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DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

SAM. L. ROGERS, DIRECTOR

RESIGNED APRIL 13, 1921

W. M. STEUART, DIRECTOR

APPOINTED APRIL 14, 1921

FOURTEENTH CENSUS OF THE UNITED STATES

STATE COMPENDIUM  
MASSACHUSETTS

STATISTICS OF POPULATION, OCCUPATIONS, AGRICULTURE,  
MANUFACTURES, AND MINES AND QUARRIES FOR  
THE STATE, COUNTIES, AND CITIES



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# DEPARTMENT OF COMMERCE.

HERBERT HOOVER, SECRETARY OF COMMERCE.

## BUREAU OF THE CENSUS.

### *Chief functions.*

The taking of the decennial census covering population, agriculture, manufactures, mines and quarries, and forest products.

Decennial report on wealth, public debt, and taxation, including principal financial statistics on Federal, state, county, city, and township governments.

Annual financial statistics of state and municipal governments—Sources of revenue, objects of payments, debt and tax levies.

Decennial statistics relating to inmates of institutions, including paupers, insane, prisoners, and juvenile delinquents.

A census of agriculture in each middecennial year, a biennial census of manufactures, a quinquennial census of electrical public utilities, statistics of marriage and divorce.

Annual statistics of births, deaths, causes of death, etc., in the registration area of the United States.

Quarterly statistics of leaf tobacco stocks and of production, stocks, and consumption of fats and oils.

Monthly or semimonthly statistics of cotton ginning; cotton stocks and consumption; the production, stocks, and consumption of hides and leather; the production of shoes; and statistics of active textile machinery and of movements in an increasing number of other industries.

The compilation and publication, in the "Survey of Current Business," of monthly commercial and industrial statistics.

## BUREAU OF FOREIGN AND DOMESTIC COMMERCE.

### *Chief functions.*

The compilation of timely information concerning world market conditions and openings for American products in foreign countries secured through commercial attachés and trade commissioners of the Department of Commerce and the foreign service of the Department of State. The distribution of such information to American business through weekly "Commerce reports," special bulletins, confidential circulars, the news and trade press, correspondence, and personal contact.

The maintenance of commodity, technical, and geographical divisions to afford special service to American export industries.

The compilation and distribution of names of possible buyers and agents for American products in all parts of the world and the publication of weekly lists of specific sales opportunities abroad.

The maintenance of district and cooperative offices in many cities in the United States to expedite delivery of market information to business men and to keep the department advised as to the urgent requirements of American trades and industries.

The publication of official statistics on imports and exports.

The study of the processes of domestic trade and commerce, with a view to their improvement and the dissemination of information obtained for the benefit of the public, as well as of those directly concerned.

## BUREAU OF STANDARDS.

### *Chief functions.*

Custody of standards of measurement, quality, performance, or practice adopted or recognized by the Government. Development and construction of such standards when necessary. Testing and calibration of apparatus and comparison of standards used by scientific or other institutions with those in the custody of the bureau.

Determination of physical constants and properties of materials.

The testing of materials and the establishment of standards and processes in cooperation with commercial firms or organizations.

Researches covering structural, engineering, and miscellaneous materials, radio, radium, mechanical appliances, sugar technology, leather, paper, rubber, and textiles, clay products, glass, and refractories, metals and metallurgy, and similar groups of subjects.

The collection and dissemination of information showing approved methods in building, planning, and construction, including building materials and codes and such other matters as may encourage, improve, and cheapen construction and housing.

Studies on simplified commercial practices and the establishment of such practices through cooperative business organizations.

The Bureau publishes six series of scientific and technical publications, reporting the results of its researches and giving technical data fundamental to industry.

The Director of the Bureau has supervision of the preparation of technical specifications through the Federal Specifications Board.

Circulars listing the publications of the various bureaus will be mailed on application to the bureau.

## BUREAU OF FISHERIES.

### *Chief functions.*

The propagation of useful food fishes, including lobsters, oysters, and other shellfish, and their distribution to suitable waters.

Investigations of fish culture, fish diseases, and for the conservation of fishery resources and the development of commercial fisheries.

The study of the methods of the fisheries and fishery industries and the utilization of fishery products.

The collection of statistics of fisheries.

The administration of the Alaska salmon fisheries and the fur-seal herd on the Pribilof Islands.

The administration of the law for the protection of sponges off the coast of Florida.

## BUREAU OF LIGHTHOUSES.

### *Chief functions.*

The establishment and maintenance of lighthouses, lightships, buoys, and other aids to navigation on the sea and the lake coasts and on the rivers of the United States, including Alaska, Hawaiian Islands, and Porto Rico.

The publication of Light Lists, Buoy Lists, and Notices to Mariners, including information regarding all aids to navigation maintained by the Lighthouse Service.

## COAST AND GEODETIC SURVEY.

### *Chief functions.*

The survey of the coasts of the United States and the publication of charts needed for the navigation of the adjacent waters, including Alaska, the Philippine Islands, Hawaii, Porto Rico, the Virgin Islands, and the Canal Zone.

A comprehensive geodetic system, extending into the interior, connects and coordinates the surveys of the coasts, and is designed to furnish accurately determined points and elevations in all parts of the country. These are available as a basis for Federal, state, and municipal surveys, and engineering projects of every kind. The magnetic declination has been determined at a large number of stations throughout the country and the results are available for the use of surveyors and engineers.

The technical operations include base measure, triangulation, traverse, precise leveling, the determination of latitude and azimuth, the determination of difference of longitude by telegraph or radio, magnetic observations and researches, the preparation of magnetic maps, the determination of the force of gravity, topography, hydrography, deep-sea soundings, water temperatures, tidal and current observations.

The results are published in the form of charts on various scales, annual reports, coast pilots, tide tables (published annually in advance), current tables, digests of geodetic publications, and special publications.

## BUREAU OF NAVIGATION.

### *Chief functions.*

General superintendence of commercial marine and merchant seamen.

Supervision of registering, enrolling, licensing, numbering, etc., of vessels under the United States flag and the annual publication of a list of such vessels.

The enforcement of the navigation and steamboat inspection laws and the laws governing radio communication, as well as duties connected with fees, fines, tonnage taxes, refunds, etc., originating under such laws.

## STEAMBOAT INSPECTION SERVICE.

### *Chief functions.*

The inspection of vessels, the licensing of the officers of vessels, and the administration of laws relating to such vessels and their officers.

The certification of able seamen who form the crews of merchant vessels.

The inspection of vessels, including the types of boilers; the testing of all materials subject to tensile strain in marine boilers; the inspection of hulls and of life-saving equipment.

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## FOURTEENTH CENSUS: 1920.

## SUMMARY FOR THE UNITED STATES, BY GEOGRAPHIC DIVISIONS AND STATES,

POPULATION, JAN. 1, 1920.															
DIVISION AND STATE.		POPULATION, BY SEX.			NATIVE WHITE POPULATION.		FOREIGN-BORN WHITE POPULATION.		NEGRO POPULATION.		POPULATION 7 TO 20 YEARS OF AGE.		POPULATION 10 YEARS OF AGE AND OVER.		
		Total. <sup>1</sup>	Male.	Female.	Native parentage.	Foreign or mixed parentage.	Number.	Per cent of total.	Number.	Per cent of total.	Total.	Attending school.	Total.	Number.	Per cent.
1	United States..	105,710,620	53,900,431	51,810,189	58,421,957	22,686,204	13,712,754	13.0	10,463,131	9.9	28,564,716	19,451,851	82,739,315	4,931,905	6.0
2	GEOGRAPHIC DIVS.:														
3	New England.....	7,400,909	3,672,591	3,728,318	2,803,149	2,642,276	1,870,654	25.3	79,051	1.1	1,768,290	1,223,623	5,945,989	289,700	4.9
4	Middle Atlantic..	22,261,144	11,206,445	11,054,699	9,631,012	7,098,253	4,912,575	22.1	600,183	2.7	5,527,757	3,746,560	17,666,354	865,382	4.9
5	E. North Central..	21,475,543	11,035,041	10,440,502	11,790,370	5,925,213	3,223,279	15.0	514,554	2.4	5,350,637	3,728,706	17,130,788	495,470	2.9
6	W. North Central..	12,544,249	6,459,067	6,085,182	7,475,548	3,377,878	1,371,961	10.9	278,521	2.2	3,393,143	2,420,929	9,889,740	193,221	2.0
7	South Atlantic...	13,990,272	7,035,343	6,954,929	8,779,416	553,604	315,920	2.3	4,325,120	30.9	4,323,620	2,818,406	10,513,447	1,212,942	11.5
8	E. South Central..	8,893,307	4,471,690	4,421,617	6,092,782	202,826	71,939	0.8	2,523,532	28.4	2,818,595	1,858,659	6,677,229	846,459	12.7
9	W. South Central..	10,242,224	5,265,829	4,976,395	6,959,785	696,609	459,333	4.5	2,063,579	20.1	3,259,000	2,097,596	7,730,536	773,637	10.0
10	Mountain.....	3,336,101	1,789,299	1,546,802	2,002,508	757,166	453,225	13.6	30,801	0.9	896,406	656,638	2,504,463	132,059	5.2
	Pacific.....	5,566,871	2,964,626	2,602,245	2,887,387	1,432,379	1,033,868	18.6	47,790	0.9	1,227,268	900,734	4,611,771	123,435	2.7
11	NEW ENGLAND:														
12	Maine.....	768,014	388,752	379,262	495,780	162,566	107,849	14.0	1,310	0.2	188,822	134,299	621,233	20,240	3.3
13	New Hampshire...	443,083	222,112	220,971	225,512	125,586	91,233	20.6	621	0.1	104,581	73,063	361,930	15,788	4.4
14	Vermont.....	352,428	178,854	173,574	228,325	78,966	44,526	12.6	572	0.2	87,302	62,544	284,472	8,488	3.0
15	Massachusetts...	3,852,356	1,890,014	1,962,342	1,230,773	1,495,217	1,077,534	28.0	45,466	1.2	907,212	633,124	3,106,769	146,607	4.7
16	Rhode Island.....	604,397	297,524	306,873	1,73,553	246,928	173,499	28.7	10,036	1.7	149,774	95,499	483,788	31,312	6.5
	Connecticut.....	1,380,631	695,335	685,296	449,206	533,013	376,513	27.3	21,046	1.5	330,599	225,094	1,087,797	67,265	6.2
17	MIDDLE ATLANTIC:														
18	New York.....	10,385,227	5,187,350	5,197,877	3,668,266	3,717,649	2,786,112	26.8	198,483	1.9	2,461,306	1,656,905	8,402,786	425,022	5.1
19	New Jersey.....	3,155,900	1,590,075	1,565,825	1,212,675	1,085,799	738,613	23.4	117,132	3.7	786,040	525,979	2,494,246	127,661	5.1
	Pennsylvania.....	8,720,017	4,429,020	4,290,997	4,750,071	2,294,805	1,387,850	15.9	284,568	3.3	2,280,411	1,563,676	6,769,322	312,699	4.6
20	E. NORTH CENTRAL:														
21	Ohio.....	5,759,394	2,955,980	2,803,414	3,669,122	1,224,074	678,697	11.8	186,187	3.2	1,386,799	989,417	4,624,456	131,006	2.8
22	Indiana.....	2,930,390	1,489,074	1,441,316	2,829,344	368,659	150,868	5.1	80,810	2.8	745,281	515,237	2,366,214	52,034	2.2
23	Illinois.....	6,485,280	3,304,833	3,180,447	3,066,563	2,025,819	1,206,951	18.6	182,274	2.8	1,619,847	1,108,216	5,184,943	173,987	3.4
24	Michigan.....	3,668,412	1,928,436	1,739,976	1,670,447	1,204,545	728,635	19.8	60,082	1.6	893,744	626,165	2,895,606	88,046	3.0
	Wisconsin.....	2,632,067	1,356,718	1,275,349	1,054,694	1,102,116	460,128	17.5	5,201	0.2	704,966	489,671	2,039,567	60,397	2.4
25	W. NORTH CENTRAL:														
26	Minnesota.....	2,387,125	1,245,537	1,141,588	827,627	1,055,145	498,164	20.4	8,809	0.4	643,287	451,096	1,877,132	34,487	1.8
27	Iowa.....	2,404,021	1,229,302	1,174,629	1,828,535	629,981	225,647	9.4	19,005	0.8	627,248	454,078	1,913,155	20,680	1.1
28	Missouri.....	3,404,055	1,723,319	1,680,736	2,536,936	502,082	188,026	5.5	178,241	5.2	901,694	624,396	2,737,771	83,403	3.0
29	North Dakota.....	649,872	341,673	306,199	207,066	300,485	131,503	20.3	467	0.1	198,020	146,289	470,210	9,937	2.1
30	South Dakota.....	638,547	337,120	299,427	308,598	228,158	82,391	12.9	832	0.1	181,271	131,943	482,195	8,109	1.7
31	Nebraska.....	1,296,372	672,805	623,567	757,064	372,503	149,652	11.5	13,242	1.0	358,143	256,961	1,012,552	13,784	1.4
	Kansas.....	1,769,257	906,221	863,036	1,308,804	289,524	110,578	6.2	57,925	3.3	483,480	356,167	1,396,725	22,821	1.6
32	SOUTH ATLANTIC:														
33	Delaware.....	223,003	113,755	109,248	139,876	32,929	19,810	8.9	30,335	13.6	54,739	37,759	178,980	10,508	5.9
34	Maryland.....	1,449,661	729,455	720,206	893,088	209,472	102,177	7.0	244,479	10.9	381,106	240,050	1,158,953	64,434	5.6
35	Dist. Columbia...	437,571	203,543	234,028	239,488	58,824	28,548	6.5	109,966	25.1	89,931	58,005	377,295	10,509	2.8
36	Virginia.....	2,309,187	1,168,492	1,140,695	1,534,494	52,630	30,785	1.3	690,017	20.9	709,980	460,037	1,748,568	195,159	11.2
37	West Virginia...	1,463,701	763,100	700,601	1,232,857	82,472	61,906	4.2	83,345	5.9	437,703	297,044	1,083,395	69,413	6.4
38	North Carolina...	2,559,123	1,279,062	1,280,061	1,765,203	11,477	7,099	0.3	763,407	29.8	839,574	576,239	1,844,673	241,003	13.1
39	South Carolina...	1,683,734	838,203	845,531	799,413	12,719	6,401	0.4	864,719	51.4	576,564	393,077	1,219,316	220,667	18.1
40	Georgia.....	2,895,832	1,444,823	1,451,009	1,642,937	30,231	16,186	0.6	1,206,365	41.7	953,304	670,386	2,150,230	328,838	15.3
	Florida.....	968,470	495,320	473,150	532,295	62,850	43,008	4.4	329,487	34.0	280,719	176,803	751,787	71,811	9.6
41	E. SOUTH CENTRAL:														
42	Kentucky.....	2,416,630	1,227,494	1,189,136	2,039,134	110,646	30,780	1.3	235,988	9.8	717,667	480,526	1,837,434	155,014	8.4
43	Tennessee.....	2,337,835	1,173,967	1,163,868	1,832,757	37,758	15,478	0.7	451,758	19.3	724,688	488,543	1,770,762	182,629	10.3
44	Alabama.....	2,348,174	1,173,105	1,175,069	1,394,129	35,241	17,662	0.8	900,652	38.4	774,048	499,888	1,730,421	278,082	16.1
	Mississippi.....	1,790,618	897,124	893,494	820,762	19,181	8,019	0.4	935,184	52.2	602,192	389,702	1,338,612	229,734	17.2
45	W. SOUTH CENTRAL:														
46	Arkansas.....	1,752,204	895,228	856,976	1,226,692	39,090	13,975	0.8	472,220	27.0	569,870	375,115	1,302,905	121,837	9.4
47	Louisiana.....	1,798,509	903,355	895,154	941,724	110,016	44,871	2.5	700,257	38.9	574,202	327,546	1,366,066	299,092	21.9
48	Oklahoma.....	2,028,283	1,058,044	970,239	1,670,107	102,119	39,968	2.0	149,408	7.4	647,939	444,247	1,513,951	156,894	9.8
	Texas.....	4,663,228	2,409,222	2,254,006	3,112,262	445,884	360,519	7.7	741,694	15.9	1,466,989	950,688	3,556,614	295,844	8.3
49	MOUNTAIN:														
50	Montana.....	548,889	299,941	248,938	275,803	164,837	93,620	17.1	1,658	0.3	135,886	102,621	421,443	9,544	2.3
51	Idaho.....	431,866	233,919	197,947	284,252	92,458	33,993	9.0	920	0.2	122,278	95,067	326,051	4,924	1.5
52	Wyoming.....	194,402	110,359	84,043	122,884	42,007	25,235	13.0	1,375	0.7	47,474	34,887	150,993	3,149	2.1
53	Colorado.....	939,629	492,731	446,898	609,941	204,108	116,854	12.4	11,318	1.2	239,926	175,745	747,485	24,208	3.2
54	New Mexico.....	360,350	190,456	169,894	273,317	32,279	20,077	8.1	5,732	1.6	109,738	75,119	267,595	41,637	15.6
55	Arizona.....	334,162	183,602	150,560	151,145	62,205	78,099	23.4	8,005	2.4	89,494	54,887	255,461	89,131	15.3
56	Utah.....	449,396	232,051	217,345	245,781	139,665	56,455</								

<sup>1</sup> The number of whites and Negroes is less than total population, because of the inclusion in the total of other nonwhites (Indians, Chinese, Japanese, and "all other").  
<sup>2</sup> Continental United States only. The total population of the United States, including outlying possessions, is 117,823,168, as follows: Continental United States, 105,710,620; Alaska, 55,036; Hawaii, 255,912; Porto Rico, 1,299,809; American Samoa, 8,058; Guam, 13,275; Panama Canal Zone, 22,858; Philippine Islands, 10,314,310 (Dec. 31, 1918); Virgin Islands, 26,051 (Nov. 1, 1917); military and naval, etc., services abroad, 117,238.



## FOR POPULATION, AGRICULTURE, MANUFACTURES, AND MINES AND QUARRIES.

[Table continued on following page.]

POPULATION, JAN. 1, 1920.										AGRICULTURE.						
POPULATION 21 YEARS OF AGE AND OVER.										LAND IN FARMS, 1920						
All classes.			Native white.	Foreign-born white.			Negro.		Farm population, 1920	Number of farms, 1920	Per cent operated by tenants.	Total (acres).	Average per farm.	Improved (acres).	Per cent improved.	
Total.	Illiterate.			Total.	Naturalized.	Per cent illiterate.	Total.	Per cent illiterate.								
	Number.	Per cent.														
60,886,520	4,333,111	7.1	42,614,741	12,493,720	6,208,697	13.7	5,522,475	27.4	31,614,269	6,448,343	38.1	955,883,715	148.2	503,073,007	52.6	1
4,591,477	280,826	6.1	2,829,337	1,705,291	755,527	14.8	52,315	8.5	625,877	156,564	7.4	16,990,642	108.5	6,114,601	36.0	2
13,451,656	845,582	6.3	8,549,966	4,477,752	2,024,619	16.7	409,441	6.0	1,892,789	425,147	20.7	40,572,901	95.4	26,562,107	65.5	3
13,025,595	480,238	3.7	9,076,916	2,978,675	1,576,067	11.4	356,341	8.7	4,913,633	1,084,744	28.1	117,735,179	108.5	87,894,835	74.7	4
7,278,548	180,616	2.5	5,777,875	1,261,794	874,132	6.5	187,865	12.5	5,171,596	1,096,951	34.2	256,973,229	234.3	171,394,439	66.7	5
7,212,523	1,006,764	14.0	4,805,560	287,215	131,423	13.5	2,111,952	31.5	6,416,698	1,158,976	40.8	97,775,243	84.4	48,599,888	49.0	6
4,523,944	706,098	15.5	3,171,417	67,242	38,395	9.3	1,284,069	34.1	5,182,937	1,051,600	49.7	78,897,463	75.0	44,380,132	56.3	7
5,243,779	611,868	11.7	3,796,823	357,220	114,258	29.1	1,062,244	30.5	5,228,199	966,088	52.9	173,449,127	174.1	64,189,606	37.0	8
1,888,921	113,384	6.0	1,421,859	394,008	210,804	12.7	23,881	5.8	1,168,367	244,109	15.4	117,837,226	480.7	30,105,868	25.7	9
3,070,077	116,240	3.2	2,584,988	939,623	482,872	8.8	34,367	5.4	1,014,173	234,164	20.1	60,152,705	239.8	23,921,533	42.6	10
475,191	18,572	3.9	379,356	94,329	40,479	12.0	876	6.8	197,601	48,227	4.2	5,425,968	112.5	1,977,329	36.4	11
281,026	15,257	5.4	198,481	82,049	36,621	16.4	388	7.7	76,021	20,523	6.7	2,608,806	128.9	702,002	27.0	12
217,042	8,152	3.8	178,442	38,232	19,825	12.5	342	8.2	126,263	20,075	11.6	4,235,811	145.7	1,691,595	39.9	13
2,411,507	142,750	5.9	1,389,441	988,913	441,416	13.5	30,412	8.2	118,554	32,001	7.1	2,494,477	77.9	908,834	36.4	14
368,637	30,319	8.2	204,016	156,866	78,175	17.5	6,554	12.5	15,136	4,093	15.5	331,000	81.2	132,855	40.1	15
838,074	65,776	7.8	478,701	344,902	139,011	18.1	13,743	7.5	93,302	22,655	8.5	1,898,980	83.8	701,086	36.9	16
6,514,681	415,359	6.4	3,832,852	2,528,497	1,153,613	15.2	142,544	3.4	800,747	193,195	19.2	20,632,363	106.8	13,158,781	63.8	17
1,897,884	124,358	6.6	1,145,506	676,222	305,516	16.3	75,671	7.5	143,708	29,702	23.0	2,282,585	76.8	1,555,007	68.2	18
5,039,091	303,865	6.0	3,571,608	1,274,033	566,290	20.1	191,226	7.3	948,334	202,250	21.9	17,657,513	87.3	11,847,719	67.1	19
3,558,481	126,645	3.6	2,807,874	922,523	293,535	13.4	126,940	9.7	1,139,329	256,695	29.5	23,515,888	91.6	18,542,353	78.9	20
1,779,820	50,147	2.8	1,585,076	140,373	63,637	12.4	53,935	11.7	907,265	205,126	32.0	21,063,332	102.7	16,080,212	79.2	21
3,944,197	169,127	4.3	2,904,677	1,117,928	639,446	11.7	128,450	7.9	1,098,262	237,181	42.7	31,974,775	134.8	27,294,533	85.4	22
2,215,436	85,613	3.9	1,604,967	689,160	330,958	10.5	43,407	4.9	848,710	196,447	17.7	19,032,961	96.9	12,925,521	67.9	23
1,527,661	48,706	3.2	1,084,382	434,591	249,161	8.8	3,609	4.8	920,037	189,295	14.4	22,148,223	117.0	12,452,216	56.2	24
1,380,834	32,869	2.4	906,810	462,582	319,390	5.6	6,666	3.5	897,181	178,478	24.7	30,221,758	160.3	21,481,710	71.1	25
1,428,882	19,444	1.4	1,201,080	214,470	153,271	5.0	12,568	9.9	984,799	218,439	41.7	33,474,896	156.8	28,606,951	85.5	26
2,035,614	77,348	3.8	1,743,313	713,551	104,448	10.0	121,328	14.3	1,211,846	263,004	28.8	34,774,679	132.2	24,832,666	71.4	27
322,018	9,373	2.9	198,345	121,047	91,187	5.9	936	4.8	394,500	77,690	25.6	36,214,751	480.1	24,563,178	67.8	28
344,846	7,040	2.2	257,505	78,027	55,164	4.9	520	6.7	362,221	74,637	34.9	34,636,491	494.1	18,199,260	52.5	29
738,310	12,972	1.8	585,753	140,899	89,783	6.6	9,437	5.7	584,172	124,417	42.0	42,225,475	330.4	23,109,624	54.7	30
1,024,144	20,970	2.0	884,979	101,209	60,889	10.2	37,010	11.2	737,377	165,286	40.4	45,425,179	274.8	30,600,760	67.4	31
136,521	10,088	7.4	100,114	18,245	8,027	18.2	18,113	24.6	51,212	10,140	39.3	944,511	93.1	653,052	69.1	32
802,391	58,877	6.8	626,888	98,624	49,764	14.3	141,091	22.2	729,225	47,908	28.9	4,757,999	99.3	3,136,728	65.9	33
305,255	10,190	3.3	204,804	26,370	14,712	6.4	73,448	16.7	894	204	41.7	5,668	27.8	4,258	75.1	34
1,207,074	162,376	13.5	827,272	27,851	14,057	7.5	351,281	20.3	1,064,417	186,242	25.6	18,561,112	99.7	9,480,492	61.0	35
752,344	61,468	8.2	645,041	55,465	14,141	25.4	51,145	18.0	477,924	87,289	16.2	9,669,790	109.6	5,620,808	57.7	36
1,210,727	204,492	16.9	856,567	6,488	3,235	7.0	342,756	32.4	1,501,227	299,763	43.5	20,021,736	74.2	8,198,409	40.9	37
779,991	179,482	23.0	396,855	5,941	3,062	6.5	376,930	38.7	1,074,693	192,693	64.5	12,428,675	64.5	6,184,159	49.8	38
1,421,606	261,294	18.4	831,173	14,855	8,316	5.6	575,330	35.8	1,685,213	310,732	66.6	25,441,061	81.9	13,055,269	51.3	39
536,614	58,497	10.9	316,746	38,370	18,109	6.6	181,008	24.8	281,893	54,005	25.3	6,046,691	112.0	2,297,271	38.0	40
1,289,496	136,235	10.6	1,116,037	29,488	18,493	7.5	143,881	26.4	1,304,862	270,026	33.4	21,612,772	79.9	13,975,746	64.7	41
1,214,947	153,163	12.6	955,125	14,319	7,708	8.7	245,395	26.9	1,271,708	252,774	41.1	19,510,856	77.2	11,186,802	57.3	42
1,143,395	228,565	20.0	685,926	16,105	8,503	11.3	441,130	38.8	1,385,885	256,099	57.9	19,676,856	76.4	9,893,407	50.5	43
876,106	182,135	20.8	414,329	7,330	3,631	13.4	453,663	35.9	1,270,482	272,101	60.1	18,196,979	66.9	9,325,677	51.2	44
867,292	99,413	11.5	611,737	13,166	7,569	8.3	242,234	26.5	1,147,049	232,604	51.3	17,456,750	75.0	9,210,556	52.8	45
924,184	229,980	24.9	522,789	41,228	15,196	22.6	359,251	43.8	786,050	135,463	57.1	10,019,822	74.0	5,626,226	56.2	46
1,021,588	48,076	4.7	884,745	36,108	19,372	13.4	76,331	16.4	1,017,327	191,988	51.0	31,951,934	166.4	18,125,321	56.7	47
2,430,715	233,894	9.6	1,777,562	266,718	72,121	33.3	384,428	23.4	2,277,773	436,083	53.3	114,020,021	261.5	31,227,503	27.4	48
320,562	9,071	2.8	226,355	85,709	56,627	6.0	1,262	6.7	225,667	57,677	11.3	35,070,656	608.1	11,007,278	31.4	49
234,076	4,510	1.9	193,818	36,170	23,894	6.6	699	5.9	200,902	42,106	15.9	8,375,873	198.9	4,511,680	53.9	50
116,739	2,940	2.5	89,626	23,057	12,008	9.2	1,065	6.1	67,306	15,748	12.5	11,809,351	749.9	2,102,005	17.8	51
564,529	22,080	3.9	448,781	105,017	62,318	12.8	8,106	7.4	266,073	59,934	23.0	24,462,014	408.1	7,744,757	31.7	52
185,186	34,952	18.9	149,224	21,933	5,881	28.6	4,809	4.4	161,446	29,844	12.2	24,409,633	817.9	1,717,224	7.0	53
187,929	30,636	16.3	108,056	55,973	10,708	28.7	6,559	4.8	90,560	9,975	18.1	5,802,120	581.7	712,803	12.3	54
228,682	5,679	2.5	171,375	33,192	6,254	6.5	1,104	5.0	140,249	25,662	10.9	5,050,410	196.8	1,715,380	34.0	55
52,218	3,516	6.7	34,025	13,895	6											



## FOURTEENTH CENSUS: 1920.

## SUMMARY FOR THE UNITED STATES, BY GEOGRAPHIC DIVISIONS AND STATES,

Table continued from preceding page.]

DIVISION AND STATE.		AGRICULTURE—Continued.								
		VALUE OF FARM PROPERTY: 1920				VALUE OF FARM PRODUCTS: 1919				
		Total.	Land and buildings.	Implements and machinery.	Live stock.	Total (gross value.) <sup>1</sup>	Live-stock products. <sup>2</sup>	Domestic animals sold, etc. <sup>3</sup>	Crops.	Miscellaneous products. <sup>4</sup>
		Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
1	United States.....	77,924,100,338	66,316,002,602	3,594,772,928	8,013,324,808	21,425,623,614	2,667,072,273	3,511,050,000	14,765,364,894	492,136,447
2	GEOGRAPHIC DIVISIONS:									
3	New England.....	1,173,019,594	917,408,584	92,387,525	163,163,485	505,397,039	132,411,030	55,500,000	275,175,536	42,310,473
4	Middle Atlantic.....	3,949,684,183	3,002,137,764	359,152,336	588,394,093	1,561,158,784	412,960,765	170,200,000	914,499,027	63,498,082
5	East North Central.....	17,245,362,595	14,937,641,671	786,076,805	1,521,644,117	4,410,240,680	721,387,462	784,200,000	2,818,367,792	89,235,420
6	West North Central.....	27,991,434,545	24,469,495,169	1,162,938,264	2,359,001,112	5,581,297,432	550,742,614	1,312,600,000	3,676,902,149	41,052,609
7	South Atlantic.....	6,132,917,700	5,201,773,472	283,980,857	647,163,431	2,629,345,460	204,301,963	221,550,000	2,083,808,429	119,685,074
8	East South Central.....	4,419,460,237	3,663,663,363	176,064,886	579,707,988	1,795,544,716	159,643,789	256,500,000	1,309,179,939	73,220,938
9	West South Central.....	7,622,066,027	6,201,188,072	311,098,790	1,019,779,165	2,739,481,559	181,346,648	352,200,000	2,108,622,649	37,312,262
10	Mountain.....	4,083,137,930	3,163,187,783	190,715,673	729,234,483	921,882,633	121,132,969	230,700,000	562,954,399	7,085,205
11	Pacific.....	5,307,011,460	4,669,416,734	232,357,792	405,236,934	1,281,275,305	183,145,033	127,600,000	948,854,024	21,670,248
12	NEW ENGLAND:									
13	Maine.....	270,526,733	204,108,971	20,637,660	39,780,102	154,070,196	26,075,219	15,700,000	100,152,824	12,148,653
14	New Hampshire.....	118,656,115	89,995,870	9,499,322	19,160,923	51,771,331	14,681,368	7,700,000	23,508,665	5,880,298
15	Vermont.....	222,736,620	159,117,159	21,234,130	42,385,331	99,473,142	31,573,340	13,300,000	47,999,600	6,000,202
16	Massachusetts.....	300,471,743	247,587,831	19,359,755	33,524,157	109,223,194	33,850,892	10,900,000	53,700,925	10,771,877
17	Rhode Island.....	33,636,766	26,387,625	2,408,561	4,840,279	13,682,138	5,367,881	1,300,000	5,340,876	1,073,879
18	Connecticut.....	226,991,617	190,270,827	9,248,097	23,472,693	77,171,038	20,862,330	6,600,000	44,472,044	5,230,004
19	MIDDLE ATLANTIC:									
20	New York.....	1,908,483,201	1,425,061,740	169,866,766	313,554,695	743,823,392	225,465,739	71,000,000	417,646,864	30,310,789
21	New Jersey.....	311,847,948	250,323,985	25,459,205	36,064,757	135,000,544	31,482,945	8,700,000	87,484,186	7,333,413
22	Pennsylvania.....	1,729,353,034	1,326,752,023	163,826,365	238,774,641	682,384,848	156,012,081	90,500,000	409,968,877	25,853,890
23	EAST NORTH CENTRAL:									
24	Ohio.....	3,095,666,336	2,661,435,949	146,575,269	287,655,118	941,729,697	155,587,619	159,400,000	607,037,562	19,704,216
25	Indiana.....	3,042,311,247	2,653,643,973	127,403,086	261,264,188	782,101,167	99,360,023	171,100,000	497,229,719	14,421,425
26	Illinois.....	6,666,767,235	5,997,993,566	222,619,605	446,154,064	1,293,900,947	142,351,262	274,800,000	804,737,893	17,017,552
27	Michigan.....	1,703,334,778	1,436,686,210	122,389,936	204,258,632	606,886,581	111,076,235	75,600,000	404,014,810	16,193,536
28	Wisconsin.....	2,677,282,997	2,187,881,977	167,088,909	322,312,115	780,616,288	213,022,023	103,300,000	445,347,868	18,946,997
29	WEST NORTH CENTRAL:									
30	Minnesota.....	3,787,420,118	3,301,168,325	181,087,968	305,163,825	734,485,441	113,236,965	104,000,000	506,020,233	11,228,243
31	Iowa.....	5,524,870,956	7,601,772,290	309,172,398	613,926,268	1,447,938,473	130,250,447	420,300,000	890,391,299	6,996,727
32	Missouri.....	3,691,068,085	3,062,967,700	138,261,340	369,839,045	952,663,253	105,601,436	270,800,000	559,047,854	17,213,963
33	North Dakota.....	1,769,742,995	1,438,521,495	114,180,865	187,034,635	398,055,859	30,979,932	34,900,000	301,782,895	365,022
34	South Dakota.....	2,823,870,212	2,472,893,681	112,408,268	238,568,263	411,111,307	35,739,209	33,700,000	311,008,809	965,289
35	Nebraska.....	2,601,655,992	3,712,107,700	153,104,448	336,443,784	784,077,206	54,612,075	208,700,000	519,729,771	1,635,360
36	Kansas.....	3,302,806,187	2,830,068,918	154,716,977	318,025,292	882,366,863	80,322,550	210,200,000	588,923,248	2,920,065
37	SOUTH ATLANTIC:									
38	Delaware.....	80,137,614	64,755,631	6,781,318	8,600,665	32,182,526	5,778,747	2,400,000	23,058,906	944,873
39	Maryland.....	463,633,120	396,596,850	28,970,020	48,071,250	158,178,770	25,522,172	16,800,000	109,858,608	5,997,999
40	District of Columbia.....	5,927,987	5,877,369	104,252	246,366	1,019,770	119,263	50,000	307,614	542,893
41	Virginia.....	1,196,555,772	1,024,436,025	50,151,466	121,969,281	425,199,212	40,311,494	61,100,000	292,824,260	24,663,458
42	West Virginia.....	496,439,617	410,783,460	18,395,058	367,261,153	109,060,516	26,382,970	34,600,000	96,537,459	11,696,087
43	North Carolina.....	1,250,166,905	1,076,392,960	54,621,363	119,152,672	414,094,854	35,890,056	41,600,000	503,229,313	33,395,458
44	South Carolina.....	953,064,742	813,434,200	48,062,387	91,518,155	489,079,710	20,354,060	18,000,000	437,121,837	14,508,813
45	Georgia.....	1,356,685,196	1,138,298,627	63,343,220	155,043,349	638,430,033	30,401,310	39,000,000	540,613,020	22,416,111
46	Florida.....	330,301,717	281,449,404	13,561,773	35,300,540	101,204,043	7,621,885	8,000,000	80,256,806	5,325,355
47	EAST SOUTH CENTRAL:									
48	Kentucky.....	1,511,901,077	1,305,153,836	48,354,857	158,387,284	512,459,424	50,923,217	96,800,000	347,338,888	17,392,319
49	Tennessee.....	1,251,904,585	1,024,978,894	53,462,556	173,522,135	492,407,214	50,960,694	101,000,000	318,286,307	22,191,213
50	Alabama.....	690,843,720	543,667,765	34,860,217	112,824,743	383,178,279	30,426,993	29,100,000	304,349,638	19,302,648
51	Mississippi.....	964,751,855	789,896,778	39,881,256	134,973,821	407,499,790	27,327,835	29,600,000	336,207,156	14,364,758
52	WEST SOUTH CENTRAL:									
53	Arkansas.....	924,395,483	753,110,666	43,432,237	127,852,580	424,486,802	30,083,950	39,400,000	340,813,256	14,189,596
54	Louisiana.....	589,826,679	474,088,793	32,715,010	88,072,876	287,628,052	13,613,465	12,100,000	208,182,548	5,732,039
55	Oklahoma.....	1,060,423,544	1,363,865,294	80,630,547	216,927,703	707,895,000	49,887,518	103,800,000	550,064,742	4,122,740
56	Texas.....	4,447,420,321	3,700,173,819	154,320,996	592,926,006	1,369,471,705	87,761,715	196,900,000	1,071,542,103	18,267,887
57	MOUNTAIN:									
58	Montana.....	985,961,308	776,767,529	55,004,212	154,189,567	442,597,141	24,809,029	46,000,000	69,975,185	1,812,027
59	Idaho.....	716,137,910	581,511,964	38,417,253	97,208,093	181,709,556	22,225,355	30,500,000	128,495,911	2,480,090
60	Wyoming.....	334,410,590	234,748,125	11,777,949	87,854,516	68,153,818	14,004,109	23,700,000	30,370,630	179,079
61	Colorado.....	1,076,794,749	866,013,060	49,804,509	160,970,580	280,295,333	26,921,292	70,600,000	181,035,239	1,708,802
62	New Mexico.....	325,185,999	221,814,212	9,745,369	95,626,415	75,172,758	8,447,526	25,700,000	42,481,230	405,298
63	Arizona.....	239,592,989	172,325,321	8,820,667	52,447,001	67,764,314	6,294,886	10,900,000	58,067,067	95,578
64	Utah.....	311,274,728	243,751,758	13,514,787	54,008,183	87,764,314	13,735,823	15,600,000	58,067,067	361,424
65	Nevada.....	99,779,666	66,265,214	3,650,927	29,893,525	26,418,019	4,694,649	7,700,000	13,980,303	43,067
66	PACIFIC:									
67	Washington.....	1,057,429,848	920,392,341	54,721,377	89,316,130	301,271,159	44,066,349	23,900,000	227,212,008	6,092,802
68	Oregon.....	818,559,751	675,213,284	41,567,125	101,779,342	209,459,266	35,146,671	36,200,000	131,884,639	6,227,956
69	California.....	3,431,021,891	3,073,811,109	136,069,290	221,141,462	770,544,880	103,932,013	67,500,000	589,787,377	9,355,490

<sup>1</sup> The gross value of farm products, obtained by adding the value of crops, live-stock products, etc., contains a considerable amount of duplication, on account of crops fed to live stock. It is roughly analogous to the value of products in manufactures, with its duplication on account of the use of the products of one establishment as materials in another.

<sup>2</sup> These include dairy products, wool and mohair, eggs and chickens, and honey and wax.

<sup>3</sup> Estimated value of domestic animals sold by farmers and animals slaughtered on the farms, whether for sale or for home consumption.

<sup>4</sup> These include forest products of farms valued (for the United States) at \$394,321,828, nursery products valued at \$20,434,389, and greenhouse products valued at \$77,380,230.



## FOR POPULATION, AGRICULTURE, MANUFACTURES, AND MINES AND QUARRIES.

MANUFACTURES. *													MINES AND QUARRIES. *												
Number of establishments.	AVERAGE NUMBER OF WAGE EARNERS.					VALUE OF PRODUCTS.					Number of establishments.	Number of mines and quarries.	Number of wells.	AVERAGE NUMBER OF WAGE EARNERS. <sup>b</sup>					VALUE OF PRODUCTS.						
	Total.	Rank.	Per cent distribution.	Male.	Female.	Wages.	Cost of materials.	Amount.						Total.	Per cent distribution.	Wages.	Amount.								
								Expressed in thousands.	Rank.	Per cent distribution.							Expressed in thousands.	Rank.	Per cent distribution.						
290,105	9,096,372	....	100.0	7,267,030	1,829,342	10,533,400	37,376,380	62,418,079	....	100.0	21,280	13,844	257,673	981,560	100.0	1,295,936	3,158,464	100.0	1						
25,523	1,351,389	3	14.9	955,597	395,792	1,436,435	3,951,908	7,188,071	3	11.5	302	334	.....	7,213	0.7	8,084	18,724	0.6	2						
88,360	2,872,053	1	31.6	2,179,258	693,395	3,464,931	11,424,086	19,854,773	1	31.8	6,004	3,870	91,611	334,175	34.0	458,108	853,891	27.0	3						
61,332	2,396,618	2	26.3	2,030,024	366,594	2,992,031	10,621,687	17,737,480	2	28.4	3,772	2,324	54,413	190,011	19.4	237,038	480,483	15.2	4						
29,166	499,635	5	5.5	408,309	91,266	546,172	3,778,125	5,187,065	4	8.3	1,726	1,270	12,691	62,263	6.3	84,268	280,111	8.9	5						
29,976	817,212	4	9.0	658,092	159,120	778,027	2,596,265	4,455,152	5	7.1	2,284	1,976	27,363	129,707	13.2	149,276	352,074	11.1	6						
14,655	329,226	7	3.6	286,147	43,079	298,711	977,824	1,642,391	8	2.6	1,405	1,475	5,228	90,612	9.2	98,768	181,645	5.8	7						
13,909	285,244	8	3.1	261,967	23,277	293,022	1,547,994	2,277,861	7	3.6	2,821	495	56,087	60,936	6.3	88,445	490,727	15.5	8						
7,612	109,216	9	1.2	101,858	7,358	141,902	610,239	922,676	9	1.5	1,508	1,598	1,183	31,519	8.3	131,192	321,825	10.2	9						
19,567	435,179	6	4.8	385,718	49,461	581,269	1,868,242	3,157,610	6	5.1	868	502	9,197	25,134	2.6	40,207	178,984	5.7	10						
2,995	88,651	24	1.0	68,530	20,121	94,225	254,569	456,822	28	0.7	50	51	.....	979	0.1	1,052	1,824	0.1	11						
1,490	83,074	25	0.9	57,697	25,407	79,326	239,528	407,205	29	0.7	30	33	.....	682	0.1	825	1,568	( <sup>a</sup> )	12						
1,700	33,491	37	0.4	28,613	4,878	34,084	95,178	168,108	38	0.3	93	109	.....	2,936	0.3	3,041	8,555	0.3	12						
11,006	713,836	4	7.8	490,006	223,830	766,632	2,200,718	4,011,182	5	6.4	74	79	.....	1,704	0.2	2,069	4,170	0.1	14						
2,460	139,065	15	1.5	89,734	49,331	137,495	415,980	747,323	19	1.2	14	15	.....	369	( <sup>a</sup> )	400	952	( <sup>a</sup> )	15						
4,872	292,672	8	3.2	221,047	71,625	324,682	685,937	1,392,432	12	2.2	41	47	.....	543	0.1	647	1,640	0.1	16						
49,330	1,228,130	1	13.5	876,680	351,450	1,458,207	4,943,214	8,867,005	1	14.2	700	147	14,186	6,202	0.6	7,497	25,181	0.8	17						
11,057	508,686	6	5.6	388,419	120,267	600,658	2,270,473	3,672,065	6	5.9	97	102	.....	4,576	0.5	5,393	9,309	0.3	18						
27,973	1,135,837	2	12.5	914,159	221,678	1,406,066	4,210,409	7,315,703	2	11.7	5,807	3,621	77,325	323,397	32.9	446,218	819,451	25.9	19						
16,125	730,733	3	8.0	625,668	105,065	944,652	2,911,948	5,100,309	4	8.2	2,283	1,064	35,440	49,298	5.0	58,110	134,519	4.3	20						
7,916	277,580	9	3.1	235,805	41,775	317,043	1,174,950	1,898,753	9	3.0	503	398	2,456	26,751	2.7	30,193	52,840	1.7	21						
18,593	653,114	5	7.2	527,205	125,909	801,087	3,488,271	5,425,245	3	8.7	772	590	16,498	79,123	8.1	94,179	178,973	5.7	22						
8,305	471,242	7	5.2	417,708	53,534	639,708	1,919,243	3,406,188	7	5.6	122	165	19	31,292	3.2	50,406	103,870	3.3	23						
10,393	263,949	10	2.9	223,638	40,311	290,441	1,127,275	1,846,984	10	3.0	92	107	.....	8,547	0.4	4,750	10,581	0.3	24						
6,225	115,623	19	1.3	96,704	18,919	127,107	883,090	1,218,130	13	2.0	135	196	.....	17,265	1.8	29,383	130,399	4.1	25						
5,683	83,074	27	0.9	68,080	12,471	90,117	820,241	1,455,473	20	1.2	198	226	.....	11,274	1.1	12,467	18,474	0.6	26						
8,592	195,037	12	2.1	147,635	47,402	196,515	1,056,457	1,594,208	11	2.5	468	494	.....	14,857	1.5	16,777	33,366	1.1	27						
894	4,472	48	( <sup>a</sup> )	4,136	336	5,401	44,490	57,374	47	0.1	79	79	.....	774	0.1	1,020	1,927	0.1	28						
1,414	6,382	46	0.1	5,719	603	7,905	42,986	62,171	46	0.1	23	28	.....	1	1,785	2,497	5,314	0.2	29						
2,884	36,521	35	0.4	31,275	5,246	46,067	480,774	506,042	24	1.0	9	9	.....	162	( <sup>a</sup> )	166	203	( <sup>a</sup> )	30						
3,474	61,049	31	0.7	54,820	6,229	73,030	750,088	913,667	16	1.5	814	238	12,600	16,136	1.6	21,949	90,338	2.9	31						
668	29,035	39	0.3	24,744	4,291	37,265	85,433	165,073	40	0.3	7	8	.....	116	( <sup>a</sup> )	136	244	( <sup>a</sup> )	32						
4,937	140,342	14	1.5	104,977	35,365	147,887	549,347	873,945	17	1.4	126	161	.....	5,628	0.6	6,152	9,909	0.3	33						
595	10,482	43	0.1	9,193	1,289	13,189	30,940	68,826	45	0.1	3	3	.....	12	( <sup>a</sup> )	8	16	( <sup>a</sup> )	34						
5,603	119,352	18	1.3	99,353	19,999	120,007	371,541	643,512	23	1.0	202	210	.....	14,547	1.5	16,108	29,303	0.9	35						
2,785	83,036	26	0.9	74,684	8,352	101,840	270,941	471,971	27	0.8	1,714	1,325	27,363	100,812	10.3	119,578	295,607	9.3	36						
5,999	157,659	13	1.7	116,391	41,268	126,680	528,906	943,808	15	1.5	102	106	.....	1,890	0.2	1,489	2,736	0.1	37						
2,004	79,450	28	0.9	60,800	18,650	62,556	227,986	381,453	32	0.5	20	20	.....	933	0.1	680	1,351	( <sup>a</sup> )	38						
4,803	123,441	17	1.4	99,282	24,159	101,180	440,490	693,237	21	1.1	74	82	.....	2,397	0.2	2,017	4,082	0.1	39						
2,582	74,415	29	0.8	68,668	5,747	67,433	92,680	213,327	35	0.3	36	55	.....	3,372	0.3	3,108	8,976	0.3	40						
3,957	69,340	30	0.8	58,584	10,756	67,034	235,715	395,660	31	0.6	938	864	5,214	43,563	4.4	49,551	98,487	3.1	41						
4,589	95,167	23	1.0	76,187	18,980	81,355	344,767	556,253	25	0.9	203	203	.....	14,470	1.5	12,987	23,292	0.7	42						
3,654	107,159	21	1.2	96,793	10,376	99,066	300,664	492,731	26	0.8	264	348	.....	32,579	3.3	36,230	69,866	1.9	43						
2,455	57,580	33	0.6	54,593	2,987	51,250	96,678	197,747	37	0.3	( <sup>a</sup> )	.....	.....	.....	.....	.....	.....	.....	44						
3,123	49,954	34	0.5	47,838	2,116	47,186	102,813	200,313	36	0.3	126	126	.....	3,630	0.4	4,573	8,404	0.3	45						
2,617	98,265	22	1.1	88,259	10,006	94,406	431,404	676,190	22	1.1	1,137	4	2,479	5,228	0.5	7,505	40,017	1.3	46						
2,445	29,503	38	0.3	27,646	1,857	35,026	312,606	401,363	30	0.6	1,934	284	44,735	33,914	3.5	48,809	281,928	8.9	47						
5,724	107,522	20	1.2	98,224	9,298	116,404	701,171	999,996	14	1.6	624	81	8,749	18,164	1.9	29,558	160,378	5.1	48						
1,200	17,160	41	0.2	16,608	552	24,743	122,152	166,664	39	0.3	259	269	.....	16,129	1.6	25,724	49,924	1.6	49						
922	13,917	42	0.2	13,445	472	18,547	93,949	80,511	44	0.1	82	83	.....	2,455	0.3	4,202	11,840	0.4	50						
576	6,634	45	0.1	6,545	89	11,189	42,250	81,445	43	0.1	106	87	1,084	9,699	1.0	14,576	41,929	1.3	51						
2,631	35,254	36	0.4	31,902	3,352	42,975	174,570	275,622	34	0.4	477	523	70	16,790	1.7	25,405	51,217	1.6	52						
387	5,730	47	0.1	5,616	120	6,659	7,727	17,856	49	( <sup>a</sup> )	85	103	1	7,100	0.7	10,494	18,872	0.6	53						
480	8,528	44	0.1	8,388	140	12,015	92,645	120,769	42	0.2	155	172	.....	15,268	1.6	26,193	88,478	2.8	54						
1,160	18,868	40	0.2	16,297	2,571	21,455	110,154	156,933	41	0.3	141	154	.....	9,847	1.0	17,197	41,511	1.3	55						
166	3,119	49	( <sup>a</sup>																						







# MASSACHUSETTS.

## NUMBER AND DISTRIBUTION OF INHABITANTS.

**Population of the state.**—According to the Fourteenth Census, taken as of January 1, 1920, the population of Massachusetts is 3,852,356, which represents an increase of 485,940, or 14.4 per cent, over the population in 1910. During the same period the population

of the United States increased 14.9 per cent. The following summary shows the population of Massachusetts from 1790, the first Federal census year, to 1920, inclusive, with the increase in each decade, in comparison with the per cent of increase for the United States:

POPULATION OF MASSACHUSETTS: 1790 TO 1920.

CENSUS YEAR.	Population.	INCREASE OVER PRECEDING CENSUS.		Per cent of increase for the United States.
		Number.	Per cent.	
1920.....	3,852,356	485,940	14.4	14.9
1910.....	3,366,416	561,070	20.0	21.0
1900.....	2,805,346	566,399	25.3	20.7
1890.....	2,238,947	455,862	25.6	25.5
1880.....	1,783,085	325,734	22.4	30.1
1870.....	1,457,351	226,285	18.4	22.6
1860.....	1,231,066	236,552	23.8	35.6
1850.....	994,514	256,815	34.8	35.9
1840.....	737,699	127,291	20.9	32.7
1830.....	610,408	87,121	16.6	33.5
1820.....	523,287	51,247	10.9	33.1
1810.....	472,040	49,195	11.6	36.4
1800.....	422,845	44,058	11.6	35.1
1790.....	378,787			

**Counties.**—Massachusetts has 14 counties, of which 3 (Barnstable, Dukes, and Nantucket) show decreases in population during the last decade. The same counties also showed decreases in the preceding decade, and 2 of them (Barnstable and Nantucket) in the decade from 1890 to 1900. (See Table 1.) There has been only one change in the territorial boundaries of the counties since 1910, Hyde Park town, in Norfolk County, having been annexed to Suffolk County and made a part of Boston city in 1912.

**Density of population.**—The total land area of the state is 8,039 square miles, and the average number of persons to the square mile in 1920 is 479.2 (see Table 1); in 1910 and 1900 the averages were 418.8 and 349, respectively.

**Minor civil divisions.**—The political units into which counties are divided are collectively termed "minor civil divisions." In Massachusetts the primary division of the county is the town or city, and in 1920 these number 316 and 38, respectively. (See

**HISTORICAL NOTE.**—Massachusetts takes its name from the Massachusetts Indians, a tribe which, at the time of the settlement of the colony, lived along the shores of Massachusetts Bay. The original significance of the word in the Indian tongue was probably "at the great hills," although other definitions have been suggested by different writers.

The region now constituting Massachusetts was included in the grants made in the patent of "Acadia" to the Sieur de Monts (French, 1603), the first charter of Virginia (English, 1606), and the charter of New England (1620). The English claim to this region was based on the discovery of the mainland of North America by the Cabots toward the close of the fifteenth century. The first permanent settlement was made by the Pilgrims, a band of about 100 Englishmen, who, landing at Plymouth in December, 1620, founded the Plymouth Colony. Between 1622 and 1628 several scattered settlements were made in and near Boston Harbor.

In 1628 the first permanent settlement in the colony of Massachusetts Bay was established, when a few settlers at Salem were found and joined by a party of English Puritans under the leadership of John Endicott, one of the proprietors of a land company which had obtained a grant extending from a line 3 miles north of the River Merrimac to a line 3 miles south of the River Charles, and from the Atlantic westward to the "South Sea." A charter for this territory was obtained from Charles I in the following year.

The charter of New England was surrendered to the Crown in 1635.

In 1684 the charter of Massachusetts Bay Colony was declared forfeited, and the government was later placed in the hands of a royal governor and council. A new charter was granted in 1691, by the terms of which Massachusetts Bay, the colony of New Plymouth, the province of Maine, and the territory called Acadia or Nova Scotia were united under the name of Massachusetts Bay. This charter went into effect in the following year.

An agreement between Massachusetts and New York regarding the eastern boundary of the latter colony was reached in 1773, but the line was not finally adjusted until 1787.

Massachusetts was one of the original thirteen states.

After the close of the Revolution (1783) Nova Scotia remained in the possession of England. In 1785 Massachusetts ceded to the United States all claims, based on its early charters, to territory west of New York. In 1820 Maine became a separate state. After these modifications the area of Massachusetts was substantially as at present, although minor changes in its boundaries have since been made.

According to censuses taken prior to the first Federal census, in 1790, the population of the colony of Massachusetts at different dates was as follows: 1784, 245,718; 1776, 291,147; 1784 (partly estimated), 346,653.



Table 2.) Villages are not incorporated as such in this state.

Cities.—Of the 38 cities in Massachusetts, 26 have a population in 1920 of 25,000 or more. Only 1 town (Brookline) has this amount of population. Boston, the capital of the state and the largest city, has a population of 748,060, while Worcester,

Springfield, New Bedford, Fall River, Lowell, and Cambridge, in the order named, have over 100,000 inhabitants each. (See Tables 3 and 4.)

The following summary shows the population of all cities in Massachusetts having 25,000 inhabitants or more in 1920, together with Brookline town, at each census for which figures are available:

POPULATION OF PRINCIPAL CITIES FROM EARLIEST CENSUS TO 1920.

[A minus sign (—) denotes decrease.]

CITY AND CENSUS YEAR.	Population.	INCREASE OVER PRECEDING CENSUS.		CITY AND CENSUS YEAR.	Population.	INCREASE OVER PRECEDING CENSUS.		CITY AND CENSUS YEAR.	Population.	INCREASE OVER PRECEDING CENSUS.	
		Number.	Per cent.			Number.	Per cent.			Number.	Per cent.
<b>Boston:</b>				<b>Everett:</b>				<b>Lynn:</b>			
1920.....	748,060	77,475	11.6	1920.....	40,120	6,636	19.8	1920.....	99,148	9,812	11.0
1910.....	670,585	109,693	19.6	1910.....	33,484	9,148	37.6	1910.....	89,336	20,823	30.4
1900.....	560,892	112,415	25.1	1900.....	24,336	13,263	119.9	1900.....	68,513	12,788	22.9
1890.....	448,477	85,638	23.6	1890.....	11,068	6,909	166.1	1890.....	55,727	17,453	45.6
1880.....	362,839	112,313	44.8	1880.....	4,159	1,939	87.3	1880.....	38,274	10,041	35.6
1870.....	250,526	72,686	40.9	1870.....	2,220	.....	.....	1870.....	28,233	9,150	47.9
1860.....	177,840	40,959	29.9					1860.....	19,083	4,826	33.9
1850.....	136,881	48,498	46.6	<b>Fall River:</b>				1850.....	14,257	4,890	52.2
1840.....	93,383	31,991	52.1	1920.....	120,485	1,190	1.0	1840.....	9,367	3,229	52.6
1830.....	61,392	18,094	41.8	1910.....	119,295	14,432	13.8	1830.....	6,138	1,623	35.9
1820.....	43,298	9,511	28.1	1900.....	104,863	30,465	40.9	1820.....	4,515	1,428	10.5
1810.....	33,787	8,850	35.5	1890.....	74,398	25,437	52.0	1810.....	4,087	1,250	44.1
1800.....	24,937	6,617	36.1	1880.....	48,961	22,195	82.9	1800.....	2,837	546	28.8
1790.....	18,320	.....	.....	1870.....	26,766	12,740	90.8	1790.....	2,291	.....	.....
				1860.....	14,026	2,502	21.7				
<b>Brockton:</b>				1850.....	11,524	4,785	71.0	<b>Malden:</b>			
1920.....	66,254	9,376	16.5	1840.....	6,738	2,580	62.0	1920.....	49,103	4,699	10.6
1910.....	56,878	16,815	42.0	1830.....	4,158	2,564	160.9	1910.....	44,404	10,740	31.9
1900.....	40,063	12,769	46.8	1820.....	1,594	298	23.0	1900.....	33,664	10,633	46.2
1890.....	27,294	13,686	100.6	1810.....	1,296	.....	.....	1890.....	23,031	11,014	91.7
1880.....	13,608	5,601	70.0					1880.....	12,017	4,650	63.1
1870.....	8,007	1,423	21.6	<b>Fitchburg:</b>				1870.....	7,367	1,502	25.6
1860.....	6,584	2,645	87.1	1920.....	41,029	3,203	8.5	1860.....	5,865	2,345	66.6
1850.....	3,939	1,823	50.6	1910.....	37,826	6,295	20.0	1850.....	3,520	1,006	40.0
1840.....	2,616	663	33.9	1900.....	31,551	9,494	43.1	1840.....	2,514	504	25.1
1830.....	1,953	.....	.....	1890.....	22,087	9,008	77.3	1830.....	2,010	279	16.1
				1880.....	12,429	1,169	10.4	1820.....	1,731	347	25.1
<b>Brookline town:</b>				1870.....	11,260	3,455	44.8	1810.....	1,384	325	30.7
1920.....	37,748	9,956	35.8	1860.....	7,805	2,685	52.4	1800.....	1,050	26	2.5
1910.....	27,792	7,857	39.4	1850.....	5,120	2,516	96.6	1790.....	1,033	.....	.....
1900.....	19,935	7,832	64.7	1840.....	2,604	435	20.1				
1890.....	12,103	4,046	50.2	1830.....	2,109	433	24.9	<b>Medford:</b>			
1880.....	8,057	1,407	21.2	1820.....	1,736	170	10.9	1920.....	39,038	15,888	68.6
1870.....	6,650	1,486	28.8	1810.....	1,566	176	12.7	1910.....	23,150	4,906	26.9
1860.....	5,164	2,048	105.2	1800.....	1,390	239	20.8	1900.....	18,244	7,165	64.7
1850.....	2,516	1,151	84.3	1790.....	1,151	.....	.....	1890.....	11,070	3,506	46.3
1840.....	1,365	322	30.9					1880.....	7,573	1,856	32.5
1830.....	1,043	143	15.9	<b>Haverhill:</b>				1870.....	5,717	875	18.1
1820.....	900	116	14.8	1920.....	53,884	9,769	22.1	1860.....	4,842	1,093	29.2
1810.....	784	179	29.6	1910.....	44,115	6,940	18.7	1850.....	3,740	1,271	51.3
1800.....	605	121	25.0	1900.....	37,175	9,763	35.6	1840.....	2,478	723	41.2
1790.....	484	.....	.....	1890.....	27,412	8,940	48.4	1830.....	1,755	281	19.1
				1880.....	18,472	5,380	41.1	1820.....	1,474	31	2.1
<b>Cambridge:</b>				1870.....	13,062	3,097	31.0	1810.....	1,443	329	29.5
1920.....	109,694	4,855	4.6	1860.....	9,995	4,118	70.1	1800.....	1,114	85	8.3
1910.....	104,839	12,953	14.1	1850.....	5,877	1,541	35.5	1790.....	1,029	.....	.....
1900.....	91,886	21,658	31.2	1840.....	4,386	440	11.3				
1890.....	70,028	17,359	33.0	1830.....	3,890	826	26.9	<b>New Bedford:</b>			
1880.....	52,669	13,035	32.9	1820.....	3,070	388	14.5	1920.....	121,217	24,565	25.4
1870.....	39,634	13,574	62.1	1810.....	2,682	—48	—1.8	1910.....	96,652	34,210	54.8
1860.....	26,060	10,845	71.3	1800.....	2,730	322	13.4	1900.....	62,442	21,709	53.3
1850.....	15,215	6,896	80.9	1790.....	2,408	.....	.....	1890.....	40,733	13,888	51.7
1840.....	8,409	2,337	38.5					1880.....	26,845	5,525	25.9
1830.....	6,072	2,777	84.3	<b>Holyoke:</b>				1870.....	21,320	—960	—4.4
1820.....	3,235	972	41.8	1920.....	60,203	2,473	4.3	1860.....	22,300	5,857	35.6
1810.....	2,323	—130	—5.3	1910.....	57,730	12,013	26.3	1850.....	16,443	4,356	36.0
1800.....	2,453	338	16.0	1900.....	45,712	10,075	28.3	1840.....	12,087	4,495	59.2
1790.....	2,115	.....	.....	1890.....	35,637	13,722	62.6	1830.....	7,592	3,645	92.3
				1880.....	21,915	11,182	104.2	1820.....	3,947	—1,704	—30.2
<b>Chelsea:</b>				1870.....	10,733	5,736	114.8	1810.....	5,651	1,290	29.6
1920.....	43,184	10,732	33.1	1860.....	4,997	1,752	54.0	1800.....	4,861	1,048	31.6
1910.....	32,452	—1,620	—4.8	1850.....	3,245	.....	.....	1790.....	3,313	.....	.....
1900.....	34,072	6,163	22.1								
1890.....	27,909	6,127	28.1	<b>Lawrence:</b>				<b>Newton:</b>			
1880.....	21,782	3,235	17.4	1920.....	94,270	8,378	9.8	1920.....	46,054	6,248	15.7
1870.....	18,547	5,152	38.5	1910.....	85,892	23,333	37.3	1910.....	39,806	6,219	18.5
1860.....	13,395	6,694	99.9	1900.....	62,560	17,905	40.1	1900.....	33,587	9,208	37.8
1850.....	6,701	4,311	180.4	1890.....	44,654	5,503	14.1	1890.....	24,379	7,384	43.4
1840.....	2,390	1,619	210.0	1880.....	39,151	10,230	35.4	1880.....	16,995	4,170	32.5
1830.....	771	129	20.1	1870.....	28,921	11,282	64.0	1870.....	12,825	4,443	53.0
1820.....	642	48	8.1	1860.....	17,639	9,357	113.0	1860.....	8,382	3,124	59.4
1810.....	594	—255	—30.0					1850.....	5,258	1,907	56.9
1800.....	849	377	79.9	<b>Lowell:</b>				1840.....	3,351	975	41.0
1790.....	472	.....	.....	1920.....	112,759	6,465	6.1	1830.....	2,376	526	28.4
				1910.....	106,294	11,325	11.9	1820.....	1,850	141	8.3
<b>Chicopee:</b>				1900.....	94,969	17,273	22.2	1810.....	1,709	218	14.6
1920.....	36,214	10,813	42.6	1890.....	77,696	18,221	30.6	1800.....	1,491	131	9.6
1910.....	25,401	6,234	32.5	1880.....	59,475	18,547	45.3	1790.....	1,360	.....	.....
1900.....	19,167	5,117	36.4	1870.....	40,928	4,101	11.1				
1890.....	14,050	2,764	24.5	1860.....	36,827	3,444	10.3	<b>Pittsfield:</b>			
1880.....	11,286	1,679	17.5	1850.....	33,383	12,587	60.5	1920.....	41,763	9,642	30.0
1870.....	9,607	2,346	32.3	1840.....	20,796	14,322	221.2	1910.....	32,121	10,355	47.6
1860.....	7,261	—1,020	—12.4	1830.....	6,474	.....	.....	1900.....	21,766	4,485	26.0
1850.....	8,291	.....	.....								



# NUMBER AND DISTRIBUTION.

9

## POPULATION OF PRINCIPAL CITIES FROM EARLIEST CENSUS TO 1920—Continued.

[A minus sign (—) denotes decrease.]

CITY AND CENSUS YEAR.	Popula- tion.	INCREASE OVER PRECEDING CENSUS.		CITY AND CENSUS YEAR.	Popula- tion.	INCREASE OVER PRECEDING CENSUS.		CITY AND CENSUS YEAR.	Popula- tion.	INCREASE OVER PRECEDING CENSUS.	
		Number.	Per cent.			Number.	Per cent.			Number.	Per cent.
<b>Pittsfield—Continued.</b>				<b>Salem—Continued.</b>				<b>Taunton—Continued.</b>			
1890.....	17,281	3,917	29.3	1880.....	27,563	3,446	14.3	1880.....	21,213	2,584	13.9
1880.....	13,364	2,252	20.3	1870.....	24,117	1,865	8.4	1870.....	18,629	3,253	21.2
1870.....	11,112	3,067	38.1	1860.....	22,252	1,988	9.8	1860.....	15,376	4,685	47.3
1860.....	8,045	2,173	37.0	1850.....	20,264	5,182	34.4	1850.....	10,441	2,798	36.6
1850.....	5,872	2,125	56.7	1840.....	15,082	1,187	8.5	1840.....	7,645	1,603	26.5
1840.....	3,747	188	5.3	1830.....	13,895	2,549	22.5	1830.....	6,042	1,522	33.7
1830.....	3,559	791	28.6	1820.....	11,346	-1,267	-10.0	1820.....	4,520	613	15.7
1820.....	2,768	103	3.9	1810.....	12,613	3,156	33.4	1810.....	3,907	47	1.2
1810.....	2,665	404	17.9	1800.....	9,467	1,536	19.4	1800.....	3,860	56	1.5
1800.....	2,261	269	13.5	1790.....	7,921			1790.....	3,804		
1790.....	1,992										
<b>Quincy:</b>				<b>Somerville:</b>				<b>Waltham:</b>			
1920.....	47,876	15,284	46.7	1920.....	93,091	15,855	20.5	1920.....	30,915	3,081	11.1
1910.....	32,642	8,743	36.6	1910.....	77,236	15,593	26.3	1910.....	27,834	4,553	18.5
1900.....	23,899	7,176	42.9	1900.....	61,043	21,491	35.5	1900.....	23,481	4,774	25.5
1890.....	16,723	6,153	55.2	1890.....	40,152	15,219	61.0	1890.....	18,707	6,995	59.7
1880.....	10,570	3,128	42.0	1880.....	24,933	10,248	60.8	1880.....	11,712	2,647	29.2
1870.....	7,442	664	9.8	1870.....	14,685	0,000	83.0	1870.....	9,065	2,688	41.7
1860.....	6,778	1,761	35.1	1860.....	8,025	4,485	126.7	1860.....	6,397	1,533	43.3
1850.....	5,017	1,531	43.0	1850.....	3,540			1850.....	4,484	1,060	78.3
1840.....	3,486	1,285	58.4					1840.....	2,504	647	34.8
1830.....	2,201	578	35.6	<b>Springfield:</b>				1830.....	1,857	180	10.7
1820.....	1,623	342	26.7	1920.....	129,614	40,688	45.8	1820.....	1,677	663	65.4
1810.....	1,281	200	18.5	1910.....	88,926	26,897	43.3	1810.....	1,014	111	12.3
1800.....	1,081			1900.....	62,059	17,880	40.5	1800.....	903	21	2.4
				1890.....	44,179	10,839	32.5	1790.....	882		
<b>Revere:</b>				1880.....	33,340	6,637	24.9				
1920.....	28,823	10,604	58.2	1870.....	26,703	11,504	75.7	<b>Worcester:</b>			
1910.....	18,219	7,824	75.3	1860.....	15,199	3,433	29.2	1920.....	179,754	33,768	23.1
1900.....	10,395	4,727	83.4	1850.....	11,766	781	7.1	1910.....	145,986	27,565	23.3
1890.....	5,668	3,405	150.5	1840.....	10,985	4,201	61.9	1900.....	113,421	38,766	39.9
1880.....	2,263	1,060	89.1	1830.....	6,794	2,870	73.3	1890.....	84,655	26,364	45.2
1870.....	1,197	276	30.0	1820.....	8,914	1,147	41.5	1880.....	58,201	17,188	41.8
1860.....	921	-14	-1.5	1810.....	2,767	455	19.7	1870.....	41,105	16,145	64.7
1850.....	935			1800.....	2,312	738	46.9	1860.....	24,980	7,911	46.4
				1790.....	1,574			1850.....	17,049	9,552	127.4
<b>Salem:</b>				<b>Taunton:</b>				1840.....	7,497	3,324	79.7
1920.....	42,529	-1,168	-2.7	1920.....	37,137	2,878	8.4	1830.....	4,173	1,211	40.9
1910.....	43,697	7,741	21.5	1910.....	34,259	3,223	10.4	1820.....	2,865	385	14.9
1900.....	35,956	5,155	16.7	1900.....	31,036	5,588	22.0	1810.....	2,677	106	6.9
1890.....	30,801	3,238	11.7	1890.....	25,448	4,235	20.0	1800.....	2,411	310	15.1
								1790.....	2,095		

Urban and rural population.—The Census Bureau defines urban population as that residing in cities and other incorporated places of 2,500 inhabitants or more. Since it is not the practice in Massachusetts, as in practically all the other states, to have municipal incorporations, such as villages, within the limits of the town, and since no town becomes a city until its population is greatly in excess of 2,500, it has been necessary to include as urban not only the population of cities but that of all towns having over 2,500 inhabitants. The result is that the "urban area" in Massachusetts contains some population which in other states would be classified as "rural," but on account of the density of population of the state as a whole, there is no likelihood that the proportion of urban population is materially overstated.

Urban population in Massachusetts being thus de-

fined, the rural element, therefore, consists of the population of towns having less than 2,500 inhabitants.

The following summary presents, for the last three censuses, the urban and rural population of the state. The classification for each census is based, of course, upon the population of the various places as shown by the returns of that census. As the result, the figures for each census covered by the table do not relate exactly to the same urban and rural territory, respectively, as those for the other two censuses, since, through the growth or decline of its population, some territory which was rural at a certain census may have become urban at the next census, or the reverse of this change may have occurred. The proportion of the population of Massachusetts living in places of 2,500 or more increased from 91.5 per cent in 1900 to 92.8 per cent in 1910 and to 94.8 per cent in 1920.

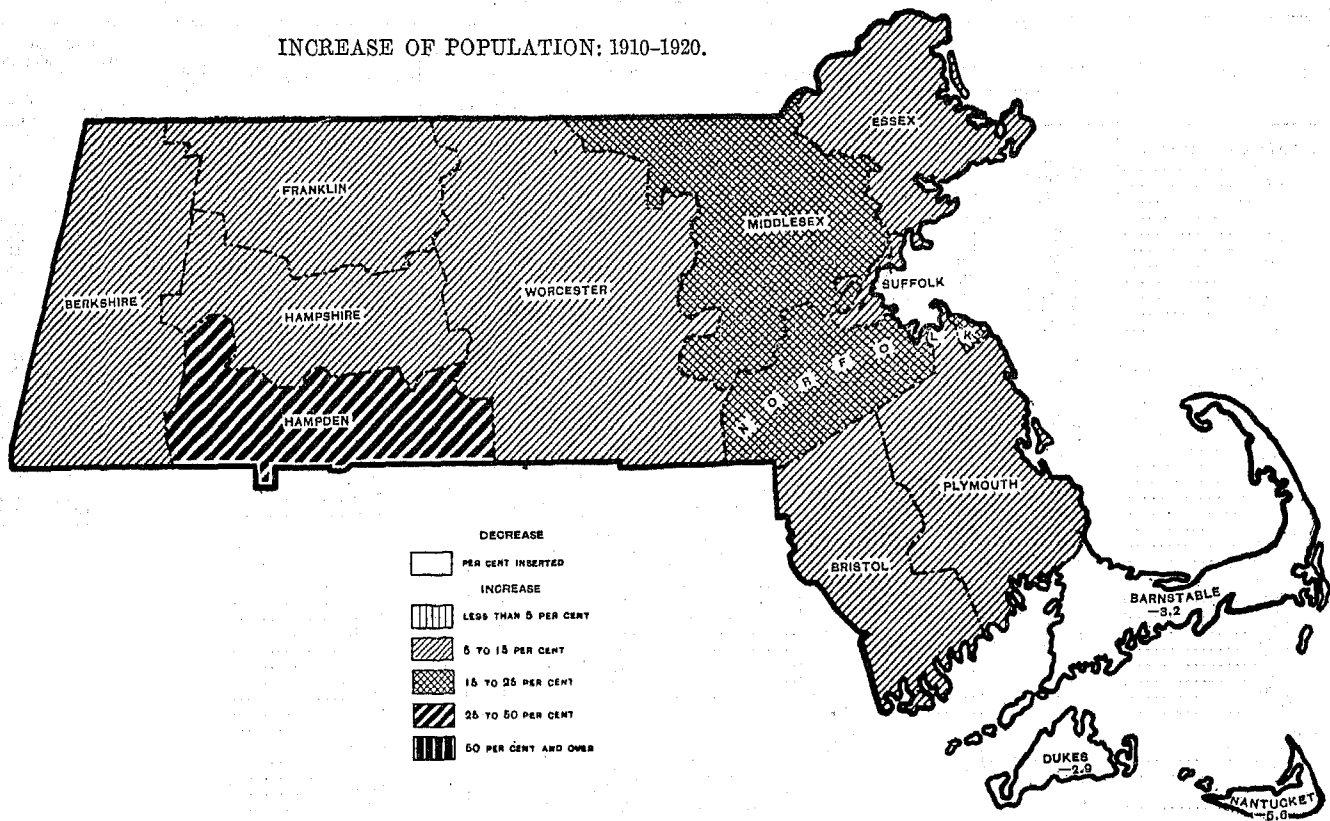
## URBAN AND RURAL POPULATION: 1920, 1910, AND 1900.

CLASS OF PLACES.	1920		1910		1900		PER CENT OF TOTAL POPULATION.		
	Number of places.	Population.	Number of places.	Population.	Number of places.	Population.	1920	1910	1900
Total population.....	354	3,852,356	354	3,366,416	353	2,805,346	100.0	100.0	100.0
<b>Urban territory.....</b>	<b>169</b>	<b>3,650,248</b>	<b>152</b>	<b>3,125,367</b>	<b>150</b>	<b>2,567,098</b>	<b>94.8</b>	<b>92.8</b>	<b>91.5</b>
Cities and towns of—									
500,000 inhabitants or more.....	1	748,060	1	670,585	1	560,892	19.4	19.9	20.0
100,000 to 500,000 inhabitants.....	6	778,523	4	476,414	2	223,284	20.1	14.2	8.0
50,000 to 100,000 inhabitants.....	6	466,850	7	552,650	7	504,071	12.1	16.4	18.0
25,000 to 50,000 inhabitants.....	14	561,533	13	455,833	10	348,917	14.6	13.5	12.4
10,000 to 25,000 inhabitants.....	39	594,111	30	460,898	27	413,698	15.4	13.4	14.7
5,000 to 10,000 inhabitants.....	47	321,312	49	342,831	46	310,720	8.3	10.2	11.1
2,500 to 5,000 inhabitants.....	56	184,859	48	178,156	57	205,516	4.8	5.2	7.3
<b>Rural territory (towns of less than 2,500 inhabitants)...</b>	<b>185</b>	<b>202,108</b>	<b>202</b>	<b>241,049</b>	<b>203</b>	<b>238,248</b>	<b>5.2</b>	<b>7.2</b>	<b>8.5</b>



# INCREASE AND DENSITY OF POPULATION OF MASSACHUSETTS, BY COUNTIES.

INCREASE OF POPULATION: 1910-1920.



DENSITY OF POPULATION: 1920.

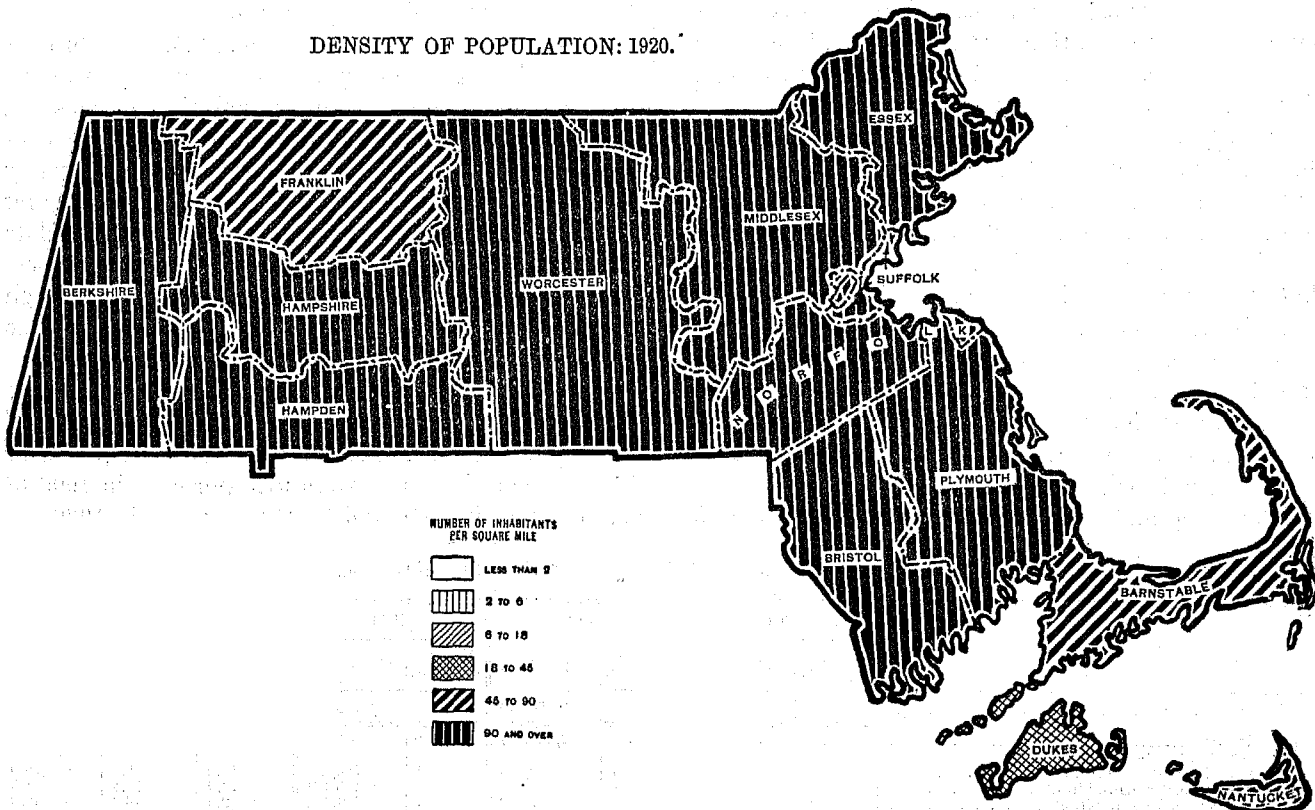




TABLE 1.—AREA AND POPULATION OF COUNTIES: 1850 TO 1920.

[A minus sign (—) denotes decrease.]

COUNTY.	Land area in square miles: 1920.	POPULATION.									Per cent of increase.		
		1920		1910	1900	1890	1880	1870	1860	1850	1910 to 1920.	1900 to 1910.	1890 to 1900.
		Total.	Per square mile.										
Massachusetts <sup>1</sup> .....	8,039	3,852,356	479.2	3,366,416	2,805,346	2,236,947	1,783,085	1,457,351	1,231,066	994,514	14.4	20.0	25.3
Barnstable.....	400	26,870	65.2	27,542	27,826	29,172	31,897	32,774	35,990	35,270	-3.2	-1.0	-4.6
Berkshire.....	966	118,033	117.0	105,259	95,067	81,108	69,032	64,827	55,120	49,591	7.4	10.0	18.0
Bristol.....	567	359,005	633.2	318,573	262,029	186,465	139,040	102,886	93,794	70,192	12.7	26.4	35.2
Dukes.....	107	4,372	40.9	4,504	4,561	4,369	4,300	3,787	4,403	4,540	-2.9	-1.2	4.4
Essex.....	497	482,150	970.1	436,477	357,030	290,995	244,535	200,843	165,611	131,300	10.5	22.3	19.0
Franklin.....	697	49,361	70.8	43,600	41,209	38,610	36,001	32,635	31,434	30,870	13.2	5.8	6.7
Hampden <sup>1</sup> .....	636	300,305	472.2	231,369	175,603	135,713	104,142	73,409	57,366	51,283	23.8	31.8	29.4
Hampshire <sup>1</sup> .....	585	69,599	119.0	63,327	58,820	51,859	47,232	44,883	37,823	35,732	9.9	7.7	13.4
Middlesex <sup>1</sup> .....	832	778,352	935.5	669,915	565,696	431,167	317,830	274,353	216,854	161,383	16.2	18.4	31.2
Nantucket.....	51	2,797	54.8	2,962	3,006	3,268	3,727	4,123	6,094	8,432	-5.6	-1.5	-8.0
Norfolk <sup>1</sup> .....	406	219,081	539.6	187,506	151,539	118,950	96,507	89,443	109,950	78,892	16.8	23.7	27.4
Plymouth.....	675	156,968	232.5	144,337	113,985	92,700	74,018	65,365	64,768	55,697	8.8	26.6	23.0
Suffolk <sup>1</sup> .....	55	835,522	15,191.3	731,388	611,417	484,780	387,927	270,802	192,700	144,517	14.2	19.6	26.1
Worcester.....	1,556	455,135	292.5	399,657	346,958	280,787	226,897	192,716	159,659	130,789	13.9	15.2	23.6

## CHANGES IN BOUNDARIES, ETC.

THE STATE.—Total for 1890 includes population (4) of Indian reservations, specially enumerated and not distributed by counties.

HAMPDEN.—Part of Hampshire annexed in 1909.

HAMPSHIRE.—Part annexed to Hampden in 1909.

MIDDLESEX.—Part of Suffolk annexed in 1872; part annexed to Suffolk in 1873 and part annexed to Norfolk in 1907. Boundary line between Cambridge city, Middlesex County, and Boston city, Suffolk County, changed in 1910.

NORFOLK.—Part of Suffolk annexed in 1872; parts annexed to Suffolk in 1872, 1874, and 1912; part of Middlesex annexed in 1907.

SUFFOLK.—Parts annexed to Middlesex and Norfolk in 1872; part of Middlesex annexed in 1873; parts of Norfolk annexed in 1872, 1873, 1874, and 1912. Boundary line between Cambridge city, Middlesex County, and Boston city, Suffolk County, changed in 1910.

TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900.

[For changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. II, Table 1, p. 883. For population of wards of cities, see Table 4.]

MINOR CIVIL DIVISION.	1920	1910	1900	MINOR CIVIL DIVISION.	1920	1910	1900
<b>Barnstable County.....</b>	<b>26,870</b>	<b>27,542</b>	<b>27,826</b>	<b>Berkshire County—Continued.</b>			
Barnstable town.....	4,836	4,670	4,364	Washington town.....	240	277	377
Bourne town.....	2,530	2,474	1,657	West Stockbridge town.....	1,058	1,271	1,153
Brewster town.....	683	681	829	Williamstown town.....	3,707	3,708	5,013
Chatham town.....	1,737	1,564	1,749	Windsor town.....	403	404	507
Dennis town.....	1,536	1,919	2,333				
Eastham town.....	430	518	502	<b>Bristol County.....</b>	<b>359,005</b>	<b>318,573</b>	<b>252,029</b>
Falmouth town.....	3,500	3,144	3,500	Acushnet town.....	3,075	1,602	1,221
Harwich town.....	1,846	2,115	2,334	Attleboro city <sup>1</sup> .....	19,731	16,215	11,335
Mashpee town.....	242	270	303	Berkley town.....	935	999	949
Orleans town.....	1,012	1,077	1,123	Dartmouth town <sup>1</sup> .....	6,493	4,378	3,669
Provincetown town.....	4,240	4,309	4,247	Dighton town.....	2,574	2,235	1,802
Sandwich town.....	1,458	1,688	1,448	Easton town.....	5,041	5,139	4,837
Truro town.....	554	655	767	Fairhaven town.....	7,261	5,122	3,567
Wellfleet town.....	826	1,022	988	Fall River city.....	120,485	119,295	104,863
Yarmouth town.....	1,229	1,420	1,682	Freetown town.....	1,532	1,471	1,394
				Mansfield town.....	6,265	5,183	4,006
<b>Berkshire County.....</b>	<b>113,033</b>	<b>105,259</b>	<b>95,667</b>	New Bedford city <sup>1</sup> .....	121,217	96,652	62,442
Adams town.....	12,067	13,026	11,134	North Attleborough town.....	9,238	9,662	7,253
Alford town.....	248	275	272	Norton town.....	2,374	2,544	1,826
Becket town.....	674	950	904	Raynham town.....	1,695	1,725	1,540
Cheshire town.....	1,476	1,508	1,221	Rehoboth town.....	2,005	2,001	1,840
Clarksburg town.....	1,186	1,207	943	Seekonk town.....	2,898	2,397	1,673
Dalton town.....	3,752	3,568	3,014	Somerset town.....	3,520	2,798	2,241
Egremont town.....	441	605	758	Swansea town.....	2,334	1,978	1,645
Florida town.....	298	395	390	Taunton city.....	37,137	34,259	31,086
Great Barrington town.....	6,315	5,926	5,854	Westport town.....	3,115	2,928	2,890
Hancock town.....	464	465	451				
Hinsdale town.....	1,005	1,116	1,485	<b>Dukes County.....</b>	<b>4,372</b>	<b>4,504</b>	<b>4,561</b>
Lanesborough town.....	1,054	947	780	Chilmark town.....	240	282	324
Lee town.....	4,085	4,106	3,596	Edgartown town.....	1,190	1,191	1,209
Lenox town.....	2,091	3,090	2,942	Gay Head town.....	144	162	173
Monterey town.....	232	388	455	Gosnold town.....	131	152	184
Mount Washington town.....	73	110	122	Oak Bluffs town.....	1,047	1,034	1,100
New Ashford town.....	116	92	107	Tisbury town.....	1,275	1,196	1,149
New Marlborough town.....	1,010	1,124	1,232	West Tisbury town.....	345	427	442
North Adams city.....	22,232	22,019	24,200				
Otis town.....	861	494	476	<b>Essex County.....</b>	<b>482,156</b>	<b>436,477</b>	<b>357,030</b>
Peru town.....	149	237	253	Amesbury town.....	10,036	9,894	9,473
Pittsfield city.....	41,763	39,121	21,768	Andover town.....	8,268	7,301	6,813
Richmond town.....	561	650	679	Beverly city.....	22,551	18,550	13,884
Sandisfield town.....	460	566	661	Boxford town.....	588	718	704
Savoy town.....	436	503	506	Danvers town.....	11,108	9,407	8,542
Sheffield town.....	1,435	1,817	1,804				
Stockbridge town.....	1,764	1,633	2,081				
Tyringham town.....	267	382	386				

<sup>1</sup> BRISTOL.—Attleborough town incorporated as Attleboro city since 1910. Part of Dartmouth town annexed to New Bedford city since 1910.



TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued

[For changes in boundaries etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. VI, Table 1, p. 858. For population of wards of cities, see Table 4.]

MINOR CIVIL DIVISION.	1920	1910	1900	MINOR CIVIL DIVISION.	1920	1910	1900
<b>Essex County—Continued.</b>				<b>Hampshire County.....</b>			
Essex town.....	1,478	1,621	1,663	Amherst town.....	5,550	5,112	5,028
Georgetown town.....	2,004	1,958	1,900	Belchertown town.....	2,058	2,054	2,292
Gloucester city.....	22,947	24,398	26,121	Chesterfield town.....	441	536	611
Groveland town.....	2,650	2,253	2,376	Cummington town.....	489	637	748
Hamilton town.....	1,631	1,749	1,614	Easthampton town.....	11,261	8,624	5,603
Haverhill city.....	53,884	44,115	37,175	Enfield town.....	790	874	1,036
Ipswich town.....	6,201	5,777	4,658	Goshen town.....	224	279	316
Lawrence city.....	94,270	85,892	62,559	Granby town.....	779	761	761
Lynn city.....	99,148	89,330	68,513	Greenwich town.....	399	452	491
Lynnfield town.....	1,166	911	888	Hadley town.....	2,784	1,999	1,789
Manchester town.....	2,466	2,673	2,522	Hatfield town.....	2,651	1,986	1,500
Marblehead town.....	7,324	7,338	7,582	Huntington town.....	1,425	1,473	1,475
Merrimac town.....	2,173	2,202	2,131	Middlefield town.....	280	354	410
Methuen city <sup>2</sup> .....	15,189	11,448	7,512	Northampton city.....	21,851	19,481	18,643
Middleton town.....	1,195	1,129	839	Pelham town.....	503	467	462
Nahant town.....	1,318	1,154	1,152	Plainfield town.....	332	406	404
Newbury town.....	1,303	1,482	1,601	Prescott town.....	236	320	380
Newburyport city.....	15,018	14,940	14,478	South Hadley town.....	5,527	4,894	4,526
North Andover town.....	6,265	5,520	4,243	Southampton town.....	814	870	1,012
Peabody city <sup>2</sup> .....	19,552	16,721	11,523	Ware town.....	8,525	8,774	8,263
Rockport town.....	3,878	4,211	4,592	Westhampton town.....	305	423	460
Rowley town.....	1,249	1,368	1,391	Williamsburg town.....	1,886	2,132	1,926
Salem city.....	42,520	43,697	35,950	Worthington town.....	409	569	675
Salisbury town.....	1,701	1,658	1,558				
Saugus town.....	10,874	8,047	6,084	<b>Middlesex County.....</b>			
Swampscott town.....	8,101	6,204	4,548	Acton town.....	778,352	669,915	565,696
Topsfield town.....	900	1,174	1,080	Arlington town.....	2,162	2,136	2,120
Wenham town.....	1,090	1,010	847	Ashby town.....	18,665	11,187	8,603
West Newbury town.....	1,402	1,473	1,558	Ashby town.....	834	885	876
				Ashland town.....	2,287	1,682	1,525
<b>Franklin County.....</b>				Ayer town.....	3,052	2,797	2,446
Ashfield town.....	869	959	955	Bedford town.....	1,362	1,231	1,208
Barnardston town.....	769	741	792	Belmont town.....	10,740	5,542	3,929
Buckland town.....	1,433	1,573	1,446	Billerica town.....	3,646	2,789	2,775
Charlmont town.....	808	1,001	1,094	Boxborough town.....	298	317	316
Colrain town.....	1,607	1,741	1,749	Burlington town.....	885	591	593
Conway town.....	961	1,230	1,458	Cambridge city.....	109,694	104,839	91,886
Deerfield town.....	2,803	2,209	1,969	Carlisle town.....	463	551	480
Erving town.....	1,295	1,148	973	Chelmsford town.....	5,682	5,010	3,984
Gill town.....	879	942	1,015	Concord town.....	6,461	6,421	5,652
Greenfield town.....	15,462	10,427	7,927	Dracut town.....	5,280	3,461	3,253
Hawley town.....	390	424	429	Dunstable town.....	353	408	427
Heath town.....	325	346	441	Everett city.....	40,120	33,484	24,336
Leverett town.....	685	728	744	Frammingham town.....	17,033	12,948	11,302
Leyden town.....	330	363	379	Groton town.....	2,185	2,155	2,052
Monroe town.....	173	246	305	Holliston town.....	2,707	2,711	2,598
Montague town.....	7,675	6,866	6,150	Hopkinton town.....	2,289	2,452	2,623
New Salem town.....	512	639	807	Hudson town.....	7,607	6,743	5,454
Northfield town.....	1,775	1,642	1,966	Lexington town.....	6,350	4,918	3,831
Orange town.....	5,393	5,282	5,520	Lincoln town.....	1,042	1,175	1,127
Rowe town.....	333	456	543	Littleton town.....	1,277	1,229	1,179
Shelburne town.....	1,436	1,498	1,508	Lowell city.....	112,294	106,294	94,969
Shutesbury town.....	242	267	382	Malden city <sup>1</sup> .....	49,103	44,404	33,064
Sunderland town.....	1,289	1,047	771	Marlborough city.....	15,028	14,579	13,609
Warwick town.....	327	477	619	Maynard town.....	7,086	6,390	3,142
Wendell town.....	346	502	492	Medford city <sup>1</sup> .....	39,038	23,160	18,244
Whately town.....	1,234	846	769	Melrose city.....	18,204	15,715	12,962
				Natick town.....	10,607	9,866	9,488
<b>Hampden County.....</b>				Newton city.....	40,054	39,806	33,587
Agawam town.....	5,023	3,501	2,536	North Reading town.....	1,286	1,059	1,035
Blandford town.....	479	717	836	Pepperell town.....	2,468	2,953	3,701
Brimfield town.....	778	866	941	Reading town.....	7,439	5,818	4,969
Chester town.....	1,302	1,377	1,450	Sherborn town.....	1,558	1,428	1,483
Chicopee city.....	30,214	25,401	19,167	Shirley town.....	2,260	2,139	1,680
East Longmeadow town.....	2,352	1,553	1,187	Somerville city.....	93,091	77,236	61,643
Granville town.....	655	781	1,050	Stoneham town.....	7,873	7,090	6,197
Hampden town.....	624	645	782	Stow town.....	1,101	1,115	1,002
Holland town.....	153	145	169	Sudbury town.....	1,121	1,120	1,150
Holyoke city.....	60,203	57,730	45,712	Tewksbury town.....	4,450	3,750	3,683
Longmeadow town <sup>2</sup> .....	2,618	1,084	811	Townsend town.....	1,575	1,761	1,804
Ludlow town.....	7,470	4,948	3,536	Tyngsborough town.....	1,044	829	773
Monson town.....	4,826	4,758	3,403	Wakefield town.....	13,025	11,404	9,290
Montgomery town.....	2,229	2,177	2,073	Waltham city.....	30,915	27,834	23,481
Palmer town.....	9,896	8,610	7,801	Watertown town.....	21,457	12,875	9,706
Russell town.....	1,237	965	793	Wayland town.....	1,935	2,206	2,303
Southwick town.....	1,194	1,020	1,040	Westford town.....	3,170	2,851	2,624
Springfield city <sup>2</sup> .....	129,614	88,926	62,059	Weston town.....	2,282	2,106	1,834
Tolland town.....	192	180	275	Wilmington town.....	2,581	1,888	1,596
Wales town.....	419	345	773	Winchester town.....	10,485	9,309	7,248
West Springfield town.....	13,443	9,224	7,105	Woburn city.....	16,674	15,308	14,254
Westfield town.....	18,604	16,044	12,310				
Wilbraham town.....	2,780	2,332	1,595	<b>Nantucket County.....</b>			
				Nantucket town.....	2,797	2,962	3,006

<sup>1</sup> ESSEX.—Methuen and Peabody towns incorporated as cities since 1910.

