219		
Electrical machinery, apparatus, and supplies.....	8,073	20	1,086	2,430	3,071	1,452		14	
Explosives.....	353	19		106		233			
Fertilizers.....	841			60	26	755			
Firearms and ammunition.....	813		48	48	700	17			
Flags, banners, regalia, society badges, and emblems.....	1,262	4	5	77	1,121	55			
Flour-mill and gristmill products.....	2,585	207	53	56	66	1,571	378	253	1
Foundry and machine-shop products.....	64,817	800	2,508	11,087	28,233	21,845	314	21	
Furniture and refrigerators.....	8,232	196	345	1,266	2,660	3,765			
Gas and electric fixtures and lamps and reflectors.....	1,437	39	201	452	462	136	147		453
Gas, illuminating and heating.....	666	128	2		37	2	36	8	
Glass.....	10,159	1,797	2,279	1,726	2,501	1,139	652	65	
Grindstones.....	1,277			71	94	1,112			
Hats and caps, other than felt, straw, and wool.....	406	3	112	268	2	21			
Hosiery and knit goods.....	3,149	10	45	921	1,019	1,154			
Ice, manufactured.....	892	3			47	109	140	152	436
Ink, printing.....	183		121	25		37			
Iron and steel, blast furnaces.....	7,295						606	1	6,688
Iron and steel, steel works and rolling mills.....	38,586	1,483	44	5,442	7,260	13,352	6,296	4,709	
Jewelry.....	356	28	54	231	40	3			
Leather goods.....	1,890	24	24	465	861	515		1	
Leather, tanned, curried, and finished.....	1,884	95	1	815	367	606			
Lime.....	1,273	1	10	115	27	865	48	26	181
Liquors, distilled.....	374	12		25	337				
Liquors, malt.....	4,356	2,309	1	1,479	89	471	7		
Liquors, vinous.....	149		2	10		133			
Lumber and timber products.....	13,456	704	358	2,802	2,238	7,348	2	4	
Marble and stone work.....	2,012	341	61	478	19	1,001	44	68	
Mattresses and spring beds.....	961	59	205	68	451	178			
Millinery and lace goods.....	1,357	432	469	346	102	8			
Models and patterns, not including paper patterns.....	441	1	151	106	152	31			
Musical instruments, pianos and organs and materials.....	1,841		3	219	782	837			
Oil, linseed.....	213						88	125	
Paint and varnish.....	1,535	53	267	193	520	497			
Paper and wood pulp.....	4,673				468	1,498	1,233	1,450	18
Paper goods, not elsewhere specified.....	2,040	40	19	853	200	928			
Patent medicines and compounds and druggists' preparations.....	905	163	167	177	311	86		1	
Petroleum, refining.....	1,659			480	30	1,122	19	8	
Photo-engraving.....	277	262	15						
Pottery, terra-cotta, and fire-clay products.....	16,519	2,143	2,660	3,833	1,053	6,703		117	
Printing and publishing.....	15,756	6,888	1,951	4,070	1,485	744		18	
Pumps, not including steam pumps.....	897	3	70	39	725	60			
Safes and vaults.....	2,014		89	217	1,617	91			
Salt.....	648	21		57	110	127	93	240	
Screws, machine.....	324			45	33	246			
Sewing machines, cases, and attachments.....	3,831			623	1,057	1,551			
Shoddy.....	438				170	268			
Show cases.....	349			42	111	191		5	
Slaughtering and meat packing.....	3,086	26	6	484	90	2,333	67	80	
Soap.....	1,774	9		30	1,209	526			
Stoves and furnaces, including gas and oil stoves.....	7,274	336	350	1,539	3,116	1,933			
Tin plate and terneplate.....	676			461	137	78			
Tobacco manufactures.....	12,631	4,327	2,431	938	2,806	2,113	10	3	3
Umbrellas and canes.....	287		48	37	193	9			
Wall plaster.....	259		5	17	13	224			
Woolen, worsted, and felt goods, and wool hats.....	2,566	2	6		1,990	568			
All other industries.....	53,209	1,754	2,617	13,598	19,032	14,742	473	809	184

Location of establishments.—The following table shows the extent to which the manufactures of Ohio are centralized in cities of 10,000 population or over. (See Introduction.) Statistics for Lakewood, a city having

over 10,000 inhabitants in 1909, are not included in the city group, but are shown in those for districts outside of cities so as to avoid disclosing the operations of individual establishments.

ITEM.	Year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 AND OVER.								DISTRICTS OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 AND OVER.	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.		Number or amount.	Percent of total.
			Number or amount.	Percent of total.	Number or amount.	Percent of total.	Number or amount.	Percent of total.	Number or amount.	Percent of total.		
Population.....	1910	4,767,121	2,130,013	44.7	345,803	7.3	393,371	8.3	1,390,839	29.2	2,637,108	55.3
	1900	4,157,545	1,512,007	36.4	305,089	7.3	241,866	5.8	965,052	23.2	2,645,538	63.6
Number of establishments.....	1909	15,138	8,765	57.9	1,366	9.0	1,208	8.0	6,191	40.9	6,373	42.1
	1899	13,868	6,990	50.4	1,299	9.4	1,034	7.5	4,657	33.6	6,378	49.6
Average number of wage earners.....	1909	446,934	323,359	72.4	53,624	12.0	67,960	15.2	201,775	45.1	123,575	27.6
	1899	308,109	220,141	71.4	40,530	13.2	42,794	13.9	136,817	44.4	87,968	28.6
Value of products.....	1909	\$1,437,935,817	\$1,077,616,658	74.9	\$156,321,801	10.9	\$284,178,542	19.8	\$637,116,315	44.3	\$360,319,159	25.1
	1899	748,670,855	540,823,420	72.2	84,434,579	11.3	108,630,809	14.5	347,758,032	46.4	207,347,435	27.8
Value added by manufacture.....	1909	613,733,870	471,430,081	76.8	68,825,229	11.2	108,036,558	17.6	294,568,294	48.0	142,303,739	23.2
	1899	339,368,354	251,523,607	74.1	40,462,166	11.9	48,808,752	14.1	162,252,689	47.8	87,844,747	25.9

In 1909, 74.9 per cent of the total value of products for all manufacturing industries in the state were reported from cities having over 10,000 inhabitants, and 72.4 per cent of the average number of wage earners were employed in such cities. During the 10 years from 1899 to 1909 the industries located in cities have gained somewhat on those in the remainder of the state. It should be understood that the places which had less than 10,000 inhabitants each in 1900 but more than that number in 1910, namely, Norwood, Alliance, Elyria, Middletown, Lancaster, Bellaire, Cambridge, and Warren, are included in the 1899 statistics for the districts outside of cities. The total value of products reported for these eight cities in 1909 was \$64,845,752, or 4.5 per cent of the total value for the state. If, therefore, the statistics for these cities in 1909 were eliminated from the totals of the cities having a population of 10,000 or over and added to those having less than 10,000 inhabitants, the proportion of the aggregate value of products credited to the former group would be 70.4 per cent and that credited to the latter 29.6 per cent, which figures represent the relative proportions of the total value of manufactured products for the state contributed by the same areas that are compared in the total for the prior census.

The composition of each of the groups of cities having more than 10,000 inhabitants has been affected by changes in the population of the different cities during the decade. In 1900 Hamilton, Lima, Lorain, Newark, and Zanesville had less than 25,000 inhabitants, but during the following decade the population of each increased, so that all now belong to the group comprising cities having between 25,000 and 100,000 inhabitants. Dayton had less than 100,000 in 1900, but it so gained in population that in 1910 it was included with Cleveland, Cincinnati, Columbus, and Toledo in the group of cities having more than 100,000 inhabitants.

Although each of the three groups into which the cities having over 10,000 inhabitants are divided shows a substantial absolute increase during the 10-year period in average number of wage earners, value of products, and value added by manufacture, the group comprising the cities having between 10,000 and 25,000 inhabitants had for each of these items a smaller proportion of the total in 1909 than 1899; the group having 100,000 and over had a smaller proportion of the value of products but a larger proportion of the wage earners and value added by manufacture; while the group comprising cities having between 25,000 and 100,000 inhabitants had larger proportions in each item. These changes are, of course, due in the main to the shifting of the cities among the different groups. Of the total value of products shown in the state at the census of 1909, 10.9 per cent was reported from the 22 cities (Lakewood excluded) having between 10,000 and 25,000 inhabitants, and 19.8 per cent from the 9 cities having between 25,000 and 100,000, and 44.3 per cent from the 5 cities having more than 100,000 inhabitants.

The population in 1910 and 1900 of the 37 cities which had 10,000 or more inhabitants in 1910 is given in the following table:

CITY.	1910	1900	CITY.	1910	1900
Cleveland.....	560,668	381,768	Ashtabula.....	18,266	12,949
Cincinnati.....	363,591	325,902	Marion.....	18,232	11,862
Columbus.....	181,511	125,560	Norwood.....	16,185	6,480
Toledo.....	168,497	131,822	Lakewood.....	15,181	3,365
Dayton.....	116,577	85,333	Alliance.....	15,083	8,974
Youngstown.....	79,066	44,885	Findlay.....	14,858	17,613
Akron.....	69,067	42,728	Elyria.....	14,825	8,791
Canton.....	50,217	30,667	Chillicothe.....	14,508	12,976
Springfield.....	46,921	38,253	Massillon.....	13,879	11,944
Hamilton.....	35,279	23,914	Piqua.....	13,388	12,172
Lima.....	30,508	21,723	Middletown.....	13,152	9,215
Lorain.....	28,883	16,028	Ironton.....	13,147	11,868
Zanesville.....	28,026	23,538	Lancaster.....	13,003	8,991
Newark.....	25,404	18,157	Bellaire.....	12,946	9,912
Portsmouth.....	23,481	17,870	Marietta.....	12,923	13,348
Steubenville.....	22,391	14,349	Tiffin.....	11,894	10,969
Mansfield.....	20,768	17,640	Cambridge.....	11,327	8,241
East Liverpool.....	20,387	16,485	Warren.....	11,081	8,529
Sandusky.....	19,989	19,664			

The relative importance in the manufactures of each of the foregoing cities (except Lakewood) is shown in the following table, in which the value of products and average number of wage earners are shown separately for 1909, 1904, and 1899, as far as comparative figures are available:

CITY. ¹	AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.		
	1909	1904	1899	1909	1904	1899
Cleveland ²	84,728	64,041	55,341	\$271,960,833	\$171,923,636	\$139,355,508
Cincinnati.....	60,192	58,584	54,942	194,515,692	166,059,050	141,677,997
Youngstown ²	10,498	8,095	8,879	81,270,747	46,853,307	33,908,459
Akron ²	15,831	9,626	8,259	73,158,206	33,559,243	22,015,643
Toledo ²	18,873	15,697	12,747	61,229,542	44,501,292	31,976,094
Dayton.....	21,549	17,093	14,408	60,378,376	39,596,773	31,015,293
Columbus ²	16,428	14,350	13,787	49,031,872	39,530,132	34,748,433
Lorain.....	6,697	3,102	2,233	38,986,996	14,491,091	9,481,388
Canton.....	9,267	5,938	5,149	28,582,811	10,591,143	9,575,473
Steubenville.....	4,267	4,184	1,773	21,187,127	12,369,677	4,547,049
Springfield ²	7,405	6,258	6,299	19,246,141	13,381,767	12,115,941
Hamilton ²	6,895	6,107	5,147	18,183,693	13,810,901	10,655,486
Middletown.....	2,576	1,814	1,578	16,516,785	8,537,993	5,800,095
Bellaire.....	2,597	2,183	1,328	10,091,554	10,712,438	8,837,646
Norwood.....	3,907	(³)	(³)	9,684,332	(³)	(³)
Zanesville ²	3,150	3,098	3,405	9,144,953	6,347,387	5,708,137
Mansfield.....	3,204	3,021	2,622	8,172,911	7,363,578	6,076,124
Elyria.....	2,673	1,144	638	8,064,914	2,933,450	1,221,250
Newark.....	3,913	3,627	2,075	7,851,118	5,612,587	2,879,368
Lima ²	3,607	2,733	1,980	7,753,877	4,827,566	6,222,432
Portsmouth ²	3,728	4,073	4,153	7,276,893	6,645,112	6,658,441
Ironton.....	1,920	1,804	1,577	7,118,259	4,755,304	5,410,528
Piqua.....	2,653	2,040	1,955	6,930,672	4,035,706	5,552,184
East Liverpool.....	4,873	5,222	4,171	6,629,076	6,437,090	4,749,165
Alliance ²	2,524	1,442	1,486	6,135,429	3,546,689	3,202,730
Warren.....	1,788	1,505	1,832	5,988,174	4,414,379	4,584,603
Sandusky.....	2,118	2,323	1,453	5,946,853	4,878,563	2,833,506
Marion.....	2,619	1,721	1,171	5,666,976	3,227,712	2,425,883
Massillon.....	1,934	1,995	1,474	4,787,772	3,707,013	2,748,999
Chillicothe.....	1,674	1,553	1,112	4,345,224	3,146,890	1,615,959
Cambridge.....	1,230	814	768	4,280,560	2,440,917	2,201,573
Lancaster ²	1,832	1,695	1,069	4,074,004	3,848,289	1,905,350
Findlay.....	1,376	1,343	1,107	3,486,793	2,925,309	1,685,418
Ashtabula.....	1,471	846	373	3,458,612	1,895,454	884,413
Tiffin.....	1,632	1,645	1,238	3,254,328	2,434,502	1,901,962
Marietta.....	1,288	1,314	1,511	3,214,553	2,599,287	2,398,137

¹ Exclusive of Lakewood, to avoid disclosure of the operations of individual establishments.

² Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.

³ Figures not available.

Every city for which comparative statistics are given, except Bellaire, shows an increase in the value of products from 1904 to 1909, and all but Lima, Portsmouth, Ironton, Piqua, and Warren an increase from 1899 to 1904. The percentages of increase, however, were generally greater from 1904 to 1909 than from 1899 to 1904. The greatest percentage of gain from 1904 to 1909, 174.9 per cent, was made by Elyria, due largely to gains in the chemical, foundry and machine-shop, and steel works and rolling-mill industries, and to the establishment there, since 1904, of a new factory manufacturing automobile bodies and parts. In Canton there was an increase of 169.9 per cent for the five-year period, due in part to the establishment of such new industries as steel works and rolling mills, and the manufacture of tin plate and terneplate and stamped and enameled ware. Lorain showed the next largest increase, 169 per cent, mainly on account of the increased production of steel and pig iron. Akron is still another of the cities in which the value of products more than doubled during the five-year period, the gain, 118 per cent, being due largely to the increased output of rubber goods.

Cleveland, the largest and most important city in the state, with abundant facilities for commerce by

lake and land, shows an increase from 1904 to 1909 of \$100,037,197, or 58.2 per cent, in the value of manufactured products, and of 20,687, or 32.3 per cent, in the average number of wage earners. The growing importance of Cleveland as a manufacturing city is indicated by the fact that when ranked by value of products it was fifth among the cities of the United States in 1909, seventh in 1904, and eighth in 1899. Nineteen per cent of the wage earners and 18.9 per cent of the value of products shown for the state in 1909 were reported from Cleveland. The corresponding proportions for 1904 were 17.6 per cent and 17.9 per cent, respectively. As measured by value of products, the steel works and rolling mills, with products valued at \$38,463,000, was the most important industry of the city in 1909, while foundries and machine shops, with products valued at \$37,443,000, followed very closely. The value of products stated represents 19.4 per cent and 25.7 per cent of the respective totals for these industries in the state.

The third industry in the city was the manufacture of automobiles, including bodies and parts, the output of which was valued at \$21,404,000, which represents an increase over 1904 of over 360 per cent, and forms 55.1 per cent of the value reported for the state for this industry. The increase in the value of output for the three leading industries combined represents over one-third of the total increase for all manufacturing industries in the city. Other industries of importance for which statistics are shown separately for Cleveland in Table I, page 732, are slaughtering and meat packing, with products valued at \$17,192,000; the making of women's clothing, with \$12,789,000; printing and publishing, with \$9,635,000; the manufacture of paint and varnish, with \$6,138,000; that of men's clothing, with \$5,953,000; and that of malt liquors, with \$5,124,000. Of the remaining industries shown in that table, there are seven in which Cleveland contributed over one-third of the total value of products reported for the state in 1909, namely, the manufacture of blacking and cleansing and polishing preparations, brass and bronze products, confectionery, cutlery and tools, hosiery and knit goods, millinery and lace goods, and models and patterns.

In addition to the 48 industries presented separately for Cleveland in Table I, there are 105 others, which, for various reasons, are included in the group of "All other industries." Some of these were among the most important in the city; in fact, 17 reported products in 1909 exceeding \$1,000,000 in value, which were distributed as follows: Thirteen, with \$1,000,000 but less than \$5,000,000; 3, with \$5,000,000 but less than \$10,000,000; and 1, with \$10,000,000 and over.¹

¹ These industries are:

- Bags, other than paper.
- Bicycles, motorcycles, and parts.
- Coffee and spice, roasting and grinding.
- Flour-mill and gristmill products.
- Gas, illuminating and heating.
- Iron and steel, blast furnaces.
- Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills.
- Oil, linseed.
- Petroleum, refining.

- Rubber goods, not elsewhere specified.
- Sewing machines, cases, and attachments.
- Shipbuilding, including boat building.
- Shoddy.
- Tin plate and terneplate.
- Wire.
- Wirework, including wire rope and cable.
- Woolen, worsted, and felt goods, and wool bats.

Cincinnati, the second city of the state in population, is the center of an important industrial district, which extends into Kentucky and Indiana. Its manufactures showed an increase from 1904 to 1909 of \$28,456,642, or 17.1 per cent, in value of products and of 1,608, or 2.7 per cent, in the average number of wage earners. Notwithstanding this gain in value of products, Cincinnati dropped from eighth place in 1904 to twelfth in 1909 among the manufacturing cities of the United States. In 1909 its leading industry was slaughtering and meat packing, with products valued at \$19,320,000, which constituted 9.9 per cent of the total for all industries in the city and 38 per cent of the total for this industry in the state. Foundries and machine shops were next in importance, with an output valued at \$18,380,000, followed by the manufacture of men's clothing, valued at \$16,975,000, representing 12.6 per cent and 68.3 per cent of the totals for the respective industries in the state. The output of boots and shoes in Cincinnati, valued at \$14,999,000, constituted nearly one-half of the total for the industry in the state; that of printing and publishing, \$11,519,000, over one-fourth; that of malt liquors, \$8,874,000, over one-third; and that of distilled liquors, \$8,745,000, nearly three-fourths. Carriages and wagons manufactured in this city, valued at \$6,825,000, represented nearly one-third of the total reported for such products in the state; bread and other bakery products, valued at \$5,103,000, nearly one-fourth; leather (tanned, curried, and finished), valued at \$5,059,000, about one-half; and lumber and timber products, valued at \$5,021,000, over one-seventh.

In addition to the 50 industries presented separately for Cincinnati in Table I, there are 104 others which, for various reasons, are included in the group of "All other industries." Some of these were among the most important in the city, 6 reporting products valued at more than \$1,000,000 but less than \$2,000,000 in 1909.¹

Youngstown, the third manufacturing city of the state as measured by the value of products, showed an increase of \$34,417,440, or 73.5 per cent, from 1904 to 1909, due primarily to the increased production of steel, in the manufacture of which the city outranks all others in the state. The output of steel works and rolling mills located in Youngstown in 1909 was valued at \$50,175,000, an increase over 1904 of \$20,437,000, or 68.7 per cent, and represented 61.7 per cent of the total reported for all manufacturing industries of the city. Blast furnaces, foundries and machine shops, and the planing-mill branch of the lumber industry are also important industries in Youngstown. The value of the output of the blast furnaces far exceeds the value of the other two classes of establishments, but the statistics for such concerns can not be presented sep-

arately for Youngstown in Table I, page 736, without disclosing the operations of individual establishments. Youngstown ranked twenty-third in 1909 and thirty-second in 1904 among the manufacturing cities of the United States, as measured by value of products.

Akron was the fourth city of the state in 1909, reporting products valued at \$73,158,206, having advanced from seventh place in 1904, when \$33,559,243 was reported. It held seventh place also in 1899, when the output of its manufactures was valued at \$22,015,643. The manufacture of rubber goods is by far the leading industry, Akron being not only the most prominent center of that industry in the state but also in the United States. The manufacture of food preparations is next in importance, followed in order of value of products by printing and publishing, foundries and machine shops, flour-mill and gristmill products, automobiles, including bodies and parts, and pottery, terra-cotta, and fire-clay products. The statistics, however, for rubber goods, food preparations, flour-mill and gristmill products, and automobiles, including bodies and parts, can not be presented separately for Akron in Table I, page 729, without disclosing the operations of individual establishments.

Toledo, with products valued at \$61,229,542, was the fifth manufacturing city of the state in 1909, having dropped from fourth place in 1904, although the value of products increased from \$44,501,292, a gain of \$16,728,250, or 37.6 per cent, for the five-year period. The city owes its position in manufacturing to a comparatively wide range of industries, among which may be mentioned foundries and machine shops, with products valued at \$7,024,000; and flour-mill and gristmill products, with \$5,662,000. In 1909, 16.9 per cent of the wage earners reported for all manufacturing industries of the city were employed in foundries and machine shops. Other industries of importance in Toledo in 1909 were the roasting and grinding of coffee and spice, the blast furnaces, the manufacture of automobiles, including bodies and parts, petroleum refining, the manufacture of women's clothing, tobacco products, and linseed oil, and printing and publishing. The statistics for four of these industries—the first three named and linseed oil—could not be presented separately for Toledo in Table I, page 736, without disclosing the operations of individual establishments. Ten other industries in the city each reported products in 1909 valued at more than \$1,000,000 but less than \$2,000,000.

Dayton, the sixth city in the state when ranked by value of products, holds third place in respect to average number of wage earners employed. The total value of its products was \$60,378,376 in 1909 and \$39,596,773 in 1904, an increase for the five-year period of \$20,781,603, or 52.5 per cent. The leading industry in the city in 1909 was the manufacture of cash registers and calculating machines, in which Dayton outranks all other cities of the United States. Other industries, named in order of their importance in the value of products, were foundries and machine shops,

¹ These industries are:

Babbitt metal and solder.
Coffins, burial cases, and undertakers' goods.
House-furnishing goods, not elsewhere specified.
Ink, printing.
Oil, cottonseed, and cake.
Waste.

steam-railroad car construction shops, the manufacture of automobiles, including bodies and parts, and slaughtering and meat packing. The aggregate output for 1909 for these five leading industries represented 52.9 per cent of the total for all manufacturing industries in the city. Of these five industries the statistics can not be presented separately for Dayton, since comparative data are not available for automobiles, including bodies and parts, as it is a new industry, and as separate statistics for cash registers and steam-railroad car construction shops would disclose the operations of individual establishments. There are 10 other industries in the city each of which reported products in excess of \$1,000,000, the most important being the roasting and grinding of coffee and spice, the manufacture of sewing machines and attachments, and tobacco manufactures.

Columbus shows an increase in value of products from 1904 to 1909 of \$9,501,740, or 24 per cent, and from 1899 to 1904 of \$4,781,699, or 13.8 per cent. The leading industry in the city is foundry and machine-shop products, which were valued at \$7,744,000 in 1909 and represented 15.8 per cent of the total value of manufactures in the city. Other important industries were: Boots and shoes, with products valued at \$5,436,000; malt liquors, with \$2,728,000; printing and publishing, with \$2,660,000; and slaughtering and meat packing, with \$2,354,000.

Lorain, with products valued at \$38,986,996 in 1909, owes practically its entire industrial activity to the operation of two establishments—a steel works and rolling mill and a blast furnace. The value of the output of the blast furnace, however, was less than half that of the steel plant. All other industries except shipbuilding, for which one establishment was reported in 1909, are insignificant.

For Canton the most important industries were steel works and rolling mills, foundries and machine shops, and the manufacture of copper, tin, and sheet-iron products. A factory manufacturing automobile bodies and parts, an establishment engaged in the manufacture of safes and vaults, one tin-plate and terneplate mill, and two watch and watch-case factories located in Canton contributed considerably to its prominence in manufacture. Foundries and machineshops constitute the only one of these seven industries for which statistics can be presented separately for Canton in Table I, page 729, without disclosing the operations of individual establishments.

There are five cities in Ohio for which the products reported for 1909 were valued at more than \$10,000,000 but less than \$25,000,000, namely, Steubenville, Springfield, Hamilton, Middletown, and Bellaire. In both Steubenville and Bellaire the iron and steel industries (including tin plate and terneplate) contributed considerably more than half of the total value of products reported for the city, there being four establishments in the former city and two in the latter. In Bellaire the manufacture of stamped

and enameled ware and of glass are also important industries. The manufacture of agricultural implements is the largest industry in Springfield, the value of the products for this industry forming somewhat less than one-third of the total value shown for the city. Foundry and machine-shop products, printing and publishing, flour-mill and gristmill products, and pianos and organs and materials were also important. In Hamilton the leading industries were the manufacture of paper and wood pulp and of foundry and machine-shop products, their combined value of products being more than half of that reported for the city. The manufacture of safes and vaults and of copper, tin, and sheet-iron products are also important. Tobacco manufactures is by far the most important industry in Middletown, while the combined output of the five paper and wood pulp mills and of the steel works and rolling mill located in this city represented about one-fourth of the total for the city.

Of the remaining cities in Ohio for which statistics are shown separately in the preceding table, two had one industry each which contributed more than one-half of its total value of products for 1909, these cities being important centers of the respective industries in the state. In Portsmouth the value of boots and shoes was \$5,300,000, representing 72.8 per cent of the total reported for all manufactures in the city, while in East Liverpool pottery, terra-cotta, and fire-clay products were manufactured to the value of \$5,452,000, which amount represents 82.2 per cent of the total for that city.

The other cities of the state having products valued at more than \$5,000,000 but less than \$10,000,000, together with the two leading industries in each, were as follows: Norwood, printing and publishing and foundry and machine-shop products; Zanesville, iron and steel pipe, wrought, and steel works and rolling mills; Mansfield, agricultural implements and brass and bronze products; Elyria, chemicals and foundry and machine-shop products; Newark, glass and steam-railroad repair shops; Lima, tobacco manufactures and locomotives; Ironton, blast furnaces and wire; Piqua, hosiery and knit goods and stoves and furnaces; Alliance, foundry and machine-shop products and cash registers and calculating machines; Warren, foundry and machine-shop products and electrical machinery, apparatus, and supplies; Sandusky, vinous liquors and paper goods; and Marion, foundry and machine-shop products and agricultural implements.

The leading industry in each of the remaining cities of the state having over 10,000 inhabitants was as follows: Foundry and machine-shop products, in Massillon and in Tiffin; flour mills and gristmills, in Chillicothe; steel works and rolling mills, in Cambridge; boots and shoes, in Lancaster; petroleum refining, in Findlay and in Marietta; leather (tanned, curried, and finished), in Ashtabula; and electrical machinery and apparatus, in Lakewood.

Character of ownership.—The table that follows has for its purpose the presentation of conditions in respect to the character of ownership, or legal organization, of manufacturing enterprises. For all industries combined comparative figures are given covering the censuses of 1909 and 1904. Comparative data for

1899 are not available. Figures for 1909 only are presented for several important industries individually. In order to avoid disclosing the operations of individual concerns it is necessary to omit several important industries from this table and the one following.

INDUSTRY AND CHARACTER OF OWNERSHIP.	Number of establishments.	Average number of wage earners.	Value of products.	Value added by manufacture.	INDUSTRY AND CHARACTER OF OWNERSHIP.	Number of establishments.	Average number of wage earners.	Value of products.	Value added by manufacture.
ALL INDUSTRIES:					Butter, cheese, and condensed milk, 1909—Con.				
1909.....	15,138	446,984	\$1,437,935,817	\$613,733,870	Per cent of total.....	100.0	100.0	100.0	100.0
1904.....	13,785	364,298	960,811,857	433,175,272	Individual.....	26.8	15.3	16.4	13.5
Individual:					Firm.....	16.3	8.3	11.8	7.4
1909.....	6,978	34,345	88,075,465	41,358,065	Corporation.....	22.2	65.7	60.6	70.5
1904.....	6,590	36,980	80,034,354	40,150,057	Other.....	34.8	10.7	11.1	8.6
Firm:					Carriages and wagons and materials, 1909.....	407	8,815	\$21,949,459	\$10,535,458
1909.....	2,861	33,409	96,698,565	42,158,928	Individual.....	183	1,256	2,345,765	1,348,446
1904.....	3,002	38,519	101,947,038	47,273,310	Firm.....	97	1,164	2,858,841	1,312,097
Corporation:					Corporation.....	127	6,395	16,744,853	7,874,915
1909.....	5,123	378,473	1,249,778,444	528,329,235	Per cent of total.....	100.0	100.0	100.0	100.0
1904.....	4,008	288,591	777,392,416	345,106,135	Individual.....	45.0	14.2	10.7	12.8
Other:					Firm.....	23.8	13.2	13.0	12.5
1909.....	176	707	3,383,343	1,887,042	Corporation.....	31.2	72.5	76.3	74.7
1904.....	185	208	1,438,049	645,770	Clothing, men's, including shirts, 1909.....	342	9,950	\$24,869,437	\$11,949,357
Per cent of total:					Individual.....	227	2,873	4,235,966	2,466,330
1909.....	100.0	100.0	100.0	100.0	Firm.....	70	4,254	13,387,356	6,261,928
1904.....	100.0	100.0	100.0	100.0	Corporation.....	45	2,823	7,246,115	3,221,099
Individual:					Per cent of total.....	100.0	100.0	100.0	100.0
1909.....	46.1	7.7	6.1	6.7	Individual.....	66.4	28.9	17.0	20.6
1904.....	47.8	10.2	8.3	9.3	Firm.....	20.5	42.8	53.8	52.4
Firm:					Corporation.....	13.2	28.4	29.1	27.0
1909.....	18.9	7.5	6.7	6.9	Clothing, women's, 1909.....	153	8,843	\$19,493,060	\$9,202,477
1904.....	21.8	10.6	10.6	10.9	Individual.....	62	589	750,916	448,905
Corporation:					Firm.....	44	2,444	5,207,648	2,446,138
1909.....	33.8	84.7	86.9	86.1	Corporation.....	47	5,810	13,534,496	6,307,434
1904.....	29.1	79.2	80.9	79.7	Per cent of total.....	100.0	100.0	100.0	100.0
Other:					Individual.....	40.5	6.7	3.9	4.9
1909.....	1.2	0.2	0.2	0.3	Firm.....	28.8	27.6	26.7	26.6
1904.....	1.3	0.1	0.1	0.1	Corporation.....	30.7	65.7	69.4	68.5
Agricultural implements, 1909.....	55	5,997	\$14,440,461	\$8,121,942	Coffee and spice, roasting and grinding, 1909.....	39	762	\$11,224,437	\$2,947,098
Individual.....	10	51	122,107	62,906	Individual.....	5	23	302,060	53,496
Firm.....	4	148	525,896	267,763	Firm.....	7	121	1,010,768	282,637
Corporation.....	41	5,798	13,792,458	7,791,273	Corporation.....	27	618	9,911,609	2,610,965
Per cent of total.....	100.0	100.0	100.0	100.0	Per cent of total.....	100.0	100.0	100.0	100.0
Individual.....	18.2	0.8	0.8	0.8	Individual.....	12.8	3.0	2.7	1.8
Firm.....	7.3	2.5	3.6	3.3	Firm.....	17.9	15.9	9.0	9.6
Corporation.....	74.5	96.7	95.5	95.9	Corporation.....	69.2	81.1	88.3	88.6
Automobiles, including bodies and parts, 1909.....	75	12,130	\$38,838,754	\$20,316,756	Confectionery, 1909.....	114	2,493	\$7,306,574	\$3,217,656
Individual.....	10	147	227,816	137,171	Individual.....	41	380	909,091	426,178
Firm.....	13	228	1,608,896	788,593	Firm.....	26	387	917,511	422,453
Corporation.....	52	11,755	37,002,042	19,390,992	Corporation.....	47	1,726	5,479,072	2,369,025
Per cent of total.....	100.0	100.0	100.0	100.0	Per cent of total.....	100.0	100.0	100.0	100.0
Individual.....	13.3	1.2	0.6	0.7	Individual.....	36.0	15.2	12.5	13.2
Firm.....	17.3	1.9	4.1	3.9	Firm.....	22.8	15.5	12.6	13.1
Corporation.....	69.3	96.9	95.3	95.4	Corporation.....	41.2	69.2	75.0	73.6
Boots and shoes, including cut stock and findings, 1909.....	72	16,026	\$31,550,957	\$12,678,950	Flour-mill and gristmill products, 1909.....	673	2,585	\$48,093,353	\$6,740,746
Individual.....	8	307	514,920	218,034	Individual.....	280	604	8,472,566	1,467,028
Firm.....	13	1,852	3,360,551	1,512,723	Firm.....	272	671	11,645,211	1,844,075
Corporation.....	51	13,867	27,675,486	10,948,193	Corporation.....	121	1,310	27,975,576	3,429,643
Per cent of total.....	100.0	100.0	100.0	100.0	Per cent of total.....	100.0	100.0	100.0	100.0
Individual.....	11.1	1.9	1.6	1.7	Individual.....	41.6	23.4	17.6	21.8
Firm.....	18.1	11.6	10.7	11.9	Firm.....	40.4	26.0	24.2	27.4
Corporation.....	70.8	86.5	87.7	86.3	Corporation.....	18.0	50.7	58.2	50.9
Bread and other bakery products, 1909.....	1,467	5,972	\$23,007,131	\$9,340,898	Foundry and machine-shop products, 1909.....	1,218	64,817	\$145,836,648	\$81,276,753
Individual.....	1,232	2,824	10,381,455	4,182,351	Individual.....	283	2,108	4,727,124	2,085,005
Firm.....	164	598	2,299,455	933,424	Firm.....	173	2,871	6,350,524	3,465,944
Corporation.....	71	2,550	10,326,221	4,225,123	Corporation.....	762	59,838	134,759,000	75,125,804
Per cent of total.....	100.0	100.0	100.0	100.0	Per cent of total.....	100.0	100.0	100.0	100.0
Individual.....	84.0	47.3	45.1	44.8	Individual.....	23.2	3.3	3.2	3.3
Firm.....	11.2	10.0	10.0	10.0	Firm.....	14.2	4.4	4.4	4.3
Corporation.....	4.8	42.7	44.9	45.2	Corporation.....	62.6	92.3	92.4	92.4
Brick and tile, 1909.....	517	7,466	\$9,357,730	\$7,153,387	Furniture and refrigerators, 1909.....	228	8,232	\$16,258,757	\$9,016,312
Individual.....	211	994	1,200,580	934,044	Individual.....	66	895	1,698,026	912,404
Firm.....	153	1,095	1,407,180	1,066,681	Firm.....	40	537	1,070,674	633,800
Corporation.....	153	5,377	6,749,970	5,122,662	Corporation.....	122	6,800	13,490,057	7,470,108
Per cent of total.....	100.0	100.0	100.0	100.0	Per cent of total.....	100.0	100.0	100.0	100.0
Individual.....	40.8	13.3	12.8	13.1	Individual.....	28.9	10.9	10.4	10.1
Firm.....	29.6	14.7	15.0	15.3	Firm.....	17.5	6.5	6.6	7.0
Corporation.....	29.6	72.0	72.1	71.6	Corporation.....	53.5	82.6	83.0	82.9
Butter, cheese, and condensed milk, 1909.....	325	1,067	\$9,689,670	\$2,004,234	Per cent of total.....	100.0	100.0	100.0	100.0
Individual.....	87	163	1,592,131	271,005	Individual.....	28.9	10.9	10.4	10.1
Firm.....	53	89	1,144,155	148,102	Firm.....	17.5	6.5	6.6	7.0
Corporation.....	72	701	5,874,514	1,413,458	Corporation.....	53.5	82.6	83.0	82.9
Other.....	113	114	1,078,870	171,669					

¹ Includes the group "Other," to avoid disclosure of individual operations.

INDUSTRY AND CHARACTER OF OWNERSHIP.	Number of establishments.	Average number of wage earners.	Value of products.	Value added by manufacture.	INDUSTRY AND CHARACTER OF OWNERSHIP.	Number of establishments.	Average number of wage earners.	Value of products.	Value added by manufacture.
Liquors, malt, 1909	105	4,356	\$25,332,059	\$18,768,959	Printing and publishing, 1909—Continued.				
Individual	12	141	644,346	438,829	Per cent of total	100.0	100.0	100.0	100.0
Firm	10	205	1,557,171	1,093,474	Individual	50.1	17.4	15.6	16.4
Corporation	83	4,010	23,130,542	17,216,656	Firm	17.1	10.2	7.8	7.8
Per cent of total	100.0	100.0	100.0	100.0	Corporation	29.2	68.7	71.2	70.2
Individual	11.4	3.2	2.5	2.6	Other	3.6	3.6	5.4	5.6
Firm	9.5	4.7	6.1	5.7	Slaughtering and meat packing, 1909	158	3,086	\$50,804,100	\$6,456,938
Corporation	79.0	92.1	91.3	91.7	Individual	80	463	7,690,049	968,040
Lumber and timber products, 1909	1,390	13,456	\$34,597,069	\$14,624,706	Firm	31	148	4,044,496	416,638
Individual	753	3,797	7,709,569	3,895,347	Corporation	47	2,475	39,069,555	5,071,360
Firm	352	2,623	6,122,840	2,610,682	Per cent of total	100.0	100.0	100.0	100.0
Corporation	285	7,036	20,765,660	8,117,667	Individual	50.6	15.0	15.1	15.0
Per cent of total	100.0	100.0	100.0	100.0	Firm	19.6	4.8	8.0	6.5
Individual	54.2	28.2	22.3	26.6	Corporation	29.7	80.2	76.9	78.5
Firm	25.3	19.5	17.7	17.9	Tobacco manufactures, 1909	1,146	12,631	\$28,907,269	\$16,832,446
Corporation	20.5	52.3	60.0	55.5	Individual	963	3,259	5,121,142	3,272,670
Printing and publishing, 1909	1,655	15,756	\$41,657,306	\$29,752,952	Firm	137	2,751	3,715,795	2,378,108
Individual	829	2,745	6,510,373	4,891,752	Corporation	46	6,621	20,070,332	11,181,668
Firm	283	1,615	3,292,528	2,306,498	Per cent of total	100.0	100.0	100.0	100.0
Corporation	433	10,832	29,673,914	20,877,439	Individual	84.0	25.8	17.7	19.4
Other	60	584	2,240,491	1,677,263	Firm	12.0	21.8	12.9	14.1
					Corporation	4.0	52.4	69.4	66.4

The most important distinction shown is that between corporate and all other forms of ownership. Of the total number of establishments in all industries combined, 33.8 per cent were under corporate ownership in 1909, as against 66.2 per cent under all other forms. The corresponding proportions for 1904 were 29.1 and 70.9 per cent, respectively. In respect to value of products, the diversity in the figures for the two classes was even more pronounced but in the opposite direction. In 1909 the establishments operated by corporations represented 86.9 per cent of the total value as against 13.1 per cent for establishments under all other forms of ownership, while in 1904 the corresponding figures were 80.9 per cent and 19.1 per cent, respectively. The establishments operated by firms decreased from 1904 to 1909 both in number and in the value of their products. They represented, in 1909, 18.9 per cent of the total number of establishments, as compared with 21.8 per cent in 1904, and contributed in 1909 only 6.7 per cent of the total value of products, as compared with 10.6 per cent in 1904.

Establishments under corporate ownership reported a larger proportion of the value of products (95.5 per cent), in the manufacture of agricultural implements than in any other industry shown separately in the table. The proportion of the total value of products reported for establishments under individual ownership was largest in the bakery industry (45.1 per cent), and that for establishments operated by firms greatest in the manufacture of men's clothing (53.8 per cent).

Size of establishment.—The tendency for manufacturing to become concentrated in large establishments, or the reverse, is a matter of interest from the standpoint of industrial organization. In order to throw some light upon it the table on the following page groups the establishments according to the value of their products. The table also shows the average size

of establishments for all industries combined and for important industries separately, as measured by number of wage earners, value of products, and value added by manufacture. The totals for all industries are shown for the last two censuses, while for certain important industries figures are given for 1909 only.

The table shows that in 1909, of the 15,138 establishments, only 245, or 1.6 per cent, had a value of products of \$1,000,000 and over. These establishments, however, employed an average of 142,832 wage earners, or 32 per cent of the total number in all establishments, and reported 46.3 per cent of the total value of products and 39.8 per cent of the total value added by manufacture.

On the other hand, the very small establishments—that is, those having a value of products of less than \$5,000—constituted a considerable proportion (33.7 per cent) of the total number of establishments, but the value of their products amounted to only eight-tenths of 1 per cent of the total. The great bulk of the manufacturing was carried on in establishments having a product valued at not less than \$100,000.

It will be seen from the table that during the five years from 1904 to 1909 there was a marked increase, as measured by average number of wage earners, value of products, and value added by manufacture, in the relative importance of the largest establishments—those reporting products of not less than \$1,000,000 in value—and a decrease in that of all other classes.

The fact that the average value of products per establishment increased from \$69,700 to \$94,988, and the value added by manufacture from \$31,424 to \$40,543, can not be taken as in itself indicating a tendency toward concentration. The increased values shown may be, and probably are, due in part to the increase that has taken place in the prices of com-

modities. The average number of wage earners per establishment increased from 26 in 1904 to 30 in 1909.

This table shows further that among the industries given separately in the table the average value of products per establishment was high in the manufacture of automobiles, the boot and shoe industry, and in slaughtering and meat packing, while the average was low in the bakery, brick and tile, and lumber

industries. The average value of products in the automobile factories was \$517,850 and in the bakeries \$15,683. In the steel works and rolling mills, blast furnaces, tin-plate and terneplate factories, and petroleum refineries, the average value of products per establishment exceeded \$1,000,000, but the statistics as required in this table can not be presented separately for these industries without disclosing the operations of individual establishments.

INDUSTRY AND VALUE OF PRODUCTS.	Number of establishments.	Average number of wage earners.	Value of products.	Value added by manufacture.	INDUSTRY AND VALUE OF PRODUCTS.	Number of establishments.	Average number of wage earners.	Value of products.	Value added by manufacture.
ALL INDUSTRIES:					Bread and other bakery products, 1909				
1909.....	15,138	446,934	\$1,437,935,817	\$613,733,870	Less than \$5,000.....	1,467	5,972	\$23,007,131	\$9,340,898
1904.....	13,785	364,298	960,811,857	433,175,272	\$5,000 and less than \$20,000.....	557	397	1,618,993	715,540
Less than \$5,000:					\$20,000 and less than \$100,000.....	726	1,854	6,087,277	2,756,504
1909.....	5,095	7,021	12,198,229	7,811,667	\$100,000 and less than \$1,000,000.....	151	1,458	5,521,220	2,058,762
1904.....	4,857	7,831	11,804,202	7,737,680	Average per establishment.....	33	2,263	9,179,641	3,810,032
\$5,000 and less than \$20,000:					Per cent of total.....	100.0	100.0	100.0	100.0
1909.....	4,474	23,571	46,028,999	26,309,694	Less than \$5,000.....	38.0	6.6	7.0	7.7
1904.....	4,147	24,003	42,532,939	24,242,565	\$5,000 and less than \$20,000.....	49.5	31.0	29.1	29.5
\$20,000 and less than \$100,000:					\$20,000 and less than \$100,000.....	10.3	24.4	24.0	22.0
1909.....	3,405	64,853	156,080,099	76,806,053	\$100,000 and less than \$1,000,000.....	2.2	37.9	39.9	40.8
1904.....	3,083	60,880	139,906,286	71,518,400	Average per establishment.....	4		\$15,683	\$6,367
\$100,000 and less than \$1,000,000:					Brick and tile, 1909				
1909.....	1,919	208,056	557,384,719	258,737,951	Less than \$5,000.....	517	7,466	\$9,357,730	\$7,153,387
1904.....	1,562	181,411	434,781,943	202,893,808	\$5,000 and less than \$20,000.....	246	646	670,208	531,882
\$1,000,000 and over:					\$20,000 and less than \$100,000.....	162	1,446	1,649,911	1,280,893
1909.....	245	142,833	666,243,771	244,068,505	\$100,000 and less than \$1,000,000.....	94	3,463	4,287,605	3,248,814
1904.....	136	84,173	331,726,477	126,782,819	\$1,000,000 and less than \$1,000,000.....	15	1,911	2,750,006	2,091,798
Per cent of total:					Per cent of total.....	100.0	100.0	100.0	100.0
1909.....	100.0	100.0	100.0	100.0	Less than \$5,000.....	47.6	8.7	7.2	7.4
1904.....	100.0	100.0	100.0	100.0	\$5,000 and less than \$20,000.....	31.3	19.4	17.6	17.9
Less than \$5,000:					\$20,000 and less than \$100,000.....	18.2	46.4	45.8	45.4
1909.....	33.7	1.6	0.8	1.3	\$100,000 and less than \$1,000,000.....	2.9	25.6	29.4	29.2
1904.....	35.2	2.1	1.2	1.8	Average per establishment.....	14		\$18,100	\$13,836
\$5,000 and less than \$20,000:					Butter, cheese, and condensed milk, 1909				
1909.....	29.6	5.2	3.2	4.3	Less than \$5,000.....	325	1,067	\$9,689,670	\$2,004,234
1904.....	30.1	6.6	4.4	5.6	\$5,000 and less than \$20,000.....	123	54	333,361	71,210
\$20,000 and less than \$100,000:					\$20,000 and less than \$100,000.....	104	112	1,059,911	195,735
1909.....	22.5	14.5	10.9	12.5	\$100,000 and less than \$1,000,000.....	77	282	2,890,024	512,951
1904.....	22.4	18.4	14.6	16.5	\$1,000,000 and less than \$1,000,000.....	21	619	5,406,067	1,224,348
\$100,000 and less than \$1,000,000:					Per cent of total.....	100.0	100.0	100.0	100.0
1909.....	12.7	46.7	38.8	42.2	Less than \$5,000.....	37.8	5.1	3.4	3.0
1904.....	11.3	49.8	45.3	46.8	\$5,000 and less than \$20,000.....	32.0	10.5	10.9	8.8
\$1,000,000 and over:					\$20,000 and less than \$100,000.....	23.7	26.4	29.8	25.0
1909.....	1.6	32.0	46.3	39.8	\$100,000 and less than \$1,000,000.....	6.5	58.0	58.8	61.1
1904.....	1.0	23.1	34.5	29.3	Average per establishment.....	3		\$29,814	\$6,167
Average per establishment:					Carriages and wagons and materials, 1909				
1909.....	30		\$94,988	\$40,543	Less than \$5,000.....	407	8,815	\$21,949,459	\$10,535,458
1904.....	26		69,700	31,424	\$5,000 and less than \$20,000.....	84	155	227,147	154,619
Agricultural implements, 1909	55	5,997	\$14,440,461	\$8,121,942	\$20,000 and less than \$100,000.....	172	1,073	1,788,714	1,118,304
Less than \$5,000.....	8	12	19,452	12,550	\$100,000 and less than \$1,000,000.....	89	1,968	4,250,008	2,092,509
\$5,000 and less than \$20,000.....	10	50	117,250	69,183	\$1,000,000 and less than \$1,000,000.....	62	5,619	15,683,590	7,170,026
\$20,000 and less than \$100,000.....	12	291	652,373	301,332	Per cent of total.....	100.0	100.0	100.0	100.0
\$100,000 and less than \$1,000,000.....	22	3,340	8,389,730	4,696,335	Less than \$5,000.....	20.6	1.8	1.0	1.5
\$1,000,000 and over.....	3	2,304	5,261,656	2,952,542	\$5,000 and less than \$20,000.....	42.3	12.2	8.1	10.6
Per cent of total.....	100.0	100.0	100.0	100.0	\$20,000 and less than \$100,000.....	21.9	22.3	19.4	19.9
Less than \$5,000.....	14.5	0.2	0.1	0.2	\$100,000 and less than \$1,000,000.....	15.2	63.7	71.5	68.1
\$5,000 and less than \$20,000.....	18.2	0.8	0.8	0.8	Average per establishment.....	22		\$53,930	\$25,886
\$20,000 and less than \$100,000.....	21.8	4.9	4.5	4.8	Clothing, men's, including shirts, 1909				
\$100,000 and less than \$1,000,000.....	40.0	55.7	58.1	57.8	Less than \$5,000.....	342	9,950	\$24,869,437	\$11,949,357
\$1,000,000 and over.....	5.5	38.4	36.4	36.4	Less than \$5,000.....	119	549	296,005	284,219
Average per establishment.....	109		\$262,554	\$147,672	\$5,000 and less than \$20,000.....	116	1,784	1,084,327	945,399
Automobiles, including bodies and parts, 1909	75	12,130	\$38,838,754	\$20,316,756	\$20,000 and less than \$100,000.....	53	1,537	2,701,557	1,302,380
Less than \$5,000.....	7	8	20,426	13,391	\$100,000 and less than \$1,000,000.....	54	6,080	20,786,948	9,417,959
\$5,000 and less than \$20,000.....	12	73	148,768	93,543	Per cent of total.....	100.0	100.0	100.0	100.0
\$20,000 and less than \$100,000.....	21	549	941,263	555,539	Less than \$5,000.....	34.8	5.5	1.2	2.4
\$100,000 and less than \$1,000,000.....	22	2,714	7,244,613	3,586,193	\$5,000 and less than \$20,000.....	33.9	17.9	4.4	7.9
\$1,000,000 and over.....	13	8,786	30,483,684	16,068,090	\$20,000 and less than \$100,000.....	15.5	15.4	10.9	10.9
Per cent of total.....	100.0	100.0	100.0	100.0	\$100,000 and less than \$1,000,000.....	15.8	61.1	83.6	78.8
Less than \$5,000.....	9.3	0.1	0.1	0.1	Average per establishment.....	29		\$72,718	\$34,940
\$5,000 and less than \$20,000.....	16.0	0.6	0.4	0.5	Clothing, women's, 1909				
\$20,000 and less than \$100,000.....	23.0	4.5	2.4	2.7	Less than \$5,000.....	153	8,843	\$19,493,060	\$9,202,477
\$100,000 and less than \$1,000,000.....	29.3	22.4	18.7	17.6	Less than \$5,000.....	42	154	103,484	88,862
\$1,000,000 and over.....	17.3	72.4	78.5	79.1	\$5,000 and less than \$20,000.....	27	316	286,802	208,521
Average per establishment.....	162		\$517,850	\$270,890	\$20,000 and less than \$100,000.....	42	1,234	2,162,544	969,594
Boots and shoes, including cut stock and findings, 1909	72	16,026	\$31,550,957	\$12,678,950	\$100,000 and less than \$1,000,000.....	39	5,095	11,562,057	5,277,791
Less than \$5,000.....	4	17	9,827	5,272	\$1,000,000 and over.....	3	2,044	5,378,173	2,656,709
\$5,000 and less than \$20,000.....	9	75	94,097	54,113	Per cent of total.....	100.0	100.0	100.0	100.0
\$20,000 and less than \$100,000.....	9	334	404,621	199,611	Less than \$5,000.....	27.4	1.7	0.5	1.0
\$100,000 and less than \$1,000,000.....	40	7,368	14,136,417	5,555,195	\$5,000 and less than \$20,000.....	17.6	3.6	1.5	2.3
\$1,000,000 and over.....	10	8,232	16,905,995	6,864,759	\$20,000 and less than \$100,000.....	27.4	14.0	11.1	10.5
Per cent of total.....	100.0	100.0	100.0	100.0	\$100,000 and less than \$1,000,000.....	25.5	57.6	59.3	57.3
Less than \$5,000.....	5.6	0.1	(¹)	(¹)	\$1,000,000 and over.....	2.0	23.1	27.6	28.9
\$5,000 and less than \$20,000.....	12.5	0.5	0.3	0.4	Average per establishment.....	58		\$127,406	\$60,157
\$20,000 and less than \$100,000.....	12.5	2.1	1.3	1.6	Less than one-tenth of 1 per cent.				
\$100,000 and less than \$1,000,000.....	55.6	46.0	44.8	43.8	Includes the group " \$1,000,000 and over."				
\$1,000,000 and over.....	13.9	51.4	53.6	54.2					
Average per establishment.....	223		\$438,208	\$176,097					

¹ Less than one-tenth of 1 per cent.