<sup>2</sup> HAMPDEN.—Part of Longmeadow town annexed to Springfield city since 1910.

<sup>1</sup> MIDDLESEX.—Boundary line between Malden and Medford cities changed since 1910.



# NUMBER AND DISTRIBUTION.

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TABLE 2.—POPULATION OF COUNTIES BY MINOR CIVIL DIVISIONS: 1920, 1910, AND 1900—Continued.

[For changes in boundaries, etc., between 1910 and 1920, see footnotes; for those between 1900 and 1910, see Reports of the Thirteenth Census: 1910, Vol. II, Table 1, p. 858. For population of wards of cities, see Table 4.]

MINOR CIVIL DIVISION.	1920	1910	1900	MINOR CIVIL DIVISION.	1920	1910	1900
<b>Norfolk County</b> .....	<b>219,081</b>	<b>187,506</b>	<b>151,539</b>	<b>Worcester County</b> .....	<b>455,135</b>	<b>399,657</b>	<b>346,958</b>
Avon town.....	2,176	2,013	1,741	Ashburnham town.....	2,012	2,107	1,882
Bellingham town.....	2,102	1,696	1,682	Athol town.....	9,792	8,536	7,061
Braintree town.....	10,580	8,066	5,981	Auburn town.....	3,801	2,420	1,621
Brookline town.....	37,748	27,792	19,935	Barre town.....	3,357	2,657	2,059
Canton town.....	5,945	4,797	4,584	Berlin town.....	868	904	1,005
Cohasset town.....	2,630	2,585	2,759	Blackstone town <sup>1</sup> .....	4,299	5,648	6,721
Dedham town.....	10,792	9,284	7,457	Bolton town.....	708	784	770
Dover town.....	807	798	656	Boylston town.....	704	714	1,364
Foxborough town.....	4,130	3,883	3,266	Brookfield town.....	2,216	2,204	3,032
Franklin town.....	6,497	5,641	5,017	Charlton town.....	1,995	2,032	1,860
Holbrook town.....	3,161	2,816	2,229	CClinton town.....	12,979	13,075	13,667
Medfield town.....	3,595	3,466	2,926	Dana town.....	599	738	790
Medway town.....	2,956	2,696	2,761	Douglas town.....	2,181	2,152	2,113
Millis town.....	1,485	1,390	1,053	Dudley town.....	3,701	4,267	3,553
Milton town.....	9,382	7,924	6,578	Fitchburg city.....	41,029	37,826	31,631
Needham town.....	7,012	5,026	4,010	Gardner town.....	16,971	14,699	10,813
Norfolk town.....	1,159	960	980	Grafton town.....	6,887	5,705	4,869
Norwood town.....	12,627	8,014	5,480	Hardwick town.....	3,085	3,624	3,203
Plainville town.....	1,365	1,385	1,034	Harvard town.....	2,546	1,094	1,130
Quincy city.....	47,876	32,642	23,899	Holden town.....	2,970	2,147	2,464
Randolph town.....	4,756	4,301	3,993	Hopedale town.....	2,777	2,188	2,087
Sharon town.....	2,487	2,310	2,080	Hubbardston town.....	1,045	1,073	1,227
Stoughton town.....	6,895	6,316	5,442	Lancaster town.....	2,481	2,464	2,478
Walpole town.....	5,446	4,892	3,572	Leicester town.....	3,635	3,237	3,416
Wellesley town.....	6,224	5,413	5,072	Leominster city <sup>1</sup> .....	19,744	17,580	12,392
Westwood town.....	1,358	1,266	1,112	Lunenburg town.....	1,634	1,393	1,332
Weymouth town.....	15,057	12,895	11,324	Mendon town.....	961	880	911
Wrentham town.....	2,808	1,743	2,720	Millford town.....	13,471	13,055	11,376
<b>Plymouth County</b> .....	<b>156,968</b>	<b>144,337</b>	<b>113,985</b>	Millbury town.....	5,053	4,740	4,460
Abington town.....	5,787	5,455	4,489	Millville town <sup>1</sup> .....	2,224	.....	.....
Bridgewater town.....	8,438	7,688	5,806	New Braintree town.....	394	464	500
Brookton city.....	66,254	56,878	40,063	North Brookfield town.....	2,610	3,075	4,587
Carver town.....	891	1,663	1,104	Northborough town.....	1,753	1,713	2,164
Duxbury town.....	1,553	1,688	2,075	Northbridge town.....	10,174	8,807	7,036
East Bridgewater town.....	3,486	3,363	3,025	Oakham town.....	477	552	588
Halifax town.....	593	550	522	Oxford town.....	3,820	3,361	2,677
Hanover town.....	2,675	2,326	2,152	Paxton town.....	489	416	459
Hanson town.....	1,010	1,854	1,455	Petersham town.....	642	757	853
Hingham town.....	5,604	4,965	5,059	Phillipston town.....	354	426	441
Hull town.....	1,771	2,103	1,703	Princeton town.....	682	818	975
Kingston town.....	2,505	2,445	1,955	Royalston town.....	819	792	958
Lakeville town.....	1,410	1,141	958	Rutland town.....	1,743	1,743	1,334
Marion town.....	1,288	1,460	902	Shrewsbury town.....	3,708	1,946	1,626
Marshfield town.....	1,379	1,738	1,810	Southborough town.....	1,838	1,745	1,921
Mattapoisett town.....	1,277	1,233	1,061	Southbridge town.....	14,245	12,592	10,025
Middleborough town.....	8,453	8,214	6,885	Spencer town.....	5,930	6,740	7,627
Norwell town.....	1,343	1,410	1,560	Sterling town.....	1,305	1,359	1,420
Pembroke town.....	1,358	1,336	1,240	Sturbridge town.....	1,673	1,957	2,068
Plymouth town.....	13,045	12,141	9,592	Sutton town.....	2,678	3,078	3,328
Plympton town.....	469	561	488	Templeton town.....	4,019	3,756	3,489
Rochester town.....	1,047	1,090	986	Upton town.....	1,693	2,071	1,937
Rockland town.....	7,544	6,928	5,327	Uxbridge town.....	5,884	4,671	3,599
Scituate town.....	2,534	2,482	2,470	Warren town.....	3,497	4,188	4,417
Wareham town.....	4,415	4,102	3,432	Webster town.....	13,258	11,509	8,804
West Bridgewater town.....	2,908	2,231	1,711	West Boylston town.....	1,624	1,270	2,314
Whitman town.....	7,147	7,292	6,155	West Brookfield town.....	1,281	1,327	1,448
<b>Suffolk County</b> <sup>2</sup> .....	<b>835,522</b>	<b>731,388</b>	<b>611,417</b>	Westborough town.....	5,789	5,446	5,400
Boston city <sup>3</sup> .....	748,060	670,585	560,892	Westminster town.....	1,343	1,353	1,327
Chelsea city.....	43,184	32,452	34,072	Winchendon town.....	5,904	5,678	5,001
Revere city <sup>4</sup> .....	28,823	18,219	10,395	Worcester city.....	179,754	145,986	118,421
Winthrop town.....	15,455	10,132	6,058				

<sup>1</sup> NORFOLK.—County totals include population (15,507 in 1910; 13,244 in 1900) of Hyde Park town, annexed to Boston city, Suffolk County, in 1912.

<sup>2</sup> SUFFOLK.—Hyde Park town, formerly in Norfolk County, annexed to Boston city in 1912. Revere town incorporated as a city since 1910.

<sup>3</sup> WORCESTER.—Part of Blackstone town taken to form Millville town since 1910. Leominster town incorporated as a city since 1910.



TABLE 3.—POPULATION OF ALL CITIES, AND OF TOWNS HAVING, IN 1920, 2,500 INHABITANTS OR MORE: 1920, 1910, AND 1900.

CITY OR TOWN.	County.	1920	1910	1900	CITY OR TOWN.	County.	1920	1910	1900
CITIES.					TOWNS—continued.				
Attleboro <sup>1</sup> .....	Bristol.....	19,731	16,215	11,335	Groveland.....	Essex.....	2,050	2,253	2,376
Beverly.....	Essex.....	22,561	18,650	13,884	Hadley.....	Hampshire.....	2,784	1,999	1,789
Boston <sup>1</sup> .....	Suffolk.....	748,060	670,585	500,892	Hanover.....	Plymouth.....	2,575	2,326	2,152
Brockton.....	Plymouth.....	66,254	56,878	40,063	Hardwick.....	Worcester.....	3,085	3,524	3,203
Cambridge.....	Middlesex.....	109,694	104,839	91,886	Harvard.....	Worcester.....	2,546	1,034	1,139
Chelsea.....	Suffolk.....	43,184	32,452	34,072	Hatfield.....	Hampshire.....	2,651	1,985	1,500
Chicopee.....	Hampden.....	36,214	25,401	19,167	Hingham.....	Plymouth.....	5,604	4,965	5,059
Everett.....	Middlesex.....	40,120	33,484	24,336	Holbrook.....	Norfolk.....	3,161	2,816	2,229
Fall River.....	Bristol.....	120,485	119,295	104,863	Holden.....	Worcester.....	2,970	2,147	2,404
Fitchburg.....	Worcester.....	41,029	37,826	31,531	Holliston.....	Middlesex.....	2,707	2,711	2,598
Gloucester.....	Essex.....	22,947	24,398	26,121	Hopedale.....	Worcester.....	2,777	2,188	2,087
Haverhill.....	Essex.....	53,854	44,115	37,175	Hudson.....	Middlesex.....	7,607	6,743	5,454
Holyoke.....	Hampden.....	60,203	57,730	45,712	Ipswich.....	Essex.....	6,201	5,777	4,658
Lawrence.....	Essex.....	94,270	85,892	62,559	Kingston.....	Plymouth.....	2,505	2,445	1,955
Leominster <sup>1</sup> .....	Worcester.....	19,744	17,580	12,392	Lee.....	Berkshire.....	4,085	4,106	3,596
Lowell.....	Middlesex.....	112,759	106,294	94,969	Leicester.....	Worcester.....	3,035	3,237	3,416
Lynn.....	Essex.....	99,148	99,336	68,513	Lenox.....	Berkshire.....	2,691	3,060	2,942
Malden <sup>1</sup> .....	Middlesex.....	49,103	44,404	33,664	Lexington.....	Middlesex.....	6,350	4,918	3,831
Marlborough.....	Middlesex.....	15,028	14,579	13,609	Longmeadow <sup>1</sup> .....	Hampden.....	2,618	1,084	811
Medford <sup>1</sup> .....	Middlesex.....	39,038	23,150	18,244	Ludlow.....	Hampden.....	7,470	4,948	3,536
Melrose.....	Middlesex.....	18,204	15,715	12,962	Mansfield.....	Bristol.....	6,255	5,183	4,006
Methuen <sup>1</sup> .....	Essex.....	15,180	11,448	7,512	Marblehead.....	Essex.....	7,324	7,338	7,582
New Bedford <sup>1</sup> .....	Bristol.....	121,217	96,652	62,442	Maynard.....	Middlesex.....	7,086	6,390	3,142
Newburyport.....	Essex.....	15,618	14,949	14,478	Medfield.....	Norfolk.....	3,595	3,466	2,926
Newton.....	Middlesex.....	46,064	39,806	33,587	Medway.....	Norfolk.....	2,956	2,696	2,761
North Adams.....	Berkshire.....	22,282	22,019	24,200	Middleborough.....	Plymouth.....	8,453	8,214	6,885
Northampton.....	Hampshire.....	21,951	19,431	18,643	Millford.....	Worcester.....	13,471	13,055	11,376
Peabody <sup>1</sup> .....	Essex.....	19,552	15,721	11,523	Millbury.....	Worcester.....	5,653	4,740	4,460
Pittsfield.....	Berkshire.....	41,763	32,121	21,766	Milton.....	Norfolk.....	9,332	7,924	6,578
Quincy.....	Norfolk.....	47,876	32,642	23,899	Monson.....	Hampden.....	4,826	4,758	3,402
Revere <sup>1</sup> .....	Suffolk.....	28,823	18,219	10,395	Montague.....	Franklin.....	7,675	6,866	6,150
Salem.....	Essex.....	42,529	43,697	35,956	Nantucket.....	Nantucket.....	2,797	2,962	3,006
Somerville.....	Middlesex.....	93,091	77,236	61,643	Natick.....	Middlesex.....	10,907	9,866	9,488
Springfield <sup>1</sup> .....	Hampden.....	129,614	88,926	62,059	Needham.....	Norfolk.....	7,012	5,026	4,016
Taunton.....	Bristol.....	37,137	34,259	31,036	North Andover.....	Essex.....	6,265	5,529	4,243
Wakham.....	Middlesex.....	30,915	27,834	23,481	North Attleborough.....	Bristol.....	9,238	9,562	7,253
Woburn.....	Middlesex.....	16,574	15,308	14,254	North Brookfield.....	Worcester.....	2,610	3,075	4,587
Worcester.....	Worcester.....	179,754	145,986	118,421	Northbridge.....	Worcester.....	10,174	8,807	7,036
TOWNS.					Norwood.....	Norfolk.....	12,627	8,014	5,480
Abington.....	Plymouth.....	5,787	5,455	4,489	Orange.....	Franklin.....	5,393	5,282	5,520
Acushnet.....	Bristol.....	3,075	1,692	1,221	Oxford.....	Worcester.....	3,820	3,361	2,677
Adams.....	Berkshire.....	12,967	13,026	11,134	Palmer.....	Hampden.....	9,896	8,610	7,801
Agawam.....	Hampden.....	5,023	3,501	2,536	Plymouth.....	Plymouth.....	13,045	12,141	9,592
Amesbury.....	Essex.....	10,036	9,894	9,473	Provincetown.....	Barnstable.....	4,246	4,869	4,247
Amherst.....	Hampshire.....	5,550	5,112	5,028	Randolph.....	Norfolk.....	4,758	4,301	3,993
Andover.....	Essex.....	8,268	7,301	6,813	Reading.....	Middlesex.....	7,439	5,818	4,969
Arlington.....	Middlesex.....	18,665	11,187	8,603	Rockland.....	Plymouth.....	7,544	6,928	5,327
Athol.....	Worcester.....	9,792	8,536	7,061	Rockport.....	Essex.....	3,878	4,211	4,592
Auburn.....	Worcester.....	3,891	2,420	1,621	Saugus.....	Essex.....	10,874	8,047	5,084
Ayer.....	Middlesex.....	3,052	2,797	2,446	Scituate.....	Plymouth.....	2,534	2,482	2,470
Barnstable.....	Barnstable.....	4,836	4,676	4,364	Seekonk.....	Bristol.....	2,898	2,397	1,673
Barre.....	Worcester.....	3,367	2,957	2,059	Shrewsbury.....	Worcester.....	3,708	1,946	1,626
Belmont.....	Middlesex.....	10,749	5,542	3,920	Somerset.....	Bristol.....	3,520	2,798	2,241
Billerica.....	Middlesex.....	3,046	2,789	2,775	South Hadley.....	Hampshire.....	5,527	4,894	4,526
Blackstone <sup>1</sup> .....	Worcester.....	4,299	5,648	5,721	Southbridge.....	Worcester.....	14,245	12,592	10,025
Bourne.....	Barnstable.....	2,530	2,474	1,657	Spencer.....	Worcester.....	5,930	6,740	7,627
Braintree.....	Norfolk.....	10,580	8,066	5,931	Stoneham.....	Middlesex.....	7,873	7,090	6,197
Bridgewater.....	Plymouth.....	8,438	7,688	5,806	Stoughton.....	Norfolk.....	6,865	6,316	5,442
Brookline.....	Norfolk.....	37,748	27,792	19,935	Sutton.....	Worcester.....	2,578	3,078	3,328
Canton.....	Norfolk.....	5,945	4,797	4,584	Swampscott.....	Essex.....	8,101	6,204	4,548
Chelmsford.....	Middlesex.....	5,682	5,010	3,984	Templeton.....	Worcester.....	4,010	3,756	3,489
Clinton.....	Worcester.....	12,979	13,075	13,667	Tewksbury.....	Middlesex.....	4,450	3,750	3,683
Cohasset.....	Norfolk.....	2,639	2,585	2,759	Uxbridge.....	Worcester.....	5,384	4,671	3,599
Concord.....	Middlesex.....	6,461	6,421	5,652	Wakefield.....	Middlesex.....	13,025	11,404	9,290
Dalton.....	Berkshire.....	3,752	3,568	3,014	Walpole.....	Norfolk.....	5,446	4,892	3,572
Danvers.....	Essex.....	11,108	9,407	8,542	Ware.....	Hampshire.....	8,525	8,774	8,263
Dartmouth <sup>1</sup> .....	Bristol.....	6,493	4,378	3,669	Wareham.....	Plymouth.....	4,415	4,102	3,432
Dedham.....	Norfolk.....	10,792	9,284	7,457	Warren.....	Worcester.....	3,467	4,188	4,417
Deerfield.....	Franklin.....	2,803	2,209	1,969	Watertown.....	Middlesex.....	21,457	12,875	9,706
Dighton.....	Bristol.....	2,574	2,235	1,802	Webster.....	Worcester.....	13,258	11,509	8,804
Dracut.....	Middlesex.....	5,280	3,461	3,253	Wellesley.....	Norfolk.....	6,224	5,413	5,072
Dudley.....	Worcester.....	3,701	4,267	3,553	West Bridgewater.....	Plymouth.....	2,908	2,231	1,711
East Bridgewater.....	Plymouth.....	3,486	3,363	3,025	West Springfield.....	Hampden.....	13,443	9,224	7,105
Easthampton.....	Hampshire.....	11,261	8,524	5,603	Westborough.....	Worcester.....	5,789	5,446	5,400
Easton.....	Bristol.....	5,041	5,139	4,837	Westfield.....	Hampden.....	18,604	10,044	12,310
Fairhaven.....	Bristol.....	7,291	5,122	3,567	Westford.....	Middlesex.....	3,170	2,851	2,624
Falmouth.....	Barnstable.....	3,500	3,144	3,500	Westport.....	Bristol.....	3,115	2,928	2,890
Foxborough.....	Norfolk.....	4,136	3,863	3,266	Weymouth.....	Norfolk.....	15,067	12,895	11,324
Framingham.....	Middlesex.....	17,033	12,948	11,302	Whitman.....	Plymouth.....	7,147	7,292	6,155
Franklin.....	Norfolk.....	6,497	5,641	5,017	Wilbraham.....	Hampden.....	2,780	2,332	1,595
Gardner.....	Worcester.....	16,971	14,690	10,813	Williamstown.....	Berkshire.....	3,707	3,708	5,013
Grafton.....	Worcester.....	6,887	5,705	4,869	Wilmington.....	Middlesex.....	2,581	1,858	1,596
Great Barrington.....	Berkshire.....	6,315	5,926	5,854	Winchendon.....	Worcester.....	5,904	5,678	5,001
Greenfield.....	Franklin.....	15,462	10,427	7,327	Winchester.....	Middlesex.....	10,486	9,306	7,248
					Winthrop.....	Suffolk.....	16,455	10,132	6,058
					Wrentham.....	Norfolk.....	2,808	1,743	2,720

<sup>1</sup> See county footnote, Table 2.



# NUMBER AND DISTRIBUTION.

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TABLE 4.—POPULATION OF WARDS OF CITIES: 1920.

WARD.	1920	WARD.	1920	WARD.	1920	WARD.	1920
<b>Attleboro city.....</b>	<b>19,731</b>	<b>Fall River city.....</b>	<b>120,485</b>	<b>Malden city—Contd.</b>		<b>Pittsfield city.....</b>	<b>41,763</b>
Ward 1.....	4,721	Ward 1.....	23,917	Ward 3.....	5,831	Ward 1.....	6,168
Ward 2.....	3,295	Ward 2.....	13,798	Ward 4.....	5,009	Ward 2.....	6,603
Ward 3.....	3,289	Ward 3.....	12,673	Ward 5.....	7,784	Ward 3.....	6,491
Ward 4.....	3,608	Ward 4.....	11,641	Ward 6.....	8,177	Ward 4.....	5,427
Ward 5.....	4,808	Ward 5.....	10,885	Ward 7.....	10,139	Ward 5.....	5,575
<b>Beverly city.....</b>	<b>22,561</b>	Ward 6.....	17,689	<b>Marlborough city.....</b>	<b>15,028</b>	Ward 6.....	6,232
Ward 1.....	5,772	Ward 7.....	4,827	Ward 1.....	2,262	Ward 7.....	5,277
Ward 2.....	2,840	Ward 8.....	10,179	Ward 2.....	2,099	<b>Quincy city.....</b>	<b>47,876</b>
Ward 3.....	3,843	Ward 9.....	14,876	Ward 3.....	2,271	Ward 1.....	9,179
Ward 4.....	4,302	<b>Fitchburg city.....</b>	<b>41,029</b>	Ward 4.....	2,446	Ward 2.....	8,405
Ward 5.....	4,266	Ward 1.....	6,475	Ward 5.....	1,879	Ward 3.....	8,422
Ward 6.....	1,529	Ward 2.....	11,571	Ward 6.....	1,945	Ward 4.....	5,824
<b>Boston city.....</b>	<b>748,060</b>	Ward 3.....	6,460	Ward 7.....	2,126	Ward 5.....	9,117
Ward 1.....	24,738	Ward 4.....	4,496	<b>Medford city.....</b>	<b>39,038</b>	Ward 6.....	6,029
Ward 2.....	38,313	Ward 5.....	4,088	Ward 1.....	5,422	<b>Revere city.....</b>	<b>28,823</b>
Ward 3.....	18,566	Ward 6.....	7,939	Ward 2.....	5,107	Ward 1.....	5,043
Ward 4.....	15,706	<b>Gloucester city.....</b>	<b>22,947</b>	Ward 3.....	4,121	Ward 2.....	7,655
Ward 5.....	63,267	Ward 1.....	2,578	Ward 4.....	5,731	Ward 3.....	7,976
Ward 6.....	35,030	Ward 2.....	4,408	Ward 5.....	8,908	Ward 4.....	6,109
Ward 7.....	38,091	Ward 3.....	3,893	Ward 6.....	6,925	Ward 5.....	2,841
Ward 8.....	39,105	Ward 4.....	1,802	Ward 7.....	2,824	<b>Salem city.....</b>	<b>42,629</b>
Ward 9.....	28,959	Ward 5.....	4,057	<b>Melrose city.....</b>	<b>18,204</b>	Ward 1.....	6,511
Ward 10.....	25,727	Ward 6.....	3,321	Ward 1.....	2,484	Ward 2.....	6,703
Ward 11.....	20,875	Ward 7.....	1,676	Ward 2.....	2,938	Ward 3.....	6,040
Ward 12.....	28,015	Ward 8.....	1,612	Ward 3.....	2,787	Ward 4.....	5,949
Ward 13.....	26,380	<b>Haverhill city.....</b>	<b>53,884</b>	Ward 4.....	2,101	Ward 5.....	12,012
Ward 14.....	20,003	Ward 1.....	3,183	Ward 5.....	2,816	Ward 6.....	6,414
Ward 15.....	25,960	Ward 2.....	2,936	Ward 6.....	2,739	<b>Somerville city.....</b>	<b>93,091</b>
Ward 16.....	20,363	Ward 3.....	3,754	Ward 7.....	2,859	Ward 1.....	12,331
Ward 17.....	27,277	Ward 4.....	5,675	<b>Methuen city.....</b>	<b>15,189</b>	Ward 2.....	14,016
Ward 18.....	28,547	Ward 5.....	18,971	(Not reported by wards.)		Ward 3.....	8,836
Ward 19.....	24,810	Ward 6.....	10,537	<b>New Bedford city.....</b>	<b>121,217</b>	Ward 4.....	9,221
Ward 20.....	26,546	Ward 7.....	8,828	Ward 1.....	28,205	Ward 5.....	12,669
Ward 21.....	33,938	<b>Holyoke city.....</b>	<b>60,203</b>	Ward 2.....	20,745	Ward 6.....	16,586
Ward 22.....	25,989	Ward 1.....	9,114	Ward 3.....	12,542	Ward 7.....	19,432
Ward 23.....	24,904	Ward 2.....	8,996	Ward 4.....	12,345	<b>Springfield city.....</b>	<b>129,614</b>
Ward 24.....	23,840	Ward 3.....	11,912	Ward 5.....	18,018	Ward 1.....	16,110
Ward 25.....	22,082	Ward 4.....	7,466	Ward 6.....	28,704	Ward 2.....	22,466
Ward 26.....	20,020	Ward 5.....	5,648	<b>Newburyport city.....</b>	<b>15,618</b>	Ward 3.....	13,143
<b>Brookton city.....</b>	<b>66,254</b>	Ward 6.....	7,529	Ward 1.....	2,651	Ward 4.....	14,786
Ward 1.....	9,914	Ward 7.....	9,538	Ward 2.....	3,367	Ward 5.....	12,625
Ward 2.....	8,339	<b>Lawrence city.....</b>	<b>94,270</b>	Ward 3.....	2,203	Ward 6.....	13,061
Ward 3.....	9,583	Ward 1.....	16,621	Ward 4.....	2,357	Ward 7.....	14,714
Ward 4.....	7,230	Ward 2.....	14,967	Ward 5.....	2,662	Ward 8.....	22,709
Ward 5.....	9,143	Ward 3.....	14,549	Ward 6.....	2,378	<b>Taunton city.....</b>	<b>37,137</b>
Ward 6.....	11,946	Ward 4.....	13,066	<b>Newton city.....</b>	<b>46,054</b>	Ward 1.....	4,177
Ward 7.....	10,090	Ward 5.....	18,121	Ward 1.....	5,451	Ward 2.....	3,087
<b>Cambridge city.....</b>	<b>109,694</b>	Ward 6.....	16,946	Ward 2.....	8,865	Ward 3.....	3,350
Ward 1.....	5,810	<b>Leominster city.....</b>	<b>19,744</b>	Ward 3.....	6,979	Ward 4.....	5,465
Ward 2.....	5,886	Ward 1.....	3,069	Ward 4.....	4,925	Ward 5.....	6,284
Ward 3.....	10,068	Ward 2.....	6,150	Ward 5.....	7,522	Ward 6.....	3,793
Ward 4.....	9,780	Ward 3.....	4,171	Ward 6.....	7,737	Ward 7.....	4,092
Ward 5.....	10,401	Ward 4.....	2,598	Ward 7.....	4,575	Ward 8.....	6,889
Ward 6.....	10,401	<b>Lowell city.....</b>	<b>112,759</b>	<b>North Adams city.....</b>	<b>22,282</b>	<b>Waltham city.....</b>	<b>30,915</b>
Ward 7.....	13,127	Ward 1.....	9,933	Ward 1.....	3,002	Ward 1.....	5,184
Ward 8.....	12,488	Ward 2.....	12,981	Ward 2.....	3,279	Ward 2.....	5,314
Ward 9.....	9,629	Ward 3.....	13,180	Ward 3.....	2,455	Ward 3.....	4,305
Ward 10.....	12,706	Ward 4.....	9,816	Ward 4.....	3,642	Ward 4.....	4,019
Ward 11.....	8,828	Ward 5.....	9,273	Ward 5.....	3,824	Ward 5.....	3,676
<b>Chelsea city.....</b>	<b>43,184</b>	Ward 6.....	22,002	Ward 6.....	2,995	Ward 6.....	4,944
Ward 1.....	8,385	Ward 7.....	12,414	Ward 7.....	3,535	Ward 7.....	3,473
Ward 2.....	11,612	Ward 8.....	12,046	<b>Northampton city.....</b>	<b>21,951</b>	<b>Woburn city.....</b>	<b>16,574</b>
Ward 3.....	8,572	Ward 9.....	11,164	Ward 1.....	3,145	Ward 1.....	2,824
Ward 4.....	7,057	<b>Lynn city.....</b>	<b>99,148</b>	Ward 2.....	3,287	Ward 2.....	3,204
Ward 5.....	7,558	Ward 1.....	3,398	Ward 3.....	4,469	Ward 3.....	2,823
<b>Chilcopee city.....</b>	<b>36,214</b>	Ward 2.....	3,656	Ward 4.....	3,881	Ward 4.....	2,661
Ward 1.....	4,141	Ward 3.....	20,619	Ward 5.....	2,661	Ward 5.....	1,881
Ward 2.....	3,998	Ward 4.....	17,690	Ward 6.....	2,416	Ward 6.....	2,565
Ward 3.....	5,092	Ward 5.....	20,900	Ward 7.....	2,092	Ward 7.....	1,116
Ward 4.....	5,509	Ward 6.....	24,351	<b>Peabody city.....</b>	<b>19,552</b>	<b>Worcester city.....</b>	<b>179,754</b>
Ward 5.....	5,783	Ward 7.....	5,534	Ward 1.....	2,559	Ward 1.....	16,630
Ward 6.....	5,523	<b>Malden city.....</b>	<b>49,103</b>	Ward 2.....	3,784	Ward 2.....	18,432
Ward 7.....	8,168	Ward 1.....	5,885	Ward 3.....	2,197	Ward 3.....	24,074
<b>Everett city.....</b>	<b>40,120</b>	Ward 2.....	6,278	Ward 4.....	4,411	Ward 4.....	22,119
Ward 1.....	4,139	<b>Malden city.....</b>	<b>49,103</b>	Ward 5.....	3,293	Ward 5.....	22,517
Ward 2.....	7,806	Ward 1.....	5,885	Ward 6.....	3,308	Ward 6.....	18,181
Ward 3.....	10,773	Ward 2.....	6,278			Ward 7.....	16,068
Ward 4.....	6,390					Ward 8.....	13,592
Ward 5.....	4,801					Ward 9.....	14,280
Ward 6.....	6,211					Ward 10.....	13,861



## COMPOSITION AND CHARACTERISTICS OF THE POPULATION.

This section gives detailed statistics as to the composition and characteristics of the population on January 1, 1920. It contains detailed tables which present statistics of color or race, nativity, parentage, sex, age, school attendance, citizenship, illiteracy, dwellings and families, and country of birth, for the state, and for its counties and cities. There are, besides, eight summary tables which reproduce from the detailed tables the more important state and city totals, and, also, tables which cover the following subjects, not included in the second series of state bulletins: Marital condition, state of birth, year of immigration, inability to speak English, country of origin, mother tongue, and ownership of homes. The full presentation of all these subjects is contained in Volume II of the Fourteenth Census Reports.

The principal occupations, as reported for persons 10 years of age and over, are given by sex, color or race, nativity, parentage, and age periods, followed by a summary, by marital condition and age groups, of women gainfully occupied.

Because of the wide differences in characteristics among the various classes of the population, the statistics on each subject are shown according to color or race, and for the white population according to nativity and parentage. Classification according to nativity and parentage has not been deemed necessary for the other races, since nearly all Negroes and Indians are natives of native parentage, while nearly all Chinese and Japanese are 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 certain tables; and in some cases all three native classes are combined.

The presentation of statistics on country of birth of the foreign-born white population is made on the basis of the postwar map. Because of the many political changes which have resulted from the war, comparative figures for 1910 for this class of the population by individual European countries are not presented here.

Since marked differences often exist between urban and rural communities with respect to the composition and characteristics of their population, the two classes

are shown separately in connection with several of the subjects. Urban population, as defined by the Census Bureau, is that residing in cities and other incorporated places having 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 school, college, or any kind of educational institution at any time between September 1, 1919, and the census date, January 1, 1920.

The Census Bureau classifies as illiterate any person 10 years of age or over who is unable to write in any language, not necessarily English, regardless of ability to read.

The statistics of marital condition relate only to persons 15 years of age and over, as the number of persons under 15 who are married, widowed, or divorced is naturally insignificant. The terms refer only to the marital status of the population on the census date.

The returns as to state of birth are valuable mainly for the light they throw on the migration of the native population within the United States; they show, for each state, the population residing there on January 1, 1920, distributed as born in the state or elsewhere.

Since the foreign-born population consists mainly of foreign-born whites, the statistics for citizenship relate to this class only. The classification embraces four groups, namely, persons reported as naturalized, persons reported as having taken out first papers, persons reported as aliens, and persons for whom citizenship was not reported.

The inquiry as to year of immigration supplies a means for determining what proportion of the immigrants who arrived during a given year or period of years were still alive and residing in this country on the census date.

The foreign white stock comprises the total of three classes, the foreign-born whites, the native whites of foreign parentage (both parents born abroad), and the native whites of mixed parentage (one parent native and the other foreign born). The term "country of origin," as used in this report, signifies the country of birth of the father of a foreign-born person or the foreign-born parent or parents of a native. The term "mother tongue" means the language of customary speech in the homes of immigrants before immigration.



## POPULATION—MASSACHUSETTS.

TABLE 1.—COLOR OR RACE, NATIVITY, PARENTAGE, AND SEX, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920, 1910, AND 1900.

CLASS OF POPULATION.	NUMBER.			PER CENT OF TOTAL.			1920		1910		1900		MALES TO 100 FEMALES. <sup>1</sup>		
	1920	1910	1900	1920	1910	1900	Male.	Female.	Male.	Female.	Male.	Female.	1920	1910	1900
<b>THE STATE.</b>															
Total population.....	3,852,356	3,366,416	2,805,346	100.0	100.0	100.0	1,890,014	1,962,342	1,655,248	1,711,168	1,367,474	1,437,872	96.3	96.7	95.1
White.....	3,803,524	3,324,826	2,769,764	98.7	98.8	98.7	1,864,317	1,939,207	1,633,487	1,691,439	1,348,578	1,421,186	98.1	98.6	94.9
Negro.....	46,466	38,055	31,974	1.2	1.1	1.1	22,012	22,554	18,745	19,307	15,591	16,383	101.6	97.1	95.2
Indian.....	555	688	587	(2)	(2)	(2)	262	293	352	336	314	273	89.4	104.8	115.0
Chinese.....	2,544	2,582	2,968	0.1	0.1	0.1	2,307	237	2,518	64	2,940	28	97.3	97.3	97.3
Japanese.....	191	151	53	(2)	(2)	(2)	149	42	136	15	51	2	97.3	97.3	97.3
All other.....	76	14		(2)	(2)	(2)	67	9	7	7					
Native white, total.....	2,725,990	2,273,876	1,929,650	70.8	67.5	68.8	1,330,998	1,394,992	1,109,359	1,164,517	944,577	985,073	95.4	95.3	95.9
Native parentage.....	1,230,773	1,103,429	1,032,264	31.9	32.8	36.8	601,525	629,248	538,094	566,335	504,840	527,424	95.6	95.2	95.7
Foreign parentage.....	1,093,258	846,820	650,694	28.4	25.2	23.2	534,966	558,292	414,487	432,333	319,069	331,635	95.8	95.9	96.2
Mixed parentage.....	401,969	323,627	246,692	10.4	9.6	8.8	194,507	207,452	156,778	166,849	120,678	126,014	93.8	94.0	95.8
Foreign-born white.....	1,077,534	1,051,050	840,114	28.0	31.2	29.9	533,319	544,215	524,128	526,922	404,001	436,113	98.0	99.5	92.6
<b>URBAN POPULATION.</b>															
Total.....	3,650,248	3,125,367	2,567,098	100.0	100.0	100.0	1,788,597	1,861,651	1,532,741	1,592,626	1,247,180	1,319,938	96.1	96.2	94.5
White.....	3,603,616	3,087,146	2,534,100	98.7	98.8	98.7	1,764,089	1,839,527	1,512,895	1,574,251	1,229,650	1,304,450	95.9	96.1	94.3
Negro.....	43,624	35,243	29,867	1.2	1.1	1.2	21,908	21,716	17,101	18,142	14,498	15,369	100.9	94.3	94.3
Indian, Chinese, Japanese, and all other.....	3,008	2,978	3,131	0.1	0.1	0.1	2,600	408	2,745	233	3,012	119	937.3	1,178.1	2,531.1
Native white, total.....	2,558,510	2,078,565	1,732,586	70.1	66.5	67.5	1,247,180	1,311,330	1,011,691	1,066,874	846,336	880,250	95.1	94.8	95.5
Native parentage.....	1,116,638	962,238	880,116	30.6	30.8	34.3	544,430	572,208	467,358	494,880	429,422	450,694	95.1	94.4	95.3
Foreign parentage.....	1,050,167	812,893	852,470	29.0	26.0	23.2	517,800	541,367	397,499	415,394	416,914	435,556	95.6	95.7	95.7
Mixed parentage.....	382,705	303,434	249,999	10.5	9.7	8.8	184,950	197,755	146,834	156,600	120,678	126,014	93.8	94.0	95.8
Foreign-born white.....	1,045,106	1,008,581	801,514	28.6	32.3	31.2	516,909	528,197	501,204	507,377	383,314	418,200	97.9	98.8	91.7
<b>RURAL POPULATION.</b>															
Total.....	202,108	241,049	238,248	100.0	100.0	100.0	101,417	100,891	122,507	118,542	120,314	117,934	100.7	103.3	102.0
White.....	199,908	237,780	235,664	98.9	98.6	98.9	100,228	99,680	120,592	117,188	118,928	116,736	100.5	102.9	101.9
Negro.....	1,842	2,812	2,107	0.9	1.2	0.9	1,004	838	1,647	1,165	1,093	1,014	119.8	141.4	107.8
Indian, Chinese, Japanese, and all other.....	358	457	477	0.2	0.2	0.2	185	173	268	189	293	184	106.9	141.8	159.2
Native white, total.....	167,480	195,311	197,064	82.9	81.0	82.7	83,818	83,662	97,668	97,643	98,241	98,823	100.2	100.0	99.4
Native parentage.....	114,135	141,191	152,148	56.5	58.6	63.9	57,095	57,040	70,736	70,455	75,418	76,730	100.1	100.4	98.3
Foreign parentage.....	84,091	33,927	44,016	16.0	14.1	18.9	17,166	16,925	16,988	16,939	16,939	16,939	101.4	100.3	103.3
Mixed parentage.....	19,254	20,193	24,016	9.5	8.4	16.2	9,557	9,697	9,944	10,249	22,823	22,093	98.6	97.0	103.3
Foreign-born white.....	32,428	42,469	38,600	16.0	17.6	16.2	16,410	16,018	22,924	19,545	20,687	17,913	102.4	117.3	115.5

<sup>1</sup> Ratio not shown where number of females is less than 100. <sup>2</sup> Less than one-tenth of 1 per cent. <sup>3</sup> Comprises 63 Filipinos, 8 Hindus, 4 Koreans, and 1 Siamese.

TABLE 2.—SCHOOL ATTENDANCE, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920 AND 1910.

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

AGE PERIOD.	ALL CLASSES.			NATIVE WHITE.						FOREIGN-BORN WHITE.			NEGRO.		
	Total number.	Attending school.		Native parentage.			Foreign or mixed parentage.			Total number.	Attending school.		Total number.	Attending school.	
		Number.	Per cent.	Total number.	Attending school.	Per cent.	Total number.	Attending school.	Per cent.		Total number.	Number.		Per cent.	
THE STATE: 1920															
5 to 20 years, inclusive.....	1,055,088	721,326	68.4	339,537	248,612	73.2	618,552	426,674	69.0	85,797	38,576	45.0	10,746	7,188	66.9
Male.....	523,119	358,950	68.6	169,707	123,741	72.9	307,104	212,269	69.1	40,776	19,345	47.4	5,217	3,450	66.1
Female.....	531,969	362,376	68.1	169,830	124,871	73.5	311,388	214,405	68.9	45,021	19,231	42.7	5,529	3,738	67.6
5 and 6 years.....	147,876	88,202	59.6	49,607	30,747	62.1	93,016	55,189	59.8	2,943	1,465	49.7	1,434	768	53.6
7 to 13 years.....	433,762	264,752	61.1	157,444	101,889	64.8	285,246	162,873	57.4	26,130	13,549	51.8	4,795	2,689	56.3
14 and 15 years.....	122,214	90,290	73.9	38,914	32,275	82.9	80,969	49,829	61.5	7,161	5,922	82.8	1,193	984	82.5
16 and 17 years.....	121,257	49,260	40.6	37,874	20,320	53.7	86,955	24,561	28.2	15,115	3,854	25.5	1,259	553	43.9
18 to 20 years.....	179,979	28,822	16.0	55,798	13,331	24.0	92,466	12,577	13.6	29,515	2,547	8.6	2,065	285	13.8
URBAN POPULATION.															
5 and 6 years.....	140,526	84,411	60.1	45,579	28,646	62.8	90,675	53,574	59.1	2,862	1,429	49.9	1,358	737	54.5
7 to 13 years.....	457,508	280,441	61.3	143,063	93,009	65.0	284,399	167,116	58.8	25,384	13,173	51.9	4,553	2,687	59.2
14 to 20 years.....	401,951	158,312	39.4	120,816	59,842	49.5	221,222	83,475	37.7	55,392	13,173	23.8	4,380	1,736	40.1
RURAL POPULATION.															
5 and 6 years.....	7,350	3,791	51.6	3,928	2,101	53.5	3,241	1,615	49.8	80	36	45.0	81	31	37.6
7 to 13 years.....	26,256	15,311	58.3	14,376	9,380	65.4	10,847	6,462	59.6	746	694	93.0	242	231	95.5
14 to 20 years.....	21,499	10,060	46.8	11,770	6,134	52.1	8,168	3,432	42.0	1,327	339	25.6	187	86	46.0
THE STATE: 1910															
5 to 20 years, inclusive.....	941,376	614,105	65.2	298,043	213,802	71.7	496,559	339,593	68.4	136,964	54,269	39.7	9,368	6,086	65.0
Male.....	467,504	305,291	65.3	148,948	105,874	71.1	247,443	168,875	68.2	66,307	27,467	41.4	4,892	2,907	64.7
Female.....	473,872	308,814	65.2	149,095	107,928	72.4	249,116	170,718	68.5	70,657	26,802	38.1	4,476	3,179	65.2
5 and 6 years.....	120,445	74,490	61.8	38,676	24,189	62.7	72,934	45,406	62.4	7,714	4,115	53.3	1,183	675	57.1
7 to 13 years.....	401,970	255,813	63.6	130,709	82,093	62.8	230,422	143,715	62.4	36,715	19,072	51.9	3,993	2,382	59.7
14 and 15 years.....	112,463	82,672	73.5	36,969	30,551	82.6	60,413	43,026	71.2	13,913	8,150	58.6	1,124	810	71.2
16 and 17 years.....	116,563	43,519	37.3	36,851	19,684	53.4	57,912	19,298	33.3	20,620	4,061	19.7	1,117	444	39.7
18 to 20 years.....	189,985	27,611	14.5	54,938	13,685	24.9	74,878	9,678	12.9	58,002	3,971	6.8	1,946	224	11.5
URBAN POPULATION.															
5 and 6 years.....	112,240	70,237	62.6	34,073	21,842	64.1	69,610	43,748	62.8	7,478	4,011	53.6	1,063	628	59.1
7 to 13 years.....	373,316	235,349	63.0	114,304	72,024	63.1	219,810	143,325	65.2	35,506	19,072	53.7	3,624	2,382	65.7
14 to 20 years.....	391,457	142,229	36.3	113,360	56,246	49.6	184,947	68,719	37.2	89,125	15,732	17.7	3,829	1,493	39.0
RURAL POPULATION.															
5 and 6 years.....	8,205	4,253	51.8	4,503	2,347	52.1	3,324	1,748	52.6	236	104	44.1	120	48	40.0
7 to 13 years.....	28,654	17,464	61.0	16,405	10,769	65.6	10,612	10,172	95.9	1,209	1,125	93.1	374	346	92.5
14 to 20 years.....	27,504	11,673	42.4	15,398	7,674	49.8	8,266	3,283	39.8	3,410	1,450	42.5	358	115	32.1



## COMPOSITION AND CHARACTERISTICS.

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TABLE 3.—AGE, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920 AND 1910.

AGE PERIOD.	ALL CLASSES.			NATIVE WHITE.						FOREIGN-BORN WHITE.			NEGRO.		
	Total.	Male.	Female.	Native parentage.			Foreign or mixed parentage.			Total.	Male.	Female.	Total.	Male.	Female.
				Total.	Male.	Female.	Total.	Male.	Female.						
THE STATE.															
All ages: 1920.....	3,852,356	1,890,014	1,962,342	1,230,773	601,525	629,248	1,495,217	729,473	765,744	1,077,534	533,319	544,215	45,466	22,912	22,554
Under 5 years.....	385,701	194,536	191,225	141,475	71,574	69,901	236,985	119,291	117,094	2,824	1,430	1,388	4,308	2,145	2,153
Under 1 year.....	74,891	37,401	37,490	27,840	13,621	13,919	45,747	22,847	22,900	299	135	164	965	475	490
5 to 9 years.....	369,826	180,574	179,252	118,827	59,927	58,900	220,169	113,198	112,971	11,138	5,611	5,527	3,555	1,773	1,777
10 to 14 years.....	333,538	167,116	166,422	107,797	54,361	53,436	198,539	99,350	99,189	23,797	11,748	12,049	3,302	1,608	1,695
15 to 19 years.....	302,181	147,742	154,389	94,601	46,636	47,966	164,315	80,708	83,607	30,858	18,776	21,082	3,189	1,508	1,681
20 to 44 years.....	1,538,716	749,817	788,899	433,679	211,270	222,403	487,988	231,562	250,426	593,480	294,421	299,059	21,910	11,121	10,789
45 years and over.....	929,252	448,319	480,933	332,489	156,534	175,955	180,863	85,189	95,674	405,717	200,905	204,812	9,057	4,662	4,395
Age unknown.....	3,132	1,910	1,222	1,905	1,217	688	358	175	183	720	422	298	145	92	53
18 to 44 years.....	1,659,102	807,838	851,264	471,165	229,624	241,541	550,925	282,171	288,754	611,991	302,790	309,201	23,275	11,764	11,521
21 years and over.....	2,411,507	1,172,359	1,239,148	749,761	360,244	389,517	639,080	303,018	336,602	988,913	491,107	497,806	30,412	15,550	14,862
Per cent: 1920.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	10.0	10.3	9.7	11.5	11.9	11.1	15.8	16.4	15.4	0.3	0.3	0.3	9.5	9.4	9.6
Under 1 year.....	1.9	2.0	1.9	2.3	2.3	2.2	3.1	3.1	3.0	(1)	(1)	(1)	2.1	2.1	2.2
5 to 9 years.....	9.3	9.6	9.1	9.7	10.0	9.4	15.1	15.5	14.8	1.0	1.1	1.0	7.8	7.8	7.9
10 to 14 years.....	8.7	8.8	8.5	8.8	9.0	8.5	13.3	13.6	13.0	2.2	2.2	2.2	7.3	7.0	7.5
15 to 19 years.....	7.8	7.8	7.9	7.7	7.8	7.6	11.0	11.1	10.9	3.7	3.6	3.9	7.0	6.6	7.5
20 to 44 years.....	39.9	39.7	40.2	35.2	35.1	35.3	32.6	31.7	33.5	55.1	55.2	55.0	48.2	48.5	47.8
45 years and over.....	24.1	23.7	24.5	27.0	26.0	28.0	12.1	11.7	12.5	37.7	37.7	37.6	10.9	20.3	10.5
18 to 44 years.....	43.1	42.7	43.4	38.3	38.2	38.4	36.8	35.9	37.7	56.8	56.8	56.8	51.2	51.3	51.1
21 years and over.....	62.6	62.0	63.1	60.9	59.9	61.9	42.8	41.5	44.0	91.8	92.1	91.5	60.9	67.9	65.9
Per cent: 1910.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	9.8	10.0	9.5	9.8	10.2	9.4	17.8	18.4	17.3	0.8	0.8	0.8	9.1	8.9	9.2
Under 1 year.....	2.1	2.2	2.0	2.1	2.1	2.0	4.0	4.1	3.8	0.1	0.1	0.1	2.0	2.0	2.0
5 to 9 years.....	8.8	9.0	8.5	8.6	8.9	8.3	15.0	15.4	14.5	2.1	2.1	2.1	7.6	7.8	7.4
10 to 14 years.....	8.5	8.6	8.3	8.5	8.7	8.2	13.6	14.0	13.3	2.8	2.8	2.8	7.6	7.4	7.8
15 to 19 years.....	8.8	8.8	8.8	8.3	8.5	8.2	11.9	12.0	11.7	6.0	5.7	6.2	7.5	7.1	8.0
20 to 44 years.....	42.2	42.2	42.1	36.0	36.1	35.9	32.5	31.2	33.7	59.1	60.1	58.1	49.9	50.5	49.3
45 years and over.....	21.9	21.2	22.6	28.7	27.4	29.9	9.2	8.9	9.5	29.2	28.3	30.0	18.0	18.0	18.1
18 to 44 years.....	45.9	45.9	45.8	39.4	39.5	39.2	36.9	35.7	38.1	62.4	63.3	61.5	53.2	53.6	52.7
21 years and over.....	62.3	61.7	62.8	63.2	62.1	64.2	39.7	38.2	41.1	86.2	86.5	85.8	60.3	67.2	65.5
URBAN POPULATION.															
All ages: 1920.....	3,650,248	1,788,597	1,861,651	1,116,638	544,430	572,208	1,441,872	702,750	739,122	1,045,106	516,909	528,197	43,624	21,908	21,716
Under 5 years.....	367,497	185,249	182,248	131,109	66,387	64,812	220,337	115,300	113,977	2,746	1,397	1,349	4,086	2,034	2,052
Under 1 year.....	71,535	35,730	35,805	25,900	12,978	12,922	44,385	22,143	22,242	294	133	161	923	458	465
5 to 9 years.....	341,289	171,092	170,177	108,826	54,769	54,057	218,158	109,139	109,019	10,809	5,443	5,366	3,371	1,694	1,677
10 to 14 years.....	315,061	157,546	157,515	97,587	48,977	48,610	191,142	95,621	95,621	23,135	11,401	11,734	3,128	1,510	1,613
15 to 19 years.....	280,656	139,845	140,811	86,181	42,974	43,907	158,304	77,721	80,643	38,910	18,302	20,608	3,064	1,449	1,615
20 to 44 years.....	1,473,077	717,334	755,743	399,913	194,618	205,295	472,491	223,904	248,587	877,933	286,725	291,208	21,206	10,721	10,485
45 years and over.....	863,671	415,687	447,984	291,097	136,228	154,869	172,038	80,839	91,199	300,871	193,231	197,040	8,635	4,413	4,222
Age unknown.....	3,017	1,844	1,173	1,835	1,177	658	342	166	176	702	410	292	134	87	47
Per cent: 1920.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	10.1	10.4	9.8	11.7	12.2	11.3	15.9	16.4	15.4	0.3	0.3	0.3	9.4	9.3	9.4
Under 1 year.....	9.3	9.6	9.1	9.7	10.1	9.4	15.1	15.5	14.7	1.0	1.1	1.0	7.7	7.7	7.7
5 to 9 years.....	8.6	8.8	8.5	8.7	9.0	8.5	13.3	13.6	12.9	2.2	2.2	2.2	7.2	6.9	7.6
10 to 14 years.....	8.6	8.8	8.5	8.7	9.0	8.5	13.3	13.6	12.9	2.2	2.2	2.2	7.2	6.9	7.6
15 to 19 years.....	7.9	7.8	7.9	7.7	7.8	7.7	11.0	11.1	10.9	3.7	3.5	3.9	7.0	6.6	7.4
20 to 44 years.....	40.4	40.1	40.6	35.8	35.7	35.9	32.8	31.9	33.6	55.3	55.5	55.1	48.6	48.9	48.3
45 years and over.....	23.7	23.2	24.1	26.1	25.0	27.1	11.9	11.5	12.8	37.4	37.4	37.4	19.8	20.1	19.4
Per cent: 1910.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	9.8	10.1	9.6	10.0	10.5	9.6	17.9	18.5	17.3	0.8	0.8	0.8	8.8	8.7	8.9
Under 1 year.....	8.8	9.0	8.5	8.7	9.0	8.3	15.0	15.5	14.5	2.1	2.1	2.1	7.4	7.6	7.2
5 to 9 years.....	8.5	8.6	8.3	8.5	8.7	8.2	13.6	13.9	13.3	2.8	2.8	2.8	7.5	7.3	7.7
10 to 14 years.....	8.9	8.8	8.9	8.4	8.5	8.3	11.9	12.0	11.8	6.0	5.7	6.2	7.5	7.0	7.9
15 to 19 years.....	42.7	42.7	42.6	36.7	36.9	36.5	32.5	31.3	33.8	59.2	60.2	58.2	50.5	50.9	50.1
20 to 44 years.....	42.7	42.7	42.6	36.7	36.9	36.5	32.5	31.3	33.8	59.2	60.2	58.2	50.5	50.9	50.1
45 years and over.....	21.3	20.5	22.0	27.6	26.2	28.9	9.0	8.7	9.3	29.0	28.2	29.8	18.1	18.3	18.0
RURAL POPULATION.															
All ages: 1920.....	202,108	101,417	100,691	114,135	57,095	57,040	53,345	26,723	26,622	32,428	16,410	16,018	1,842	1,004	838
Under 5 years.....	18,264	9,287	8,977	10,276	5,187	5,089	7,648	3,931	3,717	78	39	39	222	111	111
Under 1 year.....	3,356	1,671	1,685	1,940	943	997	1,362	704	658	5	2	3	42	17	25
5 to 9 years.....	18,557	9,482	9,075	10,001	5,158	4,843	8,011	4,059	3,952	329	168	161	184	84	100
10 to 14 years.....	18,477	9,570	8,907	10,210	5,384	4,826	7,397	3,729	3,668	662	347	315	174	96	78
15 to 19 years.....	15,475	7,897	7,578	8,420	4,362	4,058	5,951	2,987	2,964	948	474	474	125	59	66
20 to 44 years.....	65,639	32,483	33,156	33,706	16,658	17,108	16,497	7,658	7,839	15,547	7,696	7,851	704	400	304
45 years and over.....	65,581	32,632	32,949	41,392	20,306	21,085	8,225	4,350	4,475	14,846	7,674	7,172	422	249	173
Age unknown.....	115	66	49	70	40	30	16	9	7	18	12				



## POPULATION—MASSACHUSETTS.

TABLE 4.—ILLITERACY, FOR THE STATE AND URBAN AND RURAL POPULATION: 1920 AND 1910.

AGE PERIOD.	ALL CLASSES.			NATIVE WHITE.						FOREIGN-BORN WHITE.			NEGRO.		
				Native parentage.			Foreign or mixed parentage.								
	Total number.	Illiterate.		Total number.	Illiterate.		Total number.	Illiterate.		Total number.	Illiterate.		Total number.	Illiterate.	
		Num-ber.	Per cent.		Num-ber.	Per cent.		Num-ber.	Per cent.		Num-ber.	Per cent.		Num-ber.	Per cent.
THE STATE: 1920															
10 years and over.....	3,106,769	146,607	4.7	970,471	2,926	0.3	1,032,063	4,854	0.5	1,063,572	135,720	12.8	37,603	2,565	6.8
Male.....	1,514,904	68,423	4.5	470,024	1,745	0.4	496,984	2,381	0.5	526,272	62,505	11.9	18,989	1,300	6.8
Female.....	1,591,865	78,184	4.9	500,447	1,181	0.2	535,079	2,473	0.5	537,300	73,215	13.6	18,614	1,265	6.8
10 to 15 years.....	394,026	977	0.2	127,038	221	0.2	232,962	482	0.2	30,029	255	0.8	3,867	19	0.5
Male.....	197,205	537	0.3	63,916	129	0.2	116,535	205	0.2	14,809	129	0.9	1,875	14	0.7
Female.....	196,821	440	0.2	63,122	92	0.1	116,427	217	0.2	15,220	126	0.8	1,992	5	0.3
16 to 20 years.....	301,236	2,880	1.0	93,672	236	0.3	159,421	442	0.3	44,630	2,135	4.8	3,324	55	1.7
Male.....	145,340	1,157	0.8	46,864	156	0.3	77,431	243	0.3	20,356	714	3.5	1,564	33	2.1
Female.....	155,896	1,723	1.1	47,808	80	0.2	81,990	199	0.2	24,274	1,421	5.9	1,760	22	1.3
21 years and over.....	2,411,507	142,750	5.9	749,761	2,469	0.3	639,680	3,930	0.6	988,913	133,330	13.5	30,412	2,491	8.2
Male.....	1,172,359	66,729	5.7	380,244	1,460	0.4	303,018	1,873	0.6	491,107	61,662	12.6	15,550	1,253	8.1
Female.....	1,239,148	76,021	6.1	369,517	1,009	0.3	336,662	2,057	0.6	497,806	71,668	14.4	14,862	1,238	8.3
URBAN POPULATION.															
10 years and over.....	2,941,482	141,584	4.8	876,613	2,489	0.3	994,377	4,556	0.5	1,031,551	131,672	12.8	36,167	2,328	6.4
Male.....	1,432,256	65,763	4.6	428,274	1,460	0.3	478,251	2,206	0.5	510,069	60,449	11.9	18,180	1,169	6.4
Female.....	1,509,226	75,821	5.0	458,339	1,029	0.2	516,126	2,350	0.5	521,482	71,223	13.7	17,987	1,159	6.4
10 to 15 years.....	372,263	918	0.2	115,011	189	0.2	224,295	462	0.2	29,197	248	0.8	3,670	19	0.5
Male.....	286,451	2,796	1.0	85,626	210	0.2	153,843	431	0.3	43,632	2,091	4.8	3,195	52	1.6
Female.....	2,232,708	137,870	6.0	675,976	2,090	0.3	616,239	3,663	0.6	958,722	129,333	13.5	29,302	2,267	7.7
RURAL POPULATION.															
10 years and over.....	165,287	5,023	3.0	93,858	437	0.5	37,686	298	0.8	32,021	4,048	12.6	1,436	237	16.5
Male.....	82,648	2,660	3.2	46,760	205	0.6	18,733	175	0.9	16,203	2,056	12.7	809	131	16.2
Female.....	82,639	2,363	2.9	47,108	142	0.3	18,953	123	0.6	15,818	1,992	12.6	627	106	16.9
10 to 15 years.....	21,763	59	0.3	12,027	32	0.3	8,667	20	0.2	832	7	0.8	197	-----	-----
Male.....	14,785	84	0.6	8,040	26	0.3	5,578	11	0.2	988	44	4.4	129	3	2.3
Female.....	128,739	4,880	3.8	73,785	379	0.5	23,441	267	1.1	30,191	3,997	13.2	1,110	234	21.1
THE STATE: 1910															
10 years and over.....	2,742,684	141,541	5.2	900,749	3,428	0.4	788,386	5,735	0.7	1,020,594	129,412	12.7	31,718	2,584	8.1
Male.....	1,340,517	67,647	5.0	435,354	1,944	0.4	377,731	2,647	0.7	508,878	61,402	12.1	15,629	1,286	8.2
Female.....	1,402,167	73,894	5.3	465,395	1,484	0.3	408,655	3,088	0.8	511,716	68,010	13.3	16,089	1,298	8.1
10 to 15 years.....	340,032	1,167	0.3	111,579	166	0.1	188,573	309	0.2	36,343	674	1.9	3,416	15	0.4
Male.....	169,990	572	0.3	56,018	93	0.2	94,185	160	0.2	18,070	305	1.7	1,643	11	0.7
Female.....	170,042	595	0.3	55,561	73	0.1	94,388	149	0.2	18,273	369	2.0	1,773	4	0.2
16 to 20 years.....	306,498	10,966	3.6	91,789	244	0.3	132,790	568	0.4	78,622	10,005	12.7	3,063	131	4.3
Male.....	148,358	5,166	3.5	44,990	151	0.3	65,062	315	0.5	37,207	4,593	12.3	1,395	89	6.4
Female.....	157,640	5,800	3.7	46,799	93	0.2	67,728	253	0.4	41,415	5,412	13.1	1,668	42	2.5
21 years and over.....	2,096,154	129,408	6.2	697,381	3,018	0.4	465,023	4,858	1.0	905,629	118,733	13.1	25,239	2,438	9.7
Male.....	1,021,689	61,909	6.1	334,346	1,700	0.5	213,484	2,172	1.0	433,601	56,504	12.5	12,591	1,186	9.4
Female.....	1,074,465	67,499	6.3	363,035	1,318	0.4	246,539	2,686	1.1	472,028	62,229	13.8	12,648	1,252	9.9
URBAN POPULATION.															
10 years and over.....	2,543,364	133,259	5.2	782,543	2,693	0.3	749,315	5,179	0.7	979,110	122,024	12.6	29,528	2,086	7.1
Male.....	1,239,133	62,805	5.1	376,416	1,483	0.4	359,278	2,331	0.6	486,422	57,668	11.9	14,321	950	6.7
Female.....	1,304,231	70,454	5.4	406,127	1,210	0.3	390,037	2,848	0.7	492,688	65,256	13.2	15,207	1,127	7.4
10 to 15 years.....	315,747	1,082	0.3	97,449	134	0.1	180,000	283	0.2	35,130	650	1.9	3,097	12	0.4
Male.....	286,936	10,387	3.6	81,043	202	0.2	127,242	524	0.4	75,676	9,558	12.6	2,805	85	3.0
Female.....	1,940,681	121,790	6.3	604,051	2,357	0.4	442,073	4,372	1.0	868,304	112,716	13.0	23,626	1,989	8.4
RURAL POPULATION.															
10 years and over.....	199,320	8,282	4.2	118,206	735	0.6	37,071	556	1.5	41,484	6,488	15.6	2,190	498	22.7
Male.....	101,384	4,842	4.8	58,938	461	0.8	18,453	316	1.7	22,456	3,794	16.6	1,308	327	25.0
Female.....	97,936	3,440	3.5	59,268	274	0.5	18,618	240	1.3	19,028	2,754	14.5	882	171	19.4
10 to 15 years.....	24,285	85	0.4	14,130	32	0.2	8,573	26	0.3	1,213	24	2.0	319	3	0.9
Male.....	19,562	579	3.0	10,746	42	0.4	5,548	44	0.8	2,946	447	15.2	258	46	17.8
Female.....	155,473	7,618	4.9	93,330	661	0.7	22,850	486	2.1	37,325	6,017	16.1	1,613	449	27.7



## COMPOSITION AND CHARACTERISTICS.

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TABLE 5.—POPULATION 21 YEARS OF AGE AND OVER, BY SEX, CLASS OF POPULATION, AND CITIZENSHIP, FOR THE STATE: 1920 AND 1910.

CLASS OF POPULATION AND CITIZENSHIP.	POPULATION 21 YEARS OF AGE AND OVER.			PER CENT DISTRIBUTION.			CLASS OF POPULATION AND CITIZENSHIP.	POPULATION 21 YEARS OF AGE AND OVER.			PER CENT DISTRIBUTION.		
	Male.		Female: 1920	Male.		Fe- male: 1920		Male.		Female: 1920	Male.		Fe- male: 1920
	1920	1910		1920	1910			1920	1910		1920	1910	
Total.....	1,172,359	1,021,669	1,239,148	100.0	100.0	100.0	Native white.....	663,262	552,830	726,179	56.6	54.1	58.6
White.....	1,154,369	1,000,431	1,223,985	98.5	98.5	98.8	Native parentage.....	360,244	334,346	359,517	30.7	32.7	31.4
Negro.....	15,550	12,581	14,862	1.3	1.2	1.2	Foreign parentage.....	223,982	166,905	245,883	18.1	16.3	19.8
Indian.....	182	207	170	(1)	(2)	(1)	Mixed parentage.....	79,036	51,579	90,779	6.7	5.0	7.3
Chinese.....	2,070	2,310	102	0.2	0.2	(1)	Foreign-born white.....	491,107	453,601	497,806	41.9	44.4	40.2
Japanese.....	138	124	25	(1)	(1)	(1)	Naturalized.....	213,477	189,128	227,939	18.2	18.5	18.4
All other.....	50	6	4	(1)	(1)	(1)	Having first papers.....	73,725	30,016	5,555	6.2	2.9	0.4
							Alien.....	193,844	212,033	248,607	10.5	20.8	20.1
							Unknown.....	10,001	22,426	15,805	0.9	2.2	1.3

<sup>1</sup> Less than one-tenth of 1 per cent.

TABLE 6.—COUNTRY OF BIRTH OF THE FOREIGN-BORN WHITE, FOR THE STATE AND PRINCIPAL CITIES: 1920.

COUNTRY OF BIRTH.	THE STATE.		BOSTON.		WORCESTER.		COUNTRY OF BIRTH.	THE STATE.		BOSTON.		WORCESTER.	
	Num- ber.	Per cent distrib- ution.	Num- ber.	Per cent distrib- ution.	Num- ber.	Per cent distrib- ution.		Num- ber.	Per cent distrib- ution.	Num- ber.	Per cent distrib- ution.	Num- ber.	Per cent distrib- ution.
All countries.....	1,077,534	100.0	238,919	100.0	53,418	100.0	Greece.....	20,441	1.9	3,054	1.3	720	1.3
Armenia.....	8,640	0.8	1,472	0.6	1,225	2.3	Ireland.....	183,171	17.0	57,011	23.9	9,048	16.9
Atlantic Islands <sup>1</sup> .....	25,230	2.3	294	0.1	10	( <sup>2</sup> )	Italy.....	117,067	10.9	38,179	16.0	4,206	8.0
Austria.....	8,008	0.8	1,530	0.6	189	0.4	Lithuania.....	20,789	1.9	4,127	1.7	4,220	7.9
Belgium.....	2,497	0.2	580	0.2	27	0.1	Netherlands.....	2,071	0.2	691	0.3	69	0.1
Canada—French.....	108,691	10.1	1,743	0.7	4,262	8.0	Newfoundland.....	7,165	0.7	2,767	1.2	53	0.1
Canada—Other.....	153,330	14.2	40,265	16.9	3,833	7.2	Norway.....	5,401	0.5	1,875	0.8	334	0.6
Czechoslovakia.....	2,238	0.2	250	0.1	15	( <sup>3</sup> )	Poland.....	69,157	6.4	7,650	3.2	3,632	6.8
Denmark.....	3,020	0.3	935	0.4	227	0.4	Portugal.....	28,315	2.6	957	0.4	27	0.1
England.....	86,805	8.1	12,408	5.2	3,343	6.3	Russia.....	92,034	8.5	38,021	15.9	4,778	8.9
Finland.....	14,670	1.4	562	0.2	2,175	4.1	Scotland.....	28,474	2.6	5,079	2.1	936	1.8
France.....	7,120	0.7	1,269	0.5	119	0.2	Sweden.....	38,012	3.5	6,780	2.8	7,751	14.5
Germany.....	22,113	2.1	5,915	2.5	467	0.9	Syria.....	7,128	0.7	1,756	0.7	688	1.3
							All other countries.....	15,228	1.4	3,713	1.6	944	1.8

<sup>1</sup> Includes persons born in the Azores, as follows: The state, 21,979; Boston, 199; Worcester, 7.<sup>2</sup> Less than one-tenth of 1 per cent.

TABLE 7.—INDIANS, CHINESE, AND JAPANESE, FOR COUNTIES AND FOR CITIES OF 25,000 OR MORE: 1920, 1910, AND 1900.

COUNTY OR CITY.	INDIAN.			CHINESE.			JAPANESE.			COUNTY OR CITY.	INDIAN.			CHINESE.			JAPANESE.		
	1920	1910	1900	1920	1910	1900	1920	1910	1900		1920	1910	1900	1920	1910	1900	1920	1910	1900
<b>COUNTIES.</b>										<b>CITIES—CON.</b>									
The state.....	555	688	587	2,544	2,582	2,968	191	151	53	Chilcopee.....				8	6	6			
Barnstable.....	224	272	231	5	6	8	7		1	Everett.....	1			13	17	37			
Berkshire.....		1	3	59	54	66	2	2		Fall River.....	10	6		45	76	81	1	1	
Bristol.....	26	40	86	127	100	179	2	1		Fitchburg.....			1	13	13	26	1		
Dukes.....	149	147	164	3		1				Haverhill.....		1		28	31	46			
Essex.....	6	6	3	359	316	320	5	4	3	Holyoke.....				26	20	29			
Franklin.....	1			18	14	17	2	6	2	Lawrence.....				59	56	58			
Hampden.....	15	9	1	190	96	106	1	3	4	Lowell.....		6		79	62	58		1	1
Hampshire.....	2	14	14	12	39	32	5	3	2	Lynn.....	5	4	3	124	113	62			
Middlesex.....	17	31	36	348	379	507	40	34	6	Malden.....				15	20	25		1	
Nantucket.....	4			1		2				Medford.....	1	4		10	11	17	5		
Norfolk.....	10	39	12	91	89	134	39	19	6	New Bedford.....	14	23	76	61	45	48			
Plymouth.....	24	23	10	78	46	91	7	2		Newton.....			8	13	31	48	4	5	2
Suffolk.....	36	56	9	1,118	1,237	1,259	76	69	29	Pittsfield.....				35	36	15			
Worcester.....	41	50	34	146	145	246	7	8		Quincy.....	1	5		37	23	27	3	1	
<b>CITIES.</b>										Revere.....				7	13	16			
Boston.....	34	51	3	1,075	1,192	1,186	76	68	29	Salem.....				70	38	50	1		1
Brockton.....	12	5		48	26	46		1		Somerville.....	1			29	61	68	8	2	
Brookline town.....				11	12	16	23	12	5	Springfield.....	14	7	1	148	55	49		2	2
Cambridge.....	9	13	9	81	83	112	17	19	2	Taunton.....			1	6	7	17			
Chelsea.....	2	5		28	27	50		1		Waltham.....				29	28	25		1	
										Worcester.....	20	10	2	80	65	109	4	6	



## POPULATION—MASSACHUSETTS.

TABLE 8.—AGE, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920.

AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.		AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
CITIES.									CITIES—CON.								
Attleboro.....	9,785	9,946	7,414	7,465	2,308	2,415	52	68	Everett.....	19,793	20,327	13,828	14,070	5,401	5,678	551	578
Under 5 years.....	994	929	974	918	16	10	4	1	Under 5 years.....	2,215	2,182	2,145	2,117	17	8	53	57
Under 1 year.....	190	162	188	160	2	2	—	—	Under 1 year.....	403	426	392	414	2	1	9	11
5 to 9 years.....	990	990	966	957	29	28	5	5	5 to 9 years.....	2,023	2,009	1,919	1,904	59	43	45	62
10 to 14 years.....	912	839	854	764	54	65	4	10	10 to 14 years.....	1,836	1,909	1,667	1,690	115	169	54	50
15 to 19 years.....	783	722	695	647	82	73	6	2	15 to 19 years.....	1,688	1,611	1,451	1,380	184	186	53	45
20 to 44 years.....	3,781	4,142	2,579	2,809	1,181	1,300	14	33	20 to 44 years.....	7,690	8,042	4,655	4,854	2,818	2,950	211	238
45 years and over.....	2,319	2,320	1,350	1,367	946	938	19	15	45 years and over.....	4,335	4,574	1,988	2,125	2,205	2,322	135	126
Age unknown.....	6	4	6	3	—	1	—	—	Age unknown.....	6	—	3	—	3	—	—	—
18 to 44 years.....	4,068	4,417	2,830	3,052	1,214	1,332	17	33	18 to 44 years.....	8,334	8,687	5,189	5,391	2,911	3,038	228	258
21 years and over.....	5,993	6,337	3,842	4,076	2,107	2,214	33	47	21 years and over.....	11,714	12,276	6,377	6,707	4,984	5,214	340	354
Beverly.....	11,157	11,404	8,503	8,665	2,612	2,702	25	35	Fall River.....	57,918	62,567	37,382	40,401	20,334	21,997	152	163
Under 5 years.....	1,078	1,090	1,072	1,078	5	8	1	3	Under 5 years.....	6,788	6,852	6,716	6,782	56	45	16	24
Under 1 year.....	198	204	197	204	—	—	—	—	Under 1 year.....	1,482	1,402	1,472	1,395	5	1	5	6
5 to 9 years.....	1,044	1,040	1,012	1,012	28	28	4	—	5 to 9 years.....	6,076	6,613	6,415	6,350	242	252	19	11
10 to 14 years.....	1,019	987	940	896	77	68	1	2	10 to 14 years.....	6,024	6,100	5,476	5,551	539	544	9	5
15 to 19 years.....	856	844	750	734	104	106	1	4	15 to 19 years.....	5,215	5,820	4,289	4,739	917	1,072	9	9
20 to 44 years.....	4,388	4,505	2,892	2,992	1,506	1,498	13	15	20 to 44 years.....	21,129	23,998	10,805	12,743	10,234	11,180	65	71
45 years and over.....	2,750	2,957	1,859	1,952	887	994	5	11	45 years and over.....	12,073	13,170	3,676	4,229	8,338	8,899	34	41
Age unknown.....	13	1	8	1	5	—	—	—	Age unknown.....	13	14	5	7	8	5	—	2
18 to 44 years.....	4,713	4,843	3,152	3,288	1,540	1,540	14	15	18 to 44 years.....	23,088	26,339	12,332	14,543	10,643	11,718	68	74
21 years and over.....	7,001	7,296	4,587	4,800	2,381	2,470	18	26	21 years and over.....	32,289	36,056	13,763	16,170	18,377	19,768	99	113
Boston.....	368,756	379,304	241,633	249,933	117,770	121,149	8,295	8,055	Fitchburg.....	20,182	20,887	13,470	14,346	6,655	6,507	18	14
Under 5 years.....	35,817	35,029	34,936	34,101	255	281	592	620	Under 5 years.....	2,240	2,260	2,207	2,229	32	31	1	—
Under 1 year.....	6,895	6,932	6,723	6,744	33	48	129	133	Under 1 year.....	400	419	400	416	—	3	—	—
5 to 9 years.....	32,900	32,775	31,323	31,252	1,042	1,021	502	474	5 to 9 years.....	2,016	2,060	1,915	1,960	99	100	2	—
10 to 14 years.....	30,770	30,578	28,057	27,787	2,264	2,321	430	454	10 to 14 years.....	1,828	1,917	1,660	1,709	168	208	—	—
15 to 19 years.....	27,839	29,323	23,390	24,479	3,980	4,317	431	511	15 to 19 years.....	1,643	1,777	1,401	1,488	240	288	—	—
20 to 44 years.....	156,336	161,297	85,098	89,780	66,107	67,061	4,500	4,384	20 to 44 years.....	8,155	8,364	4,290	4,659	3,844	3,701	9	4
45 years and over.....	84,007	89,783	37,982	42,150	43,865	46,047	1,768	1,578	45 years and over.....	4,270	4,475	1,991	2,290	2,208	2,176	6	9
Age unknown.....	1,087	619	847	354	167	101	72	34	Age unknown.....	10	14	6	11	4	3	—	—
18 to 44 years.....	167,026	173,547	94,437	99,662	67,933	69,176	4,698	4,628	18 to 44 years.....	8,771	9,080	4,803	5,248	3,946	3,828	9	4
21 years and over.....	235,790	245,150	119,427	127,389	109,209	111,827	6,227	5,859	21 years and over.....	12,125	12,512	6,040	6,097	6,054	5,802	15	13
Brockton.....	32,809	33,445	23,693	24,818	8,795	8,329	274	285	Gloucester.....	11,445	11,502	8,433	8,608	2,993	2,890	2	4
Under 5 years.....	3,075	3,027	3,036	2,983	22	15	17	29	Under 5 years.....	1,065	1,000	1,053	990	11	9	1	1
Under 1 year.....	604	570	599	562	4	1	1	7	Under 1 year.....	213	192	213	190	—	—	—	—
5 to 9 years.....	2,983	2,851	2,863	2,761	90	80	30	18	5 to 9 years.....	1,087	1,046	1,051	1,020	36	26	—	—
10 to 14 years.....	2,728	2,713	2,544	2,509	162	171	22	33	10 to 14 years.....	999	1,031	950	970	49	61	—	—
15 to 19 years.....	2,359	2,544	2,070	2,205	257	307	30	31	15 to 19 years.....	948	991	885	895	63	93	—	—
20 to 44 years.....	13,597	14,094	8,280	9,171	5,173	4,795	122	123	20 to 44 years.....	4,000	4,150	2,675	2,801	1,816	1,289	1	—
45 years and over.....	8,053	8,203	4,895	5,196	3,082	2,951	53	51	45 years and over.....	3,346	3,284	1,819	1,869	1,518	1,412	—	3
Age unknown.....	14	13	5	3	9	10	—	—	Age unknown.....	—	—	—	—	—	—	—	—
18 to 44 years.....	14,545	15,112	9,098	10,026	5,292	4,944	132	137	18 to 44 years.....	4,329	4,557	2,977	3,220	1,843	1,337	1	—
21 years and over.....	21,170	21,746	12,760	13,918	8,194	7,651	171	168	21 years and over.....	7,194	7,227	4,357	4,652	2,819	2,672	—	3
Cambridge.....	52,428	57,266	34,581	37,565	15,219	16,885	2,535	2,799	Haverhill.....	26,490	27,394	19,461	20,727	6,829	6,478	174	187
Under 5 years.....	5,389	5,284	5,035	4,994	60	43	289	246	Under 5 years.....	2,602	2,437	2,577	2,410	16	13	9	14
Under 1 year.....	1,129	1,174	1,041	1,110	5	6	6	58	Under 1 year.....	493	461	490	457	2	1	1	3
5 to 9 years.....	4,884	4,808	4,450	4,371	179	198	248	237	5 to 9 years.....	2,304	2,200	2,227	2,137	50	54	18	9
10 to 14 years.....	4,045	4,085	4,098	4,107	326	361	223	227	10 to 14 years.....	2,216	2,168	2,064	2,031	140	120	12	17
15 to 19 years.....	4,287	4,528	3,589	3,695	526	606	169	225	15 to 19 years.....	1,936	2,159	1,762	1,816	223	256	10	15
20 to 44 years.....	21,487	23,824	12,061	13,349	8,237	9,134	1,105	1,331	20 to 44 years.....	10,025	11,308	6,734	7,550	4,096	3,676	79	108
45 years and over.....	11,718	14,112	5,307	7,041	5,888	6,636	496	533	45 years and over.....	6,420	7,065	4,082	4,660	2,283	2,364	46	51
Age unknown.....	18	15	10	8	3	7	5	—	Age unknown.....	27	29	15	23	12	5	—	1
18 to 44 years.....	23,227	25,723	13,528	14,859	8,466	9,435	1,178	1,419	18 to 44 years.....	11,702	12,203	7,401	8,321	4,203	3,796	82	85
21 years and over.....	32,391	36,992	16,740	19,670	14,000	15,490	1,572	1,821	21 years and over.....	16,982	17,943	10,499	11,858	6,314	5,958	124	127
Chelsea.....	22,364	20,820	13,040	12,538	9,101	8,097	196	177	Holyoke.....	28,901	31,302	19,171	20,605	9,622	10,633	83	63
Under 5 years.....	2,633	2,555	2,502	2,515	10	18	19	21	Under 5 years.....	3,073	3,142	3,029	3,097	35	38	7	7
Under 1 year.....	479	542	476	534	1	2	2	6	Under 1 year.....	611	623	608	618	4	3	1	2
5 to 9 years.....	2,449	2,398	2,339	2,285	94	96	13	13	5 to 9 years.....	2,945	2,877	2,834	2,784	104	105	7	7
10 to 14 years.....	2,127	2,110	1,828	1,795	286	297	18	18	10 to 14 years.....	2,724	2,769	2,509	2,515	210	252	3	2
15 to 19 years.....	1,920	1,816	1,353	1,223	555	679	21	14	15 to 19 years.....	2,487	2,819	2,189	2,806	292	421	5	2
20 to 44 years.....	8,831	8,269	3,362	3,3													



## COMPOSITION AND CHARACTERISTICS.

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TABLE 8.—AGE, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920—Continued.

AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.		AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
CITIES—con.									CITIES—con.								
Leominster.....	9,692	10,052	7,091	7,565	2,542	2,442	50	45	Methuen.....	7,296	7,893	4,804	5,122	2,462	2,741	28	30
Under 5 years.....	1,045	1,022	1,017	1,001	21	21	7	7	Under 5 years.....	762	719	754	711	4	4	4	4
Under 1 year.....	192	214	187	212	2	2	3	3	Under 1 year.....	129	148	129	148	21	17	5	3
5 to 9 years.....	905	961	862	912	36	41	7	8	5 to 9 years.....	784	782	758	762	21	17	5	3
10 to 14 years.....	854	875	760	797	88	77	6	1	10 to 14 years.....	748	765	675	698	69	60	4	7
15 to 19 years.....	769	834	638	709	120	123	5	2	15 to 19 years.....	606	646	505	528	101	114	4	4
20 to 44 years.....	3,629	3,761	2,307	2,492	1,298	1,247	17	22	20 to 44 years.....	2,674	3,057	1,469	1,681	1,192	1,866	13	10
45 years and over.....	2,480	2,592	1,505	1,649	971	931	8	12	45 years and over.....	1,719	1,922	641	740	1,074	1,180	2	2
Age unknown.....	4	7	2	5	2	2			Age unknown.....	3	2	2	2	1	1		
18 to 44 years.....	3,920	4,106	2,539	2,773	1,354	1,309	20	24	18 to 44 years.....	2,909	3,330	1,666	1,896	1,230	1,422	13	12
21 years and over.....	5,967	6,189	3,500	4,013	2,233	2,143	25	33	21 years and over.....	4,274	4,852	2,014	2,318	2,243	2,522	15	12
Lowell.....	54,271	58,488	35,632	38,837	18,466	19,574	100	70	New Bedford.....	59,388	61,829	32,701	34,752	23,864	24,825	2,756	2,242
Under 5 years.....	5,784	5,982	5,715	5,923	59	55	9	3	Under 5 years.....	6,477	6,500	6,010	6,005	105	110	362	385
Under 1 year.....	1,253	1,289	1,246	1,260	5	9	2		Under 1 year.....	1,312	1,380	1,218	1,270	6	12	88	98
5 to 9 years.....	5,157	5,327	4,976	5,116	174	203	7	7	5 to 9 years.....	5,811	6,088	5,174	5,415	422	416	215	255
10 to 14 years.....	4,747	4,967	4,368	4,590	374	368	5	7	10 to 14 years.....	5,107	5,396	4,200	4,398	744	807	163	190
15 to 19 years.....	4,285	4,880	3,694	4,101	592	775	6	4	15 to 19 years.....	4,883	5,243	3,425	3,567	1,288	1,538	174	145
20 to 44 years.....	21,865	23,965	11,900	13,326	9,883	10,603	48	33	20 to 44 years.....	25,243	25,917	9,852	10,762	13,863	14,232	1,455	923
45 years and over.....	12,399	13,342	4,972	5,762	7,368	7,564	25	16	45 years and over.....	11,855	12,674	4,003	4,612	7,443	7,714	383	344
Age unknown.....	34	25	17	10	16	6			Age unknown.....	12	11	7	3	4	8	1	
18 to 44 years.....	23,593	25,905	13,346	14,887	10,161	10,982	51	33	18 to 44 years.....	27,249	28,137	11,191	12,163	14,474	14,996	1,543	977
21 years and over.....	33,512	36,285	16,252	18,330	17,119	17,904	72	48	21 years and over.....	36,158	37,470	13,315	14,719	20,980	21,506	1,799	1,241
Lynn.....	48,874	50,274	34,565	35,784	13,782	14,076	404	408	Newburyport.....	7,480	8,138	5,873	6,462	1,536	1,609	61	65
Under 5 years.....	4,615	4,470	4,534	4,380	81	41	48	48	Under 5 years.....	691	680	688	682	3	3	2	4
Under 1 year.....	888	865	870	845	4	7	14	13	Under 1 year.....	130	136	130	133				
5 to 9 years.....	4,261	4,276	4,108	4,108	123	119	29	48	5 to 9 years.....	660	681	643	658	8	13	8	10
10 to 14 years.....	3,862	4,041	3,552	3,692	277	321	20	28	10 to 14 years.....	604	635	571	607	26	20	7	8
15 to 19 years.....	3,493	3,675	2,941	3,040	518	594	27	32	15 to 19 years.....	531	635	484	578	45	53	2	4
20 to 44 years.....	20,804	20,908	12,491	12,914	8,056	7,832	180	159	20 to 44 years.....	2,922	2,976	1,931	2,111	904	837	29	27
45 years and over.....	11,822	12,894	6,929	7,634	4,770	5,167	91	02	45 years and over.....	2,068	2,549	1,504	1,855	551	682	13	12
Age unknown.....	17	10	10	7	7	2		1	Age unknown.....	4	2	2	1	2	1		
18 to 44 years.....	22,200	22,435	13,653	14,150	8,277	8,110	191	172	18 to 44 years.....	3,132	3,214	2,171	2,322	924	863	29	28
21 years and over.....	31,922	33,423	18,581	19,953	12,694	12,825	260	243	21 years and over.....	4,888	5,396	3,399	3,869	1,442	1,498	39	38
Malden.....	23,302	25,801	16,442	18,010	6,604	7,501	241	290	Newton.....	20,807	25,247	16,441	18,855	4,138	6,041	211	350
Under 5 years.....	2,364	2,328	2,324	2,291	13	9	27	28	Under 5 years.....	2,007	1,918	1,972	1,888	10	8	25	22
Under 1 year.....	465	478	458	472	3		4	6	Under 1 year.....	364	337	356	330	1	2	7	5
5 to 9 years.....	2,328	2,400	2,245	2,315	60	55	23	30	5 to 9 years.....	2,055	1,936	1,993	1,868	47	41	15	27
10 to 14 years.....	2,367	2,294	2,107	2,077	173	193	27	24	10 to 14 years.....	1,980	1,973	1,880	1,869	75	84	25	20
15 to 19 years.....	1,906	2,179	1,585	1,796	301	344	20	39	15 to 19 years.....	1,683	1,937	1,566	1,746	98	173	18	38
20 to 44 years.....	8,849	10,149	5,358	6,054	3,407	3,985	81	110	20 to 44 years.....	7,593	10,454	5,466	6,862	2,030	3,405	90	186
45 years and over.....	5,546	6,447	2,823	3,476	2,648	2,912	03	59	45 years and over.....	5,483	6,998	3,600	4,613	1,876	2,328	38	57
Age unknown.....	2	4			2	3			Age unknown.....	6	11	4	9	2	2		
18 to 44 years.....	9,602	11,040	5,963	6,750	3,549	4,165	87	125	18 to 44 years.....	8,212	11,265	6,029	7,550	2,080	3,504	90	210
21 years and over.....	14,033	16,145	7,894	9,180	5,982	6,799	142	160	21 years and over.....	12,796	17,055	8,768	11,152	3,886	5,606	126	236
Marlborough.....	7,378	7,650	5,740	6,123	1,616	1,517	10	8	North Adams.....	10,758	11,524	8,190	8,975	2,522	2,492	41	57
Under 5 years.....	603	732	650	729	3	2	1	1	Under 5 years.....	1,023	1,047	1,014	1,032	9	9		6
Under 1 year.....	127	140	126	140	1				Under 1 year.....	169	159	168	157	1	1		1
5 to 9 years.....	641	655	625	643	14	12	2		5 to 9 years.....	1,012	1,096	989	1,004	20	20	3	3
10 to 14 years.....	655	620	633	593	22	26		1	10 to 14 years.....	1,024	1,100	968	1,025	59	70	2	5
15 to 19 years.....	596	600	552	553	40	42	3	4	15 to 19 years.....	1,050	1,122	950	1,013	97	104	6	5
20 to 44 years.....	2,799	2,960	2,032	2,270	755	689	3		20 to 44 years.....	3,913	4,333	2,757	3,106	1,133	1,116	22	21
45 years and over.....	2,024	2,083	1,239	1,335	782	746	1	2	45 years and over.....	2,719	2,817	1,603	1,637	1,204	1,163	8	17
Age unknown.....									Age unknown.....	8	9	8	8		1		
18 to 44 years.....	3,020	3,201	2,236	2,486	770	710	4	3	18 to 44 years.....	4,320	4,792	3,121	3,607	1,173	1,102	25	23
21 years and over.....	4,724	4,931	3,185	3,506	1,525	1,422	4	2	21 years and over.....	6,478	6,960	4,121	4,670	2,323	2,253	29	37
Medford.....	18,623	20,415	14,376	15,557	3,971	4,583	261	274	Northampton.....	10,220	11,731	7,844	9,085	2,338	2,609	31	36
Under 5 years.....	2,089	2,009	2,043	1,968	11	11	30	30	Under 5 years.....	979	960	974	949	3	9	2	2
Under 1 year.....	392	401	387	397		2	5	2	Under 1 year.....	175	178	173	178	1	1		
5 to 9 years.....	1,829	1,793	1,745	1,698	41	35	43	30	5 to 9 years.....	977	914	967	898	17	15	3	1
10 to 14 years.....	1,585	1,616	1,477	1,504	83	81	25	31	10 to 14 years.....	868	838	820	839	44	48	3	1
15 to 19 years.....	1,450	1,504	1,284	1,337	139	147	27	20	15 to 19 years.....	870	895	829	828	45	65	2	2
20 to 44 years.....	7,571	8,644	5,451	6,158	2,025	2,393	86	92	20 to 44 years.....	3,832	4,669	2,669	3,299	1,146	1,350	10	19
45 years and over.....	4,099	4,876	2,371	2,891	1,672	1,914	50	71	45 years and over.....	2,677	3,345	1,598	2,216	1,073	1,118		



TABLE 8.—AGE, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920—Continued.

AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.		AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
CITIES—CON.									CITIES—CON.								
Pittsfield.....	20,407	21,356	15,879	17,239	4,297	3,914	195	203	Waltham.....	14,626	16,289	10,838	11,901	3,743	4,361	18	25
Under 5 years.....	2,194	2,151	2,177	2,127	6	6	11	18	Under 5 years.....	1,400	1,341	1,302	1,284	8	6	—	1
Under 1 year.....	371	390	369	388	—	—	—	2	Under 1 year.....	254	265	254	264	—	—	—	1
5 to 9 years.....	2,020	1,945	1,942	1,888	65	40	13	17	5 to 9 years.....	1,309	1,304	1,273	1,273	35	31	—	—
10 to 14 years.....	1,692	1,785	1,558	1,633	109	126	25	26	10 to 14 years.....	1,405	1,162	1,298	1,074	100	86	7	—
15 to 19 years.....	1,539	1,763	1,375	1,551	142	194	22	18	15 to 19 years.....	1,289	1,323	1,126	1,145	158	173	4	—
20 to 44 years.....	8,433	8,825	5,920	6,009	2,406	2,121	86	95	20 to 44 years.....	5,728	6,909	3,760	4,532	1,946	2,362	4	15
45 years and over.....	4,496	4,867	2,886	3,416	1,557	1,422	38	29	45 years and over.....	3,490	4,246	1,986	2,540	1,494	1,702	2	4
Age unknown.....	33	20	21	15	12	5	—	—	Age unknown.....	5	4	3	3	2	1	—	—
18 to 44 years.....	8,980	9,557	6,403	7,241	2,465	2,212	91	104	18 to 44 years.....	6,216	7,499	4,186	5,021	2,008	2,460	4	18
21 years and over.....	12,665	13,377	8,569	9,742	3,940	3,515	120	120	21 years and over.....	9,006	10,897	5,571	6,869	3,404	4,009	6	19
Quincy.....									Woburn.....								
Under 5 years.....	24,205	23,671	17,041	17,018	7,115	6,634	15	12	Under 5 years.....	8,272	8,302	6,079	6,271	2,037	1,890	146	140
Under 1 year.....	2,727	2,631	2,699	2,613	25	14	1	1	Under 1 year.....	904	855	884	830	3	4	16	12
5 to 9 years.....	563	478	559	473	3	2	—	—	5 to 9 years.....	178	142	175	136	—	—	3	6
10 to 14 years.....	2,402	2,353	2,310	2,263	91	87	—	—	10 to 14 years.....	850	803	810	772	26	19	14	12
15 to 19 years.....	2,171	2,119	1,993	1,950	175	168	1	1	15 to 19 years.....	773	782	723	727	37	33	13	22
20 to 44 years.....	1,805	1,793	1,567	1,542	245	250	—	—	20 to 44 years.....	691	719	630	674	49	31	12	14
45 years and over.....	10,144	9,852	6,023	6,093	4,099	3,750	8	7	45 years and over.....	3,026	3,099	1,999	2,156	963	885	59	57
Age unknown.....	4,954	4,919	2,457	2,553	2,480	2,365	5	1	Age unknown.....	2,003	2,043	1,013	1,103	959	917	27	23
18 to 44 years.....	10,870	10,566	6,632	6,700	4,223	3,856	8	8	18 to 44 years.....	25	1	20	—	—	1	5	—
21 years and over.....	14,755	14,406	8,192	8,352	6,524	6,044	13	8	21 years and over.....	3,292	3,378	2,239	2,415	985	900	63	62
Revere.....									Worcester.....								
Under 5 years.....	14,437	14,386	9,947	9,974	4,459	4,388	24	24	Under 5 years.....	89,586	90,168	61,024	63,949	27,874	25,544	608	650
Under 1 year.....	1,732	1,623	1,723	1,614	6	5	3	4	Under 1 year.....	9,647	9,492	9,527	9,377	65	57	53	56
5 to 9 years.....	320	330	319	328	—	—	1	1	5 to 9 years.....	1,832	1,873	1,819	1,857	5	5	7	11
10 to 14 years.....	1,724	1,649	1,681	1,613	41	34	2	2	10 to 14 years.....	8,495	8,395	8,214	8,086	235	240	41	64
15 to 19 years.....	1,482	1,511	1,397	1,425	83	84	2	2	15 to 19 years.....	7,470	7,458	6,846	6,838	577	569	46	51
20 to 44 years.....	1,214	1,203	1,057	1,034	154	166	3	3	20 to 44 years.....	6,662	7,026	5,781	6,053	830	900	46	68
45 years and over.....	5,664	5,805	2,987	3,164	2,668	2,632	5	9	45 years and over.....	38,064	37,655	21,270	22,958	16,481	14,420	279	268
Age unknown.....	2,610	2,579	1,091	1,111	1,507	1,464	9	4	Age unknown.....	19,188	20,096	9,339	10,590	9,346	9,346	142	142
18 to 44 years.....	6,144	6,226	3,389	3,503	2,744	2,713	7	10	18 to 44 years.....	60	46	47	33	12	12	1	1
21 years and over.....	8,004	8,168	3,910	4,108	4,134	4,047	13	13	21 years and over.....	55,977	56,181	29,587	32,286	25,911	23,478	413	400
Salem.....									TOWNS.								
Under 5 years.....	20,691	21,838	15,056	16,069	5,522	5,681	57	78	Adams.....	6,298	6,669	4,380	4,627	1,913	2,036	2	6
Under 1 year.....	2,199	2,179	2,171	2,150	16	17	8	8	Under 5 years.....	787	734	784	732	3	2	—	—
5 to 9 years.....	423	470	418	467	2	1	3	1	Under 1 year.....	155	142	154	142	1	—	—	—
10 to 14 years.....	2,019	2,112	1,967	2,043	48	60	4	8	5 to 9 years.....	723	735	709	724	14	11	—	—
15 to 19 years.....	1,966	1,933	1,849	1,809	109	121	6	2	10 to 14 years.....	659	709	632	673	27	34	—	2
20 to 44 years.....	1,713	1,767	1,524	1,504	185	199	3	2	15 to 19 years.....	554	602	501	549	53	52	—	1
45 years and over.....	8,003	8,462	4,824	5,344	3,125	3,083	19	28	20 to 44 years.....	2,278	2,527	1,252	1,387	1,023	1,139	—	1
Age unknown.....	4,778	5,376	2,710	3,152	2,037	2,109	17	25	45 years and over.....	1,293	1,356	501	558	790	706	2	2
18 to 44 years.....	8,693	9,142	5,420	5,944	3,217	3,162	21	28	Age unknown.....	4	6	1	4	3	2	—	—
21 years and over.....	12,502	13,486	7,307	8,198	5,113	5,229	35	52	18 to 44 years.....	2,488	2,752	1,438	1,587	1,047	1,164	—	1
Somerville.....									Amesbury.....								
Under 5 years.....	44,350	48,741	32,658	35,885	11,506	12,676	153	175	Under 5 years.....	5,029	5,007	3,904	3,955	1,114	1,044	9	8
Under 1 year.....	4,550	4,534	4,498	4,474	38	42	14	18	Under 1 year.....	484	458	473	453	1	4	—	1
5 to 9 years.....	882	957	873	950	7	3	2	4	5 to 9 years.....	89	109	89	109	—	—	—	—
10 to 14 years.....	3,897	4,115	3,755	3,957	122	145	19	12	10 to 14 years.....	397	454	388	439	10	15	—	—
15 to 19 years.....	3,698	3,847	3,476	3,591	211	236	11	18	15 to 19 years.....	424	382	407	346	17	34	—	2
20 to 44 years.....	3,330	3,652	3,033	3,316	284	322	13	12	20 to 44 years.....	364	358	327	325	35	28	2	2
45 years and over.....	18,063	20,026	11,906	13,365	6,020	6,583	63	78	45 years and over.....	1,924	1,851	1,386	1,388	535	461	3	2
Age unknown.....	10,810	12,565	5,928	7,180	4,831	5,348	33	37	Age unknown.....	1,433	1,500	923	909	505	500	3	1
18 to 44 years.....	10,393	11,488	13,170	14,655	6,139	6,749	70	84	18 to 44 years.....	3	4	2	2	1	2	—	—
21 years and over.....	28,204	31,787	17,303	19,849	10,776	11,828	94	110	21 years and over.....	3,486	3,768	1,677	1,853	1,804	1,912	2	3
Springfield.....									Arlington.....								
Under 5 years.....	63,722	65,892	46,359	49,190	15,873	15,377	1,339	1,311	Under 5 years.....	8,653	10,012	6,768	7,759	1,875	2,222	10	31
Under 1 year.....	6,480	6,400	6,353	6,281	35	27	87	90	Under 1 year.....	837	878	824	873	10	4	3	1
5 to 9 years.....	1,300	1,301	1,274	1,278	—	—	25	20	5 to 9 years.....	156	131	153	131	2	—	1	—
10 to 14 years.....	5,609	5,445	5,349	5,178	157	174	103	91	10 to 14 years.....	800	802	787	798	12	3	1	1
15 to 19 years.....	4,910	5,020	4,462	4,588	344	339	103	95	15 to 19 years.....	774	813	752	770	21	41	1	2
20 to 44 years.....	4,528	4,868	3,890	4,165	542	609	91	92	20 to 44 years.....	800	802	787	798	12	3	1	1
45 years and over.....	28,744	29,193	18,108	19,422	9,845	9,061	706	705	45 years and over.....	664	745	615	668	49	53	—	4
Age unknown.....	13,417	14,932	8,172	9,536	4,941	5,157	249	236	Age unknown.....	3,382	4,121	2,553	2,996	826	1,110	3	15
18 to 44 years.....	30,614	31,191	19,694	21,084	10,096	9,354	736	746	18 to 44 years.....	2,195	2,653	1,236	1,634	957	1,011	2	8
21 years and over.....	41,301	43,094	25,553	28,126	14,074	14,050	936	910	21 years and over.....	1	—	1	—	—	—	—	—
Taunton.....									Belmont.....								
Under 5 years.....	18,109	19,028	13,001	13,788	4,879	5,119	224										



## COMPOSITION AND CHARACTERISTICS.

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TABLE 8.—AGE, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920—Continued.

AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.		AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
TOWNS—con.									TOWNS—con.								
Braintree.....	5,179	5,401	4,043	4,248	1,130	1,146	4	5	Gardner.....	8,828	8,143	5,679	5,706	3,134	2,422	12	13
Under 5 years.....	558	562	551	557	6	5	1	1	Under 5 years.....	906	902	899	894	7	7	1	1
Under 1 year.....	93	111	92	110	1	1	1	1	Under 1 year.....	182	175	180	174	2	1	1	1
5 to 9 years.....	557	528	546	510	10	16	1	1	5 to 9 years.....	912	946	874	906	38	40	4	4
10 to 14 years.....	462	508	437	480	25	28	1	1	10 to 14 years.....	800	753	722	695	78	58	3	3
15 to 19 years.....	422	395	380	349	41	45	1	1	15 to 19 years.....	598	616	493	518	105	98	5	5
20 to 44 years.....	1,935	2,093	1,812	1,476	621	614	1	2	20 to 44 years.....	3,641	3,173	1,682	1,666	1,950	1,498	8	7
45 years and over.....	1,245	1,315	817	876	427	433	1	1	45 years and over.....	1,908	1,753	1,009	1,027	953	721	4	5
Age unknown.....									Age unknown.....	3				3			
18 to 44 years.....	2,090	2,250	1,449	1,616	639	630	1	3	18 to 44 years.....	3,859	3,403	1,840	1,857	2,004	1,537	8	7
21 years and over.....	3,114	3,326	2,074	2,276	1,037	1,046	2	3	21 years and over.....	5,510	4,820	2,613	2,600	2,882	2,197	12	12
Brookline.....	15,148	22,600	12,122	15,878	2,929	6,431	65	284	Greenfield.....	7,904	7,558	6,465	6,348	1,380	1,175	48	35
Under 5 years.....	1,206	1,298	1,194	1,285	8	7	2	4	Under 5 years.....	844	756	834	746	3	5	7	5
Under 1 year.....	216	235	215	234	1	1	1	1	Under 1 year.....	181	122	130	120	10	13	1	2
5 to 9 years.....	1,142	1,170	1,123	1,145	16	22	3	2	5 to 9 years.....	684	703	671	688	10	13	3	4
10 to 14 years.....	1,118	1,224	1,086	1,185	32	36	2	2	10 to 14 years.....	538	580	504	557	14	20	5	8
15 to 19 years.....	1,102	1,315	1,034	1,182	63	118	4	15	15 to 19 years.....	506	594	541	566	23	28	2	2
20 to 44 years.....	5,990	10,525	4,588	6,215	1,336	4,111	41	196	20 to 44 years.....	3,384	3,188	2,479	2,465	877	708	20	15
45 years and over.....	4,581	7,036	3,089	4,840	1,473	2,134	15	62	45 years and over.....	1,833	1,727	1,371	1,322	448	399	11	6
Age unknown.....	9	32	8	26	1	3	3	3	Age unknown.....	10	10	5	6	5	4		
18 to 44 years.....	6,449	11,122	5,017	6,712	1,365	4,200	42	207	18 to 44 years.....	3,620	3,450	2,705	2,712	880	722	21	16
21 years and over.....	10,351	17,261	7,467	10,816	2,799	6,186	56	256	21 years and over.....	5,098	4,812	3,735	3,687	1,322	1,104	30	21
Clinton.....	6,254	6,725	4,265	4,597	1,985	2,126	2	2	Milford.....	6,731	6,740	4,730	4,973	1,998	1,765	1	2
Under 5 years.....	717	739	711	737	6	2	1	1	Under 5 years.....	769	771	764	765	5	6	1	1
Under 1 year.....	128	140	127	146	1	1	1	1	Under 1 year.....	127	144	127	141	3	3	1	1
5 to 9 years.....	594	617	584	603	10	14	1	1	5 to 9 years.....	748	686	721	682	27	13	1	1
10 to 14 years.....	602	602	574	575	28	27	1	1	10 to 14 years.....	686	703	632	655	54	48	1	1
15 to 19 years.....	548	545	498	497	49	47	1	1	15 to 19 years.....	569	631	495	527	74	104	1	1
20 to 44 years.....	2,326	2,537	1,309	1,479	1,015	1,108	1	1	20 to 44 years.....	2,411	2,349	1,264	1,379	1,156	969	1	1
45 years and over.....	1,467	1,535	589	706	877	928	1	1	45 years and over.....	1,547	1,690	863	965	632	624	1	1
Age unknown.....									Age unknown.....	1	1	1	1	1	1	1	1
18 to 44 years.....	2,555	2,790	1,513	1,661	1,039	1,129	1	1	18 to 44 years.....	2,623	2,601	1,433	1,579	1,189	1,021	1	1
21 years and over.....	3,695	4,115	1,816	2,096	1,876	2,018	1	1	21 years and over.....	3,863	3,828	2,045	2,203	1,815	1,560	1	2
Danvers.....	5,445	5,663	4,408	4,511	1,031	1,147	4	5	Natick.....	5,240	5,667	4,218	4,589	1,011	1,067	8	11
Under 5 years.....	479	431	478	430	1	1	1	1	Under 5 years.....	507	493	499	491	6	1	3	1
Under 1 year.....	87	83	87	82	1	1	1	1	Under 1 year.....	96	98	96	98	15	9	1	1
5 to 9 years.....	409	387	402	381	7	6	1	1	5 to 9 years.....	468	431	451	472	27	18	1	1
10 to 14 years.....	443	410	418	393	25	17	1	1	10 to 14 years.....	415	436	388	417	27	18	1	1
15 to 19 years.....	352	409	332	386	20	23	1	1	15 to 19 years.....	387	437	359	395	28	40	1	1
20 to 44 years.....	2,131	2,205	1,627	1,628	500	573	1	4	20 to 44 years.....	1,969	2,197	1,407	1,676	498	518	2	3
45 years and over.....	1,627	1,815	1,148	1,289	475	525	3	1	45 years and over.....	1,495	1,650	1,053	1,165	438	481	3	4
Age unknown.....	4	6	1	4	3	2	1	1	Age unknown.....	1	3	1	3	1	1	1	1
18 to 44 years.....	2,269	2,366	1,758	1,774	507	588	1	4	18 to 44 years.....	2,122	2,371	1,609	1,831	509	536	2	4
21 years and over.....	3,088	3,951	2,709	2,857	971	1,089	4	5	21 years and over.....	3,385	3,773	2,448	2,778	920	988	5	7
Dedham.....	5,214	5,578	3,857	4,080	1,333	1,474	21	18	Northbridge.....	5,512	4,662	3,420	3,047	2,082	1,614	6	1
Under 5 years.....	574	609	572	605	1	2	1	1	Under 5 years.....	500	552	544	541	15	11	1	1
Under 1 year.....	109	128	108	120	1	1	1	1	Under 1 year.....	101	116	100	116	1	1	1	1
5 to 9 years.....	599	570	584	556	14	12	1	1	5 to 9 years.....	471	453	439	445	32	38	1	1
10 to 14 years.....	530	535	492	498	37	36	1	1	10 to 14 years.....	467	446	413	390	54	56	1	1
15 to 19 years.....	403	427	363	386	40	39	1	2	15 to 19 years.....	469	425	355	326	112	99	2	2
20 to 44 years.....	1,904	2,094	1,215	1,306	673	782	14	5	20 to 44 years.....	2,274	1,781	1,132	937	1,137	843	2	1
45 years and over.....	1,202	1,339	629	726	568	603	5	7	45 years and over.....	1,268	976	635	408	731	567	1	1
Age unknown.....	2	4	2	3			1	1	Age unknown.....	3		2		1			
18 to 44 years.....	2,054	2,252	1,345	1,449	693	790	14	6	18 to 44 years.....	2,447	1,939	1,252	1,048	1,189	890	3	1
21 years and over.....	3,030	3,351	1,780	1,980	1,231	1,374	17	13	21 years and over.....	3,472	2,660	1,611	1,273	1,854	1,386	3	1
Easthampton.....	5,532	5,729	3,790	4,011	1,741	1,718			Norwood.....	6,627	6,000	4,196	4,154	2,418	1,840	9	6
Under 5 years.....	749	703	748	699	1	4			Under 5 years.....	737	731	736	728	1	2	1	1
Under 1 year.....	129	143	129	143					Under 1 year.....	147	141	147	141				
5 to 9 years.....	624	653	613	642	11	11			5 to 9 years.....	715	694	685	672	28	22	2	2
10 to 14 years.....	525	507	500	478	25	29			10 to 14 years.....	566	526	514	480	61	45	1	1
15 to 19 years.....	467	535	406	479	61	56			15 to 19 years.....	432	443	387	395	44	48	1	1
20 to 44 years.....	2,122	2,243	1,045	1,153	1,077	1,090			20 to 44 years.....	2,858	2,493	1,211	1,262	1,613	1,229	1	2
45 years and over.....	1,045	1,081	478	556	566	625			45 years and over.....	1,232	1,090	576	596	649	492	4	2
Age unknown.....		7		4		3			Age unknown.....	27	23	27	21		2		
18 to 44 years.....	2,290	2,463	1,195	1,348	1,095	1,115			18 to 44 years.....	3,012	2,667	1,346	1,415	1,662	1,250	1	2
21 years and over.....	3,078	3,229	1,452	1,635	1,625	1,594			21 years and over.....	4,048	3,509	1,758	1,800	2,281	1,705	4	4
Framingham.....	8,324	8,709	6,183	6,853	2,026	1,975	93	81	Plymouth.....	6,481	6,564	4,379	4,670				



## POPULATION—MASSACHUSETTS.

TABLE 8.—AGE, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920—Continued.

AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.		AGE PERIOD.	ALL CLASSES.		NATIVE WHITE.		FOREIGN-BORN WHITE.		NEGRO.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
TOWNS—con.									TOWNS—con.								
Saugus.....	5,372	5,502	4,181	4,200	1,167	1,283	21	19	West Springfield.....	6,721	6,722	5,182	5,253	1,483	1,397	76	72
Under 5 years.....	594	644	583	643	7	.....	4	1	Under 5 years.....	767	765	755	754	6	3	6	8
Under 1 year.....	112	112	112	112	.....	.....	.....	.....	Under 1 year.....	137	137	130	135	.....	1	1	1
5 to 9 years.....	632	603	617	579	.....	.....	.....	.....	5 to 9 years.....	631	711	662	677	23	27	6	7
10 to 14 years.....	592	541	566	506	24	32	2	3	10 to 14 years.....	644	603	595	556	41	42	8	5
15 to 19 years.....	432	445	421	389	40	54	1	2	15 to 19 years.....	551	475	459	428	58	41	4	6
20 to 44 years.....	1,754	1,989	1,177	1,299	569	665	6	5	20 to 44 years.....	2,664	2,730	1,818	1,915	840	786	36	29
45 years and over.....	1,333	1,299	813	783	512	509	7	7	45 years and over.....	1,372	1,437	843	922	513	498	16	17
Age unknown.....	5	1	4	1	.....	.....	.....	.....	Age unknown.....	2	1	.....	1	2	.....	.....	.....
18 to 44 years.....	1,937	2,138	1,339	1,438	589	693	7	7	18 to 44 years.....	2,903	2,918	1,998	2,078	868	810	37	30
21 years and over.....	3,033	3,202	1,941	2,031	1,076	1,159	13	12	21 years and over.....	3,956	4,063	2,564	2,744	1,341	1,273	51	46
Southbridge.....	7,802	7,043	4,521	5,134	2,267	1,900	9	6	Westfield.....	9,298	9,306	6,903	7,194	2,378	2,165	14	17
Under 5 years.....	811	804	790	790	19	11	1	1	Under 5 years.....	1,193	1,095	1,191	1,094	2	1	.....	.....
Under 1 year.....	170	152	169	150	1	.....	.....	.....	Under 1 year.....	239	217	239	217	.....	.....	.....	.....
5 to 9 years.....	745	667	703	633	39	34	3	.....	5 to 9 years.....	1,070	1,073	1,053	1,051	17	21	.....	1
10 to 14 years.....	610	618	566	569	44	48	.....	1	10 to 14 years.....	889	936	829	884	56	50	4	2
15 to 19 years.....	628	598	530	515	95	83	1	.....	15 to 19 years.....	663	711	580	651	66	53	1	2
20 to 44 years.....	2,950	2,943	1,600	1,932	1,256	1,006	1	4	20 to 44 years.....	3,373	3,391	1,893	1,981	1,476	1,404	3	6
45 years and over.....	1,459	1,408	642	692	813	716	3	.....	45 years and over.....	2,113	2,094	1,348	1,400	757	628	6	6
Age unknown.....	1	5	.....	3	1	2	.....	.....	Age unknown.....	7	6	.....	3	4	.....	.....	.....
18 to 44 years.....	3,199	3,195	1,891	2,146	1,304	1,044	1	4	18 to 44 years.....	3,601	3,606	2,099	2,227	1,498	1,433	3	6
21 years and over.....	4,208	4,213	2,247	2,513	2,043	1,095	4	4	21 years and over.....	5,392	5,376	3,155	3,344	2,226	2,022	8	10
Wakefield.....	6,192	6,883	4,598	5,095	1,585	1,727	9	11	Weymouth.....	7,441	7,618	6,065	6,281	1,354	1,323	17	12
Under 5 years.....	721	695	716	602	5	3	.....	.....	Under 5 years.....	733	715	729	712	3	3	.....	.....
Under 1 year.....	130	133	129	133	1	.....	.....	.....	Under 1 year.....	137	139	137	138	.....	.....	.....	.....
5 to 9 years.....	627	653	609	640	18	13	.....	.....	5 to 9 years.....	686	690	670	673	14	16	2	1
10 to 14 years.....	543	557	502	522	41	33	.....	2	10 to 14 years.....	622	647	583	618	38	28	1	1
15 to 19 years.....	429	552	356	475	71	75	2	2	15 to 19 years.....	552	533	503	498	47	33	2	2
20 to 44 years.....	2,307	2,543	1,505	1,650	798	883	4	4	20 to 44 years.....	2,712	2,836	2,029	2,129	774	700	8	7
45 years and over.....	1,562	1,833	908	1,110	651	720	3	3	45 years and over.....	2,136	2,193	1,551	1,650	578	542	3	1
Age unknown.....	3	.....	2	.....	1	.....	.....	.....	Age unknown.....	2	.....	.....	1	.....	.....	.....	.....
18 to 44 years.....	2,476	2,766	1,641	1,842	830	920	5	4	18 to 44 years.....	2,919	3,051	2,213	2,323	696	720	9	8
21 years and over.....	3,777	4,275	2,332	2,685	1,439	1,583	6	7	21 years and over.....	4,760	4,933	3,501	3,685	1,243	1,240	11	8
Watertown.....	10,539	10,918	7,610	8,016	2,915	2,877	9	25	Winchester.....	4,817	5,668	3,765	4,322	958	1,211	92	135
Under 5 years.....	1,155	1,116	1,141	1,112	12	4	2	.....	Under 5 years.....	512	501	496	482	1	5	15	14
Under 1 year.....	242	220	240	210	1	1	.....	.....	Under 1 year.....	94	108	89	103	.....	.....	4	5
5 to 9 years.....	678	584	637	556	39	27	2	1	5 to 9 years.....	490	471	459	443	19	15	12	13
10 to 14 years.....	902	900	842	842	60	57	.....	1	10 to 14 years.....	439	479	409	447	26	19	4	13
15 to 19 years.....	856	836	771	729	83	105	2	2	15 to 19 years.....	372	416	330	362	28	45	8	9
20 to 44 years.....	4,461	4,582	2,751	2,958	1,704	1,608	3	16	20 to 44 years.....	1,760	2,259	1,265	1,539	456	657	37	63
45 years and over.....	2,186	2,497	1,167	1,416	1,017	1,076	.....	5	45 years and over.....	1,244	1,542	800	1,040	428	470	16	28
Age unknown.....	1	.....	.....	3	.....	.....	.....	.....	Age unknown.....	.....	.....	.....	.....	.....	.....	.....	.....
18 to 44 years.....	4,804	4,920	3,048	3,243	1,748	1,659	5	18	18 to 44 years.....	1,905	2,430	1,398	1,677	464	683	41	70
21 years and over.....	6,500	6,922	3,788	4,243	2,704	2,659	3	20	21 years and over.....	2,958	3,718	2,026	2,513	878	1,121	52	84
Webster.....	6,552	6,708	4,640	4,869	1,901	1,830	8	7	Winthrop.....	7,370	8,085	5,874	6,228	1,445	1,793	45	64
Under 5 years.....	764	792	762	791	2	1	.....	.....	Under 5 years.....	621	625	614	621	2	1	5	3
Under 1 year.....	148	163	148	163	.....	.....	.....	.....	Under 1 year.....	120	115	118	114	.....	.....	2	.....
5 to 9 years.....	772	776	763	769	9	7	.....	.....	5 to 9 years.....	572	576	560	559	7	13	5	4
10 to 14 years.....	738	742	716	711	21	30	1	1	10 to 14 years.....	578	605	554	563	19	32	5	10
15 to 19 years.....	629	658	586	605	41	52	2	1	15 to 19 years.....	606	584	558	522	42	58	6	9
20 to 44 years.....	2,327	2,428	1,320	1,448	1,004	977	2	3	20 to 44 years.....	3,126	3,577	2,386	2,604	719	941	18	32
45 years and over.....	1,321	1,308	493	544	823	762	3	2	45 years and over.....	1,866	2,114	1,201	1,358	656	750	6	6
Age unknown.....	1	2	.....	1	1	1	.....	.....	Age unknown.....	1	4	1	1	.....	.....	.....	.....
18 to 44 years.....	2,549	2,677	1,524	1,671	1,021	1,003	3	3	18 to 44 years.....	3,428	3,818	2,659	2,814	745	968	21	36
21 years and over.....	3,550	3,617	1,731	1,885	1,812	1,727	4	5	21 years and over.....	4,855	5,579	3,458	3,863	1,367	1,678	24	38



## COMPOSITION AND CHARACTERISTICS.

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TABLE 9.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR COUNTIES: 1920.

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

SUBJECT.	THE STATE.	Barnstable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>							
Total population.....	3,852,356	26,670	113,033	359,005	4,372	482,156	49,361
Male.....	1,890,014	13,118	55,588	175,407	2,107	237,707	24,998
Female.....	1,962,342	13,552	57,445	183,598	2,265	244,449	24,363
Native white.....	2,725,990	22,061	89,265	232,681	3,348	341,721	41,093
Male.....	1,330,098	10,865	43,408	113,274	1,612	167,122	20,618
Female.....	1,394,992	11,196	45,707	119,407	1,736	174,599	20,475
Native white—Native parentage.....	1,230,773	16,122	48,872	82,963	2,260	160,481	20,457
Native white—Foreign parentage.....	1,093,258	3,761	28,175	112,616	676	128,791	10,423
Native white—Mixed parentage.....	401,959	2,178	12,218	37,102	412	52,449	4,213
Foreign-born white.....	1,077,534	3,640	22,733	119,946	697	138,006	8,131
Male.....	533,319	1,731	11,503	58,558	335	69,206	4,297
Female.....	544,215	1,909	11,170	61,388	362	68,800	3,834
Negro.....	45,466	740	978	6,221	175	2,059	116
Male.....	22,912	411	473	3,434	80	1,036	67
Female.....	22,554	329	505	2,787	95	1,023	49
Indian, Chinese, Japanese, and all other (see Tables I and 7).....	3,306	229	57	157	152	370	21
Per cent native white.....	70.8	82.7	79.0	64.8	76.6	70.9	83.2
Per cent foreign-born white.....	28.0	13.6	20.1	33.4	15.9	28.6	16.5
Per cent Negro.....	1.2	2.8	0.9	1.7	4.0	0.4	0.2
1910: Total population.....	3,366,416	27,542	105,259	318,673	4,504	436,477	43,600
Native white.....	2,273,876	22,598	79,556	194,471	3,522	295,740	35,670
Foreign-born white.....	1,051,050	3,769	24,497	110,898	642	138,867	7,791
Negro.....	38,055	897	1,149	4,008	193	2,024	119
Per cent native white.....	67.5	82.0	75.6	61.0	78.2	67.8	81.8
Per cent foreign-born white.....	31.2	13.7	23.3	37.0	14.3	31.7	17.0
Per cent Negro.....	1.1	3.3	1.1	1.3	4.3	0.5	0.3
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>							
Total under 7 years of age.....	533,037	3,223	15,765	53,893	515	65,233	7,222
Total 7 to 13 years, inclusive.....	483,702	3,341	14,763	49,559	527	59,777	6,410
Number attending school.....	464,752	3,182	13,997	48,108	498	57,490	6,148
Per cent attending school.....	96.1	95.2	94.8	97.1	94.5	96.2	95.9
Total 14 and 15 years.....	122,214	861	3,897	12,202	148	15,007	1,593
Number attending school.....	90,290	712	2,667	6,318	114	10,797	1,183
Per cent attending school.....	73.9	83.7	68.4	51.8	77.0	71.0	75.7
Total 16 and 17 years.....	121,257	773	3,054	12,189	126	14,845	1,516
Number attending school.....	40,260	414	1,348	2,979	59	5,784	698
Per cent attending school.....	40.6	53.0	34.1	24.4	46.8	39.0	46.0
Total 18 to 20 years, inclusive.....	179,979	1,053	5,318	17,775	101	21,852	2,129
Number attending school.....	28,822	247	723	2,612	33	3,251	350
Per cent attending school.....	16.0	23.5	13.6	11.3	20.5	14.9	16.4
Males 21 years of age and over.....	1,172,359	8,433	33,905	103,426	1,371	149,746	15,876
Native white—Native parentage.....	380,244	5,394	13,633	22,620	762	48,490	5,248
Native white—Foreign or mixed parentage.....	303,018	1,150	9,226	25,753	137	36,630	2,694
Foreign-born white.....	491,107	1,577	10,702	52,381	315	63,611	4,077
Naturalized.....	213,477	583	4,642	19,730	147	27,622	1,354
First papers.....	73,725	186	1,273	5,284	24	8,806	499
Alien.....	193,844	781	4,206	20,559	126	26,774	1,693
Unknown.....	10,061	27	681	802	18	409	261
Negro.....	15,550	230	291	2,234	51	707	41
Indian, Chinese, Japanese, and all other.....	2,440	67	53	138	56	308	16
Females 21 years of age and over.....	1,230,148	8,990	35,431	109,991	1,524	155,691	15,145
Native white—Native parentage.....	380,517	5,777	14,408	24,869	870	52,188	5,599
Native white—Foreign or mixed parentage.....	330,062	1,237	10,513	29,043	213	40,293	3,104
Foreign-born white.....	497,806	1,757	10,190	54,470	337	62,608	3,611
Naturalized.....	237,939	884	4,883	20,970	170	30,441	1,672
First papers.....	5,555	20	55	410	1	540	24
Alien.....	248,507	816	4,561	31,780	120	30,018	1,601
Unknown.....	15,805	37	691	1,810	49	709	214
Negro.....	14,862	167	317	1,595	56	651	29
Indian, Chinese, Japanese, and all other.....	301	58	3	9	42	11	2
Males 18 to 44 years, inclusive.....	807,838	4,410	22,372	73,102	688	101,518	9,732
Females 18 to 44 years, inclusive.....	881,264	4,631	23,941	78,348	783	104,402	9,610
<b>ILLITERACY.</b>							
Total 10 years of age and over.....	3,106,789	22,013	90,820	283,111	3,638	390,834	39,317
Number illiterate.....	140,607	1,008	3,453	29,413	204	17,782	1,516
Per cent illiterate.....	4.6	4.6	3.8	10.4	5.6	4.5	3.9
Per cent illiterate in 1910.....	5.2	4.8	4.3	10.8	7.3	5.7	4.8
Native white.....	2,002,584	17,740	67,526	160,355	2,685	252,564	31,159
Number illiterate.....	7,780	79	414	1,179	24	684	135
Per cent illiterate.....	0.4	0.4	0.6	0.7	0.9	0.3	0.4
Foreign-born white.....	1,093,872	3,571	22,418	117,840	683	136,222	8,052
Number illiterate.....	135,720	788	3,009	27,015	163	16,935	1,377
Per cent illiterate.....	12.8	22.1	13.4	23.0	23.8	12.4	17.1
Negro.....	37,003	520	820	4,761	138	1,666	85
Number illiterate.....	2,565	140	21	1,174	16	103	4
Per cent illiterate.....	6.8	26.6	2.6	24.7	11.6	6.1	.....
Total 16 to 20 years, inclusive.....	301,236	1,826	9,272	29,064	287	36,697	3,645
Number illiterate.....	2,880	20	48	971	2	285	22
Per cent illiterate.....	1.0	1.1	0.5	3.2	0.7	0.8	0.6
Illiterate males 21 years of age and over.....	66,799	513	1,670	13,287	107	8,026	701
Per cent of all males 21 years of age and over.....	5.7	6.1	4.9	12.8	7.8	5.4	4.6
Native white.....	3,333	32	226	491	15	288	66
Foreign-born white.....	61,662	405	1,424	12,219	81	7,021	634
Negro.....	1,283	75	11	594	10	61	2
Illiterate females 21 years of age and over.....	70,021	461	1,715	14,987	91	9,377	780
Per cent of all females 21 years of age and over.....	6.1	5.1	4.8	13.6	6.0	6.0	5.2
Native white.....	3,066	28	157	593	5	278	51
Foreign-born white.....	71,668	369	1,548	13,852	80	9,056	727
Negro.....	1,283	64	10	672	6	30	2
<b>DWELLINGS AND FAMILIES.</b>							
Dwellings, number.....	597,052	7,382	22,188	51,400	1,209	81,302	10,012
Families, number.....	874,798	7,769	26,264	80,340	1,271	111,606	12,023



TABLE 9.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR COUNTIES: 1920—Continued.

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

SUBJECT.	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Suffolk.	Worcester.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>								
Total population	300,305	69,599	778,352	2,797	219,081	156,968	835,522	455,135
Male	148,231	33,845	373,334	1,315	104,331	78,887	412,927	228,219
Female	152,074	35,754	405,018	1,482	114,750	78,081	422,595	226,916
Native white	214,962	53,166	562,026	2,357	164,597	120,349	549,167	328,597
Male	105,172	25,779	270,391	1,123	79,036	59,794	270,494	162,220
Female	109,790	27,387	292,235	1,234	85,561	60,555	278,673	166,377
Native white—Native parentage	93,994	26,187	264,821	1,743	87,236	70,470	202,412	146,779
Native white—Foreign parentage	90,096	20,026	299,867	269	53,701	34,095	266,949	133,813
Native white—Mixed parentage	30,902	6,953	87,938	345	23,600	15,778	79,806	48,005
Foreign-born white	81,984	16,122	205,361	323	53,459	34,516	268,202	124,414
Male	41,262	7,915	97,884	131	24,859	17,922	132,775	64,881
Female	40,722	8,207	107,477	192	28,600	16,594	135,427	59,533
Negro	3,149	292	9,953	112	883	1,980	16,680	1,928
Male	1,604	136	4,692	58	321	1,073	8,560	967
Female	1,545	156	5,261	54	562	907	8,320	961
Indian, Chinese, Japanese, and all other (see Tables 1 and 7)	210	19	412	5	142	123	1,273	196
Per cent native white	71.6	76.4	72.3	84.3	75.1	76.7	65.7	72.2
Per cent foreign-born white	27.3	23.2	26.4	11.5	24.4	22.0	32.1	27.3
Per cent Negro	1.0	0.4	1.3	4.0	0.4	1.3	2.0	0.4
1910: Total population	231,369	63,327	669,915	2,962	187,506	144,337	731,388	399,657
Native white	156,937	40,835	461,555	2,508	135,716	109,008	454,232	275,528
Foreign-born white	72,567	16,155	199,333	418	50,840	32,774	261,894	122,079
Negro	1,757	281	8,583	35	797	2,484	13,880	1,847
Per cent native white	67.8	74.0	68.9	84.7	72.4	75.5	62.1	68.9
Per cent foreign-born white	31.4	25.5	29.8	14.1	27.1	22.7	35.8	30.5
Per cent Negro	0.8	0.4	1.3	1.2	0.4	1.7	1.9	0.6
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>								
Total under 7 years of age	45,630	10,434	105,329	312	28,823	19,990	111,533	65,760
Total 7 to 13 years, inclusive	38,527	9,269	95,803	320	27,035	18,909	100,815	58,707
Number attending school	36,854	8,888	92,927	309	26,328	18,288	95,697	50,038
Per cent attending school	95.7	96.9	97.0	96.6	97.4	96.7	94.9	95.5
Total 14 and 15 years	9,587	2,429	24,425	74	6,805	4,728	25,442	15,056
Number attending school	6,568	1,556	19,840	63	5,692	3,667	21,120	9,993
Per cent attending school	68.5	64.1	81.2	85.1	83.6	77.6	83.0	66.4
Total 16 and 17 years	9,265	2,421	24,624	64	6,478	4,647	25,522	14,833
Number attending school	3,507	843	11,787	42	3,425	2,017	11,014	5,343
Per cent attending school	37.9	34.8	47.9	65.6	52.9	43.4	43.2	36.0
Total 18 to 20 years, inclusive	13,023	3,118	36,535	88	9,533	7,038	40,081	21,375
Number attending school	2,104	522	7,296	21	2,158	1,159	6,030	2,916
Per cent attending school	15.1	16.7	20.0	23.9	22.6	16.5	15.0	13.6
Males 21 years of age and over	90,210	19,876	231,192	880	65,116	50,936	261,690	140,202
Native white—Native parentage	27,143	7,280	75,260	595	25,067	22,606	59,988	42,838
Native white—Foreign or mixed parentage	23,666	5,059	62,211	124	16,539	10,976	71,602	36,896
Foreign-born white	38,122	7,442	90,537	125	23,163	16,598	122,756	59,701
Naturalized	14,403	2,594	43,632	70	10,917	7,025	57,341	23,411
First papers	6,673	706	13,878	11	4,320	2,175	21,063	8,857
Alien	16,528	3,710	32,504	42	7,676	7,061	40,580	25,306
Unknown	520	432	523	2	260	387	3,772	2,127
Negro	1105	81	2,845	34	228	674	6,382	638
Indian, Chinese, Japanese, and all other	174	14	339	2	99	82	962	130
Females 21 years of age and over	93,163	22,052	260,444	1,059	75,291	50,720	270,439	139,202
Native white—Native parentage	28,531	8,352	85,489	659	29,205	23,589	61,737	44,468
Native white—Foreign or mixed parentage	26,422	5,931	71,303	183	18,982	11,419	78,111	39,843
Foreign-born white	37,148	7,671	99,208	183	26,656	15,210	124,494	54,263
Naturalized	15,184	2,962	49,625	115	12,500	7,731	57,113	23,789
First papers	476	32	1,124	1	387	218	1,848	419
Alien	20,611	4,101	47,611	66	13,387	7,053	59,104	26,578
Unknown	877	576	848	1	382	208	6,429	3,477
Negro	1,052	94	3,330	33	435	487	6,019	597
Indian, Chinese, Japanese, and all other	10	4	24	1	13	15	78	31
Males 18 to 44 years, inclusive	66,149	12,830	157,003	437	43,017	32,425	186,867	97,228
Females 18 to 44 years, inclusive	68,353	14,389	175,979	509	49,788	32,378	192,579	95,484
<b>ILLITERACY.</b>								
Total 10 years of age and over	237,500	55,108	631,566	2,352	178,452	128,698	679,944	363,416
Number illiterate	12,233	3,815	20,028	49	5,421	4,397	28,977	18,311
Per cent illiterate	5.2	6.9	3.2	2.1	3.0	3.4	4.3	5.0
Per cent illiterate in 1910	6.4	5.0	3.2	5.1	2.8	3.8	4.5	5.8
Native white	153,707	38,882	420,389	1,945	124,674	93,003	398,920	238,075
Number illiterate	894	229	1,344	4	387	303	576	1,528
Per cent illiterate	0.6	0.6	0.3	0.2	0.3	0.3	0.1	0.6
Foreign-born white	80,906	15,967	202,722	321	52,860	34,082	265,276	122,659
Number illiterate	11,171	3,567	18,417	28	4,993	3,816	27,704	16,677
Per cent illiterate	13.8	22.3	9.1	8.7	9.4	11.2	10.5	13.6
Negro	2,089	240	8,059	82	804	1,500	14,598	1,605
Number illiterate	157	18	195	17	81	262	341	86
Per cent illiterate	5.8	7.5	2.4	8.9	3.9	17.5	2.3	5.4
Total 16 to 20 years, inclusive	23,188	5,539	61,159	152	16,011	11,685	65,603	36,208
Number illiterate	215	52	511	1	112	57	272	313
Per cent illiterate	0.9	0.9	0.8	0.7	0.7	0.5	0.4	0.9
Illiterate males 21 years of age and over	5,450	1,821	8,887	22	2,710	2,207	12,578	8,780
Per cent of all males 21 years of age and over	6.0	9.2	3.8	2.5	4.2	4.3	4.8	6.3
Native white	306	117	408	2	134	192	218	808
Foreign-born white	5,098	1,694	8,319	11	2,552	1,845	11,938	7,910
Negro	65	9	66	9	15	157	162	47
Illiterate females 21 years of age and over	6,470	1,932	10,396	26	2,538	2,110	16,024	9,114
Per cent of all females 21 years of age and over	6.9	8.8	4.0	2.6	3.4	4.2	5.9	6.5
Native white	358	91	539	1	137	85	229	546
Foreign-born white	6,022	1,832	9,783	17	2,390	1,920	15,594	8,528
Negro	91	9	118	8	10	102	170	87
<b>DWELLINGS AND FAMILIES.</b>								
Dwellings, number	42,888	13,210	137,105	794	41,738	30,352	90,747	66,725
Families, number	66,482	15,496	176,344	879	50,130	38,731	183,763	100,710



## COMPOSITION AND CHARACTERISTICS.

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TABLE 10.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920.

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

SUBJECT.	CITIES OF 25,000 OR MORE.										
	Boston.	Brook- ton.	Brook- line town.	Cam- bridge.	Chelsea.	Chico- pee.	Everett.	Fall River.	Fitch- burg.	Haver- hill.	Hol- yoke.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>											
Total population.....	748,060	66,254	37,743	109,694	43,184	36,214	40,120	120,485	41,029	53,894	60,203
Male.....	368,756	32,809	15,148	52,428	22,304	18,437	19,793	57,018	20,162	26,490	28,901
Female.....	379,304	33,445	22,600	57,266	20,820	17,777	20,327	62,567	20,867	27,304	31,302
Native white.....	491,566	48,511	28,000	72,146	25,578	24,014	27,808	77,783	27,816	40,188	39,776
Male.....	241,633	23,093	12,122	34,581	13,040	11,994	13,828	37,382	13,470	19,461	19,171
Female.....	249,933	24,818	15,878	37,565	12,538	12,020	14,070	40,401	14,346	20,727	20,605
Native white—Native parentage.....	181,811	24,643	10,928	29,045	6,910	6,158	11,754	19,168	10,042	21,573	10,894
Native white—Foreign parentage.....	238,241	16,895	7,492	32,283	15,595	14,210	11,495	45,235	13,427	12,794	21,901
Native white—Mixed parentage.....	71,514	6,073	3,580	10,818	8,073	3,646	4,649	13,380	4,347	5,821	6,881
Foreign-born white.....	238,919	17,124	9,360	32,104	17,198	12,182	11,079	42,331	13,162	13,307	20,255
Male.....	117,770	8,795	2,929	15,219	9,101	6,427	5,401	20,334	6,655	6,829	9,622
Female.....	121,149	8,329	6,431	16,885	8,097	5,755	5,678	21,997	6,507	6,478	10,633
Negro.....	16,350	569	349	5,334	373	10	1,129	315	32	301	148
Male.....	8,295	274	65	2,535	196	8	551	152	18	174	83
Female.....	8,055	295	284	2,799	177	2	578	163	14	127	65
Indian, Chinese, Japanese, and all other (see Table 7).....	1,225	60	30	110	35	8	14	56	19	28	26
Per cent native white.....	65.7	73.2	74.2	65.8	59.2	66.3	69.5	64.6	67.8	74.6	66.1
Per cent foreign-born white.....	31.9	25.8	24.8	29.3	39.8	33.6	27.6	35.1	32.1	24.7	33.6
Per cent Negro.....	2.2	0.8	0.9	4.9	0.9	(1)	2.8	0.3	0.1	0.7	0.2
1910: Total population.....	670,585	56,878	27,792	104,839	32,452	25,401	33,484	119,295	37,826	44,115	57,730
Native white.....	414,974	40,800	10,202	65,409	18,429	15,352	23,065	67,083	24,100	32,533	34,427
Foreign-born white.....	240,722	15,425	8,345	34,608	13,748	10,036	9,907	50,874	13,011	11,163	23,238
Negro.....	13,564	531	221	4,707	242	7	705	355	42	397	45
Per cent native white.....	61.9	71.9	69.1	62.4	56.8	60.4	68.9	57.0	63.9	73.7	59.6
Per cent foreign-born white.....	35.9	27.1	30.0	33.0	42.4	39.5	28.7	42.6	36.0	25.3	40.3
Per cent Negro.....	2.0	0.9	0.8	4.5	0.7	(1)	2.4	0.3	0.1	0.9	0.1
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>											
Total under 7 years of age.....	97,870	8,489	3,419	14,076	7,136	7,049	6,089	18,980	6,112	6,951	8,549
Total 7 to 13 years, inclusive.....	88,524	7,929	3,290	13,204	6,137	5,416	5,412	17,008	5,506	6,180	7,937
Number attending school.....	83,821	7,605	3,158	12,889	5,976	5,158	5,230	17,506	5,148	5,945	7,559
Per cent attending school.....	94.7	95.9	95.9	97.2	96.6	95.2	96.6	97.8	93.5	96.1	95.2
Total 14 and 15 years.....	22,481	1,995	904	3,403	1,523	1,202	1,947	4,474	1,458	1,589	2,083
Number attending school.....	18,751	1,510	842	2,782	1,195	1,008	1,105	2,081	861	1,156	1,320
Per cent attending school.....	83.4	76.0	93.1	80.3	78.5	82.0	57.2	45.4	59.1	68.8	63.2
Total 16 and 17 years.....	22,610	1,921	906	3,478	1,464	1,191	1,336	4,446	1,333	1,610	2,117
Number attending school.....	9,774	770	684	1,403	568	242	636	900	442	560	813
Per cent attending school.....	43.2	40.1	75.5	42.1	38.8	20.3	47.6	21.6	33.2	34.7	38.4
Total 18 to 20 years, inclusive.....	35,629	3,024	1,617	5,430	2,301	1,087	1,946	6,332	1,883	2,541	3,253
Number attending school.....	5,422	497	681	1,005	288	130	209	717	251	304	550
Per cent attending school.....	15.2	16.4	42.1	18.5	12.5	7.7	15.4	11.3	12.7	12.0	16.9
Males 21 years of age and over.....	235,790	21,170	10,351	32,391	12,981	10,177	11,714	32,280	12,125	10,962	17,179
Native white—Native parentage.....	53,839	7,006	4,848	7,891	2,217	1,504	3,857	3,891	2,903	6,695	2,567
Native white—Foreign or mixed parentage.....	65,588	5,154	2,619	8,849	2,578	2,680	3,020	9,872	3,137	3,804	5,627
Foreign-born white.....	109,209	8,194	2,799	14,000	8,046	5,982	4,984	18,377	6,054	6,114	8,905
Naturalized.....	51,418	3,988	1,813	6,512	2,918	1,746	2,757	7,205	2,249	2,611	3,887
First papers.....	18,637	1,230	315	2,108	1,625	978	894	1,027	881	862	1,127
Alien.....	35,815	2,878	639	5,323	3,200	3,194	1,942	9,309	2,709	2,785	3,807
Unknown.....	3,339	94	32	67	213	64	21	286	215	76	84
Negro.....	6,227	171	56	1,572	118	3	340	99	15	124	60
Females 21 years of age and over.....	245,150	21,746	17,261	36,992	11,542	9,402	12,276	36,056	12,612	17,943	19,080
Native white—Native parentage.....	55,763	8,130	6,689	9,761	1,871	1,384	3,401	4,550	3,143	7,503	2,764
Native white—Foreign or mixed parentage.....	71,628	5,788	3,827	9,919	2,617	2,749	3,246	11,010	3,554	4,356	6,374
Foreign-born white.....	111,827	7,651	6,186	15,460	6,942	5,287	5,214	19,708	5,802	5,958	9,608
Naturalized.....	51,404	4,072	2,244	7,058	2,613	1,734	3,096	7,054	2,370	2,953	4,033
First papers.....	1,723	164	125	134	95	56	86	128	31	87	106
Alien.....	52,054	3,285	3,746	8,200	3,945	3,394	2,053	11,555	3,027	2,884	5,357
Unknown.....	5,746	130	71	98	289	83	29	431	374	84	173
Negro.....	5,859	168	256	1,821	109	2	354	113	13	127	44
Males 18 to 44 years, inclusive.....	107,626	14,545	6,449	23,227	9,609	7,937	8,334	23,003	8,771	11,702	12,710
Females 18 to 44 years, inclusive.....	173,547	15,112	11,122	25,723	8,988	7,507	8,687	26,339	9,080	12,203	14,469
<b>ILLITERACY.</b>											
Total 10 years of age and over.....	611,539	54,318	32,932	89,329	33,249	26,685	31,691	93,556	32,453	44,341	49,168
Number illiterate.....	24,524	1,469	80	2,730	3,088	1,780	604	11,178	1,529	1,352	2,487
Per cent illiterate.....	4.0	2.7	0.2	3.1	9.3	6.7	1.9	11.9	4.7	3.1	5.2
Per cent illiterate in 1910.....	4.4	2.6	1.0	3.0	8.1	7.0	1.6	13.2	6.3	4.0	6.8
Native white.....	350,954	30,878	23,253	53,290	15,987	14,643	19,813	51,520	19,505	30,837	28,052
Number illiterate.....	517	71	15	72	40	71	18	509	83	95	109
Per cent illiterate.....	0.1	0.2	0.1	0.1	0.3	0.5	0.1	1.0	0.4	0.3	0.4
Foreign-born white.....	236,320	16,917	9,307	31,624	10,880	12,025	10,952	41,738	12,900	13,165	19,973
Number illiterate.....	23,407	1,380	61	2,547	3,023	1,709	572	10,632	1,444	1,269	2,372
Per cent illiterate.....	9.9	8.2	0.7	8.1	17.8	14.2	5.2	25.5	11.2	9.6	11.9
Negro.....	14,162	465	338	4,814	307	9	912	245	29	311	118
Number illiterate.....	317	10	3	108	16	-----	14	27	2	11	4
Per cent illiterate.....	2.2	2.2	0.9	2.5	5.2	-----	1.4	11.0	-----	3.6	3.4
Total 16 to 20 years, inclusive.....	58,245	4,945	2,523	8,908	3,705	2,878	3,282	10,778	3,316	4,157	5,370
Number illiterate.....	244	14	-----	32	20	23	6	341	27	17	29
Per cent illiterate.....	0.4	0.3	-----	0.4	0.5	0.8	0.2	3.2	0.8	0.4	0.5
Illiterate males 21 years of age and over.....	10,804	603	26	1,205	1,287	894	256	4,008	688	547	1,093
Per cent of all males 21 years of age and over.....	4.6	2.8	0.3	3.7	9.9	8.8	2.2	15.2	5.7	3.2	6.4
Native white.....	196	33	4	25	17	20	8	153	40	36	48
Foreign-born white.....	10,204	560	21	1,138	1,256	865	240	4,730	648	501	1,042
Negro.....	187	40	-----	34	5	-----	7	15	-----	3	1
Illiterate females 21 years of age and over.....	13,390	840	50	1,484	1,774	850	340	5,869	807	811	1,359
Per cent of all females 21 years of age and over.....	5.5	3.9	0.3	4.0	15.4	9.0	2.8	16.3	6.4	4.5	7.1
Native white.....	208	25	7	31	12	23	6	271	32	47	53
Foreign-born white.....	12,995	807	40	1,332	1,752	827	328	5,598	773	766	1,303
Negro.....	152	6	3	70	10	-----	6	12	2	8	8
<b>DWELLINGS AND FAMILIES.</b>											
Dwellings, number.....	79,597	10,388	5,036	15,113	4,403	4,625	6,370	13,807	6,180	9,165	5,708
Families, number.....	164,785	16,084	8,003	25,293	8,833	7,004	9,187	26,399	9,273	12,814	12,948

1 Less than one-tenth of 1 per cent.



TABLE 10.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920—Continued.

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

	CITIES OF 25,000 OR MORE—continued.										
SUBJECT.	Law- rence.	Lowell.	Lynn.	Malden.	Med- ford.	New Bedford.	Newton.	Pitts- field.	Quincy.	Revere.	Salem.
COLOR OR RACE, NATIVITY, AND SEX.											
Total population.....	94,270	112,759	99,148	49,103	39,038	121,217	46,054	41,763	47,876	28,823	42,529
Male.....	46,881	54,271	48,874	23,302	18,623	59,388	20,807	20,407	24,205	14,437	20,691
Female.....	47,389	58,488	50,274	25,801	20,415	61,829	25,247	21,356	23,671	14,386	21,838
Native white.....	54,929	74,469	70,349	34,452	29,933	67,453	35,296	33,118	34,059	19,921	31,125
Male.....	28,841	35,632	34,565	16,442	14,376	32,701	16,441	15,879	17,041	9,947	15,056
Female.....	26,088	38,837	35,784	18,010	15,557	34,752	18,855	17,239	17,018	9,974	16,069
Native white—Native parentage.....	12,325	24,676	33,988	15,087	15,463	20,098	20,148	18,468	14,845	6,892	12,736
Native white—Foreign parentage.....	34,605	37,041	24,772	14,344	9,021	36,379	10,411	10,194	14,166	9,910	13,604
Native white—Mixed parentage.....	7,999	12,752	11,589	5,021	5,449	10,970	4,737	4,450	5,048	3,113	4,785
Foreign-born white.....	39,063	38,040	27,858	14,105	8,554	48,689	10,179	8,211	13,749	8,847	11,203
Male.....	19,839	18,466	13,782	6,604	3,971	23,864	4,138	4,297	7,115	4,459	5,522
Female.....	19,224	19,574	14,076	7,501	4,583	24,825	6,041	3,914	6,634	4,388	5,681
Negro.....	219	170	812	531	535	4,998	501	398	27	48	130
Male.....	142	100	404	241	261	2,766	211	195	15	24	57
Female.....	77	70	408	290	274	2,232	350	203	12	24	73
Indian, Chinese, Japanese, and all other (see Table 7).....	59	80	129	15	16	77	18	36	41	7	71
Per cent native white.....	58.3	66.0	71.0	70.2	76.7	55.6	76.6	79.3	71.1	69.1	73.2
Per cent foreign-born white.....	41.4	33.7	28.1	28.7	21.9	40.2	22.1	19.7	28.7	30.7	26.3
Per cent Negro.....	0.2	0.2	0.8	1.1	1.4	4.1	1.2	1.0	0.1	0.2	0.3
1910: Total population.....	85,892	106,294	89,336	44,404	23,150	96,652	39,806	32,121	32,642	18,219	43,697
Native white.....	44,252	62,045	61,174	30,407	17,578	61,074	28,112	25,021	21,693	12,842	20,957
Foreign-born white.....	41,819	43,457	27,444	13,430	5,126	42,025	11,191	6,744	10,875	5,331	13,539
Negro.....	265	133	700	486	431	2,885	467	320	66	93	163
Per cent native white.....	51.5	58.9	68.5	68.6	75.9	62.8	70.6	77.9	66.5	70.5	68.6
Per cent foreign-born white.....	48.1	40.9	30.6	30.2	22.1	44.1	28.1	21.0	33.3	29.3	31.0
Per cent Negro.....	0.3	0.1	0.8	1.1	1.9	3.0	1.2	1.0	0.1	0.2	0.4
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.											
Total under 7 years of age.....	14,532	16,152	12,535	6,696	5,603	17,870	5,546	6,052	7,351	4,744	6,057
Total 7 to 13 years, inclusive.....	12,606	14,017	11,563	6,467	4,730	15,578	5,001	5,073	6,200	4,453	5,640
Number attending school.....	11,838	13,590	11,164	6,339	4,626	14,945	5,497	4,693	6,099	4,306	5,466
Per cent attending school.....	94.7	97.0	96.5	98.0	97.8	95.9	98.1	92.5	97.4	96.7	96.9
Total 14 and 15 years.....	3,134	3,632	2,846	1,637	1,145	3,895	1,444	1,327	1,406	1,028	1,424
Number attending school.....	1,673	2,651	2,368	1,425	977	1,880	1,274	978	1,219	782	1,008
Per cent attending school.....	53.4	73.0	83.2	87.0	85.3	48.4	88.2	73.7	81.5	76.1	70.8
Total 16 and 17 years.....	3,057	3,660	2,826	1,602	1,182	3,936	1,488	1,368	1,445	1,012	1,397
Number attending school.....	769	1,325	1,206	874	625	770	969	496	696	380	506
Per cent attending school.....	25.2	36.2	42.7	52.6	52.9	19.6	65.1	36.5	48.2	37.5	36.2
Total 18 to 20 years, inclusive.....	4,465	5,601	4,432	2,463	1,738	6,310	2,124	1,811	2,163	1,354	2,023
Number attending school.....	503	785	634	474	368	596	696	222	379	155	294
Per cent attending school.....	11.3	14.3	14.3	19.2	22.3	9.4	32.8	11.6	17.5	11.4	14.5
Males 21 years of age and over.....	28,275	33,512	31,022	14,033	11,426	36,158	12,796	12,665	14,755	8,064	12,502
Native white—Native parentage.....	2,988	6,282	10,805	4,354	4,360	5,812	5,646	5,047	4,351	1,844	3,519
Native white—Foreign or mixed parentage.....	7,062	9,970	8,056	3,540	3,244	7,508	3,122	3,522	3,841	2,066	3,788
Foreign-born white.....	18,020	17,119	12,694	5,982	3,675	20,980	3,883	3,940	6,524	4,134	5,113
Naturalized.....	6,591	7,000	6,146	3,144	2,328	7,671	2,065	1,959	3,243	2,009	2,775
First papers.....	2,192	1,912	2,004	1,348	713	2,337	617	519	1,860	648	796
Alien.....	9,105	8,014	4,438	1,486	627	10,945	1,169	1,509	1,343	1,278	1,910
Unknown.....	132	103	46	4	7	128	35	163	78	19	32
Negro.....	118	72	260	142	132	1,790	126	120	13	13	35
Females 21 years of age and over.....	28,312	36,285	33,294	16,145	13,214	37,470	17,055	13,777	14,406	8,168	13,486
Native white—Native parentage.....	3,168	7,153	11,266	5,156	4,869	6,450	7,133	5,494	4,410	1,903	4,071
Native white—Foreign or mixed parentage.....	7,933	11,177	8,687	4,030	3,912	8,269	3,069	4,248	3,042	2,205	4,127
Foreign-born white.....	17,156	17,904	12,825	6,799	4,274	21,506	5,066	3,515	6,044	4,047	5,239
Naturalized.....	6,566	7,628	6,796	3,578	2,779	7,708	2,572	1,654	3,384	1,980	2,611
First papers.....	168	151	112	144	32	202	95	28	108	22	35
Alien.....	10,183	9,079	5,835	3,068	1,452	13,392	2,058	1,659	2,454	1,735	2,523
Unknown.....	239	146	82	9	11	206	41	174	98	310	60
Negro.....	55	48	243	160	158	1,241	236	120	8	13	52
Males 18 to 44 years, inclusive.....	20,811	23,593	22,200	9,602	8,132	27,249	8,212	8,980	10,879	6,144	8,693
Females 18 to 44 years, inclusive.....	21,389	25,905	22,435	11,040	9,268	28,137	11,265	9,557	10,566	6,226	9,142
ILLITERACY.											
Total 10 years of age and over.....	74,106	90,509	81,526	39,683	31,348	96,341	38,138	33,453	37,763	22,095	34,020
Number illiterate.....	7,105	6,231	1,989	753	320	11,631	730	1,222	1,146	1,263	1,788
Per cent illiterate.....	9.6	6.9	2.4	1.9	1.0	12.1	1.9	3.7	3.0	5.7	5.3
Per cent illiterate in 1910.....	13.2	6.0	3.0	2.2	1.1	12.1	3.7	8.6	2.4	3.1	6.0
Native white.....	35,387	52,739	53,219	25,277	22,474	44,849	27,575	24,984	24,174	13,290	22,794
Number illiterate.....	113	245	82	14	25	317	15	62	21	16	72
Per cent illiterate.....	0.3	0.5	0.2	0.1	0.1	0.7	0.1	0.2	0.1	0.1	0.3
Foreign-born white.....	38,463	37,549	27,544	13,968	8,456	47,636	10,073	8,094	13,532	8,761	11,062
Number illiterate.....	6,952	5,960	1,850	728	286	10,330	702	1,153	1,121	1,246	1,708
Per cent illiterate.....	18.1	15.9	6.7	5.2	3.4	21.7	7.0	14.2	8.3	14.2	15.4
Negro.....	197	144	639	423	402	3,781	472	339	24	87	102
Number illiterate.....	31	6	35	10	8	954	9	2	.....	.....	3
Per cent illiterate.....	15.7	4.2	5.5	2.4	2.0	25.2	1.9	0.6	.....	.....	2.9
Total 16 to 20 years, inclusive.....	7,512	9,161	7,258	4,125	2,920	10,246	3,612	3,269	3,608	2,366	3,420
Number illiterate.....	138	187	23	4	8	496	7	11	21	7	17
Per cent illiterate.....	1.8	2.0	0.3	0.1	0.3	4.8	0.2	0.3	0.6	0.3	0.5
Illiterate males 21 years of age and over.....	3,072	2,784	813	257	123	5,131	323	600	503	455	902
Per cent of all males 21 years of age and over.....	10.9	8.3	2.5	1.8	1.1	14.2	2.5	4.7	3.8	5.6	7.2
Native white.....	40	87	32	5	8	131	7	28	10	3	25
Foreign-born white.....	2,993	2,677	747	246	112	4,539	310	566	550	451	873
Negro.....	30	3	14	5	2	433	2	1	.....	.....	1
Illiterate females 21 years of age and over.....	3,864	3,217	1,130	490	183	5,933	399	604	559	795	861
Per cent of all females 21 years of age and over.....	13.6	8.9	3.4	3.0	1.4	15.8	2.3	4.5	3.9	9.7	6.4
Native white.....	50	119	26	7	8	148	5	26	4	8	34
Foreign-born white.....	3,813	3,093	1,082	478	170	5,295	387	577	554	787	823
Negro.....	3	3	20	5	5	490	7	1	.....	.....	2
DWELLINGS AND FAMILIES.											
Dwellings, number.....	12,700	17,488	14,841	8,495	7,632	14,961	8,944	7,693	9,483	3,942	5,902
Families, number.....	19,715	25,034	23,308	11,238	9,351	26,858	10,189	9,499	11,146	6,375	9,363



## COMPOSITION AND CHARACTERISTICS.

31

TABLE 10.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920—Continued.

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

SUBJECT.	CITIES OF 25,000 OR MORE—continued.					CITIES AND TOWNS OF 10,000 TO 25,000.					
	Somer-ville.	Spring-field.	Taun-ton.	Wal-tham.	Worce-ster.	Adams-town.	Ames-bury town.	Arling-ton town.	Attle-boro city.	Belmont town.	Beverly city.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>											
Total population	93,091	129,614	37,137	30,915	179,754	12,967	10,036	18,665	19,731	10,749	22,561
Male	44,350	63,722	18,109	14,626	89,586	6,298	5,029	8,663	9,785	5,029	11,157
Female	48,741	65,892	19,028	16,289	90,168	6,669	5,007	10,012	9,946	5,720	11,404
Native white	68,543	95,549	26,789	22,739	124,973	9,007	7,850	14,527	14,879	8,180	17,168
Male	32,658	46,359	13,001	10,838	61,024	4,380	3,904	6,768	7,414	3,877	8,503
Female	35,885	49,190	13,788	11,901	63,949	4,627	3,955	7,759	7,465	4,303	8,665
Native white—Native parentage	32,289	48,945	12,068	10,676	50,716	2,703	4,298	7,549	7,434	4,407	9,830
Native white—Foreign parentage	25,157	32,991	10,820	8,490	56,841	4,912	2,323	4,604	4,630	2,534	4,754
Native white—Mixed parentage	11,007	13,613	3,901	3,573	17,416	1,392	1,238	2,374	2,806	1,239	2,584
Foreign-born white	24,182	31,250	9,998	8,104	53,418	3,949	2,158	4,097	4,723	2,637	5,314
Male	11,506	15,873	4,879	3,743	27,874	1,913	1,114	1,875	2,308	1,142	2,612
Female	12,676	15,377	5,119	4,361	25,544	2,036	1,044	2,222	2,415	1,495	2,702
Negro	328	2,650	345	43	1,258	8	17	41	118	28	60
Male	153	1,339	224	18	608	2	10	10	52	4	25
Female	175	1,311	121	25	650	6	8	31	66	24	35
Indian, Chinese, Japanese, and all other (see Table 7)	38	165	5	29	105	3	2	.....	11	4	19
Per cent native white	73.6	73.7	72.1	73.6	69.5	69.5	78.3	77.8	75.4	76.1	76.1
Per cent foreign-born white	26.0	24.1	26.9	26.2	29.7	30.5	21.5	22.0	23.9	23.6	23.6
Per cent Negro	0.4	2.0	0.9	0.1	0.7	0.1	0.2	0.2	0.6	0.3	0.3
1910: Total population	77,236	88,926	34,259	27,834	145,986	13,026	9,894	11,187	16,215	5,542	15,650
Native white	56,205	84,383	24,176	20,060	96,172	7,920	7,247	8,357	11,011	3,952	13,919
Foreign-born white	20,761	22,999	9,779	7,683	48,492	5,097	2,635	2,758	4,453	1,572	4,601
Negro	217	1,475	297	62	1,241	4	10	67	138	15	61
Per cent native white	72.8	72.4	70.6	72.1	65.9	60.8	73.2	74.7	71.6	71.3	74.6
Per cent foreign-born white	26.9	25.9	28.5	27.6	33.2	39.1	26.6	24.7	27.5	28.4	25.0
Per cent Negro	0.3	1.7	0.9	0.2	0.9	(1)	0.1	0.6	0.9	0.3	0.3
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>											
Total under 7 years of age	12,400	17,524	5,290	3,802	26,266	2,120	1,300	2,334	2,714	1,545	3,014
Total 7 to 13 years, inclusive	10,876	14,527	4,774	3,060	21,941	1,907	1,154	2,261	2,654	1,133	2,873
Number attending school	10,819	13,920	4,601	3,304	20,873	1,855	1,128	2,198	2,587	1,113	2,781
Per cent attending school	94.9	95.9	97.0	95.1	94.3	94.3	97.7	97.0	94.8	98.2	96.8
Total 14 and 15 years	2,742	3,648	1,172	831	5,448	498	288	509	585	270	694
Number attending school	2,263	2,830	737	735	4,049	213	214	544	393	247	577
Per cent attending school	82.5	77.8	62.9	78.9	74.3	42.8	74.3	90.8	60.3	91.5	83.1
Total 16 and 17 years	2,814	3,693	1,147	1,062	5,517	453	296	548	644	234	694
Number attending school	1,837	1,660	403	461	2,303	96	129	324	200	120	387
Per cent attending school	65.3	44.9	35.1	43.4	41.7	19.9	43.6	59.1	31.1	51.3	55.8
Total 18 to 20 years, inclusive	4,269	5,827	1,703	1,557	8,424	645	457	854	804	403	889
Number attending school	832	972	265	273	1,202	51	67	234	82	90	196
Per cent attending school	19.5	16.7	15.6	17.5	15.3	7.9	14.7	27.4	10.2	22.3	19.8
Males 21 years of age and over	28,204	41,301	11,137	9,006	55,977	3,486	3,280	5,404	5,993	3,256	7,001
Native white—Native parentage	9,688	14,966	3,570	3,054	14,363	679	1,819	2,692	2,108	1,319	3,141
Native white—Foreign or mixed parentage	7,715	10,587	2,987	2,517	15,224	998	923	1,695	1,074	852	1,446
Foreign-born white	10,776	14,674	4,428	3,404	25,911	1,804	1,030	1,772	2,107	1,080	2,381
Naturalized	5,642	6,206	1,513	1,668	10,892	817	481	1,064	1,051	558	1,214
First papers	2,278	3,196	883	515	4,637	219	149	253	271	203	482
Alien	2,828	5,058	2,320	1,105	9,698	674	391	450	764	318	665
Unknown	33	214	212	20	684	94	9	5	21	1	20
Negro	94	936	147	6	413	2	6	5	33	3	18
Females 21 years of age and over	31,787	43,094	11,905	10,897	56,181	3,768	3,261	6,015	6,337	3,908	7,206
Native white—Native parentage	10,790	16,007	3,596	3,720	15,353	722	2,489	2,260	2,108	1,504	3,254
Native white—Foreign or mixed parentage	9,059	12,119	3,312	3,149	10,933	1,131	911	1,908	1,816	1,078	1,646
Foreign-born white	11,828	14,950	4,620	4,009	23,478	1,912	1,059	2,106	2,214	1,309	2,470
Naturalized	6,663	6,559	1,661	2,081	10,899	833	501	1,213	1,241	687	1,438
First papers	195	241	35	39	253	9	2	14	10	15	23
Alien	4,953	6,843	2,511	1,855	11,000	894	440	871	945	600	980
Unknown	117	407	413	34	1,326	176	7	8	18	1	20
Negro	110	910	77	19	400	3	22	47	47	16	25
Males 18 to 44 years, inclusive	19,393	30,614	7,514	6,216	40,726	2,488	2,001	3,652	4,068	2,240	4,713
Females 18 to 44 years, inclusive	21,488	31,191	7,813	7,499	40,406	2,752	1,997	4,432	4,417	2,671	4,843
<b>ILLITERACY.</b>											
Total 10 years of age and over	75,995	105,680	29,711	25,561	143,725	9,988	8,243	15,348	15,828	8,698	18,309
Number illiterate	1,311	3,939	2,746	1,150	6,779	610	339	145	427	152	549
Per cent illiterate	1.7	3.7	9.2	4.5	4.7	6.1	4.1	0.9	2.7	1.7	3.0
Per cent illiterate in 1910	1.9	4.5	9.4	3.8	5.0	4.9	6.9	1.9	4.0	2.4	2.3
Native white	51,859	72,388	10,595	17,467	89,769	6,058	6,108	11,245	11,074	6,157	12,994
Number illiterate	80	276	127	510	297	42	37	4	60	3	13
Per cent illiterate	0.2	0.4	0.6	2.9	0.3	0.7	0.6	(1)	0.6	(1)	0.1
Foreign-born white	23,835	30,857	9,832	8,024	52,821	3,919	2,118	4,068	4,640	2,511	5,245
Number illiterate	1,218	3,586	2,492	624	5,007	566	299	140	363	148	524
Per cent illiterate	5.1	11.5	25.3	7.8	12.3	14.4	14.1	3.4	7.6	5.9	10.0
Negro	205	2,279	279	41	1,044	8	15	35	103	26	52
Number illiterate	8	118	124	9	27	1	2	1	6	.....	2
Per cent illiterate	3.0	5.2	44.4	.....	2.6	.....	.....	.....	5.8	.....	.....
Total 16 to 20 years, inclusive	7,083	9,520	2,880	2,019	13,941	1,128	753	1,402	1,448	637	1,683
Number illiterate	18	40	55	131	80	8	6	4	7	.....	5
Per cent illiterate	0.3	0.4	1.9	6.0	0.6	0.7	0.8	0.3	0.5	.....	0.3
Illiterate males 21 years of age and over	591	1,780	1,350	362	3,062	289	185	73	200	71	280
Per cent of all males 21 years of age and over	2.1	4.2	12.1	4.0	5.5	8.3	5.6	1.3	3.3	2.2	4.0
Native white	29	113	52	91	92	17	18	1	34	1	7
Foreign-born white	555	1,559	1,217	263	2,961	271	164	72	161	70	263
Negro	3	50	78	2	12	.....	.....	.....	3	.....	.....
Illiterate females 21 years of age and over	691	2,154	1,317	518	3,607	310	146	68	219	80	263
Per cent of all females 21 years of age and over	2.2	5.0	11.1	4.8	8.4	8.2	4.5	1.0	3.5	2.0	3.6
Native white	37	137	60	175	110	20	16	2	31	1	9
Foreign-born white	649	1,948	1,216	339	3,433	289	130	65	185	78	252
Negro	5	68	41	4	14	1	.....	1	3	.....	2
<b>DWELLINGS AND FAMILIES.</b>											
Dwellings, number	15,112	18,945	5,989	5,681	19,337	2,274	2,103	3,571	3,763	1,895	4,005
Families, number	22,653	30,361	8,002	6,566	39,230	2,793	2,502	4,335	4,712	2,593	6,463

1 Less than one-tenth of 1 per cent.



TABLE 10.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920—Continued.

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

CITIES AND TOWNS OF 10,000 TO 25,000—continued.											
SUBJECT.	Braintree town.	Clinton town.	Danvers town.	Dedham town.	East-hampton town.	Framming-ham town.	Gardner town.	Gloucester city.	Greenfield town.	Leominster city.	Marlborough city.
COLOR OR RACE, NATIVITY, AND SEX.											
Total population.....	10,580	12,979	11,108	10,792	11,281	17,033	16,971	22,947	15,462	19,744	15,028
Male.....	5,179	6,254	5,445	5,214	5,532	8,324	8,328	11,445	7,904	9,692	7,378
Female.....	5,401	6,725	5,663	5,578	5,749	8,709	8,643	11,502	7,558	10,052	7,650
Native white.....	8,291	8,862	8,917	7,937	7,801	12,846	11,385	17,041	12,813	14,656	11,863
Male.....	4,043	4,265	4,406	3,857	3,790	6,168	5,679	8,433	6,465	7,091	5,740
Female.....	4,248	4,597	4,511	4,080	4,011	6,678	5,706	8,608	6,348	7,565	6,123
Native white—Native parentage.....	4,607	2,585	5,274	3,436	2,653	7,318	4,700	7,955	8,258	7,532	5,429
Native white—Foreign parentage.....	4,697	4,941	2,300	3,289	3,914	3,974	5,125	5,858	3,042	4,788	4,342
Native white—Mixed parentage.....	1,228	1,335	1,343	1,212	1,234	1,554	1,500	3,228	1,513	2,336	2,092
Foreign-born white.....	2,276	4,111	2,178	2,807	3,459	4,001	5,556	5,883	2,555	4,984	3,133
Male.....	1,130	1,985	1,031	1,333	1,741	2,028	3,134	2,993	1,380	2,542	1,616
Female.....	1,146	2,126	1,147	1,474	1,718	1,973	2,422	2,890	1,175	2,442	1,517
Negro.....	0	2	9	39	174	25	6	83	95	18	18
Male.....	4	2	5	15	81	13	4	35	45	8	8
Female.....	4	2	4	5	9	12	5	17	11	9	14
Indian, Chinese, Japanese, and all other.....	4	4	4	9	1	12	5	17	11	9	14
Per cent native white.....	78.4	68.3	80.3	73.5	69.3	75.4	67.1	74.3	82.9	74.2	78.9
Per cent foreign-born white.....	21.5	31.7	19.6	26.0	30.7	23.5	32.7	25.6	16.5	25.2	20.8
Per cent Negro.....	0.1	( <sup>1</sup> )	0.1	0.4	0.7	1.0	0.1	( <sup>1</sup> )	0.5	0.5	0.1
1910: Total population.....	8,068	13,075	9,407	9,284	8,524	12,948	14,699	24,398	10,427	17,580	14,579
Native white.....	6,195	8,259	7,488	6,509	5,422	9,713	9,347	16,881	8,445	12,609	11,203
Foreign-born white.....	1,857	4,798	1,908	2,718	3,077	3,156	5,312	7,484	1,918	4,875	3,344
Negro.....	10	12	6	54	8	69	34	12	61	91	26
Per cent native white.....	76.8	63.2	79.6	70.1	63.6	75.0	63.6	69.2	81.0	71.7	76.8
Per cent foreign-born white.....	23.0	36.7	20.3	29.3	36.1	24.4	36.1	30.7	18.4	27.7	22.9
Per cent Negro.....	0.1	0.1	0.1	0.6	0.1	0.5	0.2	( <sup>1</sup> )	0.6	0.5	0.2
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.											
Total under 7 years of age.....	1,565	1,913	1,248	1,651	2,011	2,316	2,571	2,888	2,194	2,803	1,931
Total 7 to 13 years, inclusive.....	1,447	1,755	1,162	1,533	1,564	2,000	2,364	2,949	1,760	2,531	1,787
Number attending school.....	1,406	1,710	1,126	1,552	1,487	1,949	2,272	2,876	1,667	2,444	1,754
Per cent attending school.....	97.2	97.4	87.4	93.0	90.0	97.5	96.1	97.5	94.7	96.6	98.2
Total 14 and 15 years.....	339	419	290	375	379	479	551	775	414	649	488
Number attending school.....	285	212	239	290	192	365	347	651	322	450	322
Per cent attending school.....	84.1	50.6	82.4	77.3	50.7	76.2	63.0	84.0	77.8	70.7	66.0
Total 16 and 17 years.....	329	445	321	330	421	505	499	819	444	646	494
Number attending school.....	148	113	154	153	82	239	164	380	198	228	177
Per cent attending school.....	45.0	25.4	48.0	46.4	19.5	47.3	32.9	46.4	44.6	35.3	35.8
Total 18 to 20 years, inclusive.....	460	637	448	472	579	756	656	1,095	740	959	673
Number attending school.....	77	76	72	78	54	112	73	214	105	122	90
Per cent attending school.....	16.7	11.9	16.1	16.5	9.3	14.8	11.1	19.5	14.2	12.7	13.4
Males 21 years of age and over.....	3,114	3,695	3,688	3,030	3,078	5,330	5,510	7,194	5,098	5,967	4,724
Native white—Native parentage.....	1,392	595	1,689	850	641	2,198	1,536	2,362	2,640	2,267	1,390
Native white—Foreign or mixed parentage.....	682	1,221	1,020	930	811	1,224	1,077	1,995	1,095	1,443	1,795
Foreign-born white.....	1,037	1,876	971	1,231	1,625	1,842	2,882	2,819	1,322	2,233	1,525
Naturalized.....	483	1,008	440	571	533	674	901	1,412	460	864	766
First papers.....	165	187	52	206	116	226	309	377	223	339	174
Alien.....	384	675	461	448	805	931	1,500	1,016	507	981	583
Unknown.....	5	6	18	6	81	11	172	14	42	49	2
Negro.....	2	4	4	17	54	54	12	1	30	25	4
Females 21 years of age and over.....	3,326	4,115	3,951	3,351	3,229	5,647	4,820	7,227	4,812	6,189	4,931
Native white—Native parentage.....	1,507	691	1,800	937	668	2,498	1,618	2,412	2,525	2,435	1,500
Native white—Foreign or mixed parentage.....	769	1,405	1,057	1,023	967	1,318	1,091	2,140	1,162	1,578	2,006
Foreign-born white.....	1,046	2,018	1,089	1,374	1,594	1,782	2,197	2,672	1,104	2,143	1,422
Naturalized.....	567	1,052	575	663	553	776	825	1,539	547	905	781
First papers.....	10	7	2	13	6	13	13	15	7	6	19
Alien.....	463	939	465	692	875	974	1,154	1,091	520	1,138	621
Unknown.....	6	20	47	6	160	19	205	27	30	94	1
Negro.....	3	1	5	13	49	49	12	3	21	33	2
Males 18 to 44 years, inclusive.....	2,090	2,555	2,269	2,054	2,290	3,647	3,859	4,329	3,620	3,920	3,020
Females 18 to 44 years, inclusive.....	2,250	2,790	2,366	2,252	2,463	3,850	3,403	4,557	3,450	4,100	3,201
ILLITERACY.											
Total 10 years of age and over.....	8,375	10,312	9,402	8,440	8,532	13,835	13,305	18,749	12,475	15,611	12,337
Number illiterate.....	254	634	240	308	1,354	846	707	886	359	483	413
Per cent illiterate.....	3.0	6.1	2.6	3.6	16.2	6.1	5.3	4.6	2.9	3.1	3.3
Per cent illiterate in 1910.....	1.9	6.5	1.9	6.5	10.3	5.8	7.7	4.8	4.1	6.2	4.6
Native white.....	6,127	6,227	7,226	5,620	5,099	9,768	7,812	12,927	9,876	10,864	9,207
Number illiterate.....	12	10	43	7	45	21	80	40	28	55	58
Per cent illiterate.....	0.2	0.2	0.6	0.1	0.9	0.2	1.0	0.3	0.3	0.5	0.6
Foreign-born white.....	2,239	4,079	2,163	2,778	3,432	3,922	5,464	5,801	2,524	4,385	3,102
Number illiterate.....	239	620	201	301	1,335	812	622	793	381	426	355
Per cent illiterate.....	10.7	15.2	9.3	10.8	39.0	20.7	11.4	13.7	13.1	8.8	11.4
Negro.....	7	2	9	36	133	133	24	4	64	73	14
Number illiterate.....	2	1	3	3	8	8	4	1	1	1	1
Per cent illiterate.....	2.0	1.0	0.3	0.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Total 16 to 20 years, inclusive.....	789	1,082	769	802	1,000	1,261	1,155	1,914	1,184	1,605	1,167
Number illiterate.....	12	12	5	5	30	9	11	11	8	6	3
Per cent illiterate.....	1.5	1.1	0.7	0.7	3.0	0.7	1.0	0.6	0.3	0.4	0.3
Illiterate males 21 years of age and over.....	132	257	134	153	658	464	376	415	164	237	190
Per cent of all males 21 years of age and over.....	4.2	7.0	3.6	5.0	21.4	8.7	6.8	5.8	3.2	4.0	4.0
Native white.....	7	6	25	3	20	10	43	19	13	23	25
Foreign-born white.....	124	249	105	150	637	446	330	393	151	212	165
Negro.....	2	2	2	2	2	2	2	2	2	2	2
Illiterate females 21 years of age and over.....	109	365	210	155	693	370	314	407	192	239	219
Per cent of all females 21 years of age and over.....	3.3	8.9	2.8	4.6	21.5	6.6	6.5	5.6	4.0	3.9	4.4
Native white.....	5	4	16	4	23	9	29	15	14	31	30
Foreign-born white.....	103	360	93	151	670	357	283	392	178	208	189
Negro.....	1	1	1	1	1	1	1	1	1	1	1
DWELLINGS AND FAMILIES.											
Dwellings, number.....	2,298	2,112	1,928	2,103	1,978	3,287	2,357	4,348	2,761	3,307	2,599
Families, number.....	2,504	2,824	2,345	2,409	2,374	3,877	3,607	5,624	3,547	4,568	3,527

<sup>1</sup> Less than one-tenth of 1 per cent.



## COMPOSITION AND CHARACTERISTICS.

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TABLE 10.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920—Continued.

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

SUBJECT.	CITIES AND TOWNS OF 10,000 TO 25,000—continued.										
	Melrose city.	Methuen city.	Milford town.	Natick town.	Newburyport city.	North Adams city.	Northampton city.	Northbridge town.	Norwood town.	Peabody city.	Plymouth town.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>											
Total population.....	18,204	15,189	13,471	10,907	15,618	22,282	21,951	10,174	12,627	19,552	13,045
Male.....	8,404	7,296	6,731	5,240	7,480	10,768	10,220	5,512	6,027	10,628	6,481
Female.....	9,800	7,893	6,740	5,667	8,138	11,514	11,731	4,662	6,600	8,924	6,564
Native white.....	14,840	9,926	9,703	8,807	12,335	17,165	16,920	6,487	8,350	12,417	9,049
Male.....	6,952	4,804	4,730	4,218	5,873	8,100	7,844	3,420	4,108	6,282	4,370
Female.....	7,888	5,122	4,973	4,589	6,462	9,065	9,076	3,067	4,242	6,135	4,679
Native white—Native parentage.....	9,403	3,574	3,632	4,039	7,362	8,080	8,345	2,333	3,065	4,982	4,009
Native white—Foreign parentage.....	3,051	4,605	4,954	2,515	3,195	6,152	6,060	2,038	4,142	5,860	3,343
Native white—Mixed parentage.....	2,386	1,687	1,117	1,353	1,778	2,927	2,515	1,196	1,143	1,575	1,097
Foreign-born white.....	3,249	5,203	3,763	2,078	3,145	5,014	4,945	3,696	4,250	7,095	3,840
Male.....	1,394	2,402	1,998	1,011	1,536	2,522	2,336	2,082	2,416	4,322	2,021
Female.....	1,855	2,741	1,765	1,067	1,609	2,492	2,609	1,614	1,834	2,773	1,819
Negro.....	105	58	3	19	126	68	67	7	15	33	153
Male.....	52	28	1	8	61	41	31	6	9	17	78
Female.....	53	30	2	11	65	27	36	1	6	16	75
Indian, Chinese, Japanese, and all other.....	10	2	2	3	12	5	10	4	6	7	3
Per cent native white.....	81.5	65.3	72.0	80.7	79.0	77.0	77.1	63.6	66.1	63.5	69.4
Per cent foreign-born white.....	17.8	34.3	27.9	19.1	20.1	22.5	22.5	36.3	33.7	36.3	29.4
Per cent Negro.....	0.6	0.4	( <sup>1</sup> )	0.2	0.8	0.4	0.3	0.1	0.1	0.2	1.2
1910: Total population.....	15,715	11,448	13,055	9,866	14,949	22,019	19,431	8,807	8,014	15,721	12,141
Native white.....	12,501	6,994	8,694	7,839	11,842	15,881	14,470	5,406	5,406	10,353	8,272
Foreign-born white.....	3,091	4,501	4,331	1,097	3,007	6,046	4,880	3,560	2,555	5,341	3,722
Negro.....	110	11	28	20	98	88	75	2	18	21	145
Per cent native white.....	79.5	60.6	66.6	79.5	79.2	72.1	74.5	59.5	67.5	65.9	68.1
Per cent foreign-born white.....	19.7	39.3	33.2	20.2	20.1	27.5	25.1	40.4	31.9	34.0	30.7
Per cent Negro.....	0.7	0.1	0.2	0.3	0.7	0.4	0.4	( <sup>1</sup> )	0.2	0.1	1.2
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>											
Total under 7 years of age.....	2,224	2,118	2,131	1,347	1,905	2,031	2,710	1,475	2,116	3,075	1,769
Total 7 to 13 years, inclusive.....	2,170	2,183	2,005	1,273	1,801	2,032	2,557	1,328	1,718	2,209	1,755
Number attending school.....	2,122	2,084	1,950	1,248	1,737	2,058	2,419	1,290	1,697	2,116	1,691
Per cent attending school.....	97.8	95.5	97.3	98.0	96.4	97.3	91.6	97.1	98.8	87.8	96.4
Total 14 and 15 years.....	574	504	460	310	448	521	717	300	301	616	428
Number attending school.....	506	248	334	259	324	512	461	169	312	499	318
Per cent attending school.....	88.2	49.2	72.6	83.5	72.3	62.4	64.3	56.3	79.8	81.0	74.3
Total 16 and 17 years.....	559	499	512	335	495	933	700	379	351	544	417
Number attending school.....	341	93	155	101	209	294	269	79	147	259	149
Per cent attending school.....	61.0	18.6	30.3	57.0	42.2	28.3	35.4	20.8	41.9	47.1	35.0
Total 18 to 20 years, inclusive.....	845	759	672	484	685	1,227	1,008	500	494	708	619
Number attending school.....	201	71	100	134	115	160	181	50	97	132	81
Per cent attending school.....	23.8	9.4	14.9	27.7	16.8	13.0	18.0	10.0	19.6	16.5	13.1
Males 21 years of age and over.....	5,204	4,274	3,863	3,385	4,888	6,478	6,374	3,472	4,048	6,895	4,086
Native white—Native parentage.....	2,796	866	982	1,421	2,231	2,106	2,170	995	918	1,417	1,488
Native white—Foreign or mixed parentage.....	1,141	1,148	1,063	1,027	1,168	2,015	1,962	916	840	1,464	1,287
Foreign-born white.....	1,295	2,243	1,815	929	1,442	2,323	2,214	1,854	2,281	3,995	1,763
Naturalized.....	853	1,346	680	403	630	1,190	932	671	680	955	537
First papers.....	217	343	198	128	148	297	252	287	337	375	179
Alien.....	222	527	901	314	654	704	848	861	1,243	2,655	1,074
Unknown.....	3	27	59	24	10	132	132	35	21	10	3
Negro.....	27	15	1	5	39	20	20	4	4	12	55
Females 21 years of age and over.....	6,628	4,852	3,828	3,773	5,396	6,000	7,825	2,000	3,509	5,355	3,994
Native white—Native parentage.....	3,413	1,040	1,075	1,555	2,540	2,355	2,935	550	947	1,448	1,628
Native white—Foreign or mixed parentage.....	1,494	1,278	1,191	1,213	1,310	2,315	2,413	723	853	1,455	1,280
Foreign-born white.....	1,749	2,522	1,500	988	1,498	2,253	2,447	1,850	1,705	2,443	1,591
Naturalized.....	1,074	1,465	654	552	762	1,197	1,113	613	609	990	574
First papers.....	32	64	22	5	10	6	11	7	7	8	17
Alien.....	636	970	817	421	710	904	1,085	860	995	1,498	998
Unknown.....	7	33	67	10	7	146	238	106	44	7	2
Negro.....	30	12	2	7	38	37	29	1	4	9	49
Males 18 to 44 years, inclusive.....	3,248	2,909	2,623	2,122	3,132	4,320	4,141	2,447	3,012	5,058	2,933
Females 18 to 44 years, inclusive.....	4,041	3,330	2,601	2,371	3,214	4,792	5,023	1,936	2,667	3,836	2,582
<b>ILLITERACY.</b>											
Total 10 years of age and over.....	15,033	12,142	10,488	8,990	12,928	18,104	18,121	8,108	9,690	15,474	10,525
Number illiterate.....	78	389	899	209	365	878	970	751	943	1,196	826
Per cent illiterate.....	0.5	3.2	8.6	2.3	2.8	4.8	5.4	9.3	9.7	7.7	7.8
Per cent illiterate in 1910.....	0.8	3.8	4.7	1.4	4.8	5.4	4.2	7.4	4.9	8.0	8.0
Native white.....	11,728	6,941	6,771	6,924	9,604	13,066	13,151	4,498	5,469	8,464	6,627
Number illiterate.....	10	17	31	5	24	181	93	57	15	12	23
Per cent illiterate.....	0.1	0.2	0.5	0.1	0.2	1.2	0.5	1.3	0.3	0.1	0.3
Foreign-born white.....	3,212	5,167	3,712	2,048	3,121	4,947	4,901	3,600	4,203	6,077	3,768
Number illiterate.....	62	368	808	201	335	716	902	603	928	1,184	733
Per cent illiterate.....	1.9	7.1	23.4	9.8	10.7	14.5	18.4	19.3	22.1	17.0	20.8
Negro.....	85	42	3	15	102	80	59	6	12	26	127
Number illiterate.....	2	1	—	1	3	1	5	—	—	—	20
Per cent illiterate.....	—	—	—	—	2.9	—	—	—	—	—	15.7
Total 16 to 20 years, inclusive.....	1,404	1,258	1,184	819	1,180	2,160	1,768	879	845	1,342	1,033
Number illiterate.....	1	4	16	3	6	19	7	27	4	18	21
Per cent illiterate.....	0.1	0.3	1.4	0.4	0.5	0.9	0.4	3.1	0.5	1.3	2.0
Illiterate males 21 years of age and over.....	22	152	476	108	154	402	479	366	540	706	438
Per cent of all males 21 years of age and over.....	0.4	3.6	12.3	3.2	3.2	6.2	7.5	10.5	13.3	10.2	10.8
Native white.....	1	6	13	2	8	81	37	23	3	8	13
Foreign-born white.....	20	146	463	104	142	320	438	342	637	698	408
Negro.....	—	—	—	—	1	1	4	—	—	—	17
Illiterate females 21 years of age and over.....	50	228	406	96	202	453	481	342	398	470	363
Per cent of all females 21 years of age and over.....	0.8	4.7	10.6	2.6	3.7	6.5	6.1	12.9	11.3	8.8	9.1
Native white.....	6	8	14	—	12	71	22	28	9	2	8
Foreign-born white.....	41	219	392	95	189	382	458	318	387	468	352
Negro.....	2	1	—	1	1	—	1	—	—	—	3
<b>DWELLINGS AND FAMILIES.</b>											
Dwellings, number.....	3,966	3,047	2,336	2,328	3,434	3,908	3,980	1,707	2,026	3,006	2,304
Families, number.....	4,396	3,602	2,962	2,698	3,738	5,018	4,770	2,033	2,683	4,236	3,169

<sup>1</sup> Less than one-tenth of 1 per cent.



TABLE 10.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920—Continued.

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

	CITIES AND TOWNS OF 10,000 TO 25,000—continued.										
SUBJECT.	Saugus town.	South-bridge town.	Wake-field town.	Water-town town.	Webster town.	West Spring-field town.	West-field town.	Wey-mouth town.	Win-chester town.	Win-throp town.	Wo-burn city.
COLOR OR RACE, NATIVITY, AND SEX.											
Total population.....	10,874	14,245	13,025	21,457	13,258	13,443	18,604	15,057	10,485	15,455	16,574
Male.....	5,372	7,202	6,192	10,539	6,552	6,721	9,298	7,441	4,817	7,370	8,272
Female.....	5,502	7,043	6,833	10,918	6,706	6,722	9,306	7,616	5,668	8,085	8,302
Native white.....	8,381	10,055	9,693	15,626	9,509	10,415	14,027	12,346	8,087	12,102	12,350
Male.....	4,181	4,921	4,598	7,610	4,040	5,162	6,903	6,065	3,765	5,874	6,079
Female.....	4,200	5,134	5,095	8,016	4,869	5,253	7,124	6,281	4,322	6,228	6,271
Native white—Native parentage.....	4,495	5,362	4,743	7,139	2,675	5,549	6,511	7,517	4,695	6,799	5,137
Native white—Foreign parentage.....	2,461	4,238	3,481	6,116	5,279	3,344	5,987	3,062	2,339	3,197	5,376
Native white—Mixed parentage.....	1,425	2,155	1,469	2,371	1,655	1,522	1,529	1,767	1,053	2,106	1,837
Foreign-born white.....	2,450	4,167	3,312	5,792	3,731	2,880	4,543	2,677	2,169	3,238	3,927
Male.....	1,187	2,267	1,585	2,915	1,901	1,433	2,378	1,354	958	1,445	2,037
Female.....	1,283	1,900	1,727	2,877	1,830	1,397	2,165	1,323	1,211	1,793	1,890
Negro.....	40	15	20	34	15	148	81	29	227	109	286
Male.....	21	9	9	9	8	76	14	17	92	45	146
Female.....	19	6	11	25	7	72	17	12	135	64	140
Indian, Chinese, Japanese, and all other.....	3	8	—	5	3	—	3	5	2	6	11
Per cent native white.....	77.1	70.6	74.4	72.8	71.7	77.5	75.4	82.0	77.1	78.3	74.5
Per cent foreign-born white.....	22.5	29.3	25.4	27.0	28.1	21.4	24.4	17.8	20.7	21.0	23.7
Per cent Negro.....	0.4	0.1	0.2	0.2	0.1	1.1	0.2	0.2	2.2	0.7	1.7
1910: Total population.....	8,047	12,592	11,404	12,875	11,509	9,224	16,044	12,895	9,309	10,132	15,308
Native white.....	6,240	8,255	8,243	8,769	7,378	7,101	11,590	10,552	6,540	7,987	11,022
Foreign-born white.....	1,750	4,315	3,128	4,057	4,096	2,100	4,401	2,312	2,486	2,093	4,030
Negro.....	55	17	31	44	16	21	40	26	281	47	242
Per cent native white.....	77.5	65.6	72.3	68.1	64.1	77.0	72.3	81.8	70.3	78.8	72.0
Per cent foreign-born white.....	21.7	34.3	27.4	31.5	35.6	22.8	27.4	17.9	26.7	20.7	26.4
Per cent Negro.....	0.7	0.1	0.3	0.3	0.1	0.2	0.2	0.2	3.0	0.5	1.6
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.											
Total under 7 years of age.....	1,718	2,176	1,940	3,068	2,187	2,127	3,169	2,017	1,415	1,733	2,400
Total 7 to 13 years, inclusive.....	1,678	1,858	1,657	2,628	2,124	1,816	2,775	1,845	1,322	1,651	2,285
Number attending school.....	1,630	1,831	1,637	2,568	2,070	1,794	2,676	1,824	1,288	1,594	2,238
Per cent attending school.....	97.6	98.5	98.8	97.7	97.5	98.8	96.4	98.9	97.4	96.5	97.9
Total 14 and 15 years.....	395	438	386	673	554	450	625	465	327	410	581
Number attending school.....	313	299	324	582	242	340	434	349	283	392	478
Per cent attending school.....	79.2	47.7	83.9	86.5	43.7	75.6	69.4	76.1	86.5	95.6	82.3
Total 16 and 17 years.....	372	506	402	677	535	417	548	429	300	430	566
Number attending school.....	146	114	219	371	89	173	186	170	184	292	297
Per cent attending school.....	39.2	22.5	54.5	54.8	16.6	41.5	33.9	39.6	61.3	67.9	52.5
Total 18 to 20 years, inclusive.....	478	756	588	989	691	614	719	608	445	797	808
Number attending school.....	70	51	139	199	53	106	119	84	136	165	143
Per cent attending school.....	14.6	6.7	23.6	20.1	7.7	17.3	16.6	13.8	30.6	20.7	17.7
Males 21 years of age and over.....	3,033	4,298	3,777	6,500	3,550	3,953	5,392	4,760	2,958	4,855	4,012
Native white—Native parentage.....	1,287	802	1,421	2,099	1,583	1,528	1,918	2,337	1,308	2,088	1,193
Native white—Foreign or mixed parentage.....	1,554	1,385	911	1,689	1,148	1,036	1,237	1,164	718	1,370	1,710
Foreign-born white.....	1,076	2,043	1,439	2,704	1,812	1,341	2,226	1,243	878	1,367	1,912
Naturalized.....	593	709	688	1,251	731	531	649	565	425	996	933
First papers.....	194	177	219	391	245	254	394	355	128	153	185
Alien.....	280	1,132	526	1,049	799	549	1,143	316	318	197	701
Unknown.....	9	25	6	13	37	7	40	7	7	21	3
Negro.....	13	4	6	3	4	51	8	11	52	24	88
Females 21 years of age and over.....	3,202	4,213	4,275	6,922	3,617	4,063	5,376	4,933	3,718	5,579	5,022
Native white—Native parentage.....	1,270	923	1,594	2,200	1,636	1,601	2,113	2,427	1,667	2,200	1,375
Native white—Foreign or mixed parentage.....	761	1,590	1,091	2,043	1,249	1,143	1,231	1,258	846	1,063	1,777
Foreign-born white.....	1,159	1,695	1,583	2,659	1,727	1,273	2,022	1,240	1,121	1,678	1,791
Naturalized.....	709	781	1,403	730	599	599	735	744	612	1,116	1,026
First papers.....	10	7	7	55	5	16	17	36	19	8	18
Alien.....	429	990	772	1,183	932	647	1,185	448	585	470	741
Unknown.....	11	55	23	18	60	11	85	12	5	84	6
Negro.....	12	4	7	20	5	46	10	8	84	38	78
Males 18 to 44 years, inclusive.....	1,937	3,199	2,476	4,804	2,549	2,903	3,601	2,910	1,905	3,428	3,292
Females 18 to 44 years, inclusive.....	2,138	3,195	2,766	4,920	2,677	2,918	3,666	3,051	2,430	3,818	3,378
ILLITERACY.											
Total 10 years of age and over.....	8,401	11,218	10,329	17,224	10,154	10,509	14,173	12,233	8,511	13,081	13,162
Number illiterate.....	240	807	378	341	626	576	895	302	340	102	637
Per cent illiterate.....	2.9	7.2	3.7	2.0	6.2	5.5	6.3	2.5	4.0	0.8	4.8
Per cent illiterate in 1910.....	2.0	8.3	1.9	3.9	6.6	4.2	12.8	2.6	2.7	0.2	4.6
Native white.....	5,959	7,139	7,036	11,480	6,424	7,567	9,638	9,562	6,207	9,748	9,045
Number illiterate.....	11	68	7	10	29	26	31	11	7	8	15
Per cent illiterate.....	0.2	1.0	0.1	0.1	0.5	0.3	0.3	0.1	0.1	(1)	0.2
Foreign-born white.....	2,406	4,064	3,273	5,710	3,712	2,821	4,502	2,641	2,129	3,215	3,875
Number illiterate.....	229	739	371	331	597	528	862	289	331	88	615
Per cent illiterate.....	9.5	18.2	11.3	5.8	16.1	18.7	19.1	10.9	15.5	2.7	15.9
Negro.....	33	10	20	29	15	121	30	25	173	92	232
Number illiterate.....	—	—	—	—	—	22	2	2	1	8	5
Per cent illiterate.....	—	—	—	—	—	18.2	—	—	0.6	—	2.2
Total 16 to 20 years, inclusive.....	850	1,262	990	1,666	1,226	1,031	1,267	1,037	745	1,227	1,374
Number illiterate.....	2	19	4	9	3	8	6	5	23	1	9
Per cent illiterate.....	0.2	1.5	0.4	0.5	0.2	0.8	0.5	0.5	3.1	0.1	0.7
Illiterate males 21 years of age and over.....	100	405	169	140	294	259	375	144	176	32	345
Per cent of all males 21 years of age and over.....	3.3	9.4	4.5	2.2	8.3	6.5	7.0	3.0	5.9	0.7	7.0
Native white.....	4	22	2	4	13	11	14	5	3	2	6
Foreign-born white.....	96	383	167	136	281	240	360	138	171	27	334
Negro.....	—	—	—	—	—	8	1	1	1	—	3
Illiterate females 21 years of age and over.....	136	378	204	191	327	309	512	152	137	69	281
Per cent of all females 21 years of age and over.....	4.2	9.0	4.8	2.8	9.0	7.6	9.5	3.1	3.7	1.2	5.6
Native white.....	3	39	3	3	14	14	13	3	1	1	6
Foreign-born white.....	133	339	201	188	313	281	498	148	136	60	274
Negro.....	—	—	—	—	—	14	1	1	—	8	1
DWELLINGS AND FAMILIES.											
Dwellings, number.....	2,254	1,790	2,446	3,792	1,544	2,561	3,170	3,415	2,215	2,805	3,234
Families, number.....	2,504	3,003	3,015	4,664	2,766	3,114	4,211	3,716	2,381	3,760	3,572

1 Less than one-tenth of 1 per cent.



## COMPOSITION AND CHARACTERISTICS.

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TABLE 11.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR TOWNS OF 2,500 TO 10,000: 1920.