² Includes the group " \$1,000,000 and over."

INDUSTRY AND VALUE OF PRODUCTS.	Number of establishments.	Average number of wage earners.	Value of products.	Value added by manufacture.	INDUSTRY AND VALUE OF PRODUCTS.	Number of establishments.	Average number of wage earners.	Value of products.	Value added by manufacture.
Coffee and spice, roasting and grinding, 1909	39	762	\$11,224,437	\$2,947,098	Liquors, malt, 1909	105	4,356	\$25,332,059	\$18,768,959
Less than \$5,000	3	2	9,465	3,845	Less than \$5,000	4	5	8,855	5,915
\$5,000 and less than \$20,000	4	10	45,975	11,485	\$5,000 and less than \$20,000	7	30	75,779	46,192
\$20,000 and less than \$100,000	10	45	446,753	113,144	\$20,000 and less than \$100,000	37	467	2,126,651	1,485,898
\$100,000 and less than \$1,000,000	18	407	4,819,723	1,354,060	\$100,000 and less than \$1,000,000	52	2,370	13,794,286	10,313,489
\$1,000,000 and over	4	298	5,902,521	1,464,564	\$1,000,000 and over	6	1,484	9,328,488	6,912,465
Per cent of total	100.0	100.0	100.0	100.0	Per cent of total	100.0	100.0	100.0	100.0
Less than \$5,000	7.7	0.3	0.1	0.1	Less than \$5,000	3.8	0.1	(2)	(3)
\$5,000 and less than \$20,000	10.3	1.3	0.4	0.4	\$5,000 and less than \$20,000	6.7	0.7	0.3	0.2
\$20,000 and less than \$100,000	25.6	5.9	4.0	3.8	\$20,000 and less than \$100,000	34.3	10.7	8.4	7.9
\$100,000 and less than \$1,000,000	46.2	53.4	42.9	45.9	\$100,000 and less than \$1,000,000	49.5	54.4	54.5	55.0
\$1,000,000 and over	10.3	39.1	52.6	49.7	\$1,000,000 and over	5.7	34.1	36.8	36.8
Average per establishment		20	\$287,806	\$75,567	Average per establishment		41	\$241,258	\$178,752
Confectionery, 1909	114	2,493	\$7,308,574	\$3,217,656	Lumber and timber products, 1909	1,390	13,456	\$34,597,069	\$14,624,706
Less than \$5,000	27	31	60,400	29,231	Less than \$5,000	574	1,121	1,370,723	868,699
\$5,000 and less than \$20,000	36	178	378,643	181,430	\$5,000 and less than \$20,000	453	2,561	4,565,738	2,504,581
\$20,000 and less than \$100,000	32	540	1,588,573	671,091	\$20,000 and less than \$100,000	284	4,901	12,920,125	5,425,620
\$100,000 and less than \$1,000,000	19	1,744	5,298,958	2,335,904	\$100,000 and less than \$1,000,000	79	4,873	15,740,483	5,825,906
Per cent of total	100.0	100.0	100.0	100.0	Per cent of total	100.0	100.0	100.0	100.0
Less than \$5,000	23.7	1.2	0.8	0.9	Less than \$5,000	41.3	8.3	4.0	5.9
\$5,000 and less than \$20,000	31.6	7.1	5.2	5.6	\$5,000 and less than \$20,000	32.6	19.0	13.2	17.1
\$20,000 and less than \$100,000	28.1	21.7	21.5	20.9	\$20,000 and less than \$100,000	20.4	36.4	37.3	37.1
\$100,000 and less than \$1,000,000	16.7	70.0	72.6	72.6	\$100,000 and less than \$1,000,000	5.7	36.2	45.5	39.8
Average per establishment		22	\$64,093	\$28,225	Average per establishment		10	\$24,890	\$10,521
Flour-mill and gristmill products, 1909	673	2,585	\$48,093,353	\$6,740,746	Printing and publishing, 1909	1,655	15,756	\$41,657,308	\$29,752,952
Less than \$5,000	41	33	125,064	30,114	Less than \$5,000	795	1,095	1,939,089	1,490,403
\$5,000 and less than \$20,000	191	207	2,308,342	400,476	\$5,000 and less than \$20,000	524	2,823	5,208,241	4,044,786
\$20,000 and less than \$100,000	368	1,051	15,827,039	2,719,774	\$20,000 and less than \$100,000	260	4,713	10,754,812	7,765,373
\$100,000 and less than \$1,000,000	64	750	16,641,107	1,954,400	\$100,000 and less than \$1,000,000	72	5,624	18,731,793	13,187,171
\$1,000,000 and over	9	544	13,191,741	1,575,982	\$1,000,000 and over	4	1,501	5,023,371	3,259,219
Per cent of total	100.0	100.0	100.0	100.0	Per cent of total	100.0	100.0	100.0	100.0
Less than \$5,000	6.1	1.3	0.3	0.4	Less than \$5,000	48.0	6.9	4.7	5.0
\$5,000 and less than \$20,000	28.4	8.0	4.8	6.8	\$5,000 and less than \$20,000	31.7	17.9	12.5	13.6
\$20,000 and less than \$100,000	54.7	40.7	32.9	40.4	\$20,000 and less than \$100,000	15.7	29.9	25.8	20.1
\$100,000 and less than \$1,000,000	9.5	29.0	34.6	29.0	\$100,000 and less than \$1,000,000	4.4	35.7	45.0	44.3
\$1,000,000 and over	1.3	21.0	27.4	23.4	\$1,000,000 and over	0.2	9.5	12.1	11.0
Average per establishment		4	\$71,461	\$10,016	Average per establishment		10	\$25,171	\$17,978
Foundry and machine-shop products, 1909	1,218	64,817	\$145,838,648	\$81,276,753	Slaughtering and meat packing, 1909	158	3,086	\$50,804,100	\$6,456,938
Less than \$5,000	198	280	481,119	317,218	Less than \$5,000	7	11	26,156	13,002
\$5,000 and less than \$20,000	303	1,830	3,347,103	2,172,448	\$5,000 and less than \$20,000	18	19	196,283	35,274
\$20,000 and less than \$100,000	401	9,752	19,627,491	11,223,823	\$20,000 and less than \$100,000	60	224	3,277,587	568,803
\$100,000 and less than \$1,000,000	293	38,563	86,934,104	47,427,402	\$100,000 and less than \$1,000,000	61	1,088	20,274,934	2,487,572
\$1,000,000 and over	23	14,392	35,446,831	20,135,862	\$1,000,000 and over	12	1,744	27,029,140	3,352,287
Per cent of total	100.0	100.0	100.0	100.0	Per cent of total	100.0	100.0	100.0	100.0
Less than \$5,000	16.3	0.4	0.3	0.4	Less than \$5,000	4.4	0.4	0.1	0.2
\$5,000 and less than \$20,000	24.9	2.8	2.3	2.7	\$5,000 and less than \$20,000	11.4	0.6	0.4	0.5
\$20,000 and less than \$100,000	32.9	15.0	13.5	13.8	\$20,000 and less than \$100,000	38.0	7.3	6.5	8.8
\$100,000 and less than \$1,000,000	24.1	59.5	59.6	58.3	\$100,000 and less than \$1,000,000	38.6	35.3	39.9	38.5
\$1,000,000 and over	1.9	22.2	24.3	24.8	\$1,000,000 and over	7.6	56.5	53.2	51.9
Average per establishment		53	\$119,735	\$66,730	Average per establishment		20	\$321,545	\$40,867
Furniture and refrigerators, 1909	228	8,232	\$16,258,757	\$9,016,312	Tobacco manufactures, 1909	1,146	12,631	\$28,807,269	\$16,832,446
Less than \$5,000	35	43	91,623	62,003	Less than \$5,000	800	808	1,658,381	1,104,749
\$5,000 and less than \$20,000	54	357	599,079	369,452	\$5,000 and less than \$20,000	184	1,263	1,702,071	1,129,261
\$20,000 and less than \$100,000	101	3,086	5,341,808	2,851,220	\$20,000 and less than \$100,000	64	2,218	2,900,171	1,840,402
\$100,000 and less than \$1,000,000	38	4,746	10,226,247	5,733,637	\$100,000 and less than \$1,000,000	34	6,010	8,617,942	4,920,900
Per cent of total	100.0	100.0	100.0	100.0	\$1,000,000 and over	4	2,332	14,028,704	7,831,134
Less than \$5,000	15.4	0.5	0.6	0.7	Per cent of total	100.0	100.0	100.0	100.0
\$5,000 and less than \$20,000	23.7	4.3	3.7	4.1	Less than \$5,000	75.0	6.4	5.7	6.6
\$20,000 and less than \$100,000	44.3	37.5	32.9	31.6	\$5,000 and less than \$20,000	16.1	10.0	5.9	6.7
\$100,000 and less than \$1,000,000	16.7	57.7	62.9	63.6	\$20,000 and less than \$100,000	5.6	17.6	10.0	10.9
Average per establishment		36	\$71,310	\$39,545	\$100,000 and less than \$1,000,000	3.0	47.6	29.8	29.3
					\$1,000,000 and over	0.3	18.5	48.5	46.5
					Average per establishment		11	\$25,234	\$14,688

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

² Less than one-tenth of 1 per cent.

In some respects, and especially from the standpoint of conditions under which persons engaged in manufactures work, the best classification of establishments to bring out the feature of size is a classification according to the number of wage earners employed. The table on the following page shows, for 1909, such a classification for all industries combined and for 40 important industries individually, and gives, not only the number of establishments falling into each group, but also the average number of wage earners employed.

Of the 15,138 establishments reported for all industries, 10 per cent employed no wage earners; 48.4 per cent, from 1 to 5; 20.9 per cent, from 6 to 20; and 9.4 per cent, from 21 to 50. The most numerous single

group consists of the 7,320 establishments employing from 1 to 5 wage earners, and the next consists of the 3,163 establishments employing from 6 to 20 wage earners. There were 337 establishments that employed over 250 wage earners; 33 of these employed over 1,000, of which 8 were steel works and rolling mills and 4 automobile factories.

Of the total number of wage earners, 44 per cent were in establishments employing over 250 wage earners. The single group having the largest number of employees was the group comprising the establishments employing from 101 to 250 wage earners. This group employed 98,905 wage earners, or 22.1 per cent of the total. The average per establishment in this

group was 156. More than two-fifths of the total wage earners employed in the following industries were in this class of establishments: Hosiery and knit-goods mills; blast furnaces; distilleries; paint and varnish factories; pottery, terra-cotta, and fire-clay factories;

and tin-plate and terneplate mills. All of the individual industries listed in this table but not in the preceding one are those in which comparatively large establishments do most of the business, as appears from the classification according to the number of wage earners.

INDUSTRY.	Total.	ESTABLISHMENTS EMPLOYING—								
		No wage earners.	1 to 5 wage earners.	6 to 20 wage earners.	21 to 50 wage earners.	51 to 100 wage earners.	101 to 250 wage earners.	251 to 500 wage earners.	501 to 1,000 wage earners.	Over 1,000 wage earners.
NUMBER OF ESTABLISHMENTS.										
All industries.....	15,138	1,521	7,329	3,163	1,429	733	635	199	105	23
Agricultural implements.....	55	3	12	8	10	3	13	4	1	1
Automobiles, including bodies and parts.....	75	1	14	17	9	9	10	9	2	4
Boots and shoes, including cut stock and findings.....	72	1	4	11	5	10	23	9	7	2
Brass and bronze products.....	82	3	31	29	9	5	2	3		
Bread and other bakery products.....	1,467	220	1,055	151	22	13	6			
Brick and tile.....	517	4	276	141	59	27	10			
Butter, cheese, and condensed milk.....	325	27	266	24	3	4	1			
Carriages and wagons and materials.....	407	9	167	135	48	27	21			
Cars and general shop construction and repairs by steam-railroad companies.....	71		2	5	6	8	13		13	1
Cars, steam-railroad, not including operations of railroad companies.....	6				2	1	1	1		1
Chemicals.....	33	2	13	12	2	1	1	2		
Clothing, men's, including shirts.....	342	8	95	138	60	24	13	2	1	1
Clothing, women's.....	153	3	39	41	29	19	16	4	1	1
Coffee and spice, roasting and grinding.....	39	1	15	13	5	4	1			
Confectionery.....	114	12	42	30	14	9	7			
Copper, tin, and sheet-iron products.....	221	4	107	55	28	9	12	6		
Electrical machinery, apparatus, and supplies.....	115	1	35	29	15	12	15	6	1	1
Flour-mill and gristmill products.....	673	59	529	68	13	3	1			
Foundry and machine-shop products.....	1,218	47	355	316	211	124	111	35	16	3
Furniture and refrigerators.....	228	7	51	62	67	24	14	2	1	
Glass.....	45			3	5	8	16	6	6	1
Hosiery and knit goods.....	39		10	2	7	9	9	2		
Iron and steel, blast furnaces.....	40		1		3	8	20	6	2	
Iron and steel, steel works and rolling mills.....	75			5	5	7	17	17	16	8
Leather, tanned, curried, and finished.....	36	1	11	5	12	3	3		1	
Liquors, distilled.....	17	3	5	5	2	1	1			
Liquors, malt.....	105	2	6	41	35	12	6	3		
Lumber and timber products.....	1,390	28	831	376	114	30	11			
Paint and varnish.....	87	3	49	22	7		6			
Paper and wood pulp.....	47			5	15	14	11	1	1	
Paper goods, not elsewhere specified.....	28		9	7	5	3	1	2	1	
Petroleum, refining.....	10			2	3	1	2	1	1	
Pottery, terra-cotta, and fire-clay products.....	186	2	15	18	53	43	45	7	3	
Printing and publishing.....	1,655	326	817	351	101	38	18	3	1	
Slaughtering and meat packing.....	158	12	80	36	14	13	1	1	1	
Soap.....	44	6	16	11	5	3	1	1	1	
Stoves and furnaces, including gas and oil stoves.....	102	2	26	20	18	19	12	2	2	1
Tin plate and terneplate.....	4					1	3			
Tobacco manufactures.....	1,146	352	599	109	38	18	20	6	4	
Woolen, worsted, and felt goods, and wool hats.....	20		4	5	3	2	5			1
All other industries.....	3,691	372	1,733	855	367	164	136	35	22	7
AVERAGE NUMBER OF WAGE EARNERS.										
All industries.....	446,934	17,097	35,261	46,960	52,186	98,905	69,553	70,883	56,089	
Agricultural implements.....	5,997	33	90	318	227	2,170	1,287	530	1,342	
Automobiles, including bodies and parts.....	12,130	36	204	386	586	1,421	3,248	1,351	4,898	
Boots and shoes, including cut stock and findings.....	16,026	10	118	162	739	3,885	3,303	4,908	2,901	
Brass and bronze products.....	2,232	89	356	285	339	296	867			
Bread and other bakery products.....	5,972	2,119	1,389	723	920	821				
Brick and tile.....	7,466	752	1,521	1,929	1,788	1,476				
Butter, cheese, and condensed milk.....	1,067	329	249	82	289	118				
Carriages and wagons and materials.....	8,815	511	1,449	1,706	1,983	3,166				
Cars and general shop construction and repairs by steam-railroad companies.....	20,728	7	75	165	559	1,954	7,562	8,420	1,986	
Cars, steam-railroad, not including operations of railroad companies.....	2,282			48	52	121	252		1,809	
Chemicals.....	1,132	27	160	57	58	126	704			
Clothing, men's, including shirts.....	9,950	308	1,706	1,935	1,716	2,044	618	550	1,073	
Clothing, women's.....	8,843	132	483	1,032	1,406	2,668	1,553	504	1,065	
Coffee and spice, roasting and grinding.....	762	41	162	168	280	111				
Confectionery.....	2,493	110	305	455	646	977				
Copper, tin, and sheet-iron products.....	6,598	281	561	895	634	2,106	2,121			
Electrical machinery, apparatus, and supplies.....	8,073	79	337	448	834	2,446	1,944	809	1,176	
Flour-mill and gristmill products.....	2,585	1,182	645	427	181	150				
Foundry and machine-shop products.....	64,817	1,013	3,836	7,214	9,185	17,141	11,922	10,576	3,930	
Furniture and refrigerators.....	8,232	124	741	2,307	1,672	2,036	674			
Glass.....	10,159		54	164	544	2,659	2,670	3,440	1,038	
Hosiery and knit goods.....	3,149	25	29	229	672	1,550	644			
Iron and steel, blast furnaces.....	7,295	2		112	632	3,155	2,998	1,196		
Iron and steel, steel works and rolling mills.....	38,586		66	157	534	2,867	6,780	12,149	16,033	
Leather, tanned, curried, and finished.....	1,884	26	53	366	219	452		763		
Liquors, distilled.....	374	3	56	60	80	175				
Liquors, malt.....	4,356	14	495	1,127	832	915	973			
Lumber and timber products.....	13,466	2,018	4,058	3,569	2,108	1,703				
Paint and varnish.....	1,535	129	217	227		962				
Paper and wood pulp.....	4,673		88	496	955	1,095	439	1,000		
Paper goods, not elsewhere specified.....	2,040	23	82	170	222	144	652	747		
Petroleum, refining.....	1,659		27	99	97	248	480	708		
Pottery, terra-cotta, and fire-clay products.....	16,519	34	221	1,904	3,086	7,145	2,302	1,827		
Printing and publishing.....	15,766	2,060	3,714	3,161	2,632	2,562	1,112	515		
Slaughtering and meat packing.....	3,086	204	400	474	961	122	347	578		
Soap.....	1,774	34	113	167	194	223	265	778		
Stoves and furnaces, including gas and oil stoves.....	7,274	69	260	580	1,354	1,854	771	1,151	1,235	
Tin plate and terneplate.....	676				78	598				
Tobacco manufactures.....	12,631	1,137	1,154	1,266	1,226	2,979	2,295	2,574		
Woolen, worsted, and felt goods, and wool hats.....	2,566	8	54	76	168	951			1,909	
All other industries.....	101,286	4,128	9,733	11,814	11,498	20,713	11,980	15,126	16,294	

STATISTICS OF MANUFACTURES.

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INDUSTRY.	Total.	ESTABLISHMENTS EMPLOYING—								
		No wage earners.	1 to 5 wage earners.	6 to 20 wage earners.	21 to 50 wage earners.	51 to 100 wage earners.	101 to 250 wage earners.	251 to 500 wage earners.	501 to 1,000 wage earners.	Over 1,000 wage earners.
		PER CENT OF AVERAGE NUMBER OF WAGE EARNERS.								
All industries	100.0	3.8	7.9	10.5	11.7	22.1	15.6	15.9	12.5	
Agricultural implements.....	100.0	0.6	1.5	5.3	3.8	36.2	21.5	8.8	22.4	
Automobiles, including bodies and parts.....	100.0	0.3	1.7	3.2	4.8	11.7	26.8	11.1	40.4	
Boots and shoes, including cut stock and findings.....	100.0	0.1	0.7	1.0	4.6	24.2	20.6	30.6	18.1	
Brass and bronze products.....	100.0	4.0	15.9	12.8	15.2	13.3	38.8			
Bread and other bakery products.....	100.0	35.5	23.3	12.1	15.4	13.7				
Brick and tile.....	100.0	10.1	20.4	25.8	23.9	19.8				
Butter, cheese, and condensed milk.....	100.0	30.8	23.3	7.7	27.1	11.1				
Carriages and wagons and materials.....	100.0	5.8	16.4	19.4	22.5	35.9				
Cars and general shop construction and repairs by steam-railroad companies.....	100.0	(¹)	0.4	0.8	2.7	9.4	36.5	40.6	9.6	
Cars, steam-railroad, not including operations of railroad companies.....	100.0			2.1	2.3	5.3	11.0		79.3	
Chemicals.....	100.0	2.4	14.1	5.0	5.1	11.1	62.2			
Clothing, men's, including shirts.....	100.0	3.1	17.1	19.5	17.2	20.5	6.2	5.5	10.8	
Clothing, women's.....	100.0	1.5	5.5	11.7	15.9	30.2	17.6	5.7	12.0	
Coffee and spice, roasting and grinding.....	100.0	5.4	21.3	22.0	36.7	14.6				
Confectionery.....	100.0	4.4	12.2	18.3	25.9	39.2				
Copper, tin, and sheet-iron products.....	100.0	4.3	8.5	13.6	9.6	31.9	32.1			
Electrical machinery, apparatus, and supplies.....	100.0	1.0	4.2	5.5	10.3	30.3	24.1	10.0	14.6	
Flour-mill and gristmill products.....	100.0	45.7	25.0	16.5	7.0	5.8				
Foundry and machine-shop products.....	100.0	1.6	5.9	11.1	14.2	26.4	18.4	16.3	6.1	
Furniture and refrigerators.....	100.0	1.5	9.0	28.0	20.3	24.7	8.2	8.2		
Glass.....	100.0		0.5	1.6	5.4	26.2	22.2	33.9	10.2	
Hosiery and knit goods.....	100.0	0.8	0.9	7.3	21.3	49.2	20.5			
Iron and steel, blast furnaces.....	100.0	(¹)		1.5	8.7	43.2	30.1	16.4		
Iron and steel, steel works and rolling mills.....	100.0		0.2	0.4	1.4	7.4	17.6	31.5	41.6	
Leather, tanned, curried, and finished.....	100.0	1.4	2.8	19.4	11.6	24.0		40.8		
Liquors, distilled.....	100.0	0.8	15.0	16.0	21.4	46.8				
Liquors, malt.....	100.0	0.3	11.4	25.9	19.1	21.0	22.3			
Lumber and timber products.....	100.0	15.0	30.2	26.5	15.7	12.7				
Paint and varnish.....	100.0	8.4	14.1	14.8		62.7				
Paper and wood pulp.....	100.0		1.9	10.6	20.4	36.3	9.4	21.4		
Paper goods, not elsewhere specified.....	100.0	1.1	4.0	8.3	10.9	7.1	32.0	36.6		
Petroleum, refining.....	100.0		1.6	6.0	5.8	14.9	28.9	42.7		
Pottery, terra-cotta, and fire-clay products.....	100.0	0.2	1.3	11.5	18.7	43.3	13.9	11.1		
Printing and publishing.....	100.0	13.1	23.6	20.1	16.7	16.3	7.0	3.3		
Slaughtering and meat packing.....	100.0	6.6	13.0	15.4	31.1	4.0	11.2	18.7		
Soap.....	100.0	1.9	6.4	9.4	10.9	12.6	14.9	43.9		
Stoves and furnaces, including gas and oil stoves.....	100.0	0.9	3.6	8.0	18.6	25.5	10.6	15.8	17.0	
Tin plate and terneplate.....	100.0				11.5	88.5				
Tobacco manufactures.....	100.0	9.0	9.1	10.0	9.7	23.6	18.2	20.4		
Woolen, worsted, and felt goods, and wool hats.....	100.0	0.3	2.1	3.0	6.5	37.1			51.0	
All other industries.....	100.0	4.1	9.6	11.7	11.4	20.4	11.8	14.9	16.1	

¹ Less than one-tenth of 1 per cent.

Expenses.—As stated in the Introduction, the census does not purport to furnish figures that can be used for determining the cost of manufacture and profits. Facts of interest can, however, be brought out concerning the relative importance of the different classes of expenses which make up the total.

The table in the next column shows, for 1909, in percentages, the distribution of expenses among the classes indicated for all industries combined and for certain important industries separately. The figures on which the percentages are based appear in Table II, page 740.

The table shows that, for all industries combined, 64.2 per cent of the total expenses were incurred for materials, 24.7 per cent for services—that is, salaries and wages—and only 11 per cent for other purposes. As would be expected, these proportions vary greatly in the different industries. The large proportions shown for miscellaneous expenses for the manufacture of distilled and malt liquors and tobacco products are due to the inclusion of internal-revenue taxes. The highest percentage shown for materials, 92.7, is for flour mills and gristmills and the lowest percentage shown for salaries and wages, 2.8, is for distilleries, proportions which are due to the comparative simplicity of the manufacturing operations in each class of establishments. Other industries with a high percentage of expense for materials are: Tin plate and terneplate, slaughtering and meat packing, blast furnaces, and butter, cheese, and condensed milk.

INDUSTRY.	PER CENT OF TOTAL EXPENSES REPORTED.			
	Salaries.	Wages.	Materials.	Miscellaneous expenses.
All industries	5.6	19.1	64.2	11.0
Agricultural implements.....	9.3	25.6	51.2	13.9
Automobiles, including bodies and parts.....	4.4	24.1	57.5	14.0
Boots and shoes, including cut stock and findings.....	7.2	22.5	63.9	6.3
Brass and bronze products.....	7.2	23.7	61.1	8.0
Bread and other bakery products.....	5.5	17.0	68.8	8.7
Brick and tile.....	7.9	47.5	29.7	14.8
Butter, cheese, and condensed milk.....	1.9	6.2	86.0	5.9
Carriages and wagons and materials.....	6.6	24.1	59.1	10.2
Cars and general shop construction and repairs by steam-railroad companies.....	4.5	44.3	49.7	1.4
Cars, steam-railroad, not including operations of railroad companies.....	8.4	20.1	64.6	6.9
Chemicals.....	5.2	11.9	75.8	7.1
Clothing, men's, including shirts.....	7.5	18.1	57.6	16.8
Clothing, women's.....	9.2	23.7	57.1	10.0
Coffee and spice, roasting and grinding.....	7.8	3.4	79.9	8.9
Confectionery.....	7.3	13.8	67.1	11.8
Copper, tin, and sheet-iron products.....	5.6	18.5	68.1	7.7
Electrical machinery, apparatus, and supplies.....	9.9	24.8	46.6	18.7
Flour-mill and gristmill products.....	1.5	3.2	92.7	2.6
Foundry and machine-shop products.....	9.2	29.4	49.9	11.5
Furniture and refrigerators.....	7.4	29.0	50.7	13.0
Glass.....	5.6	46.9	36.8	10.8
Hosiery and knit goods.....	6.8	18.6	66.8	7.8
Iron and steel, blast furnaces.....	1.8	6.6	88.5	3.1
Iron and steel, steel works and rolling mills.....	2.3	16.1	78.2	3.5
Leather, tanned, curried, and finished.....	2.1	11.5	82.1	4.2
Liquors, distilled.....	0.8	2.0	21.8	75.4
Liquors, malt.....	8.0	15.6	31.2	45.2
Lumber and timber products.....	4.8	22.1	65.8	7.3
Paint and varnish.....	11.0	7.2	68.7	13.1
Paper and wood pulp.....	3.8	15.6	70.2	10.3
Paper goods, not elsewhere specified.....	5.7	16.1	62.7	15.5
Petroleum, refining.....	4.1	10.2	81.1	4.6
Pottery, terra-cotta, and fire-clay products.....	7.7	45.8	34.3	12.2
Printing and publishing.....	15.8	27.1	34.4	22.7
Slaughtering and meat packing.....	1.4	3.9	92.1	2.7
Soap.....	4.1	5.9	83.0	7.0
Stoves and furnaces, including gas and oil stoves.....	8.8	30.9	46.2	14.0
Tin plate and terneplate.....	1.0	5.8	92.5	0.7
Tobacco manufactures.....	3.8	17.6	47.2	31.3
Woolen, worsted, and felt goods, and wool hats.....	3.0	13.7	68.2	15.1
All other industries.....	6.6	19.1	60.4	13.9

Engines and power.—The following table shows, for all industries combined, the number of engines or other motors, according to their character, employed in generating power (including electric motors operated by purchased current), and their total horsepower at the censuses of 1909, 1904, and 1899. It also shows separately the number and horsepower of electric motors, including those operated by current generated in the manufacturing establishments.

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.			PER CENT DISTRIBUTION OF HORSEPOWER.		
	1909	1904	1899 ¹	1909	1904	1899 ¹	1909	1904	1899
Primary power, total	25,970	11,598	11,548	1,583,155	1,116,932	783,665	100.0	100.0	100.0
Owned.....	13,012	11,598	11,548	1,483,628	1,088,030	767,051	93.7	97.4	97.9
Steam.....	9,246	9,063	9,789	1,362,134	1,028,665	732,006	86.0	92.1	93.4
Gas.....	3,354	2,004	1,203	103,801	35,101	14,230	6.6	3.1	1.8
Water wheels.....	373	449	550	15,777	17,781	17,848	1.0	1.6	2.3
Water motors.....	39	82	(²)	330	368	(²)	(²)	(²)	(²)
Other.....				1,580	6,115	2,967	0.1	0.5	0.4
Rented.....	12,958	(²)	(²)	99,527	28,902	16,614	6.3	2.6	2.1
Electric.....	12,958	(²)	(²)	93,592	23,159	8,768	5.9	2.1	1.1
Other.....				5,935	5,743	7,846	0.4	0.5	1.0
Electric motors	34,237	8,668	1,721	417,844	144,467	42,157	100.0	100.0	100.0
Run by current generated by establishment.....	21,279	8,668	1,721	324,252	121,308	33,389	77.6	84.0	79.2
Run by rented power.....	12,958	(²)	(²)	93,592	23,159	8,768	22.4	16.0	20.8

¹ Includes the neighborhood industries and hand trades, omitted in 1904 and 1909.
² Not reported. ³ Less than one-tenth of 1 per cent.

The amount of primary power used in the manufacturing industries of Ohio increased 333,267 horsepower, or 42.5 per cent, from 1899 to 1904, and 466,223 horsepower, or 41.7 per cent, from 1904 to 1909. The greater part of the increase was in owned steam and rented electric power. In 1909, as in 1904 and 1899, steam power formed the major part of the total power reported, but notwithstanding increases during the two five-year periods of 296,659 horsepower and 333,469 horsepower, respectively, the proportion which this kind of power formed of the total primary power decreased from 93.4 per cent in 1899 to 92.1 per cent in 1904, and to 86 per cent in 1909.

The more general use of gas engines in recent years is shown, there being 3,354 of such engines with an indicated capacity of 103,801 horsepower reported in 1909, as against 2,004 engines with 35,101 horsepower in 1904, and 1,203 engines with 14,230 horsepower in 1899. The figures also show that the practice of renting electric power is increasing rapidly, 93,592 horsepower, or 5.9 per cent of the total power, being of this character in 1909, as compared with 23,159 horsepower, or 2.1 per cent, in 1904, and 8,768 horsepower,

or 1.1 per cent, in 1899. The use of electric motors for the purpose of applying the power generated in the establishments is rapidly becoming more common, the horsepower of such motors increasing from 33,389 in 1899 to 121,308 in 1904 and 324,252 in 1909.

Fuel.—Closely related to the question of kind of power employed is that of the fuel consumed in generating this power, or otherwise used as material in the manufacturing processes. The following table shows the quantity of each kind of fuel used in 1909 for all industries combined and for certain selected industries:

INDUSTRY.	An-thra-cite coal (tons).	Bituminous coal (tons).	Coke (tons).	Wood (cords)	Oil, including gasoline (barrels).	Gas (1,000 feet).
All industries	80,860	11,760,403	6,745,934	108,775	421,401	103,382,125
Agricultural implements.....		44,510	8,967	13	11,896	240,768
Automobiles, including bodies and parts.....	1,057	61,588	1,591	212	16,653	151,524
Boots and shoes, including cut stock and findings.....	844	31,722			31	68,168
Brass and bronze products.....		21,888	6,605	23	5,411	22,877
Bread and other bakery products.....	5,913	27,411	15,893	14,371	270	692,323
Brick and tile.....	2,957	953,209	1,557	43,685	1,068	1,780,136
Butter, cheese, and condensed milk.....	222	31,305	23	2,370	19	43,347
Carriages and wagons and materials.....	204	81,415	5,986	101	4,833	63,790
Cars and general shop construction and repairs by steam-railroad companies.....	187	379,198	2,012	7,414	23,014	227,694
Cars, steam-railroad, not including operations of railroad companies.....	36	18,430	2,383		6,000	31,877
Chemicals.....		160,558	23,231	360	403	876,615
Clothing, men's, including shirts.....	35	5,470	88		808	71,453
Clothing, women's.....	889	1,983	11		28	44,195
Coffee and spice, roasting and grinding.....	1,111	6,801	876		1	22,232
Confectionery.....	12	10,315	408		32	45,150
Copper, tin, and sheet-iron products.....	1,731	70,844	2,895	9	1,104	318,942
Electrical machinery, apparatus, and supplies.....	1,063	65,015	2,443		6,452	615,288
Flour-mill and gristmill products.....	388	169,236		2,776	1,090	770,857
Foundry and machine-shop products.....	18,730	690,612	193,398	4,458	60,917	1,533,226
Furniture and refrigerators.....	41	68,481	489	700	193	33,434
Glass.....	89	210,815	1,397	5	4,498	12,728,097
Hosiery and knit goods.....	4	11,522				5,849
Iron and steel, blast furnaces and rolling mills.....	105	3,460,695	136,964	10,030	73,275	64,620,688
Leather, tanned, curried, and finished.....		45,516	133		11	34
Liquors, distilled.....	18	53,837		130		744
Liquors, malt.....	1,070	320,569	1,202		310	693,380
Lumber and timber products.....	721	80,623	225	1,227	488	102,075
Paint and varnish.....	1	29,040	6,523	64	24	32,702
Paper and wood pulp.....		492,136				4,581,706
Paper goods, not elsewhere specified.....	5	15,427				6,886
Petroleum, refining.....		248,089			32,507	519,690
Pottery, terra-cotta, and fire-clay products.....	1,286	781,527		388	2,670	7,369,525
Printing and publishing.....	562	40,242	26	96	1,118	225,115
Slaughtering and meat packing.....		87,452	4	1,424	524	118,502
Soap.....	426	115,220	1,145			35,887
Stoves and furnaces, including gas and oil stoves.....	27	41,590	16,730	341	35	216,443
Tin plate and terneplate.....		14,685				99,862
Tobacco manufactures.....	47	12,152	136	46	5	37,152
Woolen, worsted, and felt goods, and wool hats.....		25,634	6,044			9,212
All other industries.....	41,079	2,495,690	123,296	18,011	165,442	4,324,578

NOTE.—In addition, there were 2,681 tons of other varieties of fuel reported.

SUPPLEMENTARY DATA REGARDING IMPORTANT INDUSTRIES.

(With statistics for laundries and custom sawmills and gristmills.)

For certain industries the Census Bureau collects, by means of special schedules, details regarding the quantity and value of materials and products and other information for securing which no provision is made on the general schedule. Certain data of this character for 21 important industries in Ohio are here presented.

Iron and steel.—Under this heading are presented the statistics of blast furnaces and of steel works and rolling mills. Ohio owes its high position in this industry to its location midway between the largest iron-ore and coking-coal deposits in the country, to a plentiful supply of natural gas and oil, and to most excellent transportation facilities. The

census of 1909 shows that it has maintained its position as the second state in the United States in the iron and steel industry, Pennsylvania alone having a greater production. The value of the products of the steel works and rolling mills was greater than the value of products of any other industry and represented 13.8 per cent of the total for the state. Blast furnaces ranked third in value of products, with 5.8 per cent of the total for the state.

Steel works and rolling mills.—The following statement shows for 1909, 1904, and 1899 the quantity and cost of the principal materials used by steel works and rolling mills, the quantity and value of the leading products, and the main features of the equipment.

MATERIAL, PRODUCT, OR EQUIPMENT.	1909	1904	1899	MATERIAL, PRODUCT, OR EQUIPMENT.	1909	1904	1899
Materials used, total cost.....	\$139,243,155	\$78,209,770	\$67,785,834	Products—Continued.			
Iron and steel:¹				Rolled, forged, and other classified products, steel and iron—Continued.			
For furnaces and hot rolls—				Muck and scrap bar, produced for sale or for transfer to other works of the same company—			
Pig iron and ferroalloys—				Tons.....	15,875	32,464	21,261
Tons.....	4,209,149	2,393,614	2,031,664	Value.....	\$415,651	\$1,008,781	\$594,268
Cost.....	\$64,441,978	\$33,040,901	\$32,833,698	Ingots for sale or for transfer to other works of the same company—			
Pig iron—		(²)	(²)	Tons.....	32,223	2,661	.....
Tons.....	4,172,114	(²)	(²)	Value.....	\$613,540	\$64,836	.....
Cost.....	\$62,747,851	(²)	(²)	Direct castings—			
Ferroalloys — spiegeleisen, ferromanganese, etc.—		(²)	(²)	Tons.....	93,926	35,156	18,402
Tons.....	37,035	(²)	(²)	Value.....	\$6,343,186	\$2,308,178	\$1,428,738
Cost.....	\$1,694,127	(²)	(²)	All other rolled and forged steel and iron, not including remanufactures of rolling-mill products:			
Scrap, including old rails not intended for rerolling—				Tons.....	719,581	610,503	468,645
Tons.....	530,408	635,967	463,335	Value.....	\$21,719,984	\$18,420,294	\$17,506,555
Cost.....	\$8,093,044	\$8,067,895	\$8,635,371	All other products, including value added to steel or iron rolling-mill product by further manufacture.....	\$25,674,796	\$10,763,634	\$8,202,070
Ingots, blooms, billets, slabs, muck and scrap bar, rerolling rails, and sheet and tin-plate bars—				Steel production, tons.			
Tons.....	1,858,171	1,059,744	709,709	Total.....	4,705,337	2,529,997	1,812,829
Cost.....	\$40,358,367	\$23,607,315	\$17,973,277	Bessemer.....	3,337,895	2,040,153	1,697,353
Rolled forms for further manufacture—				Open-hearth.....	1,366,672	480,844	114,926
Skelp—			(²)	Basic.....	1,306,694	425,007	62,394
Tons.....	57,144	10,192	(²)	Acid.....	59,878	55,837	52,532
Cost.....	\$1,730,190	\$315,343	(²)	Crucible.....	770	.....	550
Wire rods—				Equipment:			
Tons.....	97,539	92,246	52,647	Steel plants: Daily capacity of steel furnaces and converters, tons of steel, double turn.....	21,084	13,752	8,792
Cost.....	\$2,708,015	\$2,563,171	\$1,925,146	Open-hearth furnaces—			
Iron ore:				Number.....	66	42	27
Tons.....	75,857	48,239	26,434	Daily capacity, tons of steel, double turn.....	6,329	2,922	1,218
Cost.....	\$384,303	\$211,533	\$93,610	Basic—			
Fuel and rent of power.....	\$7,672,641	\$4,990,891	\$6,324,732	Number.....	58	33	14
All other materials.....	\$13,854,617	\$5,412,721	.....	Daily capacity, tons of steel, double turn.....	5,945	2,384	740
Products, total value.....	\$197,780,043	\$111,996,673	\$98,568,619	Acid—			
Rolled, forged, and other classified products, steel and iron:				Number.....	8	9	13
Tons.....	5,898,690	3,533,426	2,737,497	Daily capacity, tons of steel, double turn.....	384	538	478
Value.....	\$172,105,247	\$101,233,039	\$90,366,549	Converters, Bessemer, or modified Bessemer—			
Bars and rods, not including wire rods, sheet and tin-plate bars, splice bars, and bars for reinforced concrete—				Number.....	17	12	12
Tons.....	704,168	274,191	472,159	Daily capacity, tons of steel, double turn.....	14,740	10,830	7,573
Value.....	\$21,168,583	\$8,072,928	\$17,787,412	Crucible and miscellaneous steel furnaces—			
Bars for reinforced concrete—				Number.....	12	.....	6
Tons.....	70,978	.....	.....	Number of pots that can be used at a heat.....	96	.....	12
Value.....	\$2,063,084	.....	.....	Daily capacity, tons of steel, double turn.....	15	.....	1
Plates and sheets, not including black plates or sheets for tinning, nail and tack plates, tin-plates, fishplates, or armor plates—				Metal mixers—		(⁴)	(⁶)
Tons.....	755,010	460,131	308,092	Number.....	13	(⁴)	(⁶)
Value.....	\$33,800,603	\$20,700,386	\$16,110,691	Capacity, tons.....	3,350	(⁴)	(⁶)
Black plates or sheets for tinning—				Rolling mills: Daily capacity of rolled steel and iron, double turn, tons.....	27,922	19,901	12,374
Tons.....	111,156	.....	.....		
Value.....	\$5,868,639	.....	.....		
Skelp—							
Tons.....	739,761	4314,447	4128,188				
Value.....	\$22,198,365	\$9,707,170	\$4,452,276				
Blooms, billets, and slabs, produced for sale or for transfer to other works of the same company—							
Tons.....	1,975,730	.....	.....		
Value.....	\$42,301,868	.....	.....		
Sheet and tin-plate bars, produced for sale or for transfer to other works of the same company—							
Tons.....	679,682	1,803,873	1,320,750				
Value.....	\$15,611,744	\$40,350,466	\$32,480,609				

¹ Includes material purchased or transferred to the establishment reporting from other works of the same company. ² Not reported separately.
³ In addition, steel castings or rolled steel to the value of \$706,241 were produced by establishments engaged primarily in the manufacture of products other than those covered by the industry designation. ⁴ Includes hoops, bands, and cotton ties.
⁵ In addition, 8,532 tons of steel castings were produced by establishments engaged primarily in the manufacture of products other than those covered by the industry designation. ⁶ Not reported.

Establishments which are classified as steel works and rolling mills make three classes of products: (1) Those which must be subjected to further rolling before they can be regarded as finished rolling-mill products; (2) those which have passed through all the contemplated rolling processes and may be termed finished rolling-mill products; and (3) those which have been subjected to processes beyond the rolling-mill stage. In the preceding table products of the last class, namely, those which have been subjected to processes beyond the rolling-mill stage, are not shown separately, but those finished rolling-mill products that were made in the establishment and were there converted into these higher forms have been included with the other finished products of the industry, and the enhanced value which they have secured through their manufacture beyond the rolling-mill product stage has been reported under the head of "Value of all other products."

The existence of the other two classes of products in the industry, namely, the finished products and the unfinished products, results in a certain amount of duplication in the figures for cost of materials and value of products. When ore and other materials were worked up into ingots or other similar products in one rolling mill and were then used in a second, where they were made into finished rolling-mill products, they appear twice in the cost of materials and twice in the value of products. This duplication does not exist where an establishment makes the ingots or other similar products and then rolls them into finished rolling-mill products. In this connection it should be noted that two branches of the same company frequently constitute different establishments, according to the practice of the census, and hence duplication results when the products of one branch are used as the materials of the other.

In considering the comparative figures presented in the table it should be borne in mind that 1904 was a year of partial depression in the iron and steel industry, and that neither the small increases shown in quantity and value for 1904 as compared with 1899 nor the large increases shown for 1909 as compared with 1904 are representative of the normal rate of growth for the industry.

The table is chiefly interesting as an indication of the enormous growth of the steel works and rolling mills during the 10-year period 1899-1909. The materials used increased in cost from a little less than \$68,000,000 to over \$139,000,000 and the value of products from a little over \$98,000,000 to almost \$198,000,000. The daily capacity of the steel furnaces and converters working on double turn increased from 8,792 tons to 21,084 tons, and the daily capacity of rolling mills working on double turn increased from 12,374 tons to 27,922 tons.

Blast furnaces.—The quantity and cost of materials used in blast furnaces, the production of pig iron according to grades and fuel used, and the equipment

of the plants are shown in the following statement for 1909, 1904, and 1899. The year 1904, as stated above, was one of partial depression in the iron and steel industry, and hence comparisons between the censuses of 1899 and 1904 and between the censuses of 1904 and 1909 do not give a true idea of the development of the industry during these five-year periods.

MATERIAL, PRODUCT, OR EQUIPMENT.	1909	1904	1899
Materials used, total cost.....	\$68,424,722	\$32,476,727	\$23,543,473
Iron ore:			
Tons.....	9,884,358	5,266,473	4,304,263
Cost.....	\$41,830,645	\$18,881,573	\$12,204,486
Mill cinder, scrap, etc.:			
Tons.....	368,931	328,841	192,203
Cost.....	\$1,041,384	\$604,526	\$463,347
Fluxes:			
Tons.....	2,693,423	1,464,057	1,252,632
Cost.....	\$2,597,107	\$1,348,409	\$1,003,919
Coke:			
Tons (2,000 pounds).....	6,050,491	3,432,965	2,917,388
Cost.....	\$20,433,686	\$10,548,220	\$6,860,925
All other materials.....	\$2,521,900	\$1,093,909	\$3,001,796
Products, total value.....	\$83,699,238	\$40,862,451	\$40,366,637
Pig iron:			
Tons.....	5,446,971	2,987,777	2,559,694
Value.....	\$82,048,712	\$40,705,777	\$40,308,758
All other products.....	\$1,650,526	\$156,674	\$57,879
Pig iron, classified according to fuel used:			
Coke—			
Tons.....	5,376,398	2,987,149	2,552,643
Value.....	\$80,813,570	\$40,689,717	\$40,155,408
All other (raw coal and coke and charcoal)—			
Tons.....	70,573	638	7,051
Value.....	\$1,235,142	\$16,060	\$153,350
Pig iron, classified according to disposition:			
Produced for consumption in works of company reporting—			
Tons.....	3,56,358	1,751,730	(1)
Value.....	\$53,108,589	\$23,624,236	(1)
Produced for sale—			
Tons.....	1,882,613	1,236,057	(1)
Value.....	\$28,940,123	\$17,081,541	(1)
Pig iron, classified according to grades (tons):			
Bessemer.....	* 3,456,131	2,120,643	1,862,136
Basic.....	798,173	206,458	93,700
Foundry.....	714,322	441,227	305,004
Forge or mill.....	66,805	66,729	246,487
Malleable Bessemer.....	364,067	127,330	(1)
White, mottled, miscellaneous, and direct castings.....	6,121	8,906	33,347
Ferrosilicon.....	47,352	16,494	19,020
Pig iron, classified according to method of delivery or castings (tons):			
Delivered in molten condition.....	2,723,700	1,105,159	(1)
Sand cast.....	1,625,073	1,361,161	(1)
Machine cast.....	945,036	516,338	(1)
Chill cast and direct castings.....	153,162	5,129	(1)
Equipment:			
Furnaces in active establishments:			
Completed stacks at end of year—			
Number.....	67	53	51
Daily capacity, tons.....	21,017	15,887	10,468
Active during the year—			
Number.....	65	53	50
Daily capacity, tons.....	20,677	15,887	(*)
In course of construction at end of year—			
Number.....	1	1	4
Daily capacity, tons.....	325	75	2,200
Pig casting machines, number.....	20	(1)	(1)
Granulated slag pits:			
Number.....	25	14	(1)
Annual capacity, tons.....	1,149,000	(*)	(1)
Gas engines operated with blast-furnace gas:			
Number.....	10	(1)	(1)
Horsepower.....	20,140	(1)	(1)

* Not reported. * Includes 9,111 tons of low phosphorus. * Figures not available.

The total cost of materials increased from \$23,543,473 in 1899 to \$68,424,722 in 1909, a gain of 190.6 per cent. The quantity of ore, fluxes, and coke consumed in 1909 was more than double that used in 1899, and mill cinder, scrap, etc., gained 92 per cent, but none of these materials increased in quantity in as great a proportion as they increased in cost.

The total value of the products of blast furnaces was over \$83,000,000 in 1909, as compared with slightly over \$40,000,000 in 1899. The pig-iron product in

1909 consisted of 5,446,971 tons, valued at \$82,048,712, which figures represent an increase since 1899 of 112.8 per cent in quantity and of 103.6 per cent in value. Practically all the pig iron was made with coke, the mixed fuels and charcoal being used for an almost negligible quantity. Nearly two-thirds of the pig iron made in 1909 was for consumption in the works of the company reporting it, and 50 per cent of the entire product was delivered in a molten condition to the steel plants. Sixty-three and five-tenths per cent of the entire output for 1909 was Bessemer pig iron and 14.7 per cent basic, compared with 72.7 per cent Bessemer and 3.7 per cent basic in 1899.

The total number of furnaces in active establishments increased from 51 in 1899 to 67 in 1909, and their daily capacity from 10,468 to 21,017 tons. Pig casting machines were not reported until 1909, when there were 20. Internal-combustion engines to the number of 10, with a total horsepower of 20,140, were first reported in 1909 and mark a great advance in industrial economy in the utilization of what was formerly waste blast-furnace gas.

Tin plate and terneplate.—This industry is allied closely to iron and steel production, since the manufacture of the black plates used in it is a rolling-mill operation. The special statistics of the industry are given in the following table, which shows the kind, quantity, and cost of materials used, and the quantity and value of products for 1909. No comparative figures can be presented without disclosing individual operations.

MATERIAL OR PRODUCT.	1909
Materials used, total cost.	\$7,155,144
Black plates or sheets:	
Pounds.....	213,764,915
Cost.....	\$5,143,579
Coating metals:	
Pounds.....	\$,064,988
Cost.....	\$1,587,798
<i>In condition purchased:</i>	
Pig tin—	
Pounds.....	3,872,221
Cost.....	\$1,142,704
Pig lead—	
Pounds.....	249,000
Cost.....	\$10,612
Terne mixture—	
Pounds.....	3,943,767
Cost.....	\$434,482
All other materials.....	\$423,767
Products, total value.	\$7,889,367
Tin plate and terneplate:	
Pounds.....	212,737,039
Value.....	\$7,669,423
All other products.....	\$219,944

In 1909 Ohio ranked third among the states of the United States in this industry, reporting 16.4 per cent of the total value of products for the country as a whole.

Slaughtering and meat packing.—The following tabular statement shows, for the slaughtering and meat-packing industry, the kind, quantity, and cost of the principal materials used and the quantity and value of the leading products with the exception of sausage, for which the value only is available.