SUBJECT.	Abing- ton.	Acush- net.	Agaw- am.	Am- herst.	An- dover.	Athol.	An- burn.	Ayer.	Barn- stable.	Barre.	Bil- lerica.	Black- stone.	Bourne.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>													
Total population.....	5,787	3,075	5,023	5,550	8,288	9,792	3,891	3,052	4,836	3,357	3,646	4,299	2,530
Male.....	2,814	1,569	2,569	2,620	3,805	4,939	2,019	1,508	2,382	1,766	1,791	2,124	1,241
Female.....	2,973	1,506	2,454	2,930	4,483	4,853	1,872	1,544	2,454	1,591	1,855	2,175	1,289
Native white—Native parentage.....	3,364	833	1,896	3,276	2,933	5,108	1,368	1,454	3,172	1,104	1,438	1,092	1,374
Native white—Foreign or mixed parentage.....	1,568	1,309	1,053	1,400	2,936	2,778	1,641	1,002	879	1,085	1,345	2,040	524
Foreign-born white.....	836	918	1,151	696	2,297	1,902	873	578	628	1,075	860	1,150	438
Negro.....	14	15	23	173	100	1	8	17	148	1	1	17	167
Indian, Chinese, Japanese, and all other.....	5			5	2	5	1	1	9	1	2		37
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>													
Total under 7 years of age.....	689	602	876	712	998	1,438	665	350	619	613	534	670	369
Total 7 to 13 years, inclusive.....	693	531	802	688	1,008	1,182	637	348	558	452	407	584	392
Number attending school.....	682	520	784	628	972	1,155	606	340	508	411	403	562	387
Total 14 and 15 years.....	173	128	195	180	275	308	188	88	143	98	130	170	78
Number attending school.....	139	78	153	157	194	215	106	83	120	46	110	89	74
Total 16 to 20 years, inclusive.....	411	252	395	426	629	759	300	228	300	209	204	428	160
Number attending school.....	141	35	97	219	196	180	68	83	121	41	77	63	67
Males 21 years of age and over.....	1,832	792	1,396	1,612	2,391	3,055	1,082	1,013	1,534	1,061	1,090	1,187	775
Native white—Native parentage.....	1,069	244	518	1,003	826	1,002	331	472	1,080	382	419	243	452
Native white—Foreign or mixed parentage.....	390	135	347	272	625	556	333	282	145	104	300	414	67
Foreign-born white.....	365	408	526	290	915	893	416	255	260	514	368	524	194
Naturalized.....	148	105	185	95	539	283	211	118	94	77	228	180	54
Negro.....	5	5	5	45	23	1	1	3	47		1	6	51
Females 21 years of age and over.....	1,989	772	1,359	1,952	2,667	3,065	1,039	1,025	1,632	924	1,161	1,260	780
Native white—Native parentage.....	1,130	247	500	1,200	988	1,089	203	476	1,169	368	394	254	471
Native white—Foreign or mixed parentage.....	1,440	118	362	340	772	551	342	285	175	156	384	485	82
Foreign-born white.....	413	405	491	356	1,171	809	403	258	300	309	433	607	102
Naturalized.....	221	121	213	150	607	331	214	175	167	113	200	103	80
Negro.....	6	2	6	53	36		1	6	28	1		3	32
<b>ILLITERACY.</b>													
Total 10 years of age and over.....	4,769	2,226	3,804	4,562	6,839	7,819	2,927	2,539	3,978	2,534	2,923	3,370	1,093
Number illiterate.....	51	160	223	157	103	262	76	46	94	252	33	261	78
Native whites 10 years of age and over.....	3,024	1,317	2,656	3,722	4,486	5,045	2,060	1,962	3,251	1,485	2,064	2,224	1,421
Number illiterate.....	5	9	20	6	5	12	13	13	9	19	3	36	5
Foreign-born whites 10 years of age and over.....	831	902	1,126	689	2,270	1,868	861	560	617	1,047	856	1,133	422
Number illiterate.....	45	157	203	142	92	248	63	33	64	233	20	320	28
Illiterate males 21 years of age and over.....	20	81	107	67	44	112	38	33	47	128	15	100	42
Illiterate females 21 years of age and over.....	30	82	114	90	58	143	33	12	42	122	17	186	34
<b>DWELLINGS AND FAMILIES.</b>													
Dwellings, number.....	1,287	566	995	1,214	1,715	1,952	797	636	1,340	679	771	661	668
Families, number.....	1,477	631	1,088	1,369	1,909	2,354	844	793	1,392	720	880	937	682
SUBJECT.	Bridge- water.	Canton.	Chelms- ford.	Co- hasset.	Con- cord.	Dalton.	Dart- mouth.	Deer- field.	Digh- ton.	Dra- cut.	Dud- ley.	East Bridge- water.	Easton.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>													
Total population.....	8,438	5,945	5,682	2,639	6,461	3,752	6,493	2,803	2,574	5,280	3,701	3,488	5,041
Male.....	4,945	3,013	2,839	1,274	3,238	1,834	3,287	1,445	1,330	2,615	1,873	1,760	2,464
Female.....	3,493	2,932	2,843	1,365	3,223	1,918	3,206	1,358	1,244	2,665	1,828	1,728	2,587
Native white—Native parentage.....	3,218	2,058	2,014	1,264	2,621	2,237	1,936	1,111	1,040	1,265	780	1,833	2,129
Native white—Foreign or mixed parentage.....	2,735	2,374	2,240	852	2,270	1,094	2,429	1,124	899	2,436	1,016	1,014	1,798
Foreign-born white.....	2,406	1,405	1,428	484	1,538	381	2,073	568	624	1,575	989	582	1,111
Negro.....	71	45		38	28	39	55		11	4	14	2	5
Indian, Chinese, Japanese, and all other.....	8	3		1	4	1					2	5	1
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>													
Total under 7 years of age.....	1,133	685	732	352	777	454	1,142	525	465	956	734	466	501
Total 7 to 13 years, inclusive.....	971	884	790	299	775	454	1,070	441	404	818	666	467	693
Number attending school.....	950	854	779	293	744	438	1,010	421	398	796	640	456	676
Total 14 and 15 years.....	189	188	239	99	201	134	235	88	79	199	184	123	109
Number attending school.....	153	162	191	94	183	97	114	54	45	104	54	98	134
Total 16 to 20 years, inclusive.....	514	484	433	185	693	307	496	195	169	402	315	264	432
Number attending school.....	149	157	114	63	408	87	59	56	25	47	22	83	140
Males 21 years of age and over.....	3,495	1,876	1,679	803	1,922	1,147	1,791	803	758	1,425	922	1,074	1,506
Native white—Native parentage.....	1,157	536	585	371	711	599	626	372	338	341	162	570	604
Native white—Foreign or mixed parentage.....	1,789	588	436	205	531	373	247	143	111	348	266	225	392
Foreign-born white.....	1,496	737	658	210	660	167	897	288	304	734	400	276	508
Naturalized.....	320	294	381	118	290	84	238	47	87	307	143	120	286
Negro.....	46	12		16	16	7	21		5	2	3	2	1
Females 21 years of age and over.....	2,136	1,828	1,809	901	2,093	1,256	1,759	751	699	1,480	910	1,092	1,650
Native white—Native parentage.....	925	563	654	425	853	638	612	300	308	333	202	590	648
Native white—Foreign or mixed parentage.....	1,403	653	485	207	499	401	259	144	134	404	251	244	406
Foreign-born white.....	737	602	670	253	738	208	876	247	255	742	454	258	535
Naturalized.....	242	307	400	166	340	129	261	53	76	324	126	126	323
Negro.....	10	10		10	3	9	12		2	1	2		1
<b>ILLITERACY.</b>													
Total 10 years of age and over.....	6,869	4,895	4,628	2,162	5,358	3,107	4,861	2,084	1,930	3,960	2,683	2,824	4,140
Number illiterate.....	569	215	134	61	153	44	694	173	208	97	234	55	63
Native whites 10 years of age and over.....	4,418	3,418	3,216	1,644	3,904	2,700	2,796	1,408	1,312	2,402	1,085	2,249	3,038
Number illiterate.....	70	8	15	3	15	13	17	4	2	3	15	8	
Foreign-born whites 10 years of age and over.....	2,376	1,448	1,412	483	1,522	380	2,021	566	611	1,554	980	570	1,099
Number illiterate.....	487	202	119	58	135	29	659	169	266	94	210	50	63
Illiterate males 21 years of age and over.....	381	121	60	30	76	22	351	68	133	84	94	31	33
Illiterate females 21 years of age and over.....	183	90	70	30	74	22	319	102	132	60	140	24	28
<b>DWELLINGS AND FAMILIES.</b>													
Dwellings, number.....	1,311	1,163	1,226	648	1,318	866	1,288	550	524	1,088	485	810	1,150
Families, number.....	1,573	1,212	1,359	667	1,357	910	1,426	610	618	1,156	739	803	1,201



TABLE 11.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR TOWNS OF 2,500 TO 10,000: 1920—Continued.

SUBJECT.	Fairhaven.	Falmouth.	Foxborough.	Franklin.	Grafton.	Great Barrington.	Groveland.	Hadley.	Hanover.	Hardwick.	Harvard.	Hatfield.	Hingham.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>													
Total population.....	7,291	3,500	4,136	6,497	6,887	6,315	2,650	2,784	2,575	3,085	2,546	2,651	5,604
Male.....	3,484	1,757	1,945	3,287	3,369	3,044	1,301	1,428	1,339	1,558	1,904	1,407	2,951
Female.....	3,807	1,743	2,191	3,210	3,518	3,271	1,349	1,356	1,236	1,527	552	1,244	2,653
Native white—Native parentage.....	2,873	1,759	2,139	2,327	2,355	3,016	1,581	659	1,495	713	1,391	646	2,884
Native white—Foreign or mixed parentage.....	2,537	921	1,138	2,488	2,375	2,033	733	1,308	563	1,359	693	1,191	1,728
Foreign-born white.....	1,826	632	825	1,673	2,041	1,180	328	816	433	1,013	441	814	903
Negro.....	55	181	32	7	116	82	8	1	84	16	16	73	73
Indian, Chinese, Japanese, and all other.....	7	2	2	2	4	4	4	4	4	4	4	4	16
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>													
Total under 7 years of age.....	1,136	509	439	925	805	877	301	693	334	549	118	600	508
Total 7 to 13 years, inclusive.....	1,023	487	480	919	652	857	323	410	250	464	95	378	562
Number attending school.....	993	452	456	809	640	844	307	393	247	448	95	370	543
Total 14 and 15 years.....	252	134	120	228	184	211	89	98	58	113	27	105	160
Number attending school.....	158	108	105	175	101	174	65	80	46	65	25	67	143
Total 16 to 20 years, inclusive.....	586	230	270	488	445	460	207	156	156	202	297	176	612
Number attending school.....	119	85	91	136	76	148	50	62	43	40	28	29	176
Males 21 years of age and over.....	2,014	1,070	1,293	1,994	2,326	1,844	837	34	894	892	1,596	757	1,861
Native white—Native parentage.....	861	637	647	660	770	862	492	112	503	219	839	148	990
Native white—Foreign or mixed parentage.....	330	112	280	482	619	425	205	124	129	174	428	152	480
Foreign-born white.....	807	270	360	849	893	534	136	398	211	499	321	457	351
Naturalized.....	323	92	127	325	234	183	83	39	64	162	207	39	208
Negro.....	16	50	5	2	35	20	4	46	46	8	8	30	30
Females 21 years of age and over.....	2,280	1,070	1,534	1,943	2,475	2,066	893	693	883	865	413	635	1,841
Native white—Native parentage.....	976	598	798	742	820	948	502	215	551	180	245	158	933
Native white—Foreign or mixed parentage.....	466	124	312	508	628	512	221	107	119	224	82	153	400
Foreign-born white.....	817	304	412	696	983	572	169	371	199	452	31	324	493
Naturalized.....	340	133	174	311	305	229	109	46	98	140	40	41	294
Negro.....	21	40	12	2	44	33	1	14	14	5	5	15	15
<b>ILLITERACY.</b>													
Total 10 years of age and over.....	5,702	2,773	3,487	5,180	5,779	5,048	2,200	1,904	2,127	2,329	2,382	1,882	4,789
Number illiterate.....	398	234	33	286	500	163	6	181	101	45	69	238	52
Native whites 10 years of age and over.....	3,865	2,035	2,645	3,510	3,678	3,808	1,869	1,093	1,632	1,323	1,926	1,074	3,812
Number illiterate.....	20	4	5	17	147	5	2	3	3	1	50	1	2
Foreign-born whites 10 years of age and over.....	1,795	621	818	1,661	2,011	1,163	324	811	426	1,006	441	808	896
Number illiterate.....	374	192	31	269	329	152	8	178	79	44	16	237	50
Illiterate males 21 years of age and over.....	180	117	11	123	205	68	2	79	59	24	57	119	24
Illiterate females 21 years of age and over.....	208	112	21	159	222	93	2	101	42	21	11	118	27
<b>DWELLINGS AND FAMILIES.</b>													
Dwellings, number.....	1,411	864	887	1,202	954	1,400	608	488	663	578	272	436	1,174
Families, number.....	1,702	898	967	1,477	1,256	1,565	664	598	718	597	291	521	1,262

SUBJECT.	Holbrook.	Holden.	Holliston.	Hopkinton.	Hudson.	Ipswich.	Kings- ton.	Lee.	Leicester.	Lenox.	Lexing- ton.	Long- mead- ow.	Lud- low.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>													
Total population.....	3,161	2,970	2,707	2,777	7,607	6,201	2,505	4,085	3,635	2,691	6,350	2,618	7,470
Male.....	1,550	1,543	1,301	1,452	3,817	3,004	1,203	2,096	1,850	1,339	3,037	1,224	3,643
Female.....	1,611	1,427	1,406	1,325	3,790	3,197	1,242	1,989	1,785	1,352	3,313	1,394	3,827
Native white—Native parentage.....	1,817	1,262	1,504	1,428	2,783	1,874	1,047	1,903	1,410	992	2,722	1,653	1,375
Native white—Foreign or mixed parentage.....	919	1,047	778	822	2,663	2,131	826	1,391	1,493	1,035	2,254	602	2,844
Foreign-born white.....	419	654	419	627	2,141	2,182	626	756	726	611	1,342	349	3,249
Negro.....	4	7	5	17	17	12	6	34	6	53	29	13	2
Indian, Chinese, Japanese, and all other.....	2	1	1	3	3	2	1	1	1	3	3	1	2
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>													
Total under 7 years of age.....	424	425	315	393	985	1,064	292	547	465	316	960	384	1,522
Total 7 to 13 years, inclusive.....	368	394	304	332	819	733	355	526	490	380	864	325	1,048
Number attending school.....	367	387	291	320	806	724	348	485	483	370	847	319	1,003
Total 14 and 15 years.....	98	96	99	67	232	157	75	136	130	90	206	61	265
Number attending school.....	82	89	71	49	141	117	45	113	94	83	185	59	107
Total 16 to 20 years, inclusive.....	246	238	180	180	623	467	101	297	283	235	405	150	592
Number attending school.....	71	59	47	57	127	124	48	103	59	82	171	65	36
Males 21 years of age and over.....	969	949	850	938	2,505	1,817	792	1,312	1,132	806	1,816	781	1,948
Native white—Native parentage.....	553	345	469	454	839	622	333	541	874	208	770	479	363
Native white—Foreign or mixed parentage.....	213	257	193	226	606	265	139	380	394	253	466	155	259
Foreign-born white.....	199	342	182	258	1,048	924	311	382	363	274	572	145	1,324
Naturalized.....	96	125	88	123	289	200	112	113	164	140	279	91	208
Negro.....	2	6	1	10	5	4	4	8	1	11	7	2	2
Females 21 years of age and over.....	1,056	868	959	867	2,443	1,963	800	1,267	1,135	864	2,099	917	2,095
Native white—Native parentage.....	588	373	513	451	894	678	401	552	410	292	890	545	845
Native white—Foreign or mixed parentage.....	263	217	244	192	666	276	137	412	408	254	489	190	264
Foreign-born white.....	203	271	201	224	879	1,002	260	294	315	295	703	172	1,486
Naturalized.....	144	112	132	121	328	283	123	126	176	164	348	99	305
Negro.....	2	2	1	3	7	2	2	9	2	23	16	9	9
<b>ILLITERACY.</b>													
Total 10 years of age and over.....	2,564	2,376	2,284	2,219	6,248	4,794	2,049	3,305	2,970	2,214	5,006	2,091	5,458
Number illiterate.....	23	166	74	40	433	497	120	46	56	31	131	6	872
Native whites 10 years of age and over.....	2,144	1,718	1,844	1,698	4,129	2,632	1,428	2,541	2,250	1,571	3,651	1,731	2,262
Number illiterate.....	3	7	4	6	11	6	8	17	4	2	12	1	83
Foreign-born whites 10 years of age and over.....	414	651	414	521	2,100	2,148	617	736	716	601	1,327	346	3,194
Number illiterate.....	25	156	69	34	422	490	110	28	52	29	117	5	789
Illiterate males 21 years of age and over.....	15	91	37	18	197	176	68	20	38	16	58	3	314
Illiterate females 21 years of age and over.....	13	75	37	22	221	306	52	25	22	13	72	3	513
<b>DWELLINGS AND FAMILIES.</b>													
Dwellings, number.....	717	547	674	664	1,412	1,119	607	883	756	577	1,317	639	1,135
Families, number.....	816	666	744	688	1,792	1,375	657	904	838	698	1,435	667	1,197



## COMPOSITION AND CHARACTERISTICS.

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TABLE 11.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR TOWNS OF 2,500 TO 10,000: 1920—Continued.

SUBJECT.	Mans- field.	Marble- head.	May- nard.	Med- field.	Med- way.	Middle- bor- ough.	Mill- bury.	Milton.	Mon- son.	Mon- tague.	Nan- tucket.	Need- ham.	North An- dover.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>													
Total population.....	6,255	7,324	7,088	3,595	2,956	8,453	5,653	9,382	4,826	7,675	2,797	7,012	6,265
Male.....	3,203	3,422	3,706	1,584	1,432	4,126	2,826	4,194	2,378	3,846	1,315	3,371	3,061
Female.....	3,052	3,902	3,380	2,011	1,524	4,327	2,827	5,188	2,448	3,829	1,482	3,641	3,204
Native white—Native parentage.....	3,004	4,931	961	1,637	1,240	4,585	1,995	4,251	2,211	2,310	1,743	2,596	1,710
Native white—Foreign or mixed parentage.....	1,958	1,802	3,155	786	1,041	2,360	2,409	3,026	1,754	3,490	614	2,592	2,650
Foreign-born white.....	1,281	781	2,966	1,112	673	1,448	1,248	2,060	829	1,872	323	1,806	1,904
Negro.....	12	7	4	55	2	44	1	32	80	1	112	17	1
Indian, Chinese, Japanese, and all other.....	3	3	4	5	16	1	7	2	2	2	5	1	1
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>													
Total under 7 years of age.....	895	757	1,142	206	339	1,157	770	1,082	479	1,260	312	990	834
Total 7 to 13 years, inclusive.....	772	783	1,020	180	355	978	754	1,101	531	1,060	320	952	801
Number attending school.....	758	763	1,010	175	349	936	715	1,067	441	1,029	309	918	784
Total 14 and 15 years.....	181	208	217	55	97	237	211	203	184	247	74	210	202
Number attending school.....	131	187	151	46	64	162	156	277	115	158	63	179	126
Total 16 to 20 years, inclusive.....	459	478	434	150	225	656	545	711	418	619	152	501	503
Number attending school.....	139	211	88	57	54	141	117	342	93	130	63	175	132
Males 21 years of age and over.....	2,034	2,331	2,250	1,283	916	2,570	1,098	2,643	1,573	2,265	880	2,030	1,896
Native white—Native parentage.....	977	1,627	280	572	361	1,422	541	1,164	697	667	595	702	466
Native white—Foreign or mixed parentage.....	439	438	478	257	245	469	572	754	480	686	124	581	589
Foreign-born white.....	614	261	1,482	428	310	652	585	709	383	810	125	790	840
Naturalized.....	210	166	417	94	108	238	242	488	154	299	70	363	514
Negro.....	4	2	21	21	12	12	13	13	12	34	6	6	6
Females 21 years of age and over.....	1,914	2,767	2,023	1,721	1,024	2,855	1,675	3,552	1,641	2,224	1,059	2,329	2,029
Native white—Native parentage.....	949	1,724	232	777	451	1,617	504	1,418	729	638	669	816	484
Native white—Foreign or mixed parentage.....	431	540	520	261	268	550	618	917	509	721	183	627	641
Foreign-born white.....	529	500	1,271	658	304	673	553	1,273	394	894	183	881	904
Naturalized.....	225	354	428	111	146	327	260	589	166	359	116	423	525
Negro.....	5	3	25	25	11	11	11	11	8	33	5	5	5
<b>ILLITERACY.</b>													
Total 10 years of age and over.....	5,028	6,241	5,496	3,300	2,467	6,867	4,565	7,857	4,129	5,940	2,352	5,593	5,102
Number illiterate.....	170	55	423	374	236	174	58	17	273	336	49	74	101
Native whites 10 years of age and over.....	3,758	5,454	2,570	2,137	1,800	5,397	3,340	5,770	3,275	4,083	1,945	3,786	3,214
Number illiterate.....	4	31	7	64	16	22	5	3	186	15	4	4	6
Foreign-born whites 10 years of age and over.....	1,256	777	2,922	1,108	665	1,429	1,224	2,053	825	1,854	321	1,789	1,857
Number illiterate.....	166	24	416	290	219	145	53	14	82	321	28	71	95
Illiterate males 21 years of age and over.....	83	25	195	234	116	73	32	4	80	152	22	32	38
Illiterate females 21 years of age and over.....	86	20	222	139	116	97	24	12	90	175	26	41	61
<b>DWELLINGS AND FAMILIES.</b>													
Dwellings, number.....	1,410	1,598	1,292	385	697	1,892	959	1,916	761	1,285	794	1,538	1,318
Families, number.....	1,647	2,046	1,540	441	773	2,183	1,251	2,167	925	1,727	879	1,696	1,437

SUBJECT.	North Attle- borough.	North Brook- field.	Orange.	Ox- ford.	Palmer.	Provi- dence- town.	Ran- dolph.	Read- ing.	Rock- land.	Rock- port.	Scit- uate.	See- konk.	Shrews- bury.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>													
Total population.....	9,238	2,610	5,393	3,820	9,896	4,246	4,756	7,439	7,544	3,878	2,534	2,698	3,708
Male.....	4,538	1,202	2,663	1,893	4,834	2,127	2,292	3,575	3,684	1,932	1,214	1,473	1,826
Female.....	4,700	1,408	2,730	1,927	4,962	2,119	2,464	3,864	3,860	1,946	1,320	1,425	1,882
Native white—Native parentage.....	3,476	1,304	3,402	1,726	2,557	1,263	2,160	4,090	3,938	1,617	1,566	1,130	1,647
Native white—Foreign or mixed parentage.....	3,753	880	1,218	1,350	4,573	1,890	1,839	2,138	2,515	1,389	587	1,049	1,300
Foreign-born white.....	1,953	401	771	739	2,722	1,035	741	1,203	1,063	870	335	654	758
Negro.....	50	24	2	4	42	56	15	3	26	1	44	65	3
Indian, Chinese, Japanese, and all other.....	6	1	2	1	2	2	1	5	2	1	2	2	2
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>													
Total under 7 years of age.....	1,150	319	646	552	1,891	582	632	878	880	456	250	430	644
Total 7 to 13 years, inclusive.....	1,133	328	646	521	1,612	581	690	940	901	551	281	435	506
Number attending school.....	1,116	312	623	491	1,524	644	669	928	882	535	277	426	487
Total 14 and 15 years.....	286	96	173	170	355	146	189	218	230	137	88	119	109
Number attending school.....	205	74	142	92	208	100	141	187	178	105	85	82	77
Total 16 to 20 years, inclusive.....	682	176	371	317	736	358	343	555	553	311	189	220	200
Number attending school.....	185	55	110	40	158	65	93	201	144	107	86	49	54
Males 21 years of age and over.....	2,879	752	1,716	1,124	2,672	1,224	1,364	2,238	2,414	1,185	823	843	1,102
Native white—Native parentage.....	990	357	1,076	508	681	320	568	1,248	1,190	513	518	351	518
Native white—Foreign or mixed parentage.....	1,005	219	250	288	646	408	468	496	728	261	146	164	225
Foreign-born white.....	864	170	388	327	1,327	479	322	489	486	409	144	314	359
Naturalized.....	487	76	212	79	367	173	178	200	270	215	65	92	137
Negro.....	14	5	1	1	16	16	5	9	9	1	14	14	14
Females 21 years of age and over.....	3,108	939	1,841	1,136	2,630	1,255	1,538	2,609	2,566	1,238	903	851	1,147
Native white—Native parentage.....	1,064	425	1,211	492	710	364	605	1,449	1,271	522	565	361	513
Native white—Foreign or mixed parentage.....	1,058	291	273	313	704	418	557	537	778	286	158	189	282
Foreign-born white.....	966	216	357	327	1,209	459	371	621	508	430	167	289	350
Naturalized.....	611	112	203	126	403	207	236	301	313	265	106	114	163
Negro.....	20	7	3	3	7	13	5	2	9	1	12	12	12
<b>ILLITERACY.</b>													
Total 10 years of age and over.....	7,808	2,154	4,483	3,037	7,257	3,382	3,813	6,151	6,276	3,181	2,174	2,296	2,814
Number illiterate.....	210	101	77	198	712	376	33	85	71	150	23	168	114
Native whites 10 years of age and over.....	5,616	1,737	3,712	2,308	4,529	2,335	3,065	4,964	5,197	2,314	1,805	1,600	2,087
Number illiterate.....	31	11	5	29	38	14	2	6	3	16	3	7	4
Foreign-born whites 10 years of age and over.....	1,987	397	769	724	2,695	1,010	733	1,189	1,056	855	332	651	754
Number illiterate.....	177	90	72	168	672	359	81	76	68	133	18	154	110
Illiterate males 21 years of age and over.....	87	39	39	109	331	208	11	41	33	62	15	98	61
Illiterate females 21 years of age and over.....	117	61	35	88	370	158	22	41	38	84	8	73	53
<b>DWELLINGS AND FAMILIES.</b>													
Dwellings, number.....	1,898	613	1,191	819	1,664	971	1,044	1,662	1,667	928	673	671	798
Families, number.....	2,282	708	1,509	914	2,029	1,104	1,146	1,859	1,872	1,058	702	695	917



TABLE 11.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR TOWNS OF 2,500 TO 10,000: 1920—Continued.

SUBJECT.	Somer- set.	South Hadley.	Spencer.	Stone- ham.	Stoughton.	Sutton.	Swamp- scott.	Tem- pleton.	Tewks- bury.	Ux- bridge.	Wal- pole.	Ware.	Ware- ham.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>													
Total population.....	3,520	5,527	5,980	7,873	6,885	2,578	8,101	4,019	4,450	5,384	5,446	8,525	4,415
Male.....	1,763	2,722	2,892	3,783	3,371	1,334	3,835	2,222	2,292	2,702	2,748	4,040	2,227
Female.....	1,757	2,805	3,088	4,090	3,494	1,244	4,266	1,797	2,158	2,682	2,698	4,485	2,188
Native white—Native parentage.....	1,109	1,629	2,833	3,897	2,788	891	4,176	2,067	1,571	2,063	2,287	1,887	2,157
Native white—Foreign or mixed parentage.....	1,507	2,502	2,109	2,534	2,465	1,039	2,348	1,225	1,197	2,135	1,935	4,069	1,154
Foreign-born white.....	900	1,393	891	1,396	1,592	641	1,553	718	1,639	1,179	1,210	2,566	822
Negro.....	4	2	5	45	16	7	17	9	39	5	12	2	280
Indian, Chinese, Japanese, and all other.....	1	1	2	1	4	.....	7	.....	4	2	2	1	2
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>													
Total under 7 years of age.....	542	834	693	958	898	395	1,020	513	441	833	857	1,342	747
Total 7 to 13 years, inclusive.....	563	786	687	973	857	398	980	610	422	671	825	1,332	600
Number attending school.....	544	775	660	949	838	384	950	492	402	632	815	1,290	584
Total 14 and 15 years.....	113	202	183	260	246	108	221	142	115	189	189	333	148
Number attending school.....	58	130	97	227	207	55	200	102	75	105	169	159	110
Total 16 to 20 years, inclusive.....	297	488	474	568	489	229	540	356	269	488	386	693	268
Number attending school.....	39	119	101	201	151	29	225	71	66	82	112	117	102
Males 21 years of age and over.....	958	1,567	1,871	2,377	2,095	749	2,444	1,341	1,687	1,681	1,633	2,217	1,348
Native white—Native parentage.....	336	444	681	1,111	770	248	1,322	683	470	580	707	453	700
Native white—Foreign or mixed parentage.....	213	487	757	648	536	195	501	286	317	486	336	619	168
Foreign-born white.....	406	633	429	606	779	300	608	365	882	580	585	1,144	399
Naturalized.....	140	287	168	344	303	101	350	93	303	211	198	445	91
Negro.....	3	2	2	11	6	6	7	7	14	3	3	.....	70
Females 21 years of age and over.....	1,047	1,650	2,022	2,737	2,180	699	2,896	1,057	1,516	1,572	1,556	2,608	1,304
Native white—Native parentage.....	360	447	790	1,281	866	263	1,463	585	539	570	651	547	703
Native white—Foreign or mixed parentage.....	271	541	815	756	614	175	611	196	284	497	361	798	189
Foreign-born white.....	415	662	414	687	696	270	814	276	688	504	543	1,263	356
Naturalized.....	156	349	196	401	313	97	444	86	160	195	242	438	121
Negro.....	1	.....	3	13	4	1	8	.....	5	1	1	.....	56
<b>ILLITERACY.</b>													
Total 10 years of age and over.....	2,735	4,359	4,951	6,517	5,478	2,000	6,656	3,245	3,819	4,280	4,221	6,593	3,387
Number illiterate.....	318	150	231	70	267	207	214	312	172	405	228	431	357
Native whites 10 years of age and over.....	1,839	2,977	4,063	5,090	3,886	1,368	5,099	2,529	2,155	3,090	3,015	4,065	2,402
Number illiterate.....	8	8	70	6	13	43	5	196	36	24	3	37	37
Foreign-born whites 10 years of age and over.....	892	1,379	881	1,387	1,575	625	1,534	707	1,627	1,158	1,103	2,527	810
Number illiterate.....	309	148	160	64	252	162	208	110	132	390	225	394	249
Illiterate males 21 years of age and over.....	150	73	109	32	123	111	96	197	61	210	123	195	170
Illiterate females 21 years of age and over.....	162	83	118	37	133	87	111	64	98	184	100	231	171
<b>DWELLINGS AND FAMILIES.</b>													
Dwellings, number.....	724	1,019	1,104	1,096	1,489	517	1,719	779	455	875	1,039	1,438	1,039
Families, number.....	797	1,255	1,567	1,917	1,622	571	1,979	874	477	1,194	1,174	1,771	1,126

SUBJECT.	Warren.	Welles- ley.	West Bridge- water.	West- bor- ough.	West- ford.	West- port.	Whit- man.	Wil- bra- ham.	Wil- liams- town.	Wil- ming- ton.	Win- chen- don.	Wren- tham.
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>												
Total population.....	3,467	6,224	2,908	5,789	3,170	3,115	7,147	2,780	3,707	2,581	5,904	2,808
Male.....	1,742	2,761	1,448	2,841	1,522	1,581	3,470	1,399	1,902	1,266	3,005	1,224
Female.....	1,725	3,463	1,460	2,948	1,648	1,534	3,677	1,411	1,805	1,315	2,899	1,584
Native white—Native parentage.....	1,150	2,870	1,434	2,887	842	1,458	4,054	798	2,181	1,120	2,622	1,496
Native white—Foreign or mixed parentage.....	1,451	1,984	917	1,809	1,194	966	2,601	1,085	953	895	2,068	879
Foreign-born white.....	865	1,390	556	1,047	1,134	677	1,045	895	478	534	1,210	374
Negro.....	10	36	1	44	.....	13	41	1	89	32	1	59
Indian, Chinese, Japanese, and all other.....	4	1	.....	2	.....	1	3	1	6	.....	1	.....
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>												
Total under 7 years of age.....	560	795	425	461	516	487	832	662	472	347	832	187
Total 7 to 13 years, inclusive.....	503	749	416	579	406	454	800	380	423	370	766	468
Number attending school.....	489	734	408	529	399	443	789	363	411	369	729	436
Total 14 and 15 years.....	125	188	109	326	105	107	221	69	122	106	214	213
Number attending school.....	76	172	87	284	70	50	169	40	81	100	133	185
Total 16 to 20 years, inclusive.....	291	417	240	357	294	224	536	155	305	204	499	498
Number attending school.....	70	178	65	118	57	44	174	44	99	66	114	186
Males 21 years of age and over.....	972	1,694	837	1,778	907	921	2,258	747	1,153	761	1,826	528
Native white—Native parentage.....	328	794	412	899	276	480	1,284	232	679	342	826	309
Native white—Foreign or mixed parentage.....	228	381	157	474	181	129	515	95	261	168	420	108
Foreign-born white.....	412	503	267	400	450	302	444	419	185	242	679	106
Naturalized.....	106	236	109	152	127	82	233	50	82	119	218	58
Negro.....	3	12	1	4	.....	0	12	1	25	9	.....	5
Females 21 years of age and over.....	1,016	2,381	881	2,288	942	922	2,500	767	1,232	784	1,767	916
Native white—Native parentage.....	348	1,113	477	1,164	267	468	1,393	244	667	339	796	433
Native white—Foreign or mixed parentage.....	267	508	165	573	179	132	562	112	288	181	460	211
Foreign-born white.....	309	743	239	537	496	321	532	411	245	254	510	299
Naturalized.....	112	316	125	246	158	108	328	59	125	145	231	94
Negro.....	2	17	.....	13	.....	1	13	.....	29	10	1	13
<b>ILLITERACY.</b>												
Total 10 years of age and over.....	2,682	5,085	2,293	5,125	2,471	2,413	5,978	1,925	3,054	2,074	4,744	2,479
Number illiterate.....	187	123	82	133	233	239	55	90	61	57	262	167
Native whites 10 years of age and over.....	1,822	3,735	1,747	4,042	1,369	1,728	4,908	1,041	2,518	1,520	3,555	2,052
Number illiterate.....	5	9	3	9	7	6	5	14	15	1	43	140
Foreign-born whites 10 years of age and over.....	850	1,314	545	1,041	1,102	671	1,035	882	462	527	1,186	369
Number illiterate.....	181	110	78	123	226	232	40	76	44	56	219	23
Illiterate males 21 years of age and over.....	96	66	39	55	95	119	20	50	29	21	159	23
Illiterate females 21 years of age and over.....	91	54	42	75	125	117	26	39	31	35	98	64
<b>DWELLINGS AND FAMILIES.</b>												
Dwellings, number.....	584	1,273	655	880	600	724	1,568	393	845	595	1,254	409
Families, number.....	771	1,394	700	1,031	766	759	1,844	581	935	622	1,388	434



## COMPOSITION AND CHARACTERISTICS.

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TABLE 12.—COUNTRY OF BIRTH OF THE FOREIGN-BORN WHITE, FOR COUNTIES AND FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920.

COUNTY, CITY, OR TOWN.	Total foreign-born white.	COUNTRY OF BIRTH.											
		Armenia.	Atlantic Islands.	Austria.	Belgium.	Canada—French.	Canada—Other.	Czechoslovakia.	Denmark.	England.	Finland.	France.	Germany.
COUNTIES.													
The state.....	1,077,534	8,640	25,230	8,098	2,497	108,691	153,330	2,238	3,629	86,895	14,570	7,120	22,113
Barnstable.....	3,640	18	401	5	3	41	563	1	14	262	260	27	31
Berkshire.....	22,733	85	6	402	6	3,120	1,016	39	53	1,709	41	1,018	1,421
Bristol.....	119,946	20,873	833	204	25,168	5,011	236	154	21,437	93	712	1,121	8
Dukes.....	697	324	1	1	21	107	1	6	49	3	2	8	1
Essex.....	138,006	1,713	803	752	493	17,582	23,313	212	351	12,981	1,300	1,272	2,718
Franklin.....	8,131	10	6	487	2	1,033	620	54	15	580	6	35	522
Hampden.....	81,984	282	24	1,898	104	14,661	4,122	638	223	4,498	305	793	2,718
Hampshire.....	16,122	11	1	206	9	3,288	656	154	23	943	7	80	646
Middlesex.....	205,361	2,008	1,174	607	772	16,790	47,021	145	1,032	15,577	1,729	783	2,374
Nantucket.....	323	78	1	1	4	63	1	1	32	1	2	2	2
Norfolk.....	53,459	173	107	262	54	1,359	11,167	66	247	4,766	2,118	315	1,247
Plymouth.....	34,516	413	1,068	119	21	1,977	5,765	20	108	2,257	306	249	572
Suffolk.....	268,202	1,996	312	1,740	751	2,174	43,941	277	995	14,292	577	1,319	6,230
Worcester.....	124,414	1,931	53	726	78	21,483	9,965	396	407	7,512	7,734	513	2,503
CITIES.													
Attleboro.....	4,723	29	77	19	6	1,104	893	5	23	688	18	14	143
Beverly.....	5,314	3	6	5	3	278	1,556	3	64	556	57	24	37
Boston.....	238,919	1,472	294	1,530	580	1,748	40,265	250	935	12,408	562	1,260	5,915
Brookton.....	17,124	162	25	55	5	836	2,684	11	39	974	70	27	80
Cambridge.....	32,104	401	346	111	28	949	6,744	27	92	1,601	50	129	418
Chelsea.....	17,198	445	5	108	154	353	1,430	16	15	618	4	20	133
Chicopee.....	12,182	20	1	476	1	3,514	245	8	25	445	119	119	195
Everett.....	11,079	54	13	40	44	142	3,580	4	07	804	19	35	176
Fall River.....	42,331	5	6,401	260	27	10,734	858	13	33	7,968	27	124	135
Fitchburg.....	13,162	117	2	31	2	3,597	829	3	29	751	2,823	66	429
Gloucester.....	5,883	1	516	4	1	237	2,603	2	66	186	435	28	32
Haverhill.....	13,307	325	9	79	3	2,662	1,062	7	40	665	3	40	77
Holyoke.....	20,255	14	2	546	49	5,806	658	46	43	1,249	2	428	1,011
Lawrence.....	39,063	663	11	427	416	5,970	1,671	44	15	4,240	35	879	1,644
Leominster.....	4,684	20	2	9	1	1,937	656	1	10	239	42	31	73
Lowell.....	38,040	357	402	65	197	10,180	3,002	3	38	3,614	30	90	133
Lynn.....	27,858	385	7	75	8	2,164	7,332	73	62	1,850	53	72	210
Malden.....	14,105	80	4	83	94	146	3,350	19	59	918	8	27	201
Marlborough.....	3,133	2	5	3	1	787	587	2	11	112	8	7	28
Medford.....	8,554	63	18	10	280	139	2,885	9	74	816	19	35	173
Melrose.....	3,240	4	4	18	1	90	1,475	1	5	349	9	19	80
Methuen.....	5,203	80	20	21	29	481	434	5	1	2,429	13	78	365
New Bedford.....	48,689	14	9,772	180	128	9,833	1,157	181	55	9,745	13	438	463
Newburyport.....	3,145	102	2	6	2	243	663	16	4	178	10	21	21
Newton.....	10,179	44	11	19	16	517	2,501	16	47	932	24	70	167
North Adams.....	5,014	4	103	3	3	1,409	154	3	2	543	6	57	112
Northampton.....	4,945	5	1	46	2	339	279	34	6	311	3	32	188
Peabody.....	7,095	40	200	46	1	213	563	21	2	216	314	14	46
Pittsfield.....	8,211	6	5	135	2	683	349	34	25	500	14	347	455
Quincy.....	13,749	10	11	63	4	335	2,700	3	54	1,242	1,338	36	149
Revere.....	8,847	64	4	55	16	54	1,251	3	29	739	6	23	115
Salem.....	11,203	53	3	33	7	3,283	1,404	7	25	300	47	29	47
Somerville.....	24,182	208	239	82	9	317	7,679	28	144	1,335	33	108	311
Springfield.....	31,250	237	5	410	34	3,719	2,078	111	84	1,947	180	179	1,152
Taunton.....	9,998	7	1,662	261	10	1,325	810	15	10	621	17	20	135
Waltham.....	8,104	14	3	7	28	547	2,321	35	35	719	34	32	70
Woburn.....	3,027	1	2	6	3	35	705	15	97	171	30	7	28
Worcester.....	53,418	1,225	10	189	27	4,262	3,833	15	227	3,343	2,175	119	467
TOWNS.													
Adams.....	3,949	4	118	2	1	649	289	7	165	2	122	571	16
Amesbury.....	2,158	11	26	16	2	750	371	28	45	336	6	27	89
Arlington.....	4,097	10	7	3	3	14	1,285	8	13	173	5	5	46
Belmont.....	2,537	18	1	12	1	132	594	3	13	261	49	16	26
Braintree.....	2,276	16	8	43	12	60	2,368	8	32	745	37	97	231
Brookline.....	9,360	20	1	14	6	181	260	10	10	187	59	3	398
Clinton.....	4,111	6	9	10	3	237	687	10	144	144	19	2	22
Danvers.....	2,178	1	3	10	3	46	447	1	21	222	10	27	264
Dedham.....	2,807	1	3	46	1	726	60	31	1	255	2	7	201
Easthampton.....	3,459	3	3	30	1	97	813	2	11	249	21	13	33
Framingham.....	4,001	2	2	16	1	1,257	276	2	9	104	1,410	20	29
Gardner.....	5,556	6	1	76	1	300	283	10	7	127	1	7	203
Greenfield.....	2,555	34	1	27	1	64	257	8	5	158	20	11	20
Milford.....	3,763	9	10	18	5	27	526	13	10	150	7	11	47
Natick.....	2,078	380	3	55	1	1,309	129	1	4	291	12	7	6
Northbridge.....	3,696	1	12	1	1	19	391	26	19	175	489	5	110
Norwood.....	4,256	633	2	9	1	154	324	2	2	224	10	135	172
Plymouth.....	3,840	6	3	6	1	119	807	17	11	294	7	12	47
Saugus.....	2,450	8	50	1	1	2,277	87	8	2	220	3	8	16
Southbridge.....	4,167	1	10	2	2	289	918	10	10	209	2	18	20
Wakefield.....	3,312	572	17	10	10	90	1,300	3	24	378	24	16	63
Watertown.....	5,792	143	1	1	1	884	50	100	83	1	9	493	63
Webster.....	3,731	4	88	6	6	212	394	99	9	184	12	75	75
West Springfield.....	2,880	3	2	273	1	225	127	320	11	202	3	10	94
Westfield.....	4,543	39	3	9	5	184	547	13	13	270	67	12	27
Weymouth.....	2,677	1	5	5	1	27	596	2	14	99	12	8	18
Winchester.....	2,169	15	9	47	1	24	995	16	16	527	5	8	67
Winthrop.....	3,238	15	9	47	1	24	995	16	16	527	5	8	67

<sup>1</sup> Includes persons born in the Azores (see footnote to Table 6).



## POPULATION—MASSACHUSETTS.

TABLE 12.—COUNTRY OF BIRTH OF THE FOREIGN-BORN WHITE, FOR COUNTIES AND FOR CITIES AND TOWNS OF 10,000 OR MORE: 1920—Continued.

COUNTY, CITY, OR TOWN.	COUNTRY OF BIRTH—continued.													
	Greece.	Ireland.	Italy.	Lithu- ania.	Nether- lands.	New- found- land.	Nor- way.	Poland.	Portu- gal.	Russia.	Scot- land.	Sweden.	Syria.	All other coun- tries.
COUNTIES.														
The state.....	20,441	183,171	117,007	20,789	2,071	7,165	5,491	60,157	28,315	92,034	28,474	38,012	7,128	15,228
Barnstable.....	32	241	296	1	5	10	18	13	1,147	36	90	107	-----	36
Berkshire.....	141	3,202	4,207	100	33	28	57	2,703	96	1,263	871	280	237	606
Bristol.....	920	8,191	2,786	120	36	88	168	6,555	16,222	3,315	1,790	1,466	927	1,445
Dukes.....	2	56	6	1	1	2	6	-----	51	10	12	12	3	14
Essex.....	5,907	18,848	15,612	2,959	43	439	423	9,063	1,327	9,311	4,143	2,807	1,982	1,652
Franklin.....	67	663	378	277	9	7	42	2,006	7	643	143	389	1	129
Hampden.....	1,608	12,848	7,485	583	56	75	139	14,538	1,272	6,068	3,683	1,744	461	1,128
Hampshire.....	77	2,185	443	356	10	11	5	5,466	47	706	447	132	7	206
Middlesex.....	5,743	43,337	20,511	3,004	345	2,341	1,429	7,111	5,251	9,781	5,577	7,751	293	2,875
Nantucket.....	2	54	1	-----	19	1	10	3	8	16	8	15	1	2
Norfolk.....	273	11,828	6,597	1,163	122	173	475	1,187	307	2,360	2,927	3,038	353	775
Plymouth.....	589	4,788	4,742	2,106	51	101	125	1,082	1,221	2,349	701	2,983	247	466
Suffolk.....	3,230	59,449	42,053	4,251	728	3,688	1,993	8,678	1,007	49,099	5,489	7,073	1,765	4,120
Worcester.....	1,850	17,481	11,890	5,868	613	201	626	9,752	352	7,047	2,593	10,215	851	1,774
CITIES.														
Attleboro.....	62	483	140	4	-----	5	12	88	172	130	115	423	-----	70
Beverly.....	45	770	929	4	3	14	59	87	8	297	265	202	-----	39
Boston.....	3,054	57,011	38,179	4,127	691	2,797	1,875	7,650	957	38,021	5,079	6,780	1,756	3,713
Brookton.....	465	2,484	1,882	1,721	4	49	58	444	162	1,779	275	2,380	205	268
Cambridge.....	352	8,448	2,730	1,346	20	472	185	1,486	1,946	1,759	822	1,106	59	477
Chelsea.....	93	1,270	1,142	111	10	717	11	1,893	21	8,149	124	75	2	279
Chicopee.....	347	1,044	99	15	-----	2	3	4,669	164	363	284	51	12	81
Everett.....	42	1,494	1,068	-----	38	262	122	169	35	675	340	779	3	144
Fall River.....	149	3,201	945	1	6	17	30	2,525	5,663	1,661	600	63	582	303
Fitchburg.....	390	1,473	1,185	166	3	5	31	184	25	307	408	224	22	60
Gloucester.....	62	279	393	2	6	50	54	48	341	81	71	325	34	26
Haverhill.....	1,273	1,649	1,701	453	3	13	12	640	9	1,223	223	60	45	131
Holyoke.....	258	4,201	368	74	2	3	9	2,701	194	1,361	991	59	13	107
Lawrence.....	354	4,256	8,493	1,874	6	27	11	2,505	491	2,102	1,067	74	1,079	209
Leominster.....	12	564	1,056	-----	2	2	8	3	2	61	104	112	15	23
Lowell.....	3,733	7,453	431	787	17	30	68	2,298	1,666	916	916	523	93	398
Lynn.....	1,685	4,527	1,943	340	9	188	121	1,391	21	3,074	692	1,119	42	356
Malden.....	72	2,347	1,043	36	97	97	96	352	61	3,713	266	774	3	159
Marlborough.....	214	453	531	21	8	6	12	49	37	92	32	45	-----	81
Medford.....	11	1,675	809	4	37	320	62	102	49	184	372	376	5	121
Melrose.....	18	561	146	10	8	18	10	43	9	54	124	144	-----	50
Methuen.....	1	208	241	60	4	4	3	87	16	137	201	20	108	110
New Bedford.....	588	2,027	631	48	15	27	71	2,902	7,457	1,022	541	263	300	812
Newburyport.....	214	712	91	6	1	2	8	488	11	210	88	24	28	31
Newton.....	14	3,022	1,525	42	11	39	62	121	14	196	296	329	4	150
North Adams.....	11	596	968	14	-----	3	2	74	8	303	272	21	120	226
Northampton.....	28	1,140	340	189	-----	4	4	986	8	232	80	64	6	109
Peabody.....	1,305	1,222	163	98	-----	2	21	678	318	1,111	42	34	2	424
Pittsfield.....	113	1,310	1,999	81	9	6	36	634	80	706	254	157	53	185
Quincy.....	60	1,561	2,490	24	14	29	178	66	28	554	1,238	1,253	158	151
Revere.....	30	819	2,607	10	20	114	35	60	22	2,438	144	111	6	73
Salem.....	312	2,107	478	32	-----	16	8	1,876	2	688	85	108	28	153
Somerville.....	327	5,741	3,463	63	16	395	165	214	686	596	899	754	5	365
Springfield.....	939	5,600	4,491	110	38	56	92	2,442	29	3,852	1,309	1,221	380	556
Taunton.....	76	1,427	280	19	2	11	8	646	1,542	340	204	93	21	136
Waltham.....	68	1,769	1,119	20	6	57	51	158	12	261	152	539	-----	84
Woburn.....	217	1,361	574	59	6	11	24	107	64	69	55	260	-----	84
Worcester.....	720	9,048	4,296	4,220	69	53	334	3,632	27	4,778	936	7,751	688	944
TOWNS.														
Adams.....	15	202	72	3	-----	2	-----	1,416	1	76	116	1	47	75
Amesbury.....	10	351	53	6	-----	4	-----	194	1	16	98	28	5	29
Arlington.....	7	1,033	348	9	9	94	48	36	29	125	119	332	-----	43
Belmont.....	7	440	466	3	1	26	51	8	5	19	96	226	-----	43
Braintree.....	4	262	384	-----	13	4	20	12	43	29	200	138	5	36
Brookline.....	61	4,153	71	14	8	46	83	67	26	287	312	395	10	170
Clinton.....	244	1,488	415	4	1	1	-----	542	7	81	212	15	2	15
Danvers.....	54	456	99	3	-----	27	23	112	12	116	26	69	-----	32
Dedham.....	17	627	484	8	10	8	17	113	4	129	163	107	30	35
Easthampton.....	12	231	34	65	7	-----	-----	1,353	6	304	88	16	1	11
Framingham.....	19	692	1,195	27	8	33	15	169	31	237	97	101	7	94
Gardner.....	13	270	73	474	3	2	43	852	60	247	15	329	30	17
Greenfield.....	62	292	180	110	6	3	13	535	1	175	59	39	-----	59
Milford.....	21	444	2,071	9	-----	3	4	49	122	154	72	102	53	25
Natick.....	33	530	316	1	1	6	4	20	48	72	72	88	19	111
Northbridge.....	-----	583	13	8	369	42	1	213	-----	39	115	40	1	104
Norwood.....	13	867	402	586	3	5	20	359	10	163	71	310	109	90
Plymouth.....	7	226	1,202	5	2	7	10	20	428	113	74	39	3	39
Saugus.....	2	193	293	34	3	41	14	113	11	73	120	184	8	31
Southbridge.....	149	194	395	17	1	2	4	316	25	104	69	54	-----	158
Wakefield.....	9	568	736	8	2	41	19	126	4	91	58	138	-----	33
Watertown.....	190	1,164	1,134	4	5	113	39	45	17	73	129	218	17	137
Webster.....	78	239	104	16	7	-----	5	1,231	4	156	26	30	-----	81
West Springfield.....	15	425	862	2	10	-----	5	185	1	106	114	37	11	24
Westfield.....	24	703	343	339	3	2	3	1,280	25	178	95	43	11	224
Weymouth.....	3	531	374	1	4	5	35	40	8	95	240	119	2	44
Winchester.....	6	724	432	-----	-----	4	11	1	6	27	29	124	-----	25
Winthrop.....	53	349	125	3	7	60	47	75	7	491	142	107	1	55



## COMPOSITION AND CHARACTERISTICS.

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TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920.

SUBJECT.	BOSTON.													
	THE CITY.	WARD.												
		1	2	3	4	5	6	7	8	9	10	11	12	13
COLOR OR RACE, NATIVITY, AND SEX.														
Total population.....	748,080	24,738	38,313	18,566	15,706	63,267	35,030	38,091	39,105	28,959	25,727	26,875	28,015	28,380
Male.....	368,750	12,251	20,382	9,640	8,045	35,150	18,580	18,978	16,543	14,905	12,726	13,208	13,849	13,025
Female.....	379,304	12,487	17,931	8,926	7,661	28,117	16,450	19,113	22,562	14,054	13,001	13,667	14,166	15,355
Native white.....	491,566	17,489	22,301	13,627	11,258	29,882	19,647	23,384	23,855	18,713	18,339	19,676	18,630	13,145
Male.....	241,633	8,634	11,017	7,063	5,755	15,965	10,408	11,433	10,943	9,545	9,135	9,764	9,293	6,638
Female.....	249,933	8,855	10,774	6,564	5,502	13,917	9,239	11,946	12,912	9,168	9,204	9,912	9,343	6,507
Native white—Native parentage.....	181,811	6,026	3,568	4,785	3,823	3,302	7,214	14,500	14,813	4,091	6,000	6,728	6,125	5,031
Native white—Foreign parentage.....	238,241	8,230	16,391	6,552	5,910	25,293	9,888	5,844	6,856	12,535	8,981	9,704	9,461	5,907
Native white—Mixed parentage.....	71,514	3,233	2,432	2,290	1,525	1,287	2,545	2,950	2,186	2,087	3,358	3,244	3,050	2,207
Foreign-born white.....	238,919	7,238	15,841	4,769	4,302	32,678	13,968	11,043	14,227	10,207	7,376	7,175	8,002	5,880
Male.....	117,770	3,608	8,711	2,453	2,248	18,598	7,361	5,485	5,053	5,335	3,579	3,427	4,154	2,808
Female.....	121,149	3,630	7,130	2,316	2,149	14,080	6,607	5,558	9,174	4,872	3,797	3,748	4,448	3,072
Negro.....	16,350	56	152	23	89	1,341	3,558	969	24	2	13	756	7,319	7,319
Male.....	8,295	33	106	19	63	744	1,962	495	10	2	6	381	3,547	3,547
Female.....	8,055	23	46	4	26	597	1,596	464	14	.....	7	375	3,772	3,772
Indian, Chinese, Japanese, and all other.....	1,225	11	25	18	33	618	74	108	64	15	10	11	21	86
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.														
Total under 7 years of age.....	97,870	3,609	7,392	2,490	1,969	11,878	3,377	1,645	2,571	4,799	3,476	3,987	3,937	2,991
Total 7 to 13 years, inclusive.....	88,524	3,363	6,248	2,649	1,935	8,953	3,230	1,495	2,439	4,338	3,397	3,446	3,619	3,030
Number attending school.....	83,821	3,243	6,049	2,599	1,873	8,617	3,013	1,395	2,292	4,117	3,230	3,241	3,397	2,854
Total 14 and 15 years.....	22,481	890	1,419	890	545	1,958	814	427	644	1,067	838	900	949	803
Number attending school.....	18,751	678	1,128	539	467	1,431	600	365	500	784	663	731	772	663
Total 16 and 17 years.....	22,616	871	1,295	667	549	1,872	854	511	717	1,034	896	923	948	805
Number attending school.....	9,774	301	404	189	197	586	303	245	398	281	330	367	300	301
Total 18 to 20 years, inclusive.....	35,629	1,325	1,910	939	826	2,818	1,545	1,445	1,478	1,428	1,416	1,338	1,371	1,271
Number attending school.....	5,422	136	205	87	90	333	243	365	387	100	140	173	122	126
Males 21 years of age and over.....	235,790	7,357	11,139	5,887	5,141	21,269	13,756	10,201	12,727	8,552	7,700	7,872	8,470	8,678
Native white—Native parentage.....	53,839	1,514	985	1,202	1,052	1,688	3,065	6,075	5,439	316	1,432	1,544	1,601	1,589
Native white—Foreign or mixed parentage.....	65,583	2,473	2,812	2,160	1,890	2,555	3,316	3,160	2,188	2,593	2,631	3,056	2,711	1,929
Foreign-born white.....	109,209	3,362	7,798	2,358	2,171	16,531	6,735	5,250	4,651	5,120	3,329	3,257	3,863	2,617
Naturalized.....	51,418	1,809	2,357	1,330	1,399	3,431	2,524	2,248	1,732	1,996	1,804	1,722	1,855	1,380
Negro.....	6,227	20	91	17	50	50	580	1,638	401	3	.....	4	274	2,514
Females 21 years of age and over.....	245,150	7,353	8,904	5,244	4,741	14,519	11,454	10,367	18,529	7,741	8,004	8,409	8,721	8,802
Native white—Native parentage.....	55,763	1,304	937	933	797	881	2,347	6,578	6,610	631	1,301	1,503	1,516	1,377
Native white—Foreign or mixed parentage.....	71,626	2,640	1,951	2,052	1,858	1,680	2,755	3,181	2,878	2,462	3,193	3,373	2,797	1,870
Foreign-born white.....	111,827	3,348	6,296	2,225	2,080	11,898	5,944	5,342	3,870	4,642	3,510	3,523	4,145	2,848
Naturalized.....	51,404	1,888	2,064	1,456	1,364	2,279	2,010	1,987	1,669	1,967	1,936	1,876	1,954	1,396
Negro.....	5,859	19	34	4	22	405	1,257	362	6	.....	5	263	2,704	2,704
Males 18 to 44 years, inclusive.....	167,626	5,461	8,553	4,127	3,692	15,860	9,106	11,373	7,967	6,378	5,676	5,855	6,024	6,048
Females 18 to 44 years, inclusive.....	173,547	5,398	6,824	3,605	3,227	11,853	8,220	10,534	12,096	5,785	6,794	6,110	6,043	6,220
ILLITERACY.														
Total 10 years of age and over.....	611,539	19,661	28,073	14,944	12,908	47,161	30,242	35,840	35,496	22,233	20,830	21,411	22,500	22,085
Number illiterate.....	24,524	515	3,333	327	243	9,877	1,844	1,099	1,532	1,038	339	497	853	286
Native white.....	359,954	12,506	12,418	10,063	8,497	14,504	15,201	21,607	20,419	12,069	13,630	14,295	13,350	10,089
Number illiterate.....	517	13	31	16	22	35	41	17	37	35	24	14	15	10
Foreign-born white.....	236,320	7,145	15,580	4,724	4,362	32,033	13,837	10,980	14,157	10,129	7,288	7,093	8,494	5,810
Number illiterate.....	23,407	497	3,785	303	215	9,660	1,704	139	459	1,647	314	488	806	173
Negro.....	14,162	53	140	23	83	1,134	3,255	890	20	2	12	635	6,202	97
Number illiterate.....	317	10	5	2	4	83	38	31	1	.....	.....	32	97	97
Total 16 to 20 years, inclusive.....	58,245	2,196	3,211	1,606	1,375	4,690	2,399	1,956	2,195	2,462	2,312	2,261	2,319	2,076
Number illiterate.....	244	1	30	3	5	94	16	7	5	13	8	5	7	6
Illiterate males 21 years of age and over.....	10,804	183	1,725	145	93	4,691	783	98	209	768	126	207	357	102
Native white.....	196	2	13	8	8	20	17	8	9	15	9	5	5	4
Foreign-born white.....	10,204	177	1,702	134	80	4,518	690	63	187	747	116	202	327	59
Negro.....	167	4	1	2	1	60	23	9	1	.....	.....	20	34	34
Illiterate females 21 years of age and over.....	13,386	327	2,072	178	143	5,076	1,042	94	314	901	203	283	492	178
Native white.....	208	8	13	6	7	8	17	7	23	11	7	5	7	5
Foreign-born white.....	12,995	318	2,052	168	135	5,042	1,003	73	268	890	196	278	473	114
Negro.....	152	6	4	.....	.....	2	22	14	22	.....	.....	12	12	59
DWELLINGS AND FAMILIES.														
Dwellings, number.....	79,597	2,908	3,051	2,401	1,868	3,259	2,658	3,015	3,424	3,183	3,238	2,933	3,063	2,992
Families, number.....	164,785	5,364	7,206	3,964	3,412	12,331	6,515	8,625	8,614	6,230	5,749	6,012	6,353	6,688
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.														
Armenia.....	1,472	22	13	71	15	62	293	173	29	52	53	23	34	179
Austria.....	1,530	26	83	5	12	247	147	55	118	13	17	27	29	22
Canada—French.....	1,743	153	167	62	36	71	186	254	66	8	27	33	35	45
Canada—Other.....	40,265	2,268	1,192	923	514	662	2,281	3,786	2,894	599	1,343	1,270	1,908	1,415
Denmark.....	935	47	47	7	2	19	40	72	56	9	25	31	26	32
England.....	12,408	484	348	195	170	311	732	1,053	852	269	503	346	425	400
France.....	1,269	24	27	11	2	49	82	229	177	19	15	32	25	35
Germany.....	5,915	84	79	45	28	98	189	302	192	118	261	176	102	185
Greece.....	3,064	22	44	14	5	599	487	860	362	19	18	12	76	44
Ireland.....	57,011	855	1,562	2,610	2,930	1,581	2,749	1,906	4,813	4,842	2,531	2,540	3,103	1,902
Italy.....	38,179	1,560	8,591	2,610	2,444	16,787	1,325	446	701	772	401	718	1,427	238
Lithuania.....	4,127	2	26	23	13	404	22	13	38	1,818	702	80	77	29
Newfoundland.....	2,797	432	531	104	181	52	81	97	47	77	227	46	87	53
Norway.....	1,875	122	178	13	9	43	49	67	112	17	36	44	33	46
Poland.....	7,850	67	150	64	15	1,944	787	104	258	339	57	938	294	70
Portugal.....	957	193	123	20										



TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	BOSTON—Continued.												
	WARD.												
	14	15	16	17	18	19	20	21	22	23	24	25	26
<b>COLOR OR RACE, NATIVITY, AND SEX.</b>													
Total population.....	26,003	25,980	29,383	27,277	28,547	24,810	26,546	33,938	25,989	24,904	23,849	22,082	20,020
Male.....	12,152	12,491	13,767	12,857	13,697	11,554	12,745	16,528	12,186	11,816	11,910	9,845	9,916
Female.....	13,851	13,489	15,616	14,420	14,850	13,256	13,801	17,410	13,793	13,088	11,939	12,237	10,104
Native white.....	18,257	17,684	19,310	19,448	19,593	17,536	20,175	22,649	18,770	19,155	17,147	17,358	14,462
Male.....	8,749	8,600	9,046	9,260	9,381	8,151	9,773	11,050	8,919	9,134	8,432	7,797	7,162
Female.....	9,508	9,084	10,264	10,188	10,212	9,385	10,402	11,599	9,851	10,021	8,715	9,561	7,300
Native white—Native parentage.....	5,777	5,569	6,603	7,872	6,344	7,332	9,160	7,935	7,873	8,963	6,776	9,804	5,907
Native white—Foreign parentage.....	9,701	8,906	9,749	8,852	10,136	7,685	7,356	11,170	7,882	6,924	7,422	5,090	8,516
Native white—Mixed parentage.....	2,779	3,189	2,958	3,224	3,113	2,519	3,659	3,544	3,215	3,268	2,949	2,464	2,239
Foreign-born white.....	7,500	7,928	9,360	7,757	8,900	7,212	6,316	11,120	7,154	5,719	6,629	4,623	5,305
Male.....	3,276	3,726	4,389	3,561	4,303	3,372	2,942	5,399	3,240	2,682	3,438	2,010	2,637
Female.....	4,224	4,202	4,971	4,196	4,597	3,840	3,374	5,721	3,914	3,037	3,191	2,613	2,668
Negro.....	204	359	672	67	44	46	44	152	62	16	68	85	249
Male.....	103	156	314	31	23	15	19	64	24	7	35	23	113
Female.....	101	203	358	36	21	31	25	88	38	9	33	62	136
Indian, Chinese, Japanese, and all other.....	42	9	21	5	10	16	11	17	13	14	5	16	4
<b>AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.</b>													
Total under 7 years of age.....	3,165	3,453	3,171	3,592	3,950	2,817	3,579	4,600	3,311	3,049	3,795	2,041	3,226
Total 7 to 13 years, inclusive.....	3,506	3,181	3,301	3,151	3,587	2,739	3,168	4,231	3,020	2,917	3,390	1,603	2,588
Number attending school.....	3,325	3,074	3,007	3,025	3,458	2,640	3,037	3,629	2,944	2,704	3,238	1,520	2,300
Total 14 and 15 years.....	938	898	919	870	937	737	893	1,054	787	740	819	435	600
Number attending school.....	803	726	811	755	829	678	813	866	690	680	718	395	540
Total 16 and 17 years.....	895	893	961	910	937	746	833	1,080	810	730	752	448	629
Number attending school.....	388	337	557	468	525	464	473	539	460	431	355	257	318
Total 18 to 20 years, inclusive.....	1,350	1,309	1,553	1,363	1,524	1,270	1,182	1,748	1,191	1,169	1,076	858	910
Number attending school.....	204	157	299	209	240	312	208	294	224	267	173	186	142
Males 21 years of age and over.....	7,163	7,714	8,889	7,955	8,306	7,472	7,949	10,150	7,683	7,547	7,039	7,263	5,921
Native white—Native parentage.....	1,227	1,386	1,852	2,139	1,474	2,150	2,419	2,193	1,938	2,343	1,795	3,344	1,517
Native white—Foreign or mixed parentage.....	2,689	2,717	2,682	2,512	2,813	2,167	2,718	2,907	2,643	2,638	2,039	1,973	1,826
Foreign-born white.....	3,164	3,498	4,110	3,283	3,997	3,130	2,782	4,989	3,076	2,550	3,181	1,913	2,498
Naturalized.....	2,160	2,104	2,718	1,900	2,491	2,062	1,782	2,916	1,952	1,756	1,539	1,160	1,295
Negro.....	67	104	228	16	12	10	19	47	14	4	19	18	76
Females 21 years of age and over.....	8,906	8,542	10,559	9,436	9,256	9,029	8,942	11,075	9,217	8,752	6,978	9,434	6,146
Native white—Native parentage.....	1,504	1,428	2,359	2,357	1,594	2,576	2,372	2,386	2,716	2,716	1,792	4,111	1,563
Native white—Foreign or mixed parentage.....	3,341	3,020	3,341	3,192	3,379	2,823	3,187	3,395	3,191	3,106	2,216	2,773	1,072
Foreign-born white.....	4,068	3,960	4,614	3,865	4,265	3,606	3,157	5,242	3,671	2,924	2,953	2,502	2,524
Naturalized.....	2,447	2,454	2,755	2,161	2,625	2,130	1,982	2,832	2,034	1,909	1,535	1,363	1,431
Negro.....	76	134	245	22	18	24	18	65	19	6	17	47	87
Males 18 to 44 years, inclusive.....	5,305	5,634	6,201	5,587	6,205	5,072	5,516	7,391	5,326	5,024	4,868	5,021	4,356
Females 18 to 44 years, inclusive.....	6,521	6,011	7,227	6,575	6,878	6,187	6,184	8,082	6,374	5,805	4,894	6,445	4,667
<b>ILLITERACY.</b>													
Total 10 years of age and over.....	21,395	21,116	24,785	22,867	23,022	20,880	21,565	27,533	21,378	20,628	18,513	19,366	15,807
Number illiterate.....	152	185	161	496	259	218	98	449	146	159	795	123	255
Native white.....	13,728	12,957	14,897	14,650	14,135	13,658	15,265	16,353	14,233	14,925	11,907	14,679	10,169
Number illiterate.....	5	11	7	17	12	14	36	13	20	42	10	4	12
Foreign-born white.....	7,469	7,849	9,299	7,664	8,837	7,165	6,248	11,032	7,088	5,677	6,543	4,592	5,235
Number illiterate.....	140	170	148	464	243	203	84	407	130	137	745	100	251
Negro.....	175	301	570	48	40	41	41	133	44	14	58	79	199
Number illiterate.....	1	1	1	1	1	1	1	1	1	2	4	3	.....
Total 16 to 20 years, inclusive.....	2,245	2,202	2,524	2,273	2,511	2,016	2,015	2,828	2,001	1,899	1,828	1,306	1,539
Number illiterate.....	.....	.....	1	7	2	3	2	5	4	2	10	6	2
Illiterate males 21 years of age and over.....	55	82	49	151	68	67	37	144	58	61	371	60	114
Native white.....	.....	6	1	4	4	6	7	14	3	9	16	3	.....
Foreign-born white.....	50	73	43	143	64	59	30	126	52	52	349	47	114
Negro.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Illiterate females 21 years of age and over.....	97	105	108	325	182	146	58	296	82	91	405	54	136
Native white.....	.....	5	2	9	5	3	5	17	6	5	16	5	1
Foreign-born white.....	90	97	105	315	177	142	53	277	76	84	387	47	135
Negro.....	.....	1	1	1	.....	1	.....	1	.....	2	2	.....	.....
<b>DWELLINGS AND FAMILIES.</b>													
Dwellings, number.....	2,194	2,927	3,183	2,994	2,930	3,088	3,470	3,838	3,382	4,485	3,705	2,439	2,969
Families, number.....	5,687	5,955	6,603	6,238	6,331	6,719	6,049	7,103	6,054	6,013	5,186	6,413	4,411
<b>COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.</b>													
Armenia.....	44	93	13	15	23	57	34	72	19	14	16	13	40
Austria.....	60	71	137	39	59	66	21	112	37	37	48	30	12
Canada—French.....	68	42	24	63	30	30	59	32	36	41	105	35	37
Canada—Other.....	1,224	1,443	1,750	1,935	1,466	1,269	1,881	1,847	1,488	1,545	1,201	1,455	1,208
Denmark.....	18	71	20	39	20	8	51	56	56	77	61	23	22
England.....	455	480	523	505	434	460	582	650	510	486	496	426	313
France.....	54	54	50	53	34	24	13	36	44	88	47	29	16
Germany.....	473	808	223	128	150	151	122	181	580	781	252	149	58
Greece.....	61	55	53	11	27	36	39	45	23	25	38	55	24
Ireland.....	4,111	2,306	1,209	1,870	2,146	912	1,734	1,503	2,761	836	1,229	1,216	1,764
Italy.....	137	442	264	350	412	224	205	315	202	317	1,151	369	319
Lithuania.....	10	9	32	64	37	14	25	5	13	138	1	522	.....
Newfoundland.....	39	49	87	124	49	24	71	64	34	54	45	76	71
Norway.....	28	70	44	186	31	31	132	210	74	102	133	37	19
Poland.....	86	110	396	121	425	271	44	378	40	49	439	68	156
Portugal.....	8	17	23	19	22	16	8	20	12	12	30	3	9
Russia.....	222	1,045	4,023	1,563	2,939	3,072	275	4,414	278	172	315	235	306
Scotland.....	138	281	105	182	106	113	374	256	365	326	321	98	152
Sweden.....	108	247	157	374	239	188	518	637	381	460	388	133	129
Syria.....	6	13	2	2	6	8	13	15	1	77	32	4	5
All other countries.....	152	213	225	178	218	215	126	252	210	207	144	108	133



## COMPOSITION AND CHARACTERISTICS.

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TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	BROCKTON							
	THE CITY.	WARD.						
		1	2	3	4	5	6	7
COLOR AND RACE, NATIVITY, AND SEX.								
Total population.....	68,254	9,914	8,339	9,583	7,289	9,143	11,946	10,090
Male.....	32,809	5,015	3,923	4,681	3,569	4,591	6,131	4,899
Female.....	33,445	4,899	4,416	4,902	3,670	4,552	5,815	5,191
Native white.....	48,511	7,878	6,537	7,129	5,302	6,040	8,137	7,488
Male.....	23,693	3,897	3,009	3,475	2,630	3,050	4,048	3,584
Female.....	24,818	3,981	3,528	3,654	2,672	2,990	4,089	3,904
Native white—Native parentage.....	24,643	5,042	3,677	3,880	2,338	2,378	3,282	4,046
Native white—Foreign parentage.....	16,895	1,756	1,908	2,335	2,119	2,746	3,600	2,332
Native white—Mixed parentage.....	6,973	1,080	952	914	845	916	1,156	1,110
Foreign-born white.....	17,124	1,977	1,666	2,444	1,872	2,805	3,775	2,586
Male.....	8,795	1,089	830	1,201	905	1,399	2,061	1,310
Female.....	8,329	888	836	1,243	967	1,406	1,714	1,275
Negro.....	659	50	103	2	65	294	31	14
Male.....	274	23	55	1	34	140	19	2
Female.....	285	27	48	1	31	154	12	12
Indian and Chinese.....	60	9	33	8	.....	4	3	3
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.								
Total under 7 years of age.....	8,469	969	849	1,057	902	1,493	1,878	1,231
Total 7 to 13 years, inclusive.....	7,929	920	803	1,033	882	1,396	1,733	1,102
Number attending school.....	7,605	894	788	978	843	1,308	1,660	1,134
Total 14 and 15 years.....	1,995	242	219	291	246	338	371	288
Number attending school.....	1,510	210	176	238	182	233	239	238
Total 16 and 17 years.....	1,921	248	218	280	222	308	345	300
Number attending school.....	1,770	117	98	132	75	110	97	141
Total 18 to 20 years, inclusive.....	3,024	415	363	458	388	457	498	445
Number attending school.....	497	103	72	61	49	67	66	70
Males 21 years of age and over.....	21,170	3,594	2,746	3,123	2,195	2,572	3,735	3,205
Native white—Native parentage.....	7,606	1,705	1,158	1,255	693	624	908	1,268
Native white—Foreign or mixed parentage.....	5,154	830	754	705	635	637	849	735
Foreign-born white.....	8,194	1,026	772	1,158	850	1,221	1,959	1,198
Naturalized.....	3,986	467	401	792	500	567	653	376
Negro.....	171	18	34	1	17	89	11	1
Females 21 years of age and over.....	21,746	3,526	3,141	3,341	2,314	2,579	3,386	3,450
Native white—Native parentage.....	8,130	1,813	1,411	1,334	694	622	871	1,380
Native white—Foreign or mixed parentage.....	5,788	862	921	819	708	648	908	922
Foreign-born white.....	7,651	826	776	1,135	900	1,213	1,601	1,150
Naturalized.....	4,072	453	408	826	551	554	638	642
Negro.....	168	17	32	.....	12	94	8	7
Males 18 to 44 years, inclusive.....	14,545	2,323	1,800	2,050	1,545	1,874	2,705	2,188
Females 18 to 44 years, inclusive.....	15,112	2,287	2,053	2,271	1,625	1,972	2,620	2,284
ILLITERACY.								
Total 10 years of age and over.....	54,318	8,566	7,145	8,115	5,853	7,014	9,261	8,364
Number illiterate.....	1,469	144	77	59	113	163	705	208
Native white.....	30,878	6,552	5,375	5,682	3,943	4,029	5,496	5,796
Number illiterate.....	71	7	.....	14	5	20	18	7
Foreign-born white.....	16,917	1,956	1,649	2,424	1,854	2,744	3,737	2,553
Number illiterate.....	1,380	130	73	44	107	140	686	200
Negro.....	465	49	89	2	51	237	25	12
Number illiterate.....	10	2	3	.....	1	3	1	.....
Total 16 to 20 years, inclusive.....	4,045	663	581	738	610	705	843	745
Number illiterate.....	14	5	2	.....	.....	4	2	1
Illiterate males 21 years of age and over.....	603	92	25	23	47	61	272	83
Native white.....	33	5	.....	6	3	8	8	3
Foreign-born white.....	560	82	24	16	44	52	263	79
Negro.....	4	1	1	.....	.....	1	1	.....
Illiterate females 21 years of age and over.....	840	47	50	32	65	96	428	122
Native white.....	25	2	.....	4	1	8	7	3
Foreign-born white.....	807	43	47	28	63	86	421	119
Negro.....	6	1	2	.....	1	2	.....	.....
DWELLINGS AND FAMILIES.								
Dwellings, number.....	10,388	1,407	1,260	1,993	1,134	1,352	1,600	1,642
Families, number.....	16,084	2,330	2,075	2,565	1,767	2,037	2,757	2,553
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.								
Albania.....	96	42	7	.....	6	14	15	12
Armenia.....	162	43	9	3	3	7	52	45
Austria.....	55	8	6	1	13	13	11	3
Canada—French.....	830	140	66	37	43	285	202	83
Canada—Other.....	2,684	565	436	317	243	201	396	440
England.....	974	130	102	102	50	101	98	385
Finland.....	70	4	4	16	22	11	6	8
Germany.....	80	21	5	7	4	11	20	12
Greece.....	465	222	53	8	14	64	26	78
Ireland.....	2,484	311	402	265	488	320	347	291
Italy.....	1,862	143	288	112	241	501	96	481
Lithuania.....	1,721	2	1	11	2	9	1,428	208
Norway.....	58	6	10	31	3	.....	3	6
Poland.....	444	21	10	20	29	48	246	70
Portugal.....	162	22	6	7	14	11	16	86
Russia.....	1,779	114	58	34	83	968	432	90
Scotland.....	275	45	30	47	17	20	40	76
Sweden.....	2,380	82	68	1,383	536	76	149	81
Syria.....	205	11	3	6	1	29	143	12
All other countries.....	332	45	42	32	54	46	60	53



TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	CAMBRIDGE.											
	THE CITY.	WARD.										
		1	2	3	4	5	6	7	8	9	10	11
COLOR OR RACE, NATIVITY, AND SEX.												
Total population.....	109,694	5,810	5,886	10,068	9,780	10,401	13,127	12,488	9,629	12,796	8,828	10,881
Male.....	52,428	3,113	2,996	5,186	4,916	4,682	6,611	6,143	4,200	5,431	3,925	5,275
Female.....	57,266	2,697	2,890	4,932	4,864	5,719	6,516	6,345	5,429	7,365	4,903	5,606
Native white.....	72,146	3,328	3,463	5,695	5,879	7,566	8,088	7,442	6,905	9,507	6,510	7,767
Male.....	34,581	1,768	1,707	2,857	2,984	3,471	4,100	3,723	3,051	4,236	2,924	3,770
Female.....	37,565	1,570	1,756	2,838	2,895	4,095	3,988	3,719	3,854	5,271	3,582	3,987
Native white—Native parentage.....	29,045	517	491	948	1,820	3,440	3,217	3,081	3,441	5,755	3,471	2,864
Native white—Foreign parentage.....	32,283	2,376	2,550	4,125	3,168	2,911	3,482	3,097	2,500	2,487	2,163	3,434
Native white—Mixed parentage.....	10,818	435	422	622	891	1,215	1,389	1,264	964	1,265	892	1,459
Foreign-born white.....	32,104	2,471	2,411	4,128	3,121	2,638	4,085	3,228	2,294	3,021	1,950	2,767
Male.....	15,219	1,344	1,282	2,166	1,551	1,118	2,064	1,541	921	1,078	826	1,318
Female.....	16,885	1,127	1,129	1,962	1,570	1,520	2,021	1,687	1,363	1,943	1,124	1,439
Negro.....	5,334	8	3	241	775	187	944	1,804	401	262	361	368
Male.....	2,535	8	1	112	376	85	487	866	191	104	174	181
Female.....	2,799	2	2	129	399	102	507	938	210	148	187	177
Indian, Chinese, Japanese, and all other.....	110	3	9	4	5	10	10	14	29	16	1	9
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.												
Total under 7 years of age.....	14,676	1,135	1,088	1,872	1,374	911	1,821	1,623	906	1,400	1,007	1,539
Total 7 to 13 years, inclusive.....	13,264	901	974	1,616	1,357	830	1,578	1,505	957	1,176	904	1,406
Number attending school.....	12,889	836	901	1,588	1,335	797	1,529	1,457	930	1,127	947	1,382
Total 14 and 15 years.....	3,463	218	208	371	363	306	386	393	261	305	276	376
Number attending school.....	2,782	136	143	292	284	258	305	314	227	256	256	306
Total 16 and 17 years.....	3,478	202	239	345	349	317	395	374	281	316	257	403
Number attending school.....	1,463	40	74	117	125	178	140	161	125	172	172	159
Total 18 to 20 years, inclusive.....	5,430	307	288	486	516	614	580	586	471	581	440	561
Number attending school.....	1,005	19	80	52	40	137	83	93	126	204	141	80
Males 21 years of age and over.....	32,391	1,716	1,619	2,804	2,947	3,265	4,204	3,845	2,794	3,596	2,476	3,125
Native white—Native parentage.....	7,891	161	87	152	445	1,029	993	888	967	1,482	997	690
Native white—Foreign or mixed parentage.....	8,849	366	366	600	828	1,123	1,026	1,004	808	1,024	611	1,093
Foreign-born white.....	14,000	1,178	1,163	1,981	1,428	1,046	1,912	1,406	872	1,009	768	1,237
Naturalized.....	6,512	268	411	675	643	624	794	710	537	599	468	783
Negro.....	1,572	8	70	241	61	204	535	125	69	99	100	100
Females 21 years of age and over.....	36,992	1,831	1,470	2,574	2,874	4,158	4,163	4,162	3,069	5,422	3,408	3,471
Native white—Native parentage.....	9,761	71	89	147	375	1,229	964	970	1,456	2,318	1,395	737
Native white—Foreign or mixed parentage.....	9,919	309	364	602	844	1,425	1,038	1,023	1,056	1,160	825	1,273
Foreign-born white.....	15,490	951	1,014	1,743	1,404	1,429	1,859	1,550	1,302	1,831	1,063	1,344
Naturalized.....	7,058	212	344	668	670	769	836	828	634	751	541	805
Negro.....	1,821	2	80	251	73	302	618	143	111	125	116	116
Males 18 to 44 years, inclusive.....	23,227	1,329	1,244	2,183	2,161	2,210	3,064	2,824	1,915	2,425	1,672	2,200
Females 18 to 44 years, inclusive.....	25,723	1,060	1,154	2,076	2,156	2,772	2,910	2,902	2,480	3,534	2,238	2,441
ILLITERACY.												
Total 10 years of age and over.....	89,329	4,259	4,356	7,497	7,844	9,147	10,626	10,218	8,337	10,882	7,414	8,749
Number illiterate.....	2,736	318	420	841	180	65	250	204	35	199	40	184
Native white.....	53,290	1,854	1,983	3,237	4,155	6,353	5,881	5,549	5,703	7,657	5,195	5,723
Number illiterate.....	72	4	1	12	6	12	14	11	3	3	1	7
Foreign-born white.....	31,624	2,394	2,365	4,057	3,066	2,623	4,023	3,187	2,269	2,993	1,922	2,725
Number illiterate.....	2,547	312	418	825	151	51	222	147	21	195	33	172
Negro.....	4,314	8	3	199	618	161	712	1,468	337	217	296	295
Number illiterate.....	108	15	17	17	8	14	41	2	1	6	4	4
Total 16 to 20 years, inclusive.....	8,908	509	527	831	865	931	975	960	752	897	697	964
Number illiterate.....	32	6	5	9	2	2	3	3	3	3	2	2
Illiterate males 21 years of age and over.....	1,205	163	178	391	70	28	92	74	11	95	18	85
Native white.....	26	1	1	1	6	2	6	4	3	3	2	2
Foreign-born white.....	1,188	160	178	385	58	22	78	56	6	95	18	82
Negro.....	34	4	5	6	4	6	12	1	1	1	1	1
Illiterate females 21 years of age and over.....	1,484	148	236	440	108	36	155	121	23	100	22	95
Native white.....	31	1	1	1	5	3	4	6	7	1	1	2
Foreign-born white.....	1,382	147	234	430	92	29	143	90	15	98	15	89
Negro.....	70	10	11	11	4	8	25	1	1	1	6	4
DWELLINGS AND FAMILIES.												
Dwellings, number.....	15,113	680	833	1,225	1,167	1,250	1,752	1,837	1,390	1,947	1,394	1,688
Families, number.....	25,293	1,162	1,167	2,116	2,154	2,445	3,119	3,011	2,458	3,130	2,134	2,397
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.												
Armenia.....	401	8	125	26	34	46	89	13	9	23	18	18
Atlantic Islands.....	346	35	26	159	54	42	11	7	4	5	7	7
Austria.....	111	19	14	17	5	3	11	4	5	6	22	22
Canada—French.....	949	21	24	10	32	37	38	48	42	24	90	583
Canada—Other.....	6,744	115	141	225	530	946	1,083	1,057	599	776	577	695
Denmark.....	92	3	3	6	4	16	14	14	19	5	11	11
England.....	1,601	34	30	44	130	166	284	243	189	219	125	142
France.....	129	8	4	8	4	12	9	10	15	20	23	21
Germany.....	418	13	31	24	37	38	39	42	50	47	44	53
Greece.....	352	9	6	4	66	15	205	19	1	13	9	5
Ireland.....	8,448	412	691	976	822	740	664	712	985	1,059	594	793
Italy.....	2,730	511	324	437	182	29	298	199	69	376	141	164
Lithuania.....	1,946	47	85	591	145	1	460	11	1	5	1	1
Newfoundland.....	472	1	56	149	85	65	5	69	1	16	20	5
Norway.....	185	3	1	1	12	16	35	38	26	20	16	17
Poland.....	1,486	196	418	357	188	27	181	46	15	14	26	18
Portugal.....	1,946	923	441	323	60	65	33	19	22	24	16	20
Rumania.....	81	2	2	28	7	16	12	11	2	2	3	3
Russia.....	1,759	76	74	516	382	147	169	267	56	16	26	30
Scotland.....	822	19	10	34	104	89	159	109	66	101	68	63
Sweden.....	1,106	12	15	56	180	112	234	116	53	182	92	54
All other countries.....	580	20	12	41	54	44	99	92	64	72	46	36

1 Includes 309 persons born in the Azores.



## COMPOSITION AND CHARACTERISTICS.

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TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

FALL RIVER.										
SUBJECT.	THE CITY.	WARD.								
		1	2	3	4	5	6	7	8	9
COLOR OR RACE, NATIVITY, AND SEX.										
Total population.....	120,485	23,917	13,798	12,673	11,641	10,885	17,689	4,827	10,179	14,876
Male.....	57,918	11,575	6,685	6,170	5,371	5,400	8,683	2,397	4,455	7,177
Female.....	62,567	12,342	7,113	6,503	6,270	5,485	9,001	2,430	5,724	7,699
Native white.....	77,783	15,764	8,639	6,858	8,027	6,699	10,682	3,545	7,803	9,760
Male.....	37,382	7,718	4,182	3,263	3,738	3,275	5,320	1,745	3,443	4,098
Female.....	40,401	8,046	4,457	3,595	4,289	3,424	5,362	1,800	4,360	5,662
Native white—Native parentage.....	19,168	3,637	1,662	880	2,313	1,121	1,489	1,088	3,743	2,735
Native white—Foreign parentage.....	45,235	9,437	5,310	5,099	4,352	4,454	7,009	1,283	2,800	5,491
Native white—Mixed parentage.....	13,380	2,790	1,667	879	1,362	1,124	2,184	574	1,260	1,540
Foreign-born white.....	42,331	8,130	5,093	5,775	3,600	4,008	6,998	1,222	2,330	5,085
Male.....	20,334	3,840	2,462	2,884	1,622	2,085	3,300	620	995	2,466
Female.....	21,997	4,290	2,631	2,891	1,978	2,013	3,698	602	1,335	2,619
Negro.....	315	18	60	35	9	84	2	47	37	23
Male.....	152	12	35	18	3	37	1	20	12	11
Female.....	163	6	25	17	6	47	1	27	25	12
Indian, Chinese, and Japanese.....	56	5	6	5	5	4	7	13	9	2
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.										
Total under 7 years of age.....	18,980	4,024	2,262	2,247	1,625	1,026	3,089	354	1,115	2,338
Total 7 to 13 years, inclusive.....	17,998	3,707	2,064	1,973	1,554	1,060	2,958	452	1,213	2,267
Number attending school.....	17,506	3,683	2,024	1,925	1,526	1,033	2,875	442	1,193	2,205
Total 14 and 15 years.....	4,474	917	555	505	394	381	672	134	349	507
Number attending school.....	2,031	432	240	210	190	136	261	78	231	244
Total 16 and 17 years.....	4,446	934	517	449	399	308	687	148	351	503
Number attending school.....	960	223	112	74	98	44	89	58	129	133
Total 18 to 20 years, inclusive.....	6,332	1,315	680	678	567	570	968	235	530	789
Number attending school.....	717	178	70	48	83	26	67	43	116	86
Males 21 years of age and over.....	32,289	6,121	3,697	3,372	3,198	2,938	4,528	1,748	2,769	3,918
Native white—Native parentage.....	3,891	625	271	158	445	165	160	532	946	589
Native white—Foreign or mixed parentage.....	9,872	2,019	1,130	962	1,221	860	1,372	588	924	1,096
Foreign-born white.....	18,377	3,463	2,269	2,538	1,523	1,882	2,088	602	888	2,224
Naturalized.....	7,205	1,531	1,053	599	739	592	1,012	312	482	885
Negro.....	99	0	21	0	4	28	1	14	6	7
Females 21 years of age and over.....	30,056	6,899	4,023	3,440	3,004	3,012	4,787	1,756	3,852	4,434
Native white—Native parentage.....	4,500	752	316	139	493	154	140	585	1,230	742
Native white—Foreign or mixed parentage.....	11,610	2,232	1,290	829	1,541	1,036	1,414	569	1,365	1,334
Foreign-born white.....	19,768	3,952	2,402	2,471	1,889	1,789	3,223	580	1,232	2,350
Naturalized.....	7,654	1,603	1,004	524	876	636	1,095	301	574	921
Negro.....	113	3	15	10	1	32	1	21	22	8
Males 18 to 44 years, inclusive.....	23,068	4,513	2,630	2,553	2,188	2,133	3,456	1,005	1,770	2,801
Females 18 to 44 years, inclusive.....	26,339	5,224	2,962	2,772	2,706	2,256	3,716	1,040	2,471	3,186
ILLITERACY.										
Total 10 years of age and over.....	93,556	18,287	10,684	9,521	9,292	8,219	13,281	4,283	8,514	11,525
Number illiterate.....	11,178	1,559	1,248	2,286	691	1,117	2,212	125	423	1,617
Native white.....	51,520	10,267	5,557	3,814	5,707	4,108	6,402	3,007	6,166	6,492
Number illiterate.....	509	62	41	34	57	111	127	13	51	13
Foreign-born white.....	41,736	8,001	5,033	5,677	3,673	4,039	6,870	1,221	2,300	5,013
Number illiterate.....	10,632	1,490	1,189	2,250	681	1,004	2,085	107	408	1,462
Negro.....	245	14	38	25	7	68	2	42	31	18
Number illiterate.....	27	15	1	2	1	1	2	2	2	4
Total 16 to 20 years, inclusive.....	10,778	2,240	1,197	1,127	966	908	1,655	383	881	1,362
Number illiterate.....	341	42	28	61	11	40	79	1	18	61
Illiterate males 21 years of age and over.....	4,908	677	550	1,033	295	456	960	54	176	707
Native white.....	153	23	16	14	22	10	46	1	3	18
Foreign-born white.....	4,730	653	520	1,017	271	445	914	50	173	687
Negro.....	15	11	1	1	1	1	1	1	1	2
Illiterate females 21 years of age and over.....	5,869	832	607	1,190	383	616	1,142	70	227	742
Native white.....	271	28	22	16	26	94	46	12	9	18
Foreign-born white.....	5,598	804	641	1,174	356	521	1,096	58	216	722
Negro.....	12	4	4	1	1	1	2	2	2	2
DWELLINGS AND FAMILIES.										
Dwellings, number.....	13,807	2,686	1,681	1,283	1,278	1,124	1,025	738	1,489	1,903
Families, number.....	26,399	6,139	2,944	2,550	2,814	2,421	3,579	1,185	2,470	3,207
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.										
Atlantic Islands.....	16,401	306	571	1,099	100	733	1,023	10	83	1,576
Austria.....	280	36	32	60	74	43	8	1	2	4
Canada—French.....	10,734	2,205	1,252	942	946	752	3,077	242	229	1,089
Canada—Other.....	858	133	160	28	59	130	45	83	132	88
England.....	7,968	1,736	1,364	369	788	597	1,156	367	600	991
France.....	124	20	28	4	10	7	11	11	15	9
Germany.....	135	27	17	8	6	7	25	8	15	22
Greece.....	149	10	7	31	21	6	7	28	28	11
Ireland.....	3,201	568	385	319	646	248	94	260	427	254
Italy.....	945	98	206	6	16	530	27	13	46	3
Poland.....	2,525	832	498	366	454	241	72	45	7	10
Portugal.....	5,683	1,626	380	1,016	196	360	671	28	536	880
Russia.....	1,661	241	65	521	166	278	203	55	30	42
Scotland.....	600	140	67	24	70	35	80	34	90	60
South America.....	109	11	10	30	3	11	12	1	9	22
Syria.....	582	51	30	6	13	77	400	1	1	3
All other countries.....	416	81	21	46	32	43	27	35	80	51

1 Includes 5,809 persons born in the Azores and 507 born in the Cape Verde Islands.



## POPULATION—MASSACHUSETTS.

TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	HAVERHILL.							
	THE CITY.	WARD.						
		1	2	3	4	5	6	7
COLOR OR RACE, NATIVITY, AND SEX.								
Total population.....	53,884	3,183	2,936	3,754	5,675	18,971	10,537	8,828
Male.....	26,490	1,620	1,339	2,030	2,713	9,833	4,787	4,168
Female.....	27,394	1,563	1,597	1,724	2,962	9,138	5,750	4,660
Native white.....	40,188	2,535	2,274	2,359	4,835	12,132	8,738	7,265
Male.....	19,461	1,283	1,021	1,190	2,391	6,128	4,004	3,444
Female.....	20,727	1,302	1,253	1,169	2,444	6,004	4,734	3,821
Native white—Native parentage.....	21,573	1,800	1,576	1,015	3,456	3,689	5,496	4,541
Native white—Foreign parentage.....	12,794	477	407	1,009	728	6,540	2,068	1,565
Native white—Mixed parentage.....	5,821	308	291	335	651	1,903	1,174	1,159
Foreign-born white.....	13,307	577	488	1,373	815	6,817	1,704	1,533
Male.....	6,829	317	231	823	312	3,693	744	709
Female.....	6,478	260	257	550	503	3,124	960	824
Negro.....	361	8	172	17	21	19	95	29
Male.....	174	7	85	12	8	9	39	14
Female.....	187	1	87	5	13	10	56	15
Chinese.....	28	13	2	5	4	3	.....	1
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.								
Total under 7 years of age.....	6,951	146	181	376	672	3,427	1,147	1,002
Total 7 to 13 years, inclusive.....	6,186	144	230	313	643	2,742	1,106	1,008
Number attending school.....	5,945	131	227	292	611	2,663	1,067	954
Total 14 and 15 years.....	1,685	59	71	102	171	682	291	309
Number attending school.....	1,159	34	54	58	133	398	238	244
Total 16 and 17 years.....	1,616	70	76	84	175	657	298	255
Number attending school.....	560	22	36	22	72	167	127	114
Total 18 to 20 years, inclusive.....	2,541	134	103	196	240	903	517	388
Number attending school.....	304	5	14	13	33	71	98	70
Males 21 years of age and over.....	16,962	1,360	1,019	1,484	1,742	5,536	3,138	2,683
Native white—Native parentage.....	6,695	729	521	358	1,111	933	1,636	1,357
Native white—Foreign or mixed parentage.....	3,804	306	220	355	325	1,173	784	641
Foreign-born white.....	6,314	305	215	761	301	3,368	690	674
Naturalized.....	2,611	124	94	177	158	1,224	434	400
Negro.....	124	7	61	5	4	9	28	10
Females 21 years of age and over.....	17,943	1,270	1,256	1,199	2,032	4,964	4,040	3,182
Native white—Native parentage.....	7,503	738	708	329	1,188	911	2,053	1,598
Native white—Foreign or mixed parentage.....	4,355	284	247	364	373	1,276	1,014	797
Foreign-born white.....	5,958	247	246	502	481	2,770	935	777
Naturalized.....	2,953	131	138	184	259	1,153	577	511
Negro.....	127	1	57	4	10	7	38	10
Males 18 to 44 years, inclusive.....	11,702	881	609	1,126	1,009	4,319	1,993	1,765
Females 18 to 44 years, inclusive.....	12,203	805	609	874	1,265	3,971	2,531	2,058
ILLITERACY.								
Total 10 years of age and over.....	44,341	2,990	2,677	3,248	4,752	14,314	8,949	7,411
Number illiterate.....	1,382	29	36	114	48	1,032	77	46
Native white.....	30,887	2,393	2,036	1,873	3,922	7,572	7,181	5,860
Number illiterate.....	95	3	1	5	25	22	17	22
Foreign-born white.....	13,165	576	486	1,359	806	6,720	1,692	1,526
Number illiterate.....	1,269	19	32	109	23	1,009	55	22
Negro.....	311	8	153	11	20	19	76	24
Number illiterate.....	11	.....	3	.....	.....	1	5	2
Total 16 to 20 years, inclusive.....	4,157	204	179	280	415	1,620	815	644
Number illiterate.....	17	2	.....	2	1	10	1	1
Illiterate males 21 years of age and over.....	547	17	10	48	16	408	30	18
Native white.....	36	1	.....	3	7	9	6	10
Foreign-born white.....	501	9	9	45	9	399	22	8
Negro.....	3	.....	1	.....	.....	.....	2	.....
Illiterate females 21 years of age and over.....	811	10	26	63	30	611	45	26
Native white.....	47	2	1	1	16	8	9	10
Foreign-born white.....	756	8	23	62	14	602	33	14
Negro.....	8	.....	2	.....	.....	1	3	2
DWELLINGS AND FAMILIES.								
Dwellings, number.....	9,165	399	517	475	1,225	2,572	2,055	1,922
Families, number.....	12,814	864	790	852	1,406	4,014	2,664	2,224
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.								
Armenia.....	325	13	9	20	6	251	15	11
Austria.....	79	.....	6	1	8	60	3	1
Canada—French.....	2,662	180	48	279	163	1,678	178	156
Canada—Other.....	1,962	126	134	162	278	242	534	496
Denmark.....	40	.....	2	2	8	3	14	11
England.....	665	38	39	42	99	134	154	159
France.....	40	3	1	5	2	24	.....	5
Germany.....	77	3	2	2	12	17	16	25
Greece.....	1,273	90	22	602	12	467	51	29
Ireland.....	1,649	84	103	157	124	267	562	352
Italy.....	1,701	16	12	33	10	1,498	26	106
Lithuania.....	453	.....	3	1	.....	437	12	.....
Poland.....	640	6	3	6	6	590	21	8
Russia.....	1,223	10	58	13	13	1,040	40	49
Scotland.....	223	9	25	6	31	30	36	86
Sweden.....	60	3	6	2	19	6	12	12
Syria.....	45	1	.....	31	.....	12	1	.....
All other countries.....	190	15	15	19	24	61	29	27



## COMPOSITION AND CHARACTERISTICS.

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TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	HOLYOKE.							
	THE CITY.	WARD.						
		1	2	3	4	5	6	7
COLOR OR RACE, NATIVITY, AND SEX.								
Total population.....	60,203	9,114	8,996	11,912	7,466	5,848	7,529	9,538
Male.....	28,901	4,450	4,448	5,782	3,674	2,628	3,573	4,340
Female.....	31,302	4,658	4,548	6,130	3,792	3,020	3,956	5,198
Native white.....	39,776	5,764	5,220	8,191	4,281	4,068	4,796	7,456
Male.....	19,171	2,844	2,550	3,975	2,087	1,952	2,289	3,405
Female.....	20,605	2,920	2,661	4,216	2,194	2,116	2,507	3,991
Native white—Native parentage.....	10,994	1,131	894	2,488	277	1,174	1,351	3,049
Native white—Foreign parentage.....	21,901	3,469	3,259	4,207	3,694	2,241	2,539	2,492
Native white—Mixed parentage.....	6,881	1,164	1,067	1,496	310	653	876	1,315
Foreign-born white.....	20,255	3,302	3,769	3,699	3,183	1,560	2,666	2,076
Male.....	9,622	1,582	1,883	1,792	1,585	663	1,244	873
Female.....	10,633	1,720	1,886	1,907	1,598	897	1,422	1,203
Negro.....	146	46	3	21	1	14	57	4
Male.....	83	28	2	14	1	8	30	4
Female.....	63	18	1	7	—	6	27	—
Chinese.....	26	2	4	1	1	6	10	2
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.								
Total under 7 years of age.....	8,549	1,417	1,330	1,725	1,610	567	824	1,076
Total 7 to 13 years, inclusive.....	7,937	1,302	1,318	1,705	1,183	603	801	1,025
Number attending school.....	7,559	1,237	1,256	1,646	1,109	586	719	1,006
Total 14 and 15 years.....	2,088	371	360	390	267	184	233	277
Number attending school.....	1,320	204	184	276	144	150	133	249
Total 16 and 17 years.....	2,117	391	351	403	228	211	255	278
Number attending school.....	813	154	40	156	63	116	78	200
Total 18 to 20 years, inclusive.....	3,253	592	512	598	310	330	435	476
Number attending school.....	550	143	13	90	31	59	44	170
Males 21 years of age and over.....	17,179	2,479	2,593	3,353	1,943	1,698	2,361	2,752
Native white—Native parentage.....	2,567	223	131	490	50	313	366	994
Native white—Foreign or mixed parentage.....	5,627	823	786	1,170	372	731	812	983
Foreign-born white.....	8,905	1,408	1,671	1,683	1,519	647	1,153	824
Naturalized.....	3,887	496	485	986	320	395	574	631
Negro.....	60	23	2	9	1	4	21	—
Females 21 years of age and over.....	19,080	2,562	2,526	3,738	1,925	2,055	2,620	3,654
Native white—Native parentage.....	2,764	173	117	559	30	328	360	1,182
Native white—Foreign or mixed parentage.....	6,574	888	769	1,399	402	875	939	1,322
Foreign-born white.....	9,698	1,508	1,639	1,775	1,487	849	1,294	1,146
Naturalized.....	4,033	555	495	965	318	425	579	699
Negro.....	44	13	1	5	—	3	18	4
Males 18 to 44 years, inclusive.....	12,710	1,985	1,985	2,390	1,558	1,200	1,707	1,825
Females 18 to 44 years, inclusive.....	14,400	2,073	2,010	2,808	1,624	1,492	1,963	2,499
ILLITERACY.								
Total 10 years of age and over.....	48,166	7,151	7,093	9,410	5,284	4,843	6,364	8,021
Number illiterate.....	2,487	606	514	343	717	109	180	18
Native white.....	28,052	3,881	3,396	5,734	2,131	3,278	3,670	5,962
Number illiterate.....	109	45	17	14	7	3	22	1
Foreign-born white.....	19,973	3,228	3,690	3,658	3,151	1,554	2,639	2,053
Number illiterate.....	2,372	560	496	320	710	106	155	16
Negro.....	118	40	3	17	1	8	45	4
Number illiterate.....	4	—	—	—	—	—	3	1
Total 16 to 20 years, inclusive.....	5,370	983	863	1,001	538	541	690	754
Number illiterate.....	29	7	2	2	7	1	9	1
Illiterate males 21 years of age and over.....	1,093	285	253	145	296	42	67	5
Native white.....	48	19	7	7	2	2	10	1
Foreign-born white.....	1,042	265	245	138	294	40	56	4
Negro.....	1	—	—	—	—	—	1	—
Illiterate females 21 years of age and over.....	1,359	313	257	195	413	66	104	11
Native white.....	53	25	10	5	3	1	9	—
Foreign-born white.....	1,303	288	247	190	410	65	93	10
Negro.....	3	—	—	—	—	—	2	1
DWELLINGS AND FAMILIES.								
Dwellings, number.....	5,706	524	541	1,475	478	557	538	1,593
Families, number.....	12,948	1,809	1,931	2,539	1,455	1,227	1,705	2,282
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.								
Austria.....	546	27	67	133	235	14	45	25
Belgium.....	49	—	18	4	3	3	4	17
Canada—French.....	5,806	1,935	2,231	322	247	260	540	271
Canada—Other.....	658	47	94	175	19	41	122	160
Czechoslovakia.....	46	2	5	12	17	1	2	7
Denmark.....	43	—	3	16	—	4	3	17
England.....	1,249	42	41	454	7	93	260	352
France.....	428	9	169	64	1	8	157	30
Germany.....	1,011	11	114	603	6	26	129	122
Greece.....	253	3	185	27	3	1	88	1
Ireland.....	4,261	730	155	705	620	685	790	576
Italy.....	363	32	64	18	15	63	132	44
Lithuania.....	74	1	32	36	3	—	1	—
Poland.....	2,701	207	144	351	1,681	210	44	64
Portugal.....	194	151	—	19	9	2	13	—
Russia.....	1,361	50	416	333	287	68	72	135
Scotland.....	991	88	19	380	6	67	275	206
Sweden.....	69	4	5	18	1	2	10	21
All other countries.....	162	13	17	31	23	12	29	27



TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	LAWRENCE.						
	THE CITY.	WARD.					
		1	2	3	4	5	6
COLOR OR RACE, NATIVITY, AND SEX.							
Total population	94,270	16,621	14,967	14,549	13,066	18,121	16,946
Male	46,881	8,164	7,470	7,642	6,743	8,734	8,128
Female	47,389	8,457	7,497	6,907	6,323	9,387	8,818
Native white	54,929	8,839	8,532	7,717	7,306	11,357	11,178
Male	26,841	4,249	4,105	3,953	3,659	5,450	5,416
Female	28,088	4,590	4,427	3,764	3,647	5,898	5,762
Native white—Native parentage	12,325	1,845	1,675	1,010	1,599	2,854	3,342
Native white—Foreign parentage	34,605	6,025	5,871	5,971	4,605	6,254	5,879
Native white—Mixed parentage	7,999	969	986	736	1,102	2,249	1,957
Foreign-born white	39,063	7,762	6,427	6,812	5,678	6,624	5,760
Male	19,839	3,904	3,359	3,672	3,006	3,190	2,708
Female	19,224	3,858	3,068	3,140	2,672	3,434	3,052
Negro	219	15	5	12	46	136	5
Male	142	6	3	9	42	81	1
Female	77	9	2	3	4	55	4
Chinese	59	5	3	8	36	4	3
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.							
Total under 7 years of age	14,532	2,785	2,537	2,515	1,746	2,510	2,430
Total 7 to 13 years, inclusive	12,505	2,226	1,971	2,086	1,551	2,390	2,281
Number attending school	11,838	2,120	1,914	2,016	1,457	2,206	2,125
Total 14 and 15 years	3,134	553	412	432	446	649	642
Number attending school	1,673	302	251	202	231	324	363
Total 16 and 17 years	3,057	471	440	396	412	688	650
Number attending school	769	122	149	62	114	143	179
Total 18 to 20 years, inclusive	4,455	736	644	575	618	959	923
Number attending school	503	91	103	43	74	88	99
Males 21 years of age and over	28,275	4,871	4,473	4,566	4,332	5,267	4,766
Native white—Native parentage	2,988	419	392	279	398	675	825
Native white—Foreign or mixed parentage	7,092	914	1,030	893	1,101	1,639	1,515
Foreign-born white	18,020	3,532	3,045	3,378	2,758	2,884	2,423
Naturalized	6,591	1,145	1,048	967	930	1,290	1,211
Negro	118	1	3	8	41	65	—
Females 21 years of age and over	28,312	4,979	4,490	3,979	3,961	5,658	5,245
Native white—Native parentage	3,108	509	484	199	394	762	820
Native white—Foreign or mixed parentage	7,933	1,119	1,261	927	1,140	1,811	1,675
Foreign-born white	17,156	3,345	2,743	2,851	2,423	3,047	2,747
Naturalized	6,506	1,122	1,003	790	914	1,377	1,300
Negro	55	6	2	2	4	38	3
Males 18 to 44 years, inclusive	20,811	3,620	3,273	3,465	3,112	3,887	3,454
Females 18 to 44 years, inclusive	21,339	3,911	3,380	3,106	2,851	4,170	3,921
ILLITERACY.							
Total 10 years of age and over	74,106	12,829	11,515	11,063	10,623	14,580	13,506
Number illiterate	7,105	1,655	1,597	1,913	1,152	301	487
Native white	35,387	5,204	5,173	4,296	4,949	7,957	7,808
Number illiterate	113	6	7	17	35	24	24
Foreign-born white	38,463	7,609	6,334	6,739	5,593	6,497	5,691
Number illiterate	6,952	1,649	1,589	1,890	1,085	276	463
Negro	197	11	5	10	45	122	4
Number illiterate	31	—	—	6	25	—	—
Total 16 to 20 years, inclusive	7,512	1,207	1,084	971	1,030	1,647	1,573
Number illiterate	138	44	27	40	13	4	10
Illiterate males 21 years of age and over	3,072	664	658	781	619	141	209
Native white	40	1	1	3	15	9	11
Foreign-born white	2,993	663	656	772	573	131	198
Negro	30	—	—	6	24	—	—
Illiterate females 21 years of age and over	3,864	943	909	1,087	514	150	261
Native white	50	3	4	11	15	8	9
Foreign-born white	3,813	940	905	1,076	498	142	252
Negro	1	—	—	—	1	—	—
DWELLINGS AND FAMILIES.							
Dwellings, number	12,700	2,085	1,799	1,408	1,509	3,083	2,816
Families, number	19,715	3,529	2,970	2,752	2,757	4,021	3,086
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.							
Armenia	663	122	104	187	155	28	7
Austria	427	202	16	9	142	17	41
Belgium	416	32	13	27	11	194	139
Canada—French	5,970	59	59	194	1,510	2,857	1,201
Canada—Other	1,571	176	188	208	183	434	382
England	4,240	519	449	443	762	1,050	1,017
France	879	164	37	62	39	277	300
Germany	1,644	1,083	254	95	103	30	79
Greece	354	4	4	35	189	105	17
Ireland	4,250	549	813	967	558	383	986
Italy	8,493	3,257	3,261	1,338	76	80	481
Lithuania	1,874	523	505	546	227	26	47
Poland	2,505	668	215	406	655	223	335
Portugal	491	18	14	335	58	35	81
Russia	2,102	197	243	414	603	537	108
Scotland	1,067	117	120	117	104	234	375
Sweden	74	10	7	7	13	10	27
Syria	1,679	7	14	1,381	207	33	32
All other countries	358	55	51	41	83	66	62



TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	LOWELL.									
	THE CITY.	WARD.								
		1	2	3	4	5	6	7	8	9
COLOR OR RACE, NATIVITY, AND SEX.										
Total population.....	112,759	9,933	12,931	13,180	9,816	9,273	22,002	12,414	12,046	11,164
Male.....	54,271	4,986	6,774	6,410	4,746	4,515	10,406	5,665	5,741	5,028
Female.....	58,488	4,947	6,157	6,770	5,070	4,758	11,596	6,749	6,305	6,136
Native white.....	74,469	6,932	6,360	9,667	6,100	5,735	13,217	8,899	9,453	8,106
Male.....	35,632	3,455	3,140	4,676	2,907	2,750	6,321	4,078	4,547	3,758
Female.....	38,837	3,477	3,220	4,991	3,193	2,985	6,896	4,821	4,906	4,348
Native white—Native parentage.....	24,676	2,907	1,137	4,537	1,566	1,370	2,182	3,003	4,804	3,170
Native white—Foreign parentage.....	37,041	2,731	4,473	3,451	3,650	3,570	8,500	4,153	3,135	3,369
Native white—Mixed parentage.....	12,752	1,294	750	1,679	884	786	2,535	1,743	1,514	1,567
Foreign-born white.....	38,040	2,953	6,519	3,490	3,683	3,522	8,759	3,508	2,584	3,022
Male.....	18,466	1,486	3,504	1,718	1,820	1,756	4,073	1,583	1,188	1,248
Female.....	19,574	1,467	2,925	1,772	1,863	1,766	4,686	1,925	1,396	1,774
Negro.....	170	9	45	19	26	6	19	6	9	31
Male.....	100	7	33	12	12	2	5	3	6	20
Female.....	70	2	12	7	14	4	14	3	3	11
Chinese and all other.....	80	39	7	4	7	10	7	1	.....	5
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.										
Total under 7 years of age.....	16,152	1,031	2,170	1,577	1,531	1,514	3,814	1,675	1,514	1,326
Total 7 to 13 years, inclusive.....	14,017	930	1,469	1,442	1,194	1,165	3,190	1,836	1,531	1,260
Number attending school.....	13,590	911	1,410	1,396	1,165	1,139	3,054	1,800	1,485	1,280
Total 14 and 15 years.....	3,632	232	345	399	311	313	779	471	391	341
Number attending school.....	3,651	216	251	329	235	229	445	339	332	275
Total 16 and 17 years.....	3,660	274	360	436	299	271	823	454	341	402
Number attending school.....	3,325	124	110	188	106	81	173	171	189	183
Total 18 to 20 years, inclusive.....	5,501	468	623	626	427	393	1,195	658	561	550
Number attending school.....	785	71	67	103	91	33	72	100	137	111
Males 21 years of age and over.....	33,512	3,498	4,366	4,150	2,957	2,786	5,790	3,240	3,554	3,171
Native white—Native parentage.....	6,282	941	289	1,386	817	280	374	566	1,325	795
Native white—Foreign or mixed parentage.....	9,970	1,101	759	1,147	944	822	1,729	1,203	1,089	1,170
Foreign-born white.....	17,119	1,414	3,286	1,603	1,682	1,667	3,077	1,468	1,135	1,187
Naturalized.....	7,090	718	567	883	645	610	1,218	881	757	811
Negro.....	72	6	26	10	7	2	3	2	5	11
Females 21 years of age and over.....	36,285	3,450	3,598	4,550	3,097	2,831	6,411	4,080	4,154	4,114
Native white—Native parentage.....	7,153	967	283	1,590	320	269	383	784	1,571	980
Native white—Foreign or mixed parentage.....	11,177	1,093	782	1,324	1,052	892	1,860	1,512	1,248	1,405
Foreign-born white.....	17,904	1,387	2,522	1,632	1,719	1,665	4,140	1,782	1,333	1,715
Naturalized.....	7,628	699	511	905	731	653	1,385	923	833	988
Negro.....	48	2	11	4	6	4	10	2	2	7
Males 18 to 44 years, inclusive.....	23,593	2,216	3,257	2,753	2,248	2,035	4,412	2,303	2,265	2,103
Females 18 to 44 years, inclusive.....	25,905	2,267	2,901	2,952	2,261	2,117	5,049	2,883	2,703	2,772
ILLITERACY.										
Total 10 years of age and over.....	90,509	8,525	10,092	10,889	7,761	7,229	16,764	9,934	9,867	9,348
Number illiterate.....	6,231	265	2,030	226	823	1,057	1,348	246	94	142
Native white.....	52,739	5,547	3,640	7,508	4,097	3,724	8,142	6,467	7,290	6,324
Number illiterate.....	245	26	24	12	4	17	117	8	15	22
Foreign-born white.....	37,549	2,931	6,402	3,462	3,637	3,491	8,599	3,402	2,569	2,906
Number illiterate.....	5,960	233	2,002	210	819	1,036	1,228	237	78	117
Negro.....	144	8	43	15	20	6	16	4	8	24
Number illiterate.....	6	1	1	1	1	1	1	1	1	2
Total 16 to 20 years, inclusive.....	9,161	742	983	1,062	726	604	2,018	1,112	902	952
Number illiterate.....	187	6	118	1	14	15	27	3	1	2
Illiterate males 21 years of age and over.....	2,784	132	832	102	400	515	617	98	34	54
Native white.....	87	11	8	2	4	2	48	3	4	9
Foreign-born white.....	2,677	115	821	97	400	510	567	94	30	43
Negro.....	3	1	1	1	1	1	1	1	1	2
Illiterate females 21 years of age and over.....	3,217	126	1,076	121	406	511	695	144	58	80
Native white.....	119	13	12	8	3	11	51	3	9	9
Foreign-born white.....	3,093	113	1,064	112	403	499	643	141	48	70
Negro.....	3	1	1	1	1	1	1	1	1	2
DWELLINGS AND FAMILIES.										
Dwellings, number.....	17,488	1,659	1,379	2,412	1,333	1,329	2,677	2,052	2,594	2,153
Families, number.....	25,034	2,157	2,855	3,163	2,231	2,145	4,617	2,478	2,819	2,609
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.										
Armenia.....	357	51	20	32	94	124	32	.....	.....	4
Atlantic Islands.....	1,402	1	.....	23	315	28	.....	.....	6	28
Belgium.....	197	22	62	.....	2	.....	95	9	3	4
Canada—French.....	10,180	535	1,078	650	116	179	5,456	1,775	208	283
Canada—Other.....	3,602	554	247	865	158	140	363	388	545	342
England.....	3,614	456	142	346	307	311	565	277	448	702
France.....	90	12	9	8	.....	3	30	11	11	6
Germany.....	133	16	8	19	2	5	18	9	51	5
Greece.....	3,733	87	3,087	20	28	16	304	163	16	12
Ireland.....	7,453	690	907	402	1,199	1,115	704	729	664	1,133
Italy.....	431	34	18	74	218	43	20	3	9	12
Jugo-Slavia.....	155	.....	142	5	.....	1	2	.....	3	2
Lithuania.....	787	15	44	44	315	367	33	.....	.....	13
Poland.....	2,298	200	304	109	192	527	902	7	19	38
Portugal.....	1,666	102	343	41	437	513	64	5	137	24
Russia.....	916	38	20	638	73	28	26	6	81	6
Scotland.....	916	132	29	152	87	77	81	55	150	153
Sweden.....	523	32	8	57	23	7	12	80	158	196
Syria.....	93	18	34	22	3	2	4	9	.....	1
All other countries.....	494	48	61	83	54	36	47	32	75	58



TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	LYNN.							
	THE CITY.	WARD.						
		1	2	3	4	5	6	7
COLOR OR RACE, NATIVITY, AND SEX.								
Total population.....	99,148	3,398	6,656	20,619	17,690	20,900	24,351	5,534
Male.....	48,874	1,691	3,153	9,543	8,926	10,354	12,438	2,769
Female.....	50,274	1,707	3,503	11,076	8,764	10,546	11,913	2,765
Native white.....	70,349	2,813	5,417	16,227	12,804	13,671	15,479	3,938
Male.....	34,565	1,417	2,605	7,675	6,331	6,724	7,831	1,982
Female.....	35,784	1,396	2,812	8,552	6,473	6,947	7,648	1,956
Native white—Native parentage.....	33,988	1,899	3,342	9,650	6,889	5,775	4,818	1,615
Native white—Foreign parentage.....	24,772	445	1,135	3,791	3,824	5,837	8,147	1,593
Native white—Mixed parentage.....	11,589	469	940	2,786	2,091	2,059	2,514	730
Foreign-born white.....	27,858	577	1,195	4,028	4,745	7,079	8,655	1,579
Male.....	13,782	269	520	1,685	2,469	3,554	4,496	780
Female.....	14,076	308	666	2,343	2,276	3,525	4,159	799
Negro.....	812	7	43	358	51	127	209	17
Male.....	404	4	18	177	36	59	103	7
Female.....	408	3	25	181	15	68	106	10
Indian and Chinese.....	129	1	1	6	90	23	8	—
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.								
Total under 7 years of age.....	12,535	459	838	2,511	1,547	2,507	3,844	829
Total 7 to 13 years, inclusive.....	11,563	425	831	2,348	1,574	2,336	3,273	776
Number attending school.....	11,164	415	762	2,264	1,507	2,272	3,206	738
Total 14 and 15 years.....	2,846	110	202	567	391	593	770	213
Number attending school.....	2,368	94	179	481	318	492	624	180
Total 16 and 17 years.....	2,826	75	200	556	404	602	816	173
Number attending school.....	1,206	30	98	275	179	255	290	79
Total 18 to 20 years, inclusive.....	4,432	130	296	882	661	1,013	1,185	265
Number attending school.....	634	16	51	162	112	129	119	45
Males 21 years of age and over.....	31,922	1,066	2,007	6,227	6,660	6,855	7,488	1,019
Native white—Native parentage.....	10,805	609	1,036	2,835	2,443	1,951	1,423	458
Native white—Foreign or mixed parentage.....	8,056	201	470	1,656	1,773	1,640	1,871	445
Foreign-born white.....	12,694	251	489	1,680	2,334	3,211	4,119	710
Naturalized.....	6,146	187	260	933	1,103	1,497	1,717	449
Negro.....	260	4	11	101	32	39	67	6
Females 21 years of age and over.....	33,024	1,133	2,282	7,528	6,463	6,994	6,975	1,059
Native white—Native parentage.....	11,266	613	1,118	3,285	2,493	1,991	1,334	427
Native white—Foreign or mixed parentage.....	8,687	220	534	1,942	1,816	1,821	1,867	487
Foreign-born white.....	12,825	293	614	2,179	2,133	3,145	3,722	739
Naturalized.....	6,796	213	395	1,289	1,116	1,554	1,791	490
Negro.....	243	2	16	122	11	34	52	6
Males 18 to 44 years, inclusive.....	22,200	647	1,298	4,013	4,404	5,022	5,676	1,140
Females 18 to 44 years, inclusive.....	22,435	727	1,421	4,700	4,222	4,848	5,343	1,174
ILLITERACY.								
Total 10 years of age and over.....	81,526	2,754	5,465	17,075	15,482	17,342	19,048	4,360
Number illiterate.....	1,989	18	44	210	196	514	991	16
Native white.....	53,219	2,172	4,246	12,800	10,637	10,211	10,364	2,789
Number illiterate.....	82	9	5	25	22	7	13	1
Foreign-born white.....	27,544	574	1,183	3,988	4,708	7,012	8,521	1,558
Number illiterate.....	1,850	9	38	161	156	501	970	15
Negro.....	639	7	35	281	47	101	155	13
Number illiterate.....	35	—	1	23	2	4	5	—
Total 16 to 20 years, inclusive.....	7,258	205	496	1,438	1,065	1,615	2,001	438
Number illiterate.....	23	3	—	2	4	5	8	1
Illiterate males 21 years of age and over.....	813	7	16	69	104	212	401	4
Native white.....	32	2	1	12	9	1	7	—
Foreign-born white.....	747	5	15	48	77	209	389	4
Negro.....	14	—	—	8	2	2	2	—
Illiterate females 21 years of age and over.....	1,130	7	23	135	82	206	576	11
Native white.....	26	3	—	9	6	5	3	—
Foreign-born white.....	1,082	4	23	111	76	287	570	11
Negro.....	20	—	—	15	—	2	3	—
DWELLINGS AND FAMILIES.								
Dwellings, number.....	14,841	792	1,432	3,868	2,160	2,442	3,173	974
Families, number.....	23,308	909	1,705	5,413	4,034	4,705	5,309	1,233
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.								
Albania.....	85	—	—	1	27	57	—	—
Armenia.....	385	—	31	50	121	99	67	17
Austria.....	75	1	2	1	10	28	31	2
Canada—French.....	2,164	34	68	97	459	951	483	62
Canada—Other.....	7,382	307	622	1,785	1,464	1,227	1,568	409
Czechoslovakia.....	73	8	—	13	2	3	43	4
England.....	1,850	63	119	446	325	294	440	103
France.....	72	1	3	10	11	23	16	8
Germany.....	219	9	11	21	34	36	75	33
Greece.....	1,685	1	16	49	261	629	714	15
Ireland.....	4,527	54	134	672	708	765	1,846	348
Italy.....	1,943	22	31	389	462	689	341	9
Lithuania.....	340	—	4	2	9	115	196	14
Newfoundland.....	188	—	2	26	27	3	61	69
Norway.....	121	11	8	19	30	15	23	15
Poland.....	1,391	—	22	47	83	206	1,019	14
Russia.....	3,074	8	21	92	254	1,521	1,162	16
Scotland.....	692	13	14	107	84	135	256	83
Sweden.....	1,119	37	55	122	238	173	223	271
All other countries.....	473	8	32	79	136	100	91	27



## COMPOSITION AND CHARACTERISTICS.

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TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	NEW BEDFORD.						
	THE CITY.	WARD.					
		1	2	3	4	5	6
COLOR OR RACE, NATIVITY, AND SEX.							
Total population.....	121,217	28,205	20,743	12,542	12,345	18,618	28,764
Male.....	59,388	13,962	10,350	5,833	6,064	8,969	14,161
Female.....	61,829	14,243	10,384	6,709	6,281	9,649	14,603
Native white.....	67,453	14,538	11,383	9,153	8,574	10,316	13,459
Male.....	32,701	7,167	5,589	4,293	4,166	4,843	6,643
Female.....	34,752	7,371	5,794	4,860	4,408	5,473	6,816
Native white—Native parentage.....	26,098	2,171	2,398	4,945	5,240	3,942	1,404
Native white—Foreign parentage.....	36,379	9,023	6,879	2,720	2,255	4,917	8,985
Native white—Mixed parentage.....	10,976	2,744	2,106	1,488	1,079	1,457	2,102
Foreign-born white.....	48,689	13,026	9,322	2,654	2,047	5,837	15,203
Male.....	23,864	6,738	4,743	1,237	937	2,709	7,470
Female.....	24,825	6,288	4,579	1,417	1,110	3,128	7,733
Negro.....	4,998	39	35	726	1,675	2,458	65
Male.....	2,756	25	24	347	918	1,411	31
Female.....	2,242	14	11	379	757	1,047	34
Indian, Chinese, Japanese, and all other.....	77	2	3	9	49	7	7
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.							
Total under 7 years of age.....	17,870	4,701	3,311	1,409	1,238	2,637	4,574
Total 7 to 13 years, inclusive.....	15,578	3,821	2,801	1,435	1,252	2,254	4,015
Number attending school.....	14,945	3,619	2,666	1,412	1,200	2,162	3,886
Total 14 and 15 years.....	3,895	1,027	663	372	321	576	936
Number attending school.....	1,886	430	315	220	220	330	362
Total 16 and 17 years.....	3,936	1,040	627	375	292	568	1,034
Number attending school.....	770	123	120	127	127	168	115
Total 18 to 20 years, inclusive.....	9,310	1,649	1,018	564	537	925	1,617
Number attending school.....	596	115	97	81	85	127	91
Males 21 years of age and over.....	36,158	7,977	6,258	3,815	4,297	5,567	8,244
Native white—Native parentage.....	5,812	481	571	1,484	1,789	1,167	320
Native white—Foreign or mixed parentage.....	7,503	1,641	1,387	972	941	1,059	1,503
Foreign-born white.....	20,980	5,841	4,287	1,153	895	2,411	6,393
Naturalized.....	7,571	1,072	1,547	640	537	914	1,961
Negro.....	1,700	12	10	200	632	924	21
Females 21 years of age and over.....	37,470	7,990	6,065	4,572	4,408	6,091	8,344
Native white—Native parentage.....	6,450	432	548	1,857	1,926	1,456	231
Native white—Foreign or mixed parentage.....	8,269	1,729	1,453	1,199	973	1,307	1,608
Foreign-born white.....	21,500	5,821	4,058	1,317	1,052	2,768	6,490
Naturalized.....	7,700	2,021	1,502	730	578	918	1,957
Negro.....	1,241	8	6	197	456	559	15
Males 18 to 44 years, inclusive.....	27,249	6,367	4,857	2,493	2,867	4,104	6,561
Females 18 to 44 years, inclusive.....	28,137	6,678	4,725	2,870	2,767	4,358	6,739
ILLITERACY.							
Total 10 years of age and over.....	96,341	21,804	16,163	10,506	10,544	14,976	22,348
Number illiterate.....	11,631	2,801	1,752	447	523	2,340	3,768
Native white.....	44,849	8,433	6,989	7,335	7,123	7,464	7,505
Number illiterate.....	317	89	45	37	33	37	76
Foreign-born white.....	47,636	13,339	9,151	2,628	2,034	5,700	14,784
Number illiterate.....	10,330	2,709	1,704	331	203	1,066	3,687
Negro.....	3,781	30	20	534	1,340	1,805	52
Number illiterate.....	954	8	3	79	259	605	5
Total 16 to 20 years, inclusive.....	10,246	2,689	1,645	939	829	1,493	2,651
Number illiterate.....	496	163	62	6	23	73	169
Illiterate males 21 years of age and over.....	5,131	1,236	761	175	272	979	1,708
Native white.....	131	33	19	16	16	15	32
Foreign-born white.....	4,539	1,203	739	129	80	714	1,674
Negro.....	433	3	3	30	150	248	2
Illiterate females 21 years of age and over.....	5,933	1,371	920	265	227	1,269	1,881
Native white.....	143	45	20	20	14	14	35
Foreign-born white.....	5,295	1,325	900	198	115	914	1,843
Negro.....	490	1	47	47	98	341	3
DWELLINGS AND FAMILIES.							
Dwellings, number.....	14,961	2,751	2,168	2,287	2,353	2,669	2,733
Families, number.....	26,853	5,774	4,459	3,243	3,068	4,260	6,024
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.							
Albania.....	280	127	98	5	3	2	47
Atlantic Islands.....	9,772	301	424	125	261	3,138	5,433
Austria.....	186	42	64	14	10	13	43
Belgium.....	128	73	11	14	3	27	27
Canada—French.....	9,833	5,328	1,930	364	152	147	1,912
Canada—Other.....	1,157	298	129	233	218	182	97
Czechoslovakia.....	181	118	49	2	1	8	3
England.....	9,745	2,565	2,032	649	352	536	3,611
France.....	438	182	32	11	10	7	196
Germany.....	463	154	104	31	46	57	71
Greece.....	588	178	203	11	68	18	110
Ireland.....	2,027	130	449	399	387	356	306
Italy.....	631	127	94	275	90	7	38
Poland.....	2,902	648	1,259	58	15	196	726
Portugal.....	7,457	2,870	1,743	98	74	555	2,117
Russia.....	1,022	66	301	85	74	303	183
Scotland.....	541	66	135	73	68	64	185
South America.....	193	22	17	25	6	21	102
Sweden.....	263	9	27	44	107	60	16
Syria.....	300	87	91	86	13	14	9
All other countries.....	582	145	132	52	89	93	71

Includes 9,151 persons born in the Azores and 192 born in the Cape Verde Islands.



TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	SOMERVILLE.							
	THE CITY.	WARD.						
		1	2	3	4	5	6	7
COLOR OR RACE, NATIVITY, AND SEX.								
Total population.....	93,091	12,331	14,016	8,836	9,221	12,669	16,586	19,432
Male.....	44,350	6,125	6,919	4,121	4,354	5,908	7,807	9,116
Female.....	48,741	6,206	7,097	4,715	4,867	6,761	8,779	10,316
Native white.....	68,543	9,026	9,256	6,616	7,064	9,685	11,851	15,045
Male.....	32,668	4,479	4,474	3,096	3,358	4,546	5,593	7,112
Female.....	35,885	4,547	4,782	3,520	3,706	5,139	6,258	7,933
Native white—Native parentage.....	32,289	4,064	2,464	3,230	3,750	4,704	5,403	8,674
Native white—Foreign parentage.....	25,167	3,400	5,463	2,306	2,097	3,461	4,497	3,933
Native white—Mixed parentage.....	11,097	1,562	1,329	1,080	1,217	1,520	1,951	2,438
Foreign-born white.....	24,182	3,296	4,713	2,208	2,142	2,945	4,676	4,202
Male.....	11,506	1,638	2,423	1,020	989	1,338	2,186	1,912
Female.....	12,676	1,658	2,290	1,188	1,153	1,607	2,490	2,290
Negro.....	328	3	45	9	8	34	49	180
Male.....	153	2	20	2	2	19	21	87
Female.....	175	1	25	7	6	15	28	93
Indian, Chinese, and Japanese.....	38	6	2	3	7	5	10	5
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.								
Total under 7 years of age.....	12,400	1,924	2,463	921	1,208	1,621	2,069	2,194
Total 7 to 13 years, inclusive.....	10,875	1,489	2,177	862	1,000	1,497	1,869	1,981
Number attending school.....	10,319	1,410	2,119	815	925	1,447	1,724	1,879
Total 14 and 15 years.....	2,742	383	489	262	264	385	407	492
Number attending school.....	2,263	281	304	226	213	315	397	437
Total 16 and 17 years.....	2,814	365	490	277	253	386	400	553
Number attending school.....	1,337	122	172	161	125	184	253	320
Total 18 to 20 years, inclusive.....	4,269	582	663	453	417	565	766	823
Number attending school.....	832	78	63	119	91	116	160	205
Males 21 years of age and over.....	28,204	3,811	3,860	2,746	2,876	3,688	5,054	6,169
Native white—Native parentage.....	9,588	1,235	489	978	1,147	1,365	1,616	2,758
Native white—Foreign or mixed parentage.....	7,715	1,055	1,134	816	790	1,045	1,350	1,525
Foreign-born white.....	10,776	1,513	2,226	948	933	1,264	2,070	1,822
Naturalized.....	5,642	696	968	563	523	706	1,100	1,087
Negro.....	94	2	9	1	2	9	11	60
Females 21 years and over.....	31,787	3,777	3,874	3,315	3,203	4,527	5,871	7,220
Native white—Native parentage.....	10,790	1,146	489	1,241	1,246	1,687	1,856	3,125
Native white—Foreign or mixed parentage.....	9,059	1,117	1,280	967	882	1,306	1,666	1,841
Foreign-born white.....	11,828	1,513	2,097	1,103	1,071	1,524	2,333	2,187
Naturalized.....	6,563	782	993	684	693	855	1,218	1,338
Negro.....	110	1	3	4	4	10	16	67
Males 18 to 44 years, inclusive.....	19,393	2,775	2,930	1,847	1,935	2,404	3,415	4,087
Females 18 to 44 years, inclusive.....	21,488	2,737	2,967	2,054	2,143	2,878	3,928	4,781
ILLITERACY.								
Total 10 years of age and over.....	75,995	9,737	10,577	7,567	7,574	10,394	13,728	16,418
Number illiterate.....	1,311	215	470	31	34	185	282	94
Native white.....	51,859	6,492	5,936	5,383	5,445	7,451	9,057	12,095
Number illiterate.....	80	5	13	5	6	7	26	19
Foreign-born white.....	23,835	3,236	4,604	2,175	2,116	2,909	4,627	4,168
Number illiterate.....	1,218	207	456	26	28	178	255	68
Negro.....	265	3	35	6	7	29	35	150
Number illiterate.....	8	1	1	1	1	1	1	6
Total 16 to 20 years, inclusive.....	7,083	947	1,153	730	670	951	1,256	1,376
Number illiterate.....	18	5	5	1	1	1	4	2
Illiterate males 21 years of age and over.....	591	104	250	14	16	69	106	32
Native white.....	29	3	4	2	2	2	10	6
Foreign-born white.....	555	98	246	12	13	67	96	23
Negro.....	3	1	1	1	1	1	1	3
Illiterate females 21 years of age and over.....	691	106	213	17	17	115	170	53
Native white.....	37	2	7	3	2	5	13	5
Foreign-born white.....	649	104	205	14	15	110	156	45
Negro.....	5	1	1	1	1	1	1	3
DWELLINGS AND FAMILIES.								
Dwellings, number.....	15,112	1,998	1,867	1,415	1,594	2,255	2,627	3,356
Families, number.....	22,653	2,960	3,012	2,172	2,374	3,121	4,044	4,970
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.								
Armenia.....	208	27	37	5	30	5	51	53
Turkey in Asia.....	100	89	7	1	1	1	1	1
Atlantic Islands.....	1,239	13	129	15	3	35	32	12
Austria.....	82	13	9	3	7	3	6	41
Canada—French.....	317	28	55	32	22	22	40	118
Canada—Other.....	7,079	1,040	567	782	900	1,030	1,455	1,905
Denmark.....	144	15	6	11	24	18	28	42
England.....	1,335	179	139	120	149	149	291	308
France.....	108	16	24	10	12	6	24	16
Germany.....	311	35	58	36	29	41	54	58
Greece.....	327	164	48	12	20	3	12	68
Ireland.....	5,741	903	1,676	653	350	671	964	524
Italy.....	3,493	434	876	142	315	441	1,002	254
Lithuania.....	68	54	54	1	1	9	1	1
Newfoundland.....	395	18	153	90	11	24	54	45
Norway.....	165	13	14	4	11	25	46	52
Poland.....	214	10	94	9	22	13	35	31
Portugal.....	686	47	365	64	30	49	63	68
Russia.....	596	92	204	39	55	100	41	65
Scotland.....	899	83	75	109	69	129	223	211
Sweden.....	754	47	62	34	45	116	199	251
All other countries.....	356	30	62	38	38	53	65	80

1 Includes 227 persons born in the Azores.



## COMPOSITION AND CHARACTERISTICS.

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TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	SPRINGFIELD.								
	THE CITY.	WARD.							
		1	2	3	4	5	6	7	8
COLOR OR RACE, NATIVITY, AND SEX.									
Total population.....	129,614	10,110	22,466	13,143	14,788	12,625	13,061	14,714	22,709
Male.....	63,722	8,041	11,539	7,104	6,911	5,780	6,133	7,085	11,120
Female.....	65,892	8,069	10,927	6,039	7,875	6,845	6,928	7,629	11,589
Native white.....	95,549	11,970	13,827	8,831	11,045	10,175	10,034	12,558	17,109
Male.....	46,359	5,950	6,888	4,009	5,168	4,075	4,653	6,101	8,325
Female.....	49,190	6,020	6,939	4,822	5,877	5,500	5,381	6,457	8,784
Native white—Native parentage.....	48,945	5,351	4,541	4,286	6,090	6,723	5,631	8,074	8,243
Native white—Foreign parentage.....	32,991	4,641	7,586	3,423	3,261	2,298	3,010	2,782	5,981
Native white—Mixed parentage.....	13,613	1,978	1,700	1,122	1,688	1,154	1,384	1,702	2,885
Foreign-born white.....	31,250	4,091	7,829	3,729	2,956	2,118	2,871	2,131	5,525
Male.....	15,873	2,061	4,199	2,118	1,383	953	1,420	972	2,767
Female.....	15,377	2,030	3,630	1,611	1,573	1,165	1,451	1,159	2,758
Negro.....	2,650	44	771	492	778	320	154	21	70
Male.....	1,339	25	419	288	366	142	58	9	32
Female.....	1,311	19	352	204	412	178	96	12	38
Indian, Chinese, and all other.....	165	5	39	91	7	12	2	4	5
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.									
Total under 7 years of age.....	17,524	2,319	3,456	1,389	1,909	1,058	1,523	2,055	3,810
Total 7 to 13 years, inclusive.....	14,527	1,861	2,683	1,240	1,623	1,094	1,342	1,711	2,973
Number attending school.....	13,929	1,773	2,582	1,196	1,556	1,046	1,281	1,667	2,828
Total 14 and 15 years.....	3,648	482	655	277	431	309	383	413	698
Number attending school.....	2,839	377	483	206	345	260	316	367	485
Total 16 and 17 years.....	3,663	512	670	329	453	290	367	423	644
Number attending school.....	1,660	196	243	144	209	163	191	276	233
Total 18 to 20 years, inclusive.....	5,327	867	1,058	549	647	500	555	615	966
Number attending school.....	972	136	93	83	99	131	136	159	135
Males 21 years of age and over.....	41,301	5,066	7,337	5,146	4,409	4,130	4,103	4,470	6,700
Native white—Native parentage.....	14,966	1,567	1,431	1,677	1,734	2,179	1,698	2,364	2,316
Native white—Foreign or mixed parentage.....	10,587	1,500	1,708	1,231	1,164	964	1,052	1,185	1,783
Foreign-born white.....	14,674	1,919	3,892	1,943	1,270	887	1,307	911	2,575
Naturalized.....	6,206	956	1,259	668	694	445	536	636	1,012
Negro.....	936	15	306	216	237	90	44	7	21
Females 21 years of age and over.....	43,094	5,063	6,607	4,213	5,369	5,184	4,773	5,027	6,918
Native white—Native parentage.....	16,007	1,533	1,244	1,550	2,100	2,705	2,054	2,486	2,335
Native white—Foreign or mixed parentage.....	12,119	1,681	1,801	1,065	1,451	1,275	1,309	1,451	2,023
Foreign-born white.....	14,950	1,839	3,202	1,435	1,477	1,082	1,338	1,081	2,536
Naturalized.....	6,659	982	1,265	481	815	455	603	780	1,178
Negro.....	910	10	238	162	279	117	72	8	24
Males 18 to 44 years, inclusive.....	30,614	3,932	5,892	3,694	3,092	2,797	2,865	3,245	5,097
Females 18 to 44 years, inclusive.....	31,191	4,023	5,233	2,940	3,587	3,199	3,342	3,612	5,255
ILLITERACY.									
Total 10 years of age and over.....	105,680	12,966	17,813	11,189	12,196	11,999	10,952	11,908	17,557
Number illiterate.....	8,389	229	1,338	701	363	309	304	112	583
Native white.....	72,388	8,874	9,387	6,092	8,629	8,716	7,977	9,781	12,032
Number illiterate.....	276	35	32	39	43	9	15	13	90
Foreign-born white.....	30,857	4,052	7,734	3,660	2,921	2,090	2,855	2,106	5,459
Number illiterate.....	3,536	194	1,289	627	263	292	286	97	489
Negro.....	2,279	35	660	443	639	281	158	17	61
Number illiterate.....	118	15	31	57	7	4	2	2	2
Total 16 to 20 years, inclusive.....	9,520	1,379	1,728	878	1,105	850	982	1,038	1,610
Number illiterate.....	40	8	11	5	4	10	2	2	2
Illiterate males 21 years of age and over.....	1,730	84	574	339	147	150	134	41	261
Native white.....	113	12	13	14	20	3	7	4	40
Foreign-born white.....	1,559	72	562	305	106	145	125	37	217
Negro.....	60	16	8	16	21	1	2	2	2
Illiterate females 21 years of age and over.....	2,154	134	746	356	211	149	168	71	319
Native white.....	137	13	13	23	22	3	6	9	48
Foreign-born white.....	1,948	121	725	318	153	140	160	60	271
Negro.....	68	7	15	15	36	6	2	2	2
DWELLINGS AND FAMILIES.									
Dwellings, number.....	18,945	2,148	2,497	1,280	2,409	1,987	1,987	2,774	3,808
Families, number.....	30,361	3,677	4,898	2,785	3,709	3,250	3,306	3,738	4,998
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.									
Armenia.....	237	19	34	12	13	20	5	134	134
Austria.....	410	75	142	25	26	11	31	46	54
Canada—French.....	3,710	603	351	423	370	178	495	211	1,088
Canada—Other.....	2,078	288	269	204	207	256	210	337	287
Czechoslovakia.....	111	20	13	6	8	8	8	11	45
Denmark.....	84	18	8	10	2	6	14	9	17
England.....	1,947	248	179	137	353	218	184	269	369
Finland.....	180	53	60	8	7	3	11	12	21
France.....	179	6	27	12	31	43	12	16	26
Germany.....	1,152	228	115	113	154	81	100	130	231
Greece.....	939	43	555	135	23	40	32	15	98
Hungary.....	115	26	31	15	11	2	7	7	16
Ireland.....	5,600	791	1,723	463	702	505	866	323	727
Italy.....	4,491	229	299	1,823	463	391	1,022	74	185
Lithuania.....	110	5	79	1	11	6	3	5	5
Norway.....	92	15	5	8	7	4	5	8	40
Poland.....	2,442	161	964	63	39	22	51	32	1,110
Russia.....	3,852	860	2,350	66	47	38	140	243	108
Scotland.....	1,309	124	116	62	231	128	73	168	417
Sweden.....	1,221	193	47	65	183	169	82	135	407
Switzerland.....	87	7	7	12	14	5	10	16	16
Syria.....	380	15	307	8	2	3	1	16	29
All other countries.....	515	64	148	52	47	44	14	46	100



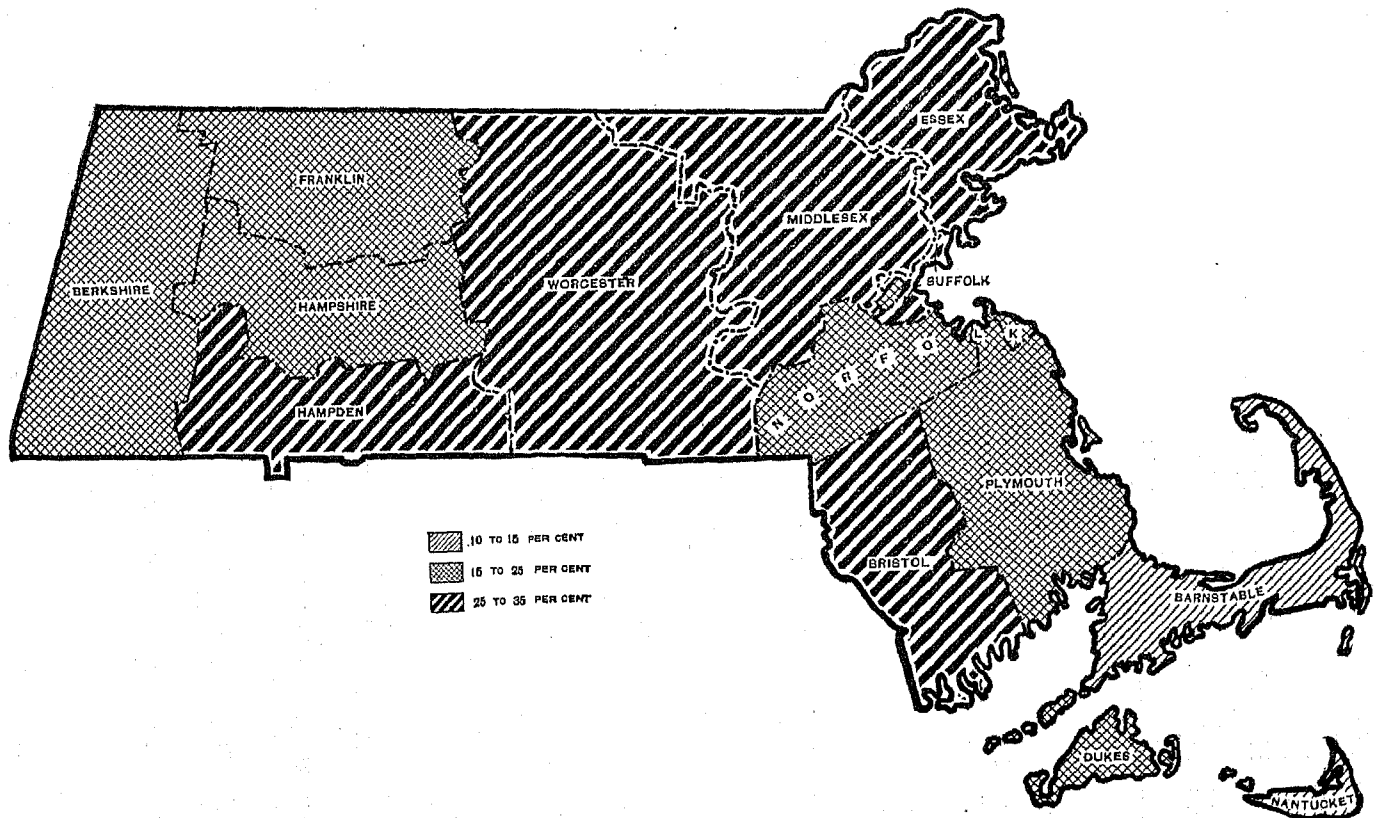
## POPULATION—MASSACHUSETTS.

TABLE 13.—COMPOSITION AND CHARACTERISTICS OF THE POPULATION, FOR WARDS OF CITIES OF 50,000 OR MORE: 1920—Continued.

SUBJECT.	WORCESTER.										
	THE CITY.	WARD.									
		1	2	3	4	5	6	7	8	9	10
COLOR OR RACE, NATIVITY, AND SEX.											
Total population.....	179,754	18,630	18,432	24,074	22,119	22,517	18,181	16,068	13,592	14,280	13,861
Male.....	89,586	8,071	9,206	13,257	11,228	11,005	9,006	7,789	6,382	6,727	6,255
Female.....	90,168	8,559	9,226	10,817	10,891	10,912	9,115	8,279	7,210	7,553	7,606
Native white.....	124,973	12,212	12,137	14,078	14,431	13,877	11,784	12,988	11,027	11,292	11,147
Male.....	61,024	5,951	5,912	7,356	7,301	6,791	5,802	6,336	5,168	5,245	5,162
Female.....	63,949	6,261	6,225	6,722	7,130	7,086	5,982	6,652	5,859	6,047	5,985
Native white—Native parentage.....	50,716	6,005	5,049	3,466	3,816	2,507	2,896	6,916	6,334	6,585	7,142
Native white—Foreign parentage.....	56,841	4,588	5,576	8,995	8,493	9,691	7,150	3,835	3,110	2,887	2,516
Native white—Mixed parentage.....	17,416	1,619	1,512	1,617	2,122	1,679	1,738	2,237	1,583	1,820	1,489
Foreign-born white.....	53,418	4,390	6,048	9,582	7,648	8,630	6,389	3,058	2,512	2,653	2,508
Male.....	27,874	2,108	3,175	5,676	3,902	4,805	3,261	1,442	1,186	1,310	1,009
Female.....	25,544	2,282	2,873	3,906	3,746	3,825	3,128	1,616	1,326	1,343	1,499
Negro.....	1,258	20	233	378	35	3	8	21	47	315	198
Male.....	608	8	110	198	20	2	3	10	22	155	80
Female.....	650	12	123	180	15	1	5	11	25	160	118
Indian, Chinese, Japanese, and all other.....	105	8	14	36	5	7	-----	1	6	20	8
AGE, SCHOOL ATTENDANCE, AND CITIZENSHIP.											
Total under 7 years of age.....	26,266	2,196	2,203	4,413	3,883	4,570	2,828	2,165	1,252	1,430	1,326
Total 7 to 13 years, inclusive.....	21,941	1,974	2,006	3,200	3,357	3,180	2,596	2,001	1,077	1,257	1,287
Number attending school.....	20,873	1,916	1,958	2,823	3,194	3,114	2,434	1,942	1,040	1,233	1,219
Total 14 and 15 years.....	5,448	512	499	724	812	743	597	503	348	359	351
Number attending school.....	4,049	418	406	462	584	496	452	374	267	286	304
Total 16 and 17 years.....	5,517	497	531	724	786	674	628	537	363	397	380
Number attending school.....	2,303	252	244	185	312	220	200	211	184	200	235
Total 18 to 20 years, inclusive.....	8,424	752	855	1,093	1,191	942	872	788	693	643	595
Number attending school.....	1,292	166	120	122	121	109	129	114	150	109	152
Males 21 years of age and over.....	55,977	5,142	6,178	8,140	6,130	6,562	5,342	4,771	4,502	4,829	4,321
Native white—Native parentage.....	14,363	1,838	1,496	1,058	773	465	547	1,815	2,053	2,090	2,222
Native white—Foreign or mixed parentage.....	15,224	1,323	1,595	1,735	1,877	1,545	1,717	1,590	1,371	1,387	1,084
Foreign-born white.....	25,911	1,972	3,004	5,185	3,464	4,543	3,076	1,860	1,115	1,230	962
Naturalized.....	10,892	1,114	1,177	1,409	1,523	1,237	1,725	853	590	672	592
Negro.....	413	7	75	142	11	2	2	5	18	102	49
Females 21 years of age and over.....	56,181	5,557	6,160	5,780	5,960	5,840	5,318	5,303	5,297	5,365	5,601
Native white—Native parentage.....	15,363	1,870	1,691	1,742	1,728	1,479	529	2,015	2,238	2,384	2,682
Native white—Foreign or mixed parentage.....	16,933	1,538	1,698	1,698	1,950	1,813	1,843	1,754	1,706	1,627	1,416
Foreign-born white.....	23,478	2,136	2,690	3,423	3,279	3,547	2,944	1,520	1,250	1,251	1,490
Naturalized.....	10,899	1,158	1,180	1,088	1,502	1,139	1,694	946	696	770	726
Negro.....	400	9	78	114	8	1	2	6	13	100	70
Males 18 to 44 years, inclusive.....	40,726	3,601	4,272	6,112	4,947	5,319	3,901	3,358	3,150	3,217	2,759
Females 18 to 44 years, inclusive.....	40,466	3,894	4,275	4,417	4,841	4,774	4,028	3,711	3,523	3,487	3,516
ILLITERACY.											
Total 10 years of age and over.....	143,725	13,567	15,346	18,173	16,739	16,428	14,195	13,071	11,897	12,340	11,969
Number illiterate.....	6,779	250	416	2,048	1,386	1,685	427	117	108	240	102
Native white.....	89,769	9,194	9,138	8,421	9,174	7,872	7,946	10,028	9,387	9,433	9,306
Number illiterate.....	237	0	21	90	14	19	22	22	4	30	9
Foreign-born white.....	52,821	4,348	5,998	9,411	7,533	8,546	6,345	3,028	2,494	2,627	2,491
Number illiterate.....	6,507	243	386	1,953	1,372	1,663	405	95	103	198	89
Negro.....	1,044	18	198	315	27	3	4	14	40	261	164
Number illiterate.....	27	9	9	5	-----	1	-----	-----	1	7	4
Total 16 to 20 years, inclusive.....	13,941	1,249	1,386	1,817	1,977	1,616	1,500	1,325	1,056	1,040	975
Number illiterate.....	80	1	1	45	9	7	4	5	2	4	2
Illiterate males 21 years of age and over.....	3,062	108	230	969	558	755	173	56	61	116	36
Native white.....	92	2	12	31	5	9	5	0	1	13	5
Foreign-born white.....	2,951	105	215	935	553	743	168	47	60	95	30
Negro.....	12	-----	3	-----	-----	1	-----	-----	-----	4	1
Illiterate females 21 years of age and over.....	3,067	139	184	1,021	816	920	244	54	45	120	64
Native white.....	110	3	9	44	7	6	11	8	3	16	3
Foreign-born white.....	3,483	136	169	976	809	914	233	46	41	101	58
Negro.....	14	-----	6	1	-----	-----	-----	-----	1	3	3
DWELLINGS AND FAMILIES.											
Dwellings, number.....	19,387	2,427	1,999	1,823	1,986	1,826	2,082	2,172	1,415	1,585	2,022
Families, number.....	39,230	3,948	3,753	4,550	4,488	4,474	4,012	3,700	3,360	3,530	3,355
COUNTRY OF BIRTH OF FOREIGN-BORN WHITE.											
Albania.....	461	-----	6	159	5	50	-----	142	98	-----	1
Armenia.....	1,225	31	139	499	14	15	14	13	111	254	135
Austria.....	189	19	6	46	29	33	18	6	7	18	7
Canada—French.....	4,292	187	261	498	1,143	442	293	605	309	390	164
Canada—Other.....	3,833	463	441	493	204	326	160	455	357	456	478
Denmark.....	227	85	26	7	13	7	34	15	10	9	21
England.....	3,343	277	236	152	199	340	861	425	309	295	249
Finland.....	2,175	211	1,201	289	12	7	318	29	27	10	71
France.....	119	20	15	17	14	3	9	16	3	10	12
Germany.....	467	66	63	55	23	45	31	34	50	50	50
Greece.....	720	-----	16	473	90	4	10	1	52	49	25
Ireland.....	9,048	699	902	1,513	1,070	1,496	903	679	611	514	661
Italy.....	4,296	26	433	3,172	470	19	139	5	15	8	9
Lithuania.....	4,220	119	68	398	760	2,329	437	34	28	22	25
Norway.....	334	64	70	20	30	10	59	33	22	10	16
Poland.....	3,632	79	70	345	355	2,478	217	24	17	26	21
Russia.....	4,778	93	119	609	2,604	706	409	29	65	52	92
Scotland.....	986	110	87	70	69	63	93	111	132	82	119
Sweden.....	7,751	1,803	1,703	254	196	217	2,360	500	187	246	285
Syria.....	688	-----	29	367	266	-----	3	-----	-----	14	9
All other countries.....	684	38	157	146	82	40	21	44	58	40	58



PER CENT OF FOREIGN-BORN WHITE IN TOTAL POPULATION, BY COUNTIES: 1920.





## POPULATION—MASSACHUSETTS.

TABLE 14.—AGE, BY QUINQUENNIAL PERIODS, WITH SINGLE YEARS FOR PERSONS UNDER 25, FOR THE STATE: 1920.

AGE.	ALL CLASSES: 1920		NATIVE WHITE: 1920						FOREIGN-BORN WHITE: 1920		NEGRO: 1920		INDIAN, CHINESE, JAPANESE, AND ALL OTHER: 1920	
			Native parentage.		Foreign parentage.		Mixed parentage.							
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
All ages, number.....	1,890,014	1,962,342	601,525	629,248	534,966	558,292	194,507	207,452	533,319	544,215	22,912	22,554	2,785	581
Under 5 years.....	194,536	191,225	71,574	69,901	88,269	86,938	31,022	30,758	1,436	1,388	2,145	2,163	90	79
Under 1 year.....	37,401	37,490	13,921	13,919	16,737	16,773	6,110	6,127	135	164	475	490	23	17
5 to 9 years.....	180,574	179,252	59,927	58,900	84,341	84,025	28,857	28,946	5,611	5,527	1,778	1,777	60	77
10 to 14 years.....	167,116	166,422	54,361	53,436	71,877	71,418	27,473	27,771	11,748	12,049	1,606	1,696	51	52
15 to 19 years.....	147,742	154,389	46,636	47,965	56,736	58,993	23,972	24,614	18,776	21,052	1,508	1,681	114	54
20 to 24 years.....	154,178	173,566	47,954	51,164	49,565	53,896	20,108	22,315	34,056	43,877	2,239	2,246	256	68
25 to 29 years.....	165,852	177,371	46,758	48,947	40,409	43,250	16,264	18,569	59,793	64,047	2,432	2,494	256	55
30 to 34 years.....	153,699	156,267	41,608	43,742	28,967	31,917	12,178	14,188	68,491	64,266	2,230	2,088	225	36
35 to 39 years.....	149,182	149,195	39,463	40,941	24,720	27,108	9,780	11,402	72,528	67,417	2,384	2,227	357	40
40 to 44 years.....	126,906	132,500	35,493	37,609	21,956	24,886	7,665	8,826	59,613	59,422	1,836	1,734	343	23
45 to 49 years.....	122,933	119,772	34,061	34,258	21,875	23,441	6,019	6,733	58,865	53,914	1,759	1,410	354	16
50 to 54 years.....	101,687	102,404	30,573	30,829	17,384	19,109	4,156	4,671	48,112	46,820	1,125	1,013	337	22
55 to 59 years.....	74,244	78,381	24,495	26,199	12,212	13,880	2,761	3,219	33,897	34,466	684	600	195	17
60 to 64 years.....	58,914	64,410	23,309	25,600	9,392	10,473	2,060	2,452	23,605	25,294	450	519	98	12
65 to 69 years.....	39,339	45,182	17,605	20,190	4,501	5,243	1,114	1,433	15,798	17,951	289	356	32	9
70 to 74 years.....	25,682	32,297	12,708	16,350	1,702	2,119	597	766	10,493	12,813	172	241	10	8
75 to 79 years.....	15,105	21,011	7,833	11,609	645	884	327	450	6,180	7,864	119	131	1	7
80 to 84 years.....	7,026	11,168	4,003	6,812	199	355	104	208	2,679	3,723	40	65	1	5
85 to 89 years.....	2,588	4,725	1,524	3,016	60	112	47	68	946	1,488	11	40	.....	1
90 to 94 years.....	664	1,261	307	840	16	25	16	16	256	371	8	9	1	.....
95 to 99 years.....	126	227	53	122	1	5	1	4	67	89	4	7	.....	.....
100 years and over.....	11	35	3	10	.....	2	.....	.....	7	19	1	4	.....	.....
Age unknown.....	1,910	1,222	1,217	688	139	144	36	39	422	298	92	53	4	.....
All ages, per cent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 5 years.....	10.3	9.7	11.9	11.1	16.5	15.6	15.9	14.8	0.3	0.3	9.4	9.6	3.2	13.6
Under 1 year.....	2.0	1.9	2.3	2.2	3.1	3.0	3.1	3.0	(1)	(1)	2.1	2.2	0.8	2.9
5 to 9 years.....	9.6	9.1	10.0	9.4	15.8	15.1	14.8	14.0	1.1	1.0	7.8	7.9	2.2	13.3
10 to 14 years.....	8.8	8.5	9.0	8.5	13.4	12.8	14.1	13.4	2.2	2.2	7.0	7.5	1.8	9.0
15 to 19 years.....	7.8	7.9	7.8	7.6	10.6	10.6	12.3	11.9	3.5	3.9	6.6	7.5	4.1	9.3
20 to 24 years.....	8.2	8.8	8.0	8.1	9.3	9.7	10.3	10.8	6.4	8.1	9.8	10.0	9.2	11.7
25 to 29 years.....	8.8	9.0	7.8	7.8	7.6	7.7	8.4	9.0	11.2	11.8	10.6	11.1	9.2	9.5
30 to 34 years.....	8.1	8.0	6.9	7.0	5.4	5.7	6.3	6.8	12.8	11.8	9.7	9.3	8.1	6.2
35 to 39 years.....	7.9	7.6	6.6	6.5	4.6	4.9	5.0	5.5	13.6	12.4	10.4	9.9	12.8	6.9
40 to 44 years.....	6.7	6.8	5.9	6.0	4.1	4.5	3.9	4.3	11.2	10.9	8.0	7.7	12.3	4.0
45 to 49 years.....	6.5	6.1	5.7	5.4	4.1	4.2	3.1	3.2	11.0	9.9	7.7	6.3	12.7	2.8
50 to 54 years.....	5.4	5.2	5.1	4.9	3.2	3.4	2.1	2.3	9.0	8.6	4.9	4.5	12.1	3.8
55 to 59 years.....	3.9	4.0	4.1	4.2	2.3	2.5	1.4	1.6	6.4	6.3	3.0	2.7	7.0	2.9
60 to 64 years.....	3.1	3.3	3.9	4.1	1.8	1.9	1.1	1.2	4.4	4.6	2.0	2.3	3.5	2.1
65 to 74 years.....	3.4	3.9	5.0	5.8	1.2	1.3	0.9	1.1	4.9	5.7	2.0	2.6	1.6	2.9
75 to 84 years.....	1.2	1.6	2.0	2.9	0.2	0.2	0.2	0.8	1.7	2.1	0.7	0.9	0.1	2.1
85 to 94 years.....	0.2	0.3	0.3	0.6	(1)	(1)	(1)	(1)	0.2	0.3	0.1	0.2	(1)	0.2
95 years and over.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	.....	.....
Age unknown.....	0.1	0.1	0.2	0.1	(1)	(1)	(1)	(1)	0.1	0.1	0.4	0.2	0.1	.....
Years of age (1-24).....														
1 year.....	39,658	38,792	15,195	14,958	17,324	16,955	6,448	6,190	232	212	442	458	17	19
2 years.....	39,676	38,976	14,815	14,252	17,940	17,793	6,216	6,279	255	224	433	411	17	17
3 years.....	39,472	38,462	14,062	13,552	18,440	18,107	6,236	6,057	315	325	401	406	18	15
4 years.....	38,329	37,505	13,581	13,220	17,828	17,310	6,012	6,103	499	493	394	398	15	11
5 years.....	37,161	37,011	12,378	12,395	17,965	17,823	5,831	5,808	597	593	373	367	17	25
6 years.....	36,999	36,705	12,485	12,249	17,435	17,325	5,839	5,890	881	877	348	346	11	18
7 years.....	36,481	35,833	12,020	11,715	16,999	16,729	5,908	5,916	1,191	1,117	354	346	9	10
8 years.....	35,684	35,640	11,865	11,477	16,387	16,577	5,719	5,805	1,366	1,391	335	379	12	11
9 years.....	34,249	34,063	11,179	11,064	15,555	15,571	5,560	5,527	1,576	1,549	368	339	11	13
10 years.....	34,486	34,299	11,318	11,029	15,244	15,336	5,593	5,558	1,953	2,007	368	357	15	12
11 years.....	33,769	33,886	11,118	11,003	14,621	14,596	5,672	5,865	2,043	2,071	307	349	8	12
12 years.....	35,466	34,811	11,499	11,045	15,565	15,298	5,679	5,824	2,390	2,361	323	335	10	8
13 years.....	32,496	32,599	10,537	10,575	13,774	13,628	5,369	5,441	2,496	2,619	311	329	9	7
14 years.....	30,899	30,827	9,889	9,784	12,673	12,630	5,160	5,083	2,866	2,991	302	326	9	13
15 years.....	30,089	30,399	9,555	9,688	12,058	12,114	5,127	5,124	3,061	3,171	269	296	19	8
16 years.....	30,898	31,389	9,432	9,689	12,032	12,528	5,195	5,054	3,633	3,764	294	343	12	11
17 years.....	29,034	30,236	9,301	9,452	11,117	11,867	4,670	4,892	3,713	4,005	312	310	21	10
18 years.....	28,991	31,133	9,016	9,541	10,915	11,600	4,697	4,826	4,051	4,808	287	346	25	12
19 years.....	29,030	31,232	9,332	9,897	10,614	11,184	4,383	4,718	4,318	5,334	346	386	37	13
20 years.....	27,687	31,906	8,783	9,529	9,761	11,035	4,147	4,586	4,641	6,363	325	375	30	18
21 years.....	30,253	32,859	9,835	10,273	10,311	10,767	4,283	4,582	5,333	6,831	394	395	47	11
22 years.....	31,396	35,352	9,756	10,285	10,163	11,047	4,096	4,427	6,805	9,098	506	479	70	16
23 years.....	32,150	36,457	9,801	10,626	9,932	10,633	3,979	4,569	7,883	10,126	508	486	47	7
24 years.....	32,692	36,992	9,779	10,451	9,398	10,404	3,603	4,151	9,344	11,459	506	511	62	16

1 Less than one-tenth of 1 per cent.



## COMPOSITION AND CHARACTERISTICS.

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TABLE 15.—MARITAL CONDITION OF THE POPULATION 15 YEARS OF AGE AND OVER, FOR THE STATE: 1920, 1910, AND 1900.

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

CENSUS YEAR, CLASS OF POPULATION, AND AGE PERIOD.	MALES 15 YEARS OF AGE AND OVER.							FEMALES 15 YEARS OF AGE AND OVER.								
	Total. <sup>1</sup>	Single.		Married.		Widowed.		Divorced.	Total. <sup>1</sup>	Single.		Married.		Widowed.		Divorced.
		Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.			Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	
<b>1920</b>																
All classes—15 years and over.	1,347,788	496,687	36.9	775,687	57.6	67,582	5.0	5,825	1,425,443	490,170	34.4	758,897	53.2	167,253	11.7	8,000
15 to 19 years.	147,742	146,430	99.1	1,213	0.8	28	(2)	4	154,389	146,613	95.0	7,692	4.9	96	0.1	24
20 to 24 years.	154,178	123,157	79.9	30,359	19.7	380	0.2	108	173,566	108,740	62.7	63,262	36.4	1,063	0.6	348
25 to 34 years.	819,551	120,622	37.7	193,697	60.6	3,963	1.2	1,003	333,638	102,003	30.6	221,618	66.4	7,960	2.4	1,888
35 to 44 years.	276,088	52,264	18.9	214,376	77.6	7,524	2.7	1,707	281,695	56,149	19.9	205,153	72.8	17,700	6.3	2,534
45 to 54 years.	224,620	31,159	13.9	178,801	79.6	12,916	5.8	1,580	222,236	38,445	17.3	149,764	67.4	31,969	14.4	1,927
55 to 64 years.	133,158	14,997	11.3	101,376	76.1	15,701	11.8	975	142,791	22,634	15.9	78,046	54.7	41,137	28.8	885
65 years and over.	90,541	7,586	8.4	55,446	61.2	27,000	29.8	434	115,906	15,204	13.1	33,076	28.5	67,169	58.0	384
Age unknown.	1,910	488	25.5	419	21.9	70	3.7	14	1,222	382	31.3	386	31.6	159	13.0	12
Native white—Native parentage:																
15 years and over. <sup>a</sup>	415,663	147,344	35.4	239,979	57.7	24,154	5.8	3,115	447,011	159,021	35.6	220,932	49.4	62,399	14.0	4,188
15 to 19 years.	46,636	46,130	98.9	475	1.0	10	(2)	2	47,965	45,718	95.3	2,195	4.6	35	0.1	7
20 to 24 years.	47,964	37,486	78.2	10,240	21.4	121	0.3	55	51,164	33,445	65.4	17,222	33.7	317	0.6	147
25 to 34 years.	88,366	31,749	35.9	54,937	62.2	1,143	1.3	479	92,089	31,614	34.1	58,012	62.6	2,158	2.3	804
35 to 44 years.	74,956	13,661	18.2	58,401	77.9	2,010	2.7	835	78,550	17,184	21.9	59,472	76.0	4,555	5.8	1,206
45 to 54 years.	64,634	8,767	13.6	51,556	79.8	3,418	5.3	854	65,087	12,450	19.1	43,172	66.3	8,385	12.9	1,039
55 to 64 years.	47,894	5,471	11.4	36,673	76.7	5,065	10.6	502	51,859	9,353	18.0	28,354	54.7	13,573	26.2	549
65 years and over.	44,096	3,874	8.8	27,504	62.4	12,360	28.0	321	59,099	9,079	15.4	16,314	27.6	33,305	56.4	277
Native white—For. or mixed par.:																
15 years and over. <sup>a</sup>	397,634	218,689	55.0	165,229	41.6	12,101	3.0	1,291	435,890	223,523	51.3	182,000	41.8	28,267	6.5	1,831
15 to 19 years.	80,708	80,144	99.3	512	0.6	9	(2)	1	83,607	80,528	96.3	2,990	3.6	37	(2)	12
20 to 24 years.	69,673	58,401	83.8	11,002	15.8	157	0.2	37	70,211	53,893	76.7	21,757	28.5	357	0.5	132
25 to 34 years.	97,818	45,301	46.3	50,968	52.1	1,166	1.2	304	107,933	43,643	40.4	61,429	56.9	2,227	2.1	577
35 to 44 years.	64,071	17,814	27.8	43,905	68.5	1,881	2.9	424	72,232	21,588	29.9	45,789	63.3	4,298	5.9	568
45 to 54 years.	49,434	10,789	21.8	35,250	71.3	3,039	6.1	324	53,954	14,404	26.9	31,904	59.1	7,173	13.3	359
55 to 64 years.	20,425	4,769	23.3	18,094	88.5	3,371	12.8	167	30,024	7,131	23.8	14,594	48.6	8,136	27.1	141
65 years and over.	9,330	1,366	14.6	5,456	58.5	2,407	25.4	33	11,696	2,143	18.3	3,496	29.9	6,013	51.4	39
Native white—Foreign parentage:																
15 years and over. <sup>a</sup>	290,479	158,271	54.5	121,501	41.9	9,551	3.3	828	315,911	161,618	51.2	131,260	41.5	21,710	6.9	1,111
15 to 19 years.	50,736	50,365	99.3	340	0.6	5	(2)	1	58,993	56,785	96.3	2,147	3.6	26	(2)	8
20 to 24 years.	49,565	41,615	83.8	7,865	15.9	112	0.2	22	53,896	38,009	70.5	15,502	28.8	244	0.5	82
25 to 34 years.	69,376	32,310	46.6	35,995	51.9	828	1.2	185	75,176	30,502	40.7	42,676	56.8	1,555	2.1	344
35 to 44 years.	46,676	13,616	29.2	31,380	67.2	1,381	3.0	261	52,054	16,231	31.2	32,272	62.0	3,172	6.1	344
45 to 54 years.	39,259	9,092	23.2	27,407	69.8	2,502	6.4	230	42,550	12,106	28.5	24,502	57.6	5,989	13.4	232
55 to 64 years.	21,004	4,167	19.3	14,482	67.0	2,823	13.1	113	24,853	6,134	25.2	11,551	47.4	6,773	27.0	77
65 years and over.	7,124	1,128	15.8	4,084	57.3	1,890	26.5	15	8,745	1,709	19.5	2,580	29.5	4,430	50.7	22
Native white—Mixed parentage:																
15 years and over. <sup>a</sup>	107,155	60,418	56.4	43,638	40.7	2,550	2.4	463	119,979	61,905	51.6	50,740	42.3	6,557	5.5	720
15 to 19 years.	23,972	23,779	99.2	172	0.7	4	(2)	1	24,614	23,743	96.5	843	3.4	11	(2)	4
20 to 24 years.	20,108	16,886	84.0	3,137	15.6	45	0.2	15	22,315	15,884	71.2	6,255	28.0	113	0.5	50
25 to 34 years.	28,442	12,991	45.7	14,973	52.6	338	1.2	119	32,757	13,081	39.9	18,753	57.2	672	2.1	233
35 to 44 years.	17,395	4,198	24.1	12,525	72.0	500	2.9	163	20,228	5,357	26.5	13,617	66.8	1,125	5.6	224
45 to 54 years.	10,175	1,697	16.7	7,843	77.1	537	5.3	94	11,404	2,388	20.9	7,402	64.9	1,494	13.0	127
55 to 64 years.	4,821	602	12.5	3,612	74.9	548	11.4	54	5,071	997	19.7	3,043	60.3	1,503	29.6	64
65 years and over.	2,206	238	10.8	1,372	62.2	577	26.2	18	2,951	434	14.7	916	31.0	1,593	53.6	17
Foreign-born white:																
15 years and over. <sup>a</sup>	514,524	122,621	23.8	359,609	69.9	30,467	5.9	1,297	525,251	102,768	19.6	346,595	66.0	73,705	14.0	1,833
15 to 19 years.	18,776	18,553	98.8	209	1.1	7	(2)	1	21,082	18,826	89.3	2,219	10.5	20	0.1	4
20 to 24 years.	34,056	25,376	74.5	8,528	25.0	97	0.3	13	43,877	20,324	46.3	23,090	52.6	350	0.8	61
25 to 34 years.	128,224	41,422	32.3	84,903	66.2	1,591	1.2	188	128,343	25,668	20.0	98,913	77.1	3,296	2.6	396
35 to 44 years.	132,141	19,503	14.8	108,644	82.2	3,475	2.6	407	126,839	16,738	13.2	101,187	79.8	8,221	6.5	618
45 to 54 years.	108,977	10,885	10.2	89,397	83.6	6,236	5.8	371	100,734	11,220	11.1	73,289	72.7	15,678	15.6	504
55 to 64 years.	57,502	4,490	7.8	45,669	79.4	7,059	12.3	234	60,760	6,024	10.1	34,665	58.0	18,852	31.5	183
65 years and over.	36,426	2,245	6.2	22,094	60.7	11,974	32.9	78	44,318	3,882	8.8	13,101	29.6	27,236	61.5	67
Negro:																
15 years and over. <sup>a</sup>	17,883	6,834	38.3	9,540	54.9	824	4.7	117	16,918	4,743	28.0	9,159	54.1	2,838	16.8	145
15 to 19 years.	1,508	1,492	98.9	14	0.9	2	0.1	1	1,681	1,494	88.9	182	10.8	3	0.2	1
20 to 24 years.	2,239	1,676	74.9	553	24.7	5	0.2	3	2,246	1,044	46.5	1,150	51.2	39	1.7	8
25 to 34 years.	4,662	1,865	40.0	2,694	57.8	62	1.3	32	4,582	1,064	23.2	3,192	69.7	275	6.0	48
35 to 44 years.	4,220	1,027	24.3	2,995	71.0	151	3.6	39	3,961	631	15.9	2,656	67.1	621	15.7	51
45 to 54 years.	2,884	490	17.0	2,155	74.7	207	7.2	28	2,423	277	11.4	1,391	57.4	728	30.0	24
55 to 64 years.	1,134	169	14.9	756	66.7	197	17.4	12	1,119	122	10.9	417	37.3	567	50.7	12
65 years and over.	644	86	13.4	359	55.7	196	30.4	2	853	96	11.3	159</				



TABLE 16.—TOTAL, WHITE, AND COLORED POPULATION, WITH STATE OF BIRTH FOR NATIVES, FOR THE STATE: 1920.

NATIVITY AND STATE OF BIRTH.	All classes: 1920	White: 1920	Colored: <sup>1</sup> 1920	PER CENT DISTRIBUTION OF TOTAL.						PER CENT DIS- TRIBUTION OF NATIVE WHITE.	
				All classes.		White.		Colored.		1920	1910
				1920	1910	1920	1910	1920	1910		
Total population.....	3,852,356	3,803,524	48,832	100.0	100.0	100.0	100.0	100.0	100.0	.....	.....
Native.....	2,763,808	2,725,990	37,818	71.7	68.5	71.7	68.4	77.4	80.2	100.0	100.0
Born in—											
Massachusetts.....	2,265,287	2,246,006	18,681	58.8	55.3	59.1	55.5	38.3	37.6	82.4	81.2
Maine.....	93,931	93,702	229	2.4	2.8	2.5	2.8	0.5	0.6	3.4	4.1
New York.....	91,177	90,203	974	2.4	2.3	2.4	2.3	2.0	2.2	3.3	3.4
New Hampshire.....	69,052	68,939	113	1.8	1.9	1.8	1.9	0.2	0.3	2.5	2.8
Vermont.....	45,778	45,625	153	1.2	1.2	1.2	1.2	0.3	0.4	1.7	1.8
Connecticut.....	43,468	42,789	679	1.1	1.1	1.1	1.1	1.4	1.4	1.6	1.7
Rhode Island.....	38,821	38,341	480	1.0	1.0	1.0	1.0	1.0	0.8	1.4	1.4
Pennsylvania.....	18,581	17,964	617	0.5	0.5	0.5	0.5	1.3	1.4	0.7	0.7
New Jersey.....	11,565	11,192	373	0.3	0.3	0.3	0.3	0.8	0.8	0.4	0.4
Michigan.....	7,894	7,838	56	0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.2
Virginia.....	7,800	2,764	5,036	0.2	0.2	0.1	0.1	10.3	13.9	0.1	0.1
Illinois.....	7,399	7,342	57	0.2	0.2	0.2	0.2	0.1	0.1	0.3	0.3
Ohio.....	6,978	6,812	166	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2
Other states.....	44,798	35,120	9,678	1.2	1.1	0.9	0.8	19.8	19.7	1.3	1.2
Other native <sup>2</sup> .....	11,279	10,753	526	0.3	0.3	0.3	0.3	1.1	0.7	0.4	0.5
Foreign born.....	1,088,548	1,077,534	11,014	28.3	31.5	28.3	31.6	22.6	19.8	.....	.....

<sup>1</sup> Comprises persons of Negro descent, Indians, Chinese, Japanese, and all other; see Table 1.<sup>2</sup> Comprises persons born in the United States, state of birth not reported; persons born in outlying possessions, or at sea under United States flag; and persons of foreign birth whose parents were American citizens temporarily absent from the United States.

TABLE 17.—COUNTRY OF BIRTH OF THE FOREIGN-BORN POPULATION, WITH CITIZENSHIP OF THE FOREIGN-BORN WHITE, FOR THE STATE: 1920.

[See also Tables 5, 6, and 12.]

COUNTRY OF BIRTH.	TOTAL FOREIGN BORN.				FOREIGN-BORN WHITE.							FOREIGN-BORN WHITE 21 YEARS OF AGE AND OVER.		
	Both sexes.		Male.	Female.	Total.	Naturalized.		Having first papers.	Alien.	Citizen-ship not reported.	Total.	Naturalized.		
	Number.	Percent distribution.				Number.	Per cent.					Number.	Percent.	
Total.....	1,088,548	100.0	540,428	548,120	1,077,534	457,889	42.5	81,414	510,025	28,206	988,913	441,416	44.6	
Canada.....	263,478	24.2	117,224	146,254	262,021	123,941	47.3	20,132	110,006	7,942	241,243	120,350	49.0	
<i>French</i> .....	108,691	10.0	53,598	55,095	108,691	48,192	39.7	8,854	55,660	2,985	98,647	41,852	42.4	
Ireland.....	183,172	16.8	75,426	107,746	183,171	115,536	63.1	9,112	51,460	7,063	180,798	114,666	63.4	
Italy.....	117,007	10.7	68,063	48,944	117,007	22,890	19.6	10,778	81,075	1,064	101,112	21,293	21.1	
Russia.....	92,034	8.5	49,758	42,276	92,034	33,281	36.2	9,717	46,834	2,202	80,291	30,694	38.2	
England.....	87,085	8.0	42,127	44,958	86,895	54,538	62.8	6,109	23,914	2,334	79,516	51,734	65.1	
Poland.....	69,157	6.4	37,461	31,696	69,157	10,529	15.2	5,105	52,360	1,163	64,294	9,929	15.4	
Sweden.....	38,012	3.5	18,505	19,447	38,012	23,526	61.9	3,312	10,333	836	36,436	22,976	63.1	
Portugal.....	29,191	2.7	15,703	13,398	28,315	2,914	10.3	731	24,342	328	22,638	2,416	10.5	
Scotland.....	28,474	2.6	13,495	14,979	28,474	16,758	58.9	2,373	8,583	760	25,734	15,055	60.8	
Atlantic Islands.....	28,294	2.6	14,741	13,553	25,230	3,020	14.3	639	20,694	277	21,178	3,430	16.2	
Germany.....	22,113	2.0	11,431	10,682	22,113	15,858	71.7	1,549	3,915	791	21,513	15,044	72.7	
Lithuania.....	20,789	1.9	12,102	8,687	20,789	2,848	13.7	1,644	16,054	243	19,724	2,740	13.9	
Greece.....	20,441	1.9	14,294	6,147	20,441	2,351	11.5	1,843	15,971	276	18,140	2,219	12.2	
Finland.....	14,570	1.3	7,458	7,112	14,570	3,175	21.8	1,536	9,458	401	13,270	3,002	22.6	
Armenia.....	8,640	0.8	5,096	2,044	8,640	2,369	27.3	978	5,162	141	7,984	2,255	28.2	
Austria.....	8,098	0.7	4,212	3,886	8,098	2,560	31.6	744	4,536	258	7,530	2,445	32.5	
Newfoundland.....	7,168	0.7	3,228	3,940	7,165	3,348	46.7	735	2,798	284	6,064	3,253	48.8	
Syria.....	7,128	0.7	4,161	2,967	7,123	1,274	17.9	786	4,968	100	6,419	1,201	18.7	
France.....	7,125	0.7	3,413	3,712	7,120	3,245	45.6	565	3,062	248	6,294	3,015	47.9	
All other countries.....	36,572	3.4	21,480	15,092	31,154	13,338	42.8	3,026	13,895	805	27,835	12,499	44.9	

TABLE 18.—YEAR OF IMMIGRATION OF THE FOREIGN-BORN POPULATION, FOR THE STATE: 1920.

SEX.	Total foreign born: 1920	YEAR OF IMMIGRATION.							PER CENT OF TOTAL ARRIVING IN—						
		1918- 1919	1916- 1917	1911- 1915	1906- 1910	1901- 1905	1900 or earlier.	Year not reported.	1918- 1919	1916- 1917	1911- 1915	1906- 1910	1901- 1905	1900 or earlier.	Year not re- ported.
Both sexes.....	1,088,548	20,287	28,554	176,041	177,219	144,993	499,067	44,387	1.9	2.4	16.2	16.3	13.3	45.8	4.1
Male.....	540,428	9,837	12,350	92,095	92,064	75,331	242,259	16,392	1.7	2.3	17.2	17.0	13.9	44.8	3.0
Female.....	548,120	10,950	14,204	83,946	85,155	69,662	256,808	27,995	2.0	2.6	15.2	15.5	12.7	46.9	5.1

TABLE 19.—FOREIGN-BORN WHITE POPULATION UNABLE TO SPEAK ENGLISH, FOR THE STATE: 1920.

SEX.	FOREIGN-BORN WHITE 10 YEARS OF AGE AND OVER: 1920			FOREIGN-BORN WHITE 21 YEARS OF AGE AND OVER: 1920		
	Total number.	Unable to speak English.		Total number.	Unable to speak English.	
		Number.	Per cent.		Number.	Per cent.
Both sexes.....	1,063,572	96,428	9.1	988,913	93,150	9.4
Male.....	526,272	37,556	7.1	491,107	36,448	7.4
Female.....	537,300	58,870	11.0	497,806	56,702	11.4



## COMPOSITION AND CHARACTERISTICS.

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TABLE 20.—SCHOOL ATTENDANCE, BY AGE PERIODS, FOR THE STATE: 1920.

[See also Table 2.]