MATERIAL OR PRODUCT.	1909	1904	1899
Materials used, total cost.	\$44,347,162	\$25,310,709	\$18,007,351
Beeves slaughtered:			
Number.....	265,191	189,613	98,636
Cost.....	\$11,613,314	\$6,490,507	\$3,629,833
Calves slaughtered:			
Number.....	150,223	86,906	31,971*
Cost.....	\$1,599,585	\$665,385	\$247,280
Sheep slaughtered:			
Number.....	229,985	148,418	70,739
Cost.....	\$872,989	\$502,029	\$224,559
Hogs slaughtered:			
Number.....	1,725,285	1,447,778	1,283,597
Cost.....	\$24,547,970	\$14,954,587	\$11,189,787
Dressed meat, purchased.....	\$2,415,657	\$1,497,516	\$1,143,022
Fuel and rent of power.....	\$224,429	\$125,775	\$89,362
All other materials.....	\$3,073,218	\$1,074,910	\$1,483,568
Products, total value.	\$50,804,100	\$29,154,718	\$20,767,657
Beef, fresh:			
Pounds.....	119,597,666	89,925,370	43,652,450
Value.....	\$10,047,217	\$5,967,126	\$3,116,193
Beef, salted or cured:			
Pounds.....	4,450,976	2,434,645	4,692,000
Value.....	\$328,334	\$175,972	\$240,740
Veal:			
Pounds.....	12,921,896	6,680,682	2,464,318
Value.....	\$1,498,687	\$610,683	\$234,817
Mutton:			
Pounds.....	7,738,777	5,406,034	2,277,155
Value.....	\$763,364	\$472,931	\$212,592
Pork, fresh:			
Pounds.....	60,320,259	49,033,932	46,226,099
Value.....	\$6,950,354	\$4,514,599	\$3,354,714
Pork, salted or cured:			
Pounds.....	121,988,353	116,433,401	114,350,050
Value.....	\$16,202,666	\$10,182,724	\$9,301,993
Sausage, fresh or cured.....	\$3,346,493	\$1,711,463	\$1,133,417
All other fresh meat:			
Pounds.....	6,728,033	4,155,474	242,080
Value.....	\$493,467	\$241,956	\$21,408
Lard:			
Pounds.....	58,518,712	49,180,666	32,398,829
Value.....	\$6,566,768	\$3,427,690	\$2,105,391
Tallow, oleo stock, and stearin:			
Pounds.....	11,088,893	(¹)	(¹)
Value.....	\$640,001	(¹)	(¹)
Fertilizers and fertilizer materials:			
Tons.....	9,103	7,517	4,006
Value.....	\$166,354	\$104,092	\$58,646
Hides:			
Number.....	410,573	254,572	130,595
Pounds.....	16,900,033	11,638,587	5,728,737
Value.....	\$1,970,069	\$1,037,295	\$514,759
Pelts:			
Number.....	232,775	148,118	(¹)
Value.....	\$194,720	\$101,427	(¹)
Amount received for custom or contract work.....	\$16,434	\$11,780	\$1,500
All other products.....	\$1,619,122	\$594,780	\$471,487

¹ Figures not available.

The total cost of the materials used in the slaughtering and meat-packing industry in 1909 was \$44,347,162, of which \$38,633,858 represented the cost of animals slaughtered, \$2,415,657 the cost of dressed meat purchased, \$224,429 the expenditures for fuel and rent of power, and \$3,073,218 the cost of all other materials. The cost of the dressed meat purchased may be to some extent a duplication, because the animals purchased by an establishment for slaughtering may be sold to a second establishment in the form of dressed meat for packing, and hence may enter twice into the cost of materials of the industry and twice into its value of products. If this element of duplication is ignored, it appears that the cost of animals slaughtered and dressed meat purchased formed 92.6 per cent of the total cost of materials.

Comparisons with the figures for earlier censuses show that for all classes of materials there was a substantial increase between 1899 and 1909. "All other materials" decreased in value between 1899 and 1904, but since the later year their cost has almost trebled.

The total value of products of the industry was \$50,804,100. Salted or cured pork was the principal

product, having a value of over \$16,000,000, as compared with about \$10,000,000 for fresh beef. Hides were the most important by-product, having a value of almost \$2,000,000.

All products except salted or cured beef, so far as figures are available, show a substantial gain between 1899 and 1909 in both quantity and value, and salted or cured beef shows a considerable increase in value, although the quantity decreased.

A comparison of the figures for 1909 with those for 1904 shows increases for all commodities; in general, the values have increased more rapidly than the quantities, thus reflecting the increase in prices that has been taking place in recent years.

Flour-mill and gristmill products.—Ohio was fifth in 1909 among the states in the manufacture of flour-mill and gristmill products, reporting 5.4 per cent of the total value for the country. It also ranked fifth in the value of wheat flour produced and in the quantity of corn and buckwheat ground. Among the industries of the state itself the industry was sixth and contributed 3.4 per cent of the total value reported for all manufactured products. The tabular statement following gives the quantity and value of products for 1909, 1904, and 1899:

PRODUCT.	1909	1904	1899
Total value	\$48,093,353	\$40,855,566	\$35,077,553
Wheat flour:			
White—			
Barrels.....	5,713,058	5,606,488	
Value.....	\$30,459,760	\$27,764,108	7,113,343
Graham.....			\$25,140,728
Barrels.....	10,478	21,721	
Value.....	\$48,349	\$92,495	
Corn meal and corn flour:			
Barrels.....	865,250	1,006,703	1,201,970
Value.....	\$2,528,843	\$2,432,026	\$2,259,483
Rye flour:			
Barrels.....	33,215	43,691	30,133
Value.....	\$146,786	\$181,105	\$114,288
Buckwheat flour:			
Pounds.....	7,436,813	3,599,618	3,405,955
Value.....	\$180,267	\$93,967	\$81,575
Hominy and grits:			
Pounds.....	80,855,375	69,360,258	5,449,650
Value.....	\$1,247,605	\$999,171	\$54,513
Feed:			
Tons.....	269,532	203,278	306,943
Value.....	\$7,263,751	\$4,151,864	\$4,552,016
Offal:			
Tons.....	232,709	266,726	195,489
Value.....	\$5,142,619	\$4,821,108	\$2,383,732
All other products.....	\$1,075,373	\$619,722	\$491,218

White flour was the principal product reported, contributing 63.3 per cent of the total value of products in 1909, 68 per cent in 1904, and 71.7 per cent in 1899. The next in value was feed, with 15.1 per cent of the total in 1909, compared with 10.2 per cent in 1904 and 13 per cent in 1899. Hominy and grits contributed 2.6 per cent of the total in 1909, 1.7 per cent in 1904, and about two-tenths of 1 per cent in 1899. The decrease of 14.1 per cent from 1904 to 1909 in the quantity of corn products was counterbalanced by the greater production of feed, which was derived largely from corn. The value of all products in 1909 was higher per unit of quantity than in 1904 or 1899, except in the case of buckwheat flour, where the value per unit has remained practically the same. Less offal was

reported in 1909 than in 1904, but the total value was greater.

Of the 593 establishments grinding wheat in 1909, 10 reported over 100,000 barrels of wheat flour for the census year; 33 reported between 20,000 and 100,000 barrels; 188, from 5,000 to 20,000; 297, from 1,000 to 5,000; and 65, less than 1,000 barrels. The number of pairs of rolls reported was 5,643, and the number of runs of stone and steel burrs 453.

Printing and publishing.—Among the states Ohio ranked fifth in the value of the products of printing and publishing establishments. The industry ranked seventh among those in the state in 1909, and it showed an increase in value of products of 33 per cent over 1904 and of 31.4 per cent over 1899. The following statement gives the number and circulation of the principal kinds of newspapers and periodicals for the last three censuses:

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1909	1904	1899	1909	1904	1899
Total	1,181	1,250	1,069	10,753,143	9,321,545	7,467,358
Daily.....	184	190	170	1,542,855	1,357,135	1,224,715
Sunday.....	25	23	30	645,869	544,416	(¹)
Semiweekly and tri-weekly.....	60	53	61	131,806	113,749	224,461
Weekly.....	699	781	692	2,913,730	2,747,511	2,411,172
Monthly.....	152	143	90	2,685,470	2,006,287	1,420,501
Quarterly.....	37	40	15	2,288,134	2,169,200	1,795,609
All other classes.....	24	20	11	545,279	383,247	390,900

¹ Included in circulation of dailies.

In the number of publications there was a net decrease of 69 from 1904 to 1909. The daily newspapers decreased by 6, the weekly newspapers and weekly periodicals by 82, and the quarterlies by 3, but there was an increase of 2 in the Sunday newspapers, of 7 in the semiweeklies and triweeklies, of 9 in the monthly publications, and of 4 in "All other classes." The reduction was wholly among publications in English, which decreased 90; the foreign and the foreign and English increased by 21.

In circulation of all publications the increase for the 10-year period 1899-1909 was 44 per cent, and for the 5-year period 1904-1909, 15.4 per cent. Of the different specified publications, the greatest percentage of gain both for the decade and for the 5-year period 1904-1909 was in the circulation of monthlies. These increased 89.1 per cent from 1899 to 1909 and 33.9 per cent from 1904 to 1909. Quarterlies increased their circulation 27.4 per cent during the decade and 5.5 per cent during the 5-year period 1904-1909. Daily newspapers increased their circulation 26 per cent in the decade and 13.7 per cent from 1904 to 1909.

The circulation of weekly newspapers decreased from 1904 to 1909, but the circulation of weekly periodicals increased materially. As these two are combined, a net increase is shown of 20.8 per cent for the decade 1899-1909 and of 6 per cent for the five-year period 1904-1909.

The circulation of Sunday newspapers from 1904 to 1909 increased 18.6 per cent. The circulation of semiweeklies and triweeklies combined decreased 41.3 per cent during the 10 years, but increased 15.9 per cent during the later five-year period, 1904-1909.

The following statement gives the circulation for 1909 of the newspapers and periodicals published in English and of those published in foreign languages, including those published in both foreign languages and English:

PERIOD OF ISSUE.	TOTAL.		IN ENGLISH.		IN FOREIGN LANGUAGES. ¹	
	Num-ber.	Aggregate circulation per issue.	Num-ber.	Aggregate circulation per issue.	Num-ber.	Aggregate circulation per issue.
Total	1,181	10,753,143	1,052	9,919,063	129	834,080
Daily.....	184	1,542,355	173	1,453,190	11	89,665
Sunday.....	25	645,869	18	588,729	7	57,140
Semiweekly and tri-weekly.....	60	131,806	52	111,438	8	20,368
Weekly.....	699	2,913,730	630	2,543,916	69	369,814
Monthly.....	152	2,685,470	133	2,550,482	19	134,988
Quarterly.....	37	2,288,134	29	2,151,180	8	136,954
All other classes.....	24	545,279	17	320,128	7	25,151

¹ Includes those printed in English and a foreign language.

Of the aggregate circulation, 92.2 per cent was that of newspapers and periodicals published in English. This percentage is slightly smaller than that for 1904, when the circulation of publications in English formed 93.4 per cent of the total. The increase of publications in foreign languages, including those in foreign and English, was, however, slight. The circulation of German publications in 1909 constituted 67.5 per cent of the total circulation in foreign languages.

Automobiles, including bodies and parts.—Ohio ranked second among the states in the manufacture of automobiles, including bodies and parts, both in 1909 and 1904. The industry ranked eighth among the industries of the state, with a total value of products of \$38,838,754. This represents an increase of \$32,480,590, or 510.9 per cent, in value of products.

The number and value of the automobiles manufactured, classified by type and by power, are shown for 1904 and 1909 in the next table. No figures are available for 1899, for in that year the industry was included with that of carriages and wagons.

The total number of automobiles manufactured in Ohio in 1909 was 14,299, and they were valued at \$23,550,112. The number was 409.2 per cent greater than in 1904 and the value 353.1 per cent greater. In 1904 practically all machines reported were classed as passenger or pleasure vehicles, but in 1909 the commercial or business type of car was made in such numbers as to form 4.7 per cent of the total number, and ambulances, omnibuses, and similar cars formed 6.3 per cent.

In 1909 Ohio was first among the states in the number and value of electric machines, and in the number and value of steam machines, manufacturing 42.9 per cent and 72.1 per cent, respectively, of the

total number reported for the country. As all the steam cars were made by one establishment, they are included under "Electric and steam," to avoid the disclosure of the operations of an individual establishment. The item of "All other products," which includes the manufacture of additional parts, supplies, and other items not called for separately on the schedule, shows an enormous increase—from \$1,160,804 in 1904 to \$15,288,642 in 1909, or 1,217.1 per cent.

Of the total number of automobiles made in 1909, 76.6 per cent were to be operated with gasoline, and their value formed 76.4 per cent of the total value of all machines manufactured. The number of gasoline machines manufactured increased 504.5 per cent and their value 367.1 per cent over 1904. The increase in the electric and steam automobiles was 236.2 per cent in number and 313.1 per cent in value.

PRODUCT.	1909		1904	
	Num-ber.	Value.	Num-ber.	Value.
Total value		\$38,838,754		\$6,358,164
Automobiles, total.....	14,299	23,550,112	2,808	5,197,360
Gasoline.....	10,947	17,999,332	1,811	3,853,621
Electric and steam.....	3,352	5,550,780	997	1,343,739
Passenger vehicles.....	13,628	22,921,062	1,208	1,517,360
Buggies, runabouts, and touring cars.....	11,539	18,356,985	1,208	1,517,360
Limousines, cabs, etc.....	1,185	2,775,891		
All other (omnibuses, ambulances, etc.).....	904	1,788,186		
Business vehicles (merchandise).....	671	629,050		
Delivery wagons.....	469	242,105		
Trucks.....	202	389,945		
All other products, including repair work.....		15,288,642		1,160,804

¹ Includes "Business vehicles," to avoid disclosure of individual operations.

A classification by horsepower rating shows that the greatest number of machines in 1909 were of 30 but less than 50 horsepower. Such machines numbered 4,742 and formed nearly one-third of the total. The next largest number, 3,825, consisted of machines rated at 20 but less than 30 horsepower. Those of from 10 to 19 horsepower, inclusive, numbered 3,716, and those of less than 10 horsepower, 1,542. The higher power machines were fewer in number, 461 being rated at 50 but less than 90 horsepower, and 13 at 90 horsepower or more. No rating by horsepower was secured in 1904, so that comparative data are not possible.

Lumber and timber products.—In the following tabular statement are shown the quantities of rough lumber, lath, and shingles produced in 1909 and 1899:

PRODUCT.	QUANTITY.	QUANTITY.	
		1909	1899
Rough lumber..... M feet b. m.		542,904	990,497
Lath..... thousands..		17,508	18,519
Shingles..... thousands..		3,227	13,605

The production of lumber in Ohio decreased 45.2 per cent during the decade 1899-1909, that of lath 5.5 per cent, and that of shingles 76.3 per cent. This

decline is due in the main to the decreasing supply of merchantable timber.

The state dropped in rank from fourteenth in 1899 to twenty-seventh in 1909 in the production of rough lumber from all species, and now ranks tenth in the total production of hardwood lumber in the United States. Oak formed 47.8 per cent of the total output of lumber in the state in 1909 and 62.3 per cent in 1899, only seven states exceeding Ohio in the output of oak lumber in the latter year. Ohio ranked first in 1909 in the cut of walnut lumber, contributing 18.6 per cent of the total production of this species in the United States. Other hardwoods cut in considerable quantities in the state were beech, maple, yellow poplar, elm, ash, and hickory, which ranked in production in the order named.

Boots and shoes.—The following table gives the number and kinds of boots, shoes, and slippers produced by the boot and shoe factories of Ohio in 1909, 1904, and 1899:

PRODUCT.	NUMBER OF PAIRS.		
	1909	1904	1899
Total	18,908,915	18,263,416	13,849,679
Boots and shoes.....	17,693,316	18,063,299	13,507,978
Men's.....	1,702,194	1,661,202	527,241
Boys' and youths'.....	1,372,330	1,590,568	974,257
Women's.....	11,154,083	9,797,093	8,204,972
Misses' and children's.....	3,464,709	5,014,436	3,801,508
Slippers.....	1,147,239	192,053	275,991
All other.....	68,360	8,064	65,710

The boot and shoe industry in Ohio did not show as large an increase from 1904 to 1909 in the total number of pairs produced as it did from 1899 to 1904, yet all kinds of shoes except boys' and youths' and misses' and children's were manufactured in larger quantities in 1909 than in 1904. More women's shoes were manufactured than any other kind and they formed 59 per cent of the total product. The number of pairs produced increased 1,356,990, or 13.9 per cent, between 1904 and 1909, which was the largest absolute increase reported for any class. The largest relative increase, however, was in the number of pairs of slippers, which increased 955,186, or 497.4 per cent.

In the quantity and value of boot and shoe products Cincinnati stood sixth in 1909 among the cities of the United States, with a production valued at nearly \$15,000,000. Portsmouth and Columbus have also become prominent in this industry, both reporting products valued at more than \$5,000,000 for that year.

The next table is a statement of the various kinds of footwear, by method of manufacture, for 1909 only.

Of the total number of pairs of boots and shoes manufactured, 9,706,685, or 54.9 per cent, were made by the McKay method and 5,760,738, or 32.6 per cent, by the machine or hand welt method. Men's shoes were made principally by the machine or hand welt method, and misses' and children's by the McKay method.

PRODUCT.	NUMBER OF PAIRS, BY METHOD OF MANUFACTURE.			
	Total.	Machine or hand welt.	McKay.	All other methods. ¹
Boots and shoes.....	17,693,316	5,760,738	9,706,685	2,225,893
Men's.....	1,702,194	1,050,218	235,457	416,519
Boys' and youths'.....	1,372,330	420,986	570,888	380,456
Women's.....	11,154,083	4,038,641	6,073,809	1,041,633
Misses' and children's.....	3,464,709	250,893	2,826,531	387,285
Slippers and infants' shoes.....	1,215,599	67,376	580,125	568,098

¹ Includes "wire screw or metal-fastened," "turned," and "wooden-pegged."

Carriages and wagons and materials.—The following table shows the number and value of the various products of the carriage and wagon industry for 1909, 1904, and 1899:

PRODUCT.	1909	1904	1899
Total value	\$21,949,459	\$24,002,500	\$22,803,197
Carriages (family and pleasure):			
Number.....	135,877	199,428	213,692
Value.....	\$8,126,285	\$11,373,346	\$11,257,362
Wagons:			
Number.....	28,882	40,905	44,315
Value.....	\$2,733,606	\$2,703,566	\$2,556,063
Business—			
Number.....	12,187	7,988	.....
Value.....	\$1,507,161	.....	.....
Farm—			
Number.....	16,549	52,645	.....
Value.....	\$952,252	.....	.....
Government, municipal, etc.—			
Number.....	146	272	.....
Value.....	\$274,193	.....	.....
Public conveyances:			
Number.....	657	217	41
Value.....	\$206,458	\$107,141	\$16,000
Sleighs and sleds:			
Number.....	7,589	8,479	3,555
Value.....	\$78,542	\$52,166	\$25,761
All other products, including parts and repair work.....	\$10,804,568	\$9,766,281	\$8,948,011

Ohio still ranks first among the several states in the production of carriages and wagons, notwithstanding a decrease in the value of products from 1904 to 1909 of \$2,053,041. Inspection of the figures for the different classes shows that all the decrease in value results from the decreased production of family and pleasure carriages. In 1899, 213,692 carriages were produced; with a value of \$11,257,362, and they contributed 49.4 per cent of the total value of the products of the industry, but in 1909 only 135,877 carriages were produced, with a value of \$8,126,285, and they contributed only 37 per cent of the total value of products of the industry. This change is accounted for largely by the enormous development of the automobile industry, which has caused many carriage makers either to go out of business or to devote their attention to automobile manufacture. The decreased numbers of farm wagons manufactured and the great increase in the value of all other products, including parts and repair work, are other interesting features of the table.

Pottery, terra-cotta, and fire-clay products.—At each of the last three censuses Ohio was first among the states in the manufacture of pottery, terra-cotta, and fire-clay products. At the census of 1909 the value of these products comprised 27.8 per cent of the total for the industry in the United States. There was an increase of \$2,622,432, or 14.1 per cent, in 1909 over 1904, and of \$9,322,047, or 78.7 per cent, over

1899. The following table gives the products by kind and value for 1909, 1904, and 1899:

PRODUCT.	1909	1904	1899
Total value	\$21,173,272	\$18,550,840	\$11,851,225
Pottery	13,416,356	11,904,210	6,994,805
Red earthenware.....	145,137	181,736	164,798
Stoneware and yellow and Rockingham ware.....	1,806,798	1,146,718	741,685
White ware, including C. C. ware, white granite ware, semiporcelain ware, and semivitreous ware.....	8,884,189	8,446,868	5,033,874
Sanitary ware, including solid porcelain bath tubs, laundry tubs, etc.....	310,254	197,225	.....
Porcelain electrical supplies.....	1,146,694	584,243	190,314
Other pottery products.....	1,123,284	1,347,420	864,134
Terra-cotta and fire-clay products	7,756,916	6,646,630	4,856,420
Fire brick.....	.....	.....	.....
Thousand.....	1,103,148	84,253	69,129
Value.....	\$1,730,401	\$1,240,826	\$976,693
Sewer pipe.....	3,009,798	2,839,772	1,680,724
Fireproofing.....	804,637	577,014	346,080
Tile, not drain.....	1,912,343	971,785	565,094
Stove lining.....	23,803	(²)	7,563
Other terra-cotta and fire-clay products ³	122,010	884,872	1,267,451
All other products	153,924	32,361	12,805

¹ Includes refractory block or tile, boiler and locomotive tile and tank blocks, and other refractory products (9-inch equivalent).

² Not reported separately.

³ Includes common, fancy or ornamental, vitrified, and paving brick or block and draitile to the value of \$322,228 in 1904 and \$448,989 in 1899.

The manufacture of pottery products is the more important branch of the industry, and in 1909 it furnished 63.4 per cent of the total value of the products. This represents a very slight decrease in the relative importance of the pottery products since 1904, in which year their value formed 64.2 per cent of the total, but it represents a considerable increase since 1899, when the proportion was 59 per cent. The value of the pottery products has increased materially since 1899, being \$21,173,272 in 1909 as contrasted with \$11,851,225 in 1899.

White ware, including C. C. (cream colored) ware, white granite, semiporcelain, and semivitreous ware, was the leading pottery product in Ohio. In 1909 the value of such ware reported for the state was \$8,884,189, which is 64.7 per cent of the total reported for the United States. The increase in the value of this product was small between 1904 and 1909, but between 1899 and 1904 it was \$3,412,994, or 67.8 per cent.

Red earthenware and those pottery products included in "Other pottery products" showed a decrease between 1904 and 1909 in the value of products, but the other classes showed increases as follows: Stoneware and yellow and Rockingham ware, 57.6 per cent; sanitary ware, 57.3 per cent; and porcelain electrical supplies, 96.3 per cent. Of the total value of the stoneware and yellow and Rockingham ware made in the United States, Ohio reported 45.2 per cent, and of the porcelain electrical supplies, 37.6 per cent.

Sewer pipe was the leading terra-cotta and fire-clay product, the value of that produced in Ohio forming about one-third of the total for the country as a whole. Its production, however, did not increase materially between 1904 and 1909, the percentage of increase being only 2.4. The proportion which the value of

sewer pipe formed of the total value of the products of this branch of the industry fell, moreover, from 44.2 per cent in 1904 to 38.8 per cent in 1909. All the other products reported separately showed considerable increase. The value of tile, not drain, increased 96.8 per cent between 1904 and 1909 and 238.4 per cent between 1899 and 1909. The value of fireproofing increased 39.4 per cent between 1904 and 1909 and 132.5 per cent between 1899 and 1909. Fire brick, the only item for which quantities are given, shows a gain of 18,895 thousand in number and \$489,575 in value from 1904 to 1909 and of 15,124 thousand in number and \$264,133 in value for the prior census period. The value of fire brick in 1909 formed 22.3 per cent of the value of terra-cotta and fire-clay products.

Brick and tile.—The value of the brick and tile produced in 1909 was \$2,221,700, or 31.1 per cent, greater than in 1904, and \$4,728,143, or 102.1 per cent, greater than in 1899. The following table gives the products classified by kind, quantity, and value for the last three censuses:

PRODUCT.	1909	1904	1899
Total value	\$9,357,730	\$7,136,030	\$4,629,587
Brick	\$6,961,161	\$5,355,808	\$3,743,365
Common—	.....	.....	.....
Thousand.....	420,999	1,459,443	1,450,047
Value.....	\$2,429,879	\$2,675,314	\$2,341,063
Vitrified, paving, etc.—	.....	.....	.....
Thousand.....	324,530	167,888	118,804
Value.....	\$3,113,125	\$1,714,293	\$924,585
Front, including fancy-colored—	.....	.....	.....
Thousand.....	130,684	82,552	45,515
Value.....	\$1,395,787	\$856,431	\$436,880
Fancy or ornamental.....	\$24,307	\$109,770	\$40,337
Draitile	\$2,032,528	\$1,111,138	\$836,031
All other products	\$364,041	\$669,084	\$49,591

¹ Includes enameled brick, \$3,000; sand-lime brick, \$8,750; and fire brick, \$48,046.

Vitrified paving brick or block contributed 33.3 per cent of the total value of the products of the entire industry in 1909, and showed an increase in value of \$1,398,835, or 81.6 per cent, between 1904 and 1909. The figures for the three censuses for common building brick, including common brick used for paving and hollow building brick, are not strictly comparable, because hollow building brick was not included under this item previous to the census of 1909. Had this class of brick been omitted from the item "Common brick" in 1909, the decrease would be still greater. Front brick showed an increase in value of 62.7 per cent between 1904 and 1909, and for the more recent year contributed 14.9 per cent of the total value of products for this industry as compared with 12 per cent in 1904.

The value of fancy or ornamental brick decreased 77.8 per cent between 1904 and 1909. The value of draitile, which represented 15.6 per cent of the total value of brick and tile products in 1904, showed an increase of \$921,390, or 82.9 per cent, between 1904 and 1909, and in 1909 formed 21.7 per cent of the total for the industry.

Soap.—The following table gives for this industry the kind, quantity, and value of the principal varieties of soap, as shown at the censuses of 1909 and 1904. In 1899 this industry was classified with candles under "Soap and candles"; therefore no figures are included for that census.

PRODUCT.	1909	1904
Total value	\$17,077,308	\$11,791,223
Hard soap:		
Pounds.....	255,943,442	268,786,287
Value.....	\$14,589,331	\$10,245,313
Soft soap:		
Pounds.....	1,268,533	1,123,100
Value.....	\$36,449	\$39,834
Glycerin:		
Pounds.....	11,174,661	8,843,638
Value.....	\$1,751,070	\$995,009
All other products, including special soap articles.....	\$700,458	\$511,267

Ohio, with a gain of \$5,286,085, or 44.8 per cent, from 1904 to 1909, in the value of soap products, remained the third state of the Union in the industry. The quantity of hard soaps produced decreased slightly, but their value increased considerably. Statistics for the different kinds of soap can not be shown separately, as to do so might reveal the operations of an establishment which reported by far the greater part of the production of a number of the varieties. It can be said, however, that Ohio led the country in 1909 in olein soap and was second in tallow soap. Soft soap was shown to have increased in quantity but to have decreased in value. The value of all other products, including special soap articles, increased.

Paper and wood pulp.—In the value of paper and wood pulp produced, Ohio ranked sixth among the states in 1909. The industry stood twenty-second among those of the state in value of products, and in that respect shows an increase of \$6,003,733, or 54.8 per cent. The next tabular statement shows the materials and products, by kind, quantity, and value, for the last three censuses.

Of the 47 establishments reporting in 1909 only four made both paper and pulp. Only one mill made pulp for sale, and of the four mills making and consuming pulp, no more than two used the same processes, hence figures for wood pulp sold and for the various classes of wood pulp produced can not be presented without disclosing individual operations. It may be said, however, that a little pulp was manufactured by the grinding process but that most of it was made by chemical processes, principally the sulphite. The principal kinds of wood used were spruce and hemlock.

The cost of the wood pulp purchased slightly more than doubled from 1904 to 1909, and the quantity of wood pulp made by establishments consuming it decreased. Of the specified kinds of paper produced, book paper showed the greatest percentage of increase from 1904 to 1909 both in output and value, fine paper, which includes writing paper, ranking second. Heavy wrapping paper decreased both in quantity and value, and straw wrapping in quantity only. There was an increase in value of strawboard during the 10-year

period, with a decreased output. For the period 1904-1909, however, there was a decrease in value, accompanied with an increase of output. News paper is not shown separately in the statement, as it was the product of but two mills.

The yearly capacity of the paper machines reported increased from 212,639 tons in 1899 to 281,075 in 1904 and 414,650 in 1909.

MATERIAL, PRODUCT, OR MACHINE.	1909	1904	1899
Materials used, total cost	\$10,898,285	\$6,153,761	\$3,768,572
Pulp wood.....	\$443,296	\$189,724	\$104,500
Wood pulp, purchased:			
Tons.....	80,201	40,040	26,691
Cost.....	\$3,743,972	\$1,585,559	\$867,637
Ground—			
Tons.....	4,778	2,782	5,186
Cost.....	\$110,372	\$57,829	\$96,899
Sulphite fiber—			
Tons.....	47,167	27,344	12,647
Cost.....	\$2,292,178	\$1,109,884	\$410,563
Other chemical fiber—			
Tons.....	28,256	9,914	8,858
Cost.....	\$1,341,422	\$417,846	\$360,045
Rags, including cotton and flax waste and sweepings:			
Tons.....	33,744	22,877	19,416
Cost.....	\$893,509	\$556,545	\$374,643
Old and waste paper:			
Tons.....	93,239	55,475	26,087
Cost.....	\$1,286,182	\$606,328	\$309,884
Manila stock, including jute bagging, rope, waste, threads, etc.:			
Tons.....	25,949	12,268	14,994
Cost.....	\$856,420	\$354,112	\$395,370
Straw:			
Tons.....	70,322	71,936	93,127
Cost.....	\$335,951	\$327,355	\$274,447
Fuel and rent of power.....	\$1,049,097	\$709,028	\$485,265
All other materials.....	\$2,289,858	\$1,825,110	\$956,796
Products, total value	\$16,965,260	\$10,961,527	\$6,543,513
Book, cover, plate, and coated paper:			
Tons.....	75,607	45,604	16,582
Value.....	\$6,752,103	\$4,019,447	\$1,146,015
Writing and other fine paper:			
Tons.....	19,579	8,722	4,095
Value.....	\$2,306,016	\$1,057,920	\$578,172
Wrapping paper:			
Tons.....	42,548	44,037	49,854
Value.....	\$2,389,232	\$1,786,172	\$2,303,199
Manila (rope, jute, tag, etc.)—			
Tons.....	12,393	10,056	18,579
Value.....	\$1,264,635	\$777,055	\$1,398,700
Heavy (mill wrappers, etc.)—			
Tons.....	5,725	6,314	5,646
Value.....	\$147,869	\$164,873	\$175,473
Straw—			
Tons.....	8,682	9,078	10,619
Value.....	\$217,050	\$207,610	\$211,234
All other—			
Tons.....	15,748	18,589	15,010
Value.....	\$759,678	\$636,634	\$547,792
Boards:			
Tons.....	106,016	60,269	53,886
Value.....	\$3,159,290	\$1,716,740	\$1,167,360
Strawboard—			
Tons.....	37,710	33,953	40,531
Value.....	\$853,100	\$866,879	\$800,038
All other boards—			
Tons.....	68,306	26,316	13,355
Value.....	\$2,306,190	\$849,861	\$367,322
Building, roofing, and sheathing paper:			
Tons.....	18,974	15,400	7,275
Value.....	\$598,680	\$499,692	\$213,603
All other products.....	\$1,759,939	\$1,881,556	\$1,135,164
Wood pulp produced (including that used in mills where manufactured), tons.....	25,935	29,274	13,805
Equipment:			
Paper machines:			
Total number.....	118	96	81
Capacity, yearly, tons.....	414,650	281,075	212,639
Fourdrinier—			
Number.....	63	37	33
Capacity per 24 hours, tons.....	575	299	(¹)
Cylinder—			
Number.....	55	59	48
Capacity per 24 hours, tons.....	717	554	(¹)
Pulp equipment:			
Grinders, number.....	5	5	7
Digesters, total number.....	11	8	13
Sulphite fiber, number.....	8	8	(²)
Soda fiber, number.....	3		(²)
Capacity, yearly, tons of pulp.....	54,400	34,169	29,436
Ground, tons.....	7,800	5,321	(²)
Sulphite, tons.....	43,600	28,829	(²)
Soda, tons.....	3,000		(²)

¹ Not reported.² Not reported separately.

Agricultural implements.—For the last two census periods Ohio has been third among the states in the value of its production of agricultural implements, and the industry is of sufficient importance to rank twenty-fifth among those of the state. The value of products in 1909 represents an increase of 12 per cent over 1904 and of 3.3 per cent over 1899. The next table gives for 1909 and 1904 the value of the products manufactured, distributed according to the classes of implements made, but for 1899 only the combined total value of these products is given. Under the heading "All other products" are included miscellaneous agricultural implements and parts which can not be placed in any of the four groups distinguished in the table and also a large number of products not distinctively agricultural, although made by manufacturers of agricultural implements, such as windmills, carriages and wagons, engines, presses, lawn swings, etc. The value of these products classified as "All other products" represents more than a third of the total value for the industry in the state.

PRODUCT.	1909	1904	1899
Total value	\$14,440,461	\$12,891,197	\$13,975,268
Implements of cultivation.....	3,062,194	3,031,384	13,053,868
Seeders and planters.....	2,245,512	2,016,919	
Harvesting implements.....	2,675,727	3,193,853	
Seed separators.....	858,106	501,482	
All other products.....	5,291,338	3,624,137	
Amount received for repair work.....	307,584	523,422	921,400

Glass.—In the industry as a whole, Ohio ranked third in 1904 and second in 1909, and in the manufacture of globes and electrical goods, and beer, soda, and mineral-water bottles the state ranked first.

The next tabular statement shows, for 1909, 1904, and 1899, (1) the kind, quantity, and value of the principal varieties of building glass, (2) the total value of the pressed and blown glass and of the bottles, jars, etc., produced, and (3) the quantity of the different kinds of pressed and blown glass and bottles and jars produced.

Pressed and blown glass was the most important product of the glass industry in Ohio in 1909, furnishing 42.9 per cent of the total value of products. Bottles and jars were second, with 32.9 per cent, and building glass third, with 19.1 per cent. Pressed and blown glass also showed the greatest absolute increase in value between 1904 and 1909, but the greatest percentage of increase (68.9) was in building glass. All kinds of pressed and blown ware increased in quantity between 1904 and 1909 except chimneys and lantern globes. The most conspicuous increase was in the number of dozens of electric globes and other goods, from 1,732,800 in 1904 to 4,750,785 in 1909, or 174.2 per cent. The per cent of increase for gas shades, globes, and other goods was somewhat larger (293.9 per cent), but the absolute increase was only 478,950 dozens. All classes of bottles and jars showed increases except "Liquors and flasks" and "Patent and proprietary." Noteworthy increases occurred in the numbers of

"Beer, soda, and minerals," "Milk jars," and "Packers and preservers." All classes of building glass increased materially.

PRODUCT.	1909	1904	1899
Total value	\$14,358,274	\$9,026,208	\$4,547,083
Building glass.....	\$2,744,513	\$1,625,126	\$671,422
Window glass—			
50-foot boxes.....	829,872	380,771	200,854
Value.....	\$1,533,460	\$941,244	\$519,187
All other.....	\$1,211,053	\$683,882	\$152,235
Pressed and blown glass.....	\$6,160,707	\$3,954,600	\$2,738,289
Bottles and jars.....	\$4,717,658	\$2,961,727	\$1,058,955
All other products.....	\$735,396	\$484,695	\$78,417
<i>Kind and quantity of pressed and blown glass and bottles and jars.</i>			
Pressed and blown glass:			
Tableware—100 pieces.....	248,815	161,900	150,992
Jellies, tumblers, and goblets, dozens.....	4,133,100	2,088,925	1,681,584
Lamps, dozens.....	50,147	25,744	191,084
Chimneys, dozens.....	1,215,815	1,690,314	1,508,114
Lantern globes, dozens.....	213,586	255,805	142,800
Globes and other electrical goods, dozens.....	4,750,785	1,732,800	1,397,824
Shades, globes, and other gas goods, dozens.....	641,896	162,946	(¹)
Blown tumblers, stem ware, and bar goods, dozens.....	2,255,805	1,835,350	214,072
Opal ware, dozens.....	318,350	200,000	96,597
Cut ware, dozens.....	6,000	5,850	2,900
Bottles and jars:			
Prescriptions, vials, and druggists' ware, gross.....	148,071	79,342	76,409
Beer, soda, and mineral, gross.....	585,924	433,546	219,422
Liquors and flasks, gross.....	222,764	268,782	16,400
Milk jars, gross.....	107,644	2,387	6,000
Fruit jars, gross.....	21,626	(²)	2,000
Patent and proprietary, gross.....	21,933	47,933	20,000
Packers and preservers, gross.....	138,269	10,155	25,000

¹ Included in "Globes and other electrical goods."

² Not reported.

The number of furnaces, including both active and idle, was 138 in 1909, as compared with 93 in 1904 and 60 in 1899. Sixty-eight of the total number in 1909 were pot furnaces, and they had 736 pots. The corresponding figures for 1904 were 43 pot furnaces with 620 pots, and for 1899, 42 pot furnaces with 539 pots. Fifty-seven tank furnaces with 532 rings were reported in 1909; 36 in 1904 with 303 rings; and 12 in 1899 with 95 rings. Thirteen intermittent or dry-tank furnaces were reported in 1909 with a capacity of 30 tons. The corresponding figures were, for 1904, 14 with a capacity of 42 tons, and for 1899, 6 with a capacity of 25 tons.

The fuel used in the largest number of furnaces in 1909 was producer and natural gas.

Paint and varnish.—The increase in the total value of paint and varnish was very much larger during the period 1904–1909 than during the preceding five years. The next table shows the kind, quantity, and value of the output for the last three censuses.

Paints in oil already mixed for use are the principal products of the paint and varnish industry of Ohio. In 1909 the value of this product was \$5,334,914, which was 39.2 per cent of the total for the industry. The increase in the manufacture of these ready-mixed paints was marked during the five years 1904–1909, the quantity produced more than doubling and the value almost doubling. Oleoresinous varnishes ranked second in 1909 among the products, with a value of \$2,413,323, or 17.7 per cent of the total. These varnishes almost trebled in quantity and considerably

more than doubled in value. Spirit varnishes and damar and similar turpentine and benzine varnishes decreased in both quantity and value. Paste fillers, dry fillers, and putty also decreased in both quantity and value, due mostly to a great reduction in the output of two large establishments.

PRODUCT.	1909	1904	1899
Total value.....	\$13,617,189	\$8,530,142	\$6,703,624
Pigments.....	\$949,613	\$781,117	\$579,377
Paints.....	\$7,674,867	\$4,389,985	.....
White lead in oil—			
Pounds.....	24,057,529	19,903,727	(¹)
Value.....	\$1,532,797	\$957,134	(¹)
Paints in oil, in paste—			
Pounds.....	12,237,952	10,027,720	30,595,967
Value.....	\$807,156	\$701,088	\$1,752,553
Paints in oil, already mixed for use—			
Gallons.....	6,769,267	3,081,836	2,578,218
Value.....	\$5,334,914	\$2,731,763	\$2,365,938
Varnishes and japans.....	\$3,721,889	\$2,424,730	\$1,965,016
Oleoresinous varnishes—			
Gallons.....	3,790,073	1,736,439	.....
Value.....	\$2,413,323	\$1,181,203	.....
Damar and similar turpentine and benzine varnishes—			1,245,565
Gallons.....	309,080	624,295	\$1,177,397
Value.....	\$259,204	\$582,284	.....
Spirit varnishes, not turpentine—			
Gallons.....	77,786	80,675	43,304
Value.....	\$106,848	\$107,147	\$50,107
Drying and baking japans and lacquers—			
Gallons.....	1,715,173	(²)	(²)
Value.....	\$672,443	\$470,771	\$512,299
All other.....	\$270,071	\$83,325	\$225,213
Fillers and putty:			
Liquid fillers—			
Gallons.....	292,867	146,469	(²)
Value.....	\$155,869	\$89,213	(²)
Paste fillers, dry fillers, and putty—			
Pounds.....	4,623,364	8,779,800	(²)
Value.....	\$159,570	\$246,412	(²)
All other products.....	\$955,381	\$598,685	\$40,740

¹ Included with "Pigments."

² Not reported.

Petroleum, refining.—Ohio was fifth among the states in the production of crude petroleum in 1909, and seventh in the value of its refinery output. The next tabular statement gives the quantity and cost of materials used in the refineries of the state, the quantity and value of the principal products, and details as to the main equipment reported for 1909, 1904, and 1899.

The quantity of illuminating oil and greases produced decreased between 1904 and 1909, but the quantity of fuel oils nearly doubled, and that of lubricating oils and of naphtha and gasoline increased 61.7 per cent and 15.4 per cent, respectively. Of the total quantity of refined oils, which include illuminating, fuel, and lubricating, the fuel oils formed 41.9 per cent in 1909, as contrasted with 28 per cent in 1904 and 26.3 per cent in 1899.

Of the total crude oil used in Ohio refineries in 1909 about one-half was from the Lima (Ohio) and Indiana fields. The remainder, excepting 5.3 per cent returned as "Pennsylvania, including Kentucky," was from the Illinois field.

The development of the industry in the state is also reflected in the equipment, such as stills, storage tanks, and agitators. The number of stills was 198 in 1909, as compared with 217 in 1904 and 222 in 1899. The combined capacity of the stills reported for 1909 was

105,881 barrels of 42 gallons; for the other years this detail was not given. There were 675 tanks in 1909, of which 61 were for crude oils and 614 for refined; in 1904 there were 519, of which 20 were for crude oil and 499 for refined; and in 1899, 296, of which 21 were for crude and 275 for refined. At the earliest of the three censuses no statement of storage capacity was requested. In 1909 the refineries could store 21,520,952 gallons of crude and 78,612,190 gallons of refined petroleum, compared with 8,964,030 gallons of crude and 84,888,935 gallons of refined in 1904. The agitators numbered 44 in 1909, 52 in 1904, and 53 in 1899.

MATERIAL, PRODUCT, OR EQUIPMENT.	1909	1904	1899
Materials used, total cost.....	\$8,144,583	\$7,662,397	\$6,177,048
Crude petroleum:			
Barrels (42 gallons).....	4,833,675	4,195,871	4,061,554
Cost.....	\$4,987,558	\$5,143,137	\$4,495,890
Containers.....	\$652,487	\$936,659	\$549,081
All other materials.....	\$2,504,538	\$1,582,601	\$1,132,077
Products, total value.....	\$10,753,738	\$10,948,864	\$8,396,977
Oils:			
Illuminating—			
Barrels (50 gallons).....	1,204,186	.....	1,387,150
Value.....	\$2,618,762	1,961,105	\$3,449,427
Fuel (including gas oils)—			
Barrels.....	1,257,950	.....	614,631
Value.....	\$1,302,720	\$5,189,808	\$629,548
Lubricating—			
Barrels.....	543,526	336,116	331,863
Value.....	\$2,062,387	\$1,540,896	\$701,635
Naphtha and gasoline (including gas naphtha)—			
Barrels.....	539,828	467,594	598,858
Value.....	\$2,224,283	\$1,076,529	\$1,750,541
Greases (lubricating, etc.):			
Barrels.....	18,076	19,659	161,264
Value.....	\$207,225	\$158,885	\$723,308
Paraffin wax:			
Barrels.....	54,536	47,533	66,455
Value.....	\$470,760	\$549,515	\$801,223
Residuum or tar:			
Barrels.....	101,105	111,339	146,628
Value.....	\$193,403	\$210,911	\$224,819
Coke and black naphtha.....	\$33,829	\$30,448	\$12,594
All other products.....	\$1,640,369	\$1,592,872	\$103,882
Equipment:			
Stills, number.....	199	217	222
Heated by steam—			
Number.....	30	32	32
Capacity (barrels, 42 gallons).....	22,589	(¹)	(¹)
Heated by superheated steam—			
Number.....	8	1	1
Capacity (barrels, 42 gallons).....	4,000	(¹)	(¹)
Heated by fire—			
Number.....	160	184	189
Capacity (barrels, 42 gallons).....	79,292	(¹)	(¹)
Agitators, number.....	44	52	53
Chilling houses for paraffin, number.....	9	8	8
Hydraulic or other presses, number.....	17	41	54
Storage tanks:			
For crude petroleum—			
Number.....	61	20	21
Capacity, gallons.....	21,520,952	8,964,030	(¹)
For refined petroleum—			
Number.....	614	499	275
Capacity, gallons.....	78,612,190	84,888,935	(¹)
Cooper shops, number.....	4	7	5
Tin shops, number.....	1	1	1

¹ Not reported.

Leather, tanned, curried, and finished.—Ohio has held the tenth position among the states in the manufacture of leather since 1899. The value of the leather product increased from \$5,182,065 in 1899 to \$6,512,754 in 1904 and to \$10,127,836 in 1909, or a gain of 55.5 per cent between 1904 and 1909 and of 95.4 per cent between 1899 and 1909. The next table gives the products, by kind, quantity, and value, for 1909, 1904, and 1899.

Carriage, automobile, and furniture leather was the leading product, with a value of \$3,734,827. Large

amounts of sundry kinds of leather are included with "All other leather," to avoid disclosing operations of individual establishments.

Of the total value of leather made in the state in 1909 the city of Cincinnati reported one-half, a slight decrease since 1904, when the city reported 52.3 per cent of the total production.

The number of cattle hides used in the manufacture of leather in Ohio in 1909 was 514,226, and they cost \$5,179,537, an increase of 110,571, or 27.4 per cent, in number and of \$2,335,867, or 82.1 per cent, in cost over 1904. The skins reported in 1909 numbered 607,624, and they cost \$1,157,205, an increase of 31,677, or 5.5 per cent, in number and of \$476,744, or 70.1 per cent, in cost.

PRODUCT.	1909	1904	1899
Total value	\$10,127,836	\$6,512,754	\$5,132,065
Upper leather, other than calf or kip skins (grain, satin, pebble, etc.):			
Sides.....	22,668	2,500	1,100
Value.....	\$76,277	\$9,700	\$2,875
Harness leather:			
Sides.....	363,981	309,434	336,015
Value.....	\$2,540,892	\$1,860,772	\$1,831,651
Carriage, automobile, and furniture leather:			
Hides.....	261,950	205,517	109,071
Value.....	\$3,734,827	\$1,798,800	\$955,973
All other leather.....	\$3,509,863	\$1,777,999	\$2,291,744
All other products.....	\$265,277	\$1,060,397	\$96,762
Work on materials for others.....	\$700	\$36	\$3,060

Butter, cheese, and condensed milk.—The manufacture of butter, cheese, and condensed milk, although not one of the leading industries of the state, is of such importance that Ohio ranks ninth among the states in the industry. In the manufacture of cheese alone, and of condensed milk alone, it ranks fourth. The following statement gives the principal products, by kind, quantity, and value, for 1909, 1904, and 1899:

PRODUCT.	1909	1904	1899
Total value	\$9,689,670	\$4,593,222	\$3,808,996
Butter:			
Packed solid—			
Pounds.....	11,265,341	7,233,289	6,802,419
Value.....	\$3,162,518	\$1,527,514	\$1,335,512
Prints or rolls—			
Pounds.....	6,225,910	4,358,692	1,285,212
Value.....	\$1,822,755	\$1,007,067	\$304,039
Cream sold:			
Pounds.....	4,735,900	1,843,868	6,298,648
Value.....	\$500,528	\$116,253	\$396,743
Cheese:			
Full cream—			
Pounds.....	9,768,970	13,219,415	14,570,866
Value.....	\$1,305,461	\$1,231,779	\$1,304,795
Part cream—			
Pounds.....	1,550,560	.....	.....
Value.....	\$197,656	.....	.....
Other kinds—			
Pounds.....	541,071	4,132,358	3,585,661
Value.....	\$30,400	\$424,184	\$350,928
Condensed milk:			
Sweetened—			
Pounds.....	4,232,160	266,250	100,000
Value.....	\$256,529	\$15,975	\$6,500
Unsweetened—			
Pounds.....	33,423,187	1,680,968	.....
Value.....	\$2,153,430	\$123,088	.....
All other products ¹	\$260,393	\$147,362	\$110,479

¹ Includes skimmed milk sold and casein, whey, and skimmed cheese.

The total value of the products increased \$5,880,674, or 154.4 per cent, during the 10 years 1899-1909.

The increase from 1899 to 1904 was 20.6 per cent, and from 1904 to 1909, 111 per cent.

From 1904 to 1909 the quantity of butter manufactured increased 50.9 per cent and the value 96.7 per cent. The increase for the 10-year period from 1899 to 1909 was 116.3 per cent in quantity and 204 per cent in value. The average value per pound as reported for all kinds in 1909 was 28.5 cents, as against 21.9 cents in 1904.

The total amount of cheese produced decreased from over 18,000,000 pounds in 1899 to about 17,000,000 in 1904 and about 12,000,000 in 1909, a decrease for the decade of 34.7 per cent. The value decreased from \$1,655,723 in 1899 to \$1,533,517 in 1909. The value in 1904 was practically the same as the value in 1899.

Attention should be called to the fact that part-cream cheese was not differentiated from full-cream cheese prior to 1909. The full-cream cheese reported for the earlier censuses included a certain amount of part-cream cheese. In 1909, 1,550,566 pounds of part-cream cheese, valued at \$197,656, were reported.

The output of condensed milk in the state increased from 100,000 pounds in 1899 to 37,655,347 pounds in 1909, and its value increased from \$6,500 to \$2,409,959. This most remarkable increase from 1899 to 1909 was due to the establishment during the 10 years of a number of large factories for making unsweetened condensed milk. The growth of this branch of the industry has resulted probably in a diversion of considerable quantities of milk formerly sent to the cheese factories and may account in a measure for the decline in the production of cheese.

The butter, cheese, and condensed-milk industry in 1909 was represented by 119 butter, 197 cheese, and 9 condensed-milk factories. Two of the butter factories also made condensed milk, and one butter factory made cheese. Twenty of the cheese factories and one condensed-milk factory made butter also.

Twenty-eight of the butter and 85 of the cheese factories were operated by cooperative associations. These associations operated 34.8 per cent of all the establishments in the combined industry, but employed only 10.7 per cent of the wage earners, and produced only 11.1 per cent of the value of products. Eight of the nine condensed-milk factories were operated by corporations; the other was conducted by a firm.

Chemicals.—The next statement shows the kind, quantity, and value of certain of the products reported for the chemical industry at the last three censuses. The quantity and value of many of the chemicals can not be shown separately, as they are the product of fewer than three establishments and the publication of statistics regarding them would disclose the operations of individual establishments.

The chemical industry in Ohio advanced rapidly in the 10 years from 1899 to 1909. The value of its products was \$3,576,260 at the census of 1899, as con-

trasted with \$7,742,045 in 1909, an increase of \$4,165,785, or 116.5 per cent. Sodas, which were of comparatively little importance in 1899, were the most important products of the industry in value in 1909, contributing 29.5 per cent of the total. In 1899 their value was less than \$125,000, but by 1909 it had increased to almost \$2,300,000. The chemicals included under the head of "Other chemicals," which ranked second, increased from a little over \$125,000 in value in 1899 to over \$1,000,000 in 1909, and glycerin, which ranked third among the products, increased 64.9 per cent. Fine chemicals also show a marked increase in value, from \$1,650 in 1899 to \$292,626 in 1909.

PRODUCT.	1909	1904	1899
Total value	\$7,742,045	\$4,589,749	\$3,576,260
Acids:			
Oleic—			
Pounds.....	8,337,761	(2)	(2)
Value.....	\$422,220	(2)	(2)
Stearic—			
Pounds.....	4,029,390	(2)	(2)
Value.....	\$316,252	(2)	(2)
Other.....	\$448,715	\$582,708	\$371,468
Sodas:			
Tons.....	126,520	(2)	(2)
Value.....	\$2,285,759	\$1,502,452	\$122,820
Potashes:			
Pounds.....	91,117		852,200
Value.....	\$5,760		\$34,233
Coal-tar distillery products.....	\$607,514	\$417,196	\$243,000
Compressed or liquefied gases:			
Carbon dioxide—			
Pounds.....	2,588,738	(2)	
Value.....	\$158,888	\$39,358	
All other.....	\$86,653	\$89,992	\$52,905
Fine chemicals.....	\$292,626	\$40,220	\$1,650
Glycerin:			
Pounds.....	6,976,859	7,725,356	5,607,874
Value.....	\$1,140,639	\$862,322	\$691,536
Tin and zinc salts.....	\$412,582		
Other chemicals.....	\$1,159,538	\$519,058	\$125,027
All other products.....	\$374,899	\$536,443	\$1,933,621

¹ Including sulphuric, nitric, and mixed acids and wood distillation products to the value of \$1,018,857 (sulphuric acid, \$527,944; nitric acid, \$72,248; mixed acids, \$414,665; and wood alcohol, \$4,000).

² Figures not available.

Textiles.—Under the heading "Textiles" for Ohio are included woolen, worsted, and felt goods, and wool hats; hosiery and knit goods; cordage and twine and jute and linen goods; cotton goods, including cotton small wares; shoddy; fur-felt hats; carpets and rugs; and silk goods. No detailed statistics regarding materials or products can be given for any of these classes except the first two named, because to give them would disclose individual operations.

Woolen, worsted, and felt goods, and wool hats.—Twenty establishments are engaged in the manufacture of woolen, worsted, and felt goods, and wool hats. The quantity and cost of the principal materials used, and the quantity and value of the principal classes of products reported for this industry at the censuses of 1909, 1904, and 1899, are given in the next table.

The total cost of materials of the industry was \$4,616,029 in 1909, as contrasted with \$1,681,166 in 1899, an increase of 174.6 per cent. The principal gain was in wool. In 1899, 3,262,140 pounds of wool were used, costing \$763,966, and its cost formed 45.4 per cent of the total for all materials, but in 1909, 11,844,168 pounds were used, costing \$3,696,495, and its cost formed 80.1 per cent of the total for all mate-

rials. The percentages of increase for the decade were 263.1 in quantity and 383.9 in value. The quantity of raw cotton and cotton yarn used was smaller in 1909 than in 1904 or in 1899, while the cost in 1909 was smaller than in 1904 but considerably larger than in 1899. Shoddy, rags, and wool waste and noils showed an increase in value at each census, yet the quantities increased between 1899 and 1904 but decreased slightly between 1904 and 1909. Chemicals and dyestuffs decreased from 1904 to 1909 but fuel and rent of power shows substantial increases at each census.

MATERIAL OR PRODUCT.	1909	1904	1899
Materials used, total cost	\$4,616,029	\$2,137,265	\$1,681,166
Wool, in condition purchased:			
Pounds.....	11,844,168	4,624,306	3,262,140
Cost.....	\$3,696,495	\$1,307,279	\$763,966
Equivalent of above in scoured condition, pounds.....	8,892,416	2,782,632	2,008,188
Raw cotton and cotton yarn, purchased:			
Pounds.....	524,430	751,594	647,347
Cost.....	\$110,353	\$158,279	\$84,079
Shoddy, rags, and wool waste and noils:			
Pounds.....	1,849,452	1,897,315	1,372,028
Cost.....	\$260,771	\$230,243	\$178,492
Chemicals and dyestuffs.....	\$222,866	\$41,230	\$65,646
Fuel and rent of power.....	\$61,360	\$48,438	\$26,780
All other materials.....	\$264,184	\$351,796	\$562,203
Products, total value	\$7,690,149	\$3,586,528	\$2,826,321
All-wool woven goods:			
Square yards.....	8,620,943	4,647,996	3,555,955
Value.....	\$5,599,871	\$2,461,059	\$1,517,238
Cotton-mixed and cotton-warp goods:			
Square yards.....	1,399,475	916,499	1,588,329
Value.....	\$691,262	\$417,076	\$737,898
All other products.....	\$1,399,016	\$708,393	\$571,185

The total value of products increased from \$2,826,321 in 1899 to \$3,586,528 in 1904 and to \$7,690,149 in 1909, a gain of 26.9 per cent for the earlier five-year period and of 114.4 per cent for the later. The important increase was in all-wool woven goods, which increased in value from about one and one-half million dollars in 1899 to about five and one-half million in 1909. Cotton-mixed and cotton-warp goods, although of smaller value in 1909 than in 1899, show a considerable increase since 1904.

The quantity of the principal materials used at each of the censuses are shown in the following statement, in which the wool is divided into foreign and domestic:

MATERIAL.	QUANTITY CONSUMED (POUNDS).		
	1909	1904	1899
Wool, in condition purchased			
Foreign.....	11,844,168	4,624,306	3,262,140
Domestic.....	8,740,503	1,458,394	24,825
Total.....	3,103,665	3,165,912	3,237,315
Raw cotton and cotton yarn, purchased	524,430	751,594	647,347
Shoddy purchased and made in mill	1,051,734	1,361,793	1,115,337

The most noticeable feature of this table is the increase in the amount of foreign wool purchased, from 24,825 pounds in 1899 to 1,458,394 pounds in 1904 and to 8,740,503 pounds in 1909. The quantity of foreign wool used in 1909 is thus over three hundred and fifty times greater than the quantity used at the beginning of the decade. All other items showed decreases from 1904 to 1909, and all, excepting domestic wool, increases for the previous five years.

The following table shows the number of spindles, looms, sets of woolen cards, and combing machines reported for this industry at the censuses of 1909, 1904, and 1899:

MACHINE.	1909	1904	1899
Spindles ¹	69,599	34,733	30,400
Looms.....	1,434	756	674
Woolen cards (sets).....	54	69	78
Wool-combing machines.....	27	11	5

¹ Includes producing and doubling and twisting spindles.

Hosiery and knit goods.—The following statement compares the quantity and cost of the different kinds of materials used in the hosiery and knit-goods industry and the quantity and value of the various products for 1909, 1904, and 1899:

MATERIAL OR PRODUCT.	1909	1904 ¹	1899
Materials used, total cost.....	\$3,851,419	\$2,177,368	\$810,401
Yarns, purchased:			
Cotton—			
Pounds.....	4,207,238	1,649,479	432,372
Cost.....	\$1,238,527	\$444,930	\$98,817
Worsted—			
Pounds.....	1,095,829	784,770	455,569
Cost.....	\$1,003,980	\$760,490	\$412,277
Woolen—			
Pounds.....	773,371	327,684	64,823
Cost.....	\$439,977	\$215,232	\$38,346
Merino—			
Pounds.....	843,181	564,372	202,934
Cost.....	\$398,934	\$195,266	\$54,774
All other—			
Pounds.....	66,081	14,262	7,633
Cost.....	\$177,528	\$32,941	\$26,350
Chemicals.....	\$22,591	\$21,730	\$10,688
Fuel and rent of power.....	\$37,563	\$25,461	\$10,323
All other materials.....	\$532,319	\$481,318	\$158,826
Products, total value.....	\$6,433,431	\$3,997,047	\$1,584,754
Hose and half hose:			
Merino or mixed—			
Dozen pairs.....	323,948	239,162	105,000
Value.....	\$504,939	\$321,864	\$128,000
Cotton—			
Dozen pairs.....	72,602	74,840	39,609
Value.....	\$150,464	\$131,142	\$48,079
All other—			
Dozen pairs.....	3,725	97,815	89,107
Value.....	\$8,728	\$156,862	\$136,322
Shirts and drawers:			
Cotton—			
Dozens.....	87,151	82,264	16,806
Value.....	\$166,667	\$228,170	\$45,658
All other—			
Dozens.....	39,154	37,190	22,759
Value.....	\$234,037	\$247,771	\$146,779
Combination suits:			
Cotton—			
Dozens.....	131,186	55,823	11,517
Value.....	\$1,047,775	\$395,058	\$73,052
Merino—			
Dozens.....	58,063	15,643	5,135
Value.....	\$961,771	\$212,879	\$61,088
All other—			
Dozens.....	2,683	4,623	1,515
Value.....	\$66,938	\$111,326	\$2,770
Gloves and mittens:			
Dozen pairs.....	319,522	231,990	273,940
Value.....	\$289,848	\$360,111	\$333,258
Hoods, scarfs, nubias, etc.:			
Dozens.....	272,478	206,024	122,102
Value.....	\$1,064,969	\$482,070	\$304,449
Cardigan jackets, sweaters, fancy jackets, etc.:			
Dozens.....	115,457	(²)	.....
Value.....	\$1,355,728	(²)	.....
All other products.....	\$581,570	\$1,349,794	\$275,299

¹ Excluding statistics for two establishments, to avoid disclosure of individual operations.

² Included in "All other products."

It is to be noted that in materials used the item of greatest importance for 1909 was cotton yarns purchased, which contributed nearly one-third of the total value of all materials used. Worsted yarns was the most important item of cost in 1904 and in 1899.

The increase in value of products for the 10-year period was 306 per cent, the greater part of this oc-

curing during the earlier five-year period, although the statistics for two establishments making hand-knit goods were omitted for 1904.

Conspicuous increases occurred between 1904 and 1909 in the manufacture of combination suits. Cotton combination suits increased 135 per cent in number and 165.2 per cent in value, while merino combination suits increased 271.2 per cent in number and 351.8 per cent in value. All other combination suits, however, decreased 42 per cent in number and 39.9 per cent in value. Hoods, scarfs, nubias, etc., increased 32.3 per cent in number and 120.9 per cent in value.

The manufacture of hose and half hose increased markedly between 1899 and 1904, but between 1904 and 1909 comparatively little change took place in the totals. A considerable change occurred, however, in the relative importance of the different classes of hosiery. The value of merino or mixed hose formed 76 per cent of the total value of the hosiery produced in 1909, as contrasted with 52.8 per cent in 1904. The corresponding percentages for cotton hose were 22.7 in 1909 and 21.5 in 1904. The proportion formed by the value of all other hose decreased from 25.7 per cent in 1904 to 1.3 in 1909. A striking increase occurred between 1904 and 1909 in the number of pairs of merino or mixed hose and half hose produced, but this was more than offset by the decrease in the number of pairs of cotton hose and in the number of pairs of all other kinds.

Gloves and mittens increased considerably in quantity, but there was a decrease in the value reported in 1909 from that given for 1904. This was due principally to the decrease in value of output reported by one establishment.

Eleven establishments made cardigan jackets, sweaters, fancy jackets, etc., in 1909, but as these items were included under "All other products" at prior censuses, no comparative figures can be given. The value of the output in 1909 was so large as to form 21.1 per cent of the total value of products.

The great decrease in "All other products" between 1904 and 1909 was due in great part to the decrease in the output of shawls and fancy knit goods.

The following is a table showing the machinery of the hosiery and knitting mills for 1909, 1904, and 1899:

MACHINE.	1909	1904	1899
Spindles.....	4,670	5,484	3,920
Cards (sets).....	13	11	10
Sewing machines.....	1,880	643	170
Knitting machines.....	2,068	2,308	1,147

The number of knitting machines decreased owing to the elimination of a large number of hand machines, the loss not being counterbalanced by the increase in machines operated by power.

Laundries.—Statistics for steam laundries are not included in the general tables or in the totals for manufacturing industries. In 1909 there were 253 such establishments in the state of Ohio, 22 of which

were in Cleveland, 19 in Toledo, 18 in Cincinnati, 11 in Columbus, 7 in Akron, 6 in Dayton, and 5 in Hamilton. No other city had as many as 5 laundries.

The following statement summarizes the statistics:

Number of establishments.....	253
Persons engaged in the industry.....	6,773
Proprietors and firm members.....	277
Salaried employees.....	603
Wage earners (average number).....	5,893
Primary horsepower.....	7,431
Capital.....	\$3,802,957
Expenses.....	4,425,294
Services.....	2,772,137
Materials.....	871,722
Miscellaneous.....	781,435
Amount received for work done.....	5,388,954

The most common form of ownership was the individual, with 125 establishments. The firm and corporate forms of ownership were represented by 69 and 59 establishments, respectively. Seventy-two establishments had receipts for the year's business of less than \$5,000; 110, receipts of \$5,000 but less than \$20,000; 58, receipts of \$20,000 but less than \$100,000; and 13, receipts of \$100,000 but less than \$1,000,000.

The number of wage earners employed each month and the per cent which this number represented of the greatest number employed in any month were as follows:

MONTH.	WAGE EARNERS.		MONTH.	WAGE EARNERS.	
	Number.	Per cent of maximum.		Number.	Per cent of maximum.
January.....	5,641	92.9	July.....	6,054	99.8
February.....	5,626	92.7	August.....	5,976	98.5
March.....	5,794	95.5	September.....	6,069	100.0
April.....	5,800	95.6	October.....	5,958	98.2
May.....	5,897	97.2	November.....	5,912	97.4
June.....	6,043	99.6	December.....	5,946	98.0

The different kinds of primary power, the number of engines or motors, and the horsepower used in 1909 are shown in the following table:

KIND.	Number of engines or motors.	Horsepower.
Primary power, total.....		7,431
Owned:		
Steam.....	198	6,235
Gas.....	45	737
Water wheels.....	1	35
Water motors.....	1	15
Rented:		
Electric.....	82	401
Other.....		8

The kind and amount of fuel used are shown in the following statement:

KIND.	Unit.	Quantity.
Anthracite coal.....	Tons.....	398
Bituminous coal.....	Tons.....	59,769
Coke.....	Tons.....	77
Wood.....	Cords.....	23
Oil.....	Barrels.....	73
Gas.....	1,000 feet.....	649,446

Custom sawmills and gristmills.—Statistics for custom sawmills and gristmills are not included in the general tables or in the totals for manufacturing industries, but are presented in the following summary:

	Custom sawmills.	Custom gristmills.
Number of establishments.....	202	152
Persons engaged in the industry.....	732	301
Proprietors and firm members.....	340	199
Salaried employees.....	1	7
Wage earners (average number).....	291	95
Primary horsepower.....	5,398	5,125
Capital.....	\$336,846	\$503,988
Expenses.....	138,402	1,034,490
Services.....	107,999	32,860
Materials.....	3,980	1,981,496
Miscellaneous.....	26,423	20,134
Value of products.....	286,189	1,189,853

¹ Includes estimate of all grain ground. A similar estimate for value of lumber sawed by custom sawmills is impracticable.

STATISTICS OF MANUFACTURES.

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TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899.

THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.					Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.							
			Total.	Proprietors and firm members.	Salaried employ-ees.	Wage earners (average number).	Expressed in thousands.														
STATE—All industries	1909	15,138	523,004	14,719	61,351	446,934	1,583,155	\$1,300,733	\$72,147	\$245,450	\$824,202	\$1,437,936	\$613,734								
	1904	13,785	417,946	13,657	39,991	364,298	1,116,932	856,989	43,435	182,429	527,637	960,812	453,175								
	1899	13,868			28,109	308,109	783,665	570,909	28,151	136,428	409,303	748,671	339,368								
Agricultural implements	1909	55	6,972	23	952	5,997	9,867	25,637	1,148	3,155	6,319	14,440	8,121								
	1904	71	6,616	39	918	5,659	8,354	24,302	1,002	2,910	5,692	12,891	7,199								
	1899	78	8,498	58	1,538	6,852	7,836	23,628	1,369	3,271	6,060	13,975	7,915								
Artificial stone	1909	299	1,315	391	122	802	1,325	1,274	74	404	499	1,378	879								
	1904	67	416	92	44	280	347	437	26	135	167	446	279								
	1899																				
Automobiles, including bodies and parts	1909	75	13,458	42	1,286	12,130	14,433	30,892	1,430	7,746	18,522	38,839	20,317								
	1904	22	2,939	8	209	2,722	1,877	4,226	254	1,617	2,553	6,358	3,805								
	1899	3			7	86		68	5	52	60	145	85								
Bags, paper	1909	8	632		75	557	508	1,447	104	240	1,638	2,393	755								
	1904	9	609	3	124	432	1,389	1,306	90	177	955	1,513	558								
	1899	10	278	4	56	218		390	41	68	511	719	208								
Belting and hose, leather	1909	8	164	4	53	107	405	657	95	80	795	1,080	285								
	1904	6	124	1	43	80	307	482	59	48	550	753	203								
	1899	5	137	3	42	92		486	45	48	638	836	198								
Bicycles, motorcycles, and parts	1909	6	1,037	2	93	942	1,895	2,245	95	686	1,066	2,308	1,242								
	1904	3	507		61	446	547	1,132	62	293	457	1,041	584								
	1899	34	2,609	20	209	2,380	2,795	4,075	197	1,017	2,251	4,100	1,849								
Blacking and cleansing and polishing preparations	1909	49	238	53	82	103	297	381	68	50	297	672	375								
	1904	21	83	25	20	38	60	78	18	14	62	152	90								
	1899	15	70	15	13	42		58	18	12	67	157	90								
Boots and shoes, including cut stock and findings	1909	72	17,607	40	1,541	16,026	8,925	16,755	2,125	6,646	18,872	31,551	12,679								
	1904	73	15,091	55	1,004	14,032	6,113	10,434	1,010	5,275	14,989	25,735	10,746								
	1899	92	13,758	97	895	12,766		7,654	966	4,010	11,310	18,246	6,936								
Boxes, cigar	1909	31	600	38	81	531	1,029	464	31	167	360	711	351								
	1904	30	544	36	28	480	506	399	21	136	374	669	295								
	1899	32	586	40	29	517		354	18	151	340	645	305								
Boxes, fancy and paper	1909	46	2,777	32	215	2,530	1,825	2,841	258	830	1,931	3,635	1,704								
	1904	42	1,942	41	163	1,743	827	1,597	156	475	1,072	2,133	1,061								
	1899	35	1,597	38	85	1,474		784	98	382	620	1,408	788								
Brass and bronze products	1909	82	2,650	72	346	2,232	4,214	6,472	418	1,372	3,533	6,572	3,039								
	1904	70	1,719	84	150	1,485	1,860	3,282	181	808	1,545	3,347	1,802								
	1899	46	1,467	53	99	1,315		1,730	111	580	1,039	2,293	1,254								
Bread and other bakery products	1909	1,467	8,758	1,600	1,186	5,972	5,398	11,781	1,099	3,371	13,666	23,007	9,341								
	1904	1,138	7,097	1,247	555	5,295	3,875	8,320	411	2,520	9,059	15,641	6,582								
	1899	956	5,115	1,029	507	3,519		5,057	358	1,529	5,427	9,857	4,430								
Brick and tile	1909	517	8,575	569	540	7,466	37,742	17,315	590	3,527	2,204	9,358	7,154								
	1904	590	7,839	704	416	6,719	33,291	12,049	390	2,942	1,633	7,136	5,503								
	1899	686	6,414	853	208	5,353	22,715	7,344	189	1,967	982	4,630	3,648								
Butter, cheese, and condensed milk	1909	325	2,494	1,216	211	1,067	3,386	2,739	173	557	7,685	9,690	2,005								
	1904	431	867	318	61	488	3,462	1,428	19	292	3,729	4,593	864								
	1899	479	869	391	89	389	2,569	1,041	19	190	3,055	3,809	754								
Butter, reworking	1909	5	73		26	47	423	571	20	31	1,228	1,356	128								
	1904	8	104	6	12	36	451	208	12	59	863	1,054	191								
	1899																				
Canning and preserving	1909	107	2,379	94	276	2,009	4,244	3,494	252	532	3,102	4,660	1,558								
	1904	107	2,484	121	219	2,144	3,580	2,597	192	577	2,701	4,491	1,790								
	1899	97	2,223	113	148	1,962		1,430	120	438	1,931	3,247	1,316								
Carriages and wagons and materials	1909	407	10,350	414	1,121	8,815	14,771	20,398	1,282	4,647	11,414	21,949	10,535								
	1904	456	12,555	495	1,033	11,027	16,936	19,295	1,069	5,269	12,856	24,003	11,147								
	1899	558			954	11,658		17,235	842	5,020	12,181	22,803	10,622								
Cars and general shop construction and repairs by steam-railroad companies	1909	71	22,102		1,374	20,728	19,422	10,654	1,299	12,726	14,266	28,690	14,424								
	1904	74	18,195		1,169	17,026	13,954	7,503	969	9,890	10,225	21,425	11,203								
	1899	91	12,110		576	11,534	6,767	5,701	457	6,087	5,964	12,975	7,011								
Cars and general shop construction and repairs by street-railroad companies	1909	49	1,392		74	1,318	3,635	2,054	65	722	801	1,691	890								
	1904	5	169		19	150	20	128	17	94	55	172	117								
	1899	4	236		7	229		123	5	137	94	249	155								
Cars, steam-railroad, not including operations of railroad companies	1909	6	2,477		195	2,282	4,410	11,037	545	1,304	4,195	6,451	2,256								
	1904	5	2,148		83	2,065	1,725	3,298	135	1,198	3,358	5,539	2,181								
	1899	5	1,866		61	1,805	1,665	2,582	76	862	2,792	3,942	1,150								
Cars, street-railroad, not including operations of railroad companies	1909	4	823		89	734	2,875	2,842	124	471	1,094	1,955	861								
	1904	4	835		70	765	1,850	1,748	93	475	1,069	1,828	759								
	1899	3	290		2	275		253	12	153	231	538	307								
Cement	1909	9	978		91	887	12,685	4,732	140	544	638	1,465	827								
	1904	12	831		3	85	9,579	3,595	125	452	534	1,508	974								
	1899																				
Chemicals	1909	33	1,346		17	197	1,132	11,715	324	749	4,748	7,742	2,994								
	1904	18	1,304		10	269	1,025	6,169	400	652	3,003	4,590	1,587								
	1899	35	794		21	164	609	1,280	199	340	2,084	3,576	1,492								

1 Not reported separately.
 2 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 3 Excluding statistics for one establishment, to avoid disclosure of individual operations.

SUPPLEMENT FOR OHIO.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
STATE—Continued.													
Clocks and watches, including cases and materials.	1909	9	1,534	2	76	1,456	877	\$4,232	\$91	\$784	\$526	\$1,981	\$1,455
	1904	6	1,803		91	1,712	649	2,650	104	851	714	1,889	1,155
	1899	5			47	1,271		743	59	589	475	1,467	992
Clothing, men's, including shirts.....	1909	342	11,813	405	1,468	9,950	1,794	14,432	1,691	4,050	12,920	24,869	11,949
	1904	357	8,590	464	941	7,185	1,315	12,263	1,022	2,749	9,937	19,346	9,409
	1899	563			865	7,129		11,008	842	2,284	9,470	17,312	7,842
Clothing, women's.....	1909	153	10,191	174	1,174	8,843	1,505	8,151	1,653	4,272	10,291	19,493	9,202
	1904	143	7,191	179	633	6,379	1,363	4,796	657	2,724	6,769	12,804	6,035
	1899	126	5,324	159	348	4,817	613	2,866	384	1,518	4,449	7,773	3,324
Coffee and spice, roasting and grinding..	1909	39	1,586	25	799	762	2,186	5,400	812	352	8,277	11,224	2,947
	1904	28	1,139	15	532	592	1,680	6,932	485	221	7,626	9,958	2,332
	1899	26	969	18	273	678		2,376	208	230	4,709	5,850	1,141
Coffins, burial cases, and undertakers' goods.	1909	24	1,475	11	219	1,245	2,289	3,724	266	525	1,324	9,061	1,737
	1904	19	1,309	17	128	1,164	1,454	2,645	167	537	1,176	2,524	1,348
	1899	14	1,112	11	117	984		2,073	138	410	872	1,801	929
Coke.....	1909	4	259		13	246	1,250	1,238	18	120	640	851	211
	1904	4	126	1	12	113	350	584	13	54	170	259	89
	1899	5	85		14	71	55	85	19	33	138	255	117
Confectionery.....	1909	114	3,012	103	416	2,493	2,005	3,416	443	840	4,089	7,307	3,218
	1904	70	2,054	81	223	1,750	891	1,764	195	526	2,272	4,712	2,440
	1899	55			235	1,357		1,456	178	396	2,004	3,825	1,821
Cooperage and wooden goods, not elsewhere specified.	1909	113	1,911	118	130	1,663	3,453	2,911	161	803	2,216	3,516	1,300
	1904	120	1,968	120	125	1,723	3,096	2,350	149	823	1,968	3,550	1,591
	1899	141			80	1,800		1,752	84	725	1,354	2,612	1,258
Copper, tin, and sheet-iron products....	1909	221	7,685	195	892	6,598	6,352	21,685	961	3,163	11,622	19,086	7,464
	1904	180	4,626	196	460	3,970	3,779	11,223	530	1,746	5,341	9,414	4,073
	1899	147			212	2,674		3,086	205	1,025	3,206	5,377	2,171
Cordage and twine and jute and linen goods.	1909	8	848	3	54	791	3,225	2,743	81	313	1,984	2,728	744
	1904	18	1,140		70	1,070	3,285	2,306	104	361	2,518	3,250	732
	1899	19	1,101	2	47	1,052		2,148	54	318	2,326	2,958	632
Cutlery and tools, not elsewhere specified.	1909	70	3,335	49	466	2,820	6,567	7,768	521	1,518	1,650	5,036	3,386
	1904	58	2,763	44	252	2,467	4,836	4,897	258	1,116	1,256	3,567	2,311
	1899	59			184	1,587		2,501	186	767	870	2,441	1,571
Dairymen's, poulterers', and apiarists' supplies.	1909	18	589	19	91	479	916	1,041	72	262	527	1,149	622
	1904	15	444	15	68	361	662	583	48	167	419	852	433
Electrical machinery, apparatus, and supplies.	1909	115	9,605	49	1,483	8,073	11,959	23,706	1,529	3,847	7,226	18,777	11,551
	1904	92	6,187	50	1,023	5,114	7,138	10,408	1,079	2,268	4,699	11,019	6,320
	1899	64	4,196	29	394	3,773	5,123	7,036	399	1,502	3,339	6,505	3,166
Explosives.....	1909	11	424		66	358	2,692	2,248	102	204	1,104	1,719	615
	1904	16	513	2	83	428	4,075	2,868	126	236	1,275	1,843	568
	1899	9	411	3	56	352	2,738	1,972	93	179	773	1,330	557
Fertilizers.....	1909	27	1,064	13	210	841	3,059	4,950	237	368	2,535	4,435	1,900
	1904	17	604	8	106	490	2,630	3,551	136	235	1,336	2,289	903
	1899	27	506	26	80	400	2,168	1,888	104	174	1,017	1,657	640
Firearms and ammunition.....	1909	5	910		97	813	1,129	2,225	164	318	1,291	2,215	924
	1904	24	786		45	741	1,063	1,658	73	275	1,220	1,920	700
	1899	3	405	2	32	371		676	40	111	565	832	267
Flags, banners, regalia, society badges, and emblems.	1909	13	1,572	4	306	1,262	568	2,352	343	523	1,509	3,026	1,517
	1904	16	1,343	14	209	1,120	421	1,660	243	429	1,023	2,257	1,234
	1899	14	1,150	15	161	974		1,027	132	235	1,012	1,796	784
Flour-mill and gristmill products.....	1909	673	4,164	911	668	2,585	52,250	19,963	682	1,415	41,353	48,093	6,740
	1904	694	4,141	1,003	438	2,700	53,880	14,931	422	1,340	35,626	40,856	5,230
	1899	676			339	2,334	49,682	10,773	302	1,170	29,984	35,078	5,094
Foundry and machine-shop products...	1909	1,218	74,887	683	9,387	64,617	112,538	177,745	11,908	38,015	64,560	145,837	81,277
	1904	1,003	59,791	755	6,050	52,986	78,859	117,449	7,170	28,207	44,546	103,713	59,167
	1899	1,007			4,362	50,109		80,899	4,616	24,246	39,052	88,410	49,358
Furniture and refrigerators.....	1909	228	9,449	170	1,047	8,232	15,951	16,251	1,055	4,142	7,242	16,259	9,017
	1904	212	9,677	170	835	8,672	14,490	13,281	837	3,910	5,544	13,827	8,283
	1899	165	7,577	183	671	6,723		9,586	573	2,622	4,042	9,515	5,473
Gas and electric fixtures and lamps and reflectors.	1909	56	1,788	40	311	1,437	2,356	2,577	302	748	1,777	3,563	1,786
	1904	22	801	19	120	662	714	923	145	288	484	1,284	800
	1899	24	823	19	89	715		748	68	241	419	1,046	627
Gas, illuminating and heating.....	1909	38	862	2	194	666	2,165	11,969	181	431	827	3,080	2,253
	1904	58	2,666		427	2,239	2,052	25,081	366	1,083	1,347	4,812	3,465
	1899	73	1,672		283	1,389	1,387	25,017	277	602	885	3,931	3,046
Glass.....	1909	45	10,630	8	463	10,159	16,198	16,201	716	5,977	4,688	14,358	9,670
	1904	37	8,163	10	309	7,844	11,256	9,254	444	4,512	2,837	9,026	6,189
	1899	28	4,754	9	199	4,546	3,721	5,452	249	2,067	1,253	4,547	3,296

¹ Excluding statistics for one establishment, to avoid disclosure of individual operations.

² Excluding statistics for two establishments, to avoid disclosure of individual operations.

STATISTICS OF MANUFACTURES.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
STATE—Continued.													
Grindstones.....	1909	9	1,355	3	75	1,277	5,228	\$4,679	\$147	\$597	\$385	\$1,498	\$1,118
	1904	18	638	4	40	594	2,277	1,582	72	222	143	517	374
	1899	20	1,082	4	50	1,028	.....	674	51	356	207	906	699
Hats and caps, other than felt, straw, and wool.	1909	25	511	38	67	406	83	384	74	174	422	804	382
	1904	21	410	31	30	349	67	207	35	139	272	642	370
	1899	26	734	39	39	656	.....	337	31	224	573	1,004	431
Hosiery and knit goods.....	1909	39	3,412	31	232	3,149	1,613	4,408	391	1,072	3,851	6,433	2,582
	1904	28	2,649	25	134	2,490	1,221	2,380	146	714	2,177	3,997	1,820
	1899	28	1,504	28	56	1,420	550	1,072	55	356	810	1,585	775
Ice, manufactured.....	1909	97	1,176	43	241	892	19,058	8,381	220	559	564	2,270	1,706
	1904	69	692	31	141	520	11,892	4,495	111	296	292	1,217	925
	1899	42	395	17	79	299	6,150	1,777	53	155	138	583	445
Ink, printing.....	1909	8	277	.....	94	183	1,437	1,559	191	131	809	1,907	1,098
	1904	6	185	.....	50	135	732	1,468	97	99	407	1,319	912
	1899	5	132	.....	30	102	.....	686	65	63	375	707	332
Iron and steel, blast furnaces.....	1909	40	8,278	7	976	7,205	215,739	94,533	1,366	5,090	68,425	83,699	15,274
	1904	33	5,829	.....	395	5,434	167,740	43,196	568	3,471	32,477	40,862	8,385
	1899	43	6,342	17	286	6,039	95,040	22,347	342	3,287	23,543	40,367	16,824
Iron and steel, steel works and rolling mills.	1909	75	41,912	3	3,323	38,586	515,813	163,384	4,061	28,614	139,243	197,780	58,537
	1904	57	29,500	.....	1,744	27,756	304,162	87,406	1,931	18,658	78,210	111,997	33,787
	1899	64	28,583	.....	945	27,638	211,621	63,181	1,250	16,444	67,786	98,569	30,788
Jewelry.....	1909	35	481	43	82	356	116	1,191	84	252	610	1,255	636
	1904	16	326	21	43	262	94	472	43	162	229	653	424
	1899	21	.....	.....	35	224	.....	647	25	123	515	864	349
Leather goods.....	1909	86	2,309	90	329	1,980	1,399	4,070	302	879	2,859	4,939	2,080
	1904	94	2,785	99	274	2,412	1,813	4,229	263	1,063	2,931	5,444	2,513
	1899	96	.....	.....	269	2,345	.....	2,809	217	871	2,769	4,559	1,790
Leather, tanned, curried, and finished.	1909	36	2,028	24	120	1,884	4,244	13,759	197	1,083	7,720	10,128	2,408
	1904	40	1,738	34	94	1,610	2,770	6,915	142	839	4,462	6,513	2,051
	1899	58	1,534	76	74	1,384	2,322	5,823	81	617	3,774	5,182	1,408
Lime.....	1909	39	1,403	34	96	1,273	3,872	2,635	129	553	598	1,620	1,022
	1904	41	1,012	32	81	809	3,318	1,975	65	381	532	1,334	802
Liquors, distilled.....	1909	17	434	12	48	374	2,422	4,732	88	230	2,514	12,011	9,497
	1904	23	845	21	197	627	3,617	3,851	166	317	3,410	15,977	12,567
	1899	26	428	29	64	335	2,683	3,000	86	179	1,439	12,447	11,008
Liquors, malt.....	1909	105	5,275	35	884	4,356	31,690	57,748	1,633	3,267	6,563	25,332	18,769
	1904	114	4,540	52	717	3,771	34,970	34,970	1,233	2,802	5,956	21,621	15,665
	1899	111	.....	.....	540	3,391	20,860	25,305	871	2,243	4,201	18,168	13,967
Liquors, vinous.....	1909	29	254	22	83	149	406	1,980	95	79	718	1,304	586
	1904	47	283	43	70	170	677	2,180	77	88	691	1,335	644
	1899	52	236	49	58	179	459	1,622	49	68	429	802	373
Lumber and timber products.....	1909	1,390	16,445	1,560	1,429	13,456	69,255	23,500	1,467	6,701	19,972	34,597	14,625
	1904	1,312	16,380	1,644	1,166	13,570	68,536	24,631	1,087	6,594	17,733	32,926	15,193
	1899	1,656	.....	.....	864	16,502	71,085	19,136	715	6,548	17,116	32,812	15,696
Marble and stone work.....	1909	198	2,520	229	279	2,012	7,070	3,505	296	1,161	1,450	3,847	2,397
	1904	123	3,436	139	262	3,035	9,998	6,725	320	1,626	1,732	4,863	3,131
	1899	184	.....	.....	184	2,097	.....	2,396	148	1,038	1,131	3,058	1,927
Mattresses and spring beds.....	1909	38	1,145	34	150	961	2,069	2,935	183	435	1,682	3,307	1,625
	1904	35	793	42	88	663	1,798	1,682	117	275	1,392	2,296	904
	1899	31	.....	.....	49	441	.....	323	36	156	579	975	396
Millinery and lace goods.....	1909	31	1,605	30	218	1,357	603	1,334	223	478	1,459	2,744	1,285
	1904	17	519	21	42	456	132	286	28	141	283	596	308
	1899	20	441	30	19	392	.....	221	12	96	324	548	224
Models and patterns, not including paper patterns.	1909	74	564	95	28	441	673	316	27	294	159	670	511
	1904	61	379	77	19	283	631	271	19	174	58	386	323
	1899	65	411	80	11	320	.....	234	10	170	76	407	331
Musical instruments, pianos and organs and materials.	1909	30	1,987	16	130	1,841	2,254	3,593	172	1,092	1,922	3,926	2,004
	1904	26	2,336	10	116	2,210	2,153	3,357	150	1,205	1,625	3,684	2,059
	1899	18	844	20	53	771	1,008	1,349	61	358	710	1,451	741
Oil, linseed.....	1909	4	258	.....	45	213	1,347	2,552	56	83	3,081	3,627	546
	1904	4	90	.....	17	71	950	900	27	50	2,135	2,400	265
	1899	7	172	.....	25	147	.....	1,987	49	76	2,889	3,115	226
Paint and varnish.....	1909	87	2,587	39	1,013	1,535	5,572	11,757	1,377	904	8,570	13,617	5,047
	1904	75	1,635	40	484	1,111	4,275	7,906	600	581	5,855	8,530	2,675
	1899	65	1,419	62	515	842	2,445	5,502	636	414	4,115	6,704	2,589
Paper and wood pulp.....	1909	47	4,972	3	296	4,673	51,402	20,970	596	2,419	10,898	16,965	6,067
	1904	53	4,108	3	222	3,883	36,288	14,433	327	1,688	6,154	10,962	4,808
	1899	51	3,399	19	196	3,184	28,517	7,873	278	1,118	3,769	6,544	2,775

¹ Excluding statistics for two establishments, to avoid disclosure of individual operations.

² Excluding statistics for one establishment, to avoid disclosure of individual operations.

³ Not reported separately.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
STATE—Continued.													
Paper goods, not elsewhere specified	1909	28	2,264	19	205	2,040	1,909	\$5,605	\$312	\$882	\$3,434	\$6,307	\$2,873
	1904	23	2,403	10	344	2,049	2,020	4,877	288	653	1,836	3,973	2,137
	1899	14	804	11	49	744	-----	1,066	76	244	1,383	2,691	1,303
Patent medicines and compounds and druggists' preparations.	1909	261	2,068	236	927	905	1,568	4,072	800	385	1,888	5,859	3,971
	1904	196	1,803	196	561	1,046	1,255	3,832	574	386	1,054	7,371	5,253
	1899	159	1,469	188	412	869	-----	2,978	428	287	1,445	4,842	3,397
Petroleum, refining	1909	10	2,039	-----	380	1,659	4,324	11,152	412	1,028	8,145	10,754	2,609
	1904	12	2,116	-----	216	1,900	4,386	10,385	266	1,054	7,662	10,949	3,287
	1899	9	1,227	2	217	1,008	2,491	10,913	234	552	6,177	8,397	2,220
Photo-engraving	1909	20	370	12	81	277	215	266	85	242	109	576	467
	1904	11	240	9	51	180	159	137	37	146	36	321	285
	1899	18	250	14	36	200	-----	117	26	97	47	232	185
Pottery, terra-cotta, and fire-clay products.	1909	186	17,751	69	1,163	16,519	26,778	32,167	1,443	8,628	6,461	21,173	14,712
	1904	205	17,072	106	1,047	15,919	24,754	26,360	1,177	7,677	4,823	18,551	13,728
	1899	248	12,913	225	818	11,870	20,051	15,564	766	5,001	3,229	11,851	8,622
Printing and publishing	1909	1,655	22,754	1,480	5,518	15,756	18,417	38,053	5,458	9,355	11,904	41,657	29,753
	1904	1,542	19,288	1,513	3,916	13,859	12,272	26,724	3,585	7,573	8,679	31,327	22,648
	1899	1,340	16,949	1,412	2,329	13,208	-----	20,958	2,105	6,351	6,970	23,833	16,863
Pumps, not including steam pumps	1909	20	1,083	28	158	897	1,322	2,273	144	517	1,271	2,747	1,478
	1904	19	444	21	54	369	633	650	55	192	218	672	454
	1899	30	131	35	13	83	-----	116	12	36	90	193	103
Safes and vaults	1909	10	2,437	1	422	2,014	3,177	5,075	749	1,321	2,162	5,488	3,326
	1904	11	2,342	1	188	2,153	2,316	4,549	454	1,895	2,047	4,895	2,848
	1899	10	1,453	2	124	1,327	-----	3,561	141	679	1,123	2,408	1,285
Salt	1909	8	722	-----	74	648	4,034	1,981	77	361	1,090	1,807	717
	1904	8	592	1	52	539	1,705	1,242	53	235	663	1,168	505
	1899	10	729	3	48	678	1,277	797	42	243	424	1,818	394
Screws, machine	1909	6	363	-----	39	324	915	666	41	204	178	598	420
	1904	4	501	-----	63	438	1,160	1,376	83	226	301	793	492
Sewing machines, cases, and attachments.	1909	4	4,050	1	218	3,831	2,973	4,973	276	2,105	2,518	5,972	3,454
	1904	3	2,007	-----	101	1,906	2,973	4,973	276	2,105	2,518	5,972	3,454
	1899	5	1,463	-----	157	1,306	-----	3,404	208	740	1,446	2,923	1,477
Shoddy	1909	4	469	1	30	438	1,100	1,096	62	200	742	1,257	515
	1904	5	450	3	21	426	1,100	922	37	158	948	1,239	291
	1899	6	509	-----	35	474	1,035	1,398	55	165	1,078	1,479	401
Show cases	1909	14	402	6	47	349	569	535	52	173	307	668	361
	1904	14	518	7	73	438	742	380	74	228	314	749	435
	1899	9	125	13	12	100	-----	80	9	51	81	189	108
Slaughtering and meat packing	1909	158	3,864	154	624	3,086	9,873	12,399	687	1,857	44,347	50,804	6,457
	1904	105	2,750	119	316	2,315	4,434	294	1,355	25,311	29,155	3,844	3,844
	1899	77	2,193	96	313	1,784	-----	5,396	266	823	18,007	20,768	2,761
Soap	1909	44	2,280	25	481	1,774	3,579	12,732	573	827	11,661	17,077	5,416
	1904	43	2,323	21	528	1,774	3,166	17,985	743	681	8,395	11,791	3,396
	1899	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Stoves and furnaces, including gas and oil stoves.	1909	102	8,352	38	1,040	7,274	9,478	15,625	1,201	4,217	6,300	15,358	9,058
	1904	102	7,144	70	565	6,509	6,859	11,251	651	3,634	4,005	10,191	6,186
	1899	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Tin plate and terneplate	1909	4	742	-----	66	676	1,849	1,063	76	449	7,155	7,889	734
	1904	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	1899	12	736	1	38	697	580	1,153	33	395	5,012	6,023	1,011
Tobacco manufactures	1909	1,146	14,681	1,269	781	12,631	1,401	11,070	980	4,505	12,075	28,907	16,832
	1904	1,329	13,280	1,483	622	11,175	1,011	15,647	533	3,912	7,500	20,489	12,989
	1899	1,148	11,958	1,291	534	10,133	1,127	6,661	606	3,406	5,635	16,993	11,358
Umbrellas and canes	1909	15	371	15	69	287	82	565	69	105	607	1,005	398
	1904	12	369	9	80	280	111	502	76	88	488	833	345
	1899	14	-----	49	288	-----	-----	296	32	88	206	496	200
Wall plaster	1909	23	340	10	71	259	1,823	679	76	106	434	935	501
	1904	27	548	10	72	466	1,730	1,124	62	225	382	1,037	655
	1899	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Woolen, worsted, and felt goods, and wool hats.	1909	20	2,711	23	122	2,566	6,504	7,159	207	925	4,616	7,690	3,074
	1904	27	1,886	38	75	1,776	3,178	3,585	92	563	2,137	3,587	1,450
	1899	38	-----	84	1,234	-----	-----	2,710	95	384	1,681	2,826	1,145
All other industries	1909	1,586	62,913	1,350	8,401	53,162	119,187	150,018	9,194	27,364	103,264	185,872	82,608
	1904	1,333	45,919	1,218	4,690	40,011	75,058	93,881	5,053	18,444	61,156	105,787	44,631
	1899	1,528	-----	-----	3,502	34,189	-----	68,609	3,541	14,168	48,060	85,884	37,824

¹ Excluding statistics for one establishment, to avoid disclosure of individual operations.² Not reported separately.³ Figures can not be shown without disclosing individual operations.

STATISTICS OF MANUFACTURES.

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TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

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

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
AKRON—All industries.....	1909	246	19,023	159	3,033	15,831	36,263	\$58,216	\$3,004	\$8,936	\$43,071	\$73,158	\$30,087
	1904	186	10,706	128	952	9,626		28,638	1,115	4,893	20,410	33,559	13,149
	1899	178			1,093	8,259		23,725	992	3,615	12,720	22,016	9,296
Artificial stone.....	1909	10	51	16	5	30	16	31	3	15	15	41	26
	1904	3	31	7	2	22		17	2	11	8	36	28
	1899												
Bread and other bakery products.....	1909	25	145	23	32	90	105	161	23	58	255	417	162
	1904	12	42	12	30	30		33		18	47	76	29
	1899	19	61	18	9	34		27	4	10	52	95	43
Brick and tile.....	1909	3	96	3	8	85	345	116	7	43	40	141	101
	1904	4	73	3	7	63		142	4	32	35	100	65
	1899	3	82	6	4	72		85	3	29	18	76	58
Carriages and wagons and materials.....	1909	7	137	8	14	115	357	442	15	68	78	236	158
	1904	10	182	12	11	159		407	15	88	142	293	151
	1899	7			17	156		205	17	73	91	223	132
Foundry and machine-shop products...	1909	26	1,061	12	80	969	2,015	3,008	106	650	1,062	2,248	1,186
	1904	20	990	14	54	832		2,924	62	488	1,360	2,368	1,008
	1899	19	1,391	13	207	1,171		3,540	155	609	746	2,095	1,349
Liquors, malt.....	1909	3	110		29	81	1,522	914	86	57	170	645	475
	1904	3	77		14	63		494	28	46	113	405	292
	1899												
Lumber and timber products.....	1909	10	378	8	51	319	989	663	57	191	437	792	355
	1904	8	192	9	24	159		417	22	99	396	602	296
	1899	6	130	10	11	109		210	11	53	82	193	111
Patent medicines and compounds and druggists' preparations.	1909	8	18	9	3	6		19	2	2	9	29	20
	1904	5	10	7	3	3		16		2	5	23	23
	1899	6	13	5	3	5		48	3	1	13	36	23
Pottery, terra-cotta, and fire-clay products.	1909	15	1,162	5	70	1,087	2,557	1,989	87	557	403	1,350	947
	1904	18	1,377	5	73	1,299		2,520	85	644	406	1,718	1,312
	1899	18	953	8	46	900		1,455	42	412	215	867	652
Printing and publishing.....	1909	27	990	16	240	734	934	3,587	167	452	597	2,353	1,756
	1904	20	1,052	12	70	970		2,489	120	523	655	2,835	2,180
	1899	18	1,108	11	148	949		2,412	143	466	562	2,049	1,487
Stoves and furnaces, including gas and oil stoves.	1909	5	396		62	334	610	304	77	228	245	754	509
	1904	3	332	2	28	302		473	34	199	165	468	303
	1899												
Tobacco manufactures.....	1909	7	17	7		10		5		4	6	18	12
	1904	10	26	11		15		7		6	6	22	16
	1899	7	16	7		9		5		4	9	22	13
All other industries.....	1909	100	14,462	52	2,439	11,971	26,813	46,477	2,374	6,611	39,754	64,134	24,380
	1904	70	6,412	34	669	5,709		18,099	743	2,737	17,072	24,608	7,536
	1899	75			649	4,854		15,738	614	1,952	10,932	16,360	5,428
CANTON—All industries.....	1909	204	11,313	129	1,220	9,964	27,016	\$25,342	\$1,347	\$5,719	\$14,044	\$28,583	\$13,939
	1904	158	6,666	131	597	5,938		12,850	636	2,964	4,594	10,691	5,997
	1899	164			504	5,149		9,055	497	2,345	4,349	9,575	5,226
Agricultural implements.....	1909	5	351		68	283	442	1,047	99	127	401	819	418
	1904	5	593	1	67	525		2,421	76	239	533	1,154	621
	1899	6	689	1	102	586		2,474	100	268	539	1,185	646
Brass and bronze products.....	1909	5	35	7	6	22	38	47	2	16	27	55	28
	1904	3	8	5	1	2		13	(^o)	1	4	15	11
Bread and other bakery products.....	1909	19	97	23	15	59	38	90	12	34	147	253	106
	1904	7	54	12		42		40		21	49	90	41
	1899	11	63	15	1	47		35	1	21	59	120	61
Confectionery.....	1909	7	44	7	7	30	18	50	2	10	42	69	27
	1904	3	20	3		17		11		5	11	19	8
	1899												
Cutlery and tools, not elsewhere specified.	1909	5	179		41	138	230	308	46	74	93	258	165
	1904	3	156	3	33	120		165	17	56	90	207	117
	1899	3				51		42		25	15	67	52
Foundry and machine-shop products...	1909	32	2,044	13	283	1,748	3,409	4,578	353	1,005	2,267	4,891	2,624
	1904	25	1,400	16	159	1,225		2,691	199	620	1,298	2,704	1,406
	1899	24			105	877		1,343	87	394	655	1,519	864
Furniture and refrigerators.....	1909	5	208	2	27	179	354	530	32	99	83	296	213
	1904	5	224	1	20	203		386	21	111	105	340	235
	1899	5	264	1	27	236		382	34	111	87	352	265
Leather goods.....	1909	3	305	2	36	267	131	468	34	116	339	549	210
	1904	3	69	3	10	56		89	11	27	54	117	63
	1899	3			12	201		161	11	59	212	322	110

¹ Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.

² Not reported separately.

³ Excluding statistics for two establishments, to avoid disclosure of individual operations.

⁴ Figures can not be shown without disclosing individual operations.

⁵ Excluding statistics for one establishment, to avoid disclosure of individual operations.