CLASS OF POPULATION AND SEX.	Total number of persons attending school: 1920	PERSONS 7 TO 13 YEARS OF AGE.			PERSONS 14 AND 15 YEARS OF AGE.			PERSONS 16 AND 17 YEARS OF AGE.			PERSONS 18 TO 20 YEARS OF AGE.			OTHERS ATTENDING SCHOOL.	
		Total number.	Attending school.		Total number.	Attending school.		Total number.	Attending school.		Total number.	Attending school.		Under 7 years of age.	21 years of age and over.
			Number.	Per cent.		Number.	Per cent.		Number.	Per cent.		Number.	Per cent.		
All classes.....	741,029	483,762	484,752	96.1	122,214	90,290	73.8	121,257	49,260	40.6	179,979	28,822	16.0	91,931	15,974
Male.....	370,974	242,631	243,172	96.1	60,983	44,450	72.9	59,632	22,638	38.0	85,708	14,667	17.1	45,884	10,193
Female.....	370,055	241,131	241,580	96.0	61,226	45,840	74.9	61,625	26,622	43.2	94,271	14,155	15.0	46,047	5,811
Native white:															
Native parentage.....	256,593	157,444	151,839	96.5	38,914	32,275	82.9	37,874	20,320	53.7	55,798	13,381	24.0	32,022	6,076
Male.....	128,380	79,530	76,710	96.5	19,444	15,802	81.3	18,733	9,293	49.6	27,131	6,606	24.3	15,948	4,007
Female.....	128,183	77,908	75,170	96.5	19,470	16,473	84.6	19,141	11,022	57.6	28,667	6,775	23.6	16,074	2,069
Foreign parentage.....	312,565	215,810	207,843	96.3	49,475	34,323	69.4	47,244	16,156	34.2	65,109	7,977	12.3	42,528	3,738
Male.....	156,725	108,145	104,138	96.3	24,731	17,024	68.8	23,149	7,425	32.1	31,290	4,265	13.6	21,341	2,432
Female.....	155,840	107,665	103,655	96.3	24,744	17,299	69.9	24,095	8,731	36.2	33,819	3,712	11.0	21,187	1,256
Mixed parentage.....	122,059	79,436	76,735	96.6	20,494	15,500	75.7	19,711	8,345	42.3	27,357	4,600	16.8	15,032	1,841
Male.....	60,407	39,500	38,161	96.6	10,287	7,604	73.9	9,765	3,787	38.8	13,227	2,246	17.0	7,416	1,193
Female.....	61,652	39,936	38,574	96.6	10,207	7,902	77.4	9,946	4,558	45.8	14,130	2,354	16.7	7,616	643
Foreign-born white.....	42,027	26,130	23,549	90.1	12,089	7,161	59.2	15,115	3,854	25.5	29,515	2,647	8.6	1,503	3,408
Male.....	21,596	13,015	11,772	90.4	5,927	3,635	59.6	7,346	1,877	25.6	13,010	1,408	10.8	773	2,231
Female.....	20,431	13,115	11,777	89.8	6,162	3,626	58.8	7,769	1,977	25.4	16,505	1,139	6.9	735	1,177
Negro.....	7,460	4,705	4,598	95.9	1,193	984	82.5	1,259	553	43.9	2,085	285	13.8	807	233
Male.....	3,649	2,361	2,262	95.8	571	462	80.9	606	230	38.0	958	125	13.0	391	179
Female.....	3,811	2,434	2,336	96.0	622	522	83.9	653	323	49.5	1,107	160	14.5	416	54

TABLE 21.—SCHOOL ATTENDANCE, BY SINGLE YEARS FROM 5 TO 20, FOR THE STATE: 1920.

[See also Table 2.]

YEAR OF AGE.	NUMBER AND PER CENT OF TOTAL AT SPECIFIED AGE ATTENDING SCHOOL: 1920													
	All classes.						Native white.						Foreign-born white.	
	Both sexes.		Male.		Female.		Native parentage.		Foreign parentage.		Mixed parentage.		Foreign-born white.	
	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.	Number.	Per cent.
5 years.....	27,419	37.0	13,555	38.5	13,864	37.5	9,630	38.9	12,711	35.5	4,524	38.9	311	26.1
6 years.....	60,783	82.5	30,468	82.3	30,315	82.6	21,117	85.4	28,003	80.6	9,951	84.8	1,154	65.6
7 years.....	67,527	91.4	34,081	93.4	33,446	93.3	22,331	94.1	31,467	93.3	11,140	94.2	1,633	83.8
8 years.....	67,527	95.3	33,980	95.2	33,548	95.3	22,330	96.7	31,453	95.6	10,999	95.4	2,431	88.2
9 years.....	65,327	95.6	32,752	95.6	32,576	95.6	21,327	95.9	29,852	95.9	10,662	95.2	2,785	89.1
10 years.....	66,826	97.2	32,514	97.2	32,312	97.1	21,792	97.4	29,810	97.5	10,861	97.4	3,080	92.7
11 years.....	66,886	97.4	32,515	97.5	32,371	97.3	21,792	97.4	29,810	97.5	10,861	97.4	3,080	92.7
12 years.....	68,238	97.1	34,447	97.1	33,791	97.1	21,969	97.4	29,834	97.5	11,236	97.7	4,336	91.3
13 years.....	68,001	96.8	31,474	96.9	31,527	96.7	20,633	97.3	26,657	97.3	10,552	97.0	4,627	90.5
14 years.....	61,110	82.8	25,551	82.7	25,559	82.9	17,635	89.3	20,093	70.4	8,630	84.3	4,167	71.1
15 years.....	30,180	64.8	18,800	62.8	20,281	66.7	14,040	70.1	14,225	58.8	5,376	67.1	2,094	48.0
16 years.....	29,306	47.3	13,517	44.2	15,789	50.3	11,564	60.5	10,068	41.0	5,044	49.2	2,273	30.8
17 years.....	19,954	33.7	9,121	31.4	10,833	35.8	8,756	46.7	6,088	26.8	3,301	34.9	1,576	20.4
18 years.....	13,372	22.2	6,369	22.0	7,003	22.6	5,485	32.3	3,881	17.2	2,198	23.1	1,169	13.2
19 years.....	9,371	15.6	4,910	16.9	4,462	14.3	4,434	23.4	2,520	11.6	1,463	16.1	833	8.6
20 years.....	6,079	10.2	3,379	12.2	2,700	8.5	2,062	10.2	1,570	7.6	939	10.8	545	5.0

TABLE 22.—ILLITERACY OF THE POPULATION 10 YEARS OF AGE AND OVER, BY AGE PERIODS, FOR THE STATE: 1920.

[See also Table 4.]

SEX AND AGE PERIOD.	ALL CLASSES: 1920			NATIVE WHITE.									FOREIGN-BORN WHITE.			NEGRO.		
	Total num- ber.	Illiterate.		Native parentage.			Foreign parentage.			Mixed parentage.			Total num- ber.	Illiterate.		Total num- ber.	Illiterate.	
		Num- ber.	Per- cent.	Total num- ber.	Illiterate. Num- ber.	Per- cent.	Total num- ber.	Illiterate. Num- ber.	Per- cent.	Total num- ber.	Illiterate. Num- ber.	Per- cent.		Total num- ber.	Illiterate. Num- ber.		Per- cent.	
10 years and over .....	3,106,789	146,607	4.7	970,471	2,926	0.3	749,685	3,938	0.5	282,378	916	0.3	1,063,572	135,720	12.8	37,663	2,565	6.8
Male.....	1,514,004	68,423	4.5	470,024	1,745	0.4	392,350	1,899	0.5	134,628	482	0.4	526,272	62,505	11.9	18,989	1,300	6.8
Female.....	1,591,865	78,184	4.9	500,447	1,181	0.2	357,329	2,039	0.5	147,750	434	0.3	537,300	73,215	13.6	18,674	1,265	6.8
21 years and over .....	2,411,507	142,750	5.9	749,761	2,469	0.3	469,865	3,254	0.7	169,815	676	0.4	988,913	133,330	13.6	30,412	2,491	8.2
Male.....	1,172,359	66,729	5.7	380,244	1,460	0.4	223,982	1,539	0.7	79,036	334	0.4	491,107	61,662	12.6	15,550	1,253	8.1
Female.....	1,239,148	76,021	6.1	369,517	1,009	0.3	245,883	1,715	0.7	90,779	342	0.4	497,806	71,668	14.4	14,862	1,238	8.3
Both sexes:																		
10 to 14 years.....	333,538	752	0.2	107,797	171	0.2	143,295	312	0.2	55,244	87	0.2	23,797	170	0.7	3,302	12	0.4
15 to 24 years.....	620,875	11,797	1.9	193,719	491	0.3	219,190	663	0.3	91,009	232	0.3	117,791	10,104	8.6	7,674	265	3.5
25 to 34 years.....	653,189	40,353	6.2	181,055	483	0.3	144,552	731	0.5	61,199	174	0.3	256,567	38,210	14.9	9,244	674	7.3
35 to 44 years.....	557,783	37,374	6.7	153,506	472	0.3	98,730	605	0.6	37,623	138	0.4	255,980	35,342	13.6	8,151	669	8.2
45 to 54 years.....	446,856	26,716	6.0	129,721	451	0.3	81,809	712	0.9	21,579	140	0.6	207,711	24,800	11.9	5,907	451	8.5
55 to 64 years.....	275,949	16,102	5.8	99,663	390	0.4	45,957	535	1.2	10,492	92	0.9	117,262	14,768	12.6	2,253	225	10.0
65 years and over.....	200,447	13,346	6.5	103,105	445	0.4	15,869	375	2.4	5,157	52	1.0	80,744	12,204	15.1	1,497	254	17.0
Male:																		
10 to 14 years.....	167,116	412	0.2	54,861	102	0.2	71,877	163	0.2	27,473	55	0.2	11,748	84	0.7	1,606	8	0.5
15 to 24 years.....	301,920	4,455	1.5	94,590	316	0.3	106,301	329	0.3	44,080	137	0.3	52,832	3,479	6.6	3,747	162	4.3
25 to 34 years.....	319,551	17,972	5.6	88,366	281	0.3	69,376	364	0.5	28,442	89	0.3	128,224	16,822	13.1	4,662	353	7.6
35 to 44 years.....	270,088	18,770	6.8	74,956	280	0.4	40,076	307	0.7	17,995	65	0.4	132,141	17,609	13.3	4,220	374	8.9
45 to 54 years.....	224,620	13,852	6.2	64,634	268	0.4	39,259	350	0.9	10,175	69	0.7	106,077	12,738	12.0	2,884	224	7.8
55 to 64 years.....	133,158	7,889	5.9	47,804	233	0.5	21,064	219	1.0	4,821	42	0.9	57,502	6,722	11.7	1,134	83	7.3
65 years and over.....	90,541	5,495	6.1	44,096	250	0.6	7,124	163	2.3	2,206	25	1.1	36,426	4,952	13.6	644	89	13.8
Female:																		
10 to 14 years.....	166,422	340	0.2	53,436	69	0.1	71,418	149	0.2	27,771	32	0.1	12,049	86	0.7	1,696	4	0.2
15 to 24 years.....	327,955	7,342	2.2	99,129	175	0.2	112,889	334	0.3	46,929	95	0.2	64,959	6,025	10.2	3,027	103	2.6
25 to 34 years.....	353,638	22,381	6.7	92,689	202	0.2	75,176	387	0.5	32,757	85	0.3	128,343	21,388	16.7	4,582	321	7.0
35 to 44 years.....	281,695	18,004	6.0	78,550	192	0.2	52,054	298	0.6	20,228	73	0.4	128,839	17,733	14.0	3,961	295	7.4
45 to 54 years.....	222,236	12,864	5.8	65,087	183	0.3	42,550	362	0.9	11,404	71	0.6	100,734	12,014	11.9	2,423	227	9.4
55 to 64 years.....	142,791	8,713	6.1	51,859	157	0.3	24,353	316	1.3	5,671	50	0.9	59,760	8,046	13.5	1,119	142	12.7
65 years and over.....	115,906	7,851	6.8	59,009	195	0.3	8,745	212	2.4	2,951	27	0.9	44,318	7,252	16.4	853	165	19.3



TABLE 23.—COUNTRY OF ORIGIN AND MOTHER TONGUE OF THE FOREIGN WHITE STOCK, FOR THE STATE: 1920.

[Figures for country of origin relate to countries as constituted prior to the World War.]

COUNTRY OF ORIGIN.	Total foreign white stock: 1920	Foreign-born white: Birth-place of father.	NATIVE WHITE OF FOREIGN OR MIXED PARENTAGE.				MOTHER TONGUE.	Total foreign white stock: 1920	Foreign-born white.	NATIVE WHITE OF FOREIGN OR MIXED PARENTAGE.			
			Total.	Both parents foreign.	Father foreign.	Mother foreign.				Total.	Both parents foreign.	Father foreign.	Mother foreign.
<b>Total.....</b>	<b>2,572,751</b>	<b>1,077,534</b>	<b>1,495,217</b>	<b>1,093,258</b>	<b>202,890</b>	<b>199,069</b>	<b>Total.....</b>	<b>2,572,751</b>	<b>1,077,534</b>	<b>1,495,217</b>	<b>1,093,258</b>	<b>202,890</b>	<b>199,069</b>
<b>Northwestern Europe:</b>							<b>English and Celtic.....</b>	<b>1,257,891</b>	<b>462,202</b>	<b>795,689</b>	<b>507,636</b>	<b>132,977</b>	<b>155,076</b>
England.....	185,546	84,338	101,208	47,929	28,645	24,634	Germanic:						
Scotland.....	65,536	34,173	31,363	16,144	7,947	7,272	German.....	76,341	27,401	48,940	33,823	9,873	5,244
Wales.....	3,122	1,275	1,847	589	698	500	Dutch and Frisian.....	4,169	2,274	1,895	1,374	358	163
Ireland.....	610,696	198,528	412,168	310,474	44,434	57,200	Flemish.....	2,269	1,747	522	384	101	37
Norway.....	9,063	5,396	4,267	2,903	768	536	Scandinavian:						
Sweden.....	75,927	38,366	37,561	30,921	3,322	3,318	Swedish.....	78,937	39,613	39,324	32,569	3,380	3,375
Denmark.....	7,021	3,696	3,325	2,027	533	465	Norwegian.....	9,475	5,329	4,146	2,907	720	519
Netherlands.....	4,176	2,371	1,805	1,293	357	155	Danish.....	6,670	3,463	3,207	1,983	786	438
Belgium.....	3,441	2,610	831	572	182	77	Latin and Greek:						
Luxemburg.....	72	43	29	7	8	14	Italian.....	237,858	117,225	120,633	112,401	7,198	1,034
Switzerland.....	2,814	1,364	1,450	650	487	307	French.....	303,821	116,304	187,457	123,048	35,749	28,660
France.....	11,391	6,369	5,022	2,584	1,612	846	Spanish.....	2,169	1,857	812	320	317	175
<b>Central and Eastern Europe:</b>							Portuguese.....	99,096	53,431	45,665	40,655	4,274	1,336
Germany.....	71,568	25,712	45,856	31,583	9,401	4,872	Rumanian.....	834	566	268	231	23	14
Austria.....	94,821	45,265	49,256	46,609	1,063	984	Greek.....	29,044	21,032	8,012	7,504	475	33
Hungary.....	4,332	2,269	2,063	1,758	186	119	Slavic and Lettic:						
Russia.....	274,000	148,101	126,499	120,444	4,434	1,621	Polish.....	145,822	69,894	75,928	73,778	1,441	709
Finland.....	26,173	14,566	11,007	10,988	241	378	Czech.....	3,648	1,545	2,103	1,037	248	218
Rumania.....	1,893	1,224	609	586	60	23	Slovak.....	2,732	1,246	1,480	1,397	68	21
Bulgaria, Serbia, and Montenegro.....	409	345	64	45	16	3	Russian.....	32,617	18,166	14,451	13,386	818	297
Turkey in Europe.....	2,958	2,479	479	417	57	5	Ruthenian.....	1,296	854	442	435	6	1
<b>Southern Europe:</b>							Slovenian.....	614	315	299	268	26	15
Greece.....	28,230	20,355	7,875	7,374	469	32	Serbo-Croatian.....	796	716	80	58	16	6
Italy.....	238,178	117,613	120,565	112,323	7,216	1,026	Bulgarian.....	95	82	13	2	11	.....
Spain.....	1,341	836	505	222	213	70	Slavic, not specified.....	44,064	25,030	19,034	18,601	287	86
Portugal.....	49,215	28,218	20,997	18,450	1,989	558	Lithuanian and Lettish.....						
Europe, not specified.....	112	40	72	38	25	9	Unclassified:						
<b>Asia:</b>							Yiddish and Hebrew.....	141,228	74,374	66,854	62,828	2,945	1,081
Turkey in Asia.....	27,954	17,585	10,369	9,877	409	83	Magyar.....	1,606	810	790	617	92	87
All other countries.....	478	194	284	61	107	116	Finnish.....	23,120	12,948	10,172	9,609	192	311
<b>America:</b>							Armenian.....	13,204	8,896	4,308	4,086	210	12
Canada—French.....	287,897	107,964	179,933	118,487	33,795	27,651	Syrian and Arabic.....	13,270	7,444	5,826	5,614	154	58
Canada—Other.....	318,502	132,912	185,590	73,500	49,083	63,007	Turkish.....	1,334	1,103	231	194	35	2
Newfoundland.....	14,007	6,738	7,269	4,706	980	1,577	Albanian.....	2,854	1,943	411	356	52	3
West Indies.....	1,406	703	703	104	355	184	All other.....	38	27	11	9	1	1
Mexico.....	178	115	63	12	20	31	Unknown.....	354	137	217	103	57	57
Cent. and South America.....	679	378	301	54	144	103	Of mixed mother tongue.....	35,985	.....	35,985	35,985	.....	.....
All other.....	50,198	25,393	24,805	20,904	2,728	1,173							
Of mixed foreign parentage.....	98,517	.....	98,517	98,517	.....	.....							

<sup>1</sup> Except possessions of the United States.<sup>2</sup> Probably includes a considerable proportion of Hebrews erroneously reported as of Russian mother tongue.

TABLE 24.—OWNERSHIP OF HOMES, FOR COUNTIES AND PLACES HAVING 10,000 INHABITANTS OR MORE: 1920.

COUNTY OR CITY.	Total homes.	Rented.	OWNED.				Tenure unknown.	COUNTY OR CITY.	Total homes.	Rented.	OWNED.				Tenure unknown.
			Total.	Free.	Encumbered.	Un-known.					Total.	Free.	Encumbered.	Un-known.	
<b>The state.....</b>	<b>874,798</b>	<b>564,097</b>	<b>301,245</b>	<b>126,312</b>	<b>171,741</b>	<b>3,192</b>	<b>9,456</b>	<b>CITIES, ETC.—CON.</b>							
<b>COUNTIES.</b>								Boston.....	164,785	132,658	30,132	9,998	19,609	525	1,995
Barnstable.....	7,769	2,370	5,349	3,960	1,382	7	50	Ward 1.....	5,364	4,006	1,366	360	939	7	52
Berkshire.....	26,204	15,383	10,196	5,471	4,558	167	685	Ward 2.....	7,266	5,840	1,334	275	1,089	20	92
Bristol.....	80,340	53,512	26,373	11,890	14,268	215	455	Ward 3.....	3,964	3,165	745	418	324	3	54
Dukes.....	1,271	369	882	604	210	8	20	Ward 4.....	3,412	2,893	468	254	208	6	51
Essex.....	111,606	69,904	40,319	18,130	21,748	441	1,383	Ward 5.....	12,331	11,611	574	77	477	20	146
Franklin.....	12,023	5,274	6,588	3,477	3,029	82	161	Ward 6.....	6,515	5,985	371	88	277	6	159
Hampden.....	66,482	44,738	21,003	6,372	14,263	368	741	Ward 7.....	8,625	8,103	371	149	213	9	151
Hampshire.....	15,496	7,229	7,837	3,497	4,171	169	430	Ward 8.....	8,614	7,127	1,328	859	454	15	159
Middlesex.....	179,344	112,828	66,259	27,315	38,794	150	257	Ward 9.....	6,230	5,283	878	427	420	31	69
Nantucket.....	879	305	567	383	183	1	7	Ward 10.....	5,749	4,495	1,217	490	700	27	37
Norfolk.....	50,130	25,108	24,311	9,994	14,152	165	711	Ward 11.....	6,012	4,862	1,057	360	692	5	93
Plymouth.....	38,731	20,051	18,244	8,676	9,435	133	436	Ward 12.....	6,353	5,584	694	279	388	27	75
Suffolk.....	183,753	145,742	35,772	11,423	23,715	634	2,239	Ward 13.....	6,688	6,219	365	176	186	3	104
Worcester.....	100,710	61,284	37,545	15,060	21,833	652	1,881	Ward 14.....	5,687	4,918	725	254	435	36	44
<b>CITIES, ETC.</b>								Ward 15.....	5,955	4,879	1,000	386	606	8	76
Adams town.....	2,793	1,770	981	431	523	27	42	Ward 16.....	6,503	5,309	1,153	399	741	13	41
Amesbury town.....	2,502	1,251	1,225	719	497	9	26	Ward 17.....	6,238	4,961	1,281	364	861	6	46
Arlington town.....	4,335	2,387	1,942	565	1,364	13	6	Ward 18.....	6,331	4,978	1,302	310	947	45	51
Attleboro.....	4,712	3,069	1,615	715	894	6	28	Ward 19.....	5,719	4,067	1,597	388	1,132	77	55
Balmain town.....	2,566	1,535	1,029	329	698	2	2	Ward 20.....	6,049	4,166	1,822	517	1,293	12	61
Beverly.....	6,463	3,285	2,136	886	1,233	17	42	Ward 21.....	7,103	5,100	1,949	436	1,493	20	54
								Ward 22.....	6,054	4,591	1,378	540	826	10	87
								Ward 23.....	6,013	2,773	3,207	969	2,222	16	33
								Ward 24.....	5,186	2,923	2,198	674	1,441	83	65
								Ward 25.....	6,413	5,642	718	256	458	4	53
								Ward 26.....	4,411	3,148	1,146	293	837	16	117



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TABLE 24.—OWNERSHIP OF HOMES, FOR COUNTIES AND PLACES HAVING 10,000 INHABITANTS OR MORE: 1920—Con.

COUNTY OR CITY.	Total homes.	Rented.	OWNED.				Tenure unknown.	COUNTY OR CITY.	Total homes.	Rented.	OWNED.				Tenure unknown.
			Total.	Free.	Encum- bered.	Un- known.					Total.	Free.	Encum- bered.	Un- known.	
CITIES, ETC.—CON.								CITIES, ETC.—CON.							
Braintree town.....	2,504	1,087	1,396	621	768	7	21	Lynn.....	23,308	16,531	6,517	2,343	4,068	106	260
Brookton.....	16,884	10,451	5,498	1,595	3,856	47	135	Ward 1.....	909	344	550	238	310	2	15
Ward 1.....	1,499	1,499	811	260	540	11	20	Ward 2.....	1,705	834	860	208	590	64	11
Ward 2.....	2,075	1,448	610	210	302	8	10	Ward 3.....	5,413	3,567	1,785	729	1,042	14	61
Ward 3.....	2,565	1,509	1,047	264	776	7	9	Ward 4.....	4,034	3,274	605	238	399	8	65
Ward 4.....	1,767	1,173	580	205	371	4	14	Ward 5.....	4,705	3,856	709	288	506	5	50
Ward 5.....	2,037	1,283	734	182	550	2	20	Ward 6.....	5,309	4,046	1,222	408	803	11	41
Ward 6.....	2,757	1,919	799	210	581	8	19	Ward 7.....	1,233	610	606	188	418	2	17
Ward 7.....	2,553	1,620	917	264	645	7	36	Malden.....	11,238	7,162	4,061	1,417	2,639	5	15
Brookline town.....	8,603	6,266	2,227	967	1,217	43	110	Marlborough.....	3,527	1,859	1,667	849	817	1	1
Cambridge.....	25,293	20,790	4,454	1,774	2,668	12	49	Medford.....	9,351	5,400	3,948	1,001	2,941	6	30
Ward 1.....	1,162	1,030	131	46	85	.....	1	Melrose.....	4,896	1,860	2,536	809	1,725	2	.....
Ward 2.....	1,167	973	190	59	131	.....	1	Methuen.....	3,002	1,727	1,329	510	1,250	69	46
Ward 3.....	2,116	1,859	252	86	165	.....	5	Milford town.....	2,962	1,551	1,360	700	652	8	51
Ward 4.....	2,154	1,031	221	80	141	.....	1	Natick town.....	2,698	1,260	1,437	663	773	1	1
Ward 5.....	2,445	1,981	462	187	273	.....	2	New Bedford.....	26,858	19,105	7,651	2,936	4,678	37	102
Ward 6.....	3,119	2,792	307	106	201	.....	20	Ward 1.....	5,774	4,301	1,458	324	1,119	13	17
Ward 7.....	3,011	2,594	415	149	266	.....	2	Ward 2.....	4,450	3,519	929	318	607	4	11
Ward 8.....	2,458	2,063	393	192	200	.....	1	Ward 3.....	3,243	2,062	1,165	575	586	4	16
Ward 9.....	3,130	2,314	814	383	428	.....	3	Ward 4.....	3,008	1,860	1,215	613	601	1	23
Ward 10.....	2,134	1,573	555	207	346	.....	2	Ward 5.....	4,200	2,732	1,500	731	757	12	28
Ward 11.....	2,397	1,680	714	270	432	.....	3	Ward 6.....	6,024	4,631	1,386	375	1,008	3	7
Chelsea.....	8,833	6,781	1,975	432	1,531	12	77	Newburyport.....	3,738	2,083	1,582	918	649	15	73
Chilcopee.....	7,004	4,391	2,457	718	1,689	50	156	Newton.....	10,189	4,864	5,309	2,299	2,907	13	16
Clinton town.....	2,824	1,682	1,100	529	564	7	42	North Adams.....	5,018	3,430	1,482	839	633	10	106
Danvers town.....	2,345	1,050	1,279	674	600	5	16	Northampton.....	4,770	2,410	2,227	852	1,350	25	133
Dedham town.....	2,409	1,093	1,290	553	737	.....	26	Northbridge town.....	2,033	1,698	338	199	137	2	



## POPULATION—MASSACHUSETTS.

TABLE 25.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920.

[Population 10 years of age and over—Total, 3,106,769; males, 1,514,904; females, 1,591,865. Persons gainfully occupied—Total, 1,728,318; males, 1,225,163; females, 503,155. Per cent of persons 10 years of age and over gainfully occupied—Total, 55.6; males, 80.9; females, 31.6.]

SEX AND OCCUPATION.	COLOR OR RACE, NATIVITY, AND PARENTAGE.						AGE PERIODS.					
	Total.	Native white.		Foreign-born white.	Negro.	Ind., Chl., Jap., and all other.	10 to 17 years.	18 and 19 years.	20 to 24 years.	25 to 44 years (in- cludes age un- known).	45 to 64 years.	65 years and over.
		Native parent- age.	Foreign or mixed parent- age.									
<b>MALES.</b>	<b>1,225,163</b>	<b>362,009</b>	<b>361,091</b>	<b>493,397</b>	<b>16,345</b>	<b>2,321</b>	<b>58,353</b>	<b>47,266</b>	<b>140,965</b>	<b>1583,267</b>	<b>340,058</b>	<b>55,254</b>
<b>Agriculture, forestry, and animal husbandry.</b>	<b>55,759</b>	<b>26,170</b>	<b>9,796</b>	<b>19,168</b>	<b>562</b>	<b>73</b>	<b>2,167</b>	<b>1,394</b>	<b>3,793</b>	<b>20,237</b>	<b>21,146</b>	<b>7,022</b>
Dairy farm laborers.	1,286	580	336	362	8	.....	165	88	209	515	272	37
Dairy farmers.	1,646	886	237	516	7	.....	.....	6	34	551	812	243
Farm foremen, general farms.	1,335	765	217	343	5	5	.....	6	56	655	529	89
Farm laborers (home farm).	1,461	714	590	152	5	.....	499	152	206	398	74	42
Farm laborers (working out).	15,429	7,014	3,254	4,887	255	19	1,186	803	1,868	5,973	4,254	1,345
Farmers, general farms.	13,648	10,760	2,407	5,437	48	6	.....	44	367	5,618	8,928	3,691
Fishermen and oystermen.	4,648	1,217	609	2,658	31	33	73	69	303	2,225	1,618	260
Florists, fruit growers, landscape gardeners, and nurserymen.	1,234	623	234	370	7	.....	.....	6	33	414	582	199
Garden laborers.	4,541	1,022	838	2,594	86	1	109	78	205	1,599	2,014	536
Gardeners.	1,224	624	188	405	7	.....	.....	4	27	350	622	221
Greenhouse laborers.	739	219	224	321	5	.....	54	33	90	326	216	50
Lumbermen, raftsmen, and woodchoppers.	1,352	517	242	565	27	1	36	54	138	598	427	99
All other occupations.	2,286	1,239	420	558	61	8	45	51	167	1,015	798	210
<b>Extraction of minerals.</b>	<b>1,195</b>	<b>234</b>	<b>186</b>	<b>760</b>	<b>15</b>	<b>.....</b>	<b>24</b>	<b>27</b>	<b>64</b>	<b>551</b>	<b>480</b>	<b>69</b>
Quarry operatives.	819	75	113	617	14	.....	20	23	44	397	301	34
All other occupations.	376	159	73	143	1	.....	4	4	20	154	159	35
<b>Manufacturing and mechanical industries.</b>	<b>668,645</b>	<b>156,155</b>	<b>191,070</b>	<b>314,838</b>	<b>6,490</b>	<b>92</b>	<b>36,488</b>	<b>27,036</b>	<b>77,388</b>	<b>322,840</b>	<b>173,795</b>	<b>26,098</b>
Apprentices to building and hand trades:												
Machinists' apprentices <sup>1</sup> .	2,218	509	1,305	337	7	.....	1,699	310	186	21	1	1
Other apprentices to building and hand trades.	1,742	462	1,056	212	9	3	1,227	235	208	66	5	1
Apprentices, other.	3,476	1,177	1,896	387	16	.....	2,186	649	408	129	12	2
Bakers.	5,407	626	1,080	3,654	45	2	83	172	543	3,065	1,411	133
Blacksmiths.	5,679	987	1,445	3,506	40	1	.....	43	229	2,296	2,640	471
Boiler makers.	1,972	316	1,005	1,033	18	.....	.....	49	240	1,170	476	37
Brick and stone masons.	6,714	1,336	1,637	3,658	87	1	.....	60	385	2,801	2,825	643
Buffets and polishers (metal).	3,006	619	1,033	1,337	17	.....	83	96	338	1,682	801	106
Builders and building contractors.	3,068	1,109	790	1,167	2	.....	.....	45	1,149	1,600	1,600	271
Cabinetmakers.	1,853	352	266	1,227	8	.....	.....	42	101	999	798	213
Carpenters.	38,629	10,409	7,422	20,614	175	9	158	595	2,034	17,857	14,076	3,209
Compositors, inotypers, and typesetters.	8,117	2,788	3,467	1,807	55	.....	101	391	1,202	3,988	2,048	267
Coopers.	765	153	174	423	15	.....	4	16	46	287	334	78
Cranemen, derrickmen, hoistmen, etc.	905	220	305	451	19	.....	4	18	104	582	268	10
Dyers.	2,395	238	561	1,531	15	.....	22	70	208	1,127	854	114
Electricians.	11,116	4,512	4,401	2,176	27	.....	.....	669	2,498	6,540	1,486	114
Electrotypers, stereotypers, and lithographers.	724	208	336	178	2	.....	6	18	67	869	243	21
Engineers (stationary).	10,062	3,624	2,273	3,761	103	1	16	42	492	4,662	4,285	666
Engravers.	1,207	455	474	336	1	.....	14	35	171	696	321	44
Flers (metal).	653	191	171	290	1	.....	21	21	62	613	321	41
Firemen (except locomotive and fire department).	8,596	1,624	1,608	5,116	247	1	39	123	689	4,506	2,939	300
Foremen and overseers (manufacturing).	23,077	7,985	7,243	7,804	43	2	.....	165	1,212	12,227	8,700	773
Forgemen, hammermen, and welders.	1,514	396	480	625	13	.....	.....	54	243	941	261	15
Furnacemen, smeltermen, heaters, pourers, etc.	566	81	137	335	13	.....	42	49	29	257	177	12
Goldsmiths and silversmiths.	595	200	220	165	1	.....	.....	10	68	333	165	29
Grinders (metal).	1,188	292	367	517	11	1	30	46	199	627	261	25
Jewelers and watchmakers (not in factory).	1,026	400	250	374	2	.....	.....	29	88	464	351	94
Laborers (not otherwise specified):												
Building, general, and not specified laborers.	16,207	2,871	2,928	9,066	792	10	391	498	1,617	7,698	5,081	922
Chemical and allied industries.	1,823	230	349	1,162	82	.....	62	81	177	876	556	71
Clay, glass, and stone industries.	836	74	145	600	17	.....	49	26	82	435	222	22
Electrical supply factories.	1,647	188	228	1,193	38	.....	50	51	176	921	412	37
Food industries—												
Slaughter and packing houses.	1,241	44	105	1,034	58	.....	13	28	105	772	207	26
Other food industries.	2,083	353	408	1,205	56	1	152	92	244	948	573	74
Gas works.	1,226	84	171	931	40	.....	20	18	82	686	381	39
Helpers in building and hand trades.	2,857	484	1,013	1,232	127	1	330	317	470	1,060	501	89
Iron and steel industries—												
Blast furnaces and steel rolling mills <sup>2</sup> .	2,243	182	318	1,722	21	.....	76	65	234	1,369	457	42
Car and railroad shops.	775	86	134	544	11	.....	25	43	70	419	187	31
Ship and boat building.	1,296	210	375	662	49	.....	56	71	158	589	380	42
Other iron and steel industries.	11,914	1,437	2,279	7,942	255	1	615	525	1,277	5,068	3,099	430
Lumber and furniture industries—												
Furniture factories.	1,225	187	238	790	10	.....	107	55	124	601	287	51
Saw and planing mills.	706	318	173	204	11	.....	71	43	93	265	186	48
Other lumber and furniture industries.	1,019	198	253	557	11	.....	110	61	104	415	264	65
Metal industries, other than iron and steel.	1,181	186	283	693	19	.....	88	57	137	587	274	38
Paper and pulp mills.	2,845	446	555	1,826	18	.....	133	110	319	1,520	683	80
Rubber factories.	4,289	405	791	3,028	65	.....	184	152	522	2,250	1,080	101
Shoe factories.	2,559	652	822	1,065	20	.....	528	200	317	886	489	139
Tanneries.	2,873	229	467	2,139	37	1	185	92	304	1,626	589	77
Textile industries—												
Cotton mills.	8,686	660	2,294	5,619	112	1	1,682	391	834	3,067	2,259	453
Textile dyeing, finishing, and printing mills.	1,850	246	407	1,177	20	.....	142	90	210	766	543	99
Woolen and worsted mills.	4,544	537	1,058	2,910	39	.....	401	214	449	1,964	1,282	234
Other textile industries.	2,519	345	578	1,508	88	.....	253	128	264	1,005	726	143
Other industries.	9,534	1,589	2,203	5,531	208	3	729	479	1,101	4,456	2,389	320
Loom fixers.	4,874	380	1,258	3,232	4	.....	.....	37	273	2,677	1,802	85
Machinists.	55,128	16,075	18,342	20,411	291	9	.....	2,470	9,369	29,366	12,376	1,547
Managers and superintendents (manufacturing).	11,199	6,103	2,970	2,123	2	1	.....	33	524	6,429	3,891	322
Manufacturers.	10,423	4,490	2,134	3,793	6	.....	.....	11	281	4,638	4,685	808
Mechanics (not otherwise specified).	10,912	4,000	3,657	3,063	130	2	.....	625	2,209	6,108	1,743	227
Millwrights.	1,981	565	483	927	6	.....	.....	26	135	961	774	85

<sup>1</sup> Includes 942 males of unknown age.<sup>2</sup> Many of the "Machinists' apprentices" probably are machine tenders.<sup>3</sup> Includes tinplate mills.<sup>4</sup> Includes box factories (wood).



## COMPOSITION AND CHARACTERISTICS.

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TABLE 25.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920—Con.

SEX AND OCCUPATION.	Total.	COLOR OR RACE, NATIVITY, AND PARENTAGE.					AGE PERIODS.						
		Native white.		Foreign-born white.	Negro.	Ind., Chi., Jap., and all other.	10 to 17 years.	18 and 19 years.	20 to 24 years.	25 to 44 years (in- cludes age un- known).	45 to 64 years.	65 years and over.	
		Native parent- age.	Foreign or mixed parent- age.										
MALES—Continued.													
Manufacturing and mechanical industries—Con.													
Molders, founders, and casters (metal):													
Iron molders, founders, and casters.....	6,463	926	1,594	3,871	69	3	.....	111	575	3,779	1,824	174	16
Other molders, founders, and casters.....	686	102	147	425	11	1	.....	8	60	393	209	16	10
Officials (manufacturing).....	2,438	1,656	486	296	.....	.....	.....	5	60	1,071	1,112	190	50
Oilers of machinery.....	1,434	245	437	725	27	.....	195	100	188	516	379	50	50
Painters, glaziers, and varnishers (building).....	14,142	4,336	3,799	5,906	99	2	41	133	741	6,679	5,576	972	72
Painters, glaziers, and varnishers (factory).....	4,710	1,201	1,499	1,882	37	1	145	110	406	2,076	1,098	275	90
Paper hangers.....	759	276	170	302	11	.....	.....	3	26	290	350	90	121
Pattern and model makers.....	1,791	672	549	568	2	.....	.....	101	278	831	480	121	61
Plasterers and cement finishers.....	1,303	110	305	876	12	.....	.....	8	68	706	460	61	209
Plumbers and gas and steam fitters.....	12,139	3,296	5,603	3,201	36	3	.....	374	1,762	8,055	2,929	209	20
Pressmen and plate printers (printing).....	974	336	447	189	2	.....	.....	.....	148	567	239	20	72
Roofers and slaters.....	1,207	256	463	476	12	.....	.....	35	156	593	351	72	54
Sawyers.....	705	344	165	247	9	.....	.....	27	50	341	293	54	.....
Semiskilled operatives (not otherwise specified):													
Blank book, envelope, tag, paper bag, etc., factories.....	899	272	373	249	5	.....	120	75	130	378	175	21	.....
Broom and brush factories.....	842	222	316	290	14	.....	63	52	116	355	215	41	.....
Chemical and allied industries.....	1,924	478	619	775	50	2	167	99	249	837	496	76	.....
Cigar and tobacco factories.....	2,634	304	705	1,621	4	.....	87	61	173	1,264	900	149	.....
Clay, glass, and stone industries—													
Glass factories.....	746	137	276	329	4	.....	79	31	80	347	188	21	.....
Other clay, glass, and stone industries.....	851	83	140	618	10	.....	19	20	57	418	289	48	.....
Clothing industries—													
Hat factories (felt).....	792	203	218	367	3	1	37	29	66	373	250	37	.....
Suit, coat, cloak, and overall factories.....	1,396	123	206	1,053	14	.....	56	34	168	767	336	35	.....
Other clothing industries.....	1,727	342	439	939	7	.....	108	78	238	843	412	48	.....
Electric light and power plants.....	1,001	367	374	259	1	.....	37	42	175	556	182	9	.....
Electrical supply factories.....	5,231	1,638	1,735	1,831	26	1	273	325	946	2,627	971	89	.....
Food industries—													
Candy factories.....	1,956	269	453	1,226	8	.....	239	129	307	904	344	33	.....
Slaughter and packing houses.....	1,367	172	228	926	31	.....	41	33	155	771	322	35	.....
Other food industries.....	2,317	525	817	946	28	1	349	149	288	920	530	81	.....
Gas works.....	689	156	244	283	6	.....	32	40	82	391	134	10	.....
Iron and steel industries—													
Automobile factories.....	2,720	864	856	976	23	1	135	143	511	1,301	556	74	.....
Blast furnaces and steel rolling mills <sup>1</sup> .....	4,677	589	1,084	2,981	23	.....	154	152	496	2,808	990	77	.....
Car and railroad shops.....	1,532	295	455	759	19	.....	37	92	174	815	363	51	.....
Ship and boat building.....	4,446	988	1,488	1,775	95	.....	204	314	718	2,377	751	82	.....
Wagon and carriage factories.....	766	194	230	338	4	.....	62	32	94	308	211	59	.....
Other iron and steel industries.....	18,161	4,809	6,168	7,012	170	2	1,427	1,179	2,841	8,389	3,791	584	.....
Leather belt, leather case, etc., factories.....	1,900	443	649	797	10	1	176	137	281	855	391	60	.....
Lumber and furniture industries—													
Furniture factories.....	3,088	771	803	1,498	16	.....	220	112	269	1,327	952	208	.....
Piano and organ factories.....	2,002	427	635	1,025	5	.....	155	89	196	922	596	134	.....
Saw and planing mills <sup>2</sup> .....	1,158	480	296	370	12	.....	88	62	120	486	340	62	.....
Other wood working factories.....	3,012	958	884	1,157	12	1	254	159	351	1,155	884	209	.....
Metal industries, other than iron and steel—													
Brass mills.....	696	170	259	260	7	.....	47	25	83	289	220	32	.....
Clock and watch factories.....	1,600	659	471	467	3	.....	55	64	208	767	425	81	.....
Jewelry factories.....	3,065	984	1,178	898	5	.....	309	174	348	1,397	696	141	.....
Other metal industries.....	1,305	328	462	507	8	.....	123	79	167	554	339	43	.....
Paper and pulp mills.....	7,138	1,394	2,257	3,468	19	.....	306	412	901	3,597	1,674	188	.....
Printing, publishing, and engraving.....	2,533	599	1,272	553	9	.....	390	276	367	974	478	48	.....
Rubber factories.....	10,414	1,638	3,011	5,737	28	.....	471	520	1,801	5,555	1,876	191	.....
Shoe factories.....	56,247	16,979	18,406	20,637	220	5	4,998	2,727	7,054	20,909	12,653	1,906	.....
Tanneries.....	9,494	1,447	2,843	5,118	51	.....	463	402	1,173	4,823	2,299	304	.....
Textile industries—													
Carpet mills.....	1,495	278	564	651	2	.....	213	94	197	606	333	52	.....
Cotton mills.....	46,938	2,925	13,562	29,382	1,065	4	6,097	2,820	6,415	21,431	9,215	960	.....
Hemp and jute mills.....	600	34	117	509	.....	.....	130	36	80	328	81	5	.....
Knitting mills.....	1,855	270	627	953	6	.....	194	138	339	853	289	42	.....
Rope and cordage factories.....	1,246	135	222	797	91	1	95	73	187	601	254	36	.....
Silk mills.....	1,495	194	495	803	3	.....	236	120	251	609	249	30	.....
Textile dyeing, finishing, and printing mills.....	3,339	471	1,034	1,820	14	.....	368	205	430	1,359	864	113	.....
Woolen and worsted mills.....	26,750	2,998	7,985	14,719	52	1	2,560	1,304	3,109	12,103	5,962	722	.....
Other textile industries.....	3,923	566	1,442	1,880	32	3	512	232	631	1,614	889	145	.....
Other industries.....	16,226	4,152	5,095	6,812	166	1	1,568	939	2,153	7,054	3,823	689	.....
Shoemakers and cobblers (not in factory).....	4,055	338	372	3,322	22	1	80	56	254	1,991	1,303	371	.....
Stonecutters.....	1,883	119	292	1,469	3	.....	.....	11	79	916	763	114	.....
Structural iron workers (building).....	952	177	304	464	7	.....	.....	15	102	606	217	12	.....
Tailors.....	8,496	182	312	7,929	71	2	11	50	443	5,057	2,646	289	.....
Tinsmiths and sheet metal workers.....	3,179	697	1,075	1,398	9	.....	.....	133	456	1,634	814	142	.....
Toolmakers and die setters and sinkers.....	4,702	1,599	1,611	1,483	8	1	.....	202	777	2,749	851	123	.....
Upholsterers.....	1,607	437	500	650	20	.....	33	62	176	608	598	132	.....
All other occupations.....	2,742	842	748	1,143	8	1	13	85	292	1,396	837	149	.....
Transportation.....	111,350	34,835	37,144	37,360	1,989	22	2,313	4,114	14,670	57,243	29,490	3,520	.....
Baggage men.....	661	306	221	130	4	.....	.....	10	57	340	224	24	.....
Brakemen.....	4,102	1,661	1,635	792	14	.....	.....	140	735	2,604	595	28	.....
Captains, masters, mates, and pilots.....	1,824	510	287	512	15	.....	.....	20	146	585	496	77	.....
Chauffeurs.....	22,772	7,276	9,882	5,513	591	10	290	1,481	5,731	13,070	2,153	47	.....
Conductors (steam railroad).....	2,225	1,063	782	880	.....	.....	.....	14	113	1,187	857	74	.....
Conductors (street railroad).....	4,513	1,408	1,927	1,118	.....	.....	9	114	805	2,893	673	49	.....
Draymen, teamsters, and expressmen <sup>3</sup> .....	18,779	5,506	7,036	5,863	371	4	772	988	2,527	8,552	5,330	600	.....
Foremen and overseers (steam railroad).....	1,269	369	271	623	6	.....	.....	7	30	555	609	68	.....
Foremen and overseers (street railroad).....	586	164	191	230	1	.....	.....	1	5	322	246	12	.....
Foremen and overseers (other transportation industries).....	1,664	617	532	506	9	.....	.....	10	58	914	607	75	.....
Garage keepers and managers.....	1,679	786	442	347	4	.....	.....	12	110	1,048	392	17	.....

<sup>1</sup> Includes tinsplate mills.<sup>2</sup> Includes box factories (wood).<sup>3</sup> Teamsters in agriculture, forestry, and the extraction of minerals are classified with the other workers in those industries, respectively; and drivers for bakeries and laundries are classified with deliverymen in trade.



TABLE 25.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920—Con.

SEX AND OCCUPATION.	Total.	COLOR OR RACE, NATIVITY, AND PARENTAGE.					AGE PERIODS.						
		Native white.		Foreign-born white.	Negro.	Ind., Chi., Jap., and all other.	10 to 17 years.	18 and 19 years.	20 to 24 years.	25 to 44 years (includes age unknown).	45 to 64 years.	65 years and over.	
		Native parent-age.	Foreign or mixed parent-age.										
MALES—Continued.													
Transportation—Continued.													
Hostlers and stable hands.....	1,359	323	330	650	56	.....	39	22	44	369	746	139	
Inspectors (steam railroad).....	984	326	254	402	2	.....	.....	10	75	497	367	35	
Laborers:													
Garage.....	793	207	291	261	34	.....	104	62	119	332	155	21	
Road and street building and repairing.....	5,296	651	1,012	3,533	98	2	57	73	316	2,061	2,293	496	
Steam railroad.....	7,512	864	1,264	5,192	191	1	154	235	634	3,850	2,428	211	
Street railroad.....	1,166	120	194	828	24	.....	27	26	70	536	439	68	
Other transportation industries.....	974	169	320	448	37	.....	41	55	136	423	282	37	
Locomotive engineers.....	2,423	1,443	540	440	.....	.....	.....	.....	35	1,196	1,070	122	
Locomotive firemen.....	2,011	958	648	384	21	.....	.....	68	408	1,379	141	15	
Longshoremen and stevedores.....	2,843	220	674	1,772	275	2	11	23	198	1,672	860	79	
Mail carriers.....	3,501	1,313	1,769	397	21	1	49	40	163	1,810	1,297	142	
Motormen (street railroad).....	4,601	1,368	1,098	2,135	.....	.....	.....	11	184	2,782	1,538	86	
Officials and superintendents (steam railroad).....	772	393	263	116	.....	.....	.....	2	42	367	337	24	
Proprietors and managers of transfer companies.....	1,134	429	349	348	8	.....	.....	2	59	586	436	51	
Proprietors, officials, and managers (not otherwise specified).....	713	413	193	107	.....	.....	.....	6	32	385	200	30	
Railway mail clerks.....	601	294	248	55	4	.....	.....	14	59	330	180	18	
Sailors and deck hands.....	2,240	576	678	840	146	.....	127	268	455	854	464	72	
Switchmen and flagmen (steam railroad).....	2,903	1,034	848	1,009	12	.....	6	33	137	891	1,349	487	
Telegraph and telephone linemen.....	1,872	750	672	448	2	.....	6	41	266	1,354	201	4	
Telegraph operators.....	1,426	605	582	238	1	.....	28	102	351	647	283	15	
Ticket and station agents.....	877	505	248	124	.....	.....	5	14	55	410	333	60	
All other occupations.....	5,875	2,148	2,064	1,619	42	2	588	204	515	2,482	1,849	237	
Trade.....	160,831	59,200	47,187	53,063	1,240	171	6,249	5,079	16,729	78,381	47,280	7,113	
Bankers, brokers, and money lenders:													
Bankers and bank officials.....	2,038	1,547	325	166	.....	.....	.....	.....	76	934	828	200	
Commercial brokers and commission men.....	1,057	655	257	144	1	.....	.....	2	57	503	407	88	
Stockbrokers.....	2,137	1,398	506	232	1	.....	.....	.....	216	1,278	587	56	
Other brokers and money lenders.....	719	352	210	157	.....	.....	.....	.....	51	367	265	36	
Clerks in stores <sup>1</sup> .....	12,436	4,257	5,180	2,928	60	11	1,826	1,293	2,339	4,685	2,006	287	
Commercial travelers.....	9,206	4,824	2,916	1,460	5	1	.....	98	599	5,284	2,635	290	
Deliverymen.....	10,830	2,886	3,091	3,544	209	.....	709	638	1,505	5,133	2,118	137	
Floorwalkers and foremen in stores.....	1,020	352	301	335	2	.....	.....	8	62	542	359	49	
Insurance agents.....	5,514	2,571	1,546	1,387	9	1	.....	34	460	2,890	1,710	320	
Laborers (coal yards).....	1,794	235	297	1,059	202	1	45	39	123	894	643	50	
Laborers (lumberyards).....	629	187	257	465	20	.....	49	37	107	386	306	44	
Laborers (warehouses).....	880	123	241	502	13	1	30	39	97	532	172	10	
Laborers, porters, and helpers in stores.....	4,171	726	1,190	1,906	348	1	480	232	439	1,812	1,043	165	
Meat cutters.....	2,189	712	661	799	17	.....	25	35	186	1,140	730	73	
Newshoys.....	613	266	447	162	7	1	784	38	40	35	13	3	
Officials of insurance companies.....	844	452	202	160	.....	.....	.....	.....	19	434	334	57	
Proprietors, officials, and managers (not otherwise specified).....	842	494	202	144	2	.....	.....	2	40	422	325	53	
Real estate agents and officials.....	5,026	2,284	1,196	1,496	50	.....	.....	14	131	1,720	2,535	620	
Retail dealers <sup>2</sup> .....	49,866	14,660	10,682	24,242	162	130	101	380	2,747	25,270	16,628	2,840	
Sales agents.....	1,864	981	603	280	.....	.....	.....	38	226	1,046	475	79	
Salesmen (stores).....	30,437	16,190	14,127	9,009	92	19	1,992	2,015	6,398	19,294	8,562	1,188	
Undertakers.....	1,109	496	430	173	10	.....	.....	9	65	492	458	85	
Wholesale dealers, importers, and exporters.....	3,961	1,708	877	1,370	1	5	.....	23	166	1,969	1,529	274	
All other occupations.....	2,549	754	813	943	39	.....	118	105	290	1,213	712	111	
Public service (not elsewhere classified).....	37,232	11,451	13,744	11,567	422	48	485	1,411	3,363	15,359	13,872	2,742	
Firemen (fire department).....	3,994	1,343	2,022	628	1	.....	.....	8	162	2,491	1,242	91	
Guards, watchmen, and doorkkeepers.....	5,999	1,678	1,634	2,811	76	.....	5	28	122	1,280	3,531	1,023	
Laborers (public service).....	8,123	914	2,135	4,854	217	3	85	141	446	2,989	3,749	713	
Marshals, sheriffs, detectives, etc.....	738	299	307	130	2	.....	.....	2	22	309	322	83	
Officials and inspectors (city and county).....	2,284	1,082	876	303	2	1	.....	.....	33	775	1,091	365	
Officials and inspectors (state).....	464	264	159	51	.....	.....	.....	.....	15	222	193	34	
Policemen.....	5,990	1,660	2,907	1,381	41	1	.....	3	417	3,291	2,090	189	
Postmasters.....	569	275	247	47	.....	.....	.....	1	7	194	302	65	
Soldiers, sailors, and marines <sup>3</sup> .....	5,666	2,552	2,251	776	58	29	345	1,164	1,833	2,055	259	10	
United States officials (except postmasters).....	1,766	923	649	191	.....	.....	.....	.....	159	1,067	471	69	
All other occupations.....	1,659	571	657	395	25	11	50	64	147	676	622	100	
Professional service.....	50,626	29,270	14,724	9,186	412	34	293	731	4,778	27,010	15,329	2,485	
Actors.....	534	225	205	96	8	.....	5	10	68	327	118	6	
Architects.....	1,093	684	259	147	3	.....	.....	.....	65	586	386	50	
Artists, sculptors, and teachers of art.....	1,095	515	268	304	5	3	8	19	83	511	392	82	
Chemists, assayers, and metallurgists.....	1,657	866	500	272	8	2	.....	.....	351	954	308	44	
Civil engineers and surveyors.....	2,968	1,853	778	322	4	1	.....	.....	326	1,740	771	121	
Clergymen.....	3,823	1,424	1,074	1,240	84	1	.....	.....	52	1,713	1,680	378	
College presidents and professors <sup>4</sup> .....	1,251	908	209	131	2	1	.....	.....	73	692	437	49	
Dentists.....	3,037	1,423	1,083	501	28	2	.....	.....	335	1,816	774	112	
Designers.....	766	274	206	274	2	.....	.....	15	77	425	215	24	
Draftsmen.....	3,475	1,669	1,288	510	8	.....	.....	266	1,014	1,809	346	40	
Editors and reporters.....	1,542	914	439	185	4	.....	9	33	174	732	519	75	
Electrical engineers.....	1,448	981	321	195	.....	1	.....	.....	145	988	299	16	
Lawyers, judges, and justices.....	4,851	2,810	1,557	454	80	.....	.....	.....	164	2,674	1,692	321	
Mechanical engineers.....	2,104	1,267	493	344	.....	.....	.....	.....	196	1,326	526	56	
Musicians and teachers of music.....	3,314	1,240	1,075	890	106	3	55	92	436	1,727	863	141	
Photographers.....	1,184	487	308	378	10	1	34	42	112	583	356	57	

<sup>1</sup> Many of the "Clerks in stores" probably are "Salesmen."<sup>2</sup> Includes, also, managers and superintendents of retail stores.<sup>3</sup> Includes only those resident in continental United States at the date of the enumeration.<sup>4</sup> Probably includes some teachers in schools below collegiate rank.



TABLE 25.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920—Con.

SEX AND OCCUPATION.	Total.	COLOR OR RACE, NATIVITY, AND PARENTAGE.					AGE PERIODS.						
		Native white.		Foreign-born white.	Negro.	Ind., Chi., Jap., and all other.	10 to 17 years.	18 and 19 years.	20 to 24 years.	25 to 44 years (includes age unknown).	45 to 64 years.	65 years and over.	
		Native parentage.	Foreign or mixed parentage.										
MALES—Continued.													
Professional service—Continued.													
Physicians and surgeons.....	5,475	3,132	1,443	852	42	6	.....	.....	109	2,765	2,222	379	
Religious, charity, and welfare workers.....	720	371	168	185	1	.....	4	13	57	378	231	37	
Showmen.....	755	249	286	203	15	2	.....	46	120	451	108	14	
Teachers (school).....	4,092	2,398	1,057	624	12	1	7	46	386	2,330	1,172	141	
Theatrical owners, managers, and officials.....	607	270	232	105	.....	.....	.....	13	48	325	205	16	
All other occupations.....	4,855	2,360	1,471	974	40	10	154	136	378	2,153	1,709	320	
Domestic and personal service.....	54,294	11,395	11,539	24,837	4,679	1,844	1,353	1,095	4,072	25,142	18,798	3,834	
Barbers, hairdressers, and manicurists.....	7,141	764	1,400	4,835	132	1	67	68	445	4,054	2,323	184	
Bartenders.....	956	131	334	490	1	.....	3	2	32	555	353	11	
Billiard and pool room keepers.....	631	146	169	303	12	1	.....	10	58	381	163	19	
Boarding and lodging house keepers.....	748	234	123	374	16	1	.....	2	11	243	377	115	
Bootblacks.....	617	15	69	497	36	.....	79	25	64	336	99	14	
Charmen and cleaners.....	799	121	142	485	51	.....	14	9	55	458	212	51	
Elevator tenders.....	2,161	449	532	993	187	.....	91	115	176	585	819	375	
Hotel keepers and managers.....	1,036	428	335	266	7	.....	.....	1	12	411	530	82	
Housekeepers and stewards.....	1,043	277	226	425	110	5	.....	12	49	489	432	61	
Janitors and sextons.....	9,730	2,858	2,203	3,779	887	3	68	39	192	2,813	4,004	1,624	
Laborers (domestic and professional service).....	1,467	316	348	763	47	3	50	38	103	638	578	160	
Laundry operatives <sup>1</sup> .....	2,600	425	473	564	55	1,092	95	73	231	1,226	909	75	
Laundry owners, officials, and managers <sup>1</sup> .....	726	240	173	200	2	111	.....	3	20	389	203	21	
Nurses (not trained).....	1,533	559	476	400	8	.....	.....	56	229	719	436	93	
Porters (except in stores).....	2,150	224	334	633	958	1	36	43	192	1,054	757	68	
Restaurant, café, and lunch room keepers.....	2,707	698	572	1,308	38	91	.....	17	148	1,652	818	72	
Servants.....	11,412	2,217	2,139	5,610	1,117	329	630	351	1,183	5,568	3,691	589	
Waiters.....	5,161	797	1,024	2,183	954	203	204	219	787	2,078	907	86	
All other occupations.....	1,667	496	458	649	61	3	16	12	85	693	707	154	
Clerical occupations.....	85,231	36,299	35,731	12,618	546	37	8,981	6,379	16,108	36,504	14,888	2,371	
Accountants and auditors.....	5,084	2,875	1,003	603	2	1	.....	100	779	3,026	1,021	158	
Agents.....	5,410	3,090	1,574	742	2	2	12	75	436	2,023	1,703	281	
Bookkeepers and cashiers.....	11,160	5,160	4,536	1,431	13	20	365	834	2,562	5,002	1,990	407	
Canvassers.....	404	201	106	95	2	.....	11	6	32	175	135	45	
Clerks (except clerks in stores).....	54,533	22,264	23,125	8,719	411	14	3,769	4,706	11,265	23,991	9,459	1,343	
Collectors.....	1,144	446	415	278	5	.....	18	32	133	523	351	87	
Messenger, bundle, and office boys <sup>2</sup> .....	5,492	1,537	3,247	612	96	.....	4,681	324	125	167	135	60	
Stenographers and typists.....	2,004	726	1,125	138	15	.....	125	302	776	697	94	10	
FEMALES.....	503,155	141,049	202,331	151,510	8,159	106	48,092	43,119	106,596	212,542	84,669	9,937	
Agriculture, forestry, and animal husbandry.....	1,798	938	315	523	20	.....	94	33	71	495	772	331	
Dairy farm, farm, and stock farm laborers.....	430	113	116	199	2	.....	82	31	42	162	96	17	
Farmers, general farms.....	923	575	120	217	11	.....	.....	10	193	472	248	248	
All other occupations.....	443	250	79	107	7	.....	12	2	19	140	204	66	
Extraction of minerals (all occupations).....	3	.....	2	1	.....	.....	.....	.....	.....	2	.....	1	
Manufacturing and mechanical industries.....	219,253	41,751	95,611	80,346	1,521	24	33,131	21,077	43,278	87,894	31,339	2,534	
Apprentices.....	471	91	280	93	7	.....	383	48	23	15	2	.....	
Compositors, linotypers, and typesetters.....	987	378	478	117	13	1	35	93	172	497	175	15	
Dressmakers and seamstresses (not in factory).....	10,590	3,472	2,946	3,782	396	3	51	174	587	4,042	4,910	835	
Forewomen and overseers (manufacturing).....	3,219	955	1,657	508	7	2	.....	129	542	1,926	602	20	
Laborers (not otherwise specified):													
Iron and steel industries.....	475	123	193	152	7	.....	114	59	97	161	39	5	
Shoe factories.....	539	168	236	131	3	1	137	63	109	175	52	3	
Textile industries—													
Cotton mills.....	1,383	103	466	803	11	.....	350	98	206	483	218	28	
Other textile industries.....	952	139	386	417	9	1	167	114	181	315	160	15	
Other industries.....	2,741	581	1,167	946	46	1	518	342	505	985	359	32	
Manufacturers and officials.....	606	303	197	106	5	.....	.....	78	321	321	177	30	
Milliners and millinery dealers.....	3,295	1,096	1,488	679	31	1	94	146	512	1,743	748	52	
Semiskilled operatives (not otherwise specified):													
Blank book, envelope, tag, paper bag, etc., factories.....	2,174	605	1,221	338	10	.....	408	303	589	705	158	11	
Broom and brush factories.....	585	154	292	138	1	.....	79	62	139	233	69	3	
Chemical and allied industries.....	1,421	365	710	334	12	.....	231	189	323	529	140	9	
Cigar and tobacco factories.....	988	91	336	552	9	.....	99	72	138	466	201	12	
Clothing industries—													
Corset factories.....	1,350	349	715	286	.....	.....	237	127	258	501	211	16	
Hat factories (felt).....	787	274	306	204	3	.....	60	55	114	331	206	21	
Shirt, collar, and cuff factories.....	1,074	247	500	319	8	.....	109	87	216	447	203	12	
Suit, coat, cloak, and overall factories.....	1,791	216	549	998	27	1	241	138	294	755	344	19	
Other clothing industries.....	6,082	1,233	2,333	2,386	129	1	587	429	1,091	2,549	1,317	109	
Electrical supply factories.....	3,898	947	1,718	1,206	27	.....	463	625	1,092	1,517	189	12	
Food industries—													
Bakeries.....	718	153	348	211	6	.....	223	97	146	198	52	2	
Candy factories.....	4,186	670	2,372	1,129	14	1	1,427	562	935	1,061	187	14	
Other food industries.....	1,362	253	683	419	7	.....	297	196	271	447	142	9	
Iron and steel industries—													
Automobile factories.....	508	139	228	133	8	.....	72	68	139	186	43	.....	
Blast furnaces and steel rolling mills <sup>4</sup> .....	634	122	312	197	3	.....	102	87	142	255	45	3	
Other iron and steel industries.....	4,876	1,304	2,424	1,131	17	.....	791	746	1,270	1,680	360	29	

<sup>1</sup> Some owners of hand laundries probably are included with laundry operatives.<sup>2</sup> Except telegraph messengers.<sup>3</sup> Includes 412 females of unknown age.<sup>4</sup> Includes tinplate mills.



## POPULATION—MASSACHUSETTS.

TABLE 25.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920—Con.

SEX AND OCCUPATION.	Total.	COLOR OR RACE, NATIVITY, AND PARENTAGE.					AGE PERIODS.						
		Native white.		Foreign-born white.	Negro.	Ind., Chi., Jap., and all other.	10 to 17 years.	18 and 19 years.	20 to 24 years.	25 to 44 years (includes age unknown).	45 to 64 years.	65 years and over.	
		Native parent-age.	Foreign or mixed parent-age.										
FEMALES—Continued.													
Manufacturing and mechanical industries—Con.													
Semiskilled operatives (not otherwise specified)—Con.													
Leather belt, leather case, etc., factories.....	742	229	342	166	5	118.	94	179	253	89	9		
Lumber and furniture industries—													
Furniture factories.....	524	81	225	216	2	90	54	94	216	64	6		
Other lumber and furniture industries.....	861	222	406	232	1	167	97	176	311	100	10		
Metal industries, other than iron and steel—													
Clock and watch factories.....	1,451	444	599	407	1	95	140	327	663	213	13		
Jewelry factories.....	2,150	672	997	467	14	383	241	389	883	258	16		
Other metal industries.....	612	162	328	120	2	126	110	149	164	60	3		
Paper and pulp mills.....	4,686	1,059	2,249	1,378	4	560	470	917	1,913	789	37		
Paper box factories.....	1,249	365	664	216	4	296	147	260	409	125	12		
Printing, publishing, and engraving.....	2,433	670	1,518	341	4	414	290	510	932	270	17		
Rubber factories.....	5,494	872	2,576	2,033	10	855	675	1,328	2,068	544	24		
Shoe factories.....	30,688	9,523	13,852	7,185	123	5	4,090	2,652	5,616	13,115	4,873	342	
Straw factories.....	1,370	677	506	184	3	69	50	140	492	562	67		
Tanneries.....	800	134	377	336	13	159	110	179	327	81	4		
Textile industries—													
Carpet mills.....	1,493	266	792	435	1	241	143	334	572	188	15		
Cotton mills.....	51,542	3,418	20,594	27,277	252	8,637	4,906	10,703	21,226	5,813	257		
Hemp and jute mills.....	1,425	92	204	119	1	195	110	373	660	85	2		
Knitting mills.....	6,092	977	3,279	2,425	11	1,052	772	1,778	2,524	539	27		
Rope and cordage factories.....	741	64	286	355	36	121	116	167	271	65	1		
Silk mills.....	3,394	485	1,750	1,155	4	702	414	819	1,209	241	9		
Textile dyeing, finishing, and printing mills.....	1,490	350	801	329	10	302	206	369	487	114	12		
Woolen and worsted mills.....	22,193	2,414	9,486	10,280	13	3,547	2,044	4,248	9,663	2,567	124		
Other textile industries.....	5,361	886	2,659	1,797	39	1,082	582	1,111	1,960	596	30		
Other industries.....	10,975	2,631	5,581	2,628	134	2,433	1,346	2,394	3,625	1,091	86		
Tailoresses.....	1,489	126	370	975	17	43	87	206	653	439	61		
All other occupations.....	1,637	621	629	475	12	109	112	343	775	264	34		
Transportation.....	10,549	3,548	6,268	685	47	612	1,405	4,233	3,995	288	16		
Telegraph operators.....	696	269	356	70	1	23	98	246	262	60	7		
Telephone operators.....	9,837	3,142	5,773	465	6	575	1,292	3,930	3,464	124	2		
All other occupations.....	466	137	139	150	40	14	15	57	269	104	7		
Trade.....	32,888	10,411	14,842	7,509	124	2,988	2,857	6,618	14,703	5,291	431		
Clerks in stores <sup>1</sup> .....	7,334	2,486	3,551	1,273	23	1,010	941	1,860	2,819	664	40		
Real estate and insurance agents and officials.....	479	254	145	76	4	7	53	18	211	178	30		
Retail dealers <sup>2</sup> .....	3,761	941	973	1,827	20	4	46	206	1,795	1,512	198		
Saleswomen (stores).....	19,271	6,030	9,359	3,833	48	1,762	1,733	4,185	8,996	2,485	110		
All other occupations.....	2,043	700	814	500	29	212	130	314	882	452	53		
Public service (not elsewhere classified) (all occupations).....	544	299	189	52	3	2	7	53	273	193	16		
Professional service.....	48,137	24,714	16,441	6,760	215	388	1,427	10,772	25,285	9,464	801		
Actors and showmen.....	415	197	160	55	3	20	34	106	226	28	1		
Artists, sculptors, and teachers of art.....	1,024	652	273	95	4	30	36	198	442	269	49		
Authors, editors, and reporters.....	457	320	93	43	1	7	55	207	151	37			
College presidents and professors <sup>3</sup> .....	511	388	88	34	1	57	305	142	7				
Designers and draftsmen.....	472	215	180	74	3	26	143	237	62	4			
Healers (except osteopaths and physicians and surgeons)	429	238	73	113	5	1	7	147	241	33			
Keepers of charitable and penal institutions.....	378	166	93	118	1	23	186	157	12				
Librarians.....	1,098	820	244	34	1	32	157	551	310	48			
Musicians and teachers of music.....	4,092	2,312	1,447	281	50	52	158	737	2,220	846	79		
Photographers.....	370	174	134	60	2	24	23	80	177	63	3		
Physicians and surgeons.....	530	307	129	92	2	18	211	251	50				
Religious, charity, and welfare workers.....	1,979	964	511	485	19	7	23	226	1,139	538	46		
Teachers (athletics, dancing, etc.).....	386	246	110	28	2	5	14	131	185	45	6		
Teachers (school).....	24,235	12,975	9,070	2,133	56	45	345	5,210	13,295	5,031	309		
Trained nurses.....	9,506	3,495	3,102	2,894	22	37	583	3,137	4,766	924	59		
All other occupations.....	2,255	1,245	734	231	44	168	145	487	991	406	58		

<sup>1</sup> Many of the "Clerks in stores" probably are "Saleswomen."<sup>2</sup> Includes, also, managers and superintendents of retail stores.<sup>3</sup> Probably includes some teachers in schools below collegiate rank.



## COMPOSITION AND CHARACTERISTICS.

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TABLE 25.—TOTAL MALES AND FEMALES 10 YEARS OF AGE AND OVER ENGAGED IN EACH SELECTED OCCUPATION, CLASSIFIED BY COLOR OR RACE, NATIVITY, AND PARENTAGE, AND AGE PERIODS, FOR THE STATE: 1920.—Con.

SEX AND OCCUPATION.	Total.	COLOR OR RACE, NATIVITY, AND PARENTAGE.					AGE PERIODS.					
		Native white.		Foreign-born white.	Negro.	Ind., Chi., Jap., and all other.	10 to 17 years.	18 and 19 years.	20 to 24 years.	25 to 44 years (in- cludes age un- known).	45 to 64 years.	65 years and over.
		Native parent- age.	Foreign or mixed parent- age.									
<b>FEMALES—Continued.</b>												
Domestic and personal service.....	94,766	21,670	19,946	47,068	6,018	64	2,400	2,409	9,648	42,721	32,062	5,526
Barbers, hairdressers, and manicurists.....	1,524	525	540	336	122	1	21	44	208	911	320	20
Boarding and lodging house keepers.....	5,692	1,741	1,066	2,748	135	2	.....	7	66	1,901	3,103	615
Charwomen and cleaners.....	1,431	151	304	890	86	.....	5	9	11	611	721	74
Elevator tenders.....	505	121	122	88	174	.....	12	54	123	271	40	5
Housekeepers and stewardesses.....	15,209	5,576	3,677	5,653	298	5	.....	149	596	4,771	7,629	2,064
Janitors and sextons.....	499	95	150	185	69	.....	7	3	14	181	260	34
Laundresses (not in laundry).....	4,485	595	662	2,183	1,030	15	35	41	191	1,939	1,996	283
Laundry operatives.....	3,784	771	1,420	1,310	278	5	314	187	505	1,770	931	77
Nurses (not trained).....	8,696	3,085	2,269	3,265	80	6	.....	142	929	4,078	3,080	487
Restaurant, café, and lunch room keepers.....	483	191	102	174	14	2	.....	4	32	242	197	8
Servants.....	44,651	6,953	7,506	26,671	3,493	28	1,695	1,405	5,416	21,464	12,988	1,803
Waitresses.....	7,280	1,693	2,017	3,358	222	.....	302	355	1,530	4,362	709	32
All other occupations.....	517	172	121	207	17	.....	9	9	27	220	228	24
Clerical occupations.....	95,219	37,718	48,717	8,566	211	7	6,477	13,904	31,923	37,174	5,460	281
Accountants and auditors.....	950	454	415	87	.....	.....	.....	93	274	487	94	8
Agents.....	387	212	131	44	.....	.....	5	12	54	204	97	15
Bookkeepers and cashiers.....	20,286	10,869	15,092	3,261	59	5	1,455	3,528	8,716	13,172	2,322	93
Canvassers and collectors.....	358	165	124	67	2	.....	8	6	33	183	102	26
Clerks (except clerks in stores).....	30,803	13,341	14,633	2,762	67	.....	2,546	4,288	9,832	11,906	2,111	120
Messenger, bundle, and office girls <sup>1</sup> .....	708	189	405	98	16	.....	522	79	53	42	11	1
Stenographers and typists.....	32,721	12,488	17,917	2,247	67	2	1,941	5,898	12,061	11,180	723	18

<sup>1</sup> Except telegraph messengers.

TABLE 26.—WOMEN 15 YEARS OF AGE AND OVER IN EACH PRINCIPAL CLASS OF THE POPULATION ENGAGED IN GAINFUL OCCUPATIONS, CLASSIFIED BY MARITAL CONDITION, WITH A DISTRIBUTION OF THE MARRIED BY AGE PERIODS, FOR THE STATE: 1920.

CLASS OF POPULATION.	Aggregate.	MARRIED.						Single, widowed, divorced, and unknown.
		Total.	15 to 19 years.	20 to 24 years.	25 to 34 years.	35 to 44 years.	45 years and over. <sup>1</sup>	
All classes.....	498,258	96,496	2,074	12,721	32,971	27,159	21,571	401,782
Native white—Native parentage.....	140,195	24,173	498	2,916	7,465	6,655	6,639	116,022
Native white—Foreign or mixed parentage.....	199,016	23,522	821	4,232	8,718	5,601	4,150	175,494
Foreign-born white.....	150,808	45,935	728	5,244	15,805	13,087	10,176	104,873
Negro.....	8,133	2,831	60	327	975	904	565	5,302
Indian.....	74	24	1	1	4	8	10	50
Chinese, Japanese, and all other.....	32	11	1	1	4	4	1	21

<sup>1</sup> Includes age unknown.



# AGRICULTURE—MASSACHUSETTS.

## INTRODUCTION.

In the following pages are presented all of the published results of the 1920 census of agriculture for this state and its counties, except certain detailed tabulations for the state which appear in Volume V of the Fourteenth Census Reports and a few minor items which have been published in special bulletins. The statistics of farms and farm property, including live stock, relate to January 1, 1920; those of live-stock

products, crops, and farm expenditures are for the calendar year 1919. In order to show the present tendency in agriculture, comparative figures for the census of 1910 are given throughout; and to show the general trend of the agricultural industry over a considerable period of time, all general farm information available is presented for the different censuses since 1850.

## FARMS AND FARM PROPERTY.

TABLE 1.—SUMMARY: 1920 AND 1910.

ITEM.	1920 (January 1)	1910 (April 15)	INCREASE, <sup>1</sup>	
			Amount.	Per cent.
Population, total.....	3,852,356	3,366,416	485,940	14.4
Rural <sup>2</sup> .....	202,108	241,049	-38,941	-16.2
Urban.....	3,650,248	3,125,367	524,881	16.8
Per cent rural.....	5.2	7.2		
Number of farms.....	32,001	36,917	-4,916	-13.3
Approximate land area of the state..... acres..	5,144,960	5,144,960		
All land in farms..... acres..	2,494,477	2,875,941	-381,464	-13.3
Improved land in farms..... acres..	908,834	1,164,501	-255,667	-22.0
Woodland in farms..... acres..	1,030,386	1,064,553	-34,167	-3.2
Other unimproved land in farms..... acres..	555,257	646,887	-91,630	-14.2
Per cent of land area in farms.....	48.5	55.9		
Per cent of farm land improved.....	36.4	40.5		
Average acreage per farm.....	77.9	77.9		
Average improved acreage per farm.....	28.4	31.5	-3.1	-9.8
Value of all farm property.....	\$300,471,743	\$226,474,025	\$73,997,718	32.7
Land and buildings.....	247,587,831	194,168,765	53,419,066	27.5
Land alone.....	127,653,607	105,532,616	22,120,991	21.0
Buildings.....	119,934,224	88,636,149	31,298,075	35.3
Implements and machinery.....	19,359,755	11,563,894	7,795,861	67.4
Live stock.....	33,524,157	20,741,366	12,782,791	61.6
Average value per farm:				
All farm property.....	9,389	6,135	3,254	53.0
Land and buildings.....	7,737	5,260	2,477	47.1
Land alone.....	3,989	2,859	1,130	39.5
Buildings.....	3,748	2,401	1,347	56.1
Implements and machinery.....	605	313	292	93.3
Live stock.....	1,048	562	486	86.5
Average value per acre of land in farms:				
All farm property.....	120.45	78.75	41.70	53.0
Land and buildings.....	99.25	67.51	31.74	47.0
Land alone.....	51.17	36.69	14.48	39.5
Buildings.....	43.08	30.82	17.26	56.0
Implements and machinery.....	7.76	4.02	3.74	93.0
Live stock.....	13.44	7.21	6.23	86.4

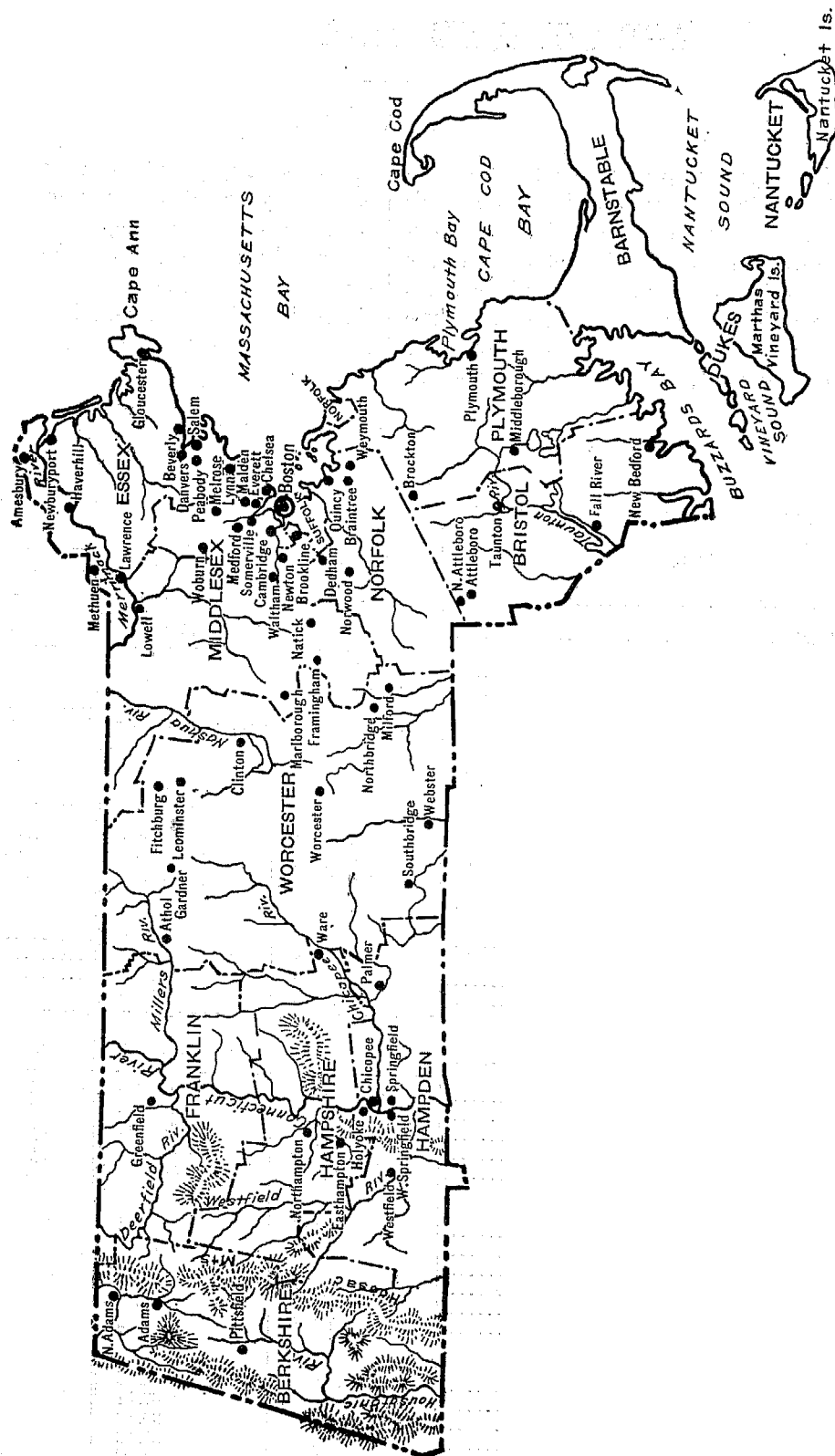
<sup>1</sup> A minus sign (-) denotes decrease.

<sup>2</sup> Population residing outside of incorporated places or towns having 2,500 inhabitants or over. The rate of increase (or decrease) in the rural population between the two censuses is affected somewhat by the fact that certain places classified as rural in 1910 had become urban by 1920. The population in 1910 of the territory classified as rural in 1920 was 205,738. For this territory, the population shows a decrease between 1910 and 1920 amounting to 1.8 per cent, which percentage indicates the rate of decline in the rural population, leaving out of consideration the changes in classification of territory.



# MASSACHUSETTS

COUNTIES, PRINCIPAL CITIES, RIVERS, AND MOUNTAINS.





EXPLANATION OF TERMS.

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 domestic animals, poultry, 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. 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 1919, or required for its agricultural operations the continuous services of at least one person.

**Farmer.**—A "farmer" or "farm operator," according to the census definition, is a person who directs the operation 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, managers, and tenants.

**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 "full owners" being then used for those owning all their land.

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

**Farm tenants** are farmers who, as tenants, renters, or croppers, operate hired land only. They were reported in 1920 in five classes: (1) Share tenants—those who pay a certain share of the products, as one-half, one-third, or one-quarter, for the use of the farm but furnish their own farm equipment and animals; (2) croppers—share tenants who do not furnish their work animals; (3) share-cash tenants—those who pay a share of the products for part of the land rented by them and cash for part; (4) cash tenants—those who pay a cash rental, as \$7 per acre of crop land or \$500 for the use of the whole farm; (5) standing renters—those who pay a stated amount of farm products for the use of the farm, as 3 bales of cotton or 500 bushels of corn. In some cases the character of the tenancy was not ascertained by the enumerator; such tenants are designated "unspecified."

**Farm land.**—Farm land is divided into (1) improved land, (2) woodland, and (3) other unimproved land.

**Improved land** includes all land regularly tilled or mowed, land in pasture which has been cleared or tilled, 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.

NUMBER OF FARMS, ACREAGE, AND VALUE.

TABLE 2.—NUMBER OF FARMS AND FARM ACREAGE: 1850 TO 1920.

CENSUS YEAR.	FARMS.		LAND IN FARMS.				Per cent of land area in farms.	Per cent of farm land im- proved.
	Number.	Per cent of in- crease. <sup>1</sup>	All land.		Improved land.			
			Acres.	Per cent of in- crease. <sup>1</sup>	Acres.	Per cent of in- crease. <sup>1</sup>		
1920 .....	32,001	-13.3	2,494,477	-13.3	908,834	-22.0	48.5	36.4
1910 .....	36,917	-2.1	2,875,941	-8.6	1,164,601	-9.9	55.9	40.5
1900 .....	37,715	9.7	3,147,064	5.0	1,292,132	-22.0	61.2	41.1
1890 .....	34,374	-10.5	2,998,282	-10.7	1,657,024	-22.1	58.3	55.3
1880 .....	38,406	44.0	3,359,079	23.0	2,128,311	22.6	65.3	63.4
1870 .....	26,500	-25.0	2,730,283	-18.2	1,736,221	-19.5	53.1	63.6
1860 .....	35,601	4.5	3,338,724	-0.5	2,155,512	1.0	64.0	64.6
1850 .....	34,069	.....	3,356,012	.....	2,133,436	.....	65.2	63.6

<sup>1</sup> A minus sign (—) denotes decrease.

TABLE 3.—VALUE OF FARM PROPERTY: 1850 TO 1920.

CENSUS YEAR.	ALL FARM PROPERTY.		LAND AND BUILDINGS.		IMPLEMENTS AND MACHINERY.		LIVE STOCK.	
	Value.	Per cent of increase. <sup>1</sup>	Value.	Per cent of increase. <sup>1</sup>	Value.	Per cent of increase.	Value.	Per cent of increase. <sup>1</sup>
1920.....	\$300,471,743	32.7	\$247,587,831	27.5	\$19,359,755	67.4	\$33,524,167	61.6
1910.....	226,474,025	24.0	194,168,765	22.9	11,563,894	31.0	20,741,366	31.3
1900.....	182,646,704	23.7	168,019,200	23.9	8,828,950	48.7	15,798,464	11.3
1890.....	147,677,402	-10.1	127,538,284	-12.8	5,688,940	15.7	14,200,178	9.6
1880.....	164,288,958	48.3	146,197,415	57.0	5,134,537	28.3	12,957,004	-5.0
1870.....	110,786,313	-20.8	93,146,227	-24.4	4,000,703	2.7	13,639,383	7.1
1860.....	139,888,690	14.7	123,255,948	13.0	3,894,998	21.4	12,737,744	32.0
1850.....	121,933,641	.....	100,076,347	.....	3,209,584	.....	9,647,710	.....

<sup>1</sup> A minus sign (—) denotes decrease.

<sup>2</sup> Computed gold values, being 80 per cent of the currency values reported.

TABLE 4.—AVERAGE ACREAGE AND AVERAGE VALUE PER FARM: 1850 TO 1920.

[Averages are based on "all farms" in the state.]

CENSUS YEAR.	AVERAGE ACREAGE PER FARM.		AVERAGE VALUE PER FARM.			
	All land.	Improved land.	All farm property.	Land and buildings.	Implements and machinery.	Live stock.
1920.....	77.9	28.4	\$9,389	\$7,787	\$605	\$1,048
1910.....	77.9	31.5	6,135	5,280	313	562
1900.....	83.4	34.3	4,843	4,190	234	419
1890.....	87.2	48.2	4,206	3,710	173	413
1880.....	87.5	55.4	4,278	3,807	134	337
1870.....	103.0	65.5	4,181	3,515	151	515
1860.....	93.8	60.5	3,929	3,492	109	358
1850.....	98.5	62.6	3,579	3,202	94	283

<sup>1</sup> Computed gold values, being 80 per cent of the currency values reported.

TABLE 5.—AVERAGE VALUE PER ACRE: 1850 TO 1920.

[Averages are based on "all land in farms" in the state.]

CENSUS YEAR.	All farm property.	Land and buildings.	Land alone.	Buildings alone.	Implements and machinery.	Live stock.
1920.....	\$120.45	\$99.25	\$51.17	\$48.08	\$7.76	\$13.44
1910.....	78.75	67.51	36.69	30.82	4.02	7.21
1900.....	58.04	50.21	27.62	22.59	2.81	5.02
1890.....	49.25	42.54	.....	.....	1.98	4.74
1880.....	48.91	43.52	.....	.....	1.53	3.86
1870.....	40.58	34.12	.....	.....	1.47	5.00
1860.....	41.90	36.92	.....	.....	1.17	3.82
1850.....	36.33	32.50	.....	.....	0.96	2.37

<sup>1</sup> Computed gold values, being 80 per cent of the currency values reported.



## FARMS BY SIZE.

TABLE 6.—NUMBER OF FARMS, BY SIZE: 1920 AND 1910.

SIZE GROUP.	NUMBER OF FARMS.		INCREASE. <sup>1</sup>		PER CENT OF TOTAL.	
	1920	1910	Number.	Per cent.	1920	1910
Total.....	32,001	36,917	-4,916	-13.3	100.0	100.0
Under 20 acres.....	9,505	10,006	-1,101	-10.4	29.7	28.7
Under 3 acres.....	872	833	39	4.7	2.7	2.3
3 to 9 acres.....	4,388	4,817	-429	-8.9	13.7	13.0
10 to 19 acres.....	4,245	4,956	-711	-14.3	13.3	13.4
20 to 49 acres.....	7,532	8,890	-1,358	-15.3	23.5	24.1
50 to 99 acres.....	6,834	7,981	-1,147	-14.4	21.4	21.6
100 to 174 acres.....	4,888	5,703	-815	-14.3	15.3	15.4
175 to 499 acres.....	2,895	3,325	-430	-12.9	9.0	9.0
175 to 259 acres.....	1,840	2,147	-307	-14.3	5.7	5.8
260 to 499 acres.....	1,055	1,178	-123	-10.4	3.3	3.2
500 to 999 acres.....	265	319	-54	-16.9	0.8	0.9
1,000 acres and over.....	82	93	-11	.....	0.3	0.3

<sup>1</sup> A minus sign (-) denotes decrease. Per cent not shown when base is less than 100.

TABLE 7.—NUMBER OF FARMS AND PER CENT DISTRIBUTION, BY SIZE: 1880 TO 1920.

SIZE GROUP.	1920	1910	1900	1890	1880
Total number of farms.....	32,001	36,917	37,715	34,374	38,406
Under 10 acres.....	5,260	5,650	4,505	2,410	2,451
10 to 19 acres.....	4,245	4,956	4,324	3,621	3,865
20 to 49 acres.....	7,532	8,890	8,875	8,457	9,632
50 to 99 acres.....	6,834	7,981	8,910	8,934	10,687
100 to 499 acres.....	7,783	9,025	10,627	10,648	11,588
500 to 999 acres.....	265	319	339	256	243
1,000 acres and over.....	82	93	75	48	40
Per cent of all farms.....	100.0	100.0	100.0	100.0	100.0
Under 10 acres.....	16.4	15.3	12.1	7.0	6.4
10 to 19 acres.....	13.3	13.4	11.5	10.5	10.1
20 to 49 acres.....	23.5	24.1	23.5	24.6	25.1
50 to 99 acres.....	21.4	21.6	23.6	26.0	27.6
100 to 499 acres.....	24.3	24.5	28.2	31.0	30.2
500 to 999 acres.....	0.8	0.9	0.9	0.7	0.6
1,000 acres and over.....	0.3	0.3	0.2	0.1	0.1

TABLE 8.—FARM ACREAGE AND VALUE, BY SIZE OF FARM: 1920 AND 1910.

SIZE GROUP (ACRES).	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1920	1910	1920	1910	1920	1910
Total.....	2,494,477	2,875,941	908,834	1,164,501	\$247,587,831	\$194,168,765
Under 20.....	84,533	96,041	59,044	69,889	47,229,906	39,272,556
20 to 49.....	242,466	287,509	124,838	156,902	45,327,151	36,065,199
50 to 99.....	474,580	554,699	202,486	252,447	50,631,464	40,939,114
100 to 174.....	618,820	721,710	227,593	290,707	44,074,543	34,863,149
175 to 499.....	739,872	840,139	226,702	278,531	42,451,799	32,098,128
500 to 999.....	188,420	197,218	38,719	47,817	9,549,210	6,375,095
1,000 and over.....	172,086	178,626	29,452	68,228	7,723,758	3,955,524

TABLE 9.—PER CENT OF FARM LAND IMPROVED, AND AVERAGE VALUES, BY SIZE OF FARM: 1920 AND 1910.

SIZE GROUP.	PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
			Per farm.		Per acre.	
	1920	1910	1920	1910	1920	1910
Total.....	36.4	40.5	\$7,737	\$5,260	\$99.25	\$67.51
Under 20 acres.....	69.8	72.8	4,969	3,703	552.72	408.91
20 to 49 acres.....	51.5	54.6	6,018	4,124	186.94	127.53
50 to 99 acres.....	42.7	45.5	7,409	5,130	106.69	73.80
100 to 174 acres.....	36.8	40.3	9,140	6,113	72.19	48.31
175 to 499 acres.....	30.9	33.2	14,664	9,654	57.87	38.21
500 to 999 acres.....	23.0	24.2	36,035	19,985	56.70	32.33
1,000 acres and over.....	17.1	38.2	94,192	42,533	44.88	22.14

## FARMS BY TENURE.

TABLE 10.—NUMBER OF FARMS, BY TENURE: 1920 AND 1910.

TENURE.	NUMBER OF FARMS.		INCREASE. <sup>1</sup>		PER CENT OF TOTAL.	
	1920	1910	Number.	Per cent.	1920	1910
Total.....	32,001	36,917	-4,916	-13.3	100.0	100.0
Owners.....	28,087	32,075	-3,988	-12.4	87.8	86.9
Owning entire farm.....	26,515	30,705	-4,190	-13.6	82.9	83.2
Hiring additional land.....	1,572	1,370	202	14.7	4.9	3.7
Managers.....	1,627	1,863	-236	-12.7	5.1	5.0
Tenants.....	2,287	2,979	-692	-23.2	7.1	8.1
Share tenants.....	330	214	116	54.2	1.0	0.6
Share-cash tenants.....	23	43	-20	.....	0.1	0.1
Cash tenants.....	1,766	2,115	-349	-16.5	5.5	5.7
Unspecified.....	168	607	-439	-72.3	0.5	1.6

<sup>1</sup> A minus sign (-) denotes decrease. Per cent not shown when base is less than 100.

TABLE 11.—NUMBER OF FARMS AND PER CENT DISTRIBUTION, BY TENURE: 1880 TO 1920.

TENURE.	1920	1910	1900	1890	1880
Total number of farms.....	32,001	36,917	37,715	34,374	38,406
Farms operated by owners.....	28,087	32,075	32,581	31,177	35,286
Owning entire farm.....	26,515	30,705	31,002	( <sup>2</sup> )	( <sup>2</sup> )
Hiring additional land.....	1,572	1,370	1,579	( <sup>2</sup> )	( <sup>2</sup> )
Farms operated by managers.....	1,627	1,863	1,531	( <sup>2</sup> )	( <sup>2</sup> )
Farms operated by tenants.....	2,287	2,979	3,603	3,197	3,140
Share tenants.....	330	214	482	893	848
Share-cash tenants.....	23	43	.....	.....	.....
Cash tenants.....	1,766	2,115	3,121	2,304	2,292
Unspecified.....	168	607	.....	.....	.....
Per cent of all farms.....	100.0	100.0	100.0	100.0	100.0
Operated by owners.....	87.8	86.9	86.4	90.7	91.8
Owning entire farm.....	82.9	83.2	82.2	( <sup>2</sup> )	( <sup>2</sup> )
Hiring additional land.....	4.9	3.7	4.2	( <sup>2</sup> )	( <sup>2</sup> )
Operated by managers.....	5.1	5.0	4.1	( <sup>2</sup> )	( <sup>2</sup> )
Operated by tenants.....	7.1	8.1	9.6	9.3	8.2
Share and share-cash.....	1.1	0.7	1.3	2.6	2.2
Cash and unspecified.....	6.0	7.4	8.3	6.7	6.0

<sup>1</sup> Includes farms operated by managers.

<sup>2</sup> Not reported separately.

<sup>3</sup> Included with farms operated by owners.

TABLE 12.—FARM ACREAGE AND VALUE, BY TENURE: 1920 AND 1910.

TENURE.	ALL LAND IN FARMS (ACRES).		IMPROVED LAND IN FARMS (ACRES).		VALUE OF LAND AND BUILDINGS.	
	1920	1910	1920	1910	1920	1910
Total.....	2,494,477	2,875,941	908,834	1,164,501	\$247,587,831	\$194,168,765
Owners.....	2,021,920	2,343,103	744,523	931,621	182,098,530	144,241,898
Managers.....	813,095	830,914	104,650	150,206	50,988,024	36,745,990
Tenants.....	159,462	201,924	59,661	82,674	14,501,277	13,181,377

TABLE 13.—PER CENT DISTRIBUTION OF FARMS AND OF FARM ACREAGE AND VALUE, BY TENURE: 1920 AND 1910.

TENURE.	NUMBER OF FARMS.		ALL LAND IN FARMS.		IMPROVED LAND IN FARMS.		VALUE OF LAND AND BUILDINGS.	
	1920	1910	1920	1910	1920	1910	1920	1910
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Owners.....	87.8	86.9	81.1	81.5	81.0	80.0	73.5	74.3
Managers.....	5.1	5.0	12.6	11.5	11.5	12.9	20.6	18.0
Tenants.....	7.1	8.1	6.4	7.0	6.6	7.1	5.9	6.8



TABLE 14.—AVERAGE ACREAGE, PER CENT OF FARM LAND IMPROVED, AND AVERAGE VALUES, BY TENURE: 1920 AND 1910.