⁶ Less than \$500.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
CANTON—Continued.													
Lumber and timber products.....	1909	3	52	1	5	46	180	\$107	\$6	\$29	\$95	\$135	\$40
	1904	10	95	11	4	80	.....	127	3	44	100	202	102
	1899	3	.....	.....	2	36	.....	97	1	15	51	83	32
Printing and publishing.....	1909	17	219	17	41	161	185	326	37	88	78	293	215
	1904	113	160	13	16	131	.....	184	20	74	52	218	166
	1899	111	123	8	12	103	.....	116	12	46	38	144	106
Tobacco manufactures.....	1909	19	93	23	.....	70	.....	33	.....	27	42	106	64
	1904	16	85	17	1	67	.....	21	1	33	22	79	57
	1899	15	61	15	3	43	.....	13	1	14	16	54	38
All other industries.....	1909	84	7,686	34	691	6,961	21,991	17,758	724	4,094	11,030	20,859	9,829
	1904	65	3,802	46	286	3,470	.....	6,702	288	1,733	2,276	5,446	3,170
	1899	83	.....	.....	240	2,969	.....	4,392	250	1,392	2,677	6,729	3,052
CINCINNATI—All industries													
	1909	2,184	72,488	2,015	10,281	60,192	88,597	\$150,254	\$12,769	\$31,101	\$101,932	\$194,516	\$92,584
	1904	2,171	68,954	2,180	8,190	58,584	.....	130,272	9,077	27,390	83,258	166,059	82,801
	1899	2,454	.....	.....	6,164	54,942	.....	103,464	6,437	23,104	71,391	141,678	70,287
Bags, paper.....	1909	5	358	.....	59	299	320	673	72	129	730	1,088	358
	1904	5	291	3	91	197	.....	358	47	68	401	581	180
	1899	7	165	4	35	126	.....	189	26	38	324	463	139
Blacking and cleansing and polishing preparations.	1909	14	92	21	33	38	34	90	24	14	112	255	143
	1904	8	34	10	7	17	.....	32	6	5	35	77	42
	1899	4	20	2	5	13	.....	20	12	3	19	56	37
Boots and shoes, including cut stock and findings.	1909	32	8,702	21	692	7,989	4,631	7,656	1,016	3,518	8,584	14,999	6,415
	1904	35	7,178	32	502	6,644	.....	4,661	535	2,563	6,294	11,152	4,858
	1899	46	.....	.....	385	6,747	.....	3,671	489	2,132	5,180	8,626	3,446
Boxes, cigar.....	1909	8	248	10	16	222	405	213	17	82	177	347	170
	1904	6	210	8	13	189	.....	193	11	57	238	371	133
	1899	8	264	11	13	240	.....	188	9	70	216	354	138
Boxes, fancy and paper.....	1909	15	738	9	60	669	218	442	70	185	292	679	387
	1904	14	692	14	39	639	.....	374	35	153	234	509	275
	1899	12	581	14	24	543	.....	202	32	134	153	426	273
Brass and bronze products.....	1909	14	635	12	60	563	424	1,304	80	329	385	996	611
	1904	17	668	25	56	587	.....	1,038	60	309	465	1,108	643
	1899	14	563	20	27	516	.....	458	23	206	312	680	368
Bread and other bakery products.....	1909	187	1,768	186	242	1,340	909	2,653	237	723	3,034	5,103	2,089
	1904	199	1,628	198	116	1,314	.....	2,012	88	592	2,311	3,892	1,581
	1899	258	1,548	275	172	1,101	.....	1,505	113	461	1,671	3,048	1,377
Brick and tile.....	1909	7	114	7	8	99	280	100	7	41	13	94	81
	1904	11	95	14	1	80	.....	94	1	38	13	80	67
	1899	12	73	19	.....	54	.....	26	.....	31	12	66	54
Canning and preserving.....	1909	9	315	5	93	217	420	646	105	77	483	825	342
	1904	7	495	5	73	417	.....	456	87	129	765	1,262	497
	1899	8	305	8	33	264	.....	348	53	107	600	1,077	477
Carriages and wagons and materials.....	1909	74	2,677	64	363	2,250	2,523	4,477	381	1,295	3,702	6,825	3,123
	1904	78	3,146	72	369	2,705	.....	4,026	328	1,380	4,576	7,670	3,094
	1899	73	.....	.....	313	2,771	.....	4,278	263	1,419	4,264	7,220	2,956
Cars and general shop construction and repairs by steam-railroad companies.	1909	3	327	.....	13	314	590	398	14	203	111	328	217
	1904	3	474	.....	25	449	.....	211	22	282	199	610	311
	1899	4	478	.....	18	460	.....	156	16	253	148	454	306
Chemicals.....	1909	11	162	4	36	122	508	713	63	76	474	899	425
	1904	9	140	4	37	99	.....	774	51	59	651	958	307
	1899	8	118	4	20	94	.....	534	32	52	692	957	265
Clothing, men's, including shirts.....	1909	183	6,956	237	1,001	5,718	559	10,212	1,212	2,512	8,680	16,975	8,295
	1904	217	5,380	286	774	4,320	.....	9,903	839	1,702	7,756	14,761	7,005
	1899	361	.....	.....	635	4,168	.....	8,462	641	1,419	6,886	12,452	5,566
Clothing, women's.....	1909	26	1,541	41	175	1,325	176	1,230	217	619	1,514	2,913	1,399
	1904	29	1,366	40	155	1,171	.....	1,269	153	457	1,497	2,712	1,215
	1899	38	1,522	53	106	1,363	.....	850	108	399	1,173	2,075	902
Coffee and spice, roasting and grinding..	1909	8	356	7	128	221	691	1,083	131	91	1,595	2,110	515
	1904	10	281	9	102	170	.....	624	96	62	1,432	1,835	403
	1899	10	187	10	68	109	.....	474	71	42	1,160	1,410	256
Confectionery.....	1909	22	922	21	130	771	573	970	139	279	1,222	2,029	807
	1904	15	739	17	69	653	.....	725	65	225	977	1,568	591
	1899	14	.....	.....	83	437	.....	691	73	148	894	1,310	416
Cooperage and wooden goods, not elsewhere specified.	1909	20	697	17	48	632	1,269	1,446	75	292	766	1,232	466
	1904	23	718	25	52	641	.....	1,084	71	318	727	1,350	623
	1899	18	.....	.....	23	662	.....	786	42	258	579	1,021	442
Copper, tin, and sheet-iron products....	1909	37	1,019	30	156	833	1,154	2,019	147	413	1,633	2,775	1,142
	1904	35	1,083	34	131	918	.....	1,516	141	432	1,199	2,348	1,149
	1899	36	.....	.....	70	680	.....	789	59	285	833	1,483	650

¹ Excluding statistics for two establishments, to avoid disclosure of individual operations.

² Excluding statistics for one establishment, to avoid disclosure of individual operations.

STATISTICS OF MANUFACTURES.

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TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employees.	Wage earners (average number).							
CINCINNATI—Continued.													
Cutlery and tools, not elsewhere specified.	1909	9	80	14	11	55	166	\$101	\$13	\$35	\$51	\$136	\$85
	1904	11	116	10	21	85	.....	135	21	45	48	175	127
	1899	10	79	11	11	57	.....	67	11	31	55	135	80
Electrical machinery, apparatus, and supplies.	1909	13	393	9	71	313	397	529	95	200	333	836	503
	1904	13	310	13	54	243	.....	347	60	136	283	621	338
	1899	9	292	8	51	233	.....	321	48	99	590	813	283
Flags, banners, regalia, society badges, and emblems.	1909	8	498	3	92	403	317	668	88	162	503	888	385
	1904	19	399	8	64	327	.....	344	77	114	331	699	368
	1899	17	414	8	64	342	.....	259	46	88	284	620	336
Flour-mill and gristmill products.....	1909	6	84	3	29	52	685	400	33	38	957	1,083	126
	1904	7	122	6	23	93	.....	377	29	40	810	973	163
	1899	6	.....	.....	16	61	.....	272	21	30	671	781	110
Foundry and machine-shop products...	1909	200	10,110	120	1,456	8,534	12,590	21,400	1,876	4,985	7,044	18,380	11,336
	1904	186	9,437	126	1,131	8,180	.....	17,240	1,298	4,254	6,309	15,958	9,649
	1899	194	.....	.....	864	8,106	.....	12,439	846	3,895	6,431	14,557	8,126
Furniture and refrigerators.....	1909	60	2,306	67	213	2,026	3,499	3,024	263	1,071	1,727	4,062	2,335
	1904	162	3,068	70	292	2,700	.....	4,312	283	1,327	1,962	4,821	2,859
	1899	54	2,667	72	240	2,355	.....	3,817	216	966	1,564	3,594	2,030
Hats and caps, other than felt, straw, and wool.	1909	12	323	20	43	260	33	264	45	112	284	532	248
	1904	11	288	17	20	251	.....	125	28	87	181	424	243
	1899	12	326	20	21	285	.....	136	17	86	241	447	206
Hosiery and knit goods.....	1909	6	231	5	6	220	192	426	16	84	257	442	185
	1904	25	290	8	11	271	.....	372	18	77	233	471	233
	1899	9	248	10	1	237	.....	413	4	69	127	275	148
Ice, manufactured.....	1909	8	168	1	38	129	3,229	1,851	51	81	124	385	261
	1904	10	133	1	23	109	.....	1,146	27	68	100	332	232
	1899	5	46	1	8	37	.....	148	8	19	26	81	55
Jewelry.....	1909	15	284	25	49	210	88	1,002	52	156	518	936	418
	1904	11	271	17	39	215	.....	452	40	132	189	548	359
	1899	13	.....	.....	34	177	.....	616	25	99	486	790	304
Leather goods.....	1909	16	659	20	106	533	230	1,475	101	277	790	1,499	709
	1904	116	625	24	87	514	.....	874	85	271	725	1,407	682
	1899	19	.....	.....	113	622	.....	909	99	270	844	1,435	591
Leather, tanned, curried, and finished.	1909	13	1,043	10	36	997	2,269	9,503	71	570	3,677	5,059	1,382
	1904	10	1,021	11	34	976	.....	4,640	63	510	2,285	3,005	1,120
	1899	15	986	18	25	943	.....	4,865	37	412	2,490	3,447	957
Liquors, distilled.....	1909	4	300	.....	29	271	1,750	2,834	63	178	1,824	8,745	6,921
	1904	4	459	2	46	411	.....	1,658	68	206	2,266	9,610	7,344
	1899	3	199	2	34	163	.....	1,523	55	98	1,034	9,420	8,386
Liquors, malt.....	1909	22	1,858	.....	280	1,578	11,416	15,464	614	1,168	2,173	8,874	6,701
	1904	21	1,520	1	232	1,287	.....	14,357	462	938	1,884	7,703	5,819
	1899	21	1,481	6	193	1,282	.....	11,371	351	911	1,403	6,387	4,984
Liquors, vinous.....	1909	5	16	7	1	8	6	57	1	5	19	40	21
	1904	5	15	7	.....	8	.....	63	.....	4	19	41	22
	1899	5	17	6	3	8	.....	26	3	4	15	34	19
Lumber and timber products.....	1909	45	1,866	30	215	1,621	6,808	6,560	291	863	2,887	5,021	2,134
	1904	43	1,736	48	185	1,503	.....	5,562	210	792	2,627	5,043	2,416
	1899	31	1,430	41	86	1,303	.....	2,393	94	582	1,575	3,408	1,833
Marble and stone work.....	1909	25	340	30	41	269	854	582	50	181	252	632	380
	1904	21	487	30	40	417	.....	517	42	297	373	1,001	628
	1899	22	.....	.....	20	326	.....	416	18	163	236	524	288
Mattresses and spring beds.....	1909	9	203	10	23	165	227	311	22	74	223	394	171
	1904	8	85	8	5	72	.....	89	4	31	138	212	74
	1899	7	.....	.....	12	110	.....	108	6	38	139	236	97
Millinery and lace goods.....	1909	11	494	10	56	428	59	136	49	120	294	547	263
	1904	9	293	10	19	204	.....	134	11	85	158	324	166
	1899	11	263	12	8	243	.....	121	4	66	111	229	118
Models and patterns, not including paper patterns.	1909	9	104	11	4	89	65	70	6	63	54	151	97
	1904	15	96	22	3	71	.....	29	12	43	12	88	76
	1899	20	136	25	3	108	.....	71	3	65	27	149	122
Musical instruments, pianos and organs and materials.	1909	7	760	5	43	712	835	1,185	62	371	1,080	1,753	673
	1904	4	711	.....	32	679	.....	861	51	342	882	1,488	606
	1899	4	538	2	23	513	.....	791	31	226	489	931	442
Paint and varnish.....	1909	24	636	19	209	408	1,356	4,026	282	215	2,486	3,880	1,394
	1904	23	396	18	108	270	.....	3,108	149	148	2,000	2,628	628
	1899	21	400	24	109	267	.....	2,325	139	144	1,522	2,255	733
Paper goods, not elsewhere specified....	1909	6	144	7	24	113	252	319	29	42	205	346	141
	1904	4	49	4	6	39	.....	57	6	12	56	106	50
	1899	4	59	4	9	46	.....	83	6	19	102	176	74
Patent medicines and compounds and druggists' preparations.	1909	50	448	40	206	202	404	953	198	90	497	1,230	733
	1904	37	570	37	168	365	.....	1,207	255	122	439	1,412	973
	1899	50	565	52	160	353	.....	939	180	99	433	1,467	1,084

1 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 2 Excluding statistics for one establishment, to avoid disclosure of individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
CINCINNATI—Continued.													
Pottery, terra-cotta, and fire-clay products.	1909	7	276	3	36	237	370	\$727	\$44	\$118	\$52	\$370	\$318
	1904	8	212	8	35	169	.....	360	33	84	44	278	234
	1899	7	321	7	27	287	.....	413	23	124	62	291	229
Printing and publishing.....	1909	280	5,391	246	1,279	3,866	4,671	8,451	1,379	2,480	3,349	11,519	8,170
	1904	264	5,394	228	1,169	3,997	.....	8,430	1,170	2,317	3,218	10,321	7,103
	1899	233	4,828	237	728	3,863	.....	7,212	728	2,125	2,388	8,193	5,806
Safes and vaults.....	1909	5	703	1	123	579	970	1,156	257	359	630	1,401	771
	1904	4	626	1	68	557	.....	532	110	313	490	1,151	661
	1899	5	490	2	60	428	.....	615	61	206	340	773	433
Show cases.....	1909	3	74	.....	11	63	118	58	12	43	50	116	66
	1904	3	94	1	12	81	.....	78	10	47	74	164	90
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Slaughtering and meat packing.....	1909	55	1,368	69	183	1,116	3,710	4,654	205	669	16,974	19,320	2,346
	1904	48	1,044	63	103	878	.....	2,857	113	522	11,762	13,510	1,748
	1899	227	990	36	98	856	.....	2,893	104	415	8,807	10,370	1,563
Soap.....	1909	16	663	8	164	491	699	1,621	205	193	1,350	2,352	993
	1904	14	805	8	152	645	.....	2,192	238	223	1,519	2,690	1,171
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stoves and furnaces, including gas and oil stoves.	1909	15	1,092	3	217	872	1,086	2,150	209	485	1,013	2,325	1,312
	1904	11	698	6	78	614	.....	873	76	329	365	1,003	638
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tobacco manufactures.....	1909	208	2,929	228	175	2,526	247	2,364	189	988	1,640	4,153	2,513
	1904	253	3,917	281	202	3,434	.....	3,188	182	1,267	2,245	5,748	3,503
	1899	306	4,247	147	205	3,895	.....	2,667	213	1,380	2,265	6,768	4,503
All other industries.....	1909	337	9,017	299	1,494	7,224	13,315	19,608	1,881	3,747	15,099	26,637	11,538
	1904	300	9,049	290	1,116	7,643	.....	24,406	1,220	3,376	9,461	18,960	9,490
	1899	393	.....	.....	908	7,088	.....	21,613	972	2,918	11,578	19,908	8,330
CLEVELAND—All industries..													
	1909	2,148	98,686	1,718	12,240	84,728	199,898	\$227,397	\$15,506	\$48,053	\$154,915	\$271,961	\$117,046
	1904	1,616	72,362	1,445	6,876	64,041	.....	156,321	8,299	33,450	97,578	171,824	74,346
	1899	1,350	.....	.....	5,064	55,341	.....	101,243	5,453	26,518	76,465	139,356	62,891
Artificial stone.....	1909	18	158	19	18	121	158	165	16	76	92	233	141
	1904	5	52	7	7	38	.....	84	6	22	22	60	38
Automobiles, including bodies and parts	1909	32	7,115	20	687	6,408	9,135	16,600	875	4,023	10,417	21,404	10,687
	1904	10	1,949	3	146	1,800	.....	3,095	194	1,027	2,030	4,624	2,504
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Blacking and cleansing and polishing preparations.	1909	19	100	16	33	51	55	231	36	29	159	355	196
	1904	7	29	8	9	12	.....	26	7	6	17	44	27
	1899	3	8	4	1	3	.....	2	(^c)	2	4	13	9
Boots and shoes, including cut stock and findings.	1909	6	631	8	66	557	304	467	84	225	510	951	441
	1904	4	578	10	27	541	.....	327	23	195	398	786	388
	1899	8	.....	.....	28	472	.....	319	29	126	492	765	273
Boxes, cigar.....	1909	5	78	5	4	69	27	57	6	19	43	97	54
	1904	4	63	6	3	54	.....	55	2	16	33	66	33
	1899	4	52	6	4	42	.....	30	2	11	25	48	23
Boxes, fancy and paper.....	1909	6	790	.....	51	739	647	824	68	266	627	1,141	514
	1904	6	359	4	34	321	.....	404	27	112	199	421	222
	1899	5	329	4	11	314	.....	128	12	88	99	270	171
Brass and bronze products.....	1909	28	931	23	107	801	872	2,737	121	518	1,362	2,568	1,266
	1904	19	636	21	54	561	.....	1,576	70	310	745	1,480	705
	1899	12	483	16	38	429	.....	596	47	235	362	931	569
Bread and other bakery products.....	1909	198	1,696	201	266	1,229	14	2,601	312	804	2,722	4,731	2,009
	1904	138	1,451	130	91	1,230	.....	1,881	81	611	1,719	2,982	1,263
	1899	104	773	103	118	552	.....	724	85	285	892	1,525	633
Brick and tile.....	1909	13	583	9	28	546	1,965	961	43	286	213	769	556
	1904	8	268	11	5	252	.....	363	9	141	84	346	262
	1899	9	.....	.....	3	196	.....	276	2	112	59	263	204
Carriages and wagons and materials.....	1909	33	330	38	25	267	175	429	25	182	142	462	320
	1904	32	409	41	25	343	.....	374	28	203	189	549	360
	1899	36	.....	.....	25	375	.....	410	18	200	215	574	359
Cars and general shop construction and repairs by steam-railroad companies.	1909	6	1,473	.....	101	1,372	1,640	1,075	99	843	1,077	2,056	979
	1904	6	1,408	.....	95	1,313	.....	490	76	757	823	1,681	858
	1899	7	1,229	.....	74	1,155	.....	564	55	609	514	1,210	696
Chemicals.....	1909	5	557	.....	88	469	1,840	1,572	141	307	978	1,866	888
	1904	5	708	3	199	506	.....	809	301	308	671	1,373	702
	1899	6	471	1	114	356	.....	2,156	139	204	910	1,729	819
Clothing, men's, including shirts.....	1909	93	3,166	110	311	2,745	346	3,319	374	1,096	3,203	5,953	2,750
	1904	70	1,659	93	84	1,482	.....	1,595	122	642	1,366	2,979	1,613
	1899	118	1,734	156	111	1,467	.....	1,815	119	481	1,871	3,410	1,539

¹ Figures can not be shown without disclosing individual operations.

² Excluding statistics for two establishments, to avoid disclosure of individual operations.

³ Not reported separately.

⁴ Excluding statistics for one establishment, to avoid disclosure of individual operations.

⁵ Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.

⁶ Less than \$500.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
CLEVELAND—Continued.													
Clothing, women's.....	1909	96	6,226	100	708	5,418	771	\$4,941	\$1,126	\$2,903	\$6,496	\$12,789	\$6,293
	1904	78	3,864	102	368	3,394	.....	2,583	390	1,682	3,796	7,428	3,632
	1899	77	2,671	91	218	2,362	.....	1,698	221	842	2,445	4,213	1,768
Confectionery.....	1909	16	908	10	95	803	679	1,294	150	253	1,553	2,852	1,299
	1904	8	449	11	26	412	.....	511	44	106	558	1,715	1,157
	1899	10	.....	.....	36	437	.....	349	33	108	550	1,499	949
Cooperage and wooden goods, not elsewhere specified.	1909	10	289	9	19	261	533	500	36	136	471	708	237
	1904	9	187	10	10	167	.....	209	23	89	234	392	158
	1899	5	.....	.....	8	178	.....	249	17	73	102	224	122
Copper, tin, and sheet-iron products....	1909	37	1,531	32	135	1,364	1,231	4,782	183	640	1,628	2,966	1,338
	1904	19	477	19	53	405	.....	699	62	213	293	724	431
	1899	17	.....	.....	27	503	.....	669	29	214	344	705	361
Cutlery and tools, not elsewhere specified.	1909	15	1,662	11	207	1,444	3,246	4,097	228	759	665	2,395	1,730
	1904	8	871	7	57	807	.....	1,887	81	389	452	1,224	772
	1899	8	634	7	59	568	.....	984	56	260	265	890	625
Electrical machinery, apparatus, and supplies.	1909	40	1,899	20	301	1,578	1,980	3,308	346	760	1,780	4,036	2,256
	1904	30	1,463	18	210	1,235	.....	1,893	218	548	1,099	2,663	1,554
	1899	25	.....	.....	151	1,467	.....	2,220	144	602	1,278	2,552	1,274
Foundry and machine-shop products....	1909	231	20,348	121	2,312	17,915	24,204	41,610	3,134	10,485	15,324	37,443	22,119
	1904	164	14,464	98	1,348	13,018	.....	26,163	1,803	7,101	10,017	24,033	14,016
	1899	156	11,939	121	864	10,954	.....	13,957	966	5,516	7,847	18,424	10,577
Furniture and refrigerators.....	1909	25	557	19	71	467	578	660	73	288	491	1,069	578
	1904	26	614	18	53	543	.....	606	64	345	461	961	615
	1899	18	499	20	59	420	.....	969	64	213	511	1,030	519
Gas and electric fixtures and lamps and reflectors.	1909	17	409	16	67	326	199	313	96	193	229	654	425
	1904	17	346	6	51	289	.....	391	66	112	192	569	377
	1899	15	242	3	37	202	.....	162	28	76	101	252	151
Hats and caps, other than felt, straw, and wool.	1909	9	132	15	20	97	11	100	26	43	102	199	97
	1904	5	77	9	9	59	.....	71	7	34	56	151	95
	1899	8	352	13	12	327	.....	156	9	123	299	500	201
Hosiery and knit goods.....	1909	13	1,365	12	119	1,234	407	1,894	185	485	1,813	2,957	1,144
	1904	16	1,074	9	40	1,025	.....	926	49	348	1,061	1,957	896
	1899	5	555	7	7	541	.....	239	11	131	387	748	361
Ice, manufactured.....	1909	5	131	1	19	111	3,266	2,149	25	85	103	368	265
	1904	4	52	1	8	43	.....	667	10	33	45	195	150
	1899	4	39	1	12	26	.....	194	11	19	31	95	64
Iron and steel, steel works and rolling mills.	1909	14	8,278	2	738	7,538	60,575	25,087	849	5,150	28,039	38,463	10,424
	1904	9	9,110	.....	533	8,577	.....	23,921	574	4,956	22,772	32,279	9,507
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jewelry.....	1909	15	124	12	10	102	34	115	12	66	62	208	146
	1904	5	55	4	4	47	.....	20	3	30	40	105	65
	1899	5	.....	.....	.....	31	.....	21	.....	15	13	42	29
Leather goods.....	1909	14	153	10	18	125	84	154	17	68	133	271	138
	1904	12	142	7	15	120	.....	98	12	60	89	230	141
	1899	9	.....	.....	15	160	.....	161	10	68	110	242	132
Leather, tanned, curried, and finished..	1909	4	124	1	15	108	422	386	18	69	468	636	168
	1904	4	104	2	12	90	.....	315	13	50	209	302	93
	1899	3	59	5	10	44	.....	171	9	18	105	151	46
Liquors, distilled.....	1909	4	6	5	.....	.....	14	4	.....	1	6	14	8
	1904	4	7	4	.....	.....	.....	17	.....	1	3	13	10
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Liquors, malt.....	1909	11	904	5	155	744	3,395	9,888	358	594	1,484	5,124	3,640
	1904	9	718	5	112	601	.....	5,949	217	503	1,108	3,986	2,878
	1899	10	582	10	95	477	.....	3,788	174	382	840	4,084	3,194
Liquors, vinous.....	1909	4	54	3	23	28	23	194	18	17	136	206	70
	1904	3	9	2	1	6	.....	87	1	4	14	31	17
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lumber and timber products.....	1909	51	1,319	22	150	1,147	5,263	2,380	172	699	2,732	4,021	1,289
	1904	37	1,216	30	102	1,084	.....	1,877	129	622	2,516	3,820	1,304
	1899	35	1,169	34	82	1,053	.....	1,255	85	466	1,083	2,055	972
Marble and stone work.....	1909	18	367	19	33	315	789	409	34	192	197	468	271
	1904	7	199	8	13	178	.....	296	17	116	106	297	191
	1899	10	.....	.....	12	210	.....	231	14	148	146	375	229
Mattresses and spring beds.....	1909	6	173	4	19	150	178	209	18	71	208	365	157
	1904	3	127	.....	15	112	.....	95	16	47	140	239	99
	1899	4	156	2	17	137	.....	71	15	55	165	286	121
Millinery and lace goods.....	1909	6	536	4	60	472	143	459	83	190	726	1,206	480
	1904	5	88	6	8	69	.....	75	10	20	58	117	59
	1899	8	174	16	11	147	.....	88	8	30	200	299	99

1 Excluding statistics for one establishment, to avoid disclosure of individual operations.
 2 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 3 Not reported separately.
 4 Figures can not be shown without disclosing individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
CLEVELAND—Continued.													
Models and patterns, not including paper patterns.	1909	21	229	23	16	190	213	\$95	\$18	\$123	\$51	\$251	\$200
	1904	15	124	18	5	101	70	87	10	70	20	143	123
	1899	13	135	14	4	117	75	75	6	55	22	123	101
Musical instruments, pianos and organs and materials.	1909	3	52		10	42	75	126	13	32	29	93	64
	1904	3	81		9	72	75	118	12	44	39	134	95
	1899												
Paint and varnish	1909	24	1,253	5	493	760	2,624	5,393	704	468	3,889	6,138	2,249
	1904	20	797	7	215	575	2,624	3,161	245	304	2,625	3,700	1,075
	1899	16	691	12	283	391	2,624	1,805	364	182	1,737	2,902	1,165
Patent medicines and compounds and druggists' preparations.	1909	50	322	56	141	125	66	429	124	62	316	1,010	694
	1904	30	149	31	66	52	66	274	66	21	132	426	294
	1899	10	79	8	29	42	66	147	31	19	84	214	130
Photo-engraving	1909	3	84	1	25	58	23	48	29	50	36	144	108
	1904	4	87	2	19	66	23	48	14	53	10	125	115
	1899	3	45	2	8	35	23	16	6	17	5	44	39
Printing and publishing	1909	245	4,671	171	1,896	3,104	3,328	6,944	1,505	2,009	2,780	9,635	6,855
	1904	184	3,291	164	836	2,291	3,328	3,947	884	1,409	1,686	6,140	4,454
	1899	127	2,536	119	450	1,967	3,328	3,227	473	1,120	1,325	4,349	3,024
Slaughtering and meat packing	1909	35	1,336	28	232	1,076	2,570	3,555	260	599	15,399	17,192	1,793
	1904	19	1,128	15	135	978	2,570	2,276	121	566	9,338	10,616	1,278
	1899	10	757	7	173	577	2,570	1,827	136	235	6,759	7,514	755
Soap	1909	6	57	2	14	41	143	108	16	26	148	214	66
	1904	6	75	1	25	49	143	111	21	26	108	205	97
	1899												
Stoves and furnaces, including gas and oil stoves.	1909	20	2,097	7	247	1,843	1,899	4,093	281	1,155	2,286	4,977	2,691
	1904	17	1,677	11	139	1,527	1,899	3,900	169	857	1,535	3,005	1,470
	1899												
Tobacco manufactures	1909	254	2,234	277	91	1,866	29	926	135	734	1,047	2,769	1,722
	1904	257	1,732	270	73	1,889	29	1,116	69	581	646	1,916	1,270
	1899	117	1,124	190	51	943	29	455	53	348	410	1,261	851
Umbrellas and canes	1909	5	98	5	24	69	12	114	27	25	143	253	110
	1904	4	79	5	20	54	12	103	17	16	136	249	113
	1899												
Wall plaster	1909	3	64		8	56	270	112	12	32	123	205	82
	1904	3	49		4	45	270	115	6	25	66	145	79
	1899												
All other industries	1909	356	21,081	241	2,464	18,376	63,443	69,483	2,995	9,917	42,277	67,076	24,799
	1904	277	17,816	208	1,503	16,105	63,443	60,630	1,910	7,719	27,737	44,308	16,571
	1899	320			1,802	25,664	63,443	59,106	1,972	12,830	43,858	73,595	29,737
COLUMBUS—All industries													
	1909	586	20,523	435	3,660	16,428	35,780	\$48,747	\$3,781	\$8,892	\$25,204	\$49,032	\$23,828
	1904	459	17,127	422	2,355	14,350	35,780	29,225	2,337	7,287	19,244	39,530	20,288
	1899	408			1,573	13,787	35,780	23,462	1,515	6,028	18,252	34,748	16,496
Artificial stone	1909	5	36	4	7	25	38	38	5	17	23	57	34
	1904	3	27	2	4	21	38	29	2	10	14	33	19
	1899												
Boots and shoes, including cut stock and findings.	1909	8	2,791	4	308	2,479	845	3,181	387	1,076	3,224	5,436	2,212
	1904	8	2,457	1	150	2,306	845	2,245	191	926	3,055	5,425	2,370
	1899	8	2,032	1	151	1,830	845	1,695	201	683	2,142	3,505	1,363
Brass and bronze products	1909	5	53	5	4	44	55	76	7	23	65	124	59
	1904	4	16	5	1	10	55	6	(^c)	5	16	28	12
	1899	3	46	2	8	36	55	38	4	16	26	55	29
Bread and other bakery products	1909	58	642	53	154	435	75	1,608	145	222	1,092	1,765	673
	1904	20	392	24	69	299	75	624	64	143	618	997	379
	1899	30	394	30	78	286	75	457	57	113	461	811	350
Brick and tile	1909	3	37	4	1	32	130	28	1	14	5	35	30
	1904	4	117	5	3	104	130	163	6	31	18	92	74
	1899	3			1	35	130	16	1	17	5	28	23
Carriages and wagons and materials	1909	14	483	17	59	407	477	714	80	217	605	1,078	473
	1904	20	1,288	26	111	1,151	477	1,998	121	557	1,270	2,558	1,288
	1899	23			115	1,187	477	1,656	93	478	1,216	2,439	1,233
Coffee and spice, roasting and grinding	1909	3	264		219	45	65	198	142	19	329	604	275
	1904	3	205	2	159	44	65	226	122	22	395	695	300
	1899	3	99	2	70	27	65	69	35	12	188	276	88
Copper, tin, and sheet-iron products	1909	6	173	4	29	140	93	251	33	71	472	700	228
	1904	4	49	4	7	38	93	63	8	19	80	126	46
	1899	6			11	60	93	120	8	22	48	115	67
Flour-mill and gristmill products	1909	4	32	6	6	20	815	239	8	15	297	384	87
	1904	4	40	5	10	25	815	148	10	14	508	596	89
	1899	3	41	1	11	29	815	160	13	16	481	532	51

¹ Figures can not be shown without disclosing individual operations.² Excluding statistics for two establishments, to avoid disclosure of individual operations.³ Excluding statistics for one establishment, to avoid disclosure of individual operations.⁴ Not reported separately.⁵ Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.⁶ Less than \$500.

STATISTICS OF MANUFACTURES.

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TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
COLUMBUS—Continued.													
Foundry and machine-shop products...	1909	58	3,745	46	687	3,012	4,148	\$9,656	\$735	\$1,841	\$3,465	\$7,744	\$4,279
	1904	49	3,299	43	388	2,868	.....	6,344	464	1,550	3,393	7,008	3,615
	1899	43	.....	.....	.....	222	2,971	4,277	283	1,433	2,398	5,070	2,672
Furniture and refrigerators.....	1909	8	422	4	44	374	553	487	61	189	405	747	342
	1904	14	232	2	26	204	.....	320	29	91	230	405	175
	1899	4	250	4	33	213	.....	265	24	67	205	428	223
Gas and electric fixtures and lamps and reflectors.	1909	9	373	4	35	334	263	573	38	141	371	770	399
	1904	13	40	4	4	32	.....	74	4	16	28	62	34
	1899	3	.....	.....	3	64	.....	85	4	30	34	103	69
Ice, manufactured.....	1909	5	183	.....	25	158	1,784	676	21	91	68	253	185
	1904	4	111	.....	18	93	.....	658	10	42	34	128	94
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Leather goods.....	1909	11	200	13	59	128	127	584	43	74	353	560	207
	1904	11	175	14	37	124	.....	306	26	74	223	432	210
	1899	12	.....	.....	50	169	.....	246	38	59	202	395	193
Liquors, malt.....	1909	4	561	.....	88	473	3,045	10,634	146	371	619	2,728	2,109
	1904	5	526	5	66	465	.....	3,721	93	369	816	2,134	1,318
	1899	4	502	5	50	447	.....	1,647	74	251	497	2,024	1,527
Lumber and timber products.....	1909	27	530	20	76	434	1,808	936	85	264	758	1,240	482
	1904	20	355	15	35	305	.....	486	31	220	451	799	348
	1899	17	247	16	13	218	.....	213	11	106	172	374	202
Marble and stone work.....	1909	6	90	5	15	70	445	236	12	47	75	169	94
	1904	4	128	2	15	111	.....	131	39	71	78	188	110
	1899	8	88	8	9	71	.....	63	5	40	33	114	81
Models and patterns, not including paper patterns.	1909	8	49	10	5	34	58	48	3	23	11	70	59
	1904	5	19	6	1	12	.....	12	1	7	2	19	17
Paint and varnish.....	1909	5	119	1	63	55	141	413	68	28	346	602	256
	1904	13	65	.....	27	38	.....	172	39	19	155	282	127
	1899	13	70	.....	23	47	.....	155	30	18	115	205	90
Patent medicines and compounds and druggists' preparations.	1909	13	281	11	130	140	285	730	95	61	239	946	707
	1904	9	242	9	70	163	.....	869	50	55	881	3,214	2,333
	1899	10	.....	.....	35	193	.....	713	32	66	491	1,611	1,120
Printing and publishing.....	1909	91	1,433	71	461	901	879	1,823	417	592	689	2,660	1,971
	1904	76	1,346	78	421	847	.....	1,352	294	516	475	1,916	1,441
	1899	52	.....	.....	181	771	.....	975	137	442	378	1,333	955
Slaughtering and meat packing.....	1909	6	166	5	31	130	365	636	29	101	1,064	2,354	390
	1904	4	79	5	5	69	.....	116	5	49	737	852	115
	1899	5	88	11	4	73	.....	152	2	34	630	714	84
Stoves and furnaces, including gas and oil stoves.	1909	10	360	4	62	294	377	707	65	173	310	722	412
	1904	10	300	9	36	255	.....	425	46	132	190	497	307
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tobacco manufactures.....	1909	35	278	37	18	223	.....	150	21	81	155	436	281
	1904	47	287	55	12	220	.....	95	11	70	107	349	242
	1899	31	537	32	22	433	.....	332	20	113	104	452	348
All other industries.....	1909	184	7,222	107	1,074	6,041	18,909	14,125	1,134	3,136	9,264	16,848	7,584
	1904	135	5,332	101	675	4,556	.....	8,042	671	2,279	5,470	10,694	5,224
	1899	137	.....	.....	483	4,518	.....	10,128	443	2,012	8,426	14,164	5,738
DAYTON—All industries.....													
Boxes, cigar.....	1909	3	97	4	7	86	358	75	5	23	47	85	38
	1904	3	115	3	7	105	.....	77	5	27	45	106	61
	1899	3	122	3	9	110	.....	59	6	36	37	100	63
Boxes, fancy and paper.....	1909	5	594	.....	54	540	376	881	65	196	486	932	446
	1904	5	437	.....	51	386	.....	531	66	114	379	743	364
	1899	3	389	.....	39	350	.....	342	48	101	261	491	230
Brass and bronze products.....	1909	7	246	7	29	210	340	494	47	145	213	481	268
	1904	14	213	5	19	189	.....	436	34	109	111	337	226
	1899	3	282	3	19	260	.....	518	32	89	163	375	212
Bread and other bakery products.....	1909	65	519	74	95	350	401	719	86	137	949	1,531	582
	1904	47	365	53	50	262	.....	481	39	112	538	861	323
	1899	53	278	61	31	186	.....	444	21	88	332	629	297
Brick and tile.....	1909	4	31	5	1	25	165	27	1	11	4	26	22
	1904	3	38	4	2	32	.....	35	2	15	6	33	27
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carriages and wagons and materials.....	1909	17	425	18	33	374	697	677	52	203	347	802	455
	1904	18	431	21	27	383	.....	651	40	167	254	566	312
	1899	13	.....	.....	28	477	.....	652	42	206	330	738	408

1 Excluding statistics for one establishment, to avoid disclosure of individual operations.
 2 Figures can not be shown without disclosing individual operations.
 3 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 4 Not reported separately.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
DAYTON—Continued.													
Clothing, men's, including shirts.....	1909	4	237	4	37	196	125	\$211	\$26	\$71	\$209	\$354	\$145
	1904	4	228	4	20	204	.....	186	17	66	167	315	148
	1899	1 4	312	5	23	284	.....	250	26	79	174	323	154
Coffee and spice, roasting and grinding..	1909	5	271	3	132	136	304	1,165	143	73	1,607	2,245	638
	1904	4	158	1	59	98	.....	500	68	40	1,260	1,571	311
	1899	3	64	4	18	42	.....	188	15	17	386	507	121
Confectionery.....	1909	11	176	12	22	142	50	104	11	51	196	339	143
	1904	8	134	10	17	107	.....	61	11	33	90	189	99
	1899	4	.....	.....	15	62	.....	23	5	17	80	126	46
Copper, tin, and sheet-iron products....	1909	11	98	14	21	63	50	77	5	44	88	178	90
	1904	1 6	86	10	5	71	.....	189	5	44	65	153	88
	1899	8	.....	.....	2	74	.....	109	2	34	99	165	66
Cutlery and tools, not elsewhere specified.	1909	4	50	2	8	40	59	51	7	21	7	62	55
	1904	1 3	23	4	.....	19	.....	12	.....	10	3	18	15
	1899	1 3	9	2	.....	7	.....	7	.....	7	3	10	13
Electrical machinery, apparatus, and supplies.	1909	7	134	3	27	104	334	232	29	49	90	235	145
	1904	5	151	1	23	122	.....	277	30	66	111	325	214
	1899	5	142	4	13	125	.....	217	12	58	74	197	123
Flour-mill and gristmill products.....	1909	6	65	8	16	41	383	266	25	28	548	669	121
	1904	4	58	4	9	45	.....	154	19	29	570	644	74
	1899	4	.....	.....	8	46	.....	211	15	30	525	624	99
Foundry and machine-shop products...	1909	69	4,136	34	517	3,585	5,576	9,530	583	2,033	2,800	6,778	3,978
	1904	50	3,637	59	355	3,223	.....	6,318	464	1,714	2,268	5,539	3,271
	1899	1 40	3,109	38	173	2,898	.....	4,647	210	1,526	2,509	5,019	2,510
Furniture and refrigerators.....	1909	10	491	5	63	423	795	1,087	62	200	287	744	457
	1904	6	477	2	48	427	.....	966	43	193	256	738	482
	1899	6	438	1	34	403	.....	806	31	131	285	528	243
Liquors, malt.....	1909	3	275	.....	54	221	2,365	5,750	88	148	261	1,218	957
	1904	8	235	.....	37	198	.....	1,287	56	147	267	1,087	830
	1899	9	186	5	29	152	.....	1,727	43	97	183	794	611
Lumber and timber products.....	1909	11	580	9	59	512	1,650	1,108	69	325	878	1,417	539
	1904	1 11	517	9	50	458	.....	649	56	273	720	1,241	521
	1899	8	.....	.....	25	463	.....	345	25	223	484	882	398
Marble and stone work.....	1909	6	52	9	2	41	80	59	3	33	39	95	56
	1904	3	34	4	3	27	.....	31	3	23	22	65	43
	1899	10	.....	.....	12	80	.....	55	8	55	66	171	105
Mattresses and spring beds.....	1909	3	14	4	.....	10	100	19	.....	8	24	41	17
	1904	3	28	5	.....	23	.....	25	.....	10	27	49	22
Models and patterns, not including paper patterns.	1909	5	38	7	.....	31	44	10	.....	20	5	35	30
	1904	5	27	7	2	18	.....	24	1	7	5	22	17
	1899	7	23	7	1	15	.....	5	(*)	9	3	20	17
Patent medicines and compounds and druggists' preparations.....	1909	11	86	7	36	43	35	101	47	10	51	183	132
	1904	1 11	69	15	15	39	.....	60	9	12	51	129	78
	1899	1 6	73	8	24	41	.....	430	34	11	54	216	162
Printing and publishing.....	1909	45	937	39	268	630	1,078	1,198	255	386	440	1,552	1,112
	1904	1 40	746	29	196	521	.....	1,417	169	261	310	1,019	709
	1899	1 30	596	21	113	462	.....	807	91	224	320	918	598
Slaughtering and meat packing.....	1909	10	299	8	46	245	484	1,048	52	145	2,636	3,171	535
	1904	7	141	7	24	110	.....	345	17	55	1,144	1,310	166
	1899	1 8	.....	.....	9	87	.....	147	7	46	517	611	94
Soap.....	1909	6	228	3	86	139	232	1,077	101	51	771	1,306	535
	1904	5	136	2	39	95	.....	375	54	40	371	795	424
Tobacco manufactures.....	1909	56	1,544	56	60	1,428	52	700	73	437	831	1,893	1,062
	1904	1 60	1,422	62	73	1,287	.....	1,012	55	425	576	1,455	879
	1899	1 70	1,212	78	36	1,098	.....	577	51	436	420	1,285	865
All other industries.....	1909	129	13,117	81	1,102	11,934	15,368	34,650	1,737	7,503	13,714	34,006	20,292
	1904	108	9,930	85	1,201	8,644	.....	16,802	1,444	4,701	8,899	20,287	11,388
	1899	125	.....	.....	717	6,696	.....	13,717	790	3,384	7,025	16,275	9,250
TOLEDO—All industries.....													
	1909	760	22,900	685	3,357	18,878	43,946	\$58,319	\$3,632	\$9,911	\$34,084	\$61,230	\$27,146
	1904	597	18,504	521	2,285	15,697	.....	38,445	2,265	8,099	25,466	44,501	19,035
	1899	445	.....	.....	1,162	12,747	.....	23,788	1,143	5,576	19,397	31,976	12,579
Boxes, fancy and paper.....	1909	5	111	2	12	97	78	86	12	26	58	103	45
	1904	4	73	2	12	59	.....	70	8	14	43	76	33
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brass and bronze products.....	1909	6	35	10	22	22	68	43	2	13	28	52	24
	1904	1 3	26	4	3	19	.....	12	2	11	29	42	13
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Excluding statistics for one establishment, to avoid disclosure of individual operations.

² Figures can not be shown without disclosing individual operations.

³ Less than \$500.

⁴ Not reported separately.

⁵ Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.

STATISTICS OF MANUFACTURES.

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TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employ-ees.	Wage earners (average number).							
Expressed in thousands.													
TOLEDO—Continued.													
Bread and other bakery products.....	1909	88	633	96	69	468	314	\$663	\$64	\$260	\$959	\$1,598	\$639
	1904	64	595	64	88	443	.....	673	51	205	724	1,268	544
	1899	46	356	48	30	278	.....	435	22	133	475	808	333
Brick and tile.....	1909	8	191	2	17	172	675	233	14	80	35	177	142
	1904	10	248	7	20	221	.....	370	17	117	48	259	211
	1899	11	312	16	8	288	.....	393	7	136	53	279	226
Carriages and wagons and materials.....	1909	16	602	11	77	514	1,283	2,370	105	257	609	1,317	708
	1904	21	924	20	79	825	.....	2,450	89	399	932	1,756	824
	1899	16	879	13	65	801	.....	2,288	70	281	817	1,379	562
Cars and general shop construction and repairs by steam-railroad companies.	1909	4	1,330	.....	132	1,198	985	534	115	634	674	1,427	753
	1904	5	941	.....	73	808	.....	281	62	405	832	1,367	535
	1899	8	646	.....	40	606	.....	333	31	343	479	866	387
Clothing, women's.....	1909	13	1,282	16	116	1,150	155	788	176	492	1,375	2,323	948
	1904	11	726	19	69	638	.....	323	77	251	804	1,448	644
	1899	4	645	8	14	623	.....	204	25	171	483	942	459
Confectionery.....	1909	12	197	14	37	146	105	119	32	51	235	411	176
	1904	10	185	11	33	141	.....	64	18	34	135	262	127
	1899	4	.....	.....	24	47	.....	48	11	13	110	186	76
Cooperage and wooden goods, not elsewhere specified.	1909	10	134	10	8	116	145	133	6	52	106	195	89
	1904	10	43	11	2	30	.....	23	2	15	53	83	30
	1899	10	.....	.....	21	.....	.....	16	.....	12	26	50	24
Copper, tin, and sheet-iron products...	1909	37	675	37	91	547	265	3,557	85	282	640	1,303	654
	1904	20	249	27	42	180	.....	331	30	94	198	484	286
	1899	18	.....	.....	38	578	.....	570	42	201	871	1,291	420
Electrical machinery, apparatus, and supplies.	1909	7	433	1	66	416	248	722	55	168	289	932	643
	1904	4	112	1	13	98	.....	75	13	35	45	130	85
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Flour-mill and gristmill products.....	1909	7	257	3	50	204	3,510	2,485	84	140	4,931	5,662	731
	1904	8	238	3	40	195	.....	1,488	54	115	3,237	3,676	439
	1899	10	263	10	20	233	.....	1,268	40	123	4,034	4,459	425
Foundry and machine-shop products...	1909	75	3,768	50	527	3,191	6,931	8,956	621	1,905	3,161	7,024	3,863
	1904	50	3,253	35	323	2,895	.....	4,945	328	1,566	2,481	5,190	2,699
	1899	27	2,152	22	139	1,991	.....	1,945	118	970	1,130	2,716	1,586
Furniture and refrigerators.....	1909	23	674	18	76	580	884	1,069	86	303	545	1,128	583
	1904	12	485	14	38	433	.....	399	37	220	338	660	322
	1899	8	414	11	61	342	.....	360	37	148	129	418	289
Leather goods.....	1909	4	104	3	13	88	36	79	11	35	78	139	61
	1904	3	101	4	9	88	.....	105	10	38	113	209	96
	1899	4	.....	.....	13	88	.....	73	11	33	80	162	72
Liquors, malt.....	1909	4	365	.....	53	312	1,631	7,103	92	250	452	1,887	1,435
	1904	6	312	.....	50	262	.....	2,427	110	222	499	1,610	1,111
	1899	6	300	.....	47	253	.....	2,189	76	151	330	1,459	1,129
Lumber and timber products.....	1909	28	689	21	83	585	2,480	1,433	96	286	1,111	1,793	682
	1904	23	578	19	57	502	.....	911	54	260	1,260	1,784	524
	1899	18	.....	.....	48	514	.....	1,081	43	212	1,257	1,730	473
Marble and stone work.....	1909	6	89	5	22	62	142	188	22	43	108	217	109
	1904	7	99	9	13	77	.....	172	11	60	134	263	129
	1899	8	.....	.....	7	66	.....	103	6	45	50	135	85
Models and patterns, not including paper patterns.	1909	7	26	10	.....	16	29	15	.....	9	5	24	19
	1904	4	16	4	1	11	.....	10	1	6	5	17	12
	1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Paint and varnish.....	1909	5	61	4	23	34	150	271	22	20	158	252	94
	1904	5	65	3	30	32	.....	174	24	18	139	225	86
	1899	4	52	3	21	28	.....	216	18	13	120	196	76
Patent medicines and compounds and druggists' preparations.	1909	51	169	50	43	76	154	312	43	36	149	540	391
	1904	26	107	24	39	44	.....	175	21	15	74	343	269
	1899	17	61	6	13	42	.....	167	10	13	85	436	351
Petroleum, refining.....	1909	3	331	.....	61	270	540	2,636	103	157	1,845	2,431	586
	1904	3	199	.....	41	158	.....	1,317	63	104	1,556	2,006	450
	1899	3	123	.....	27	96	.....	887	33	55	1,048	1,393	345
Printing and publishing.....	1909	72	1,219	60	396	763	866	1,551	353	480	523	2,004	1,481
	1904	56	1,026	48	341	637	.....	916	292	360	414	1,451	1,037
	1899	42	711	39	112	560	.....	727	84	306	288	982	694
Slaughtering and meat packing.....	1909	11	40	10	3	27	60	68	2	19	294	376	82
	1904	.....	.....	.....	.....	.....	.....	63	.....	24	215	269	54
	1899	3	45	4	3	38	.....	.....	.....	.....	.....	.....	.....