TENURE.	AVERAGE ACREAGE PER FARM.				PER CENT OF FARM LAND IMPROVED.		AVERAGE VALUE OF LAND AND BUILDINGS.			
	All land.		Improved land.				Per farm.		Per acre.	
	1920	1910	1920	1910	1920	1910	1920	1910	1920	1910
Total.....	77.9	77.9	28.4	31.5	36.4	40.5	\$7,737	\$5,260	\$99.25	\$67.51
Owners.....	72.0	73.1	26.5	29.0	36.8	39.8	6,483	4,497	90.08	61.56
Managers.....	192.4	177.6	64.3	80.6	33.4	45.4	31,339	19,724	162.85	111.04
Tenants.....	69.7	67.8	26.1	27.8	37.4	40.9	6,341	4,425	90.94	65.28

FARMS BY SEX, RACE, AND NATIVITY OF FARMER.

TABLE 15.—NUMBER, ACREAGE, AND VALUE OF FARMS, CLASSIFIED BY SEX AND TENURE OF FARMER: 1920.

SEX AND TENURE.	Number of farms.	All land in farms (acres).	Im-proved land in farms (acres).	Value of land and buildings.	AVERAGE PER FARM.		
					All land (acres).	Im-proved land (acres).	Value of land and buildings.
Total.....	32,001	2,494,477	908,834	\$247,587,831	77.9	28.4	\$7,737
Male.....	30,020	2,376,233	864,452	235,500,822	79.1	28.8	7,843
Female.....	1,975	118,244	44,382	12,087,009	59.0	22.5	6,120
Owners.....	28,087	2,021,920	744,523	182,098,530	72.0	26.5	6,483
Male.....	26,205	1,909,751	702,229	170,560,646	72.0	26.8	6,509
Female.....	1,882	112,169	42,294	11,537,884	59.6	22.5	6,131
Managers.....	1,627	313,095	104,650	50,988,024	192.4	64.3	31,339
Male.....	1,618	311,730	104,263	50,848,874	192.7	64.4	31,427
Female.....	9	1,365	387	139,150	151.7	43.0	15,461
Tenants.....	2,287	159,462	59,661	14,501,277	69.7	26.1	6,341
Male.....	2,203	154,752	57,960	14,061,302	70.2	26.3	6,396
Female.....	84	4,710	1,701	409,975	56.1	20.3	4,881

TABLE 16.—NUMBER, ACREAGE, AND VALUE OF FARMS, CLASSIFIED BY NATIVITY OF WHITE FARMERS AND BY RACE OF COLORED FARMERS: 1920 AND 1910.

COLOR AND NATIVITY OR RACE.	NUMBER OF FARMS.		LAND IN FARMS, 1920 (ACRES).		Value of land and buildings, 1920
	1920	1910	Total.	Im-proved.	
All farmers.....	32,001	36,917	2,494,477	908,834	\$247,587,831
White farmers.....	31,880	36,793	2,488,887	906,399	247,214,036
Native <sup>1</sup> .....	22,950	28,431	1,998,970	701,343	182,610,375
Foreign-born.....	8,930	8,362	510,917	205,056	64,603,661
Country of birth:					
Austria.....	352	255	19,951	7,642	1,602,159
Canada.....	2,076	2,277	124,652	52,512	13,878,557
England.....	740	994	49,066	15,967	9,881,427
Finland.....	434	(2)	28,262	8,501	1,462,740
Germany.....	380	598	25,076	8,916	2,394,730
Ireland.....	796	1,572	46,808	20,529	8,336,621
Italy.....	687	195	30,000	13,664	4,169,600
Poland.....	557	203	30,875	11,203	2,587,330
Portugal.....	368	(2)	15,617	6,290	1,862,600
Russia.....	628	421	42,293	15,427	3,458,323
Scotland.....	221	231	17,748	7,571	4,425,050
Sweden.....	577	520	30,750	11,494	3,012,395
Other countries.....	1,114	1,060	61,424	25,250	6,931,479
Colored farmers.....	121	124	5,590	2,435	373,795
Negro.....	103	103	4,815	2,270	345,800
Indian.....	18	21	775	165	27,995

<sup>1</sup> Includes farmers with country of birth not reported, as follows: For 1920, 533; for 1910, 321.  
<sup>2</sup> Included with "other countries."

TABLE 17.—NUMBER OF FARMERS, CLASSIFIED BY TENURE, COLOR, AND NATIVITY: 1920 AND 1910.

TENURE.	ALL FARMERS.		NATIVE WHITE. <sup>1</sup>		FOREIGN-BORN WHITE.		COLORED.	
	1920	1910	1920	1910	1920	1910	1920	1910
Total.....	32,001	36,917	22,950	28,431	8,930	8,362	121	124
Owners.....	28,087	32,075	20,157	24,867	7,823	7,109	107	109
Managers.....	1,627	1,863	1,191	1,401	429	458	7	4
Tenants.....	2,287	2,979	1,602	2,173	678	795	7	11

<sup>1</sup> Includes farmers with country of birth not reported.

FARM MORTGAGES.

TABLE 18.—MORTGAGED FARMS: 1920 AND 1910.

(Owned farms only; includes all farms owned in whole or in part by the operator.)

CLASS.	NUMBER OF OWNED FARMS.		INCREASE. <sup>1</sup>		PER CENT OF TOTAL.	
	1920	1910	Number.	Per cent.		
Total.....	28,087	32,075	-3,988	-12.4	100.0	100.0
Free from mortgage.....	14,055	18,798	-4,743	-25.1	50.0	58.5
Mortgaged.....	12,032	13,014	-382	-2.9	45.0	40.6
Unknown.....	1,400	293	1,107	377.8	5.0	0.9

<sup>1</sup> A minus sign (-) denotes decrease. The comparative figures shown for farms free from mortgage and mortgaged are affected somewhat by the fact that more farms were tabulated as "unknown" in 1920 than in 1910.

TABLE 19.—MORTGAGED FARMS (OR FARM HOMES): 1890 TO 1920.

CLASS.	OWNED FARMS.		OWNED FARM HOMES.		PER CENT OF TOTAL.			
	1920	1910	1900	1890	1920	1910	1900	1890
Total.....	28,087	32,075	31,587	29,370	100.0	100.0	100.0	100.0
Free from mortgage.....	14,055	18,798	18,971	20,425	50.0	58.5	60.1	69.5
Mortgaged.....	12,032	13,014	11,941	8,945	45.0	40.6	37.8	30.5
Unknown.....	1,400	293	675	.....	5.0	0.9	2.1	.....

TABLE 20.—MORTGAGE DEBT: 1920 AND 1910.

ITEM.	OWNED FARMS MORTGAGED. <sup>1</sup>		INCREASE. <sup>2</sup>	
	1920	1910	Amount.	Per cent.
Number of farms reporting amount of debt.....	11,663	12,030	-367	-3.1
Value of land and buildings.....	\$70,745,237	\$49,742,396	\$21,002,841	42.2
Amount of mortgage debt.....	\$23,412,188	\$16,371,484	\$7,040,704	43.0
Ratio of debt to value, per cent.....	33.1	32.9	.....	.....
Average rate of interest paid, per cent.....	5.7	.....	.....	.....
Average value per farm.....	\$6,066	\$4,135	\$1,931	46.7
Average debt per farm.....	\$2,007	\$1,361	\$646	47.5
Average equity per farm.....	\$4,058	\$2,774	\$1,284	46.8

<sup>1</sup> Includes only farms consisting wholly of owned land and reporting amount of debt. In considering the comparative figures it should be borne in mind that the mortgage debt may have been more completely reported at one census than at the other.

<sup>2</sup> A minus sign (-) denotes decrease.

FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED.

TABLE 21.—FARMS REPORTING EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919 AND 1909.

ITEM.	NUMBER OF FARMS REPORTING.		INCREASE. <sup>1</sup>		PER CENT OF ALL FARMS.	
	1919	1909	Number.	Per cent.		
Labor.....	18,322	26,753	-8,436	-31.5	57.8	72.5
Fertilizer.....	16,902	21,689	-4,687	-21.7	53.1	58.8
Feed.....	27,853	30,500	-2,647	-8.7	87.0	82.6

<sup>1</sup> A minus sign (-) denotes decrease.

TABLE 22.—AMOUNT OF EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919 AND 1909.

ITEM.	AMOUNT EXPENDED.		INCREASE.	
	1919	1909	Amount.	Per cent.
Labor, total.....	\$16,577,123	\$12,101,959	\$4,475,164	37.0
Amount in cash.....	13,929,305	9,906,209	4,023,096	40.6
Value of rent and board furnished.....	2,647,818	2,195,750	452,068	20.6
Fertilizer.....	3,906,733	1,965,682	1,941,051	98.7
Feed.....	20,272,851	10,878,178	9,394,673	86.4



## LIVE STOCK ON FARMS AND ELSEWHERE.

(DOMESTIC ANIMALS, POULTRY, AND BEES.)

Domestic animals: 1920 and 1910.—The census of 1920 was taken as of January 1 and that of 1910 as of April 15. Since a great many domestic animals are born during the period between January 1 and April 15 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 fully comparable. In addition to the change in the date of enumeration, there have been certain changes in the age and sex classifications. The 1910 figures presented in the following tables are therefore restricted to those classes of domestic animals which are least affected by these changes and for which the figures are fairly comparable with the 1920 returns.

Dairy cows: 1920 and 1910.—In 1910 the census called for "cows and heifers kept for milk" and "cows and heifers *not* kept for milk." The instructions read: "Report as cows kept for milk those whose milk is used in some form for human food. Cows milked for three months during the year should be reported as *kept for milk*, although a part of the year they run with their calves."

In 1920 the census called for "dairy cattle" and "beef cattle." Dairy cattle were defined as those "kept mainly for milk production," and the following instructions were given the enumerators: "Classify all cattle as beef cattle or as dairy cattle according to the principal purpose for which they are kept." It is believed that under this rule the fully established dairy and beef breeds have been properly reported, with few errors, and that cattle of the dual-purpose breeds or of no definite breeding have been placed in one class or the other, according to the principal purpose for which they are kept.

In states where cattle are raised extensively for beef production the result of this new classification will be to reduce materially the proportion of cows classified as dairy cows, and even in states having few strictly beef cattle the 1920 classification may be expected to give a somewhat smaller proportion of dairy cows than the 1910 classification.

In Massachusetts the number of "dairy cows," including heifers 1 year old and over, reported for January 1, 1920, was 173,844, as compared with 171,936 "cows kept for milk" reported for April 15, 1910. This represents an increase of 1,908, or 1.1 per cent. The number of "beef cows" reported for

January 1, 1920, was 5,850, as compared with 20,100 "cows not kept for milk" reported for April 15, 1910, representing a decrease of 14,250, or 70.9 per cent.

Farms reporting domestic animals: 1910.—Horses were reported by 28,173 farms in Massachusetts in 1910, mules by 155 farms, cattle by 27,532, sheep by 1,028, and swine by 11,005. In comparing these figures with the 1920 figures given in the table below, due allowance should be made for the fact that the total number of farms in Massachusetts decreased from 36,917 in 1910 to 32,001 in 1920.

TABLE 23.—DOMESTIC ANIMALS ON FARMS: 1920.

CLASS.	FARMS REPORTING.		ANIMALS.		
	Num-ber.	Per cent of all farms.	Num-ber.	Value.	Aver- age value.
Total.....	27,508	86.0	.....	\$30,512,291	.....
Horses, total.....	23,671	74.0	50,605	7,771,029	\$153.56
Colts under 1 year of age.....	629	2.0	1,111	125,138	115.34
Colts 1 year old and under 2 years.....	391	1.2	529	66,688	126.06
Mares 2 years old and over.....	10,140	31.7	14,980	2,177,663	145.37
Geldings 2 years old and over.....	18,346	57.3	33,461	5,255,936	157.08
Stallions 2 years old and over.....	366	1.1	524	142,604	272.15
Mules, total.....	177	0.6	332	44,251	133.29
Mule colts under 1 year of age.....	5	( <sup>1</sup> )	6	475	79.17
Mule colts 1 year old and under 2 years.....	11	( <sup>1</sup> )	16	2,125	132.81
Mules 2 years old and over.....	169	0.5	310	41,651	134.36
Asses and burros.....	40	0.1	52	4,270	82.12
Cattle, total.....	23,900	74.7	216,099	20,093,098	92.98
Beef cattle, total.....	2,185	6.8	10,089	760,228	75.35
Calves under 1 year of age.....	657	2.1	1,823	57,936	31.78
Heifers 1 year old and under 2 years.....	474	1.5	1,317	71,508	54.30
Cows and heifers 2 years old and over.....	1,039	3.2	4,533	414,216	91.38
Steers 1 year old and under 2 years.....	296	0.9	760	44,536	58.99
Steers 2 years old and over.....	448	1.4	1,242	137,575	110.77
Bulls 1 year old and over.....	325	1.0	414	34,157	82.50
Dairy cattle, total.....	23,224	72.6	206,010	19,332,870	93.64
Calves under 1 year of age.....	10,031	31.3	26,618	952,572	36.16
Heifers 1 year old and under 2 years.....	10,249	32.0	26,513	1,600,150	60.35
Cows and heifers 2 years old and over.....	22,551	70.5	147,331	15,093,976	108.56
Bulls 1 year old and over.....	4,331	14.2	5,548	776,172	139.90
Sheep, total.....	939	2.9	18,880	237,023	12.55
Lambs under 1 year of age.....	695	1.9	4,748	43,270	9.11
Ewes 1 year old and over.....	787	2.2	11,806	164,755	13.85
Rams 1 year old and over.....	460	1.4	692	17,703	25.58
Wethers 1 year old and over.....	74	0.2	1,544	11,295	7.32
Goats, total.....	271	0.8	1,296	23,506	18.14
Kids under 1 year of age, raised for fleeces.....	6	( <sup>1</sup> )	38	618	16.26
Goats 1 year old and over, raised for fleeces.....	15	( <sup>1</sup> )	149	2,680	17.99
All other goats.....	267	0.8	1,109	20,208	18.22
Swine, total.....	15,489	48.4	104,192	2,339,114	22.45
Pigs under 6 months old.....	3,561	26.8	53,757	604,367	11.24
Sows and gilts for breeding, 6 months old and over.....	4,509	14.1	17,742	696,939	39.28
Boars for breeding, 6 months old and over.....	1,457	4.6	2,042	106,707	52.26
All other hogs, 6 months old and over.....	7,739	24.2	30,651	931,101	30.38

<sup>1</sup> Less than one-tenth of 1 per cent.



TABLE 24.—POULTRY AND BEES ON FARMS: 1920 AND 1910.

ITEM.	FARMS REPORTING, 1920.		NUMBER REPORTED. <sup>1</sup>		Value, 1920	Average value, 1920
	Num-ber.	Per cent of all farms.	1920 (Jan. 1)	1910 (Apr. 15)		
Poultry, total.....	25,650	80.2	1,517,477	<sup>2</sup> 1,798,380	\$2,951,001	\$1.94
Chickens.....	25,425	79.5	1,455,193	1,709,934	2,823,802	1.94
Turkeys.....	747	2.3	4,808	2,645	24,858	5.17
Ducks.....	1,729	5.4	36,478	23,153	66,726	1.83
Geese.....	1,014	3.2	4,896	12,313	21,292	4.35
Guinea fowls.....	657	2.1	3,717	4,446	4,727	1.27
Pigeons.....	537	1.7	12,385	44,830	9,596	0.77
Hives of bees.....	1,341	4.2	6,573	7,464	60,865	9.26

<sup>1</sup> The numbers of the different classes of poultry are not strictly comparable for the two censuses, since a considerable number of fowls are killed between Jan. 1 and Apr. 15.

<sup>2</sup> Includes small numbers of peafowls and pheasants.

TABLE 25.—SELECTED CLASSES OF DOMESTIC ANIMALS ON FARMS: 1920 AND 1910.

CLASS.	NUMBER.		INCREASE. <sup>1</sup>	
	1920 (Jan. 1)	1910 (Apr. 15)	Num-ber.	Per cent.
<b>Horses:</b>				
Total, excluding spring colts reported for 1910.....	50,605	64,109	-13,504	-21.1
Colts under 1 year old on Jan. 1 of census year.....	1,111	948	163	17.2
Horses 1 year old and over on Jan. 1 of census year.....	49,494	63,161	-13,667	-21.6
<b>Mules:</b>				
Total, excluding spring colts reported for 1910.....	332	264	68	25.8
Mule colts under 1 year old on Jan. 1 of census year.....	6	5	1	.....
Mules 1 year old and over on Jan. 1 of census year.....	326	259	67	25.9
<b>Cattle:</b>				
Total, excluding spring calves reported for 1910.....	216,099	228,845	-10,746	-4.7
Calves under 1 year old on Jan. 1 of census year.....	28,441	20,421	-980	-3.3
Cows and heifers 1 year old and over on Jan. 1 of census year.....	179,604	192,036	-12,342	-6.4
Steers and bulls 1 year old and over on Jan. 1 of census year.....	7,964	5,388	2,576	47.8
<b>Sheep:</b>				
Total, excluding spring lambs reported for 1910.....	18,880	22,699	-3,819	-16.8

<sup>1</sup> A minus sign (—) denotes decrease. Per cent not shown when base is less than 100.

TABLE 26.—DOMESTIC ANIMALS NOT ON FARMS: 1920 AND 1910.

CLASS.	INCLOSURES REPORTING.		ANIMALS.			
			Number.		Increase. <sup>1</sup>	
	1920 (Jan. 1)	1910 (Apr. 15)	1920 (Jan. 1)	1910 (Apr. 15)	Num-ber.	Per cent.
Total.....	31,207	43,063	.....	.....	.....	.....
<b>Horses.....</b>	17,573	37,659	50,775	115,183	-64,411	-55.9
Horses 1 year old and over on Jan. 1 of census year.....	.....	.....	50,000	114,944	-64,944	-56.5
<b>Mules.....</b>	152	112	534	271	263	97.0
Mules 1 year old and over on Jan. 1 of census year.....	.....	.....	507	269	238	88.5
<b>Asses and burros.....</b>	61	26	79	36	43	.....
<b>Cattle.....</b>	10,440	9,802	21,500	19,896	1,604	8.1
Cattle 1 year old and over on Jan. 1 of census year.....	.....	.....	19,548	17,022	2,526	14.8
<b>Sheep.....</b>	126	92	972	4,329	-3,357	-77.5
Goats.....	575	359	1,016	643	373	58.0
Swine.....	12,954	3,571	51,498	12,010	39,488	328.8

<sup>1</sup> A minus sign (—) denotes decrease. Per cent not shown when base is less than 100.

TABLE 27.—TOTAL NUMBER OF DOMESTIC ANIMALS: 1920.

CLASS.	Total.	On farms.	Not on farms.
Horses.....	101,380	50,605	50,775
Horses 2 years old and over.....	98,060	48,965	49,095
Mules.....	806	332	534
Mules 2 years old and over.....	785	310	475
Asses and burros.....	131	52	79
Cattle.....	237,599	216,099	21,500
Beef cattle.....	12,127	10,089	2,038
Dairy cattle.....	225,472	206,010	19,462
Dairy cows.....	162,752	147,331	15,421
Sheep.....	19,852	18,880	972
Goats.....	2,312	1,296	1,016
Swine.....	155,690	104,192	51,498

# LIVE-STOCK PRODUCTS.

Farm value of live-stock products: 1919 and 1909.—The Thirteenth Census schedule called for the total value as well as the total quantity of all live-stock products, whether sold or consumed on the farm. The 1909 values are therefore based directly on the reported figures. But in the Fourteenth Census schedule the question as to value in the case of dairy products, eggs, and chickens was restricted to the amounts sold. The 1919 value of butter made on farms has been computed on the basis of the average value received per pound for butter sold; the values of eggs produced and chickens raised have been computed in a similar way. The values of cheese made on farms and of honey and wax produced have been computed on the basis of average values per pound secured through the Bureau of Crop Estimates of the Department of Agriculture. The method of obtaining these average values was the same as that used for securing average values for the important crops, which is described in a later paragraph.

Dairy products.—It is difficult to secure reports of the total quantity of milk produced during a given year, especially from farmers who keep cows chiefly to supply milk and butter for family use. Since such farmers usually keep no records, they are able to make only rough estimates of the milk production and frequently underestimate the quantity of milk produced for home use. Many farmers, too, either because they are unwilling to make any estimates or for other reasons, fail to report their milk production, even though they report butter or other dairy products as well as dairy cows.

For several decades past the Bureau of the Census has made estimates for such incomplete reports, where the farmer reported "cows kept for milk," but failed to report the amount of milk produced, these estimates being based on the average production per cow as shown by the complete reports. Since farmers with first-class dairy herds and up-to-date methods are more likely to make complete reports than those with cows of a lower grade, the estimates obtained in this way have probably been somewhat above the actual production. With the new basis of classification for dairy cows in



use for 1920, however, as already noted, the estimates should be more satisfactory than heretofore, since milk will be estimated only for cows kept mainly for milk production.

In the table which follows, both the actual reported quantity of milk produced and the estimated total are given. The latter includes, in addition to the milk reported, an estimate of the amount of milk produced on farms which reported dairy cows but failed to report milk. A certain quantity of milk, on the other hand, was reported from farms which reported no dairy cows. This is included in the total and may represent either milk produced by beef cows milked a part of the year on farms having no dairy cows or milk produced on farms which kept dairy cows some time during the year 1919, but had none on January 1, 1920. It may be safely assumed that the returns for butter and cheese made on farms and for milk, cream, butter fat, and butter sold, are much more nearly complete than in the case of milk produced. Hence no estimates have been made for these items.

TABLE 28.—DAIRY COWS ON FARMS, 1920; AND DAIRY PRODUCTS, 1919 AND 1909.

ITEM.	FARMS REPORTING.		Number or quantity.	Unit.	Value.
	Num-ber.	Per cent of all farms.			
Dairy cows on farms Jan. 1, 1920, total.....	22,551	70.5	147,331	Head.....	
On farms reporting milk produced.....	19,837	62.0	132,129	Head.....	
On farms not reporting milk produced.....	2,714	8.5	15,202	Head.....	
Average production of milk per dairy cow, 1919 <sup>1</sup> .....			506	Gals.....	
Specified dairy products:					
Milk, as reported.....1919.....			68,624,097	Gals.....	
.....1909.....			86,304,347	Gals.....	
Increase, 1909-1919 <sup>2</sup> .....			-17,680,250	Gals.....	
Per cent of increase <sup>2</sup> .....			-20.5		
Total production of milk, including estimates.....1919.....			76,316,309	Gals.....	
Butter made.....1919.....	7,361	23.0	2,019,231	Lbs.....	\$1,261,218
.....1909.....	9,035	24.5	3,364,516	Lbs.....	\$1,041,482
Cheese made.....1919.....	314	1.0	60,796	Lbs.....	\$23,709
.....1909.....	80	0.2	45,763	Lbs.....	\$5,811
Milk sold.....1919.....	14,681	45.9	55,676,858	Gals.....	\$22,698,929
.....1909.....	15,703	42.5	64,496,692	Gals.....	\$13,297,634
Cream sold.....1919.....	991	3.1	310,918	Gals.....	\$472,840
.....1909.....	905	2.5	501,870	Gals.....	\$475,824
Butter fat sold.....1919.....	629	2.0	506,861	Lbs.....	\$308,826
.....1909.....	1,123	3.0	1,148,019	Lbs.....	\$367,523
Butter sold.....1919.....	3,358	10.5	1,282,887	Lbs.....	\$799,048
.....1909.....	4,557	12.3	2,220,311	Lbs.....	\$696,336
Value of milk, cream, and butter fat sold, and of butter and cheese made <sup>3</sup> .....1919.....					\$24,765,522
.....1909.....					\$15,187,774
Increase, 1909-1919.....					\$9,577,748
Per cent of increase.....					63.1
Receipts from sale of dairy products <sup>4</sup> .....1919.....					\$24,279,643
.....1909.....					\$14,840,927
Increase, 1909-1919.....					\$9,438,716
Per cent of increase.....					63.6

<sup>1</sup> Based on the 1919 milk production as reported for dairy cows, and the number of dairy cows on hand Jan. 1, 1920.

<sup>2</sup> A minus sign (—) denotes decrease.

<sup>3</sup> This item represents the total farm value of dairy products, excluding milk and cream consumed as such on the farm where produced.

<sup>4</sup> Figures for 1919 do not include "cheese sold," as that item was not reported for 1919. The value of cheese sold in 1909 was \$3,610.

TABLE 29.—SHEEP ON FARMS, 1920 AND 1910; GOATS ON FARMS, 1920; AND WOOL AND MOHAIR PRODUCED, 1919 AND 1909.

ITEM.	Farms reporting.	Number of sheep (or goats) on hand.	WOOL (OR MOHAIR) PRODUCED.		
			Number of animals shorn.	Weight (pounds).	Value.
Sheep on farms Jan. 1, 1920, total.....	939	18,880			
On farms reporting wool.....	624	16,745			
On farms not reporting wool.....	315	2,135			
Sheep of shearing age <sup>1</sup> on farms Apr. 15, 1910.....	975	22,699			
Wool produced, as reported, total, 1919.....	652		14,429	81,133	\$51,008
On farms reporting sheep.....	624		13,997	78,301	\$49,359
On farms not reporting sheep.....	28		432	2,832	\$1,649
Total production of wool, including estimates.....1919.....				88,368	\$55,666
.....1909.....				127,897	\$38,670
Increase, 1909-1919 <sup>2</sup> .....				-39,539	\$21,996
Per cent of increase <sup>2</sup> .....				-30.9	65.3
Goats raised for fleeces, on farms Jan. 1, 1920.....	15	187			
Mohair produced, as reported, total.....1919.....	15		155	468	\$337
.....1909.....	35			1,695	\$509

<sup>1</sup> Sheep born before Jan. 1, 1910. <sup>2</sup> A minus sign (—) denotes decrease.

TABLE 30.—CHICKENS (OR FOWLS) ON FARMS, 1920 AND 1910; AND POULTRY PRODUCTS, 1919 AND 1909.

[The products shown for 1919 include chicken eggs and chickens only, while the 1909 figures include the products of all kinds of poultry.]

ITEM.	FARMS REPORTING.		Number or quantity.	Value.
	Num-ber.	Per cent of all farms.		
Chickens on farms Jan. 1, 1920, total.....	25,425	79.5	Number. 1,455,193	
On farms reporting eggs produced.....	21,814	68.2	1,314,571	
On farms reporting chickens raised.....	16,019	50.1	1,110,319	
Fowls on farms Apr. 15, 1910.....	28,154	76.3	1,798,380	
Eggs produced, as reported.....1919.....	22,071	69.0	Dozens. 8,801,467	\$5,570,095
Total production of eggs, including estimates.....1919.....			9,604,274	6,050,693
.....1909.....			14,145,240	4,280,445
Eggs sold, as reported.....1919.....	15,244	47.6	6,022,293	3,827,993
.....1909.....	21,084	57.1	9,614,504	2,914,755
Chickens raised, as reported.....1919.....	16,241	50.8	Number. 1,857,007	2,275,632
Total chickens raised, including estimates.....1919.....			2,401,068	2,953,314
.....1909.....			3,212,339	2,411,078
Chickens sold, as reported.....1919.....	9,893	30.9	996,275	1,218,653
.....1909.....	16,742	45.4	1,596,472	1,287,829

TABLE 31.—BEES ON FARMS, 1920 AND 1910; AND HONEY AND WAX PRODUCED, 1919 AND 1909.

ITEM.	Farms reporting.	Hives of bees.	PRODUCT.	
			Quantity (pounds).	Value.
Bees on farms Jan. 1, 1920, total.....	1,341	6,573		
On farms reporting honey.....	672	4,040		
On farms not reporting honey.....	669	2,533		
Bees on farms Apr. 15, 1910.....	1,597	7,464		
Honey produced.....1919.....	678		70,769	\$24,770
.....1909.....	952		96,802	18,806
Wax produced.....1919.....			1,312	590
.....1909.....			1,019	370



CROPS.

Summary: 1919 and 1909.—This section summarizes the census data relative to all of the farm crops of 1919 and 1909, including the percentage of increase for the decade in acreage, production, and value.

In comparing one year with another it should be borne in mind that the acreage of crops (or the number of fruit trees) and the number of farms reporting are

on the whole a better index of the general changes or tendencies in agriculture than either the quantity or the value of the crops, since variations in quantity may be due mainly to favorable or unfavorable seasons, and variations in the value of the crops may result largely from changes in prices between one census year and the next.

TABLE 32.—SUMMARY FOR ALL CROPS: 1919 AND 1909.

CROP.	FARMS REPORTING.				ACRES HARVESTED.			PRODUCTION.							
	Number.		Per cent of all farms.		1919	1909	Per cent of increase. <sup>1</sup>	Quantity.				Value.			
	1919	1909	1919	1909				Unit.	1919	1909	Per cent of increase. <sup>1</sup>	1919	1909	Per cent of increase. <sup>1</sup>	
All crops.....					560,647	652,094	-14.0						\$53,700,925	\$26,191,705	105.0
With acreage reports.....													43,478,240	24,000,893	81.2
With no acreage reports.....													10,222,685	2,190,812	268.6
Cereals, total <sup>2</sup> .....			34.2	40.0	45,861	55,267	-17.9	Bu....	1,921,607	2,402,738	-20.0	3,411,843	1,617,131	111.0	
Corn.....	10,937	14,755	34.2	40.0	28,953	41,755	-30.7	Bu....	1,515,933	2,020,351	-25.3	2,880,274	1,372,144	109.9	
Oats.....	2,214	2,181	6.9	5.9	9,633	7,927	20.3	Bu....	287,881	268,500	7.2	302,270	157,881	92.1	
Wheat, total.....	708	81	2.2	0.2	1,876	109		Bu....	33,253	2,404		76,484	2,515		
Winter.....	456	55	1.4	0.1	1,094	73		Bu....	21,337	1,710		49,070	1,739		
Spring.....	269		0.8		782	36		Bu....	11,916	694		27,408	776		
Barley.....	260	197	0.8	0.5	509	349	45.8	Bu....	11,832	9,021	31.2	18,930	7,177	163.8	
Rye.....	1,192	1,304	3.7	3.5	3,062	3,476	-11.9	Bu....	46,261	59,163	-21.8	87,896	52,396	67.8	
Buckwheat.....	679	867	2.1	2.3	1,304	1,630	-20.0	Bu....	23,238	32,926	-29.4	40,668	24,678	64.8	
Mixed crops <sup>3</sup> .....	30		0.1		124			Bu....	3,209			4,815			
Other grains and seeds with acreage reports, total <sup>4</sup> .....			3.6	3.4	1,180	486	142.8	Bu....	11,535	5,604	105.8	61,779	13,541	356.2	
Dry edible beans.....	1,160	1,252	0.2	( <sup>5</sup> )	1,004	446	145.3	Bu....	10,687	4,079	114.6	58,244	12,382	370.4	
Soy beans.....	71		0.2	( <sup>5</sup> )	63	2		Bu....	573	53		2,292	162		
Dry peas.....	37	58	0.1	0.2	21	30		Bu....	215	480	-55.2	1,075	944	13.9	
Peanuts.....	9	3	( <sup>5</sup> )	( <sup>5</sup> )	2	( <sup>7</sup> )		Bu....	60	12		168	13		
Seeds with no acreage reports, total <sup>8</sup> .....			( <sup>5</sup> )	( <sup>5</sup> )				Bu....	678	3,397	-80.0	8,468	4,454	90.1	
Red clover seed.....	13		( <sup>5</sup> )					Bu....	88			2,992			
Other clover and alfalfa seed.....	3		( <sup>5</sup> )					Bu....	67	59		1,876	575	748.6	
Timothy seed.....	22	20	0.1	0.1				Bu....	278	253	9.0	2,086	456	357.5	
Other grass seed.....	14		( <sup>5</sup> )					Bu....	194	117	65.8	1,104	262	344.3	
Millet seed.....	4	8	( <sup>5</sup> )	( <sup>5</sup> )				Bu....	51	2,068	-98.3	230	2,870	-92.0	
Hay and forage, total <sup>9</sup> .....	26,978	33,569	84.3	90.9	466,330	519,580		Tons..	871,573	832,727		20,149,187	11,290,758		
All tame or cultivated grasses.....			23.1	26.9	391,892	457,212	-14.3	Tons..	499,076	572,477	-12.8	15,835,206	9,678,199	63.6	
Timothy alone.....	7,399	9,945	39.7	38.7	78,407	106,802	-26.6	Tons..	112,817	153,622	-26.6	3,948,595	2,858,598	38.1	
Timothy and clover mixed.....	12,719	14,302	1.8	1.7	159,212	185,821	-14.3	Tons..	221,379	249,317	-11.2	7,084,128	4,338,406	63.3	
Clover alone.....	578	612	1.2	0.3	3,513	1,920	83.0	Tons..	5,463	3,145	73.7	181,162	51,652	212.0	
Alfalfa.....	392	96	1.2	0.3	1,163	232	401.3	Tons..	2,604	394	560.9	93,744	6,147		
Other tame grasses <sup>10</sup> .....	8,568	2,976	4.4	8.1	149,597	162,437	-7.9	Tons..	156,813	165,999	-6.5	4,547,577	2,423,306	87.7	
Wild, salt, or prairie grasses.....	1,403	2,976	18.4	17.2	11,690	25,290	-53.8	Tons..	12,611	25,645	-50.8	233,307	256,240	-8.9	
Small grains out for hay.....	5,391	6,368	1.0		16,581	15,522	15.6	Tons..	32,022	45,701	-24.9	816,584	409,295	113.6	
Annual legumes out for hay.....	322		11.5		1,370			Tons..	256,053			2,048,424			
Silage crops.....	3,672		18.0		23,997			Tons..	50,668	186,657		709,352	921,880		
Corn out for forage <sup>11</sup> .....	5,767		0.4		17,266	21,345		Tons..	345			4,830			
Kafir, sorghum, etc., for forage.....	116		4.8		182			Tons..	18,496	2,217	784.3	443,904	25,144		
Root crops for forage.....	1,521				3,352	211		Tons..							
Vegetables, total.....			71.3	67.1	21,558	24,459	-11.9	Bu....	1,885,655	2,946,178	-36.0	15,348,069	8,184,213	87.5	
Potatoes (Irish or white).....	22,813	24,757	22	0.1		7		Bu....		548		4,619,855	1,993,023	131.7	
Sweet potatoes and yams.....			78.2					Bu....				433			
Other vegetables <sup>12</sup> .....	8,327	28,887	26.0		24,747	37,220						7,622,622	6,189,857		
Farm garden <sup>13</sup> .....	26,450		82.7									3,105,692			
Miscellaneous crops, total.....			4.0	2.5	9,109	5,521	65.0	Lbs..	14,282,589	9,549,306	49.6	4,910,589	1,296,019	278.9	
Tobacco.....	1,293	910	4.8	4.1								4,713,255	1,218,080	286.9	
Maple sugar and sirup.....	1,546	1,525				2						197,334	77,559	154.4	
Sundry minor crops <sup>14</sup> .....												400			
Fruits, total.....			25.1		9,628	9,552	0.8	Qts..	27,099,119	29,260,143	-7.4	9,811,540	3,785,539	159.2	
Small fruits.....	8,026											2,900,249	1,076,790	73.0	
Other fruits.....												6,911,291	2,708,799	227.7	

<sup>1</sup> A minus sign (—) denotes decrease. Per cent not shown when base is less than 100 or when per cent is more than 1,000.

<sup>2</sup> Excluding 17,266 acres reported for corn cut for forage, which is practically all duplicated in the acreage shown for corn harvested as grain.

<sup>3</sup> The 1909 figures include small quantities of emmer and spelt, and kafir and milo.

<sup>4</sup> Principally oats and barley grown and harvested together.

<sup>5</sup> The 1909 figures include a small quantity of broom-corn seed.

<sup>6</sup> Less than one-tenth of 1 per cent.

<sup>7</sup> Less than 1 acre.

<sup>8</sup> The total values include the value of small quantities of flower and vegetable

seeds. The entire acreage from which the grass and clover seeds were secured is believed to be included in the acreage given elsewhere for hay and forage.

<sup>9</sup> Corn cut for forage was not reported to any extent in 1909; hence no close comparison between 1919 and 1909 can be made, either for the hay and forage totals or for the bracketed group in which corn cut for forage appears.

<sup>10</sup> Includes millet and Hungarian grass.

<sup>11</sup> The 1919 figures represent vegetables raised for sale only.

<sup>12</sup> In 1909 the value of the farm garden was largely included in the value of "other vegetables."

<sup>13</sup> These crops comprise broom corn, hops, and ginseng.

<sup>14</sup> Includes the value of a small quantity of nuts.



The combined acreage of crops harvested in Massachusetts in 1919 for which the acreage was reported was 560,647, which represents 61.7 per cent of the total improved land in farms (908,834 acres). The total crop acreage reported for 1909 was 652,094, or 56 per cent of the improved land in farms (1,164,501 acres). Most of the improved land not in crops doubtless consisted of improved pasture, land lying fallow, house and farm yards, and land occupied by orchards and vineyards, the acreage of which was not reported.

In addition to the crops regularly harvested in 1919, as shown in the tables, there were reported 826 acres of mature crops grazed or "hogged off."

**Farm value of crops.**—At the census of 1920 the farm schedule called for the value of all farm property, including live stock, and the value of live-stock products sold.

In the case of farm crops, however, wherever a unit value could be used, such as the value per bushel or per ton, the farmer was asked to report the acreage and production of each crop but not the value. To supplement the information obtained from the farmers, the Bureau of Crop Estimates of the United States Department of Agriculture secured by special schedule from its crop reporters average values for such crops. These special schedules were tabulated by the Bureau of the Census, and the resulting averages, approved by the Bureau of Crop Estimates as representing a fair average of the farm value per unit, were used in computing most of the crop values presented in the accompanying tables.

For some products it was not possible to find any satisfactory unit on which to base a computation of the total value. Values were therefore obtained in the 1920 census schedule for vegetables, other than potatoes and sweet potatoes, and for the farm garden.

TABLE 33.—ACREAGE OF IMPORTANT CROPS: 1879 TO 1919.

CROP.	1919	1909	1899	1889	1879
Corn.....	28,953	41,755	39,131	34,010	52,555
Oats.....	9,533	7,927	6,702	14,331	20,659
Rye.....	3,062	3,476	4,557	10,665	21,066
Hay and forage.....	1,466,330	519,580	610,023	627,385	639,495
Potatoes.....	21,558	24,459	27,521	26,873	31,054
Tobacco.....	9,109	5,521	3,826	2,012	3,358

<sup>1</sup>Includes 17,266 acres in corn cut for forage. This crop was not included to any extent in the hay and forage totals prior to 1919.

TABLE 34.—PERCENTAGES AND AVERAGES FOR IMPORTANT CROPS: 1919 AND 1909.

CROP.	PER CENT OF IMPROVED LAND OCCUPIED.		AVERAGE YIELD PER ACRE.			AVERAGE VALUE PER ACRE.	
	1919	1909	Unit.	1919	1909	1919	1909
Corn.....	3.2	3.6	Bu...	52.4	48.6	\$99.48	\$32.86
Oats.....	1.0	0.7	Bu...	30.2	33.9	31.71	19.85
Rye.....	0.3	0.3	Bu...	15.1	17.0	28.71	15.07
Hay and forage.....	51.3	44.6	Tons.	1.87	1.60	43.21	21.73
Potatoes.....	2.4	2.1	Bu...	87.5	120.5	214.30	81.52
Tobacco.....	1.0	0.5	Lbs..	1,568.0	1,729.6	517.43	220.02

TABLE 35.—VEGETABLES RAISED FOR SALE: 1919.

[Vegetables other than potatoes and sweet potatoes.]

CROP.	FARMS REPORTING.		Acres harvested.	Value of product.
	Number.	Per cent of all farms.		
Total.....	8,327	26.0	24,747	\$7,622,622
Asparagus.....	549	1.7	1,157	296,086
Beans (green).....	1,838	5.7	961	169,249
Beets.....	488	1.5	308	109,532
Cabbages.....	2,946	9.2	2,737	633,328
Carrots.....	641	2.0	658	178,269
Celery.....	470	1.5	942	570,882
Corn (sweet).....	4,162	13.0	5,987	836,192
Cucumbers.....	1,632	5.1	1,162	351,978
Lettuce.....	810	2.5	673	711,998
Onions.....	2,059	6.4	4,411	2,299,939
Peas (green).....	1,529	4.8	622	118,824
Spinach.....	152	0.5	255	79,845
Squashes.....	735	2.3	1,052	175,743
Tomatoes.....	2,361	7.4	1,743	483,918
Turnips.....	514	1.6	375	73,733
Watermelons.....	85	0.3	45	8,018
All other vegetables.....			882	285,341
Mixed vegetables.....	312	1.0	777	239,747

TABLE 36.—MAPLE SUGAR AND SIRUP: 1919 AND 1909.

PRODUCT.	FARMS REPORTING.		Trees tapped.	PRODUCTION.		
	Number.	Per cent of all farms.		Quantity.	Unit.	Value.
Total.....1919..	1,546	4.8	252,751			\$197,334
.....1909..	1,525	4.1	256,501			77,559
Sugar made.....1919..				73,198	Lbs...	29,278
.....1909..	442	1.2		156,952	Lbs...	22,277
Sirup made.....1919..				57,950	Gals...	168,056
.....1909..	1,457	3.9		53,091	Gals...	55,282



TABLE 37.—SMALL FRUITS: 1919 AND 1909.

CROP.		FARMS REPORTING.		Acres harvested.	PRODUCTION.	
		Number.	Per cent of all farms.		Quantity (quarts).	Value.
Total	1919..	8,028	25.1	9,628	27,099,119	\$2,900,249
	1909..			9,552	29,280,143	1,676,790
Strawberries	1919..	4,868	15.2	1,431	3,151,371	787,844
	1909..	4,654	12.6	2,015	5,618,867	495,438
Raspberries	1919..	2,897	9.1	481	467,328	158,892
	1919..	13	(1)	(2)	1,387	319
Raspberries and loganberries	1909..	1,508	4.1	388	376,136	55,757
Blackberries and dewberries	1919..	1,856	5.8	340	251,951	57,949
	1909..	1,368	3.7	287	307,987	31,454
Cranberries	1919..	866	2.7	7,096	22,918,103	1,833,448
	1909..	1,350	3.7	6,577	22,714,496	1,082,205
Currants	1919..	1,281	4.0	236	266,908	53,382
	1909..	1,536	4.2	243	213,810	19,904
Other berries	1919..	131	0.4	44	42,071	8,415
	1909..			42	128,847	12,032

<sup>1</sup> Less than one-tenth of 1 percent.

<sup>2</sup> Less than 1 acre.

TABLE 38.—FRUIT TREES AND GRAPEVINES NOT OF BEARING AGE: 1920 AND 1910.

FRUIT.	FARMS REPORTING.				TREES OR VINES NOT OF BEARING AGE.	
	Number.		Per cent of all farms.		1920	1910
	1920	1910	1920	1910		
Orchard fruits, total <sup>1</sup>	12,486	9,278	39.0	25.1	1,010,397	591,796
Apples	10,663	9,278	33.3	25.1	791,771	355,888
Peaches	3,235	3,252	10.3	8.8	135,426	162,114
Pears	3,906	3,535	12.2	9.6	62,745	38,378
Plums and prunes	2,501	2,932	7.8	7.9	16,553	23,871
Cherries	2,377	1,662	7.4	4.5	13,123	6,776
Grapes	1,713	1,204	5.4	3.3	22,691	14,261

<sup>1</sup> Includes apricots and quinces. Since these fruits were not specifically called for by the 1920 schedule, the returns for that year are somewhat incomplete.

TABLE 39.—ORCHARD FRUITS AND GRAPES: 1919 AND 1909.

FRUIT.	FARMS REPORTING TREES OR VINES OF BEARING AGE.				NUMBER OF TREES OR VINES OF BEARING AGE.		PRODUCTION.					
	Number.		Per cent of all farms.				Quantity.			Value.		
	1920	1910	1920	1910	1920	1910	Unit.	1919	1909	1919	1909	
Orchard fruits, total <sup>1</sup>	24,869		77.7	-----	1,705,466	1,698,220	Bu....	3,502,244	2,763,679	\$6,830,533	\$2,074,270	
Apples	24,270	27,937	75.8	75.7	1,218,870	1,367,379	Bu....	3,157,211	2,550,259	6,055,701	1,780,290	
Peaches	7,085	5,038	22.1	13.0	349,260	154,502	Bu....	213,139	91,750	532,851	136,713	
Pears	12,285	13,930	38.4	37.7	88,030	113,305	Bu....	84,460	96,071	130,037	110,030	
Plums and prunes	5,040	6,057	17.6	16.4	32,764	41,345	Bu....	13,152	17,814	30,170	28,253	
Cherries	4,474	3,902	14.0	10.6	18,239	13,396	Bu....	4,115	4,761	15,432	10,543	
Grapes	7,319	6,003	22.9	16.3	81,494	58,277	Lbs...	1,009,479	1,132,838	80,758	30,858	

<sup>1</sup> Includes apricots, quinces, and (for 1910) mulberries. Since these fruits were not specifically called for by the 1920 schedule, the returns for that year are somewhat incomplete.



**Age of farmers.**—A farmer or farm operator, as defined for census purposes, is a person who operates a farm. The number of farm operators, for which the age distribution is shown in the following table, is therefore the same as the number of farms.

TABLE 40.—FARM OPERATORS CLASSIFIED ACCORDING TO AGE AND TENURE: 1920 AND 1910.

AGE.	TOTAL.		OWNERS.		MAN-AGERS.		TENANTS.	
	1920	1910	1920	1910	1920	1910	1920	1910
All farmers, total...	32,001	36,917	28,087	32,075	1,627	1,863	2,287	2,979
Reporting age.....	31,192	36,528	27,393	31,790	1,569	1,798	2,230	2,940
Under 25 years.....	393	439	250	251	56	73	87	115
25 to 34 years.....	3,072	3,575	2,315	2,610	289	337	468	628
35 to 44 years.....	6,388	7,904	5,312	6,480	440	528	636	896
45 to 54 years.....	8,580	9,468	7,504	8,325	419	462	567	681
55 to 64 years.....	7,146	7,740	6,006	7,116	250	252	290	372
65 years and over.....	5,613	7,402	5,316	7,008	115	146	182	248
Not reporting age.....	809	389	691	285	58	65	57	39

**Farmers classified by number of years on farm.**—In the following table the farmers of the state are classified according to the number of years they had been on the farms which they were operating when the census was taken. The purpose of this classification is to show the relative stability of the different classes.

In 1920 the date of enumeration (January 1) came just before the period during which changes from one farm to another are commonly made in most localities, and hence at a time when many farmers had almost, but not quite, completed one, two, or more years on their farms. Considerable numbers of these farmers reported one, two, or more full years, in place of reporting the correct number of months (or years and months). In 1910, however, the enumeration date (April 15) was late enough so that, in localities where the common moving time was in the early part of the year, the number of years of occupancy was accurately reported. These differences seriously affect the comparability of the returns, especially for the first two years of occupancy. Hence these two years, which were tabulated separately and are so published in Volume V of the Fourteenth Census Reports, have been combined in the following table.

TABLE 41.—FARM OPERATORS CLASSIFIED ACCORDING TO NUMBER OF YEARS ON FARM, BY TENURE: 1920 AND 1910.

NUMBER OF YEARS ON FARM.	TOTAL.		OWNERS.		MAN-AGERS.		TENANTS.	
	1920	1910	1920	1910	1920	1910	1920	1910
All farmers, total...	32,001	36,917	28,087	32,075	1,627	1,863	2,287	2,979
Rptg. years on farm.....	31,233	34,100	27,497	29,603	1,558	1,687	2,181	2,810
Less than 2 years.....	3,859	4,027	2,858	2,725	376	402	625	900
2 to 4 years.....	5,038	6,123	3,980	4,780	381	467	677	876
5 to 9 years.....	6,252	6,328	5,476	5,426	362	359	414	543
10 years and over.....	16,084	17,622	15,183	16,672	436	459	465	491
Not reporting.....	768	2,817	590	2,472	72	176	106	169

**Cooperative marketing and purchasing.**—Cooperative marketing of farm products or cooperative purchasing of supplies through farmers' organizations in 1919 was reported by 1,547 farms in Massachusetts, including 209 farms which reported both sales and purchases,

538 farms which reported sales only, and 800 farms which reported purchases only.

TABLE 42.—COOPERATIVE MARKETING AND PURCHASING THROUGH FARMERS' ORGANIZATIONS: 1919.

ITEM.	FARMS REPORTING.		AMOUNT.	
	Number.	Per cent of all farms.	Total.	Average per farm.
Marketing or purchasing.....	1,547	4.8		
Marketing.....	747	2.3	\$1,671,099	\$2,237
Purchasing.....	1,009	3.2	521,547	517

**Farm facilities—Motor vehicles, telephones, water, and light on farms.**—The following table indicates the extent to which the farmers of Massachusetts used motor vehicles and telephones, and the extent to which the farm homes were supplied with water and modern lighting facilities.

TABLE 43.—MOTOR VEHICLES, TELEPHONES, WATER, AND LIGHT ON FARMS: 1920.

ITEM.	FARMS REPORTING.		Number reported.	Number per 1,000 of all farms.
	Number.	Per cent of all farms.		
Automobiles.....	8,181	25.6	9,309	291
Motor trucks.....	3,136	9.8	3,635	110
Tractors.....	540	1.7	592	19
Telephones.....	16,637	51.7		
Water piped into house.....	16,893	52.8		
Gas or electric light.....	9,062	28.3		

**Pure-bred live stock on farms.**—The inquiry relating to pure-bred live stock called for registered animals only, but it seems evident, from a study of the returns, that some animals merely eligible for registry (but not actually registered) were included in the reports.

The number of farms in Massachusetts in 1920 was 32,001, of which number 27,508 reported domestic animals of some kind, and 3,546 reported pure-bred live stock.

TABLE 44.—PURE-BRED LIVE STOCK CLASSIFIED ACCORDING TO BREED: 1920.

NOTE.—Pure-bred horses reported in Massachusetts represented 1 per cent of all horses on farms (see Table 23); pure-bred cattle, 9.3 per cent of the total; pure-bred sheep, 6.6 per cent; and pure-bred swine, 6.3 per cent.

BREED.	Number.	BREED.	Number.
Horses, total.....	510	Sheep, total.....	1,245
American Saddle.....	11	Cheviot.....	170
Belgian.....	39	Dorset Horn.....	284
Clydesdale.....	72	Hampshire Down.....	59
Hackney.....	49	Oxford.....	23
Percheron.....	92	Shropshire.....	550
Standard Bred.....	98	Southdown.....	54
All other breeds <sup>1</sup> .....	149	All other breeds <sup>1</sup> .....	105
Cattle, total.....	19,993	Swine, total.....	6,533
Beef breeds, total.....	1,186	Berkshire.....	3,843
Aberdeen Angus.....	112	Chester White.....	907
Hereford.....	344	Duroc-Jersey.....	518
Shorthorn.....	717	Hampshire.....	88
All other beef breeds <sup>1</sup> .....	13	Poland China.....	206
Dairy breeds, total.....	18,807	Spotted Poland China.....	17
Ayrshire.....	1,880	Tamworth.....	52
Brown Swiss.....	80	Yorkshire.....	413
Guernsey.....	3,348	All other breeds <sup>1</sup> .....	489
Holstein-Friesian.....	10,006		
Jersey.....	2,904		
All other dairy breeds <sup>1</sup> .....	589		

<sup>1</sup> Includes animals reported as pure bred, with breed not specified.



Calves, pigs, and lambs raised on farms.—The figures presented include young animals born in 1919, which were retained on the farm, sold to others, or slaughtered for food, but do not include young animals purchased or those that died.

TABLE 45.—CALVES, PIGS, AND LAMBS RAISED ON FARMS: 1919.

ITEM.	FARMS REPORTING.		ANIMALS RAISED.	
	Number.	Per cent of all farms.	Number.	Average per farm.
Calves.....	11,592	36.2	59,363	5.1
Pigs.....	6,058	18.9	118,589	19.6
Lambs.....	603	1.9	7,089	11.8

Domestic animals sold or slaughtered on farms.—The number of cattle, swine, and sheep slaughtered on farms was reported for both 1919 and 1909, but the farm schedule for 1919 carried no inquiry with regard to the value of the animals slaughtered, or with regard to the number or value of the animals sold by farmers. The total value of domestic animals sold or slaughtered on farms in Massachusetts in 1919 has been estimated, however, at \$10,900,000, as compared with \$6,020,530, the value reported for 1909.

TABLE 46.—DOMESTIC ANIMALS SLAUGHTERED ON FARMS: 1919 AND 1909.

ITEM AND CENSUS YEAR.	FARMS REPORTING.		ANIMALS SLAUGHTERED.		Meat and meat products sold (pounds).
	Number.	Per cent of all farms.	Number.	Average per farm.	
Cattle and calves..... 1919..	2,553	8.0	8,263	3.2	985,897
..... 1909..	2,708		27,708		
Cattle..... 1919..	2,021	5.6	13,521	6.7	
Calves..... 1909..	995	2.7	14,187	14.3	
Swine..... 1919..	11,749	36.7	36,413	3.1	3,475,055
..... 1909..	7,183	19.5	27,754	3.9	
Sheep and lambs..... 1919..	266	0.8	1,601	6.0	47,550
..... 1909..	202	0.5	2,412	11.9	

Sales of selected crops.—The sales of the crops listed represent that part of the year's production which was sold, or to be sold, by those farmers who produced the crops.

TABLE 47.—PRODUCTION AND SALES OF SELECTED CROPS: 1919 AND 1909.

CROP AND CENSUS YEAR.	Farms reporting production.	FARMS REPORTING SALES.		Production.	QUANTITY SOLD (OR TO BE SOLD).	
		Number.	Per cent of farms reporting production.		Amount.	Per cent of production.
Corn..... 1919..	10,937	293	2.7	<i>Bushels.</i> 1,515,933	<i>Bushels.</i> 45,194	3.0
..... 1909..	14,755	316	2.1	2,029,381	30,082	1.5
Oats..... 1919..	2,214	29	1.3	287,881	3,504	1.2
..... 1909..	2,181	66	3.0	268,500	4,901	1.8
Barley..... 1919..	260	11	4.2	11,832	324	2.7
..... 1909..	197	3	1.5	9,021	20	0.2
Hay..... 1919..				<i>Tons.</i> 546,011	<i>Tons.</i> 47,963	8.8
..... 1909..				643,823	43,908	6.8
Potatoes..... 1919..	22,813	8,074	35.4	<i>Bushels.</i> 1,885,655	<i>Bushels.</i> 872,809	46.3
Apples..... 1919..		11,052		3,187,211	2,618,016	82.1

Fruit products of farms.—The figures relate only to fruit products obtained from fruit grown on those farms reporting the products.

TABLE 48.—FRUIT PRODUCTS (FARM PRODUCTION): 1919 AND 1909.

ITEM.	Farms reporting.	Production.
Cider..... 1919..	6,653	<i>Gallons.</i> 537,886
..... 1909..	6,562	1,004,392
Cider made (or to be made) into vinegar..... 1919..	4,113	210,496
Vinegar made on farms <sup>1</sup> ..... 1909..	1,651	133,553
Grape juice..... 1919..	627	5,591
Wine and grape juice..... 1909..	532	12,937
Dried fruits..... 1919..	51	<i>Pounds.</i> 5,594
..... 1909..	25	465

<sup>1</sup> Includes vinegar other than that made from cider.

Forest products of farms.—Forest products, as defined on the farm schedule, include firewood, fence posts, crossties, pulp wood, saw logs, poles, etc., and standing timber sold and cut during the years indicated. The figures cover only forest products of farms and do not represent by any means the total value of all forest products cut in the state during the census years.

TABLE 49.—FOREST PRODUCTS OF FARMS: 1919 AND 1909.

ITEM.	1919	1909
Forest products of farms:		
Farms reporting.....	13,106	17,468
Per cent of all farms.....	41.0	47.3
Value.....	\$4,401,522	\$2,068,410
Average per farm reporting.....	\$343	\$153
Forest products sold from farms (or cut and held for sale):		
Farms reporting.....	4,476	
Value.....	\$2,032,700	\$1,795,285
Average per farm reporting.....	\$468	
Forest products used on farms (or cut and held for use):		
Farms reporting.....	12,237	
Value.....	\$1,508,822	\$873,125
Average per farm reporting.....	\$123	

Nurseries and greenhouses.—The data presented for nurseries include the returns from all farms and establishments reporting receipts from the sale of nursery stock, and those for greenhouses include the returns from all farms and establishments reporting receipts from the sale of greenhouse products (whether grown in hothouses or in cold frames).

TABLE 50.—NURSERIES AND GREENHOUSES: 1919 AND 1909.

ITEM.	1919	1909
Nurseries:		
Number of nurseries (farms and establishments) reporting.....	107	119
Acreage used for growing nursery stock.....	1,517	1,547
Receipts from sale of products.....	\$743,323	\$605,375
Average receipts per nursery.....	\$6,947	\$5,091
Average receipts per acre.....	\$490.00	\$391.65
Greenhouses:		
Number of farms and establishments reporting.....	990	814
Square feet under glass.....	12,953,023	7,382,009
Receipts from sale of products.....	\$5,536,532	\$2,456,467
Flowers and flowering plants.....	\$3,605,698	
Vegetables and vegetable plants.....	\$1,930,834	
Average receipts per farm or establishment.....	\$5,592	\$3,017



COUNTY TABLE I.—FARMS AND FARM PROPERTY, 1920,

		THE STATE.	Barn- stable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.
<b>ALL FARMS.</b>								
1	Number of farms, 1920.....	32,001	675	2,359	3,770	152	2,966	2,784
2	1910.....	36,917	864	2,947	3,637	186	2,888	3,113
3	1900.....	37,715	809	3,436	3,459	212	2,942	3,280
4	All farmers classified by sex, 1920:							
5	Male.....number.....	30,026	631	2,207	3,496	148	2,792	2,619
6	Female.....number.....	1,975	44	152	274	4	174	165
7	Color and nativity of all farmers, 1920:							
8	Native white.....number.....	22,950	548	1,855	2,383	113	2,256	2,163
9	Foreign-born white.....number.....	8,930	115	493	1,367	18	708	619
10	Negro and other nonwhite.....number.....	121	12	11	20	21	2	2
11	All farms classified by size, 1920:							
12	Under 3 acres.....number.....	872	18	8	126	3	306	35
13	3 to 9 acres.....number.....	4,388	126	133	703	11	615	295
14	10 to 19 acres.....number.....	4,245	113	188	621	10	464	245
15	20 to 49 acres.....number.....	7,532	215	303	1,108	28	712	537
16	50 to 99 acres.....number.....	6,834	116	463	772	31	483	613
17	100 to 174 acres.....number.....	4,888	51	597	324	34	223	609
18	175 to 259 acres.....number.....	1,840	18	368	75	15	79	272
19	260 to 499 acres.....number.....	1,055	12	227	32	12	59	152
20	500 to 999 acres.....number.....	265	4	57	6	3	20	20
21	1,000 acres and over.....number.....	82	2	15	3	5	5	6
<b>LAND AND FARM AREA.</b>								
22	Approximate land area, 1920.....acres.....	5,144,960	261,760	618,240	362,880	68,480	318,080	446,080
23	Land in farms, 1920.....acres.....	2,494,477	47,679	356,264	177,761	34,421	148,541	271,460
24	1910.....acres.....	2,875,941	49,798	388,653	190,285	19,209	171,839	314,700
25	1900.....acres.....	3,147,064	44,253	472,288	195,694	34,188	170,889	350,032
26	Improved land in farms, 1920.....acres.....	908,834	13,619	139,744	68,061	7,790	64,429	75,307
27	1910.....acres.....	1,164,501	17,379	159,703	76,766	4,981	82,067	92,501
28	1900.....acres.....	1,292,132	16,963	200,034	73,619	14,461	89,274	127,786
29	Woodland in farms, 1920.....acres.....	1,030,386	26,863	198,691	71,661	13,630	45,227	115,121
30	Other unimproved land in farms, 1920.....acres.....	555,257	7,197	38,805	38,039	13,001	38,885	78,032
31	Percent of land area in farms, 1920.....	48.5	18.2	57.6	49.0	50.3	46.7	60.9
32	Percent of farm land improved, 1920.....	36.4	28.6	39.2	38.3	22.6	43.4	27.7
33	Average acreage per farm, 1920.....	77.9	70.6	151.0	47.2	226.5	50.1	97.5
34	Average improved acreage per farm, 1920.....	28.4	20.2	59.2	18.1	61.3	21.7	27.0
<b>VALUE OF FARM PROPERTY.</b>								
35	All farm property, 1920.....dollars.....	300,471,743	5,545,538	24,597,870	26,797,528	1,377,201	37,068,415	18,397,412
36	1910.....dollars.....	226,474,025	4,476,952	19,314,342	17,394,954	662,117	24,978,227	12,170,694
37	1900.....dollars.....	182,646,704	2,318,098	16,625,757	13,649,394	851,435	18,211,466	10,235,497
38	Land in farms, 1920.....dollars.....	127,653,607	2,571,815	10,880,218	11,103,970	660,247	16,517,280	7,335,460
39	1910.....dollars.....	105,532,616	2,343,456	9,289,704	7,170,917	321,408	12,134,946	4,944,853
40	1900.....dollars.....	86,925,410	1,045,530	7,963,550	5,787,000	423,240	9,293,650	4,348,180
41	Farm buildings, 1920.....dollars.....	119,034,224	2,235,439	9,085,806	10,718,570	479,200	15,893,720	6,921,594
42	1910.....dollars.....	88,636,140	1,678,789	7,212,563	7,504,486	231,680	9,701,853	4,847,733
43	1900.....dollars.....	71,033,880	952,360	6,432,550	5,909,030	314,100	6,007,280	3,057,880
44	Implements and machinery, 1920.....dollars.....	19,359,755	355,856	1,447,558	1,735,230	80,340	1,737,663	1,507,854
45	1910.....dollars.....	11,563,894	198,579	858,773	922,906	32,905	1,169,304	787,877
46	1900.....dollars.....	8,828,950	140,320	675,070	730,510	35,060	918,920	645,710
47	Live stock on farms, 1920.....dollars.....	33,524,157	382,378	3,184,288	3,239,758	157,414	2,919,743	2,632,504
48	1910.....dollars.....	20,741,366	255,148	1,953,302	1,796,645	76,124	1,882,124	1,590,731
49	1900.....dollars.....	15,798,464	173,888	1,554,587	1,222,854	79,005	1,391,616	1,289,227
50	Average values, 1920:							
51	All property per farm.....dollars.....	9,389	8,216	10,427	7,108	9,061	12,498	6,608
52	Land and buildings per farm.....dollars.....	7,737	7,122	8,464	5,788	7,496	10,928	5,121
53	Land alone per acre.....dollars.....	51.17	63.94	30.54	62.47	19.18	111.20	27.02
<b>FARMS OPERATED BY OWNERS.</b>								
54	Number of farms, 1920.....	28,087	589	1,914	3,279	134	2,452	2,534
55	1910.....	32,075	761	2,390	3,096	123	2,342	2,789
56	1900.....	32,581	749	2,819	2,893	193	2,482	2,957
57	Percent of all farms, 1920.....	87.8	87.3	81.1	87.0	88.2	82.7	91.0
58	Land in farms, 1920.....acres.....	2,021,920	39,412	236,976	141,379	17,502	108,996	251,729
59	Improved land in farms, 1920.....acres.....	744,523	11,191	97,271	55,710	6,607	47,993	69,816
60	Value of land and buildings, 1920.....dollars.....	182,098,530	3,364,344	11,084,925	17,168,845	818,992	17,951,118	12,904,836
61	Degree of ownership, 1920:							
62	Farmers owning entire farm.....number.....	26,515	550	1,777	3,137	124	2,241	2,350
63	Farmers hiring additional land.....number.....	1,572	39	137	142	10	211	184
64	Color and nativity of owners, 1920:							
65	Native white owners.....number.....	20,157	481	1,519	2,059	100	1,927	2,012
66	Foreign-born white owners.....number.....	7,823	96	386	1,202	13	523	520
67	Negro and other nonwhite owners.....number.....	107	12	9	18	21	2	2
<b>FARMS OPERATED BY MANAGERS.</b>								
68	Number of farms, 1920.....	1,627	56	187	186	9	255	57
69	1910.....	1,863	65	233	153	9	249	69
70	1900.....	1,531	29	174	103	10	122	77
71	Land in farms, 1920.....acres.....	313,065	7,033	79,471	16,293	15,944	29,326	10,160
72	Improved land in farms, 1920.....acres.....	104,650	1,864	27,015	5,807	813	11,538	3,082
73	Value of land and buildings, 1920.....dollars.....	50,988,024	1,285,800	7,313,384	2,737,675	290,415	12,744,598	841,610
<b>FARMS OPERATED BY TENANTS.</b>								
74	Number of farms, 1920.....	2,287	30	258	355	9	259	103
75	1910.....	2,979	38	324	388	4	292	255
76	1900.....	3,603	31	443	463	9	338	246
77	Percent of all farms, 1920.....	7.1	4.4	10.9	9.4	5.9	8.7	8.0
78	Land in farms, 1920.....acres.....	159,462	1,234	39,817	20,089	975	10,219	9,571
79	Improved land in farms, 1920.....acres.....	59,661	464	15,458	6,544	370	4,898	2,909
80	Value of land and buildings, 1920.....dollars.....	14,501,277	157,160	1,617,715	1,926,020	21,040	1,715,298	510,608
81	Form of tenancy, 1920:							
82	Share tenants.....number.....	330	3	25	21	2	7	96
83	Share-cash tenants.....number.....	23	.....	2	2	.....	3	4
84	Cash tenants.....number.....	1,766	20	231	249	6	242	93
85	Unspecified.....number.....	168	7	.....	83	1	7	.....
86	Color and nativity of tenants, 1920:							
87	Native white tenants.....number.....	1,602	26	192	222	6	196	103
88	Foreign-born white tenants.....number.....	678	4	65	132	3	63	90
89	Negro and other nonwhite tenants.....number.....	7	.....	1	1	.....	.....	.....

1 Part of Hampshire County annexed to Hampden County in 1909.



WITH SELECTED ITEMS FOR 1910 AND 1900.

		Hampden. <sup>1</sup>	Hampshire. <sup>1</sup>	Middlesex. <sup>2</sup>	Nantucket.	Norfolk. <sup>2</sup>	Plymouth.	Suffolk. <sup>2</sup>	Worcester.
<b>ALL FARMS.</b>									
1	Number of farms, 1920.....	2,068	2,079	4,446	24	1,404	2,171	71	6,132
2	1910.....	2,779	2,917	5,846	24	2,208	2,512	92	7,464
3	1900.....	2,589	3,517	4,955	54	2,212	2,558	102	7,550
4	All farmers classified by sex, 1920:								
5	Male.....number..	1,949	2,824	4,188	23	1,813	2,026	68	5,742
6	Female.....number..	119	155	258	1	91	145	3	390
7	Color and nativity of all farmers, 1920:								
8	Native white.....number..	1,511	2,096	3,127	23	896	1,621	45	4,313
9	Foreign-born white.....number..	555	879	1,310	1	504	527	26	1,808
10	Negro and other nonwhite.....number..	2	4	9	.....	4	23	.....	11
11	All farms classified by size, 1920:								
12	Under 3 acres.....number..	21	42	146	.....	69	43	19	36
13	3 to 9 acres.....number..	200	421	690	.....	205	396	14	879
14	10 to 19 acres.....number..	202	321	730	2	223	426	9	691
15	20 to 49 acres.....number..	418	599	1,118	3	412	632	10	1,437
16	50 to 99 acres.....number..	482	674	926	6	288	369	13	1,598
17	100 to 174 acres.....number..	415	541	593	4	147	213	4	1,133
18	175 to 259 acres.....number..	184	209	144	3	32	35	1	405
19	260 to 499 acres.....number..	111	120	77	3	21	36	1	192
20	500 to 999 acres.....number..	28	42	20	3	4	12	.....	48
21	1,000 acres and over.....number..	7	10	2	.....	3	9	.....	15
<b>LAND AND FARM AREA.</b>									
22	Approximate land area, 1920.....acres..	407,040	374,400	532,480	32,640	259,840	432,000	35,200	995,840
23	Land in farms, 1920.....acres..	211,143	267,008	257,165	4,461	75,786	122,707	2,471	517,610
24	1910.....acres..	253,398	276,054	349,634	3,109	104,042	136,015	3,435	615,116
25	1900.....acres..	292,153	321,924	316,670	4,077	115,053	150,175	4,280	660,388
26	Improved land in farms, 1920.....acres..	73,825	90,083	117,290	1,572	30,183	44,101	1,663	181,167
27	1910.....acres..	100,431	103,271	182,880	1,250	45,990	50,196	2,666	244,330
28	1900.....acres..	121,854	134,180	145,130	2,026	48,581	56,984	3,207	257,733
29	Woodland in farms, 1920.....acres..	100,695	122,225	91,897	342	31,973	63,990	467	204,404
30	Other unimproved land in farms, 1920.....acres..	36,623	54,700	47,978	2,547	13,630	14,616	341	132,039
31	Per cent of land area in farms, 1920.....	51.9	71.3	48.3	13.7	29.2	28.4	7.0	52.0
32	Per cent of farm land improved, 1920.....	35.0	33.7	45.6	35.2	39.8	35.9	67.3	35.0
33	Average acreage per farm, 1920.....	102.1	89.6	57.8	185.9	54.0	56.5	34.8	84.4
34	Average improved acreage per farm, 1920.....	35.7	30.2	26.4	65.5	21.5	20.3	23.4	29.5
<b>VALUE OF FARM PROPERTY.</b>									
35	All farm property, 1920.....dollars..	19,115,182	24,548,115	50,189,584	236,672	20,960,064	20,446,927	3,019,439	48,170,896
36	1910.....dollars..	14,515,476	13,654,146	42,459,401	119,851	18,523,980	15,245,014	5,013,132	37,946,199
37	1900.....dollars..	11,051,368	12,097,482	30,112,837	151,909	13,030,110	9,559,401	4,690,843	33,515,017
38	Land in farms, 1920.....dollars..	8,312,966	9,656,590	19,737,557	95,780	9,790,369	9,895,680	2,253,637	18,842,032
39	1910.....dollars..	6,551,940	5,465,451	19,355,503	44,850	9,167,227	7,727,746	4,047,619	10,907,487
40	1900.....dollars..	4,827,500	4,935,510	18,286,450	70,450	6,709,190	4,052,370	3,482,500	15,705,390
41	Farm buildings, 1920.....dollars..	7,393,204	10,190,601	21,935,473	87,000	8,512,953	7,479,130	510,050	18,401,425
42	1910.....dollars..	5,755,401	5,777,372	17,538,291	42,950	7,430,958	5,510,237	734,050	14,570,806
43	1900.....dollars..	4,468,590	5,149,240	13,000,720	49,150	5,310,710	4,574,760	990,040	12,717,070
44	Implements and machinery, 1920.....dollars..	1,300,679	1,935,843	3,509,119	14,700	1,005,982	1,219,090	95,199	3,414,042
45	1910.....dollars..	769,433	871,490	2,102,716	9,850	716,891	760,942	128,054	2,174,204
46	1900.....dollars..	681,860	669,040	1,635,010	8,280	560,460	252,160	70,220	1,820,300
47	Live stock on farms, 1920.....dollars..	2,108,393	2,705,081	5,007,435	39,192	1,651,600	1,853,021	169,553	7,422,797
48	1910.....dollars..	1,539,868	1,595,868	3,402,891	22,201	1,199,804	1,246,689	103,469	4,233,042
49	1900.....dollars..	1,123,418	1,313,692	2,530,057	24,119	1,055,750	680,211	87,183	3,272,257
50	Average values, 1920:								
51	All property per farm.....dollars..	9,243	8,240	11,289	9,861	14,029	9,418	42,527	7,856
52	Land and buildings per farm.....dollars..	7,595	9,062	9,873	7,616	13,037	8,003	38,925	6,088
53	Land alone per acre.....dollars..	39.87	36.17	76.75	21.47	129.18	80.64	912.03	36.40
<b>FARMS OPERATED BY OWNERS.</b>									
54	Number of farms, 1920.....	1,908	2,735	3,909	19	1,168	1,886	54	5,506
55	1910.....	2,451	2,684	4,005	22	1,881	2,290	55	6,016
56	1900.....	2,305	3,209	4,203	47	1,839	2,260	104	6,515
57	Per cent of all farms, 1920.....	92.3	81.8	87.9	79.2	83.2	86.9	76.1	89.8
58	Land in farms, 1920.....acres..	191,522	241,726	212,345	3,422	53,995	89,212	1,253	432,451
59	Improved land in farms, 1920.....acres..	67,690	80,494	98,339	1,096	21,410	32,589	831	153,071
60	Value of land and buildings, 1920.....dollars..	13,809,906	17,411,373	33,012,094	101,600	11,240,017	11,860,151	1,065,602	30,364,732
61	Degree of ownership, 1920:								
62	Farmers owning entire farm.....number..	1,830	2,536	3,699	15	1,121	1,792	44	5,299
63	Farmers hiring additional land.....number..	78	199	210	4	47	94	10	207
64	Color and nativity of owners, 1920:								
65	Native white owners.....number..	1,381	1,927	2,741	19	733	1,393	36	3,820
66	Foreign-born white owners.....number..	526	805	1,160	.....	433	475	18	1,666
67	Negro and other nonwhite owners.....number..	1	3	8	.....	2	18	.....	11
<b>FARMS OPERATED BY MANAGERS.</b>									
68	Number of farms, 1920.....	61	82	262	3	136	138	8	237
69	1910.....	99	79	301	.....	150	116	20	320
70	1900.....	57	82	266	.....	132	116	15	348
71	Land in farms, 1920.....acres..	10,692	15,044	31,799	406	16,634	26,562	1,017	52,714
72	Improved land in farms, 1920.....acres..	3,810	5,495	12,973	326	6,779	8,413	650	16,485
73	Value of land and buildings, 1920.....dollars..	1,300,464	1,561,473	6,372,055	70,180	5,984,355	4,372,915	1,224,785	4,879,315
<b>FARMS OPERATED BY TENANTS.</b>									
74	Number of farms, 1920.....	99	162	275	2	100	147	9	389
75	1910.....	229	154	440	2	172	136	17	528
76	1900.....	227	226	486	7	241	156	43	687
77	Per cent of all farms, 1920.....	4.8	5.4	6.2	8.3	7.1	6.8	12.7	6.3
78	Land in farms, 1920.....acres..	8,929	10,238	13,021	633	5,157	6,933	201	32,445
79	Improved land in farms, 1920.....acres..	2,516	4,094	5,078	160	1,988	3,099	182	10,711
80	Value of land and buildings, 1920.....dollars..	595,800	874,345	2,288,881	11,000	1,078,950	1,141,760	473,300	2,088,410
81	Form of tenancy, 1920:								
82	Share tenants.....number..	9	67	17	1	2	14	1	65
83	Share-cash tenants.....number..	1	5	2	.....	1	1	.....	3
84	Cash tenants.....number..	84	88	239	1	84	100	8	321
85	Unspecified.....number..	5	2	17	.....	14	32	.....	.....
86	Color and nativity of tenants, 1920:								
87	Native white tenants.....number..	78	101	197	1	71	114	4	291
88	Foreign-born white tenants.....number..	20	61	78	1	27	31	5	98
89	Negro and other nonwhite tenants.....number..	1	.....	.....	.....	2	2	.....	.....

<sup>1</sup> Part of Middlesex County annexed to Norfolk County in 1907; part of Norfolk County annexed to Suffolk County in 1912.



COUNTY TABLE II.—LIVE STOCK ON FARMS AND RANGES,

		THE STATE.	Barnstable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.
<b>DOMESTIC ANIMALS: 1920.</b>								
1	Farms reporting domestic animals.....	number.....	27,508	488	2,223	3,057	142	2,392
2	Value of all domestic animals.....	dollars.....	30,612,291	303,778	3,010,163	2,802,474	140,001	2,580,128
3	<b>Horses:</b>							
4	Total number.....		50,605	580	5,402	5,049	220	4,117
5	Colts under 1 year of age.....		1,111	3	190	103	6	75
6	Colts 1 year old and under 2 years.....		529	2	121	38	2	29
7	Mares 2 years old and over.....		14,880	197	1,860	1,244	63	1,148
8	Geldings 2 years old and over.....		33,461	363	3,154	3,635	149	2,815
9	Stallions 2 years old and over.....		624	15	73	29	50	24
10	Total value.....	dollars.....	7,771,029	77,111	837,504	629,919	30,703	647,041
11	<b>Mules:</b>							
12	Total number.....		332	11	46	10	32	12
13	Mule colts under 1 year of age.....		6			2		
14	Mule colts 1 year old and under 2 years.....		16	1			5	
15	Mules 2 years old and over.....		810	10	46	8	27	12
16	Total value.....	dollars.....	44,251	1,775	6,405	1,075	4,390	2,236
17	<b>Asses and burros:</b>							
18	Total number.....		52		4	1	11	1
19	Total value.....	dollars.....	4,270		80	245	670	30
20	<b>Cattle:</b>							
21	Total number.....		216,099	2,172	24,732	18,596	945	17,338
22	Total value.....	dollars.....	20,093,098	189,583	1,943,971	1,880,190	67,897	1,702,282
23	<b>Beef cattle—</b>							
24	Total number.....		10,089	164	1,413	935	97	821
25	Calves under 1 year of age.....		1,823	50	336	88	34	140
26	Heifers 1 year old and under 2 years.....		1,817	22	152	138	7	98
27	Cows and heifers 2 years old and over.....		4,533	74	593	577	13	453
28	Steers 1 year old and under 2 years.....		760	7	156	36	25	122
29	Steers 2 years old and over.....		1,242	6	128	73	16	78
30	Bulls 1 year old and over.....		414	5	48	23	2	21
31	Total value.....	dollars.....	700,228	9,371	105,790	74,320	6,577	61,708
32	<b>Dairy cattle—</b>							
33	Total number.....		206,010	2,008	23,319	17,661	848	16,517
34	Calves under 1 year of age.....		26,618	254	3,847	1,465	133	1,624
35	Heifers 1 year old and under 2 years.....		26,513	1,450	3,428	2,006	118	1,811
36	Cows and heifers 2 years old and over.....		147,331	1,450	15,367	13,841	575	12,686
37	Bulls 1 year old and over.....		5,548	64	677	349	22	396
38	Total value.....	dollars.....	19,332,870	180,212	1,838,181	1,811,870	61,320	1,640,574
39	<b>Sheep:</b>							
40	Total number.....		18,880	100	2,953	434	4,532	922
41	Lambs under 1 year of age.....		4,748	19	721	125	1,007	317
42	Ewes 1 year old and over.....		11,806	70	2,082	282	2,271	547
43	Rams 1 year old and over.....		692	3	113	22	45	114
44	Wethers 1 year old and over.....		1,544	8	20	5	1,141	13
45	Total value.....	dollars.....	237,023	1,605	80,176	10,144	31,627	17,241
46	<b>Goats:</b>							
47	Total number.....		1,296	5	150	79	2	107
48	Total value.....	dollars.....	23,506	105	1,760	2,216	50	1,763
49	<b>Swine:</b>							
50	Total number.....		104,192	1,354	7,777	11,681	605	9,012
51	Pigs under 6 months old.....		53,757	839	4,450	6,437	283	4,390
52	Sows and gilts for breeding, 6 months old and over.....		17,742	221	1,315	1,352	106	1,643
53	Boars for breeding, 6 months old and over.....		2,042	20	173	210	17	103
54	All other hogs, 6 months old and over.....		30,651	265	1,839	3,682	219	2,786
55	Total value.....	dollars.....	2,339,114	33,599	181,267	272,685	15,714	206,741
<b>POULTRY AND BEES: 1920.</b>								
56	Chickens.....	number.....	1,455,193	35,352	99,907	198,651	5,444	154,763
57	Other poultry.....	number.....	62,284	2,117	3,073	26,856	582	5,545
58	Value of all poultry.....	dollars.....	2,951,001	77,781	167,242	430,355	11,279	333,717
59	<b>Bees.....</b>	number of hives.....	6,573	107	935	695	11	558
60	Total value.....	dollars.....	60,865	819	6,883	6,929	134	5,898
<b>LIVE-STOCK PRODUCTS: 1919.</b>								
61	<b>Dairy products:</b>							
62	Milk produced (as reported).....	gallons.....	68,624,007	711,230	6,250,127	7,872,627	226,667	6,223,172
63	Milk sold.....	gallons.....	55,676,858	549,294	4,244,953	7,093,897	143,015	5,737,093
64	Cream sold.....	gallons.....	310,918	2,002	57,591	14,393	2,202	10,062
65	Butter fat sold.....	pounds.....	506,851	216	64,176	489	284	1,115
66	Butter made on farms.....	pounds.....	2,019,231	11,074	577,465	28,873	8,657	50,397
67	Butter sold.....	pounds.....	1,282,887	3,149	433,033	8,070	3,753	12,717
68	Cheese made on farms.....	pounds.....	60,796	530	7,091	10,406	65	2,785
69	Value of dairy products.....	dollars.....	24,765,522	280,936	1,893,871	2,886,769	73,710	2,586,210
70	Receipts from sale of dairy products.....	dollars.....	24,270,643	274,944	1,799,497	2,869,817	70,649	2,569,473
71	Average production of milk per dairy cow.....	gallons.....	506	513	486	600	410	533
72	<b>Eggs and chickens:</b>							
73	Eggs produced (as reported).....	dozens.....	8,801,467	219,094	542,962	1,264,166	52,714	1,039,467
74	Eggs sold.....	dozens.....	6,022,298	166,675	340,899	926,332	18,318	710,129
75	Chickens raised (as reported).....	number.....	1,857,007	65,762	113,013	227,623	5,115	207,280
76	Chickens sold.....	number.....	996,275	44,367	48,276	150,014	1,592	124,334
77	Value of chickens and eggs produced.....	dollars.....	7,845,727	217,822	449,624	1,084,490	42,126	945,148
78	Receipts from sale of chickens and eggs.....	dollars.....	5,046,646	156,917	253,315	778,103	14,324	626,113
79	<b>Honey and wax:</b>							
80	Honey produced.....	pounds.....	70,769	1,049	12,268	7,220	70	4,821
81	Wax produced.....	pounds.....	1,312	39	33	43		81
82	Value of honey and wax.....	dollars.....	25,360	385	4,309	2,546	25	1,723
83	<b>Wool:</b>							
84	Sheep shorn.....	number.....	14,429	74	2,137	282	3,685	692
85	Wool produced (as reported).....	pounds.....	81,133	415	12,390	1,736	14,055	4,797
86	Value.....	dollars.....	51,008	209	7,428	1,009	9,317	3,013

<sup>1</sup> Value of milk, cream, and butter fat sold, and of butter and cheese made on farms.

COUNTY TABLE III.—DOMESTIC ANIMALS

1	Inclosures reporting domestic animals.....	31,207	1,337	1,931	3,073	193	3,252	896
2	Horses, total number.....	50,775	937	2,145	4,384	102	5,090	969
3	Mules, total number.....	534	3	9	46	2	88	7
4	Asses and burros, total number.....	79	2	1	3		2	
5	Cattle, total number.....	21,500	1,150	1,558	1,364	173	1,476	749
6	Dairy cows.....	15,421	827	1,121	1,014	121	1,099	522
7	Sheep, total number.....	972	7	9	33	25	44	33
8	Goats, total number.....	1,016	10	23	75		120	26
9	Swine, total number.....	51,498	1,299	1,664	3,331	290	4,421	863



1920; AND LIVE-STOCK PRODUCTS, 1919.

	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Suffolk.	Worcester.
<b>DOMESTIC ANIMALS: 1920.</b>								
1 Farms reporting domestic animals.....number.....	1,829	2,616	3,782	22	1,228	1,685	53	5,544
2 Value of all domestic animals.....dollars.....	1,943,800	2,550,250	4,555,170	36,110	1,461,693	1,597,406	155,783	6,889,070
3 <b>Horses:</b>								
4 Total number.....	3,511	4,863	7,144	50	2,087	2,583	242	10,095
5 Colts under 1 year of age.....	96	99	178	—	40	65	4	212
6 Colts 1 year old and under 2 years.....	43	59	46	—	21	6	—	113
7 Mares 2 years old and over.....	1,041	1,678	1,805	19	498	602	101	2,979
8 Geldings 2 years old and over.....	2,297	3,022	5,045	31	1,503	1,735	132	6,887
9 Stallions 2 years old and over.....	34	35	73	—	25	65	5	99
10 Total value.....dollars.....	509,127	723,709	1,080,354	7,110	327,320	365,418	35,091	1,807,906
11 <b>Mules:</b>								
12 Total number.....	48	18	43	—	15	13	—	84
13 Mule colts under 1 year of age.....	—	2	—	—	1	—	—	3
14 Mule colts 1 year old and under 2 years.....	—	15	43	—	13	12	—	76
15 Mules 2 years old and over.....	48	—	—	—	—	—	—	—
16 Total value.....dollars.....	7,190	2,040	5,960	—	1,700	1,380	—	10,100
17 <b>Asses and burros:</b>								
18 Total number.....	2	—	11	—	3	6	—	9
19 Total value.....dollars.....	30	—	820	—	40	115	—	2,230
20 <b>Cattle:</b>								
21 Total number.....	13,980	19,215	28,361	447	8,855	9,113	784	50,816
22 Total value.....dollars.....	1,254,723	1,644,511	3,016,185	26,503	950,368	1,099,453	80,636	4,601,711
23 <b>Beef cattle—</b>								
24 Total number.....	1,048	1,058	735	43	198	354	36	2,336
25 Calves under 1 year of age.....	135	179	116	2	14	45	4	453
26 Heifers 1 year old and under 2 years.....	98	98	67	10	26	46	4	482
27 Cows and heifers 2 years old and over.....	452	422	455	31	136	187	27	954
28 Steers 1 year old and under 2 years.....	90	136	15	—	6	14	—	131
29 Steers 2 years old and over.....	225	162	42	—	5	57	—	220
30 Bulls 1 year old and over.....	48	61	40	—	11	5	—	61
31 Total value.....dollars.....	82,518	82,137	54,744	2,670	10,363	29,367	2,722	168,895
32 <b>Dairy cattle—</b>								
33 Total number.....	12,932	18,157	27,626	404	8,657	8,759	748	48,480
34 Calves under 1 year of age.....	1,847	2,592	2,740	62	706	1,015	43	6,410
35 Heifers 1 year old and under 2 years.....	1,909	2,600	2,908	65	748	1,109	36	6,593
36 Cows and heifers 2 years old and over.....	8,832	12,436	21,250	268	6,977	6,412	655	34,049
37 Bulls 1 year old and over.....	344	529	728	9	226	223	14	1,428
38 Total value.....dollars.....	1,172,205	1,562,374	2,961,441	23,838	964,065	1,070,086	83,914	4,432,816
39 <b>Sheep:</b>								
40 Total number.....	1,012	984	618	200	430	381	30	2,053
41 Lambs under 1 year of age.....	235	312	159	50	122	78	5	509
42 Ewes 1 year old and over.....	737	620	412	140	272	266	22	1,438
43 Rams 1 year old and over.....	29	36	40	10	24	27	—	88
44 Wethers 1 year old and over.....	11	16	1	—	12	10	3	18
45 Total value.....dollars.....	15,638	13,749	11,004	1,800	6,174	4,787	551	31,185
46 <b>Goats:</b>								
47 Total number.....	44	24	266	—	182	30	8	376
48 Total value.....dollars.....	552	282	4,885	—	5,355	492	40	5,578
49 <b>Swine:</b>								
50 Total number.....	6,625	7,104	20,501	34	6,441	5,705	2,427	18,787
51 Pigs under 6 months old.....	3,635	3,986	9,812	23	3,277	3,138	917	8,070
52 Sows and gilts for breeding, 6 months old and over.....	955	821	4,700	6	975	1,078	344	3,345
53 Pears for breeding, 6 months old and over.....	132	143	418	2	116	95	20	377
54 All other hogs, 6 months old and over.....	1,903	2,154	5,571	3	2,073	1,894	1,146	6,005
55 Total value.....dollars.....	156,040	165,959	435,962	692	140,736	125,821	32,865	427,860
<b>POULTRY AND BEES: 1920.</b>								
56 Chickens.....number.....	88,341	109,008	213,124	1,378	85,233	117,327	2,465	265,914
57 Other poultry.....number.....	2,161	2,459	4,957	102	3,376	4,148	211	6,091
58 Value of all poultry.....dollars.....	160,093	209,594	442,654	3,082	187,903	251,623	4,623	520,479
59 <b>Bees.....number of hives.....</b>	493	551	831	—	188	364	11	1,074
60 Total value.....dollars.....	4,427	5,237	9,611	—	2,069	3,832	147	10,248
<b>LIVE-STOCK PRODUCTS: 1919.</b>								
61 <b>Dairy products:</b>								
62 Milk produced (as reported).....gallons.....	3,601,833	5,140,763	10,699,847	99,372	3,850,996	3,146,336	381,304	15,833,678
63 Milk sold.....gallons.....	2,608,317	3,718,133	9,791,898	86,272	3,407,208	2,770,119	369,454	12,912,992
64 Cream sold.....gallons.....	13,320	62,443	21,979	431	6,047	7,056	785	72,850
65 Butter fat sold.....pounds.....	23,132	132,069	19,938	—	7,122	1,578	330	17,685
66 Butter made on farms.....pounds.....	222,376	196,779	96,025	130	30,570	44,299	2,637	399,552
67 Butter sold.....pounds.....	154,059	106,779	30,718	105	5,061	10,647	979	269,771
68 Cheese made on farms.....pounds.....	3,036	4,616	7,129	—	2,895	3,140	—	11,076
69 Value of dairy products.....dollars.....	1,103,236	1,607,236	4,427,356	48,987	1,714,220	1,233,294	198,454	5,602,544
70 Receipts from sale of dairy products.....dollars.....	1,061,964	1,548,688	4,378,067	48,970	1,696,518	1,211,918	197,343	5,418,487
71 Average production of milk per dairy cow.....gallons.....	456	451	532	371	576	539	579	499
72 <b>Eggs and chickens:</b>								
73 Eggs produced (as reported).....dozens.....	439,423	658,803	1,286,685	6,208	485,244	825,205	10,532	1,495,691
74 Eggs sold.....dozens.....	293,030	436,807	889,525	4,950	302,747	564,465	5,321	1,057,245
75 Chickens raised (as reported).....number.....	90,322	126,584	266,371	1,685	147,563	201,795	776	302,461
76 Chickens sold.....number.....	43,989	64,301	144,568	1,188	64,494	121,164	525	142,263
77 Value of chickens and eggs produced.....dollars.....	410,269	560,618	1,140,459	6,963	478,153	727,367	9,186	1,380,521
78 Receipts from sale of chickens and eggs.....dollars.....	249,965	349,141	745,462	5,323	269,346	481,285	4,912	883,196
79 <b>Honey and wax:</b>								
80 Honey produced.....pounds.....	9,803	9,108	5,774	—	687	2,297	40	11,953
81 Wax produced.....pounds.....	326	227	42	—	25	27	—	213
82 Value of honey and wax.....dollars.....	3,578	3,290	2,040	—	244	816	14	4,280
83 <b>Wool:</b>								
84 Sheep shorn.....number.....	553	1,012	415	200	235	282	22	1,598
85 Wool produced (as reported).....pounds.....	3,805	6,451	2,688	800	1,444	1,630	203	10,097
86 Value.....dollars.....	1,912	3,850	1,651	560	804	1,230	169	6,459

NOT ON FARMS OR RANGES: 1920.