¹ Excluding statistics for two establishments, to avoid disclosure of individual operations.
² Excluding statistics for one establishment, to avoid disclosure of individual operations.
³ Figures can not be shown without disclosing individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

INDUSTRY AND CITY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
TOLEDO—Continued.													
Tobacco manufactures.....	1909	48	593	51	50	486	395	\$541	\$60	\$146	\$795	\$2,129	\$1,334
	1904	¹ 67	189	75	1	113		97	1	58	86	247	161
	1899	² 50	184	52	5	127		76	3	58	74	211	137
Wall plaster.....	1909	6	66		21	45	380	114	18	25	130	221	91
	1904	5	47	1	14	32		83	13	20	81	140	59
	³ 1899												
All other industries.....	1909	204	8,776	181	1,302	7,293	21,487	22,245	1,353	3,742	14,782	25,565	10,783
	1904	157	7,622	112	852	6,058		20,491	895	3,373	10,981	19,236	8,255
	1899	141			430	5,165		10,409	456	2,159	7,458	11,888	4,430
YOUNGSTOWN—All industries.													
	1909	115	11,851	94	1,259	10,498	140,907	\$87,160	\$1,593	\$7,835	\$62,292	\$81,271	\$18,979
	1904	113	8,903	86	722	8,095		40,956	870	5,460	35,183	46,853	11,670
	1899	103			414	8,679		22,064	478	4,730	23,133	33,908	10,775
Bread and other bakery products.....	1909	22	100	27	8	65	23	90	3	38	133	249	116
	1904	11	64	15	1	48		137	(⁵)	30	86	153	67
	1899	10	48	12		36		51		17	39	82	43
Carriages and wagons and materials.....	1909	3	74	2	8	64	88	113	13	40	66	146	80
	1904	⁴	89	4	5	80		122	10	34	71	160	89
	1899	5			13	82		163	15	38	83	201	118
Foundry and machine-shop products.....	1909	15	1,453	4	296	1,153	2,674	5,822	338	800	2,702	4,865	2,163
	1904	¹ 13	1,041	4	128	909		3,006	176	566	1,020	2,079	1,059
	1899	² 12	858	4	65	789		1,460	74	431	866	1,800	934
Iron and steel, steel works and rolling mills.	1909	7	7,128		478	6,650	75,530	50,516	670	5,204	39,969	50,175	10,206
	1904	7	4,980		350	4,630		23,571	429	3,350	23,000	29,738	6,738
	³ 1899												
Lumber and timber products.....	1909	8	232	7	26	199	615	731	32	135	654	953	299
	1904	10	239	11	20	208		576	25	137	431	763	332
	1899	7	202	10	17	175		304	15	85	338	515	177
Printing and publishing.....	1909	13	251	9	78	164	188	402	82	109	128	454	326
	1904	10	178	4	22	152		269	23	121	69	284	215
	1899	¹ 8	128	5	17	106		178	17	67	49	193	144
Tobacco manufactures.....	1909	6	39	7	2	30		18	1	12	10	38	28
	1904	11	42	13		29		12		12	19	51	32
	1899	9	35	11		24		15		13	12	39	27
All other industries.....	1909	41	2,574	38	363	2,173	61,789	29,468	454	1,497	18,630	24,391	5,761
	1904	47	2,270	35	196	2,039		13,263	207	1,210	10,487	13,625	3,138
	1899	52			302	7,467		19,893	357	4,079	21,746	31,078	9,332

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

Alliance.....	1909	44	3,026	35	467	2,524	3,453	\$7,212	\$447	\$1,462	\$2,853	\$6,135	\$3,282
	1904	40	1,725	40	243	1,442		5,682	177	837	1,901	3,547	1,646
	1899	39			134	1,486		5,678	119	667	1,648	3,203	1,555
Ashtabula.....	1909	44	1,601	31	99	1,471	2,379	2,076	138	814	2,084	3,459	1,375
	1904	36	934	32	56	846		1,286	57	456	996	1,895	899
	1899	29			46	373		707	34	165	527	884	357
Bellaire.....	1909	36	2,846	44	205	2,597	17,790	6,427	225	1,412	7,159	10,092	2,933
	1904	37	2,340	22	135	2,183		6,618	148	1,183	7,316	10,712	3,396
	1899	30			69	1,928		3,517	108	827	5,987	8,838	2,851
Cambridge.....	1909	32	1,406	30	146	1,230	5,055	2,379	105	919	2,885	4,291	1,406
	1904	34	909	34	61	814		1,147	50	497	1,520	2,441	921
	1899	28			48	768		1,059	51	487	1,317	2,202	885
Chillicothe.....	1909	57	1,872	59	139	1,674	3,558	2,364	135	707	3,038	4,345	1,307
	1904	64	1,761	65	133	1,553		1,694	114	570	1,928	3,147	1,219
	1899	46			73	1,112		1,054	44	423	878	1,616	738
East Liverpool.....	1909	82	5,254	49	332	4,873	5,528	7,988	448	2,764	2,521	6,629	4,108
	1904	81	5,586	56	302	5,228		6,972	363	2,703	2,107	6,437	4,330
	1899	75			283	4,171		4,900	288	1,970	1,463	4,749	3,286
Elyria.....	1909	58	3,117	30	414	2,673	9,058	7,324	464	1,573	4,495	8,065	3,570
	1904	50	1,430	37	249	1,144		3,071	231	567	1,595	2,933	1,338
	1899	32			62	638		1,117	54	269	740	1,221	481
Findlay.....	1909	74	1,623	67	180	1,376	2,574	2,955	186	574	2,094	3,487	1,393
	1904	71	1,522	78	101	1,343		2,659	105	625	1,579	2,925	1,346
	1899	80			104	1,107		1,693	85	453	751	1,685	934

¹ Excluding statistics for two establishments, to avoid disclosure of individual operations.

² Excluding statistics for one establishment, to avoid disclosure of individual operations.

³ Not reported separately.

⁴ Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.

⁵ Less than \$500.

STATISTICS OF MANUFACTURES.

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TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED—Continued.

CITY.	Census.	Number of establishments.	PERSONS ENGAGED IN INDUSTRY.				Primary horse-power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
			Total.	Proprietors and firm members.	Salaried employes.	Wage earners (average number).							
Expressed in thousands.													
Hamilton.....	1909	125	7,770	81	794	6,895	22,563	\$24,629	\$1,318	\$3,798	\$9,640	\$18,184	\$8,544
	¹ 1904	113	6,679	97	475	6,107	.....	18,874	774	3,321	6,384	13,811	7,427
	1899	97	.....	.....	273	5,147	.....	10,243	366	2,316	5,003	10,655	5,652
Ironton.....	1909	63	2,119	51	148	1,920	15,548	4,993	198	888	4,994	7,118	2,124
	1904	57	1,971	46	125	1,800	.....	3,356	144	824	3,423	4,755	1,332
	1899	53	.....	.....	93	1,577	.....	3,212	106	699	3,145	5,411	2,266
Lancaster.....	1909	42	1,657	48	77	1,532	2,453	1,459	75	677	3,051	4,074	1,023
	¹ 1904	42	1,853	41	117	1,695	.....	1,665	96	759	2,501	3,848	1,347
	1899	36	.....	.....	64	1,069	.....	1,365	57	544	1,059	1,905	846
Lima.....	1909	85	3,899	79	213	3,607	3,264	5,488	363	2,024	3,869	7,754	3,885
	¹ 1904	77	3,005	73	199	2,733	.....	3,894	196	1,322	2,255	4,828	2,573
	1899	76	.....	.....	183	1,980	.....	5,361	158	942	3,936	6,222	2,286
Lorain.....	1909	57	7,347	36	614	6,697	208,992	34,357	762	4,788	24,222	38,987	14,765
	1904	43	3,416	26	288	3,102	.....	10,599	255	2,832	9,708	14,491	4,783
	1899	26	.....	.....	134	2,233	.....	12,684	137	1,102	6,485	9,481	2,996
Mansfield.....	1909	121	3,901	120	577	3,204	5,077	8,539	585	1,472	4,356	8,173	3,817
	1904	109	3,599	112	466	3,021	.....	8,295	465	1,309	3,523	7,354	3,831
	1899	95	.....	.....	316	2,622	.....	5,457	296	973	2,705	6,076	3,371
Mar etta.....	1909	66	1,549	59	202	1,288	2,742	3,275	190	594	1,787	3,215	1,428
	1904	73	1,515	56	145	1,314	.....	2,557	139	610	1,366	2,599	1,233
	1899	77	.....	.....	125	1,511	.....	1,935	112	590	1,150	2,398	1,248
Marion.....	1909	55	3,028	40	369	2,619	3,686	7,864	416	1,405	2,577	5,667	3,090
	1904	47	1,965	32	212	1,721	.....	3,395	230	865	1,352	3,228	1,876
	1899	34	.....	.....	121	1,171	.....	2,917	114	556	966	2,426	1,460
Massillon.....	1909	56	2,193	37	222	1,934	4,790	7,788	282	1,127	2,290	4,788	2,498
	1904	52	2,177	46	136	1,995	.....	5,745	178	1,158	1,582	3,707	2,125
	1899	49	.....	.....	87	1,474	.....	3,975	81	745	1,263	2,749	1,486
Middletown.....	1909	41	2,992	22	394	2,576	9,304	10,564	473	1,389	7,950	16,517	8,567
	1904	47	2,044	44	186	1,814	.....	10,418	198	861	3,692	8,538	4,846
	1899	41	.....	.....	255	1,578	.....	3,867	309	621	2,473	5,800	3,327
Newark.....	1909	72	4,282	63	506	3,913	8,630	9,036	315	1,953	3,982	7,851	3,869
	1904	78	3,936	83	226	3,627	.....	3,834	216	2,130	2,433	5,613	3,180
	1899	69	.....	.....	147	2,075	.....	1,681	122	810	1,180	2,879	1,699
Norwood.....	1909	49	4,445	31	507	3,907	6,381	13,368	632	2,081	4,021	9,684	5,663
	² 1904	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	² 1899	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Piqua.....	1909	82	3,073	74	316	2,683	5,062	5,444	402	1,292	3,852	6,931	3,079
	1904	76	2,282	62	176	2,044	.....	3,196	210	947	1,908	4,036	2,128
	1899	68	.....	.....	193	1,955	.....	3,516	201	914	3,610	5,552	1,942
Portsmouth.....	1909	75	4,319	54	537	3,728	4,028	6,385	680	1,459	3,894	7,277	3,383
	¹ 1904	81	4,500	68	360	4,072	.....	4,670	318	1,479	3,520	6,645	3,125
	1899	100	.....	.....	365	4,153	.....	3,826	302	1,341	3,404	6,658	3,254
Sandusky.....	1909	91	2,518	59	341	2,118	4,856	6,495	353	1,006	2,835	5,947	3,112
	1904	93	2,666	78	265	2,323	.....	6,727	258	1,028	2,136	4,879	2,743
	1899	81	.....	.....	142	1,453	.....	4,453	135	571	1,207	2,834	1,627
Springfield.....	1909	195	8,634	161	1,068	7,405	10,179	22,485	1,262	3,985	8,919	19,246	10,327
	¹ 1904	157	7,215	103	854	6,258	.....	19,739	937	3,253	5,762	13,382	7,620
	1899	164	.....	.....	1,282	6,299	.....	13,844	1,102	3,015	5,289	12,116	6,827
Stuebenville.....	1909	55	4,638	55	316	4,267	37,748	18,424	403	3,203	14,443	21,187	6,744
	1904	72	4,517	78	255	4,184	.....	12,627	321	2,328	8,243	12,370	4,127
	1899	54	.....	.....	88	1,773	.....	2,303	74	784	2,406	4,547	2,141
Tiffin.....	1909	75	1,970	78	260	1,632	3,257	3,727	224	828	1,252	3,254	2,002
	1904	87	1,874	94	135	1,645	.....	2,714	125	664	1,000	2,435	1,435
	1899	75	.....	.....	100	1,238	.....	2,252	75	524	808	1,902	1,094
Warren.....	1909	68	2,174	41	335	1,798	5,530	4,511	421	911	3,064	5,988	2,924
	1904	53	1,763	44	214	1,505	.....	2,730	240	738	2,048	4,414	2,366
	1899	44	.....	.....	126	1,832	.....	2,882	157	775	2,543	4,585	2,042
Zanesville.....	1909	109	3,586	95	341	3,150	8,783	6,025	351	1,793	5,504	9,145	3,641
	¹ 1904	99	3,468	91	279	3,098	.....	4,995	268	1,590	3,291	6,347	3,056
	1899	115	.....	.....	323	3,405	.....	4,120	246	1,255	3,086	5,708	2,622

¹ Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.
² Figures not available.

TABLE II.—DETAIL STATEMENT FOR

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN INDUSTRY.										WAGE EARNERS—NUMBER DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Primary horse-power.
		Total.	Proprietors and firm members.	Salaried officers, superintendents and managers.	Clerks.		Average number.	Wage earners.		Total.	16 and over.		Under 16.				
					Male.	Female.		Number.			Male.	Female.	Male.	Female.			
								Maximum month.	Minimum month.								
1 All industries.....	15,138	523,004	14,719	16,494	34,101	10,756	446,934	De 480,405	Ja 414,278	(1)	(1)	(1)	(1)	(1)	1,583,155		
2 Agricultural implements.....	55	6,972	23	200	630	122	5,997	Ap 6,721	Jy 5,547	6,231	6,178	43	9	1	9,867		
3 Artificial flowers and feathers and plumes.	3	21	3	.....	.....	1	17	Je 19	Je 12	18	3	15	.....	.....	.....
4 Artificial stone.....	299	1,315	391	66	39	17	802	Au 1,041	Ja 375	956	956	.....	.....	.....	1,325
5 Automobiles, including bodies and parts.	75	13,458	42	267	802	217	12,130	De 15,700	Ja 10,034	16,214	15,993	180	37	4	14,433		
6 Babbitt metal and solder.....	6	74	5	7	10	5	47	Se 52	Fe 41	46	46	.....	.....	.....	251
7 Bags, paper.....	8	632	.....	25	37	13	557	De 579	Je 527	580	282	280	1	17	508	
8 Baking powders and yeast.....	10	76	11	4	14	5	42	Mh 47	Jy 37	46	17	27	.....	2	61	
9 Baskets, and rattan and willow ware..	30	350	36	10	3	4	297	Je 361	De 238	359	280	72	4	3	794		
10 Belting and hose, leather.....	8	164	4	18	25	10	107	No 120	My 98	120	120	.....	.....	.....	405
11 Belting and hose, woven and rubber..	5	808	3	25	77	20	683	No 845	Jy 540	835	781	45	9	.....	1,522	
12 Bicycles, motorcycles, and parts.....	6	1,037	2	12	58	23	942	De 1,089	Jy 711	1,181	1,181	.....	.....	.....	1,895
13 Blacking and cleansing and polishing preparations.	49	238	53	26	34	22	103	My 126	Oc 94	119	82	37	.....	.....	297
14 Boots and shoes, including cut stock and findings.	72	17,607	40	393	751	397	16,026	De 17,033	Ap 13,880	17,122	9,510	7,023	254	335	8,925		
15 Boxes, cigar.....	31	600	38	16	10	5	531	No 585	Ap 491	574	220	323	11	20	1,029		
16 Boxes, fancy and paper.....	46	2,777	32	94	77	44	2,530	Oc 2,637	Ja 2,419	2,662	950	1,518	4	190	1,825		
17 Brass and bronze products.....	82	2,650	72	112	152	82	2,232	Oc 2,362	Je 2,055	2,612	2,548	56	8	.....	4,214	
18 Bread and other bakery products.....	1,467	8,758	1,600	162	644	380	5,972	De 6,144	Fe 5,809	6,229	5,025	1,149	32	23	5,398		
19 Brick and tile.....	517	8,575	569	363	132	45	7,466	Je 9,401	Ja 4,878	9,093	9,029	2	62	.....	37,742	
20 Brooms.....	82	536	95	18	22	8	393	De 418	Au 357	428	368	56	4	.....	328	
21 Brushes.....	22	549	17	27	53	27	425	My 481	Au 365	527	322	168	15	22	675		
22 Butter, cheese, and condensed milk...	325	2,494	1,216	78	91	42	1,067	Au 1,232	Fe 876	1,144	1,026	102	8	8	3,386		
23 Butter, reworking.....	5	73	.....	8	9	9	47	Oc 50	Je 42	47	44	3	.....	.....	423
24 Buttons.....	5	164	4	2	4	3	151	My 186	Au 127	152	118	14	6	14	73		
25 Canning and preserving.....	107	2,379	94	116	129	31	2,009	Se 5,868	Ap 581	6,292	2,869	3,321	56	46	4,244		
26 Carpets, rag.....	29	208	26	10	1	7	164	Jy 184	Fe 124	163	96	65	.....	2	447	
27 Carriages and wagons and materials...	407	10,350	414	437	447	237	8,815	My 9,566	Au 7,944	9,051	8,757	241	52	1	14,771		
28 Cars and general shop construction and repairs by steam-railroad companies.	71	22,102	.....	332	1,025	17	20,728	No 22,043	Ap 19,666	21,843	21,797	47	4	.....	19,422
29 Cars and general shop construction and repairs by street-railroad companies.	49	1,392	.....	47	23	4	1,318	Au 1,354	Fe 1,268	1,347	1,326	20	1	.....	3,635
30 Cars, steam-railroad, not including operations of railroad companies.	6	2,477	.....	83	98	14	2,282	Fe 3,171	Ap 1,571	2,650	2,640	10	.....	.....	4,410
31 Cars, street-railroad, not including operations of railroad companies.	4	823	.....	33	45	11	734	De 1,131	Jy 575	1,131	1,129	2	.....	.....	2,875
32 Cement.....	9	978	.....	23	56	12	887	Ap 1,119	Ja 600	1,001	999	2	.....	.....	12,685
33 Chemicals.....	33	1,346	17	60	107	30	1,132	No 1,242	Je 1,051	1,282	1,241	41	.....	.....	11,715
34 Clocks and watches, including cases and materials.	9	1,534	2	21	37	18	1,456	Fe 1,581	Jy 791	1,477	1,018	411	17	31	877		
35 Cloth, sponging and refinishing.....	6	62	10	1	1	2	48	Je 52	Se 44	50	50	.....	.....	.....	24
36 Clothing, men's, including shirts.....	342	11,813	405	200	1,009	249	9,950	De 10,421	Ja 9,167	10,768	3,234	7,160	33	341	1,794		
37 Clothing, women's.....	153	10,191	174	197	690	287	8,843	Oc 9,857	My 7,883	9,746	3,414	6,201	13	118	1,505		
38 Coffee and spice, roasting and grinding.	39	1,586	25	78	614	107	762	No 795	Au 725	784	390	393	1	.....	2,186	
39 Coffins, burial cases, and undertakers' goods.	24	1,475	11	51	138	30	1,245	No 1,279	Jy 1,175	1,259	1,044	207	8	.....	2,289	
40 Coke.....	4	259	.....	7	4	2	246	Ap 300	Au 219	240	240	.....	.....	.....	1,250
41 Confectionery.....	114	3,012	103	98	220	98	2,493	No 3,213	Jy 2,030	2,870	873	1,708	80	209	2,005		
42 Cooperage and wooden goods, not elsewhere specified.	113	1,911	118	76	32	22	1,663	De 1,801	Au 1,568	1,735	1,710	11	14	.....	3,453	
43 Copper, tin, and sheet-iron products..	221	7,685	195	258	441	193	6,598	Se 7,189	Ja 5,762	7,179	5,647	1,172	199	161	6,352		
44 Cordage and twine and jute and linen goods.	8	848	3	17	25	12	791	Ap 932	Au 498	912	678	227	5	2	3,225		
45 Corsets.....	4	47	3	3	1	2	38	Mh 52	Au 24	41	1	40	.....	.....	12
46 Cotton goods, including cotton small wares.	4	195	1	10	4	3	177	Oc 183	Se 172	181	42	135	.....	4	446	
47 Cutlery and tools, not elsewhere specified.	70	3,385	49	117	251	98	2,820	De 3,173	Ja 2,548	3,173	2,872	201	7	3	6,567		
48 Dairymen's, poulterers', and apiarists' supplies.	18	589	19	25	32	34	470	De 520	Oc 433	520	458	47	10	5	916		
49 Electrical machinery, apparatus, and supplies.	115	9,605	49	317	745	421	8,073	De 9,456	Ja 6,967	9,471	6,406	2,983	4	78	11,959		
50 Electroplating.....	29	254	30	12	2	5	205	No 218	Ja 191	222	218	3	1	.....	623	
51 Enameling and japanning.....	5	163	3	5	6	4	145	Mh 157	Ja 127	154	96	18	17	24	88		
52 Explosives.....	11	424	.....	24	34	8	358	Au 385	Ap 323	378	355	23	.....	.....	2,692
53 Fancy articles, not elsewhere specified.	15	251	15	15	31	5	185	Oc 226	Ja 125	211	137	65	3	6	195		
54 Fertilizers.....	27	1,064	13	51	138	21	841	Se 1,522	Fe 676	739	738	1	.....	.....	3,059
55 Files.....	7	154	6	1	3	5	139	Oc 147	Ja 117	157	154	3	.....	.....	490
56 Firearms and ammunition.....	5	910	.....	15	70	12	813	Au 848	De 750	762	497	265	.....	.....	1,129
57 Flags, banners, regalia, society badges, and emblems.	13	1,572	4	44	186	76	1,262	Je 1,445	Au 1,162	1,197	393	777	8	19	588		

1 No figures given for reasons explained in the Introduction.

STATISTICS OF MANUFACTURES.

741

THE STATE, BY INDUSTRIES: 1909.

	Capital.	EXPENSES.									Value of products.	Value added by manufacture.	
		Total.	Services.			Materials.		Miscellaneous.					
			Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.			Other.
1	\$1,300,732,732	\$1,282,845,511	\$33,755,010	\$38,392,489	\$245,449,904	\$50,117,773	\$774,084,174	\$4,913,712	\$24,499,586	\$6,717,474	\$104,915,389	\$1,437,935,817	\$613,733,870
2	25,637,082	12,339,545	472,305	675,635	3,155,115	161,928	6,156,591	4,445	108,334	8,521	1,596,671	14,440,461	8,121,942
3	9,205	12,968	.....	312	6,659	150	3,314	1,320	92	.....	1,121	17,730	14,266
4	1,274,108	1,075,096	53,839	20,167	403,850	13,337	485,228	11,419	6,871	12,372	68,013	1,377,790	879,225
5	30,891,660	32,192,594	634,690	795,222	7,746,477	248,709	18,273,289	38,778	145,625	220,967	4,088,937	38,838,754	20,316,756
6	463,130	1,000,104	22,948	14,172	25,629	4,151	896,857	1,637	5,713	.....	28,997	1,026,917	125,909
7	1,446,847	2,176,662	69,550	34,498	239,763	13,831	1,624,666	15,981	7,740	3,431	167,202	2,393,385	754,888
8	115,998	251,531	8,280	15,020	15,440	1,885	159,514	4,076	864	.....	46,452	272,672	111,273
9	177,847	230,007	2,692	2,692	107,784	3,079	85,040	2,567	1,329	515	16,422	271,126	182,007
10	656,921	1,035,378	49,500	45,843	79,680	5,247	789,826	6,794	4,852	.....	53,636	1,079,943	284,870
11	3,230,099	2,953,710	56,680	90,351	361,862	37,707	2,077,972	2,686	7,973	.....	318,413	3,443,460	1,327,721
12	2,245,317	2,075,493	40,700	53,528	686,355	35,007	1,031,170	1,000	13,410	.....	214,323	2,308,316	1,242,139
13	381,021	523,986	34,111	34,318	50,064	4,129	292,516	10,261	1,443	.....	97,144	672,117	375,472
14	16,755,293	29,516,430	746,715	1,377,843	6,645,790	126,956	18,745,051	162,529	93,839	128	1,617,579	31,550,957	12,678,950
15	463,577	595,131	21,989	9,514	166,952	8,011	352,136	9,217	3,793	42	23,477	711,370	351,223
16	2,840,735	3,345,199	174,239	83,465	830,401	33,880	1,897,521	49,459	14,954	.....	261,280	3,635,190	1,703,789
17	6,471,775	5,786,809	234,007	183,728	1,372,150	92,505	3,440,876	27,995	32,937	11,906	390,705	6,572,022	3,038,641
18	11,780,708	19,856,771	360,828	732,564	3,370,889	403,802	13,262,431	304,213	94,665	89	1,321,290	23,007,131	9,340,898
19	17,314,892	7,413,610	453,138	136,235	3,527,475	1,797,155	407,188	7,648	78,559	93,030	918,152	9,357,730	7,153,387
20	425,275	944,801	15,783	15,736	172,019	5,343	687,136	3,913	2,458	3,347	39,066	1,079,382	386,903
21	766,332	1,064,209	58,750	62,673	158,076	7,958	617,003	6,975	22,253	73,490	57,031	1,219,461	594,500
22	2,738,717	8,938,606	94,608	78,647	556,764	90,537	7,594,899	12,860	18,851	5,434	486,006	9,689,670	2,004,234
23	571,051	1,330,874	13,700	6,698	30,692	8,421	1,219,201	6,880	13,934	.....	31,348	1,356,245	128,623
24	121,056	96,217	1,780	4,434	44,984	959	28,979	2,840	126	.....	2,115	113,915	83,977
25	3,493,904	4,226,322	124,787	127,240	532,219	39,088	3,063,093	18,912	18,354	10,695	291,936	4,659,674	1,557,495
26	95,823	111,268	11,310	2,980	56,777	2,755	24,242	3,384	1,183	25	8,612	153,671	126,674
27	20,397,675	19,320,042	726,241	555,688	4,647,200	211,381	11,202,620	125,421	119,657	22,129	1,709,705	21,949,459	10,535,458
28	10,653,932	28,703,331	404,428	894,547	12,726,032	473,816	13,791,741	.....	78,108	6,385	323,274	28,690,287	14,424,730
29	2,054,130	1,691,903	47,275	17,880	722,389	23,276	777,775	.....	18,285	2,200	82,823	1,690,903	889,852
30	11,036,610	6,492,724	410,325	134,937	1,303,953	53,281	4,141,234	2,443	37,917	20,272	388,362	6,451,155	2,256,640
31	2,842,157	1,849,075	74,777	49,593	470,572	27,540	1,066,679	1,200	11,430	.....	147,284	1,955,118	860,899
32	4,732,463	1,573,257	69,854	70,313	543,596	325,614	312,864	.....	22,981	14,162	213,873	1,465,413	826,935
33	8,993,786	6,268,370	194,180	129,748	748,913	566,999	4,181,297	11,687	43,324	.....	392,222	7,742,045	2,993,749
34	4,231,593	1,677,188	51,804	38,723	784,220	17,188	508,430	7,325	5,351	154,021	110,126	1,980,957	1,456,339
35	23,982	44,722	2,000	1,240	28,727	2,517	580	4,873	45	80	4,660	24,869,437	11,949,357
36	14,432,475	22,432,985	455,255	1,235,963	4,049,927	90,084	12,829,996	321,750	42,823	1,898,437	1,508,751	19,493,080	9,202,477
37	8,150,889	18,014,201	575,276	1,077,461	4,271,984	79,793	10,213,790	197,540	25,117	279,452	1,296,788	11,224,437	2,947,098
38	5,400,252	10,363,145	175,243	636,810	351,936	40,707	8,236,632	40,739	23,658	3,348	849,072	11,224,437	2,947,098
39	3,724,239	2,589,691	105,042	161,039	525,229	32,550	1,291,909	7,265	27,926	.....	438,731	3,061,150	1,736,691
40	1,238,106	808,352	13,840	4,788	119,852	616,101	23,509	450	2,327	.....	27,485	850,615	211,005
41	3,416,317	6,092,637	170,745	272,702	839,703	50,028	4,038,890	95,888	13,015	15,853	590,810	7,306,574	3,217,656
42	2,910,894	3,368,074	118,122	42,635	802,658	22,424	2,193,802	18,147	19,181	480	150,625	3,515,516	1,299,290
43	21,685,043	17,059,530	505,958	455,026	3,163,188	225,815	11,396,152	64,151	61,455	24,460	1,163,325	19,086,462	7,464,495
44	2,743,489	2,561,362	48,265	32,725	312,704	26,774	1,957,255	2,100	13,499	.....	163,040	2,727,854	743,825
45	47,164	50,117	2,432	2,484	10,438	529	28,156	1,904	71	.....	4,103	67,226	38,541
46	300,858	337,519	19,850	4,256	52,411	4,621	229,011	4,662	3,137	.....	19,571	395,175	161,543
47	7,768,232	4,385,900	220,578	299,991	1,518,312	99,846	1,550,390	11,475	37,388	5,040	642,880	5,035,889	3,385,653
48	1,041,471	982,045	32,509	39,719	261,558	9,493	517,827	3,062	5,371	.....	112,566	1,148,746	621,486
49	23,706,297	15,497,820	662,674	866,607	3,846,906	317,650	6,908,228	73,975	153,008	18,892	2,649,880	18,776,769	11,550,891
50	128,121	215,249	11,176	3,740	127,305	10,532	43,061	10,088	911	.....	8,436	259,374	205,781
51	132,069	181,014	7,160	5,624	62,608	11,802	83,098	1,560	888	2,322	5,852	210,478	115,578
52	2,247,776	1,585,825	66,668	35,586	203,782	40,997	1,062,874	460	14,799	.....	160,659	1,718,571	615,000
53	752,760	337,650	19,160	32,036	83,353	2,670	115,551	8,977	1,019	1,239	73,645	412,944	294,723
54	4,950,438	3,583,213	99,669	137,822	367,948	66,782	2,468,003	2,264	22,741	1,229	416,755	4,434,541	1,899,756
55	112,961	141,289	1,200	5,521	75,300	6,794	43,685	3,300	400	.....	5,089	151,522	101,043
56	2,225,245	2,019,684	57,010	106,600	318,116	24,403	1,266,507	1,000	7,457	.....	232,591	2,214,998	924,088
57	2,351,946	2,721,088	106,863	236,169	522,850	10,409	1,498,679	13,103	16,064	1,100	315,851	3,025,875	1,516,787

* Same number reported for one or more other months.

STATISTICS OF MANUFACTURES.

743

STATE, BY INDUSTRIES: 1909—Continued.

Capital.	EXPENSES.										Value of products.	Value added by manu- facture.
	Total.	Services.			Materials.		Miscellaneous.					
		Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.		
1 \$19,962,573	\$44,617,047	\$377,050	\$305,101	\$1,415,155	\$361,954	\$40,990,653	\$23,042	\$133,229	\$10,652	\$1,000,211	\$48,093,353	\$6,740,746
2 177,744,821	129,424,717	5,973,713	5,934,233	38,014,707	2,636,816	61,923,079	454,696	989,472	718,395	12,779,606	145,836,648	81,276,753
3 277,682	327,239	11,618	3,910	74,478	1,305	204,959	20,216	1,007	.....	9,746	410,681	204,417
4 2,308,137	4,294,045	115,666	173,577	667,993	20,820	3,029,751	24,800	6,997	.....	234,361	4,622,959	1,572,388
5 16,250,911	14,294,222	585,971	468,828	4,141,784	163,222	7,079,223	113,757	101,453	.....	29,460	1,610,524	9,016,312
6 2,576,959	3,264,904	137,113	164,767	747,943	35,692	1,740,843	27,186	9,964	.....	60,287	3,563,239	1,786,704
7 11,969,337	2,182,051	96,435	84,123	431,305	741,935	84,809	363,695	175,832	.....	10,862	3,079,670	2,252,926
8 16,201,190	12,753,518	456,835	259,528	5,976,989	1,091,415	3,596,571	31,979	68,177	.....	19,321	14,358,274	9,670,288
9 67,620	134,052	6,900	760	31,594	704	88,456	2,328	389	.....	.....	138,656	49,496
10 4,678,818	1,315,811	81,872	64,773	597,217	55,580	329,279	.....	19,209	.....	3,132	1,498,256	1,113,397
11 161,327	148,631	8,775	9,618	59,163	2,653	47,985	11,896	730	.....	55	194,898	144,260
12 384,362	711,787	29,622	43,943	174,355	4,828	174,730	18,948	728	.....	296	804,229	381,971
13 4,245	10,459	.....	.....	4,716	383	3,457	.....	42	.....	421	14,683	10,843
14 4,407,821	5,760,921	229,642	160,950	1,071,780	37,563	3,813,869	44,033	14,319	.....	32,156	6,433,431	2,582,012
15 8,380,852	1,736,257	163,192	56,538	558,758	414,763	149,621	15,499	59,052	.....	458	2,270,112	1,705,728
16 1,559,069	1,591,527	84,362	106,344	181,103	13,876	795,375	1,135	12,374	.....	.....	1,907,369	1,098,118
17 94,532,845	77,273,870	565,058	800,777	5,089,969	21,227,222	47,137,500	38,520	430,205	.....	26,360	1,898,238	83,699,238
18 163,383,821	178,093,126	1,792,510	2,268,379	28,614,117	7,672,641	131,570,514	3,050	735,414	.....	58,786	5,377,715	58,536,888
19 1,191,041	1,037,939	33,402	50,313	251,926	5,556	613,528	24,947	4,003	.....	.....	54,264	636,026
20 352,564	294,762	11,217	2,200	33,770	22,393	200,276	.....	2,451	.....	.....	330,510	107,832
21 4,069,792	4,433,205	151,586	150,752	879,013	27,012	2,831,668	49,218	26,155	.....	.....	317,801	4,939,092
22 13,768,911	9,398,390	141,655	55,585	1,083,121	89,269	7,630,335	7,009	43,512	.....	855	347,049	10,127,836
23 2,634,728	1,424,852	84,831	44,463	553,371	254,658	343,070	1,480	13,107	.....	350	129,622	1,022,332
24 4,731,718	11,529,484	52,970	34,555	230,086	77,402	2,436,914	15,060	8,428,651	.....	1,000	252,846	9,498,799
25 57,748,188	21,008,272	998,973	684,513	3,267,244	731,019	5,832,081	11,824	4,524,313	.....	66,300	4,892,005	25,332,059
26 1,979,718	1,087,261	46,640	48,042	79,439	10,728	707,459	3,622	66,289	.....	.....	125,042	585,510
27 28,500,012	30,347,035	935,657	531,712	6,700,919	219,372	19,752,991	144,685	185,684	.....	252,266	1,623,749	34,597,069
28 3,505,269	3,263,445	149,228	146,564	1,161,397	89,231	1,361,026	22,473	19,337	.....	27,296	286,893	2,627,051
29 2,934,691	2,693,906	73,260	109,654	435,498	24,883	1,656,869	16,899	15,562	.....	6,016	355,265	1,625,037
30 1,333,902	2,368,873	98,361	125,067	478,313	13,780	1,444,869	34,203	5,372	.....	.....	168,907	2,744,492
31 166,006	262,372	9,248	1,150	55,722	2,620	179,555	3,640	915	.....	800	8,723	109,012
32 315,989	516,425	21,520	6,149	293,545	8,067	150,724	16,235	1,530	.....	300	18,355	669,855
33 74,145	59,608	1,125	4,329	32,604	1,023	7,071	1,054	395	.....	1,559	10,448	80,884
34 3,593,177	3,549,176	111,593	60,562	1,092,113	30,944	1,891,439	53,806	19,209	.....	1,985	287,525	3,925,757
35 2,552,088	3,387,051	33,959	22,184	83,232	26,778	3,054,269	360	7,405	.....	.....	158,864	3,627,492
36 159,808	233,230	20,725	19,658	41,621	2,138	107,066	16,819	1,008	.....	.....	274,050	164,846
37 11,757,377	12,482,218	598,965	778,140	904,378	96,353	8,473,693	42,917	72,046	.....	600	1,515,126	13,617,189
38 20,969,694	15,515,130	404,240	192,088	2,419,215	1,049,087	8,849,188	4,800	86,867	.....	10,768	1,498,867	16,965,260
39 5,604,576	5,478,505	195,343	116,409	881,779	48,497	3,385,189	24,493	282,825	.....	3	543,967	6,300,006
40 4,071,946	4,908,370	287,680	512,590	385,063	31,100	1,856,866	56,293	31,865	.....	5,380	1,741,533	5,859,469
41 305,989	410,002	27,203	53,386	49,852	1,096	221,023	6,732	975	.....	2,040	47,695	469,869
42 11,152,443	10,042,159	156,675	255,175	1,028,304	522,595	7,621,988	9,436	100,092	.....	4,025	343,869	10,753,738
43 67,357	101,450	22,046	7,724	10,166	322	42,646	1,660	748	.....	.....	16,138	6,066,975
44 266,262	499,709	53,589	31,813	241,786	7,360	101,984	12,575	910	.....	4,524	45,168	575,819
45 32,166,636	18,838,269	801,609	641,338	8,627,779	2,025,175	4,436,305	15,859	151,374	.....	98,159	2,040,771	21,173,272
46 38,053,259	34,564,572	2,394,986	3,063,222	9,354,848	396,263	11,508,091	649,970	211,913	.....	1,391,211	5,594,068	41,657,306
47 2,272,910	2,280,327	35,020	108,869	517,309	21,168	1,249,532	3,508	12,554	.....	.....	332,369	2,747,109
48 37,545,665	45,575,644	637,545	1,390,141	5,659,522	360,166	32,082,249	5,810	151,455	.....	1,177	5,287,579	53,910,531
49 5,074,718	4,908,112	207,557	541,330	1,321,055	47,024	2,114,961	12,945	27,663	.....	6,335	624,342	5,488,341
50 1,980,873	1,640,212	45,650	32,144	360,534	250,292	840,063	.....	8,791	.....	.....	102,738	1,807,347
51 339,335	276,201	13,848	11,781	95,449	5,547	101,992	4,110	3,405	.....	.....	40,069	297,667
52 665,589	459,609	28,400	13,281	203,797	14,460	163,530	3,120	5,689	.....	.....	27,392	597,966
53 4,973,085	5,691,231	96,080	179,914	2,104,703	42,875	2,475,451	.....	40,686	.....	.....	751,522	5,972,228
54 13,625,199	4,799,707	153,380	105,776	1,704,530	98,317	2,363,525	8,092	49,821	.....	800	315,466	5,676,416
55 1,095,562	1,137,725	32,700	29,679	199,770	26,710	714,934	.....	123,171	.....	.....	1,257,173	515,529
56 54,654	593,535	37,818	14,221	172,556	7,874	299,049	9,494	3,207	.....	4,000	45,316	667,866
57 2,039,182	2,247,537	99,043	63,479	505,118	19,216	922,146	17,148	14,556	.....	2,200	604,631	2,598,093
58 12,393,691	48,174,845	279,518	407,343	1,859,502	224,429	44,122,733	21,769	74,172	.....	7,750	1,180,639	50,804,100
59 270,562	247,297	18,366	3,720	41,384	30,617	142,993	930	539	.....	.....	8,728	379,205
60 12,731,616	14,050,747	186,625	386,553	826,561	222,034	11,435,996	17,279	57,390	.....	843	914,466	17,077,308
61 63,532	35,654	5,300	1,320	14,365	1,436	8,101	770	442	.....	.....	3,920	38,158
62 239,453	402,982	20,781	18,102	142,532	12,493	158,901	11,922	684	.....	.....	37,567	475,215
63 15,624,866	13,627,363	519,138	681,673	4,217,193	134,710	6,125,783	46,158	86,343	.....	94,334	1,682,031	15,357,500
64 574,391	394,571	17,367	12,268	82,350	20,238	228,339	.....	3,276	.....	.....	30,733	169,125
65 253,873	10,960	10,367	43,175	50,110	1,150	80,999	5,758	1,678	.....	2,805	29,598	201,794
66 1,063,491	7,733,673	18,473	57,083	449,242	29,835	7,125,309	.....	7,036	.....	.....	46,695	7,889,367

TABLE II.—DETAIL STATEMENT FOR THE

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN INDUSTRY.								WAGE EARNERS—NUMBER DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Primary horse-power.	
		Total.	Proprietors and firm members.	Salaried officers, supts. and managers.	Clerks.		Average number.	Wage earners.		Total.	16 and over.		Under 16.		
					Male.	Female.		Number.			Male.	Female.	Male.		Female.
								Maximum month.	Minimum month.						
1 Tobacco manufactures.....	1,146	14,681	1,260	237	455	89	12,621	De 13,194	Fe 12,256	13,384	4,327	8,938	110	9	1,401
2 Type founding and printing materials.....	5	87	5	3	5	1	73	Ap ¹ 75	My 70	74	71	2	1	55	
3 Typewriters and supplies.....	4	20	2	2	2	3	11	Ap ¹ 12	Ja ¹ 9	11	9	2	.....	17
4 Umbrellas and canes.....	15	371	15	13	42	14	287	De 314	Ja 252	314	87	208	6	13	82
5 Wall plaster.....	23	340	10	35	25	11	259	Au ¹ 291	Ja 215	243	243	.....	.....	1,823
6 Whips.....	4	205	.....	8	43	6	148	Mh 162	Se 137	142	91	50	.....	210
7 Woolen, worsted, and felt goods, and wool hats.....	20	2,711	23	41	65	16	2,566	Au 2,724	Ja 2,358	2,688	857	1,594	42	195	6,504
8 All other industries ²	979	36,524	813	1,328	2,435	883	31,065	.....	.....	.....	.....	.....	.....	73,492

¹ Same number reported for one or more other months.

² All other industries embrace—

Artists' materials.....	1	Emery and other abrasive wheels.....	3	Horseshoes, not made in steel works or rolling mills.....	1
Awnings, tents, and sails.....	30	Engraving and diesinking.....	8	House-furnishing goods, not elsewhere specified.....	22
Axle grease.....	5	Engraving, wood.....	4	Ink, writing.....	1
Bags, other than paper.....	6	Fire extinguishers, chemical.....	2	Instruments, professional and scientific.....	17
Beet sugar.....	1	Fireworks.....	3	Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills.....	17
Billiard tables and materials.....	4	Flavoring extracts.....	37	Iron and steel, doors and shutters.....	3
Bluing.....	3	Food preparations.....	61	Iron and steel forgings.....	30
Bone, carbon, and lamp black.....	1	Foundry supplies.....	10	Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.....	4
Carpets and rugs, other than rag.....	2	Furs, dressed.....	1	Iron and steel pipe, wrought.....	5
Carriages and sleds, children's.....	9	Galvanizing.....	5	Jewelry and instrument cases.....	2
Cash registers and calculating machines.....	8	Glass, cutting, staining, and ornamenting.....	34	Labels and tags.....	4
Charcoal.....	8	Glucose and starch.....	2	Lasts.....	2
Clothing, horse.....	1	Glue.....	3	Lead, bar, pipe, and sheet.....	2
Clothing, men's, buttonholes.....	8	Gold and silver, reducing and refining, not from the ore.....	2	Locomotives, not made by railroad companies.....	1
Cordials and sirups.....	7	Grease and tallow.....	23		
Dentists' materials.....	5	Hair work.....	7		
Drug grinding.....	1	Hats, straw.....	1		
Dyeing and finishing textiles.....	6				

STATISTICS OF MANUFACTURES

745

STATE, BY INDUSTRIES: 1909—Continued.

	Capital.	EXPENSES.									Value of products.	Value added by manufacture.	
		Total.	Services.			Materials.		Miscellaneous.					
			Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.			Other.
1	\$11,070,490	\$25,573,191	\$490,777	\$489,449	\$4,504,787	\$66,380	\$12,008,443	\$184,249	\$4,758,332	\$22,702	\$3,048,072	\$28,907,269	\$16,832,446
2	367,693	159,174	7,360	5,428	58,046	2,724	69,018	6,320	674	-----	9,604	192,220	120,478
3	25,693	47,797	2,600	4,546	6,224	243	25,944	1,908	27	-----	6,305	54,102	27,915
4	564,884	885,072	25,214	43,766	104,642	2,502	604,851	12,389	3,295	500	87,913	1,005,130	397,777
5	679,065	712,459	49,346	26,638	105,556	38,704	395,577	36,195	6,343	4,615	49,485	935,165	500,884
6	302,852	314,633	13,210	50,925	55,452	3,780	137,863	-----	1,910	-----	51,493	349,077	207,434
7	7,158,812	6,767,443	115,080	91,688	924,844	61,360	4,554,669	2,765	32,612	479,818	504,587	7,690,149	3,074,120
8	83,524,536	94,176,549	2,728,243	2,731,218	16,489,005	1,397,744	55,569,415	302,606	528,617	308,265	14,121,436	105,098,862	48,131,703

² All other industries embrace—Continued.

Looking-glass and picture frames.....	15	Pulp goods.....	2	Vault lights and ventilators.....	1
Malt.....	8	Roofing materials.....	11	Vinegar and cider.....	19
Matches.....	4	Rules, ivory and wood.....	1	Wall paper.....	2
Mineral and soda waters.....	174	Scales and balances.....	6	Washing machines and clothes wringers.....	18
Mudlage and paste.....	18	Screws, wood.....	1	Waste.....	1
Needles, pins, and hooks and eyes.....	1	Silk and silk goods, including throwsters.....	1	Wheelbarrows.....	3
Oil, cottonseed, and cake.....	1	Silverware and plated ware.....	5	Windmills.....	3
Oil, not elsewhere specified.....	21	Soda-water apparatus.....	1	Window shades and fixtures.....	7
Oilecloth and linoleum.....	3	Sporting and athletic goods.....	12	Wire.....	6
Oleomargarine.....	2	Springs, steel, car and carriage.....	5	Wirework, including wire rope and cable.....	60
Paper patterns.....	2	Stationery goods, not elsewhere specified.....	14	Wood, turned and carved.....	83
Paving materials.....	5	Statuary and art goods.....	8	Wool pulling.....	1
Peanuts, grading, roasting, cleaning, and shelling.....	2	Toys and games.....	19		
Pipes, tobacco.....	1	Upholstering materials.....	9		

SUPPLEMENT FOR OHIO.

TABLE III.—DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES, CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES.

AKRON.

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN INDUSTRY.										WAGE EARNERS—NUMBER DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Primary horse-power.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks.		Wage earners (average number).			Total.	16 and over.		Under 16.				
					Male.	Female.	Total.	16 and over.			Under 16.	Male.	Female.	Male.	Female.		
								Male.	Female.								
1 All industries.....	246	19,023	159	432	2,006	595	15,831	13,387	2,223	221	17,411	14,726	2,445	87	153	36,263	
2 Artificial stone.....	10	51	16	3	1	1	30	30	.....	.....	30	30	.....	.....	.....	16
3 Bread and other bakery products.....	25	145	23	6	12	14	90	81	9	.....	95	85	10	.....	.....	105
4 Brick and tile.....	3	96	3	5	3	.....	85	84	.....	1	98	97	.....	1	.....	345
5 Carriages and wagons and materials.....	7	137	8	6	5	3	115	114	1	.....	117	116	1	.....	.....	357
6 Foundry and machine-shop products.....	26	1,061	12	35	36	9	969	908	25	36	1,082	1,014	28	27	13	2,015	
7 Liquors, malt.....	3	110	.....	14	14	1	81	81	.....	.....	80	80	.....	.....	.....	1,522
8 Lumber and timber products.....	10	378	8	16	23	12	319	279	40	.....	264	231	33	.....	.....	989
9 Patent medicines and compounds and druggists' preparations.....	8	18	9	1	1	1	6	3	3	.....	9	5	4	.....	.....	.....
10 Pottery, terra-cotta, and fire-clay products.....	15	1,162	5	33	26	11	1,087	997	77	13	1,108	1,016	79	.....	13	2,557
11 Printing and publishing.....	27	990	16	37	103	100	734	352	379	3	781	375	403	3	.....	934
12 Stoves and furnaces, including gas and oil stoves.....	5	396	.....	11	40	11	334	334	.....	.....	354	354	.....	.....	.....	610
13 Tobacco manufactures.....	7	17	7	.....	.....	.....	10	9	1	.....	11	10	1	.....	.....	.....
14 All other industries ¹	100	14,462	52	265	1,742	432	11,971	10,115	1,688	168	13,382	11,313	1,886	56	127	26,813	

¹ All other industries embrace: Agricultural implements, 1; automobiles, including bodies and parts, 5; awnings, tents, and sails, 1; baking powders and yeast, 1; belting and hose, leather, 1; blacking and cleansing and polishing preparations, 2; boxes, fancy and paper, 1; brass and bronze products, 2; brooms, 2; brushes, 1; butter, cheese, and condensed milk, 1; canning and preserving, 1; carpets, rag, 3; cars and general shop construction and repairs by street-railroad companies, 1; clothing, women's, 1; coffee and spice, roasting and grinding, 1; confectionery, 3; cooperage and wooden goods, not elsewhere specified, 1; copper, tin, and sheet-iron products, 8; cordage and twine and jute and linen goods, 1; electrical machinery, apparatus, and supplies, 3; electroplating, 1; engraving and diesinking, 1; files, 1; flavoring extracts, 1; flour-mill and gristmill products, 1; food preparations, 4; furnishing goods, men's, 1; gas and electric fixtures and lamps and reflectors, 1; glass, 1; hand stamps and stencils and brands, 1;

CANTON.

1 All industries.....	204	11,313	129	326	641	253	9,964	8,892	955	117	10,315	9,646	1,043	95	31	27,016
2 Agricultural implements.....	5	351	.....	15	44	9	283	283	.....	.....	319	319	.....	.....	.....	442
3 Brass and bronze products.....	5	35	7	1	1	4	22	21	.....	1	37	36	.....	1	.....	38
4 Bread and other bakery products.....	19	97	23	3	7	5	59	55	4	.....	60	56	4	.....	.....	38
5 Confectionery.....	7	44	7	1	3	3	30	9	20	1	31	9	21	1	.....	18
6 Cutlery and tools, not elsewhere specified.....	5	179	.....	12	13	16	138	123	15	.....	146	130	16	.....	.....	230
7 Foundry and machine-shop products.....	32	2,044	13	74	158	51	1,748	1,678	18	52	1,832	1,758	19	55	.....	3,409
8 Furniture and refrigerators.....	5	208	2	10	10	7	179	175	4	.....	194	190	4	.....	.....	354
9 Leather goods.....	3	305	2	12	12	12	267	175	90	2	284	186	96	2	.....	131
10 Lumber and timber products.....	3	52	1	4	1	.....	46	46	.....	.....	50	50	.....	.....	.....	180
11 Printing and publishing.....	17	219	17	10	20	11	161	139	22	.....	173	149	24	.....	.....	185
12 Tobacco manufactures.....	19	93	23	.....	.....	.....	70	35	30	5	83	42	35	6	.....	.....
13 All other industries ¹	84	7,686	34	184	372	135	6,961	6,153	752	56	7,606	6,721	824	30	31	21,991

¹ All other industries embrace: Artificial stone, 3; automobiles, including bodies and parts, 1; awnings, tents, and sails, 1; axle grease, 1; blacking and cleansing and polishing preparations, 2; boxes, fancy and paper, 1; brooms, 2; butter, cheese, and condensed milk, 2; canning and preserving, 1; carriages and wagons and materials, 2; cars and general shop construction and repairs by steam-railroad companies, 1; cars and general shop construction and repairs by street-railroad companies, 1; clocks and watches, including cases and materials, 2; clothing, men's, including shirts, 1; clothing, women's 1; coffee and spice, roasting and grinding, 2; cooperage and wooden goods, not elsewhere specified, 1; copper, tin, and sheet-iron products, 7; dairymen's, poultryers', and apiarists' supplies, 2; electrical machinery, apparatus, and supplies, 1; electroplating, 2; flour-mill and gristmill products, 2; furnishing goods, men's, 2; gas and electric fixtures and lamps and reflectors, 3; gas, illuminating and heating, 1; house-

CINCINNATI.

1 All industries.....	2,184	72,488	2,015	2,670	5,659	1,952	60,192	43,899	14,949	1,344	64,696	47,432	15,785	621	858	88,597
2 Bags, paper.....	5	358	.....	18	31	10	299	153	128	18	303	155	130	1	17	320
3 Blacking and cleansing and polishing preparations.....	14	92	21	4	19	10	38	21	17	.....	41	23	18	.....	.....	34
4 Boots and shoes, including cut stock and findings.....	32	8,702	21	199	285	208	7,989	4,514	3,132	343	8,328	4,701	3,266	137	224	4,631
5 Boxes, cigar.....	8	248	10	9	5	2	222	109	107	6	236	116	114	6	.....	405
6 Boxes, fancy and paper.....	15	738	9	30	20	10	669	162	425	82	715	173	455	1	86	218
7 Brass and bronze products.....	14	635	12	18	31	11	563	534	24	5	579	549	25	5	.....	424
8 Bread and other bakery products.....	187	1,768	186	48	121	73	1,340	1,029	295	15	1,446	1,110	320	6	10	909
9 Brick and tile.....	7	114	7	7	1	.....	99	99	.....	.....	131	131	.....	.....	.....	280
10 Canning and preserving.....	9	315	5	16	61	16	217	130	76	11	251	150	88	4	9	420
11 Carriages and wagons and materials.....	74	2,677	64	125	163	75	2,250	2,144	97	9	2,190	2,087	94	9	.....	2,523
12 Cars and general shop construction and repairs by steam-railroad companies.....	3	327	.....	3	10	.....	314	304	10	.....	317	307	10	.....	.....	590
13 Chemicals.....	11	162	4	16	12	8	122	119	3	.....	122	119	3	.....	.....	508
14 Clothing, men's, including shirts.....	183	6,956	237	106	757	138	5,718	1,870	3,654	194	6,177	2,022	3,947	24	184	559
15 Clothing, women's.....	26	1,541	41	28	103	44	1,325	444	841	40	1,454	487	924	13	30	176
16 Coffee and spice, roasting and grinding.....	8	356	7	14	94	20	221	115	106	.....	231	120	111	.....	.....	691
17 Confectionery.....	22	922	21	23	73	34	771	322	401	48	912	381	474	2	55	573
18 Cooperage and wooden goods, not elsewhere specified.....	20	697	17	29	15	4	632	630	1	1	579	577	1	1	.....	1,269
19 Copper, tin, and sheet-iron products.....	37	1,019	30	47	78	31	833	540	31	262	1,057	685	39	175	158	1,154
20 Cutlery and tools, not elsewhere specified.....	9	80	14	5	6	.....	95	53	2	.....	61	59	2	.....	.....	166
21 Electrical machinery, apparatus, and supplies.....	13	393	9	26	32	13	313	301	12	.....	362	348	14	.....	.....	397

STATISTICS OF MANUFACTURES.

747

AND TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909.

CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES.

AKRON.

	EXPENSES.										Value of products.	Value added by manufacture.	
	Capital.	Total.	Services.			Materials.		Miscellaneous.					
			Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.			Other.
1	\$58,216,484	\$62,846,917	\$1,094,885	\$1,909,378	\$8,935,850	\$755,617	\$42,315,011	\$36,722	\$373,263	\$236,513	\$7,189,678	\$73,156,206	\$30,087,578
2	31,364	33,518	2,090	794	14,556	357	14,334	119	270	-----	998	41,230	26,539
3	161,326	368,283	7,560	15,686	58,194	8,324	246,243	8,711	957	-----	22,588	416,828	162,261
4	115,919	121,891	5,090	2,138	42,689	36,205	3,628	-----	640	10,672	20,329	140,612	100,779
5	442,009	181,165	9,262	6,010	68,286	4,174	73,974	300	2,202	-----	157	16,800	157,532
6	3,008,142	1,916,425	60,300	45,800	650,481	35,127	1,027,124	6,840	14,152	-----	152	76,449	1,185,808
7	914,133	470,171	71,420	14,536	57,339	19,162	150,739	-----	100,497	-----	56,478	645,038	475,137
8	663,164	736,603	20,972	36,212	191,048	6,497	430,957	200	4,327	-----	46,390	792,141	354,637
9	18,630	20,224	780	1,620	2,440	160	8,360	400	109	-----	200	6,165	20,473
10	1,988,546	1,215,275	56,172	30,600	556,755	212,049	191,072	-----	17,413	7,356	143,858	1,349,808	946,687
11	3,587,216	1,811,038	100,450	66,568	452,446	13,346	583,189	4,360	12,898	213,353	364,428	2,352,910	1,756,375
12	804,197	647,561	19,900	57,224	227,811	7,294	237,335	2,580	4,074	-----	91,343	753,955	509,325
13	5,231	13,510	-----	-----	4,245	-----	5,794	678	2,659	-----	134	17,989	12,195
14	46,476,607	55,311,753	740,869	1,632,190	6,609,560	412,922	39,342,272	12,534	213,065	4,623	6,343,718	64,134,973	24,379,779

hats, fur-felt, 2; hosiery and knit goods, 1; ice, manufactured, 1; ink, printing, 1; iron and steel, steel works and rolling mills, 1; leather goods, 1; marble and stone work, 2; mattresses and spring beds, 1; mineral and soda waters, 3; models and patterns, not including paper patterns, 1; mucilage and paste, 4; oilcloth and linoleum, 1; paint and varnish, 1; paper and wood pulp, 1; pens, fountain, stylographic, and gold, 1; photo-engraving, 1; rubber goods, not elsewhere specified, 14; shipbuilding, including boat building, 1; signs and advertising novelties, 1; sporting and athletic goods, 2; steam packing, 1; surgical appliances and artificial limbs, 1; umbrellas and canes, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 1.

CANTON.

1	\$25,342,343	\$24,607,354	\$663,154	\$683,926	\$5,718,517	\$569,632	\$14,074,131	\$31,367	\$180,681	\$162,736	\$2,523,210	\$28,582,811	\$13,939,048
2	1,047,385	765,025	32,534	66,105	127,007	7,132	393,443	2,625	3,693	-----	132,486	810,171	418,596
3	46,993	52,738	880	1,264	16,377	1,160	26,222	933	180	2,829	2,893	55,461	28,079
4	89,551	215,138	5,200	7,280	34,055	4,296	142,642	1,321	633	-----	19,711	253,488	106,560
5	50,363	59,152	250	1,982	10,046	1,994	40,703	2,680	117	-----	1,980	68,733	26,636
6	308,108	246,122	31,743	14,156	74,082	3,203	89,420	160	2,203	-----	31,155	257,833	165,210
7	4,578,085	4,155,983	182,113	170,974	1,005,372	97,044	2,170,142	11,541	23,460	82,804	412,533	4,891,406	2,614,220
8	530,425	520,573	14,344	17,901	99,188	5,005	88,249	-----	2,456	-----	33,430	296,295	213,041
9	467,833	530,161	18,032	16,453	115,963	2,344	336,306	-----	1,697	-----	39,366	548,803	210,153
10	106,997	138,203	4,872	1,040	29,441	1,109	94,260	-----	700	-----	6,781	134,525	39,156
11	326,322	248,733	17,615	19,850	88,097	3,839	74,309	4,529	1,716	15	38,763	292,656	214,504
12	32,758	88,242	-----	-----	26,620	395	41,932	1,095	17,417	-----	873	105,931	63,694
13	17,757,523	17,857,284	355,571	366,921	4,092,269	442,801	10,586,503	6,483	126,409	77,088	1,803,239	20,858,509	9,829,205

furnishing goods, not elsewhere specified, 1; ice, manufactured, 1; iron and steel, steel works and rolling mills, 5; iron and steel doors and shutters, 1; iron and steel forgings, 1; liquors, malt, 3; marble and stone work, 1; mattresses and spring beds, 1; mineral and soda waters, 3; paint and varnish, 3; paper goods, not elsewhere specified, 1; patent medicines and compounds and druggists' preparations, 3; photo-engraving, 1; rubber goods, not elsewhere specified, 2; safes and vaults, 1; saws, 1; signs and advertising novelties, 1; soap, 1; springs, steel, car and carriage, 1; stereotyping and electrotyping, 1; surgical appliances and artificial limbs, 2; tin plate and terneplate, 1; toys and games, 1; wirework, including wire rope and cable, 2.

CINCINNATI.

1	\$150,254,292	\$174,788,679	\$5,825,222	\$6,934,087	\$31,100,972	\$1,913,963	\$100,017,987	\$2,178,707	\$9,004,668	\$2,192,341	\$15,620,732	\$194,515,692	\$92,563,742
2	673,221	1,019,945	44,558	27,598	129,254	8,381	721,189	15,851	1,626	3,431	68,057	1,088,250	358,680
3	90,292	195,598	4,836	19,625	13,845	826	111,532	4,190	469	-----	40,275	254,900	142,602
4	7,656,352	14,208,886	414,573	601,213	3,517,986	51,995	8,531,675	124,626	34,044	123	932,646	14,998,672	6,415,002
5	212,835	294,721	11,732	4,784	81,609	3,363	173,769	4,905	1,810	42	12,707	347,066	169,934
6	442,245	603,243	53,162	16,785	184,858	6,905	284,799	19,134	1,937	-----	35,663	679,170	387,466
7	1,304,131	864,571	44,048	35,457	328,527	12,034	372,733	9,338	5,034	20	57,380	996,195	611,428
8	2,652,881	4,429,625	101,386	135,706	723,094	72,707	2,961,286	75,566	21,691	-----	333,129	5,102,593	2,068,540
9	100,207	73,571	6,160	900	41,173	10,244	3,129	1,200	964	340	9,461	93,649	80,276
10	646,176	779,288	33,444	71,139	77,465	5,444	477,450	6,830	3,347	-----	104,169	825,010	342,116
11	4,477,372	6,008,649	200,463	180,711	1,295,236	41,464	3,660,246	83,984	24,036	17,337	605,172	6,824,715	3,123,005
12	398,490	328,308	4,140	9,618	203,470	9,048	101,911	-----	121	-----	-----	328,308	217,349
13	712,874	724,611	43,270	19,980	76,268	27,483	446,808	8,703	5,260	-----	96,839	898,729	424,438
14	10,211,774	15,338,315	300,939	910,798	2,512,380	54,063	8,626,031	240,745	23,107	1,539,819	1,130,427	16,974,928	8,294,834
15	1,229,502	2,648,176	79,986	136,937	618,775	10,896	1,502,868	44,920	2,915	3,810	247,069	2,912,862	1,399,098
16	1,083,406	1,965,564	24,120	106,393	91,271	11,183	1,584,026	20,155	5,782	-----	122,634	2,110,024	514,815
17	970,132	1,831,106	50,500	88,241	279,006	16,564	1,205,350	35,261	4,552	12,000	139,623	2,029,075	807,152
18	1,445,850	1,219,146	55,028	20,410	291,804	9,248	756,768	7,891	7,280	-----	70,717	1,232,289	460,273
19	2,018,646	2,498,655	79,863	67,310	413,036	19,728	1,613,672	27,145	11,597	2,122	204,184	2,774,597	1,141,199
20	100,595	120,722	8,220	5,048	35,462	4,354	46,613	2,889	574	-----	17,502	136,284	85,317
21	529,186	712,546	55,918	39,446	200,215	8,966	324,529	16,410	3,332	-----	63,730	835,500	502,005

TABLE III.—DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES, AND CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

CINCINNATI—Continued.

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN INDUSTRY.										WAGE EARNERS—NUMBER DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Primary horse-power.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks.		Wage earners (average number).				Total.	16 and over.		Under 16.		
					Male.	Female.	Total.	16 and over.		Under 16.		Male.	Female.	Male.	Female.	
								Male.	Female.							
22 Flags, banners, regalia, society badges, and emblems.	8	498	3	16	51	25	403	118	279	6	355	104	246	1	4	317
23 Flour-mill and gristmill products	6	84	3	8	12	9	52	50	2	.....	52	50	2	.....	.....	685
24 Foundry and machine-shop products	200	10,110	120	433	838	185	8,534	8,449	51	34	10,032	9,931	65	36	.....	12,590
25 Furniture and refrigerators	60	2,306	67	86	94	33	2,026	1,969	49	8	2,266	2,202	56	8	.....	3,499
26 Hats and caps, other than felt, straw, and wool.	12	323	20	11	20	12	260	102	145	13	265	104	148	1	12	33
27 Hosiery and knit goods	6	231	5	4	1	1	220	31	176	13	218	31	174	2	11	192
28 Ice, manufactured	8	168	1	24	10	4	129	129	.....	.....	137	137	.....	.....	.....	3,229
29 Jewelry	15	284	25	8	26	15	210	176	31	3	216	181	32	3	.....	88
30 Leather goods	16	659	20	30	61	15	533	500	27	6	553	519	28	6	.....	230
31 Leather, tanned, curried, and finished	13	1,043	10	17	16	3	997	995	2	.....	1,214	1,211	3	.....	.....	2,269
32 Liquors, distilled	4	300	.....	10	17	2	271	261	10	.....	312	300	12	.....	.....	1,750
33 Liquors, malt	22	1,858	.....	96	181	3	1,578	1,574	4	.....	1,555	1,551	4	.....	.....	11,416
34 Liquors, vinous	5	16	7	1	.....	.....	8	8	.....	.....	9	9	.....	.....	.....	6
35 Lumber and timber products	45	1,866	30	82	88	45	1,621	1,603	2	16	1,677	1,658	2	17	.....	6,808
36 Marble and stone work	25	340	30	13	24	4	269	269	.....	.....	310	310	.....	.....	.....	854
37 Mattresses and spring beds	9	203	10	3	15	10	165	98	57	10	171	102	59	8	2	227
38 Millinery and lace goods	11	494	10	15	26	15	428	42	378	8	393	39	347	2	5	59
39 Models and patterns, not including paper patterns	9	104	11	2	1	1	89	89	.....	.....	90	90	.....	.....	.....	65
40 Musical instruments, pianos and organs and materials	7	760	5	12	25	6	712	646	65	1	784	711	72	1	.....	835
41 Paint and varnish	24	636	19	51	127	31	408	400	8	.....	412	404	8	.....	.....	1,356
42 Paper goods, not elsewhere specified	6	144	7	13	5	6	113	80	31	2	135	95	37	1	2	252
43 Patent medicines and compounds and druggists' preparations	50	448	40	31	129	46	202	106	93	3	222	116	102	2	2	404
44 Pottery, terra-cotta, and fire-clay products	7	276	3	17	12	7	237	192	45	.....	237	192	45	.....	.....	370
45 Printing and publishing	280	5,391	246	277	716	286	3,866	3,070	723	73	4,010	3,183	750	68	9	4,671
46 Safes and vaults	5	703	1	28	62	33	579	577	.....	.....	607	605	.....	.....	.....	970
47 Show cases	3	74	.....	7	3	1	63	63	.....	.....	61	61	.....	.....	.....	118
48 Slaughtering and meat packing	55	1,368	69	51	114	18	1,116	1,053	63	.....	1,202	1,134	68	.....	.....	3,710
49 Soap	16	663	8	25	104	35	491	253	225	13	505	260	232	1	12	699
50 Stoves and furnaces, including gas and oil stoves	15	1,092	3	57	88	72	872	807	5	.....	920	915	5	.....	.....	1,086
51 Tobacco manufactures	208	2,929	228	49	107	19	2,526	937	1,584	5	2,590	961	1,624	5	.....	247
52 All other industries ¹	337	9,017	299	422	760	303	7,224	5,599	1,531	94	7,694	5,966	1,629	73	26	13,315

¹ All other industries embrace: Artificial flowers and feathers and plumes, 1; artificial stone, 1; automobiles, including bodies and parts, 3; awnings, tents, and sails, 7; axle grease, 1; babbitt metal and solder, 4; bags, other than paper, 1; baking powders and yeast, 3; baskets, and rattan and willow ware, 5; belting and hose, leather, 3; rigging and sleds, children's, 4; cash registers and calculating machines, 1; clocks and watches, including cases and materials, 4; cloth, sponging and refinishing, 3; clothing, cotton small wares, 2; dyeing and finishing textiles, 1; electroplating, 6; enameling and japanning, 1; engraving and diesinking, 6; engraving, wood, 2; fancy articles, not elsewhere specified, 6; fertilizers, 1; fire extinguishers, chemical, 1; flavoring extracts, 11; food preparations, 7; foundry supplies, 4; fur goods, 3; furnishing goods, men's, 8; galvanizing, 2; gas and electric fixtures and lamps and reflectors, 8; gas, illuminating and heating, 2; glass, 1; glass, cutting, staining, and ornamenting, 8; glue, 1; gold and silver, reducing and refining, not from the ore, 2; grease and tallow, 9; hair work, 3; hand stamps and stencils and brands, 9; hats, fur-felt, 1; hats, straw, 1; house-furnishing

CLEVELAND.

1 All industries	2,148	98,686	1,718	2,927	7,259	2,054	84,728	69,643	13,746	1,339	94,511	78,201	14,870	630	810	199,898
2 Artificial stone	18	158	19	10	8	.....	121	121	.....	.....	111	111	.....	.....	.....	158
3 Automobiles, including bodies and parts	32	7,115	20	137	460	90	6,408	6,331	64	13	8,388	8,288	84	12	4	9,135
4 Blacking and cleansing and polishing preparations	19	100	16	17	8	8	51	35	16	.....	62	43	19	.....	.....	55
5 Boots and shoes, including cut stock and findings	6	631	8	15	40	11	557	255	205	97	565	259	208	63	35	304
6 Boxes, cigar	5	78	5	3	.....	.....	69	19	50	.....	73	20	53	.....	.....	27
7 Boxes, fancy and paper	6	790	.....	16	22	13	739	366	322	51	773	383	337	1	52	647
8 Brass and bronze products	28	931	23	44	34	29	801	800	1	.....	1,053	1,052	.....	.....	.....	872
9 Bread and other bakery products	198	1,696	201	32	169	65	1,229	1,026	192	11	1,277	1,066	199	7	5	14
10 Brick and tile	13	583	9	19	8	1	546	543	.....	.....	633	630	.....	.....	.....	1,985
11 Carriages and wagons and materials	33	330	38	12	6	7	267	266	1	.....	255	254	1	.....	.....	175
12 Cars and general shop construction and repairs by steam-railroad companies	6	1,473	.....	33	67	1	1,372	1,366	6	.....	1,497	1,490	7	.....	.....	1,640
13 Chemicals	5	557	.....	16	60	12	469	464	5	.....	533	528	5	.....	.....	1,840
14 Clothing, men's, including shirts	93	3,166	110	49	185	77	2,745	914	1,705	126	2,981	992	1,852	5	132	346
15 Clothing, women's	96	6,226	100	121	425	162	5,418	2,270	3,105	43	5,976	2,504	3,422	.....	50	771
16 Confectionery	16	908	10	27	48	20	803	132	484	187	858	141	517	75	125	679
17 Cooperage and wooden goods, not elsewhere specified	10	289	9	7	4	8	261	259	.....	.....	317	314	.....	.....	.....	533
18 Copper, tin, and sheet-iron products	37	1,531	32	41	75	19	1,364	1,097	259	8	1,473	1,184	280	9	.....	1,231
19 Cutlery and tools, not elsewhere specified	15	1,662	11	22	152	33	1,444	1,282	158	4	1,731	1,537	189	2	3	3,246
20 Electrical machinery, apparatus, and supplies	40	1,899	20	85	135	81	1,578	1,002	575	1	1,831	1,163	667	1	.....	1,980
21 Foundry and machine-shop products	231	20,348	121	615	1,364	333	17,915	17,557	251	107	20,809	20,392	297	114	6	24,204
22 Furniture and refrigerators	25	557	19	18	36	17	467	436	25	6	489	456	26	5	2	578
23 Gas and electric fixtures and lamps and reflectors	17	409	16	15	43	9	326	274	52	.....	337	283	54	.....	.....	199
24 Hats and caps, other than felt, straw, and wool	9	132	15	5	12	3	97	45	47	5	104	49	50	.....	.....	11
25 Hosiery and knit goods	13	1,365	12	41	57	21	1,234	189	891	154	1,306	200	943	30	133	407
26 Ice, manufactured	5	131	1	12	4	3	111	105	6	111	105	6	3,266

STATISTICS OF MANUFACTURES.

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TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909—Continued.

CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

CINCINNATI—Continued.

	Capital.	EXPENSES.										Value of products.	Value added by manufacture.
		Total.	Services.			Materials.		Miscellaneous.					
			Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.		
22	\$668,178	\$845,494	\$25,475	\$62,647	\$162,418	\$3,545	\$499,606	\$11,317	\$2,266	\$1,100	\$77,120	\$883,361	\$385,210
23	400,465	1,058,317	14,591	18,196	37,672	8,862	948,407	2,486	2,712	-----	25,391	1,082,770	125,501
24	21,399,975	16,155,737	977,016	898,887	4,984,809	216,750	6,827,185	186,279	113,838	42,960	1,908,013	18,379,658	11,335,723
25	3,024,480	3,549,659	150,847	112,598	1,070,633	32,331	1,694,355	60,743	25,844	2,492	399,821	4,061,953	2,335,267
26	263,776	470,188	19,700	25,142	112,280	2,689	280,839	13,616	384	-----	15,508	532,325	248,797
27	426,362	398,449	15,000	1,200	84,479	3,501	253,868	1,867	1,690	1,000	35,844	441,745	184,376
28	1,851,321	338,244	40,150	10,485	81,332	92,071	31,550	5,049	10,621	-----	66,986	261,665	261,665
29	1,002,184	786,138	15,410	37,054	156,398	3,485	514,074	17,786	2,973	-----	38,958	935,985	418,376
30	1,474,520	1,301,187	46,941	53,945	276,784	7,013	782,656	17,120	6,069	-----	110,659	1,498,788	709,119
31	9,503,170	4,526,007	52,925	18,262	570,074	48,190	3,629,073	5,228	24,999	855	176,401	5,058,920	1,381,657
32	2,833,836	8,398,484	39,887	22,662	178,395	50,511	1,773,953	15,000	6,129,991	-----	188,085	8,744,761	6,920,297
33	15,494,116	7,412,217	330,999	282,616	1,167,743	239,307	1,934,139	9,610	1,592,221	-----	1,855,582	8,873,507	6,700,061
34	56,899	29,440	1,040	-----	5,185	275	19,192	990	1,716	-----	1,042	39,570	20,103
35	6,559,630	4,459,531	186,117	104,444	862,596	35,028	2,851,922	40,328	27,612	1,312	350,172	5,021,098	2,134,148
36	581,067	563,622	18,322	31,804	181,128	9,797	242,089	9,272	3,254	14,200	53,756	631,580	379,694
37	310,942	359,420	3,950	17,775	74,287	3,245	220,044	6,595	953	-----	32,571	394,168	170,879
38	136,086	492,911	21,047	27,781	120,381	2,002	292,155	13,908	556	-----	15,081	546,648	252,491
39	70,495	128,546	4,160	1,344	62,982	2,100	51,525	2,810	307	250	3,068	151,198	97,573
40	1,184,890	1,627,034	36,310	25,609	371,324	3,572	1,076,858	45,490	6,054	-----	61,817	1,752,617	672,187
41	4,026,491	3,307,098	124,362	157,867	214,994	31,744	2,454,057	19,141	26,954	-----	277,979	3,879,810	1,394,009
42	319,039	314,164	21,823	7,206	41,807	4,258	200,707	9,934	1,554	-----	26,865	346,285	141,320
43	953,480	1,021,564	81,016	117,294	89,865	9,713	487,009	15,160	6,780	-----	214,727	1,230,060	733,338
44	727,210	293,077	31,048	13,065	118,107	24,374	27,197	810	3,455	21,970	53,051	370,001	318,430
45	8,450,749	9,600,927	608,354	770,678	2,479,852	97,600	3,251,087	200,043	50,540	445,644	1,097,129	11,519,118	8,170,431
46	1,156,228	1,329,854	76,742	180,058	358,838	10,357	619,483	9,220	9,920	-----	65,236	1,401,157	771,317
47	57,523	121,211	8,140	4,250	42,972	2,502	47,216	4,510	570	-----	11,051	115,538	65,820
48	4,653,922	18,303,786	91,920	112,979	669,064	72,007	16,901,498	14,193	28,996	2,400	410,729	19,320,237	2,346,732
49	1,620,682	2,066,292	60,182	144,897	193,042	19,211	1,339,324	9,545	10,320	543	289,228	2,352,066	993,471
50	2,150,012	2,075,539	100,077	109,049	485,300	21,701	991,354	28,607	13,048	2,685	323,718	2,324,950	1,311,895
51	2,363,702	3,762,550	76,548	112,524	988,422	11,634	1,627,963	61,909	524,783	980	357,787	4,153,232	2,513,635
52	19,605,825	23,886,786	928,777	953,075	3,743,059	459,634	14,641,209	590,398	214,210	74,901	2,280,913	26,639,534	11,538,691

goods, not elsewhere specified, 4; ink, printing, 7; ink, writing, 1; instruments, professional and scientific, 3; iron and steel, steel works and rolling mills, 1; iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills, 1; iron and steel forgings, 3; jewelry and instrument cases, 2; labels and tags, 1; lasts, 1; lead, bar, pipe, and sheet, 4; looking-glass and picture frames, 5; malt, 3; mineral and soda waters, 14; mirrors, 3; muclage and paste, 3; musical instruments and materials, not specified, 3; oil, cottonseed, and cake, 1; oil, not elsewhere specified, 4; oleomargarine, 1; optical goods, 5; paper patterns, 2; pens, fountain, stylographic, and gold, 2; photo-engraving, 6; pulp goods, 1; pumps, not including steam pumps, 2; roofing materials, 3; saws, 2; scales and balances, 2; shipbuilding, including boat building, 3; shoddy, 1; signs and advertising novelties, 5; silverware and plated ware, 4; smelting and refining, not from the ore, 2; sporting and athletic goods, 1; springs, steel, car and carriage, 1; stationery goods, not elsewhere specified, 1; statuary and art goods, 4; stereotyping and electrotyping, 5; surgical appliances and artificial limbs, 8; toys and games, 3; type founding and printing materials, 4; umbrellas and canes, 3; upholstering materials, 2; vinegar and cider, 1; washing machines and clothes wringers, 4; waste, 1; window shades and fixtures, 3; wirework, including wire rope and cable, 9; wood, turned and carved, 8; wool pulling, 1.

CLEVELAND.

1	\$227,397,484	\$245,390,440	\$6,970,282	\$8,535,567	\$48,052,971	\$8,019,953	\$146,895,070	\$1,092,362	\$2,701,598	\$2,074,081	\$21,048,556	\$271,960,833	\$117,045,810
2	164,862	204,828	11,255	4,520	75,984	3,599	88,367	4,434	575	-----	16,094	232,784	140,818
3	16,600,162	18,034,495	374,883	500,588	4,022,846	125,531	10,291,503	17,569	76,636	57,989	2,566,950	21,403,926	10,986,892
4	230,575	279,914	26,260	9,630	28,554	2,505	156,531	4,252	737	-----	51,445	355,069	196,033
5	466,861	857,859	29,159	55,282	225,339	8,338	501,167	8,755	1,756	-----	28,063	951,470	441,965
6	57,302	74,971	5,697	560	18,929	1,058	41,534	1,800	733	-----	4,660	96,885	54,293
7	823,648	1,070,281	39,127	28,412	265,692	12,572	614,414	16,530	4,706	-----	88,828	1,140,581	513,595
8	2,736,769	2,215,990	87,035	33,828	518,327	37,216	1,325,176	10,079	14,642	5,300	184,387	2,567,768	1,205,376
9	2,600,924	4,276,576	65,659	246,171	804,436	76,780	2,645,569	46,779	20,225	-----	370,957	4,730,649	2,008,300
10	960,836	608,999	35,060	7,583	285,688	195,283	17,223	200	5,731	-----	62,231	769,218	556,712
11	429,253	378,833	16,880	7,822	181,601	7,625	134,337	6,600	3,643	1,180	19,245	462,146	320,284
12	1,074,883	2,055,672	45,996	52,764	843,330	29,460	1,047,211	-----	8,545	-----	28,366	2,055,672	979,001
13	1,571,754	1,693,932	72,798	67,783	307,084	86,291	891,950	2,091	21,282	-----	144,653	1,865,957	887,716
14	3,318,688	5,394,031	104,806	268,699	1,095,644	23,509	3,179,261	65,696	13,822	335,989	306,605	5,953,321	2,750,551
15	4,940,533	11,837,165	391,311	734,952	2,903,174	50,425	6,446,062	122,314	16,053	275,642	897,232	12,788,775	6,292,288
16	1,294,403	2,284,974	65,314	84,337	253,380	13,457	1,593,961	24,842	7,178	-----	296,805	2,851,927	1,298,809
17	500,289	688,784	25,281	10,220	136,266	2,748	467,753	4,034	6,758	-----	35,724	708,106	237,605
18	4,781,532	2,680,118	111,679	70,868	639,559	57,779	1,570,122	12,847	14,783	21,350	181,531	2,966,476	1,388,575
19	4,097,066	2,070,762	72,180	155,657	759,362	35,180	626,652	5,885	18,724	15	394,204	2,395,436	1,730,704
20	3,308,386	3,482,087	159,476	186,536	760,159	68,578	1,714,279	42,911	18,536	3,200	531,202	4,035,808	2,255,741
21	41,609,539	32,828,725	1,582,480	1,551,933	10,484,895	760,474	14,563,335	117,641	296,683	83,984	3,387,300	37,443,039	22,119,230
22	660,051	916,679	30,730	41,935	288,072	10,433	480,309	25,094	4,307	-----	35,799	1,068,551	577,809
23	313,359	603,178	32,507	63,988	192,863	7,535	*221,240	11,664	1,322	-----	72,059	653,709	424,934
24	99,620	180,919	8,830	17,618	42,921	936	101,539	4,022	210	296	4,547	198,548	95,073
25	1,894,348	2,709,814	103,080	81,667	484,815	15,100	1,797,709	34,259	5,291	27,384	160,515	2,957,248	1,144,439
26	2,148,856	2,72,508	20,390	4,882	84,932	81,900	21,409	8,520	20,497	-----	29,978	367,612	264,303

TABLE III.—DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES, AND CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

CLEVELAND—Continued.

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN INDUSTRY.										WAGE EARNERS—NUMBER DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Primary horse-power.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks.		Wage earners (average number).			Total.	16 and over.		Under 16.			
					Male.	Female.	Total.	16 and over.			Under 16.	Male.	Female.	Male.	Female.	
								Male.	Female.							
27 Iron and steel, steel works and rolling mills.	14	8,278	2	158	509	71	7,538	7,248	287	3	8,218	7,902	313	3	60,575	
28 Jewelry.	15	124	12	7	1	2	102	93	1	8	104	95	1	3	34	
29 Leather goods.	14	153	10	7	6	5	125	107	18	.....	135	116	19	8	84
30 Leather, tanned, curried, and finished.	4	124	1	11	3	1	108	108	.....	.....	128	128	.....	.....	422
31 Liquors, distilled.	4	6	5	.....	.....	.....	1	1	.....	.....	2	2	.....	.....	14
32 Liquors, malt.	11	904	5	43	106	6	744	743	1	.....	718	717	1	.....	3,395
33 Liquors, vinous.	4	54	3	5	18	.....	28	28	.....	.....	35	35	.....	.....	23
34 Lumber and timber products.	51	1,319	22	68	64	18	1,147	1,147	.....	.....	1,233	1,233	.....	.....	5,263
35 Marble and stone work.	18	367	19	19	9	5	315	315	.....	.....	359	359	.....	.....	789
36 Mattresses and spring beds.	6	173	4	6	9	4	150	101	48	1	154	104	49	1	178	
37 Millinery and lace goods.	6	536	4	16	30	14	472	121	336	15	507	130	361	.....	143
38 Models and patterns, not including paper patterns.	21	229	23	11	1	4	190	173	3	14	207	189	3	15	213	
39 Musical instruments, pianos and organs and materials.	3	52	.....	7	1	2	42	41	1	.....	47	46	1	.....	75
40 Paint and varnish.	24	1,258	5	77	320	96	760	657	102	1	736	636	99	1	2,624	
41 Patent medicines and compounds and druggists' preparations.	50	322	56	29	67	45	125	66	58	1	146	77	68	1	66	
42 Photo-engraving.	3	84	1	11	7	7	58	58	.....	.....	61	61	.....	.....	23
43 Printing and publishing.	245	4,671	171	319	783	294	3,104	2,521	518	65	3,247	2,637	543	51	3,328	
44 Slaughtering and meat packing.	35	1,336	28	51	159	22	1,076	1,075	1	.....	1,074	1,073	1	16	2,570
45 Soap.	6	57	2	6	7	1	41	38	3	.....	42	39	3	.....	143
46 Stoves and furnaces, including gas and oil stoves.	20	2,097	7	46	177	24	1,843	1,828	8	7	2,075	2,059	9	7	1,899	
47 Tobacco manufactures.	254	2,234	277	35	47	9	1,866	709	1,155	2	1,961	745	1,214	1	29	
48 Umbrellas and canes.	5	98	5	5	16	3	69	21	48	.....	66	20	46	.....	12
49 Wall plaster.	3	64	.....	4	3	1	56	56	.....	.....	51	51	.....	.....	63
50 All other industries ¹ .	356	21,081	241	574	1,494	396	18,376	15,234	2,738	404	19,662	16,303	2,922	214	223	63,443

¹ All other industries embrace: Agricultural implements, 2; artificial flowers and feathers and plumes, 2; awnings, tents, and sails, 7; axle grease, 1; bags, other than paper, 2; bags, paper, 1; baking powders and yeast, 1; baskets, and rattan and willow ware, 3; belting and hose, leather, 2; belting and hose, woven and rubber, 2; bicycles, motorcycles, and parts, 3; brooms, 7; brushes, 6; butter, cheese, and condensed milk, 5; butter, reworking, 2; buttons, 2; canning and preserving, 4; carpets, rag, 5; cash registers and calculating machines, 1; clocks and watches, including cases and materials, 2; cloth, sponging and refinishing, 3; clothing, men's, button-holes, 3; coffee and spice, roasting and grinding, 2; coffins, burial cases, and undertakers' goods, 2; cordials and sirups, 3; corsets, 1; dairymen's, poulterers', and apiarists' supplies, 1; drug grinding, 1; dyeing and finishing textiles, 1; electroplating, 3; enameling and japanning, 1; engraving and diesinking, 1; engraving, wood, 1; fancy articles, not elsewhere specified, 2; fertilizers, 1; files, 2; flavoring extracts, 8; flour-mill and gristmill products, 3; food preparations, 17; foundry supplies, 4; fur goods, 8; furnishing goods, men's, 3; galvanizing, 2; gas, illuminating and heating, 3; glass, cutting, staining, and ornamenting, 13; glue, 1; grease and tallow, 2; hair work, 3; hand stamps and stencils and brands, 10; house-furnishing goods, not elsewhere specified, 2; instruments, professional and scientific, 5; iron and steel, blast furnaces, 4; iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills, 10; iron and steel forgings, 10; iron and steel, nails and spikes, cut and wrought, including wire nails, not

COLUMBUS.

1 All industries	586	20,523	435	902	2,158	600	16,428	13,137	3,146	145	17,911	14,280	3,465	137	29	35,780
2 Artificial stone.	5	36	4	5	2	.....	25	25	.....	.....	26	26	.....	.....	.....	84
3 Boots and shoes, including cut stock and findings.	8	2,791	4	47	214	47	2,479	1,423	1,049	7	2,726	1,565	1,151	6	3	385
4 Brass and bronze products.	5	53	5	2	2	.....	44	43	.....	1	42	41	.....	.....	.....	55
5 Bread and other bakery products.	58	642	53	19	106	29	435	333	97	5	449	344	100	1	4	75
6 Brick and tile.	3	37	4	1	.....	.....	32	31	.....	1	58	56	.....	.....	.....	130
7 Carriages and wagons and materials.	14	483	17	29	26	4	407	382	25	.....	368	345	23	.....	.....	477
8 Coffee and spice, roasting and grinding.	3	284	.....	8	199	12	45	35	10	.....	48	37	11	.....	.....	65
9 Copper, tin, and sheet-iron products.	6	173	4	8	16	5	140	140	.....	.....	153	153	.....	.....	.....	93
10 Flour-mill and gristmill products.	4	32	4	5	1	.....	20	20	.....	.....	21	21	.....	.....	.....	815
11 Foundry and machine-shop products.	58	3,745	46	167	457	63	3,012	2,949	54	9	3,220	3,153	57	10	.....	4,148
12 Furniture and refrigerators.	8	422	4	25	15	4	374	333	40	1	420	374	45	1	.....	553
13 Gas and electric fixtures and lamps and reflectors.	9	373	4	12	14	9	334	164	170	.....	360	177	183	.....	.....	263
14 Ice, manufactured.	5	183	.....	11	11	3	158	158	.....	.....	126	126	.....	.....	.....	1,784
15 Leather goods.	11	200	13	12	41	6	128	105	21	2	122	100	20	1	1	127
16 Liquors, malt.	4	561	.....	28	54	6	473	473	.....	.....	462	462	.....	.....	.....	3,045
17 Lumber and timber products.	27	530	20	32	38	6	434	433	.....	1	470	469	.....	1	.....	1,808
18 Marble and stone work.	6	90	5	7	8	.....	70	70	.....	.....	77	77	.....	.....	.....	445
19 Models and patterns, not including paper patterns.	8	49	10	2	1	2	34	34	.....	.....	42	42	.....	.....	.....	58
20 Paint and varnish.	5	119	1	15	35	15	55	49	6	.....	53	47	6	.....	.....	141
21 Patent medicines and compounds and druggists' preparations.	13	281	11	16	56	58	140	88	52	.....	118	75	43	.....	.....	285
22 Printing and publishing.	91	1,433	71	91	263	107	901	678	211	12	944	711	221	8	4	879
23 Slaughtering and meat packing.	6	166	5	5	22	4	130	129	1	.....	133	132	1	.....	.....	365
24 Stoves and furnaces, including gas and oil stoves.	10	360	4	23	28	11	294	288	6	.....	320	314	6	.....	.....	377
25 Tobacco manufactures.	35	278	37	10	7	1	223	54	166	3	247	60	184	3	.....	.....
26 All other industries ¹ .	184	7,222	107	322	544	208	6,041	4,700	1,238	103	6,907	5,373	1,414	103	17	18,909

¹ All other industries embrace: Agricultural implements, 2; automobiles, including bodies and parts, 7; awnings, tents, and sails, 2; axle grease, 1; babbitt metal and solder, 1; baking powders and yeast, 1; baskets, and rattan and willow ware, 1; blacking and cleansing and polishing preparations, 1; boxes, cigar, 1; boxes, fancy and paper, 2; brooms, 9; butter, cheese, and condensed milk, 2; canning and preserving, 1; carpets and rugs, other than rag, 1; carpets, rag, 3; cars and general shop construction and repairs by steam-railroad companies, 2; cars and general shop construction and repairs by street-railroad companies, 2; cash registers and calculating machines, 1; chemicals, 1; clothing, men's, including shirts, 3; clothing, women's, 1; coffins, burial cases, and undertakers' goods, 4; confectionery, 7; cooperage and wooden goods, not elsewhere specified, 2; corsets, 1; cutlery and tools, not elsewhere specified, 3; dentists' materials, 1; dyeing and finishing textiles, 1; electrical machinery, apparatus, and supplies, 2; electroplating, 3; fertilizers, 1; files, 1; flags, banners, regalia, society badges, and emblems, 3; flavoring extracts, 2; food preparations, 6; fur goods, 1; furnishing goods, men's, 4; gas, illuminating and heating, 2; glass, 1; glass, cutting, staining, and ornamenting, 3; gloves and mittens, leather, 2; glucose and starch, 1; hair work, 1; hand stamps and stencils and brands, 1; hats and caps, other than felt, straw, and wool, 2; house-furnishing goods, not elsewhere specified, 1; instruments, professional

STATISTICS OF MANUFACTURES

TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909—Continued.

CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

CLEVELAND—Continued.

	Capital.	EXPENSES.									Value of products.	Value added by manufacture.	
		Total.	Services.			Materials.		Miscellaneous.					
			Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.			Other.
27	\$25,086,577	\$35,672,910	\$342,794	\$505,773	\$5,149,604	\$1,349,590	\$26,689,426		\$137,475	\$22,356	\$1,475,892	\$38,463,316	\$10,424,300
28	114,827	152,008	9,792	1,800	65,973	1,462	60,558		\$6,453	387	5,583	207,897	145,877
29	154,162	247,992	10,000	6,706	67,737	2,345	131,121		8,156	1,042	20,885	270,537	137,071
30	385,757	592,158	14,750	3,420	69,155	7,866	460,296		600	2,289	33,782	636,153	167,991
31	4,140	11,394			556	154	5,401		60	4,935	288	14,341	8,786
32	9,887,715	4,297,248	222,690	135,255	593,579	113,778	1,370,365		240	1,045,746	66,300	749,295	3,640,335
33	194,150	195,410	7,600	10,500	17,450	996	134,550		732	2,760	20,822	206,060	70,514
34	2,380,092	3,834,222	106,169	66,211	698,767	27,772	2,704,637		42,420	16,146	6,240	4,021,326	1,288,917
35	408,909	445,763	23,477	10,778	191,655	8,421	188,623		1,908	3,276	17,625	467,892	270,848
36	208,664	332,977	10,620	7,408	70,824	3,688	203,920		5,904	1,634	3,177	365,067	157,459
37	458,565	1,033,104	46,464	36,750	189,979	6,276	720,185		9,570	1,704	22,176	1,206,250	479,789
38	94,584	206,320	14,460	3,195	123,124	2,884	47,835		6,995	364	7,463	251,264	200,545
39	125,623	88,834	7,870	5,130	31,869	886	28,342		1,600	1,466		93,059	63,831
40	5,393,459	5,884,987	269,314	435,134	468,471	39,685	3,849,293		11,917	27,708		6,138,466	2,249,488
41	429,277	855,813	44,996	78,735	62,188	3,171	312,769		15,246	3,009	348	1,010,113	694,173
42	47,966	132,040	20,071	8,936	49,708	2,090	34,401		2,820	103		143,674	107,183
43	6,944,331	8,378,501	657,426	847,365	2,008,507	81,832	2,698,240		167,017	43,053	429,482	9,634,683	6,854,611
44	3,555,435	16,730,382	106,897	152,638	599,489	73,334	15,325,528		5,880	25,669	1,700	17,192,048	1,793,386
45	108,122	204,926	7,600	8,890	26,445	5,708	142,760		1,056	1,359		213,681	65,213
46	4,092,596	4,411,744	103,101	178,025	1,155,072	43,068	2,243,138		6,988	23,193	76,000	4,977,095	2,690,890
47	926,161	2,476,999	70,509	64,867	734,229	5,661	1,040,843		32,681	306,643	30	2,769,129	1,722,625
48	114,079	219,210	9,614	16,895	25,459	334	142,548		2,949	449		253,049	110,167
49	111,500	186,351	7,088	4,469	31,523	2,913	120,427		5,660	1,317		204,591	81,251
50	69,486,304	61,191,053	1,339,107	1,658,457	9,917,648	4,521,617	37,755,851		157,188	466,496	4,616	67,075,982	24,798,514

made in steel works or rolling mills, 2; labels and tags, 1; lead, bar, pipe, and sheet, 1; looking-glass and picture frames, 3; malt, 1; mineral and soda waters, 25; mirrors, 1; mucilage and paste, 2; musical instruments and materials, not specified, 2; needles, pins, and hooks and eyes, 1; oil, linseed, 1; oil, not elsewhere specified, 10; optical goods, 7; paper and wood pulp, 2; paper goods, not elsewhere specified, 3; paving materials, 1; pens, fountain, stylographic, and gold, 1; petroleum, refining, 2; photographic apparatus and materials, 1; pottery, terra-cotta, and fire-clay products, 3; pumps, not including steam pumps, 2; rubber goods, not elsewhere specified, 2; rules, ivory and wood, 1; safes and vaults, 1; salt, 1; screws, machine, 1; sewing machines, cases, and attachments, 3; shipbuilding, including boat building, 4; shoddy, 3; show cases, 3; signs and advertising novelties, 3; silverware and plated ware, 1; smelting and refining, not from the ore, 2; soda-water apparatus, 1; sporting and athletic goods, 1; springs, steel, car and carriage, 2; stationery goods, not elsewhere specified, 2; statuary and art goods, 3; stereotyping and electrotyping, 3; surgical appliances and artificial limbs, 5; tin plate and tinnerplate, 1; toys and games, 3; type founding and printing materials, 1; typewriters and supplies, 4; vinegar and cider, 2; wall paper, 1; washing machines and clothes wringers, 1; window shades and fixtures, 2; wire, 1; wirework, including wire rope and cable, 17; wood, turned and carved, 4; woolen, worsted, and felt goods, and wool hats, 3.

COLUMBUS.

1	\$48,747,055	\$44,139,253	\$1,658,387	\$2,122,453	\$8,892,420	\$899,561	\$24,304,249	\$262,778	\$787,396	\$328,909	\$4,883,100	\$49,031,872	\$23,828,062
2	37,820	49,511	3,880	720	16,588	544	22,795	560	506	2,500	1,418	56,719	33,380
3	3,181,006	4,984,078	105,633	281,227	1,075,993	20,560	3,203,427	19,382	18,526		259,330	5,435,709	2,211,722
4	76,216	107,112	5,200	1,800	27,978	1,498	63,760	380	568		5,928	123,656	58,398
5	1,607,788	1,588,102	45,861	98,930	222,112	29,140	1,062,497	8,853	8,887		111,822	1,765,227	673,580
6	28,307	21,580	980		13,890	5,095	115	230	216		1,054	35,400	30,190
7	713,901	983,053	52,281	27,384	216,721	5,616	599,839	3,600	5,692		72,020	1,077,805	472,350
8	198,045	548,718	18,615	123,168	19,229	897	328,282	1,400	1,600		55,617	604,054	274,925
9	250,573	589,217	14,900	18,534	70,586	1,531	470,757	3,780	1,925		7,204	700,099	227,811
10	239,150	363,558	7,200	614	15,168	3,817	292,700	600	4,509		38,950	384,213	87,696
11	9,656,325	7,177,732	346,126	389,172	1,840,900	110,564	3,354,654	15,193	64,990	50,550	1,005,583	7,743,744	4,278,526
12	487,055	712,368	34,152	27,184	188,660	6,686	398,138	6,015	3,633	724	47,176	746,931	342,107
13	572,918	602,992	21,069	16,897	141,222	3,911	367,071	4,134	1,548	1,316	45,834	770,215	399,233
14	675,789	208,165	11,920	9,227	90,806	38,175	29,373	168	4,306		24,190	252,888	185,340
15	583,982	534,516	19,544	23,854	74,012	3,324	349,564	10,640	5,389		48,189	580,213	807,325
16	10,633,893	2,475,244	86,233	59,663	371,408	70,814	547,861		428,517		910,763	2,728,143	2,109,468
17	935,895	1,172,117	52,561	32,504	263,934	9,608	747,931	9,998	7,216	5,940	42,425	1,239,540	482,001
18	236,113	137,757	7,220	5,049	47,263	3,483	71,139	1,500	1,175		923	168,928	94,301
19	48,374	41,532	2,000	1,250	22,761	461	10,247	1,104	204	50	3,455	70,059	59,351
20	413,480	517,942	34,300	33,214	27,826	3,512	342,135	1,655	5,780		69,519	601,623	255,976
21	730,445	827,206	30,351	64,717	61,043	3,360	235,760	6,326	9,654		415,995	946,406	707,286
22	1,823,120	2,179,101	151,461	265,966	591,661	25,007	663,612	68,663	9,650	134,124	268,957	2,660,202	1,971,583
23	636,469	2,164,319	7,460	22,220	101,292	15,284	1,948,516		2,393	360	67,054	2,354,447	390,647
24	707,124	674,013	39,880	24,805	173,089	6,081	304,316	3,396	5,406	15,149	101,891	722,354	411,957
25	150,152	398,297	10,220	10,734	81,203	650	154,401	4,681	99,180	21,692	10,536	436,156	281,105
26	14,123,115	15,086,023	549,610	583,620	3,137,080	529,968	8,735,379	90,519	96,066	96,504	1,267,277	16,847,141	7,581,794

and scientific, 2; iron and steel, blast furnaces, 1; iron and steel, steel works and rolling mills, 2; iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills, 3; iron and steel forgings, 5; jewelry, 1; leather, tanned, curried, and finished, 2; looking-glass and picture frames, 1; mattresses and spring beds, 2; millinery and lace goods, 5; mineral and soda waters, 3; mirrors, 1; mucilage and paste, 3; musical instruments and materials, not specified, 1; musical instruments, pianos and organs and materials, 1; oil, not elsewhere specified, 1; oilcloth and linoleum, 1; oleomargarine, 1; optical goods, 2; paper goods, not elsewhere specified, 2; photographic apparatus and materials, 2; photo-engraving, 2; pumps, not including steam pumps, 2; roofing materials, 1; saws, 2; show cases, 4; signs and advertising novelties, 2; soap, 5; stationery goods, not elsewhere specified, 2; stereotyping and electrotyping, 2; surgical appliances and artificial limbs, 2; umbrellas and canes, 1; wall paper, 3; washing machines and clothes wringers, 3; window shades and fixtures, 1; wirework, including wire rope and cable, 6; wood, turned and carved, 2; woolen, worsted, and felt goods, and wool hats, 1.

TABLE III.—DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES, AND CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

DAYTON.

INDUSTRY.	Number of establishments	PERSONS ENGAGED IN INDUSTRY.										WAGE EARNERS—NUMBER DEC. 15, OR NEAREST REPRESENTATIVE DAY.				Primary horse-power.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks.		Wage earners (average number).			Total.	16 and over.		Under 16.			
					Male.	Female.	Total.	16 and over.	Under 16.		Male.	Female.	Male.	Female.		
															Male.		Female.
1 All industries.....	513	24,740	416	860	1,528	387	21,549	17,876	3,572	101	23,605	19,611	3,882	40	72	31,501
2 Boxes, cigar.....	3	97	4	2	4	1	86	25	51	10	95	28	56	4	7	358
3 Boxes, fancy and paper.....	5	594	7	19	21	14	540	189	336	15	564	198	351	.....	15	376
4 Brass and bronze products.....	7	246	7	12	15	2	210	208	2	.....	254	251	3	.....	.....	340
5 Bread and other bakery products.....	65	519	74	12	62	21	350	257	91	2	384	282	100	2	.....	401
6 Brick and tile.....	4	31	5	.....	.....	.....	25	25	.....	.....	42	42	.....	.....	.....	165
7 Carriages and wagons and materials.....	17	425	18	20	11	2	374	371	3	.....	377	374	3	.....	.....	697
8 Clothing, men's, including shirts.....	4	237	4	9	22	6	196	11	174	11	211	12	187	.....	12	125
9 Coffee and spice, roasting and grinding.....	5	271	3	14	94	24	136	52	84	.....	138	53	85	.....	.....	304
10 Confectionery.....	11	176	12	4	9	4	142	46	80	16	182	59	102	.....	21	50
11 Copper, tin, and sheet-iron products.....	11	98	14	5	5	11	63	63	.....	.....	69	69	.....	.....	.....	50
12 Cutlery and tools, not elsewhere specified.....	4	50	2	3	1	4	40	40	.....	.....	51	51	.....	.....	.....	59
13 Electrical machinery, apparatus, and supplies.....	7	134	3	12	5	10	104	97	7	.....	107	100	7	.....	.....	334
14 Flour-mill and gristmill products.....	6	65	8	6	8	2	41	41	.....	.....	40	40	.....	.....	.....	383
15 Foundry and machine-shop products.....	69	4,186	34	170	294	53	3,585	3,474	104	7	4,130	4,000	121	3	6	5,576
16 Furniture and refrigerators.....	10	491	5	30	24	9	423	410	7	6	450	437	7	6	.....	795
17 Liquors, malt.....	3	275	.....	21	30	3	221	221	.....	.....	193	193	.....	.....	.....	2,365
18 Lumber and timber products.....	11	580	9	24	28	7	512	511	.....	1	561	560	.....	1	.....	1,650
19 Marble and stone work.....	6	52	9	.....	2	.....	41	41	.....	.....	44	44	.....	.....	.....	80
20 Mattresses and spring beds.....	3	14	4	.....	.....	.....	10	8	2	.....	10	8	2	.....	.....	100
21 Models and patterns, not including paper patterns.....	5	38	7	.....	.....	.....	31	31	.....	.....	32	32	.....	.....	.....	44
22 Patent medicines and compounds and druggists' preparations.....	11	86	7	16	13	7	43	25	18	.....	26	15	11	.....	.....	35
23 Printing and publishing.....	45	937	39	55	153	60	630	498	128	4	686	542	140	4	.....	1,078
24 Slaughtering and meat packing.....	10	290	8	11	35	.....	245	245	.....	.....	247	247	.....	.....	.....	484
25 Soap.....	6	228	3	21	57	8	139	97	37	5	141	98	38	5	.....	232
26 Tobacco manufactures.....	56	1,544	56	32	23	5	1,428	173	1,255	.....	1,560	189	1,371	.....	.....	52
27 All other industries ¹	129	13,117	81	361	612	129	11,934	10,717	1,193	24	13,011	11,687	1,298	15	11	15,368

¹ All other industries embrace: Agricultural implements, 2; artificial stone, 7; automobiles, including bodies and parts, 6; awnings, tents, and sails, 2; baskets, and rattan and willow ware, 2; blacking and cleansing and polishing preparations, 1; brooms, 3; brushes, 1; butter, cheese, and condensed milk, 1; buttons, 1; canning and preserving, 2; carpets, rag, 1; cars and general shop construction and repairs by steam-railroad companies, 1; cars and general shop construction and repairs by street-railroad companies, 2; cars, steam-railroad, not including operations of railroad companies, 1; cars and general shop construction and repairs by street-railroad companies specified, 2; electroplating, 1; emery and other abrasive wheels, 1; fertilizers, 1; files, 1; flavoring extracts, 3; fur goods, 1; furnishing goods, men's, 2; gas and electric fixtures and lamps and reflectors, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 2; grease and tallow, 1; hand stamps and stencils and brands, 2; house-furnishing goods, not elsewhere specified, 1; ice, manufactured, 2; instruments, professional and scientific, 2; iron and steel, steel works and rolling mills, 1; jewelry, 2;

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1 All industries.....	760	22,900	665	854	1,897	606	18,878	15,279	3,327	272	22,381	18,148	3,893	168	172	43,946
2 Boxes, fancy and paper.....	5	111	2	8	3	1	97	34	62	1	99	35	63	1	.....	78
3 Brass and bronze products.....	6	35	10	2	.....	1	22	20	2	.....	23	21	2	.....	.....	68
4 Bread and other bakery products.....	88	633	96	12	35	22	468	358	126	4	480	347	129	2	2	314
5 Brick and tile.....	8	191	2	10	5	2	172	104	.....	.....	194	185	.....	9	.....	675
6 Carriages and wagons and materials.....	16	602	11	38	26	13	514	512	2	.....	448	446	2	.....	.....	1,283
7 Cars and general shop construction and repairs by steam-railroad companies.....	4	1,330	.....	28	103	1	1,198	1,198	.....	.....	1,140	1,140	.....	.....	.....	935
8 Clothing, women's.....	13	1,282	16	20	81	15	1,150	298	826	26	1,242	322	892	.....	23	155
9 Confectionery.....	12	197	14	8	22	7	146	39	101	6	197	53	136	.....	8	105
10 Cooperage and wooden goods, not elsewhere specified.....	10	134	10	2	4	2	116	107	9	.....	135	125	10	.....	.....	145
11 Copper, tin, and sheet-iron products.....	37	675	37	24	41	26	547	407	139	1	648	482	165	1	.....	265
12 Electrical machinery, apparatus, and supplies.....	7	483	1	19	37	10	416	158	258	.....	413	157	256	.....	.....	248
13 Flour-mill and gristmill products.....	7	257	3	18	27	5	204	204	.....	.....	224	224	.....	.....	.....	3,510
14 Foundry and machine-shop products.....	75	3,768	50	172	297	58	3,191	3,166	22	3	3,809	3,780	26	3	.....	6,931
15 Furniture and refrigerators.....	23	674	18	29	30	17	580	552	14	14	625	597	14	14	.....	884
16 Leather goods.....	4	104	3	4	7	2	88	75	13	.....	88	75	13	.....	.....	36
17 Liquors, malt.....	4	365	.....	16	34	3	312	311	1	.....	314	313	1	.....	.....	1,631
18 Lumber and timber products.....	28	689	21	38	37	8	585	584	1	.....	669	668	1	.....	.....	2,480
19 Marble and stone work.....	6	89	5	9	9	4	62	61	1	.....	68	67	1	.....	.....	142
20 Models and patterns, not including paper patterns.....	7	26	10	.....	.....	.....	16	16	.....	.....	18	18	.....	.....	.....	29
21 Paint and varnish.....	5	61	4	7	13	3	34	30	4	.....	32	28	4	.....	.....	150
22 Patent medicines and compounds and druggists' preparations.....	51	169	50	12	22	9	76	42	31	3	78	43	32	3	.....	154
23 Petroleum, refining.....	3	331	.....	16	41	4	270	270	.....	.....	294	294	.....	.....	.....	540
24 Printing and publishing.....	72	1,219	60	85	238	73	763	584	163	16	807	618	172	14	3	866
25 Slaughtering and meat packing.....	11	40	10	.....	1	2	27	27	.....	.....	27	27	.....	.....	.....	60
26 Tobacco manufactures.....	43	593	51	7	44	5	436	152	334	.....	500	156	344	.....	.....	395
27 Wall plaster.....	6	66	.....	13	5	3	45	45	.....	.....	38	38	.....	.....	.....	380
28 All other industries ¹	204	8,776	181	257	735	310	7,293	5,885	1,218	190	9,771	7,889	1,630	121	131	21,487

¹ All other industries embrace: Artificial stone, 10; automobiles, including bodies and parts, 5; awnings, tents, and sails, 3; bags, paper, 1; belting and hose, leather, 2; bicycles, motorcycles, and parts, 1; billiard tables and materials, 2; blacking and cleansing and polishing preparations, 5; bluing, 1; boxes, cigar, 2; brooms, 4; brushes, 4; butter, reworking, 1; canning and preserving, 1; carpets, rag, 4; carriages and sleds, children's, 3; cars and general shop construction and repairs by street-railroad companies, 1; chemicals, 1; clothing, men's, including shirts, 6; coffee and spice, roasting and grinding, 6; cordage and twine and jute and linen goods, 1; corsets, 2; cutlery and tools, not elsewhere specified, 3; dairymen's, poulterers', and apiarists' supplies, 2; dyeing and finishing textiles, 1; electroplating, 2; engraving, wood, 1; fancy articles, not elsewhere specified, 2; firearms and ammunition, 1; fire extinguishers, chemical, 1; flavoring extracts, 4; food preparations, 4; fur goods, 4; furnishing goods, men's, 5; gas and electric fixtures and lamps and reflectors, 3; gas, illuminating and heating, 2; glass, 2; glass, cutting, staining, and ornamenting, 3; gloves and mittens, leather, 1; grease and tallow, 1; hand stamps and stencils and brands, 3; hats and caps, other than felt, straw, and wool, 2; hosiery and knit goods, 3; house-furnishing goods, not elsewhere specified, 1; ice, manufactured, 2; instruments, professional and scientific, 2; iron and steel, steel works and rolling mills, 1; jewelry, 2;

STATISTICS OF MANUFACTURES.

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TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909—Continued.

CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

DAYTON.

	Capital.	EXPENSES.										Value of products.	Value added by manufacture.	
		Total.	Services.			Materials.			Miscellaneous.					
			Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.			
1	\$61,315,917	\$53,591,808	\$2,051,115	\$1,520,806	\$12,450,608	\$717,382	\$28,810,436	\$205,288	\$678,288	\$68,214	\$9,089,671	\$80,378,376	\$32,850,588	
2	74,966	80,201	1,560	3,420	22,749	913	45,069	1,200	386	.....	4,304	85,168	38,586
3	880,903	836,866	42,656	22,626	195,515	6,092	479,585	5,765	5,415	.....	79,212	931,571	446,194
4	493,762	447,956	26,250	21,249	145,048	7,464	205,863	1,345	4,476	.....	36,261	480,630	267,303
5	719,288	1,277,480	23,600	62,152	187,007	24,555	924,478	13,166	7,300	.....	35,222	1,531,019	531,986
6	27,300	17,778	810	.....	10,565	3,975	450	.....	153	.....	1,825	25,950	21,525
7	676,691	682,064	39,186	12,586	202,792	9,717	337,471	6,542	5,028	.....	68,742	801,968	454,780
8	211,965	331,907	7,890	18,472	71,272	1,578	207,819	2,725	1,496	.....	20,655	353,607	144,210
9	1,164,519	2,022,984	45,090	98,112	72,854	7,643	1,599,165	5,380	5,831	.....	188,909	2,244,959	638,151
10	104,452	280,918	4,100	7,000	51,224	3,420	192,956	6,590	781	.....	10,997	339,239	142,863
11	77,407	148,739	3,398	1,660	44,207	649	87,357	2,604	1,052	.....	7,812	177,869	89,863
12	51,310	44,771	4,200	2,350	21,385	1,105	6,219	600	531	.....	8,381	61,940	54,616
13	231,702	191,503	19,920	8,609	48,629	3,522	86,235	3,408	511	.....	20,169	234,969	145,212
14	265,965	621,588	16,500	8,934	27,889	5,210	542,447	360	2,876	.....	17,372	668,541	120,884
15	9,530,033	6,080,801	308,360	274,626	2,033,259	154,092	2,646,397	33,734	45,493	.....	8,554	6,777,823	3,977,334
16	1,086,619	661,712	36,748	24,947	200,125	10,725	276,451	3,172	4,749	.....	1,349	103,446	456,504
17	5,749,904	888,941	50,353	37,987	148,418	51,231	209,696	1,274	194,607	.....	195,375	1,218,394	957,407
18	1,107,551	1,338,104	41,696	27,759	324,561	11,307	866,485	1,840	5,396	.....	8,753	1,417,044	539,252
19	59,335	83,722	.....	3,436	32,797	734	38,340	1,455	190	.....	1,500	94,620	55,546
20	18,700	34,675	.....	.....	7,780	352	23,984	600	183	.....	1,771	41,248	16,912
21	9,635	26,324	.....	.....	19,656	40	5,200	1,244	35	.....	149	35,200	29,960
22	101,441	144,620	32,669	14,646	10,191	816	50,388	4,076	367	.....	31,467	183,371	132,167
23	1,198,168	1,258,852	125,096	129,960	385,701	17,484	422,083	20,747	8,630	.....	34,396	1,552,151	1,112,584
24	1,048,287	2,925,251	14,808	36,968	145,216	20,309	2,615,466	.....	3,309	.....	83,675	3,170,916	535,141
25	1,076,916	1,082,018	41,188	60,187	51,275	8,246	762,581	1,200	5,531	.....	151,810	1,305,738	534,911
26	699,909	1,770,479	40,455	32,775	486,916	2,881	828,447	14,785	211,519	.....	182,701	1,892,529	1,081,201
27	34,649,789	30,311,554	1,124,582	610,345	7,503,577	363,322	13,349,204	71,476	161,938	.....	9,312	34,007,872	20,295,346

labels and tags, 2; lasts, 1; leather goods, 3; millinery and lace goods, 2; mineral and soda waters, 4; mirrors, 1; mucilage and paste, 2; musical instruments, pianos and organs and materials, 1; paint and varnish, 6; paper and wood pulp, 2; paper goods, not elsewhere specified, 2; peanuts, grading, roasting, cleaning, and shelling, 1; pottery, terra-cotta, and fire-clay products, 1; pulp goods, 1; pumps, not including steam pumps, 1; roofing materials, 1; rubber goods, not elsewhere specified, 2; saws, 1; scales and balances, 2; screws, machine, 1; screws, wood, 1; sewing machines, cases, and attachments, 1; signs and advertising novelties, 2; stationary goods, not elsewhere specified, 3; stoves and furnaces, including gas and oil stoves, 4; toys and games, 2; umbrellas and canes, 1; upholstering materials, 1; vault lights and ventilators, 1; wall plaster, 2; washing machines and clothes wringers, 2; wirework, including wire rope and cable, 2; wood, turned and carved, 2.

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1	\$58,318,902	\$54,560,292	\$1,638,366	\$1,993,243	\$9,910,729	\$1,748,788	\$32,334,801	\$295,283	\$1,115,429	\$278,056	\$5,245,599	\$61,229,542	\$27,146,955
2	85,650	103,975	8,633	3,500	25,630	1,530	56,859	2,580	201	.....	5,042	103,097	44,708
3	43,033	47,302	1,560	520	12,623	1,618	26,689	780	464	.....	757	52,218	23,911
4	663,393	1,444,709	21,080	43,419	260,222	40,479	918,223	19,993	5,112	.....	35	1,597,955	639,223
5	232,536	152,867	10,460	3,830	80,213	33,527	1,918	1,650	2,524	.....	1,000	177,088	141,643
6	2,369,889	1,066,678	61,752	42,883	257,048	18,821	590,255	6,115	13,848	.....	75,956	1,317,140	708,064
7	533,701	1,427,301	31,080	84,066	633,646	17,813	656,616	.....	2,580	.....	1,500	1,427,302	752,873
8	788,049	2,165,428	54,320	122,088	491,731	7,941	1,367,509	26,225	2,291	.....	93,323	2,323,418	947,968
9	119,095	343,062	13,060	18,905	50,639	4,098	230,549	6,212	473	.....	3	410,786	176,139
10	132,682	171,848	3,200	3,200	52,405	2,073	109,972	423	929	.....	5,646	194,902	88,917
11	3,556,574	1,153,753	44,856	40,588	282,356	10,772	638,534	8,616	5,034	.....	50	1,303,243	653,937
12	721,745	635,040	27,283	27,840	168,311	7,494	281,519	2,689	3,243	.....	116,661	932,223	643,210
13	2,484,964	5,315,759	53,685	30,305	140,470	30,953	4,900,076	.....	10,728	.....	149,542	5,662,191	731,162
14	8,955,532	6,462,587	285,430	335,739	1,904,954	155,575	3,005,491	80,937	52,850	.....	16,996	7,023,984	3,862,918
15	1,069,131	1,048,507	51,794	34,272	302,645	13,165	531,863	12,053	9,294	.....	22,409	1,128,287	583,229
16	78,875	135,153	4,400	6,225	34,640	1,079	70,428	1,184	692	.....	10,505	139,128	61,621
17	7,107,725	1,529,989	49,598	41,976	250,031	42,356	409,499	.....	349,770	.....	386,759	1,887,344	1,435,489
18	1,432,732	1,615,155	61,525	34,203	286,300	9,489	1,101,839	13,439	12,042	.....	6,000	1,792,802	681,464
19	187,516	179,465	13,000	8,790	42,775	1,702	105,839	310	818	.....	6,231	196,668	109,117
20	15,010	15,368	.....	.....	8,600	423	4,785	1,063	71	.....	426	23,622	18,414
21	271,268	230,435	9,960	11,692	19,651	2,684	155,550	2,440	662	.....	27,796	252,194	93,960
22	311,570	398,019	19,609	23,027	36,034	2,515	146,242	8,189	1,369	.....	558	539,822	391,065
23	2,636,194	2,252,287	62,750	40,454	156,551	150,434	1,694,687	.....	13,608	.....	133,807	2,431,170	586,049
24	1,550,679	1,717,993	152,241	200,524	480,148	23,987	499,407	43,662	6,615	.....	27,116	2,044,334	1,480,940
25	68,200	326,570	.....	2,050	19,016	1,856	292,296	1,220	748	.....	3,290	6,094	375,743
26	541,469	1,784,797	21,299	38,535	145,505	3,668	791,678	14,740	496,024	.....	273,348	2,129,436	1,334,090
27	113,828	193,451	13,280	4,402	25,498	6,172	124,085	2,092	802	.....	17,122	220,752	80,495
28	22,247,862	22,647,794	562,511	790,213	3,743,029	1,156,552	13,622,363	88,671	122,637	.....	199,842	2,361,976	10,783,758

elsewhere specified, 1; ice, manufactured, 3; instruments, professional and scientific, 1; iron and steel, blast furnaces, 1; iron and steel, steel works and rolling mills, 2; iron and steel forgings, 1; iron and steel pipe, wrought, 1; jewelry, 1; liquors, vinous, 1; looking-glass and picture frames, 3; mattresses and spring beds, 1; millinery and lace goods, 4; mineral and soda waters, 5; mirrors, 3; mucilage and paste, 2; oil, linseed, 3; oil, not elsewhere specified, 2; optical goods, 3; paper and wood pulp, 1; paving materials, 1; peanuts, grading, roasting, cleaning, and shelling, 1; pens, fountain, stylographic, and gold, 5; photo-engraving, 3; pottery, terra-cotta, and fire-clay products, 1; rubber goods, not elsewhere specified, 2; safes and vaults, 1; saws, 1; scales and balances, 1; shipbuilding, including boat building, 9; show cases, 1; signs and advertising novelties, 2; soap, 1; sporting and athletic goods, 3; springs, steel, car and carriage, 1; stereotyping and electrotyping, 1; stoves and furnaces, including gas and oil stoves, 2; surgical appliances and artificial limbs, 4; toys and games, 2; umbrellas and canes, 1; upholstering materials, 1; wheelbarrows, 1; wirework, including wire rope and cable, 2; wood, turned and carved, 2.

SUPPLEMENT FOR OHIO.

TABLE III.—DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES, AND CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

YOUNGSTOWN.

INDUSTRY AND CITY.	Number of establishments	PERSONS ENGAGED IN INDUSTRY.										WAGE EARNERS—NUMBER DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Primary horse-power.
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks.		Wage earners (average number).			Total.	16 and over.		Under 16.				
					Male.	Female.	Total.	16 and over.			Under 16.	Male.	Female.	Male.	Female.		
								Male.	Female.								
1 All industries.....	115	11,851	94	255	833	171	10,498	10,214	272	12	12,524	12,178	334	10	2	140,907	
2 Bread and other bakery products.....	22	100	27	3	8	65	58	3	4	67	60	3	2	2	23		
3 Carriages and wagons and materials.....	3	74	2	3	1	64	63	1	.....	69	68	1	.....	.....	88	
4 Foundry and machine-shop products.....	15	1,453	4	60	170	66	1,153	1,148	5	.....	1,518	1,512	6	.....	2,674	
5 Iron and steel, steel works and rolling mills.	7	7,128	.....	95	356	27	6,650	6,650	.....	.....	7,776	7,776	.....	.....	75,530	
6 Lumber and timber products.....	8	232	7	14	7	5	199	199	.....	.....	178	178	.....	.....	615	
7 Printing and publishing.....	13	251	9	13	48	17	164	136	21	7	189	140	22	7	188		
8 Tobacco manufactures.....	6	39	7	1	1	.....	30	16	14	.....	38	20	18	.....	.....
9 All other industries ¹	41	2,574	38	69	247	47	2,173	1,944	228	1	2,709	2,424	284	1	.....	61,789

¹ All other industries embrace: Artificial stone, 3; awnings, tents, and sails, 1; brass and bronze products, 1; butter, cheese, and condensed milk, 1; carpets, rag, 1; cars, steam-railroad, not including operations of railroad companies, 1; clothing, men's, including shirts, 1; coffee and spice, roasting and grinding, 1; dentists' materials, 1; electrical machinery, apparatus, and supplies, 1; electroplating, 1; flour-mill and gristmill products, 2; food preparations, 2; gas and electric fixtures and lamps and

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

1 ALLIANCE.....	44	3,026	35	71	288	108	2,524	2,385	131	8	2,890	2,731	149	3	7	3,453
2 ASHTABULA.....	44	1,601	31	49	31	19	1,471	1,334	128	9	1,563	1,417	136	9	1	2,379
3 BELLAIRE.....	36	2,846	44	65	103	37	2,597	2,301	254	42	3,245	2,874	319	28	24	17,790
4 CAMBRIDGE.....	32	1,406	30	28	102	16	1,230	1,174	56	.....	1,599	1,526	73	.....	.....	5,055
5 CHILLICOTHE.....	57	1,872	59	43	74	22	1,674	1,157	517	.....	2,072	1,432	640	.....	.....	3,558
6 EAST LIVERPOOL.....	82	5,254	49	143	136	53	4,873	3,587	1,218	68	5,216	3,841	1,302	40	33	5,528
7 ELYRIA.....	58	3,117	30	100	226	88	2,673	2,357	289	27	2,929	2,583	317	15	14	9,058
8 FINDLAY.....	74	1,623	67	55	85	40	1,376	921	454	1	1,513	1,012	500	1	.....	2,574
9 HAMILTON.....	125	7,770	81	191	451	152	6,895	6,047	752	96	7,394	6,489	804	59	42	22,503
10 IRONTON.....	63	2,119	51	72	43	33	1,920	1,647	269	4	2,083	1,788	291	.....	4	15,548
11 LANCASTER.....	42	1,657	48	33	33	11	1,532	1,118	412	2	1,664	1,214	448	1	1	2,453
12 LIMA.....	85	3,899	79	67	116	30	3,607	2,474	1,082	51	3,946	2,706	1,185	55	.....	3,264
13 LORAIN.....	57	7,347	36	155	398	61	6,697	6,674	20	3	8,014	7,987	24	3	.....	208,992
14 MANSFIELD.....	121	3,901	120	142	338	97	3,204	2,201	984	19	3,360	2,307	1,033	16	4	5,077
15 MARIETTA.....	66	1,549	59	66	103	33	1,288	1,181	106	1	1,423	1,305	117	1	.....	2,742
16 MARION.....	55	3,028	40	79	248	42	2,619	2,344	272	3	3,202	2,866	332	.....	4	3,686
17 MASSILLON.....	56	2,193	37	91	102	29	1,934	1,826	87	21	2,330	2,199	105	25	1	4,730
18 MIDDLETOWN.....	41	2,992	22	93	228	73	2,576	1,805	769	2	2,752	1,928	822	.....	2	9,304
19 NEWARK.....	72	4,282	63	82	148	76	3,913	3,576	286	51	4,096	3,743	259	52	2	8,630
20 NORWOOD.....	49	4,445	31	95	286	126	3,907	3,215	684	8	4,114	3,384	722	.....	3	6,381
21 PIQUA.....	82	3,073	74	95	170	51	2,683	1,913	751	19	2,964	2,198	834	6	16	5,062
22 PORTSMOUTH.....	75	4,319	54	164	241	132	3,728	2,237	1,390	101	4,234	2,539	1,579	45	71	4,028
23 SANDUSKY.....	91	2,518	59	133	148	60	2,118	1,608	466	44	2,487	1,880	548	15	38	4,856
24 SPRINGFIELD.....	195	8,634	161	283	561	224	7,405	6,616	777	12	7,997	7,145	839	10	3	10,179
25 STEUBENVILLE.....	55	4,638	55	116	164	36	4,267	4,045	196	26	4,600	4,363	210	19	8	37,748
26 TIFFIN.....	75	1,970	78	60	142	58	1,632	1,289	278	65	1,883	1,489	319	46	29	3,257
27 WARREN.....	68	2,174	41	98	163	74	1,798	1,190	547	61	2,197	1,455	668	3	71	5,530
28 ZANESVILLE.....	109	3,586	95	76	211	54	3,150	2,800	325	25	3,569	3,173	367	26	3	8,783

STATISTICS OF MANUFACTURES.

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TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909—Continued.

CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

YOUNGSTOWN.

	Capital.	EXPENSES.										Value of products.	Value added by manufacture.
		Total.	Services.			Materials.		Miscellaneous.					
			Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.		
1	\$87,180,357	\$74,806,867	\$660,173	\$932,588	\$7,834,685	\$6,963,880	\$55,328,094	\$24,773	\$476,206	\$23,212	\$2,563,266	\$81,270,747	\$18,978,773
2	89,829	182,256	-----	2,736	38,148	4,036	128,799	4,314	1,211	-----	3,012	249,237	116,402
3	113,041	137,261	6,200	6,500	39,970	1,334	64,700	480	1,333	-----	16,744	145,600	79,566
4	5,822,456	4,301,873	146,151	192,094	800,296	58,716	2,643,724	2,038	28,886	-----	429,908	4,865,305	2,162,865
5	50,515,874	47,317,691	298,848	370,709	5,204,351	1,751,460	38,217,155	-----	168,279	-----	1,306,889	50,175,153	10,206,538
6	730,990	838,567	21,580	10,008	135,095	3,467	650,057	510	4,958	-----	12,892	952,941	299,417
7	402,483	369,322	24,676	57,395	108,976	5,414	122,163	5,886	1,657	4,200	38,985	454,407	326,830
8	18,417	29,201	600	800	11,990	24	9,653	535	5,579	-----	20	37,927	28,250
9	29,467,267	21,630,696	162,118	292,346	1,495,859	5,139,429	13,491,843	11,010	264,303	19,012	754,776	24,390,177	5,758,905

reflectors, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 2; gloves and mittens, leather, 1; ice, manufactured, 1; iron and steel, blast furnaces, 5; leather goods, 1; liquors, malt, 2; marble and stone work, 1; mattresses and spring beds, 1; mineral and soda waters, 2; models and patterns, not including paper patterns, 2; photo-engraving, 1; slaughtering and meat packing, 1; umbrellas and canes, 1; wall plaster, 1.

CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

1	\$7,211,616	\$5,541,577	\$141,613	\$305,068	\$1,462,314	\$112,289	\$2,740,565	\$6,404	\$38,628	\$1,350	\$733,346	\$8,135,429	\$3,282,575
2	2,075,887	3,173,269	109,660	37,515	814,175	48,834	2,034,944	5,582	13,512	800	117,247	3,458,612	1,374,834
3	6,426,806	9,203,873	105,584	119,585	1,412,182	788,958	6,370,450	3,378	65,424	15,885	322,927	10,091,554	2,932,146
4	2,379,213	4,051,312	30,682	74,214	919,104	85,096	2,799,816	3,457	18,445	5,723	114,775	4,290,560	1,405,648
5	2,364,433	4,064,657	53,988	80,901	707,244	79,023	2,958,750	6,820	66,955	1,725	109,251	4,345,224	1,307,451
6	7,988,058	6,252,881	246,068	202,134	2,764,115	443,457	2,077,625	7,843	62,706	480	448,453	6,629,076	4,107,994
7	7,323,594	7,045,012	213,640	250,241	1,572,832	127,441	4,367,541	9,320	35,196	2,393	466,408	8,064,914	3,569,932
8	2,955,044	3,115,895	90,750	95,146	573,601	109,742	1,984,616	9,361	34,068	350	218,201	3,486,793	1,392,435
9	24,628,608	16,603,005	560,571	757,592	3,798,440	410,654	9,229,705	24,280	184,200	6,823	1,630,740	18,183,693	8,543,334
10	4,993,282	6,359,467	111,689	85,988	887,788	719,942	4,274,029	7,855	111,306	16,399	144,471	7,118,259	2,124,288
11	1,458,899	3,926,325	42,404	32,495	677,326	42,901	3,008,227	2,118	19,934	-----	100,920	4,074,004	1,022,876
12	5,487,852	7,002,077	215,655	146,970	2,023,902	126,532	3,742,719	14,779	256,176	1,093	474,251	7,753,877	3,884,626
13	34,386,551	30,443,247	368,423	393,533	4,787,822	4,270,634	19,950,950	5,366	253,542	50	412,927	38,986,996	14,765,412
14	8,538,840	7,308,564	229,499	355,164	1,472,087	105,865	4,250,591	21,636	141,273	-----	732,449	8,172,911	3,816,455
15	3,275,321	2,798,292	100,117	89,683	594,406	48,365	1,738,520	17,728	51,537	8,410	149,526	3,214,553	1,427,668
16	7,864,474	5,043,207	152,860	263,270	1,404,956	68,198	2,509,200	11,981	48,328	171,288	413,126	5,666,976	3,089,578
17	7,787,668	4,091,529	181,369	100,346	1,127,092	146,747	2,142,911	4,422	42,734	350	345,558	4,787,772	2,498,114
18	10,563,845	14,172,065	240,752	232,239	1,389,143	281,778	7,668,603	14,387	2,182,525	-----	2,162,638	16,518,785	8,566,404
19	9,035,816	6,974,303	150,175	165,224	1,957,796	212,839	3,768,718	5,942	77,848	580	635,181	7,851,118	3,869,561
20	13,367,715	8,534,513	281,235	350,277	2,080,567	68,601	3,952,172	9,522	329,475	18,300	1,444,364	9,684,332	5,663,559
21	5,443,594	6,103,857	240,225	161,712	1,292,246	87,418	3,764,853	12,344	37,898	3,863	503,298	6,930,672	3,078,401
22	6,385,461	6,525,539	243,137	436,596	1,458,546	83,336	3,811,107	14,333	60,382	215	417,887	7,276,893	3,382,450
23	6,494,693	4,991,122	201,747	151,216	1,006,006	105,743	2,729,425	12,575	173,492	-----	610,918	5,946,853	3,111,685
24	22,485,382	16,574,878	574,925	686,877	3,984,818	225,956	8,693,106	47,992	170,330	52,000	2,138,874	19,246,141	10,327,079
25	18,423,529	18,455,386	241,004	162,275	3,203,068	1,459,598	12,983,494	8,095	114,655	400	282,797	21,187,127	6,744,035
26	3,726,917	2,694,897	90,022	134,406	828,017	98,128	1,154,138	8,827	63,492	887	316,980	3,254,328	2,002,062
27	4,511,041	5,130,966	233,469	187,850	910,745	94,649	2,968,886	7,799	18,505	259,582	449,481	5,988,174	2,924,639
28	6,025,109	8,326,902	133,971	217,339	1,793,077	232,580	5,271,226	17,645	66,305	1,905	592,854	9,144,953	3,641,147

CHAPTER 5.

MINES AND QUARRIES.

Introduction.—The present chapter contains a complete statement of the statistics of all mining industries, which include all mines, quarries, and wells in the state of Ohio for the year 1909, as shown by the Thirteenth Census.

A brief explanation of the scope of the census of mining industries and of the terms used, in so far as the usage differs from that followed in the census of manufactures, is presented below in order to prevent any misinterpretation of the statistics.

The explanations here given show the usage of the mining census generally, though some of the special rules have obviously no relation to particular states in which the industries referred to do not exist.

Scope of census.—The Thirteenth Census covered all classes of mines, quarries, and petroleum and gas wells that were in operation during any portion of the year 1909, both those which were producing and those whose operations were confined to development work. Mines, quarries, or wells that were idle during the entire year 1909 were omitted from the canvass. The following operations were likewise omitted from the canvass: Prospecting; the digging or dredging of sand and gravel for the construction of roads and for building operations; the production of mineral waters; and the operation of small bituminous coal banks producing less than 1,000 tons annually. Where the mineral products are not marketed in their crude condition, but are dressed or washed at the mine or quarry, the statistics of mining cover the entire work of obtaining the crude material and its preparation for the market.

Period covered.—The returns cover the calendar year 1909, or the business year which corresponds most nearly to that calendar year. The statistics cover a year's operations, except for enterprises which began or discontinued business during the year.

Number of operators.—As a rule, the unit of enumeration was the "operator." Every individual, firm, or corporation was required to furnish one report for all mines, quarries, or wells which were operated under the same management or for which one set of books of account was kept. Separate reports were obtained for all properties operated in different states, even where they were owned by the same operator. Likewise, where the operations of one individual, firm, or corporation covered more than one class of mines and quarries, such as coal, iron, limestone, etc., a separate report was received for each industry.

Number of mines, quarries, and wells.—This figure represents the total number of mines and quarries in operation or in the course of development at any time during the calendar year 1909, or the business year that corresponds most nearly to that calendar year, and the number of completed petroleum and natural gas wells in operation on December 31, 1909.

In most mining and quarrying industries the number of mines or quarries varies but little from the number of operators.

Expenses of operation and development.—A certain amount of development work is incidental to the operation of every mine. The expenses reported for producing mines include the cost both of operation and of development work which was done in connection with operation.

Wages.—The amount shown as wages includes only the compensation of regular wage earners hired by the day, week, or month, or under the piecework system.

Supplies and materials.—This item includes the cost of lumber and timber used for repairs, mine supports, track ties, etc.; iron and steel for blacksmithing; rails, frogs, sleepers, etc., for tracks and repairs; renewals of tools and machinery and materials for repairs; and supplies, explosives, oil, etc., as well as the cost of fuel and the rent of power. The schedule called only for the cost of such supplies and materials as had been used during the year covered by the report. Accurate figures, however, could be furnished only in those cases where the operators kept an account of supplies and materials used, or had an inventory made of all in stock at the beginning and at the end of the year. Such a system of accounting is far from general among mine operators, and there is reason to believe that in many cases the reported cost of supplies and materials covered all purchased during the year rather than those used during the year. The crude product of some operators was purchased by others for further dressing or refining; the cost of such materials is shown separately in the general table.

Capital.—The census schedule required every operator to state the total amount of capital invested in the enterprise on the last day of the business year reported, as shown by his books. There is, however, a great diversity in the methods of bookkeeping in use by different operators. As a result, the statistics for capital lack uniformity. Some of the figures reported apparently represent capital stock at face value; others include large investments in mineral lands which are not at present being actively mined, but are held in reserve; still others may include expenditures for unproductive mining ventures in no way related to the operations carried on during the census year.

Persons engaged in mining industries.—The statistics of the number of operators and officials, clerks, and wage earners are based on the returns for December 15, or the nearest representative day. The reported number of wage earners includes overseers and foremen performing work similar to that of the men over whom they have charge; those whose duties are wholly supervisory are classed as superintendents and managers. Because of the common practice of shutting down mines at frequent intervals, it is impossible to ascertain with any satisfactory degree of accuracy the average number of employees—that is, the number who, if continuously employed, would be required to produce the actual output of the year.

Value of products.—Statistics of the value of mineral products were obtained by the Bureau of the Census in cooperation with the United States Geological Survey, but the two bureaus follow different methods in presenting these statistics. The Geological Survey shows separately the value of each mineral product, whereas the Bureau of the Census presents the value of products of each mining industry. The value of products given for a mining industry often includes the value of some products not covered by the industry designation. The crude product of metalliferous mines may include varying combinations of metals, such as gold, silver, copper, lead, zinc, and iron. Similarly, the total value of all products of the granite quarries is not identical with the value of the total output of granite, but may include the value of some marble or other stone quarried in connection with the principal product.

The value of products for 1909 in most cases represents the value of the products marketed during that year, not the value of those mined during that year.

MINING IN OHIO.

Summary.—Statistics for all mining enterprises in the state of Ohio are presented in Table 7, which gives statistics for all industries combined and for producing enterprises separately in all cases where the statistics could be given without disclosing the operations of an individual enterprise. Nonproducing enterprises are also given separately from producing enterprises.

The gross value of the products of all mines, quarries, and wells in Ohio in 1909 amounted to \$63,767,112. Deducting from this amount, \$5,376,075, the value of the natural gas produced and sold by some operators to others who sold it again, leaves \$58,391,037 as the net value of the products. This gives Ohio a rank of seventh among the states in the value of mineral products. The principal industries were bituminous coal mining and the production of petroleum and natural gas, which reported products valued respectively at \$27,353,663 and \$24,244,884.

Character of organization.—Table 1 classifies the producing mining operations of the state under form of organization, distinguishing corporations from individual owners and firms.

INDUSTRY AND CHARACTER OF ORGANIZATION.	PRODUCING ENTERPRISES: 1909					
	Number of operators.	Number of wage earners.	Value of products.		Per cent distribution.	
			Total.	Per operator.	Operators.	Wage earners.	Value of products.
All industries.....	1,876	57,185	\$63,767,112	\$33,991	100.0	100.0
Individual.....	580	2,782	2,606,017	4,493	30.9	4.1
Firm.....	712	3,119	4,915,846	6,904	38.0	7.7
Corporation.....	563	51,202	55,763,835	99,048	30.0	89.5
Other.....	21	82	481,414	22,924	1.1	0.1
Petroleum and natural gas.....	1,188	5,897	29,620,959	24,933	100.0	100.0
Individual.....	303	309	1,275,171	4,208	25.5	4.3
Firm.....	578	587	3,236,242	5,509	48.7	10.0
Corporation.....	287	4,919	24,638,448	85,848	24.2	83.2
Other.....	20	82	471,098	23,555	1.7	1.4
Bituminous coal.....	441	44,405	27,353,663	62,026	100.0	100.0
Individual.....	171	1,688	927,886	5,426	38.8	3.4
Firm.....	81	1,587	1,023,073	12,631	18.4	3.6
Corporation.....	189	41,130	25,402,704	134,406	42.9	92.6

	Incorporated.	Unincorporated.
Number of operators.....	563	1,313
Number of mines and quarries.....	489	475
Number of wells.....	20,940	14,127
Proprietors and firm members, total.....		3,064
Number performing manual labor.....		571
Salaried employees:		
Officers of corporations.....	448	
Superintendents and managers.....	659	162
Clerks and other salaried employees.....	1,250	106
Wage earners, Dec. 15, 1909, or nearest representative day.....	51,202	5,983
Capital.....	\$141,720,906	\$19,603,623
Expenses of operation and development.....	48,171,472	5,681,058
Salaries—		
Officers of corporations.....	767,806	
Superintendents and managers.....	851,640	130,316
Clerks and other salaried employees.....	970,991	54,231
Wages.....	24,225,059	2,544,170
Royalties and rent of mines.....	2,895,449	771,933
Taxes.....	789,460	67,306
Supplies and miscellaneous expenses.....	12,295,200	2,112,894
Cost of natural gas purchased and resold.....	5,376,867	208
Value of products.....	55,763,835	8,003,277

Table 2 gives further details for incorporated enterprises distinguished from those which are unincorporated. Out of a total of 1,876 operators, 563, or 30 per cent, were corporations. These corporations reported 87.4 per cent of the total value of products and employed 89.5 per cent of all wage earners.

Size of enterprises.—In Table 3 the producing enterprises of the state are classified according to the number of wage earners employed per enterprise or operating unit. For all enterprises combined the average number of persons employed per enterprise was 42, while for those engaged in the production of bituminous coal the corresponding average was 89. In this industry four-fifths of all the wage earners were employed in 99 enterprises employing over 100 wage earners each.

INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	PRODUCING ENTERPRISES: 1909			
	Enterprises.		Wage earners.	
	Number.	Per cent distribution.	Number.	Per cent distribution.
All industries.....	1,943	100.0	57,185	100.0
No wage earners.....	97	5.0		
Contract work and part-time employees.....	571	29.4		
1 to 5.....	652	33.6	1,404	2.6
6 to 20.....	302	15.5	3,175	5.6
21 to 50.....	118	6.1	3,956	6.9
51 to 100.....	85	4.4	6,121	10.7
101 to 500.....	94	4.8	18,699	32.7
501 to 1,000.....	19	1.0	12,851	22.5
Over 1,000.....	5	0.3	10,919	19.1
Petroleum and natural gas.....	1,195	100.0	5,897	100.0
No wage earners.....	90	7.5		
Contract work and part-time employees.....	567	47.4		
1 to 5.....	441	36.9	704	13.0
6 to 20.....	75	6.3	713	12.1
21 to 50.....	9	0.8	280	4.7
51 to 100.....	6	0.5	409	8.0
101 to 500.....	4	0.3	1,179	20.0
Over 500.....	3	0.3	2,492	42.3
Bituminous coal.....	501	100.0	44,405	100.0
No wage earners.....	4	0.8		
Contract work.....	2	0.4		
1 to 5.....	130	25.9	455	1.0
6 to 20.....	137	27.3	1,401	3.2
21 to 50.....	61	12.2	2,192	4.9
51 to 100.....	68	13.6	4,842	10.9
101 to 500.....	79	15.8	15,156	34.1
501 to 1,000.....	16	3.2	10,699	24.1
Over 1,000.....	4	0.8	9,660	21.8

Persons employed in mining.—Of the 62,874 persons employed in producing mines in 1909, 57,185 were wage earners, 2,625 were salaried employees, and 3,064 were proprietors and firm members. Of the proprietors and firm members, 571 were performing manual labor in or about the mine. Of the total number of wage earners employed, 44,405, or 77.7 per cent, were engaged in the production of coal.

Prevailing hours of labor.—In Table 4 all producing mines and quarries, except those employing no wage earners and those operated exclusively by contract work and part-time employees, have been classified according to the prevailing hours of labor per day in each enterprise or operating unit. Petroleum and natural gas wells are not included in this table because the lack of regularity in the number of hours worked per day in a large number of enterprises rendered such

classification impracticable. The table shows the percentage of the total number of enterprises falling in each group, and also a per cent distribution in which each enterprise has been given a weight according to the total number of wage earners employed December 15, 1909, or the nearest representative day. It should be borne in mind that this latter distribution does not show the exact proportion of the total number of wage earners working the specified number of hours per day, since, in some cases, a part of the employees worked a greater or less number of hours than those generally prevailing in the enterprise. In all industries combined 85.8 per cent and in the bituminous coal mining industry 98.6 per cent of the enterprises weighted according to the number of wage earners were operated on an eight-hour-per-day basis.

Table 4

INDUSTRY AND HOURS PER DAY.	PRODUCING ENTERPRISES: 1909		
	Enterprises.		Per cent distribution of enterprises weighted according to number of wage earners.
	Number.	Per cent distribution.	
All industries	1 736	100.0	100.0
8 hours and under.....	492	66.8	85.8
9 hours.....	37	5.0	1.5
10 hours.....	204	27.7	12.0
11 hours.....	1	0.1	0.1
12 hours.....	2	0.3	0.6
Bituminous coal	495	100.0	100.0
8 hours and under.....	470	94.9	98.6
9 hours.....	16	3.2	1.2
10 hours.....	9	1.8	0.2

¹ Exclusive of petroleum and natural gas and of 1 sandstone quarry, for which number of hours was not reported.

Duplication between manufactures and mining.—In the grindstone, limestone, sandstone, and gypsum industries some of the operators subjected the products obtained to certain manufacturing processes on the premises before marketing. These enterprises have been included in the statistics both for manufactures and for mining. As a result of this fact the combined value of products for the manufacturing and mining industries in Ohio involves a duplication of \$1,372,367.

Engines and power.—As shown by Table 5, the aggregate horsepower employed in producing enter-

prises was 294,763, of which 292,006 was developed by engines owned by the enterprises using them, and 2,757 by electric motors operated by purchased current.

Table 5

CHARACTER OF POWER.	PRODUCING ENTERPRISES: 1909				
	Total.	Petroleum and natural gas.	Bituminous coal.	Limestone.	All other.
Primary power:					
Aggregate horsepower.....	294,763	167,027	97,422	17,186	13,128
Owned.....	292,006	167,027	95,704	16,897	12,378
Steam engines—					
Number.....	4,775	3,307	1,003	215	250
Horsepower.....	193,814	70,090	95,545	16,171	12,008
Gas or gasoline engines—					
Number.....	4,021	3,962	26	21	12
Horsepower.....	98,192	96,937	159	726	370
Electric motors operated by purchased current—					
Number.....	123		91	10	22
Horsepower.....	2,757		1,718	289	750
Electric motors run by current generated by enterprise using:					
Number.....	1,287	1	1,211	1	74
Horsepower.....	37,298	20	35,501	20	1,757

Comparison of mining industries: 1902–1909.—In order to make comparisons between 1909 and 1902 it is necessary to omit from the 1902 figures, as given in the mines and quarries report for that year, statistics for the production of cement and for enterprises operated by governmental institutions; to omit from the 1909 figures, as they appear in other tables in this chapter, the value of the by-products of bituminous coal mines; and to add to the 1909 statistics, figures for the production of lime, which were omitted from the census of mines and quarries in 1909. Such items as are comparable for the two years are presented in Table 6.

Table 6

	PRODUCING ENTERPRISES.		
	1909	1902	Per cent of increase. ¹
Wages and salaries.....	\$30,226,878	\$25,479,977	18.6
Supplies and materials.....	\$8,850,679	\$9,836,370	-10.0
Royalties and rent of mines.....	\$3,668,862	\$4,190,544	-12.4
Contract work.....	\$2,745,089	\$2,692,557	2.0
Value of products.....	\$59,931,837	\$56,340,184	6.4
Primary horsepower.....	298,635	204,341	46.1

¹ A minus sign (-) denotes decrease.

² Exclusive of the wages of part-time employees for the petroleum and natural gas industry which are included under "Contract work," in Table 7.

DETAILED STATISTICS FOR MINING INDUSTRIES: 1909.

Table 7	Aggregate.	PRODUCING MINES, QUARRIES, AND WELLS.									Nonproducing mines, quarries, and wells. ¹
		Total.	Petroleum and natural gas.	Bituminous coal.	Limestone.	Sandstone.	Grindstones.	Iron.	Clay.	All other. ¹	
Number of operators.....	1,885	1,876	1,188	441	144	52	8	4	36	3	9
Number of mines, quarries, and wells.....	36,048	36,031	35,067	640	184	65	19	4	49	3	17
Capital ²	\$161,447,679	\$161,324,529	\$92,923,090	\$61,139,575	\$4,416,000	\$1,775,987	\$205,318	\$53,401	\$251,900	\$559,198	\$123,150
Expenses of operation and development.....	\$53,921,854	\$53,852,530	\$21,233,439	\$27,153,497	\$2,711,926	\$2,025,680	\$214,058	\$22,701	\$123,483	\$367,746	\$69,324
Services—											
Salaried officers of corporations, superintendents, and managers.....	\$1,750,002	\$1,749,762	\$541,476	\$911,606	\$152,273	\$91,977	\$15,572	\$1,320	\$10,860	\$24,678	\$240
Clerks and other salaried employees.....	\$1,025,222	\$1,025,222	\$451,240	\$455,430	\$46,665	\$45,118	\$5,373		\$1,600	\$19,796	
Wage earners.....	\$26,771,442	\$26,769,229	\$3,145,607	\$20,922,039	\$1,397,390	\$984,903	\$107,744	\$11,510	\$82,510	\$117,526	\$2,213
Miscellaneous—											
Supplies.....	\$7,380,294	\$7,360,290	\$4,009,599	\$2,292,815	\$537,917	\$402,481	\$27,988	\$3,225	\$9,031	\$77,224	\$20,014
Cost of natural gas purchased and resold.....	\$5,376,075	\$5,376,075	\$5,376,075								
Fuel and rent of power.....	\$892,714	\$892,671	\$137,790	\$388,466	\$191,262	\$111,816	\$10,136		\$2,373	\$50,828	\$43
Royalties and rent of mines.....	\$3,676,765	\$3,667,392	\$2,074,350	\$892,398	\$60,178	\$5,797	\$3,148	\$176	\$5,035	\$26,300	\$9,383
Taxes.....	\$856,871	\$856,766	\$555,842	\$234,021	\$24,276	\$6,764	\$1,809	\$389	\$1,257	\$2,708	\$105
Contract work.....	\$3,005,917	\$2,970,544	\$2,879,315	\$52,854	\$4,454	\$1,339	\$25,597	\$5,254	\$1,731		\$35,373
Rent of offices and other sundry expenses.....	\$3,186,552	\$3,184,599	\$1,432,445	\$1,003,868	\$297,511	\$375,455	\$16,691	\$827	\$9,086	\$48,686	\$1,953
Value of products.....	\$63,767,112	\$63,767,112	\$29,620,959	\$27,353,663	\$3,363,149	\$2,398,306	\$278,831	\$24,419	\$164,102	\$563,683	
Persons engaged in industry.....	62,902	62,874	9,312	46,046	4,110	2,441	314	39	284	328	28
Proprietors and officials.....	4,341	4,333	2,863	933	285	108	12	3	57	12	8
Number performing manual labor.....	3,009	3,004	2,408	421	146	36	3	2	48		5
Salaried officers of corporations.....	571	571	281	203	54	13	1	1	18		
Superintendents and managers.....	449	448	165	200	47	28	3		2	3	1
Clerks and other salaried employees.....	823	821	290	372	92	44	6	1	7	9	2
Wage earners, Dec. 15, 1909, or nearest representative day.....	1,350	1,350	552	648	79	50	6		4	17	
Above ground.....	57,205	57,185	5,897	44,405	3,746	2,283	296	36	223	299	20
Below ground.....	16,794	16,779	5,897	4,083	3,746	2,283	296	19	156	299	15
Men 16 years of age and over.....	40,411	40,406		40,322				17	67		5
Engineers, firemen, mechanics, etc.....	56,988	56,908	5,895	44,211	3,739	2,269	296	36	223	299	20
Above ground.....	5,918	5,914	3,263	1,946	356	309	28	1	11		4
Below ground.....	5,662	5,658	3,263	1,690	356	309	28	1	11		4
Miners, miners' helpers, quarrymen, and stonecutters.....	37,531	37,526		33,155	2,480	1,527	225	26	110	3	5
Above ground.....	4,287	4,287		2,480	1,527	225	9	9	43	3	
Below ground.....	33,244	33,239		33,155				17	67		5
All other employees.....	13,539	13,528	2,632	9,110	903	433	43	9	102	296	11
Above ground.....	6,812	6,801	2,632	2,383	903	433	43	9	102	296	11
Below ground.....	6,727	6,727		6,727							
Boys under 16 years of age ⁴	217	217	2	194	7	14					
Number of wage earners employed on the 15th day of each month:											
January.....	48,085	48,085	4,827	40,463	1,040	1,251	247	26	105	126	
February.....	47,900	47,900	4,589	40,405	1,096	1,297	243	27	102	141	
March.....	48,330	48,330	4,731	39,375	1,784	1,880	288	33	108	131	
April.....	47,429	47,427	4,927	36,910	2,555	2,402	293	34	170	126	2
May.....	47,960	47,958	5,110	36,684	2,996	2,498	323	34	191	122	2
June.....	48,861	48,860	5,207	37,235	3,238	2,523	320	31	194	112	1
July.....	49,768	49,767	5,378	37,680	3,520	2,515	315	31	196	132	1
August.....	51,699	51,695	5,663	39,251	3,567	2,509	310	31	191	143	4
September.....	52,974	52,970	5,730	40,418	3,754	2,392	301	35	205	135	4
October.....	53,294	53,290	5,859	40,784	3,740	2,208	331	33	208	127	4
November.....	56,413	56,405	6,303	43,770	3,321	2,352	315	31	182	131	3
December.....	54,142	54,122	5,865	43,126	2,562	1,942	294	31	173	129	20
Land controlled, acres.....	2,142,730	2,135,777	1,651,076	432,204	34,036	7,789	1,195	4,390	5,057	30	6,953
Owned.....	355,300	354,335	28,658	283,439	28,893	7,401	487	4,310	1,647		465
Held under lease.....	1,787,430	1,780,942	1,622,418	148,765	5,143	388	708	80	3,410	30	6,488
Mineral and oil land.....	2,091,920	2,084,967	1,651,076	406,836	12,852	6,916	1,054	4,390	2,813	30	6,953
Owned.....	310,333	309,918	28,658	260,423	8,750	6,528	346	4,310	903		465
Held under lease.....	1,781,587	1,775,049	1,622,418	145,913	4,102	388	708	80	1,410	30	6,488
Timber land.....	14,253	14,253		5,767	6,823	20			1,643		
Other land.....	36,557	36,557		20,101	14,361	853	141		1,101		
Primary horsepower.....	294,813	294,703	167,027	97,422	17,186	9,616	1,163		1,037	1,312	50

¹ Includes operators as follows: Gypsum, 2; oilstones, 1.
² Includes operators as follows: Bituminous coal, 2; petroleum and natural gas, 7.
³ Exclusive of capital which could not be distributed by states because it was reported in one lump sum by operators having mining investments in two or more states.
⁴ In the bituminous coal industry 184 boys were employed below ground.

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