1 Inclosures reporting domestic animals.....	2,531	807	5,055	23	2,033	3,104	1,266	5,106
2 Horses, total number.....	3,082	920	9,862	54	3,079	2,670	11,078	6,403
3 Mules, total number.....	47	2	238	—	12	15	53	62
4 Asses and burros, total number.....	8	1	12	—	8	12	28	7
5 Cattle, total number.....	1,523	599	4,050	69	2,076	2,459	643	3,611
6 Dairy cows.....	1,147	412	2,459	44	1,664	1,811	501	2,679
7 Sheep, total number.....	23	3	498	—	117	63	6	111
8 Goats, total number.....	58	10	302	—	143	95	55	104
9 Swine, total number.....	3,643	988	21,943	9	3,019	3,704	177	6,147



COUNTY TABLE IV.—VALUE OF ALL CROPS, AND ACREAGE

		THE STATE.	Barnstable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.	
VALUE OF ALL CROPS.									
1	Total.....	dollars.....	53,700,925	950,437	4,124,325	4,015,172	129,755	4,304,276	5,981,294
2	Cereals.....	dollars.....	3,411,843	28,809	618,128	359,871	25,005	123,357	382,071
3	Other grains and seeds.....	dollars.....	70,247	1,794	4,812	3,925	.....	17,934	6,790
4	Hay and forage.....	dollars.....	20,149,137	123,998	2,407,299	1,436,786	58,827	1,772,325	1,995,695
5	Vegetables.....	dollars.....	15,348,069	195,320	790,942	1,579,453	38,739	1,492,159	1,770,068
6	Fruits.....	dollars.....	9,811,540	600,516	271,203	635,087	8,584	898,349	629,251
7	All other crops.....	dollars.....	4,010,589	.....	36,941	50	.....	152	1,197,419
SELECTED CROPS (acres harvested and production).									
8	Cereals:								
9	Total.....	acres.....	45,861	476	10,783	3,928	474	1,382	5,089
10	Corn.....	bushels.....	1,921,007	15,364	392,807	197,255	14,768	68,844	207,497
11	Oats.....	acres.....	28,953	373	3,017	3,144	307	988	4,208
12	Wheat.....	bushels.....	1,515,933	13,475	182,327	175,418	11,266	57,897	186,655
13	Barley.....	acres.....	9,533	14	5,088	573	119	289	513
14	Wheat.....	bushels.....	287,881	498	158,095	17,533	2,877	8,949	15,037
15	Barley.....	acres.....	1,876	9	746	40	6	22	134
16	Rye.....	bushels.....	33,253	105	14,880	977	85	679	2,406
17	Buckwheat.....	acres.....	509	.....	245	37	2	12	42
18	Other grains and seeds:								
19	Dry edible beans.....	acres.....	11,332	.....	5,239	1,251	40	208	824
20	Dry peas.....	bushels.....	3,062	79	785	118	28	57	149
21	Other grains and seeds:								
22	Dry edible beans.....	acres.....	46,261	1,269	14,265	1,897	290	876	1,951
23	Dry peas.....	bushels.....	1,804	1	862	16	12	14	45
24	Hay and forage:								
25	Total.....	acres.....	23,238	17	16,703	179	210	145	568
26	All tame or cultivated grasses.....	acres.....	1,094	24	71	54	.....	361	116
27	Timothy alone.....	bushels.....	10,087	320	576	477	.....	3,273	1,167
28	Timothy and clover mixed.....	acres.....	21	1	1	6	.....	1	1
29	Clover alone.....	bushels.....	215	10	8	75	.....	6	7
30	Alfalfa.....	acres.....	466,330	3,062	69,730	29,171	1,836	42,409	46,924
31	Other tame or cultivated grasses.....	tons.....	871,573	5,746	102,454	67,112	2,373	72,386	59,569
32	Timothy alone.....	acres.....	391,892	1,784	63,337	22,728	1,066	34,447	40,781
33	Timothy and clover mixed.....	tons.....	499,076	2,399	63,530	33,024	1,234	44,970	51,074
34	Clover alone.....	acres.....	78,407	172	10,880	5,871	194	6,588	4,332
35	Alfalfa.....	tons.....	112,817	184	12,769	8,896	234	9,376	6,733
36	Other tame or cultivated grasses.....	acres.....	159,212	642	21,214	12,142	372	11,570	12,554
37	Wild, salt, or prairie grasses.....	tons.....	221,379	919	24,842	18,381	492	16,894	19,429
38	Small grains cut for hay.....	acres.....	3,513	19	659	315	17	383	255
39	Annual legumes cut for hay.....	tons.....	5,463	44	990	490	15	524	445
40	Silage crops.....	acres.....	1,163	16	155	97	21	81	68
41	Corn cut for forage.....	tons.....	2,604	53	227	216	38	247	266
42	Kafir, sorghum, etc., for forage.....	acres.....	149,597	935	30,429	4,303	462	15,820	23,547
43	Root crops for forage.....	tons.....	156,813	1,199	24,662	5,041	455	17,929	24,201
44	Wild, salt, or prairie grasses.....	acres.....	11,090	613	890	348	260	4,025	440
45	Small grains cut for hay.....	tons.....	12,611	804	650	555	160	4,014	593
46	Annual legumes cut for hay.....	acres.....	16,581	193	1,125	1,340	188	1,107	1,279
47	Silage crops.....	tons.....	32,022	404	2,118	2,583	266	2,043	3,646
48	Corn cut for forage.....	acres.....	1,370	18	155	40	23	123	61
49	Kafir, sorghum, etc., for forage.....	tons.....	2,302	51	243	81	40	220	79
50	Root crops for forage.....	acres.....	23,997	205	2,604	2,620	48	1,358	2,447
51	Other tame or cultivated grasses.....	tons.....	256,053	1,420	29,631	24,012	278	14,596	29,393
52	Wild, salt, or prairie grasses.....	acres.....	17,266	169	1,235	1,885	204	1,101	1,818
53	Small grains cut for hay.....	tons.....	50,668	344	4,758	5,118	256	4,630	4,174
54	Vegetables:								
55	Potatoes (Irish or white).....	acres.....	182	10	12	23	.....	8	19
56	Other vegetables.....	acres.....	345	21	12	43	.....	9	36
57	Miscellaneous crops:								
58	Tobacco.....	acres.....	3,352	70	342	178	47	212	79
59	Maple trees tapped.....	acres.....	18,496	301	1,462	796	139	1,904	574
60	Maple sugar made.....	acres.....	21,558	282	2,401	2,989	76	1,619	1,432
61	Maple sirup made.....	bushels.....	1,885,655	26,069	197,308	290,441	7,645	155,213	150,675
62	Maple sirup made.....	acres.....	24,747	438	613	2,425	65	3,125	2,538
63	Maple sirup made.....	acres.....	9,109	.....	.....	.....	.....	.....	2,349
64	Maple sirup made.....	pounds.....	14,282,589	.....	40	150	.....	20	3,410,258
65	Maple sirup made.....	number.....	252,751	.....	45,479	.....	.....	400	91,950
66	Maple sirup made.....	pounds.....	73,198	.....	12,716	.....	.....	.....	16,206
67	Maple sirup made.....	gallons.....	57,950	.....	10,980	.....	.....	50	22,604
FRUITS.									
68	Small fruits:								
69	Total.....	acres.....	9,628	2,199	131	692	31	333	197
70	Strawberries.....	quarts.....	27,099,119	6,750,683	100,960	2,098,439	32,066	470,232	215,375
71	Raspberries.....	acres.....	1,431	62	32	270	4	151	113
72	Blackberries and dewberries.....	quarts.....	3,151,371	125,736	41,744	1,063,476	3,805	303,972	133,966
73	Cranberries.....	acres.....	481	15	62	26	.....	53	39
74	Currents.....	quarts.....	467,328	15,736	42,737	33,376	70	41,444	40,855
75	Apples.....	acres.....	340	2	32	11	.....	23	32
76	Peaches.....	quarts.....	251,951	2,365	13,547	5,204	130	19,911	31,286
77	Pears.....	acres.....	7,096	2,112	.....	355	27	77	1
78	Plums and prunes.....	quarts.....	22,918,103	6,588,365	.....	978,449	28,001	83,185	320
79	Grapes.....	acres.....	236	8	5	24	.....	29	12
80	Small fruits:								
81	Total.....	quarts.....	266,908	18,249	2,832	13,629	.....	21,630	8,942
82	Apples.....	acres.....	1,010,997	16,447	26,044	68,236	1,792	88,653	76,519
83	Peaches.....	acres.....	1,705,466	12,108	91,726	117,625	1,376	180,162	180,954
84	Pears.....	bushels harvested.....	3,502,244	16,103	125,607	133,139	1,720	399,963	295,612
85	Plums and prunes.....	acres.....	791,771	10,876	21,337	41,624	1,330	59,006	64,959
86	Grapes.....	acres.....	1,218,870	7,597	82,900	62,515	1,009	113,474	143,282
87	Small fruits:								
88	Total.....	bushels harvested.....	3,187,211	14,238	120,096	105,757	1,650	350,830	285,891
89	Apples.....	acres.....	135,426	4,334	488	18,392	247	17,094	5,475
90	Peaches.....	acres.....	346,260	2,438	745	41,261	184	49,410	8,283
91	Pears.....	bushels harvested.....	213,139	783	286	19,235	6	32,434	3,899
92	Plums and prunes.....	acres.....	52,745	765	2,054	6,016	78	9,565	2,071
93	Grapes.....	acres.....	88,030	1,305	4,207	10,238	116	12,412	4,312
94	Small fruits:								
95	Total.....	acres.....	84,486	902	4,694	7,344	50	14,493	4,287
96	Apples.....	acres.....	16,553	312	1,251	1,275	117	1,841	2,887
97	Peaches.....	acres.....	32,764	548	2,577	2,501	49	3,382	3,335
98	Pears.....	bushels harvested.....	13,152	95	452	600	4	1,841	1,380
99	Grapes.....	acres.....	22,691	354	296	4,028	17	1,281	1,634
100	Small fruits:								
101	Total.....	acres.....	81,494	811	2,432	6,440	135	4,067	3,800
102	Apples.....	acres.....	1,009,479	10,179	19,199	85,632	144	74,812	73,672



# AGRICULTURE—MASSACHUSETTS.

## AND PRODUCTION OF PRINCIPAL CROPS: 1919.

		Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Suffolk.	Worcester.
<b>VALUE OF ALL CROPS.</b>									
1	Total.....dollars..	4,237,509	7,438,870	9,096,937	58,985	1,420,512	3,094,395	221,385	8,687,303
2	Cereals.....dollars..	385,078	602,200	200,820	3,778	50,821	121,186	580	505,050
3	Other grains and seeds.....dollars..	6,389	5,307	5,555	.....	1,268	4,391	273	11,809
4	Hay and forage.....dollars..	1,370,191	2,123,632	2,688,402	16,664	664,803	769,720	20,999	4,690,727
5	Vegetables.....dollars..	795,648	1,815,020	3,735,377	9,815	603,872	784,972	171,189	1,664,495
6	Fruits.....dollars..	399,587	507,995	2,468,045	28,728	184,404	1,404,102	19,344	1,760,345
7	All other crops.....dollars..	1,279,616	2,384,516	689	.....	6,344	5	.....	4,877
<b>SELECTED CROPS (acres harvested and production).</b>									
8	Cereals:								
9	Total.....acres..	4,577	6,804	2,347	53	820	1,726	8	6,894
10	.....bushels..	207,737	325,220	109,234	2,125	32,960	64,968	305	282,473
11	Corn.....acres..	3,199	5,438	1,682	41	535	1,399	7	4,620
12	.....bushels..	183,393	293,617	95,175	1,820	27,445	56,607	285	230,593
13	Oats.....acres..	411	555	361	12	138	91	.....	1,359
14	.....bushels..	10,770	19,414	8,595	305	3,340	3,188	.....	38,674
15	Wheat.....acres..	93	227	90	.....	20	58	.....	425
16	.....bushels..	1,198	3,575	1,924	.....	331	1,613	.....	5,480
17	Barley.....acres..	15	35	17	.....	10	15	.....	79
18	.....bushels..	308	939	347	.....	204	254	.....	2,038
19	Rye.....acres..	710	418	155	.....	112	137	1	313
20	.....bushels..	9,050	5,474	2,681	.....	1,494	2,888	20	4,106
21	Buckwheat.....acres..	105	113	36	.....	5	16	.....	79
22	.....bushels..	1,418	2,062	512	.....	66	267	.....	1,101
23	Other grains and seeds:								
24	Dry edible beans.....acres..	60	96	60	.....	20	66	5	152
25	.....bushels..	884	949	871	.....	131	665	50	1,374
26	Dry peas.....acres..	2	.....	.....	.....	.....	7	.....	2
27	.....bushels..	24	.....	.....	.....	.....	68	.....	17
28	Hay and forage:								
29	Total.....acres..	32,960	48,108	57,729	443	13,558	15,694	539	104,167
30	.....tons..	60,851	92,630	113,627	761	31,804	36,284	1,809	194,667
31	All tame or cultivated grasses.....acres..	27,066	38,959	48,440	259	10,407	12,378	350	89,290
32	.....tons..	34,064	50,618	66,302	357	14,732	17,406	495	118,871
33	Timothy alone.....acres..	5,001	4,597	14,856	36	3,469	2,906	187	19,319
34	.....tons..	7,760	7,500	22,032	66	4,997	3,995	389	27,840
35	Timothy and clover mixed.....acres..	10,765	17,319	20,205	27	4,341	6,398	121	41,542
36	.....tons..	13,225	25,561	28,784	53	6,370	9,178	96	57,155
37	Clover alone.....acres..	130	241	423	2	145	190	8	721
38	.....tons..	210	434	629	6	281	287	9	1,099
39	Alfalfa.....acres..	97	92	178	.....	32	81	.....	276
40	.....tons..	229	200	356	.....	54	118	.....	560
41	Other tame or cultivated grasses.....acres..	11,073	16,710	12,783	194	2,420	2,854	34	27,433
42	.....tons..	12,640	16,827	14,501	232	3,030	3,828	51	32,217
43	Wild, salt, or prairie grasses.....acres..	495	544	1,623	23	325	398	18	1,748
44	.....tons..	472	507	1,795	45	381	417	20	2,128
45	Small grains cut for hay.....acres..	1,099	1,479	2,035	33	831	677	80	5,165
46	.....tons..	2,102	2,337	3,890	30	1,413	1,631	44	9,609
47	Annual legumes cut for hay.....acres..	64	94	283	.....	64	81	40	324
48	.....tons..	87	112	686	.....	81	55	50	517
49	Silage crops.....acres..	1,857	2,504	3,105	15	1,198	1,207	84	4,558
50	.....tons..	18,970	25,509	32,811	105	12,635	16,235	1,110	61,398
51	Corn cut for forage.....acres..	1,580	3,040	1,978	106	600	799	14	2,728
52	.....tons..	3,326	6,842	6,269	207	1,962	2,843	41	9,596
53	Kafir, sorghum, etc., for forage.....acres..	14	10	16	.....	6	18	.....	46
54	.....tons..	36	39	43	.....	9	43	.....	51
55	Root crops for forage.....acres..	176	1,418	249	7	127	136	3	308
56	.....tons..	1,294	6,606	1,531	11	591	751	30	2,197
57	Vegetables:								
58	Potatoes (Irish or white).....acres..	1,690	2,144	2,608	17	1,089	1,648	68	3,495
59	.....bushels..	138,976	197,993	232,940	2,630	71,247	150,271	5,950	263,207
60	Other vegetables.....acres..	1,161	2,841	7,175	10	854	883	365	2,254
61	Miscellaneous crops:								
62	Tobacco.....acres..	2,137	4,610	.....	.....	12	.....	.....	1
63	.....pounds..	3,819,864	7,081,089	435	.....	10,183	15	.....	1,530
64	Maple trees tapped.....number..	25,793	84,186	611	.....	12	.....	.....	4,320
65	Maple sugar made.....pounds..	10,251	33,673	15	.....	.....	.....	.....	287
66	Maple sirup made.....gallons..	5,150	17,520	179	.....	4	.....	.....	1,454
<b>FRUITS.</b>									
67	Small fruits:								
68	Total.....acres..	222	168	591	100	167	4,397	11	391
69	.....quarts..	263,677	180,696	1,148,357	359,100	199,550	14,871,294	11,855	393,805
70	Strawberries.....acres..	129	83	252	.....	58	120	1	156
71	.....quarts..	181,871	112,146	649,690	.....	80,612	238,038	876	215,484
72	Raspberries.....acres..	40	41	74	.....	18	36	.....	77
73	.....quarts..	38,387	35,849	83,523	.....	16,307	39,554	516	78,974
74	Blackberries and dewberries.....acres..	35	82	57	.....	16	24	2	74
75	.....quarts..	28,802	30,910	48,778	.....	7,383	12,444	1,635	49,556
76	Cranberries.....acres..	2	2	138	100	59	4,185	.....	38
77	.....quarts..	710	1,516	258,738	359,100	55,091	14,540,831	.....	23,797
78	Currants.....acres..	12	8	68	.....	15	11	8	46
79	.....quarts..	10,624	6,215	92,040	.....	36,345	21,084	8,544	25,974
80	Orchard fruits:								
81	Total.....trees not of bearing age..	58,675	76,827	277,352	.....	36,049	48,660	2,011	233,726
82	.....trees of bearing age..	119,095	140,393	368,780	.....	53,981	63,601	3,560	392,205
83	.....bushels harvested..	183,661	231,506	1,141,806	.....	68,027	77,807	8,693	835,600
84	Apples.....trees not of bearing age..	38,651	67,674	236,474	.....	27,772	35,394	1,532	185,142
85	.....trees of bearing age..	73,095	112,430	277,997	.....	34,131	40,273	2,553	207,514
86	.....bushels harvested..	137,636	213,561	1,069,613	.....	56,405	67,907	8,215	755,412
87	Peaches.....trees not of bearing age..	14,894	4,108	23,630	.....	4,863	8,646	131	33,124
88	.....trees of bearing age..	38,347	16,806	62,430	.....	13,929	15,598	42	90,792
89	.....bushels harvested..	21,173	12,113	49,846	.....	7,247	5,508	37	60,572
90	Pears.....trees not of bearing age..	1,663	2,919	12,292	.....	2,106	2,337	307	10,072
91	.....trees of bearing age..	3,803	5,699	18,200	.....	3,544	5,094	823	18,817
92	.....bushels harvested..	4,207	4,661	17,711	.....	3,178	3,408	419	19,132
93	Plums and prunes.....trees not of bearing age..	1,337	1,155	1,941	.....	745	987	30	2,969
94	.....trees of bearing age..	2,197	3,951	5,138	.....	1,600	1,880	24	5,682
95	.....bushels harvested..	448	648	3,334	.....	897	890	14	2,249
96	Grapes.....vines not of bearing age..	1,732	726	4,744	.....	2,645	1,367	65	3,802
97	.....vines of bearing age..	6,789	7,441	10,936	.....	4,823	3,710	90	30,020
98	.....pounds harvested..	78,141	116,872	137,409	.....	114,431	46,305	1,105	267,078



COUNTY TABLE V.—MORTGAGE DEBT, 1920; AND EXPENDITURES FOR LABOR, FERTILIZER, AND FEED, 1919.

	THE STATE.	Barnstable.	Berkshire.	Bristol.	Dukes.	Essex.	Franklin.
MORTGAGE DEBT REPORTS: 1920.							
For all farms operated by owners:							
Number free from mortgage debt.....	14,055	405	987	1,684	101	1,307	1,304
Number with mortgage debt.....	12,632	167	807	1,344	25	1,046	1,092
Number with no mortgage report.....	1,400	17	120	251	8	99	138
For farms consisting of owned land only:							
Number of farms reporting amount of debt.....	11,663	140	744	1,268	18	933	982
Value of land and buildings.....dollars..	70,745,237	985,100	3,932,435	6,059,585	106,195	6,034,214	5,049,891
Amount of mortgage debt.....dollars..	23,412,188	195,189	1,879,244	2,346,627	30,250	1,914,210	1,675,048
Ratio of debt to value.....per cent..	33.1	19.8	35.1	38.7	28.5	31.7	33.2
Average rate of interest paid.....per cent..	5.7	5.7	5.5	5.9	5.9	5.6	5.5
FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919.							
Labor:							
Farms reporting.....number..	18,322	440	1,435	1,676	85	1,758	1,568
Total expenditure.....dollars..	10,577,123	376,202	661,298	1,162,948	48,527	1,853,587	1,034,474
Amount in cash.....dollars..	13,929,305	344,804	469,832	1,009,955	37,770	1,591,039	884,887
Value of rent and board furnished.....dollars..	2,647,818	31,468	191,466	152,993	10,757	262,548	149,587
Fertilizer:							
Farms reporting.....number..	16,992	368	1,019	2,038	87	1,453	1,653
Amount expended.....dollars..	3,906,733	- 40,364	99,504	328,481	11,114	231,536	608,481
Feed:							
Farms reporting.....number..	27,853	550	2,078	3,154	130	2,583	2,379
Amount expended.....dollars..	20,272,851	351,901	786,200	2,396,263	61,814	2,073,471	1,181,490

	Hampden.	Hampshire.	Middlesex.	Nantucket.	Norfolk.	Plymouth.	Suffolk.	Worcester.
MORTGAGE DEBT REPORTS: 1920.								
For all farms operated by owners:								
Number free from mortgage debt.....	910	1,202	2,053	8	528	985	25	2,556
Number with mortgage debt.....	879	1,451	1,791	5	575	799	16	2,635
Number with no mortgage report.....	119	82	65	6	65	102	13	315
For farms consisting of owned land only:								
Number of farms reporting amount of debt.....	822	1,308	1,685	5	540	733	12	2,473
Value of land and buildings.....dollars..	5,887,275	8,592,310	12,514,280	28,600	4,236,830	3,935,655	217,102	13,166,265
Amount of mortgage debt.....dollars..	1,927,968	2,616,420	4,198,350	9,442	1,444,582	1,318,452	58,600	4,297,806
Ratio of debt to value.....per cent..	32.7	30.5	33.5	33.0	34.1	33.5	27.0	32.6
Average rate of interest paid.....per cent..	5.5	5.5	5.7	6.0	5.8	5.9	5.7	5.6
FARM EXPENDITURES FOR LABOR, FERTILIZER, AND FEED: 1919.								
Labor:								
Farms reporting.....number..	1,130	1,810	2,818	17	832	1,301	64	3,388
Total expenditure.....dollars..	1,241,249	1,277,672	3,763,128	9,425	1,105,787	1,118,360	287,161	2,637,245
Amount in cash.....dollars..	1,037,986	1,147,838	3,245,047	6,810	921,603	1,028,432	266,044	1,937,258
Value of rent and board furnished.....dollars..	203,263	129,834	518,081	2,615	184,184	89,928	21,117	699,987
Fertilizer:								
Farms reporting.....number..	1,215	1,915	2,310	17	704	1,157	51	3,005
Amount expended.....dollars..	540,478	916,291	530,397	1,439	132,075	143,741	28,645	294,187
Feed:								
Farms reporting.....number..	1,775	2,519	4,006	23	1,270	1,789	56	5,541
Amount expended.....dollars..	1,171,373	1,420,804	3,641,739	18,670	1,474,305	1,444,094	156,811	4,093,856



# MANUFACTURES—MASSACHUSETTS.

## EXPLANATION OF TERMS.

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

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

**Period covered.**—The returns relate to the calendar year 1919, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

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

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

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are presented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

**Selected industries.**—The general tables at the end of this section give the principal facts separately for the industries of the state. A selection has been made of certain leading industries of the state for more detailed consideration. Sometimes an industry of great importance has to be omitted because it comprises so few establishments that a detailed presentation would reveal the operations of individual concerns.

**Comparisons with previous censuses.**—Owing to 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. At the census of 1909 the figures for kindred industries were combined. This practice has been followed in compiling the statistics for 1919 and 1914 when placed in com-

parison with those for 1909 and prior years. The comparative summary for 1919, 1914, and 1909, therefore, does not show separately all the industries given for 1919 in the detailed statement for the state.

**Influence of increased prices.**—In comparing figures for cost of materials, value of products, and value added by manufacture in 1919 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

**Persons engaged in the industry.**—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for 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. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

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

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

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

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is not believed to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.



In order to determine as nearly as possible the age distribution of the average number of wage earners for a given state as a whole, the per cent distribution by 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. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average numbers 16 years and over, and under 16, employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

**Salaries and wages.**—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

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

**Capital.**—The instructions on the schedule for securing data relating to capital were as follows:

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

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except

as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

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

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

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

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

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

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

**Fuel.**—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas—natural and manufactured—and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuel is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.



## MANUFACTURES—MASSACHUSETTS.

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

CITY.	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.												VALUE OF PRODUCTS.		
	Total.			18 years of age and over.						Under 16 years of age.					
				Male.			Female.								
				1919	1914	1909	1919	1914	1909	1919	1914	1909			
Adams.....	3,974	3,930	3,991	2,376	2,223	2,026	1,416	1,580	1,478	182	127	487	\$15,076,858	\$6,530,232	\$6,410,054
Amesbury.....	3,173	1,451	.....	2,712	1,264	.....	430	172	.....	31	15	.....	16,309,509	3,551,434	.....
Arlington.....	228	246	283	202	233	259	24	10	22	2	3	2	1,006,207	641,092	695,356
Attleboro.....	6,763	6,058	6,429	4,798	4,434	4,396	1,684	1,542	1,853	281	82	180	34,471,577	13,946,884	15,160,359
Belmont.....	93	.....	.....	81	.....	.....	11	.....	.....	1	.....	.....	374,586	.....	.....
Beverly.....	6,495	4,641	4,487	5,274	3,904	3,679	1,134	717	752	87	20	56	21,829,684	8,774,187	8,652,547
Boston.....	88,759	78,894	73,957	57,736	53,046	49,146	28,057	24,608	22,407	2,966	1,240	2,404	618,821,962	284,802,479	244,793,556
Braintree.....	2,176	.....	.....	1,416	.....	.....	593	.....	.....	107	.....	.....	11,974,839	.....	.....
Brockton.....	18,059	16,246	14,737	11,978	11,708	10,661	5,627	4,283	3,834	454	165	242	117,855,025	61,250,131	46,972,388
Brookline.....	484	335	340	254	266	280	200	38	54	30	1	6	2,243,311	658,502	532,303
Cambridge.....	22,550	16,749	15,260	14,953	11,826	10,630	6,964	4,741	4,211	633	182	419	127,864,901	57,483,949	44,227,395
Chelsea.....	6,580	6,241	5,954	4,576	4,444	4,213	1,753	1,741	1,611	251	56	130	32,536,518	16,971,028	17,002,492
Cilntopee.....	10,063	8,426	7,260	7,684	6,365	4,994	2,114	1,916	2,020	270	145	246	89,772,534	28,869,152	19,219,166
Cilnton.....	4,155	4,064	4,123	2,383	2,300	2,264	1,454	1,640	1,070	318	124	189	15,179,819	6,735,297	7,844,643
Danvers.....	1,474	.....	.....	966	.....	.....	442	.....	.....	66	.....	.....	11,541,839	.....	.....
Dedham.....	463	256	.....	267	193	.....	157	58	.....	39	5	.....	1,737,673	427,690	.....
Easthampton.....	4,142	.....	.....	2,412	.....	.....	1,519	.....	.....	211	.....	.....	37,942,121	.....	.....
Everett.....	4,523	3,226	2,680	3,777	2,717	2,353	611	463	257	135	46	70	35,775,728	13,219,200	8,746,923
Fall River.....	37,015	36,834	37,139	19,335	19,868	20,459	15,476	14,899	14,949	2,404	2,067	1,731	163,240,082	64,063,146	64,145,726
Fitchburg.....	9,907	8,837	8,497	6,697	6,088	5,825	2,780	2,470	2,271	430	279	401	58,164,842	23,983,352	23,262,155
Frammingham.....	4,362	3,982	3,069	2,766	2,460	1,797	1,492	1,477	1,156	104	45	116	18,842,173	8,726,574	6,916,864
Gardner.....	4,036	3,964	3,617	3,161	3,440	3,100	689	481	415	186	43	102	13,599,682	7,449,987	6,489,148
Gloucester.....	2,684	2,814	2,181	1,951	2,082	1,658	683	661	482	50	71	41	18,803,673	8,533,964	7,753,493
Greenfield.....	2,750	1,602	1,251	2,239	1,436	1,043	480	134	139	31	32	69	9,481,352	3,527,101	2,801,011
Haverhill.....	15,783	13,281	11,689	10,139	8,810	7,686	5,354	4,325	3,762	290	146	241	96,270,853	42,409,246	35,370,617
Holyoke.....	17,773	17,493	16,513	9,835	10,219	8,908	6,989	6,751	6,458	949	523	1,149	93,426,775	44,041,155	40,097,224
Lawrence.....	30,319	31,043	30,542	17,946	19,300	17,493	10,900	11,183	11,444	1,473	560	1,005	183,449,096	73,177,803	79,992,668
Leominster.....	5,793	4,929	5,601	3,600	3,638	3,708	1,999	1,202	1,746	89	147	.....	24,628,780	10,838,024	10,530,815
Lowell.....	30,111	29,904	32,333	16,513	16,934	20,222	12,577	12,432	10,883	1,021	538	1,228	137,801,538	66,048,641	59,687,714
Lynn.....	27,355	25,339	27,368	18,852	17,469	19,077	8,188	7,782	8,063	1,315	88	228	160,905,792	69,783,418	71,603,140
Malden.....	4,723	2,850	2,900	2,575	1,622	1,649	1,981	1,171	1,222	167	57	29	22,077,624	8,366,344	8,205,852
Marlborough.....	3,798	3,822	4,265	2,425	2,624	2,787	1,227	1,092	1,201	146	106	277	19,044,907	9,983,632	10,832,277
Medford.....	1,031	559	560	694	480	438	305	77	66	32	8	.....	5,665,723	2,618,893	2,045,289
Melrose.....	1,606	962	1,038	709	446	438	845	400	591	62	26	9	6,083,698	2,499,029	2,524,669
Methuen.....	2,571	1,940	1,572	936	786	653	1,421	1,116	793	214	38	126	14,214,905	4,461,111	3,476,702
Milford.....	1,800	1,749	1,801	1,157	1,274	1,045	578	458	710	74	17	46	8,408,531	4,028,492	4,442,140
Natick.....	1,463	1,347	.....	1,089	1,042	.....	361	300	.....	13	5	.....	7,393,397	4,566,253	.....
New Bedford.....	41,630	33,343	26,566	23,906	19,282	15,700	15,896	13,012	9,516	1,828	1,049	1,356	210,773,312	65,575,005	53,237,839
Newburyport.....	3,930	3,349	3,215	2,418	2,135	2,083	1,438	1,171	1,035	104	43	97	20,595,015	8,245,998	6,931,049
Newton.....	2,547	2,154	2,174	1,691	1,472	1,604	791	669	520	65	13	50	15,524,597	5,822,853	6,278,714
North Adams.....	6,023	5,288	5,414	3,891	3,509	3,508	1,899	1,620	1,560	233	159	346	36,203,767	10,922,575	10,314,847
Northampton.....	3,532	3,446	3,150	2,119	2,225	2,012	1,216	1,092	977	197	129	161	17,960,620	8,580,730	6,998,992
Northbridge.....	3,871	.....	.....	3,185	.....	.....	534	.....	.....	162	.....	.....	13,848,897	.....	.....
Norwood.....	2,835	.....	.....	2,221	.....	.....	570	.....	.....	44	.....	.....	20,359,242	.....	.....
Peabody.....	8,013	5,485	4,860	7,156	5,126	4,270	787	356	518	70	3	62	52,906,722	18,441,906	15,548,732
Pittsfield.....	8,570	7,490	6,353	6,267	5,455	4,508	2,124	1,973	1,679	179	62	166	41,613,356	22,241,237	15,215,202
Plymouth.....	2,971	2,845	2,512	2,299	1,872	2,124	1,047	673	665	25	269	123	31,319,553	13,904,545	11,618,020
Quincy.....	19,653	5,783	5,492	19,103	5,353	4,769	521	409	560	29	21	163	68,535,406	12,097,452	10,805,403
Revere.....	126	80	101	110	71	98	15	9	3	1	.....	.....	767,204	349,696	407,336
Salem.....	5,672	5,294	6,338	3,422	3,587	4,070	2,048	1,627	1,985	202	80	283	30,437,957	13,652,586	14,576,276
Saugus.....	126	.....	.....	95	.....	.....	24	.....	.....	6	.....	.....	1,157,215	.....	.....
Somerville.....	0,111	5,429	5,280	5,569	5,180	4,841	476	219	370	77	30	69	99,558,513	43,971,291	38,686,927
Southbridge.....	5,329	4,332	4,037	3,009	2,736	2,680	2,066	1,421	1,183	254	175	174	18,252,314	7,366,430	6,289,131
Springfield.....	18,429	14,240	11,855	13,331	10,976	8,715	4,613	3,136	2,726	485	128	414	98,332,955	44,428,854	31,772,815
Taunton.....	8,981	7,371	7,407	6,318	5,441	5,345	2,322	1,823	1,820	341	107	242	48,330,638	15,885,812	15,379,821
Wakefield.....	1,869	2,008	2,230	1,138	1,241	1,200	698	747	994	33	20	36	8,977,010	6,067,650	5,627,102
Waltham.....	8,009	6,465	6,037	4,995	4,305	3,580	2,969	2,138	2,369	105	22	88	20,878,515	10,236,912	7,814,178
Watertown.....	8,420	4,787	4,335	5,351	3,134	2,817	2,912	1,642	1,872	157	11	146	47,297,519	14,764,326	11,545,555
Webster.....	3,849	3,246	3,019	2,408	2,096	1,879	1,097	972	901	344	178	239	28,400,765	9,233,919	10,027,086
Westfield.....	3,243	3,584	3,060	2,488	3,026	2,390	664	517	594	91	41	70	14,278,973	8,420,439	7,361,528
West Springfield.....	2,791	2,209	.....	2,482	1,876	.....	301	332	.....	8	1	.....	12,389,556	5,039,953	.....
Weymouth.....	2,146	2,074	1,991	1,389	1,505	1,398	637	551	554	120	18	39	16,836,997	8,251,041	6,027,168
Winchester.....	1,112	1,048	.....	985	952	.....	122	96	.....	5	.....	.....	9,697,701	5,159,479	.....
Winthrop.....	61	16	7	30	12	7	31	4	.....	.....	.....	.....	330,234	77,994	42,168
Woburn.....	2,011	1,665	1,663	1,705	1,463	1,528	284	98	.....	111	22	14	13,980,185	5,517,806	5,408,061
Worcester.....	38,673	29,452	28,221	29,705	22,402	21,355	7,944	6,646	5,745	1,024	404	1,121	208,705,773	82,829,356	77,147,884

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

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	695,713	626,776	555,750	90.9	98.9	92.4	July.....	715,599	595,609	573,462	93.5	94.0	93.6
February.....	677,894	628,535	572,613	88.4	99.2	93.5	August.....	726,537	588,703	581,008	94.9	92.9	94.8
March.....	680,825	633,583	578,519	88.9	100.0	94.6	September.....	736,391	589,194	594,686	96.2	93.0	97.1
April.....	679,325	628,244	576,618	88.7	99.2	94.1	October.....	741,911	590,992	601,533	96.9	93.3	98.2
May.....	689,490	619,082	576,379	90.0	97.7	94.1	November.....	751,909	657,141	604,466	98.2	92.7	98.7
June.....	705,382	611,928	576,055	92.1	96.6	94.0	December.....	765,746	580,489	612,615	100.0	91.6	100.0



Size of establishments, by value of products (Table 11).—At the censuses of 1909 and 1914 establishments with products valued at "\$100,000 to \$1,000,000" constituted one group, but at the census of 1919 this group was subdivided into "\$100,000 to \$500,000" and "\$500,000 to \$1,000,000." Separate figures for the number of establishments and value of products have been compiled, however, from the returns for 1914. The table, therefore, gives combined figures for these two groups for all items for 1909, and in the case of average number of wage earners and value added by manufacture for 1914.

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

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

Character of ownership (Table 14).—The predominance of corporate ownership is clearly brought out in this table. Although corporations owned but 39.5 per cent\* of the number of establishments in the state in 1919, they reported 87.1 per cent of the average number of wage earners and 86.8 per cent of the total value of products. During the five-year period 1914 to 1919, the average number of wage earners in corporations increased 121,072, or 24.2 per cent, and the value of products, \$2,136,719,997, or 158.7 per cent.

Manufactures, by population groups, in cities of 10,000 inhabitants or more (Table 15).—This table

shows that the combined number of establishments in the 66 cities in 1919 represented 83.5 per cent of the total in the state. They reported in that year 85.4 per cent of the average number of wage earners, and 86.3 per cent of the value of products and also of the value added by manufacture.

Principal industries in each of the 13 cities in the state having more than 50,000 inhabitants, with per cent of total for state (Table 16).—This table presents the principal industries in these cities, the figures being given for those which can be shown without disclosing the operations of individual establishments.

Number and horsepower of types of prime movers (Table 17).—The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 333,156 horsepower, or 23.9 per cent. This increase was wholly in rented power which increased 348,268 horsepower, or 161.1 per cent; while owned power decreased 15,112 horsepower, or 1.3 per cent, during the five-year period.

Fuel consumed (Table 18).—This table shows the principal kinds of fuel used by the manufacturing plants in the state in 1919 and 1914, and gives separately for 1919 the amounts consumed by a number of important industries which use considerable quantities of fuel. Of the anthracite coal, the largest quantity shown for any single industry was 116,577 tons, or 16.8 per cent, used in the manufacture of gas. This industry was also the largest consumer of fuel oils, with 1,785,175 barrels, or 48.7 per cent, and the second largest consumer of bituminous coal and of coke, with 10.2 per cent and 23.9 per cent, respectively. The largest consumption of bituminous coal was in the cotton-goods industry, 1,089,589 tons, or 19.3 per cent; while steam-railroad repair shops were the largest consumers of coke, with 200,271 tons, or 40 per cent.

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

	MANUFACTURING INDUSTRIES.					PER CENT OF INCREASE. <sup>1</sup>			
	1919	1914	1909	1904	1899	1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	11,906	12,013	11,684	10,723	10,929	-0.9	2.8	9.0	-1.9
Persons engaged.....	812,521	676,642	644,399	532,481	( <sup>2</sup> )	20.1	5.0	21.0	.....
Proprietors and firm members.....	9,451	10,710	11,194	11,268	( <sup>2</sup> )	-11.8	-4.3	-0.6	.....
Salaries employees.....	89,234	59,234	48,646	32,824	25,256	50.6	21.8	48.2	30.0
Wage earners (average number).....	713,836	606,698	584,559	488,399	438,234	17.7	3.8	19.7	11.4
Primary horsepower.....	1,729,878	1,396,722	1,175,071	938,007	796,061	23.9	18.9	25.3	17.8
Capital.....	\$2,947,108,527	\$1,648,960,733	\$1,279,685,558	\$965,948,887	\$781,867,715	90.3	21.0	32.5	23.5
Salaries and wages.....	950,058,742	425,024,201	364,452,007	272,043,570	224,758,018	123.5	16.6	34.0	21.0
Salaries.....	183,435,405	83,714,684	63,278,543	39,654,624	29,479,742	119.1	32.3	59.6	34.5
Wages.....	766,623,337	341,309,517	301,173,464	232,388,946	195,278,276	124.6	13.3	29.6	19.0
Paid for contract work.....	22,744,566	9,834,358	12,092,607	6,568,988	( <sup>2</sup> )	131.3	-18.7	84.1	.....
Rent and taxes.....	163,471,020	30,376,744	21,295,364	* 12,320,129	( <sup>2</sup> )	438.1	42.6	.....	.....
Cost of materials.....	2,260,713,036	931,388,793	830,764,943	626,410,431	498,655,033	142.7	12.1	32.6	25.6
Value of products.....	4,011,181,632	1,641,373,047	1,490,529,386	1,124,092,051	907,626,439	144.4	10.1	32.6	23.8
Value added by manufacture.....	1,750,468,496	709,989,254	659,764,443	497,681,620	408,971,406	146.5	7.6	32.6	21.7

<sup>1</sup> A minus sign (-) denotes decrease.<sup>2</sup> Figures not available.<sup>3</sup> Exclusive of internal revenue.<sup>4</sup> Value of products less cost of materials.



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

COUNTY.	Number of establishments.	WAGE EARNERS.		Rent and taxes.	Cost of materials.	Value of products.	Value added by manufacture.	Primary horse-power.
		Average number.	Wages.					
The state.....	11,906	713,836	\$766,623,337	\$163,471,020	\$2,260,713,036	\$4,011,181,532	\$1,750,408,496	1,720,878
Barnstable.....	47	720	993,291	21,184	4,093,542	5,515,139	1,421,507	1,306
Berkshire.....	301	22,505	23,127,671	5,131,556	61,925,745	114,805,837	52,890,094	77,662
Bristol.....	1,039	102,466	96,469,812	28,869,852	284,876,770	495,424,479	210,748,709	340,311
Dukes.....	17	26	25,152	2,025	31,668	80,432	48,764	107
Essex.....	1,754	114,475	130,033,899	26,240,501	380,559,270	660,697,936	280,138,716	245,772
Franklin.....	207	6,848	7,452,832	1,205,501	11,489,553	27,808,057	16,318,504	30,407
Hampden.....	869	62,235	66,388,002	13,571,618	182,924,346	355,359,435	172,435,089	217,689
Hampshire.....	193	11,410	10,621,007	3,764,391	48,309,901	76,198,635	27,798,734	43,024
Middlesex.....	1,787	119,634	122,967,235	23,035,917	409,237,191	689,166,400	276,929,209	262,683
Nantucket.....	9	15	16,613	3,309	36,604	85,038	49,434	195
Norfolk.....	505	39,154	56,089,659	5,580,626	99,629,102	198,568,273	98,939,171	65,963
Plymouth.....	453	33,497	37,925,101	7,724,431	140,925,269	221,908,316	80,983,047	46,262
Suffolk.....	3,255	98,111	107,548,579	27,429,327	368,995,540	669,250,375	290,254,835	120,745
Worcester.....	1,470	102,740	107,875,484	20,860,782	267,789,537	506,313,130	233,523,593	271,752

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

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent distribution.	Amount (expressed in thousands of dollars).	Per cent distribution.	Amount (expressed in thousands of dollars).	Per cent distribution.			Average number.	Per cent distribution.	Amount (expressed in thousands of dollars).	Per cent distribution.	Amount (expressed in thousands of dollars).	Per cent distribution.
All industries.....	11,906	713,836	100.0	4,011,182	100.0	1,750,468	100.0	Ordnance and accessories.....	4	1,805	0.3	18,347	0.5	11,919	0.7
Cotton goods.....	191	122,499	17.2	596,687	14.9	237,012	13.5	Chemicals.....	27	2,483	0.3	17,305	0.4	9,204	0.5
Boots and shoes, not including rubber boots and shoes.....	493	80,166	11.2	442,466	11.0	173,115	9.9	Coffee and spice, roasting and grinding.....	23	512	0.1	16,978	0.4	2,978	0.2
Worsted goods.....	71	36,206	5.1	237,443	5.9	86,827	5.0	Brass, bronze, and copper products	72	2,832	0.4	16,943	0.4	7,576	0.4
Leather, tanned, curried, and finished.....	131	15,180	2.1	129,595	3.2	47,578	2.7	Motorcycles, bicycles, and parts...	8	3,000	0.4	16,000	0.4	7,591	0.4
Foundry and machine-shop products.....	574	27,712	3.9	111,853	2.8	72,643	4.2	Boxes, paper and other, not elsewhere specified.....	102	4,711	0.7	15,666	0.4	8,208	0.5
Slaughtering and meat packing.....	40	4,307	0.6	110,238	2.8	9,003	0.5	Stationery goods, not elsewhere specified.....	30	3,306	0.5	15,162	0.4	7,897	0.5
Woolen goods.....	111	17,568	2.5	105,183	2.6	43,090	2.5	Boxes, wooden packing, except cigar boxes.....	75	3,232	0.5	15,051	0.4	6,679	0.4
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	47	9,406	1.3	93,877	2.3	46,301	2.6	Suspenders, garters, and elastic woven goods.....	29	2,065	0.4	14,972	0.4	6,621	0.4
Electrical machinery, apparatus, and supplies.....	110	23,889	3.3	91,039	2.3	60,102	3.4	Liquors, malt.....	19	1,323	0.2	14,713	0.4	10,526	0.6
Paper and wood pulp.....	78	12,960	1.8	87,160	2.2	33,396	1.9	Automobile bodies and parts.....	88	3,541	0.5	14,483	0.4	7,771	0.4
Boot and shoe cut stock.....	182	4,631	0.6	86,214	2.2	16,732	1.0	Belt and hose, rubber.....	3	2,441	0.3	13,800	0.3	6,077	0.3
Dyeing and finishing textiles, exclusive of that done in textile mills.....	62	12,321	1.7	75,262	1.9	31,052	1.8	Carpets and rugs, other than rag.....	10	3,134	0.4	13,594	0.3	5,573	0.3
Confectionery and ice cream.....	278	11,585	1.6	68,597	1.7	28,543	1.6	Paper goods, not elsewhere specified.....	44	1,909	0.3	13,552	0.3	4,972	0.3
Bread and other bakery products.....	1,309	8,583	1.2	66,017	1.7	25,450	1.5	Steam fittings and steam and hot-water heating apparatus.....	23	3,521	0.5	13,473	0.3	8,028	0.5
Textile machinery and parts.....	116	17,413	2.4	65,901	1.6	42,424	2.4	Iron and steel forgings, not made in steel works or rolling mills.....	14	2,172	0.3	13,269	0.3	8,021	0.5
Knit goods.....	77	12,751	1.8	52,424	1.3	21,252	1.2	Emery and other abrasive wheels.....	14	2,443	0.3	13,113	0.3	8,105	0.5
Printing and publishing, newspapers and periodicals.....	412	5,885	0.8	46,891	1.2	30,328	1.7	Canning and preserving, fish.....	22	1,404	0.2	12,763	0.3	3,339	0.2
Boot and shoe findings.....	254	5,896	0.8	44,357	1.1	15,971	0.9	Lumber, planing-mill products, not including planing mills connected with sawmills.....	146	2,245	0.3	12,625	0.3	5,412	0.3
Boots and shoes, rubber.....	8	13,092	1.8	44,308	1.1	20,687	1.5	Automobiles.....	8	989	0.1	12,548	0.3	2,978	0.2
Printing and publishing, book and job.....	768	7,634	1.1	41,627	1.0	28,692	1.6	Optical goods.....	29	4,082	0.6	12,038	0.3	8,632	0.5
Clothing, men's.....	207	6,856	1.0	41,475	1.0	17,875	1.0	Tobacco, cigars and cigarettes.....	232	2,046	0.4	11,560	0.3	6,704	0.4
Jewelry.....	165	6,786	1.0	34,317	0.9	16,452	0.9	Envelopes.....	13	1,617	0.3	10,859	0.3	4,319	0.2
Silk goods, including throwsters.....	21	6,697	0.9	34,194	0.9	14,060	0.9	Pumps, steam.....	7	2,280	0.3	10,336	0.3	5,648	0.3
Iron and steel, steel works and rolling mills.....	11	3,684	0.5	30,970	0.8	11,733	0.7	Felt goods.....	15	1,086	0.2	10,286	0.3	3,647	0.2
Clothing, women's.....	258	6,271	0.9	30,428	0.8	12,454	0.7	Druggists' preparations.....	24	1,699	0.2	9,990	0.3	5,037	0.3
Chocolate and cocoa products.....	6	2,007	0.3	30,327	0.8	6,338	0.4	Food preparations, not elsewhere specified.....	81	848	0.1	9,603	0.3	3,531	0.2
Tools, not elsewhere specified.....	117	7,226	1.0	29,159	0.7	21,171	1.2	Patent medicines and compounds.....	97	604	0.1	9,108	0.2	6,051	0.3
Cordage and twine.....	13	2,743	0.4	28,086	0.7	8,655	0.5	Silversmithing and silverware.....	18	1,576	0.2	8,485	0.2	4,654	0.3
Wire.....	5	2,203	0.3	24,552	0.6	12,679	0.7	Copper, tin, and sheet-iron work.....	137	1,533	0.3	8,316	0.2	5,088	0.3
Gas, illuminating and heating.....	51	2,654	0.4	24,231	0.6	13,458	0.8	Cotton small wares.....	40	1,651	0.2	8,250	0.2	3,005	0.2
Furniture.....	161	6,342	0.9	23,689	0.6	13,031	0.7	Bookbinding and blank-book making.....	94	2,936	0.4	8,180	0.2	5,147	0.3
Machine tools.....	46	6,471	0.9	23,443	0.6	16,534	0.9	Mineral and soda waters.....	172	768	0.1	8,177	0.2	4,097	0.2
Cars and general shop construction and repairs by steam-railroad companies.....	14	7,724	1.1	22,638	0.6	12,347	0.7	Musical instruments, pianos.....	14	2,228	0.3	8,123	0.2	4,699	0.3
Cutlery and edge tools.....	51	3,988	0.6	19,673	0.5	14,261	0.8	Fancy articles, not elsewhere specified.....	39	1,929	0.3	7,932	0.2	3,443	0.2
Soap.....	27	1,008	0.1	18,730	0.5	7,558	0.4								



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

INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		INDUSTRY.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent distribution.	Amount (expressed in thousands of dollars).	Per cent distribution.	Amount (expressed in thousands of dollars).	Per cent distribution.			Average number.	Per cent distribution.	Amount (expressed in thousands of dollars).	Per cent distribution.	Amount (expressed in thousands of dollars).	Per cent distribution.
Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.....	25	1,537	0.2	7,853	0.2	4,012	0.2	Dyestuffs and extracts—natural...	27	165	(1)	5,812	0.1	1,336	0.1
House-furnishing goods, not elsewhere specified.....	54	1,081	0.2	7,708	0.2	2,579	0.1	Sporting and athletic goods.....	14	1,397	0.2	5,774	0.1	2,771	0.2
Grease and tallow, not including lubricating greases.....	24	825	0.1	7,323	0.2	2,488	0.1	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	11	1,471	0.2	5,763	0.1	2,613	0.1
Marble and stone work.....	239	1,936	0.3	7,125	0.2	4,606	0.3	Oilcloth, enameled.....	4	342	(1)	5,747	0.1	1,405	0.1
Blacking, stains, and dressings....	56	668	0.1	7,108	0.2	2,936	0.2	Lumber and timber products.....	244	1,582	0.2	5,733	0.1	3,607	0.2
Brushes.....	30	1,613	0.2	6,857	0.2	3,524	0.2	Firearms.....	5	2,253	0.3	5,645	0.1	4,578	0.3
Corsets.....	11	1,555	0.2	6,764	0.2	3,397	0.2	Stoves and hot-air furnaces.....	15	1,386	0.2	5,577	0.1	3,906	0.2
Roofing materials.....	8	695	0.1	6,706	0.2	2,712	0.2	Wool shoddy.....	23	623	0.1	5,515	0.1	1,815	0.1
Structural ironwork, not made in steel works or rolling mills.....	55	1,188	0.2	6,687	0.2	3,340	0.2	Hats, straw.....	13	1,490	0.2	5,485	0.1	2,505	0.1
Surgical appliances.....	14	609	0.1	6,572	0.2	2,226	0.1	Sausage, not made in slaughtering and meat-packing establishments.....	56	306	(1)	5,296	0.1	1,074	0.1
Glue, not elsewhere specified.....	13	826	0.1	6,451	0.2	2,822	0.2	Carriages and sleds, children's....	13	1,449	0.2	5,264	0.1	2,703	0.2
Pickles, preserves, and sauces.....	33	480	0.1	6,254	0.2	2,245	0.1	Combs and hairpins, not made from metal or rubber.....	26	1,766	0.3	5,179	0.1	2,645	0.2
Varnishes.....	14	316	(1)	6,159	0.2	2,553	0.1	Hats, goods.....	4	1,219	0.2	5,178	0.1	1,849	0.1
Automobile repairing.....	279	1,582	0.2	5,973	0.1	3,929	0.2	Shirts.....	12	1,090	0.2	5,108	0.1	2,243	0.1
Ammunition.....	6	2,449	0.3	5,961	0.1	4,794	0.3	All other industries <sup>2</sup> .....	2,215	74,345	10.4	370,904	9.2	171,557	9.8
Millinery and lace goods, not elsewhere specified.....	60	1,306	0.2	5,959	0.1	2,806	0.2								
Lasts.....	31	1,299	0.2	5,886	0.1	4,049	0.2								

<sup>1</sup> Less than one-tenth of 1 per cent.<sup>2</sup> Among the industries for which statistics can not be shown separately without the possibility of disclosing the operations of individual establishments are six having products in excess of some for which figures are shown in the table. These industries are as follows: "Cars, steam-railroad, not including operations of railroad companies"; "jute goods"; "labels and tags"; "shipbuilding, steel"; "sugar, refining, not including beet sugar"; and "watches."

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

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.		CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.	
					Male.	Female.						Male.	Female.
All classes.....	1919	812,521	556,185	256,336	68.5	31.5	Clerks and other subordinate salaried employees.....	1919	63,556	32,788	30,768	51.6	48.4
	1914	676,042	470,494	205,548	69.5	30.5		1914	44,762	28,620	16,142	63.9	36.1
	1909	644,399	447,267	197,132	69.4	30.6		1909	35,855	22,914	12,941	63.9	36.1
Proprietors and officials.....	1919	35,129	33,391	1,738	95.1	4.9	Wage earners (average number).....	1919	713,836	490,006	223,830	68.6	31.4
	1914	25,182	23,982	1,200	95.2	4.8		1914	606,098	417,892	188,206	68.9	31.1
	1909	23,985	23,181	804	96.6	3.4		1909	584,559	401,172	183,387	68.6	31.4
Proprietors and firm members..	1919	9,451	8,944	507	94.6	5.4	16 years of age and over.....	1919	690,400	478,449	211,951	69.3	30.7
	1914	10,710	10,122	588	94.5	5.5		1914	594,386	411,709	182,677	69.3	30.7
	1909	11,194	10,695	499	95.5	4.5		1909	563,824	390,544	173,280	69.3	30.7
Salaried officers of corporations..	1919	7,105	6,787	318	95.5	4.5	Under 16 years of age.....	1919	23,436	11,557	11,879	49.3	50.7
	1914	5,250	5,071	179	96.6	3.4		1914	12,312	6,188	6,124	50.2	49.8
	1909	4,615	4,481	134	97.1	2.9		1909	20,735	10,628	10,107	51.3	48.7
Superintendents and managers..	1919	18,573	17,660	913	95.1	4.9							
	1914	9,222	8,789	433	95.3	4.7							
	1909	8,176	8,005	171	97.9	2.1							



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

INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.			INDUSTRY.	Cen- sus year.	Wage earners (aver- age num- ber).	PER CENT OF TOTAL.		
			16 years of age and over.		Un- der 16 years of age.				10 years of age and over.		Un- der 10 years of age.
			Male.	Fe- male.					Male.	Fe- male.	
All industries.....	1919	713,836	67.0	29.7	3.3	Furniture.....	1919	6,342	87.4	9.9	2.6
	1914	806,698	67.9	30.1	2.0		1914	6,813	90.1	8.8	1.1
	1909	584,559	66.8	29.6	3.5	Gas, illuminating and heating.....	1919	2,654	99.8	.....	0.2
Ammunition <sup>1</sup> .....	1919	2,449	35.2	62.8	2.0		1914	3,182	97.9	2.1	.....
Automobile bodies and parts.....	1919	3,541	95.3	3.6	1.1	Iron and steel, steel works and rolling mills..	1919	3,084	96.1	3.7	0.1
	1914	1,341	97.9	1.9	0.1		1914	2,889	100.0	.....	.....
Belting and hose, rubber <sup>1</sup> .....	1919	2,441	83.6	15.0	1.4	Iron and steel, forgings, not made in steel works or rolling mills.	1919	2,172	97.4	1.9	0.6
Bookbinding and blank-book making.....	1919	2,936	45.7	47.7	6.5		1914	688	97.1	2.3	0.6
	1914	3,317	52.1	46.8	1.1	Jewelry.....	1919	6,786	61.9	34.6	3.5
Boot and shoe cut stock.....	1919	4,631	72.3	23.5	4.1		1914	6,505	66.5	28.7	4.9
	1914	3,781	71.4	27.4	1.2	Knit goods.....	1919	12,751	27.5	67.8	4.6
Boot and shoe findings.....	1919	5,896	63.1	33.6	3.4		1914	10,635	25.9	72.2	1.9
	1914	4,889	66.5	31.6	1.9	Leather, tanned, curried, and finished.....	1919	15,180	90.8	8.2	1.0
Boots and shoes, not including rubber boots and shoes.	1919	80,166	60.3	35.7	4.0		1914	10,164	98.2	1.6	0.3
	1914	76,944	64.7	33.7	1.6	Lumber, planing-mill products, not includ- ing planing mills connected with sawmills.	1919	2,245	98.4	0.4	1.1
Boots and shoes, rubber.....	1919	13,062	57.3	40.1	2.6		1914	3,423	98.7	0.6	0.6
	1914	8,087	61.0	37.9	1.1	Motorcycles, bicycles, and parts.....	1919	3,000	84.9	12.3	2.8
Boxes, paper and other, not elsewhere speci- fied.	1919	4,711	33.2	58.0	8.8		1914	2,135	98.5	1.0	0.5
	1914	4,244	32.9	63.6	3.5	Musical instruments, pianos.....	1919	2,228	92.0	5.3	2.7
Boxes, wooden packing, except cigar boxes..	1919	3,232	86.6	11.2	2.2		1914	2,352	96.2	2.3	1.5
	1914	2,995	92.0	6.4	1.6	Optical goods.....	1919	4,082	52.0	42.7	5.3
Brass, bronze, and copper products.....	1919	2,832	97.4	1.9	0.7		1914	2,355	70.7	25.0	4.3
	1914	1,620	97.5	2.0	0.5	Paper and wood pulp.....	1919	12,960	73.7	25.9	0.4
Bread and other bakery products.....	1919	8,583	71.9	26.5	1.6		1914	13,401	69.3	30.5	0.1
	1914	8,083	75.5	23.2	1.2	Printing and publishing, book and job.....	1919	7,634	70.4	26.4	3.3
Carpets and rugs, other than rag.....	1919	3,134	53.3	38.3	8.4		1914	7,062	70.7	27.1	2.3
	1914	5,319	53.2	43.3	3.5	Printing and publishing, newspapers and periodicals.	1919	5,885	82.4	14.1	3.6
Cars and general shop construction and repairs by steam-railroad companies.	1919	7,724	99.2	0.7	0.1		1914	6,032	80.9	11.5	1.6
	1914	6,204	99.6	0.3	0.1	Pumps, steam.....	1919	2,280	94.9	5.0	0.1
Chemicals.....	1919	2,483	80.4	19.3	0.4		1914	1,194	97.4	2.4	0.2
	1914	1,395	92.7	6.7	0.6	Rubber tires, tubes, and rubber goods, not elsewhere specified.	1919	9,406	85.0	14.0	1.0
Chocolate and cocoa products.....	1919	2,007	69.6	28.9	1.5		1914	4,743	83.2	14.8	2.0
	1914	943	70.6	29.1	0.3	Silk goods, including throwsters.....	1919	5,697	33.6	59.9	6.4
Clothing, men's.....	1919	6,856	43.3	55.5	1.1		1914	4,495	30.9	66.6	2.5
	1914	5,700	47.7	51.6	0.7	Slaughtering and meat packing.....	1919	4,307	97.7	2.1	0.2
Clothing, women's.....	1919	6,271	20.0	77.4	2.7		1914	3,233	98.3	1.1	0.1
	1914	6,076	24.5	74.7	0.7	Stationery goods, not elsewhere specified....	1919	3,305	37.8	58.5	3.7
Confectionery and ice cream.....	1919	11,585	31.0	58.2	10.9		1914	2,467	42.0	56.5	1.5
	1914	7,250	30.1	65.7	4.2	Steam fittings and steam and hot-water heating apparatus.	1919	3,521	94.5	5.2	0.3
Cordage and twine <sup>1</sup> .....	1919	2,743	70.3	26.8	2.9		1914	3,175	97.3	2.7	(*)
Cotton goods.....	1919	122,490	51.0	43.2	5.8	Suspenders, garters, and elastic woven goods.	1919	2,965	31.3	64.7	4.0
	1914	112,608	52.1	44.0	3.9		1914	2,028	35.1	60.7	4.2
Cutlery and edge tools.....	1919	3,988	65.7	32.1	2.3	Tobacco, cigars and cigarettes.....	1919	2,946	73.2	26.7	0.1
	1914	1,947	77.7	20.4	1.9		1914	3,895	72.9	26.9	0.3
Dyeing and finishing textiles, exclusive of that done in textile mills.	1919	12,321	75.5	22.7	1.8	Tools, not elsewhere specified.....	1919	7,226	86.7	11.1	2.2
	1914	11,437	80.7	17.5	1.9		1914	4,533	93.5	5.5	1.1
Electrical machinery, apparatus, and sup- plies.	1919	23,889	74.4	24.8	0.8	Wire.....	1919	5,203	93.6	5.4	0.9
	1914	17,125	80.0	19.5	0.5		1914	2,899	96.8	3.1	0.1
Emery and other abrasive wheels.....	1919	2,443	89.7	9.5	0.8	Woolen goods.....	1919	17,568	68.4	29.3	2.3
	1914	902	95.7	4.1	0.2		1914	13,844	67.8	30.9	1.3
Firearms.....	1919	2,253	95.0	3.2	1.8	Worsted goods.....	1919	36,266	51.8	41.9	6.3
	1914	2,161	97.4	1.2	1.3		1914	39,533	55.8	40.9	3.3
Foundry and machine-shop products <sup>2</sup> .....	1919	51,680	94.7	4.5	0.8	All other industries.....	1919	129,157	74.8	22.9	2.4
	1914	32,687	97.8	1.6	0.6		1914	115,446	74.6	23.7	1.7

<sup>1</sup> Not shown separately in 1914.

<sup>2</sup> Includes "iron and steel, tempering and welding"; "machine tools"; and "textile machinery and parts."

<sup>3</sup> Less than one-tenth of 1 per cent.



## MANUFACTURES—MASSACHUSETTS.

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

CITY.	AVERAGE NUMBER OF WAGE EARNERS IN MANUFACTURING INDUSTRIES.												VALUE OF PRODUCTS.		
	Total.			18 years of age and over.						Under 16 years of age.					
				Male.			Female.								
				1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Adams.....	3,974	3,930	3,991	2,376	2,223	2,026	1,416	1,580	1,478	182	127	487	\$15,076,858	\$6,530,232	\$6,410,054
Amesbury.....	3,173	1,451	.....	2,712	1,264	.....	430	172	.....	31	15	.....	16,309,509	3,551,434	.....
Arlington.....	228	246	283	202	233	259	24	10	22	2	3	2	1,006,207	641,092	695,356
Attleboro.....	6,763	6,058	6,429	4,798	4,434	4,396	1,684	1,542	1,853	281	82	180	34,471,577	13,946,884	15,160,359
Belmont.....	93	.....	.....	81	.....	.....	11	.....	.....	1	.....	.....	374,586	.....	.....
Beverly.....	6,495	4,641	4,487	5,274	3,904	3,679	1,134	717	752	87	20	56	21,829,684	8,774,187	8,652,547
Boston.....	88,759	78,894	73,957	57,736	53,046	49,146	28,057	24,608	22,407	2,966	1,240	2,404	618,821,962	284,802,479	244,793,556
Braintree.....	2,176	.....	.....	1,416	.....	.....	593	.....	.....	107	.....	.....	11,974,839	.....	.....
Brockton.....	18,059	16,246	14,737	11,978	11,708	10,661	5,627	4,283	3,834	454	165	242	117,855,025	61,250,131	46,972,388
Brookline.....	484	335	340	254	296	280	200	38	54	30	1	6	2,243,311	658,502	532,303
Cambridge.....	22,550	16,749	15,260	14,953	11,826	10,630	6,964	4,741	4,211	633	182	419	127,864,901	57,483,949	44,227,395
Chelsea.....	6,580	6,241	5,954	4,576	4,444	4,213	1,753	1,741	1,611	251	56	130	32,536,518	16,971,028	17,002,492
Cilntopee.....	10,063	8,426	7,260	7,684	6,365	4,994	2,114	1,916	2,020	270	145	246	89,772,534	28,869,152	19,219,166
Cilnton.....	4,155	4,064	4,123	2,383	2,300	2,264	1,454	1,640	1,070	318	124	189	15,179,819	6,735,297	7,844,643
Danvers.....	1,474	.....	.....	966	.....	.....	442	.....	.....	66	.....	.....	11,541,839	.....	.....
Dedham.....	463	256	.....	267	193	.....	157	58	.....	39	5	.....	1,737,673	427,690	.....
Easthampton.....	4,142	.....	.....	2,412	.....	.....	1,519	.....	.....	211	.....	.....	37,942,121	.....	.....
Everett.....	4,523	3,226	2,680	3,777	2,717	2,353	611	463	257	135	46	70	35,775,728	13,219,200	8,746,923
Fall River.....	37,015	36,834	37,139	19,335	19,868	20,459	15,476	14,899	14,949	2,404	2,067	1,731	163,240,082	64,063,146	64,145,726
Fitchburg.....	9,907	8,837	8,497	6,697	6,088	5,825	2,780	2,470	2,271	430	279	401	58,164,842	23,983,352	23,262,155
Frammingham.....	4,362	3,982	3,069	2,766	2,460	1,797	1,492	1,477	1,156	104	45	116	18,842,173	8,726,574	6,916,864
Gardner.....	4,036	3,964	3,617	3,161	3,440	3,100	689	481	415	186	43	102	13,599,682	7,449,987	6,489,148
Gloucester.....	2,684	2,814	2,181	1,951	2,082	1,658	683	661	482	50	71	41	18,803,673	8,533,964	7,753,493
Greenfield.....	2,750	1,602	1,251	2,239	1,436	1,043	480	134	139	31	32	69	9,481,352	3,527,101	2,801,011
Haverhill.....	15,783	13,281	11,689	10,139	8,810	7,686	5,354	4,325	3,762	290	146	241	96,276,853	42,409,246	35,370,617
Holyoke.....	17,773	17,493	16,513	9,835	10,219	8,908	6,989	6,751	6,458	949	523	1,149	93,426,775	44,041,155	40,097,224
Lawrence.....	30,319	31,043	30,542	17,946	19,300	17,493	10,900	11,183	11,444	1,473	560	1,005	183,449,096	73,177,803	79,992,668
Leominster.....	5,793	4,929	5,601	3,600	3,638	3,708	1,999	1,202	1,746	194	89	147	24,628,780	10,838,024	10,530,815
Lowell.....	30,111	29,904	32,333	16,513	16,934	20,222	12,577	12,432	10,883	1,021	538	1,228	137,801,538	66,048,641	59,687,714
Lynn.....	27,355	25,339	27,368	18,852	17,469	19,077	8,188	7,782	8,063	1,315	88	228	160,905,792	69,783,418	71,603,140
Malden.....	4,723	2,850	2,900	2,575	1,622	1,649	1,981	1,171	1,222	167	57	29	22,077,624	8,366,344	8,205,852
Marlborough.....	3,798	3,822	4,265	2,425	2,624	2,787	1,227	1,092	1,201	146	106	277	19,044,907	9,983,632	10,832,277
Medford.....	1,031	559	560	694	480	438	305	77	66	32	8	.....	5,665,723	2,618,893	2,045,289
Melrose.....	1,606	962	1,038	709	446	438	845	400	591	62	26	9	6,083,698	2,499,029	2,524,669
Methuen.....	2,571	1,940	1,572	936	786	653	1,421	1,116	793	214	38	126	14,214,905	4,461,111	3,476,702
Milford.....	1,800	1,749	1,801	1,157	1,274	1,045	578	458	710	74	17	46	8,408,531	4,028,492	4,442,140
Natick.....	1,463	1,347	.....	1,089	1,042	.....	361	300	.....	13	5	.....	7,393,397	4,566,253	.....
New Bedford.....	41,630	33,343	26,566	23,906	19,282	15,700	15,896	13,012	9,516	1,828	1,049	1,356	210,773,312	65,575,005	53,237,839
Newburyport.....	3,930	3,349	3,215	2,418	2,135	2,083	1,438	1,171	1,035	104	43	97	20,595,015	8,245,998	6,931,049
Newton.....	2,547	2,154	2,174	1,691	1,472	1,604	791	669	520	65	13	50	15,524,597	5,822,853	6,278,714
North Adams.....	6,023	5,288	5,414	3,891	3,509	3,508	1,899	1,620	1,560	233	159	346	36,203,767	10,922,575	10,314,847
Northampton.....	3,532	3,446	3,150	2,119	2,225	2,012	1,216	1,092	977	197	129	161	17,960,620	8,580,730	6,998,992
Northbridge.....	3,871	.....	.....	3,185	.....	.....	534	.....	.....	162	.....	.....	13,848,897	.....	.....
Norwood.....	2,835	.....	.....	2,221	.....	.....	570	.....	.....	44	.....	.....	20,359,242	.....	.....
Peabody.....	8,013	5,485	4,860	7,156	5,126	4,270	787	356	518	70	3	62	52,906,722	18,441,906	15,548,732
Pittsfield.....	8,570	7,490	6,353	6,267	5,455	4,508	2,124	1,973	1,679	179	62	168	41,613,356	22,241,237	15,215,202
Plymouth.....	2,971	2,845	2,547	2,299	1,872	2,124	1,047	673	665	25	269	123	31,319,553	13,904,545	11,618,020
Quincy.....	19,653	5,783	5,492	19,103	5,353	4,769	521	409	560	29	21	163	68,535,406	12,097,452	10,805,403
Revere.....	126	80	101	110	71	98	15	9	3	1	.....	.....	767,204	349,696	407,336
Salem.....	5,672	5,294	6,338	3,422	3,587	4,070	2,048	1,627	1,985	202	80	283	30,437,957	13,652,586	14,576,276
Saugus.....	126	.....	.....	95	.....	.....	24	.....	.....	6	.....	.....	1,157,215	.....	.....
Somerville.....	0,111	5,429	5,280	5,569	5,180	4,841	476	219	370	77	30	69	99,558,513	43,971,291	38,686,927
Southbridge.....	5,329	4,332	4,037	3,009	2,736	2,680	2,066	1,421	1,183	254	175	174	18,252,314	7,366,430	6,289,131
Springfield.....	18,429	14,240	11,855	13,331	10,976	8,715	4,613	3,136	2,726	485	128	414	98,332,955	44,428,854	31,772,815
Taunton.....	8,981	7,371	7,407	6,318	5,441	5,345	2,322	1,823	1,820	341	107	242	48,330,638	15,885,812	15,379,821
Wakefield.....	1,869	2,008	2,230	1,138	1,241	1,200	698	747	994	33	20	36	8,977,010	6,067,650	5,627,102
Waltham.....	8,009	6,465	6,037	4,995	4,305	3,580	2,969	2,138	2,369	105	22	88	20,878,515	10,236,912	7,814,178
Watertown.....	8,420	4,787	4,335	5,351	3,134	2,817	2,912	1,642	1,872	157	11	146	47,297,519	14,764,326	11,545,555
Webster.....	3,849	3,246	3,019	2,408	2,096	1,879	1,097	972	901	344	178	239	28,400,765	9,233,919	10,027,086
Westfield.....	3,243	3,584	3,060	2,488	3,026	2,390	664	517	594	91	41	70	14,278,973	8,420,439	7,361,528
West Springfield.....	2,791	2,209	.....	2,482	1,876	.....	301	332	.....	8	1	.....	12,389,556	5,039,953	.....
Weymouth.....	2,146	2,074	1,991	1,389	1,505	1,398	637	551	554	120	18	39	16,836,997	8,251,041	6,027,168
Winchester.....	1,112	1,048	.....	985	952	.....	122	96	.....	5	.....	.....	9,697,701	5,159,479	.....
Winthrop.....	61	16	7	30	12	7	31	4	.....	.....	.....	.....	330,234	77,994	42,168
Woburn.....	2,011	1,665	1,663	1,705	1,463	1,528	284	98	.....	111	22	14	13,980,185	5,517,806	5,408,061
Worcester.....	38,673	29,452	28,221	29,705	22,402	21,355	7,944	6,646	5,745	1,024	404	1,121	208,705,773	82,829,356	77,147,884

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

MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.			MONTH.	NUMBER. <sup>1</sup>			PER CENT OF MAXIMUM.		
	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909
January.....	695,713	626,776	555,750	90.9	88.9	92.4	July.....	715,599	595,609	573,462	93.5	94.0	93.6
February.....	677,894	628,535	572,613	88.4	99.2	93.5	August.....	726,537	588,703	581,008	94.9	92.9	94.8
March.....	680,825	633,583	578,519	88.9	100.0	94.6	September.....	736,391	589,194	594,686	96.2	93.0	97.1
April.....	679,325	628,244	576,513	88.7	99.2	94.1	October.....	741,911	590,992	601,533	96.9	93.3	98.2
May.....	689,490	619,082	576,379	90.0	97.7	94.1	November.....	751,909	657,141	604,466	98.2	92.7	98.7
June.....	705,382	611,928	576,055	92.1	96.6	94.0	December.....	765,746	580,489	612,615	100.0	91.6	100.0



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

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

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	713,836	695,713	677,204	680,825	679,235	689,490	705,382	715,599	726,537	736,391	741,911	751,909	765,748	88.4
Males.....	490,006	474,934	463,973	467,873	467,350	474,939	485,726	492,100	500,327	505,520	509,413	513,620	523,982	88.5
Females.....	223,830	220,779	213,231	212,952	211,885	214,551	210,656	223,493	226,210	230,871	232,498	238,280	241,764	87.6
Ammunition.....	2,449	9,111	4,398	2,316	1,905	1,665	1,617	1,463	1,406	1,441	1,418	1,383	1,325	14.5
Automobile bodies and parts.....	3,541	3,740	3,811	3,820	3,190	3,243	3,152	3,218	3,527	3,506	3,728	3,641	3,856	81.7
Belt and hose, rubber.....	2,441	2,827	2,358	2,367	2,159	2,152	2,088	2,282	2,579	2,558	2,473	2,600	2,851	71.1
Bookbinding and blank-book making.....	2,936	2,709	2,765	2,537	2,857	2,917	3,006	2,995	2,968	2,980	3,011	3,090	3,097	87.5
Boot and shoe cut stock.....	4,631	4,420	4,532	4,627	4,439	4,491	4,593	4,783	4,678	4,744	4,871	4,733	4,761	90.7
Boot and shoe findings.....	5,896	5,291	5,495	5,538	5,639	5,565	5,772	5,848	6,036	6,184	6,326	6,457	6,601	80.2
Boots and shoes, not including rubber boots and shoes.....	80,166	77,871	78,498	78,698	77,018	77,523	77,620	79,047	80,737	81,388	82,235	84,663	86,704	88.8
Boots and shoes, rubber.....	13,082	14,308	14,413	13,767	12,834	12,209	11,755	11,835	12,042	12,136	13,031	13,979	14,435	81.4
Boxes, paper and other, not elsewhere specified.....	4,711	4,281	4,401	4,493	4,670	4,621	4,650	4,771	4,725	4,751	5,007	5,009	5,163	82.9
Boxes, wooden packing, except cigar boxes.....	3,232	3,219	3,162	3,140	3,072	3,048	3,065	3,177	3,254	3,331	3,398	3,422	3,496	87.2
Brass, bronze, and copper products.....	2,832	2,929	2,872	2,790	2,681	2,605	2,688	2,755	2,825	2,872	2,936	2,998	3,032	85.9
Bread and other bakery products.....	8,583	8,180	8,145	8,108	8,269	8,414	8,653	8,870	8,790	8,740	8,765	8,940	9,028	89.7
Carpets and rugs, other than rag.....	3,134	2,553	2,410	2,504	2,644	3,117	3,442	3,645	3,726	2,853	3,491	3,563	3,660	64.7
Cars and general shop construction and repairs by steam-railroad companies.....	7,724	7,781	7,917	7,843	7,642	7,479	7,411	7,645	7,512	7,749	7,735	7,870	8,101	91.5
Chemicals.....	2,433	2,626	2,415	2,529	2,346	2,367	2,371	2,431	2,530	2,623	2,606	2,696	2,729	85.3
Chocolate and cocoa products.....	2,007	1,969	2,020	2,080	2,030	1,844	1,870	2,127	2,053	2,144	2,111	1,949	1,887	86.0
Clothing, men's.....	6,856	6,088	5,292	5,402	6,642	6,863	6,966	7,253	7,530	7,715	7,722	7,823	7,916	64.3
Clothing, women's.....	6,271	6,256	5,771	6,123	6,349	6,521	6,499	6,289	6,284	6,588	6,573	6,524	6,295	77.3
Confectionery and ice cream.....	11,585	10,708	11,566	11,783	11,456	11,132	10,826	10,733	11,982	12,103	12,593	12,428	11,770	85.0
Cordage and twine.....	2,743	2,574	2,731	2,948	2,853	2,758	2,766	2,755	2,765	2,693	2,685	2,667	2,720	87.3
Cotton goods.....	122,499	122,027	118,686	118,567	118,106	119,922	122,886	124,315	123,798	125,211	123,281	125,572	127,017	93.0
Cutlery and edge tools.....	3,988	3,698	3,818	3,882	3,917	3,962	3,991	4,024	3,699	4,018	4,153	4,337	4,457	80.7
Dyeing and finishing textiles, exclusive of that done in textile mills.....	12,321	12,043	10,908	10,800	10,860	11,508	12,264	12,850	13,077	13,148	12,854	13,609	13,931	77.5
Electrical machinery, apparatus, and supplies.....	23,889	22,102	22,543	21,716	21,538	22,019	22,353	23,219	24,362	25,256	26,294	27,108	28,024	77.0
Emery and other abrasive wheels.....	2,443	2,483	2,441	2,420	2,383	2,294	2,283	2,211	2,360	2,440	2,558	2,604	2,776	79.8
Firearms.....	2,253	1,888	1,764	2,124	2,385	2,498	2,570	2,312	2,351	2,363	2,397	2,435	2,451	53.9
Foundry and machine-shop products.....	27,712	27,308	26,517	26,196	26,135	26,901	26,454	27,019	27,922	28,079	29,172	30,778	31,263	82.8
Furniture.....	6,342	6,660	5,590	5,781	5,854	5,969	5,984	6,347	6,580	6,804	7,017	7,236	7,402	75.1
Gas, illuminating and heating.....	2,654	2,738	2,729	2,680	2,686	2,726	2,687	2,690	2,656	2,424	2,606	2,581	2,638	88.5
Iron and steel, steel works and rolling mills.....	3,684	3,825	3,599	3,385	3,221	3,390	3,407	3,673	3,786	3,940	3,991	3,962	4,029	79.9
Iron and steel, forgings, not made in steel works or rolling mills.....	2,172	2,067	2,024	2,050	2,068	2,032	2,061	2,119	2,200	2,193	2,321	2,438	2,491	81.3
Jewelry.....	6,786	6,808	6,003	6,202	6,262	6,439	6,024	7,075	7,123	7,244	7,380	7,601	7,713	75.3
Knit goods.....	12,761	12,722	12,501	12,484	12,402	11,970	12,117	12,432	12,603	12,954	13,353	13,499	13,975	85.7
Leather, tanned, curried, and finished.....	15,180	13,878	13,881	13,598	13,658	14,375	15,195	15,241	16,355	16,736	16,791	17,093	17,379	76.2
Lumber, planing-mill products, not including planing-mills connected with sawmills.....	2,245	2,021	1,990	1,972	2,054	2,080	1,993	2,280	2,392	2,445	2,546	2,677	2,814	75.0
Machine tools.....	6,471	6,015	6,026	6,497	6,258	6,032	6,045	6,568	6,181	6,315	6,704	6,974	7,297	80.3
Motorcycles, bicycles, and parts.....	3,000	3,019	3,047	2,984	3,066	3,081	2,980	2,969	2,924	2,794	2,928	3,080	3,128	89.3
Musical instruments, pianos.....	2,228	1,885	1,952	2,080	2,107	2,276	2,283	2,338	2,301	2,342	2,349	2,389	2,394	78.7
Optical goods.....	4,082	3,980	4,087	3,789	3,907	3,954	4,143	3,683	4,206	4,218	4,289	4,355	4,373	84.2
Paper and wood pulp.....	12,960	12,651	11,971	12,432	12,220	12,192	12,643	12,949	13,020	13,575	13,845	13,929	14,093	84.9
Printing and publishing, book and job.....	7,634	7,141	7,258	7,423	7,573	7,589	7,608	7,544	7,631	7,705	7,901	8,118	8,217	86.9
Printing and publishing, newspapers and periodicals.....	5,885	6,660	5,700	5,709	5,833	5,922	5,894	5,859	5,828	5,944	6,085	6,101	6,105	92.5
Pumps, steam.....	2,280	2,881	2,730	2,707	2,592	2,247	2,054	1,669	2,013	2,024	2,031	2,005	2,057	68.0
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	9,406	7,788	7,959	8,842	9,517	9,532	9,212	9,353	9,586	9,692	10,115	10,532	10,804	71.5
Silk goods, including throwsters.....	5,097	4,665	4,618	4,780	5,083	5,388	5,432	5,900	6,140	6,410	6,512	6,629	6,777	68.1
Slaughtering and meat packing.....	4,307	5,854	5,819	5,165	4,008	4,453	4,624	4,741	4,823	4,232	3,655	1,601	3,609	28.0
Stationary goods, not elsewhere specified.....	3,305	3,125	3,133	3,132	3,077	3,267	3,205	3,252	3,271	3,417	3,568	3,605	3,628	84.8
Steam fittings and steam and hot-water heating apparatus.....	3,521	3,492	3,501	3,630	3,520	3,443	3,142	3,121	3,424	3,518	3,713	3,846	3,902	80.0
Suspenders, garters, and elastic woven goods.....	2,965	2,766	2,755	2,758	2,791	2,781	2,839	3,000	3,027	3,108	3,220	3,275	3,282	83.3
Textile machinery and parts.....	17,413	16,740	16,181	15,737	15,589	15,780	16,708	17,739	18,226	19,082	19,297	19,516	19,253	79.8
Tobacco, cigars and cigarettes.....	2,946	3,324	3,412	3,364	2,880	3,102	3,170	1,832	1,744	3,095	3,255	3,315	3,339	40.5
Tools, not elsewhere specified.....	7,226	7,169	7,226	7,354	7,204	7,123	7,085	7,123	7,119	7,167	7,241	7,381	7,525	94.2
Wire.....	5,203	5,201	5,105	5,089	4,970	4,935	4,910	4,960	5,050	5,238	5,372	5,701	5,905	83.1
Woolen goods.....	17,568	13,873	12,544	13,532	16,428	17,631	19,216	19,747	19,859	20,235	19,572	19,646	18,533	62.0
Worsted goods.....	36,296	31,702	29,755	27,852	28,520	32,735	39,327	41,786	41,870	42,532	40,416	40,985	43,872	54.1
All other industries.....	129,241	128,866	128,581	128,689	127,624	128,418	128,724	130,579	129,998	129,437	130,207	129,701	130,168	97.7
Industries showing large proportion of females.														
Ammunition.....	1,553	5,744	2,830	1,448	1,190	1,049	1,023	934	897	915	918	848	810	14.6
Bookbinding and blank-book making.....	1,473	1,445	1,402	1,429	1,461	1,488	1,513	1,535	1,467	1,496	1,501	1,515	1,524	87.6
Boot and shoe cut stock.....	1,138	1,122	1,104	1,155	1,096	1,088	1,088	1,173	1,193	1,110	1,161	1,160	1,148	91.0
Boot and shoe findings.....	2,079	1,915	2,010	2,024	2,045	2,020	2,029	2,055	2,133	2,166	2,179	2,198	2,178	87.1
Boots and shoes, not including rubber boots and shoes.....	29,977													



## MANUFACTURES—MASSACHUSETTS.

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

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

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Dyeing and finishing textiles, exclusive of that done in textile mills.....	2,884	2,794	2,683	2,681	<i>2,611</i>	2,693	2,854	2,949	2,990	3,038	2,875	3,200	3,290	79.4
Electrical machinery, apparatus, and supplies.....	5,994	5,669	5,711	5,507	<i>5,503</i>	5,378	5,501	5,730	6,103	6,393	6,707	6,958	6,968	76.1
Furniture.....	663	594	<i>565</i>	579	605	631	631	677	675	685	732	771	801	70.5
Jewelry.....	2,454	<i>2,107</i>	2,140	2,216	2,230	2,296	2,332	2,602	2,613	2,639	2,691	2,793	2,819	74.7
Knit goods.....	9,074	9,072	8,918	8,875	8,774	<i>8,608</i>	8,613	8,898	8,988	9,220	9,521	9,581	9,926	85.7
Leather, tanned, curried, and finished.....	1,271	1,291	1,182	1,107	1,129	1,209	1,261	<i>1,253</i>	1,393	1,387	1,409	1,459	1,472	64.7
Optical goods.....	1,844	1,864	1,857	1,733	1,788	1,798	1,877	<i>1,880</i>	1,887	1,876	1,936	1,986	1,960	79.9
Paper and wood pulp.....	8,393	3,342	<i>3,157</i>	3,297	3,183	3,218	3,336	3,416	3,393	3,571	3,553	3,648	3,597	86.5
Printing and publishing, book and job.....	2,059	1,978	2,026	2,056	2,100	2,056	2,060	1,999	<i>1,997</i>	2,022	2,099	2,176	2,170	90.4
Printing and publishing, newspapers and periodicals.....	838	815	829	845	828	832	828	817	<i>812</i>	853	872	871	856	93.1
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1,354	1,222	<i>1,198</i>	1,290	1,269	1,264	1,304	1,361	1,345	1,396	1,496	1,554	1,549	77.1
Silk goods, including throwsters.....	3,668	<i>3,037</i>	3,040	3,124	3,344	3,570	3,710	3,882	3,995	4,053	4,093	4,074	4,149	73.2
Stationery goods, not elsewhere specified.....	2,017	1,872	<i>1,872</i>	1,866	<i>1,857</i>	2,021	1,966	2,007	2,030	2,148	2,171	2,212	2,182	84.0
Suspenders, garters, and elastic woven goods.....	2,012	1,862	<i>1,843</i>	1,844	1,895	1,883	1,929	2,040	2,044	2,100	2,208	2,281	2,235	81.5
Textile machinery and parts.....	1,017	1,054	1,005	1,008	<i>955</i>	967	994	997	1,002	993	1,048	1,093	1,088	87.4
Tobacco, cigars and cigarettes.....	787	812	858	853	663	758	765	<i>455</i>	566	807	913	947	982	46.3
Tools, not elsewhere specified.....	853	889	883	954	905	881	853	821	780	795	803	840	832	81.8
Woolen goods.....	5,341	4,478	<i>3,967</i>	4,134	4,839	5,361	5,776	5,970	6,048	6,186	5,898	5,927	5,468	64.3
Worsted goods.....	16,558	13,804	<i>11,312</i>	12,951	13,344	15,223	18,033	18,882	18,733	19,386	18,343	18,676	19,984	56.7
Total for cities.....	609,671	595,839	<i>578,499</i>	581,502	579,290	587,408	601,508	609,857	619,954	629,229	634,252	642,833	655,881	88.2
Males.....	415,106	403,437	<i>393,246</i>	396,805	395,735	401,491	410,973	416,047	423,707	428,446	431,622	434,944	444,819	88.4
Females.....	194,565	192,402	<i>185,253</i>	184,697	<i>183,555</i>	185,917	190,535	193,810	196,247	200,783	202,630	207,889	211,062	87.0
ADAMS.....	3,974	3,889	3,866	3,893	4,027	4,022	4,027	4,004	<i>3,584</i>	4,079	4,078	4,094	4,185	84.2
Males.....	2,472	2,345	2,345	2,402	2,496	2,493	2,525	2,488	<i>2,238</i>	2,549	2,577	2,577	2,648	84.5
Females.....	1,502	1,544	1,521	1,491	1,531	1,529	1,502	1,516	<i>1,286</i>	1,521	1,529	1,517	1,537	83.3
AMESBURY.....	3,173	3,246	3,283	3,294	<i>2,710</i>	2,875	2,896	2,990	3,244	3,241	3,335	3,397	3,565	76.0
Males.....	2,784	2,837	2,839	2,862	<i>2,319</i>	2,465	2,482	2,552	2,809	2,777	2,854	2,933	3,079	75.3
Females.....	439	409	444	432	<i>391</i>	410	414	438	435	464	481	464	486	80.5
ARLINGTON.....	228	<i>208</i>	220	227	228	239	234	236	233	223	211	237	240	86.7
Males.....	204	185	196	203	205	215	210	212	209	197	187	213	216	85.6
Females.....	24	23	24	24	23	24	24	24	24	26	24	24	24	88.5
ATTLEBORO.....	6,763	<i>5,842</i>	5,988	6,142	6,292	6,496	6,638	6,887	6,997	7,189	7,399	7,567	7,719	75.7
Males.....	4,946	<i>4,208</i>	4,380	4,445	4,555	4,719	4,845	5,045	5,132	5,288	5,446	5,606	5,862	75.4
Females.....	1,817	<i>1,634</i>	1,608	1,697	1,737	1,777	1,792	1,842	1,865	1,901	1,953	2,001	2,057	76.5
BELMONT.....	93	104	<i>52</i>	58	97	102	103	97	98	99	98	102	106	49.1
Males.....	82	94	<i>42</i>	47	87	92	90	86	85	89	88	91	93	44.7
Females.....	11	10	<i>10</i>	11	10	10	13	11	13	10	10	11	13	70.9
BEVERLY.....	6,495	5,654	5,794	<i>5,615</i>	5,699	5,772	6,305	6,582	6,850	6,947	7,312	7,644	7,766	72.3
Males.....	5,333	4,549	4,794	<i>4,574</i>	4,772	5,227	5,474	5,700	5,833	6,203	6,482	6,541	6,541	66.5
Females.....	1,162	1,105	1,003	1,241	1,187	1,072	1,078	1,108	1,090	1,064	1,109	1,162	1,225	81.5
BOSTON.....	88,759	86,708	88,327	88,442	87,560	87,628	<i>85,220</i>	85,413	86,843	90,068	92,087	93,290	93,522	91.1
Males.....	58,974	58,184	58,388	58,534	58,120	58,374	<i>57,522</i>	57,466	58,078	59,734	60,439	61,279	61,920	92.6
Females.....	29,785	28,524	29,939	30,068	29,440	29,254	<i>27,698</i>	27,947	28,765	30,334	31,648	32,011	31,602	87.2
BRAINTREE.....	2,176	2,085	2,114	2,152	<i>2,017</i>	2,110	2,088	2,162	2,280	2,242	2,200	2,276	2,386	84.5
Males.....	1,821	1,490	1,487	1,526	<i>1,456</i>	1,502	1,466	1,530	1,572	1,551	1,521	1,558	1,617	89.2
Females.....	655	595	627	626	<i>561</i>	608	622	632	708	690	679	723	769	73.0
BROCKTON.....	18,059	<i>17,159</i>	17,765	17,599	17,752	17,331	17,924	18,336	18,784	18,117	18,273	18,635	18,936	90.6
Males.....	12,210	<i>11,687</i>	11,966	11,800	11,901	11,753	12,163	12,404	12,650	12,238	12,480	12,609	12,789	90.6
Females.....	5,849	<i>5,472</i>	5,799	5,799	5,761	5,578	5,761	5,932	6,134	5,879	5,893	6,026	6,147	90.6
BROOKLINE.....	484	822	782	759	364	360	367	372	387	372	387	435	444	43.8
Males.....	260	270	269	274	257	260	250	249	249	252	256	261	273	90.9
Females.....	224	552	513	285	173	104	110	118	123	135	179	183	213	18.8
CAMBRIDGE.....	22,550	21,782	21,132	21,123	<i>21,038</i>	21,509	21,641	22,288	22,988	23,489	24,011	24,781	24,758	84.0
Males.....	15,227	14,419	<i>14,046</i>	14,163	14,084	14,524	14,579	15,133	15,750	16,173	16,356	16,844	16,653	83.4
Females.....	7,323	7,363	7,086	6,960	<i>6,954</i>	7,045	7,062	7,155	7,238	7,316	7,655	7,937	8,105	85.8
CHELSEA.....	6,580	6,615	6,408	6,435	6,321	<i>6,249</i>	6,483	6,559	6,919	6,641	6,636	6,783	6,911	90.3
Males.....	4,693	4,680	4,516	4,569	4,466	<i>4,415</i>	4,550	4,621	4,954	4,797	4,822	4,915	5,011	88.1
Females.....	1,887	1,935	1,892	1,866	1,855	<i>1,834</i>	1,933	1,938	1,965	1,844	1,814	1,868	1,900	92.3
CHICOPEE.....	10,068	9,980	9,736	9,913	9,961	10,029	9,684	9,636	9,640	9,980	10,451	10,813	11,043	87.2
Males.....	7,809	7,709	7,516	7,653	7,806	7,826	7,446	7,418	7,599	7,640	8,114	8,405	8,776	84.3
Females.....	2,259	2,271	2,220	2,260	<i>2,155</i>	2,203	2,188	2,218	2,241	2,340	2,337	2,408	2,267	89.5
CLINTON.....	4,155	3,902	<i>3,847</i>	3,866	3,934	4,039	4,247	4,283	4,342	4,334	4,265	4,360	4,441	86.6
Males.....	2,543	2,397	<i>2,365</i>	2,395	2,419	2,477	2,666	2,608	2,638	2,623	2,581	2,649	2,670	89.7
Females.....	1,612	1,505	<i>1,482</i>	1,471	1,515	1,562	1,581	1,675	1,704	1,711	1,684	1,711	1,771	82.0
DANVERS.....	1,474	1,513	1,515	1,474	1,442	<i>1,430</i>	1,487	1,482	1,475	1,460	1,457	1,481	1,472	94.4
Males.....	993	1,029	1,016	984	<i>966</i>	995	995	999	997	979	974	1,010	1,021	92.9
Females.....	481	484	499	490	486	474	492	483	478	481	483	471	451	90.4
DEDHAM.....	463	<i>372</i>	376	387	399	427	462	503	542	532	507	514	535	68.6
Males.....	285	<i>253</i>	247	251	<i>243</i>	265	282	297	327	327	305	309	326	74.3
Females.....	177	<i>119</i>	129	136	156	162	180	206	215	205	202	205	209	55.3
EASTHAMPTON.....	4,142	<i>3,613</i>	3,968	4,036	4,041	4,060	4,126	4,211	4,235	4,221	4,253	4,276	4,359	89.9
Males.....	2,528	<i>2,367</i>	2,400	2,479	2,487	2,497	2,526	2,555	2,602	2,558	2,633	2,584	2,658	88.7
Females.....	1,614	<i>1,246</i>	1,568	1,557	<i>1,554</i>	1,563	1,600	1,656	1,633	1,663	1,620	1,692	1,701	91.4



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

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

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Percent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
EVERETT.....	4,523	4,536	4,373	4,276	4,155	<i>4,147</i>	4,211	4,509	4,651	4,753	4,874	4,830	<b>4,961</b>	83.6
Males.....	3,864	3,850	3,725	3,636	3,590	<i>3,552</i>	3,606	3,827	3,937	4,042	4,161	4,112	<b>4,240</b>	83.8
Females.....	669	686	648	640	565	<i>595</i>	605	682	714	711	713	718	<b>721</b>	82.5
FALL RIVER.....	37,015	36,958	36,280	<i>35,909</i>	36,288	36,825	36,915	37,145	37,073	37,460	37,415	38,065	<b>37,847</b>	94.3
Males.....	20,374	20,209	19,857	<i>19,759</i>	19,879	20,211	20,287	20,382	20,385	20,695	20,679	21,093	<b>21,012</b>	93.6
Females.....	16,641	16,689	16,423	<i>16,170</i>	16,409	16,614	16,628	16,763	16,688	16,765	16,736	16,972	<b>16,835</b>	95.3
FITCHBURG.....	9,907	10,107	9,826	<i>9,409</i>	9,733	9,843	9,813	9,740	9,781	9,918	9,957	10,223	<b>10,534</b>	89.3
Males.....	6,911	7,218	6,977	<i>6,736</i>	6,813	6,925	6,832	<i>6,079</i>	6,708	6,808	6,858	7,021	<b>7,253</b>	92.1
Females.....	2,996	2,889	2,849	<i>2,673</i>	2,920	2,918	2,981	3,061	3,073	3,110	3,099	3,202	<b>3,281</b>	81.5
FRAMINGHAM.....	4,362	<i>3,640</i>	3,591	3,738	3,789	3,896	4,110	4,292	4,660	4,821	5,102	5,239	<b>5,557</b>	63.9
Males.....	2,814	<i>2,169</i>	2,224	2,337	2,380	2,531	2,709	2,938	3,045	3,207	3,403	3,501	<b>3,621</b>	59.9
Females.....	1,548	1,380	1,367	1,401	1,409	<i>1,366</i>	1,472	1,583	1,615	1,614	1,696	1,738	<b>1,936</b>	70.5
GARDNER.....	4,036	3,713	3,641	3,639	<i>3,638</i>	3,662	3,846	4,020	4,185	4,319	4,451	4,595	<b>4,723</b>	77.0
Males.....	3,289	3,087	3,040	3,026	<i>3,006</i>	3,000	3,159	3,230	3,363	3,486	3,585	3,693	<b>3,801</b>	78.8
Females.....	747	626	601	613	632	662	687	790	822	833	866	900	<b>922</b>	65.2
GLOUCESTER.....	2,684	2,731	2,842	2,600	<i>2,531</i>	2,589	2,667	2,674	2,551	2,701	2,670	2,823	<b>3,023</b>	83.7
Males.....	1,967	2,074	1,983	1,911	<i>1,842</i>	1,887	1,975	1,984	1,790	1,957	1,927	2,086	<b>2,182</b>	82.3
Females.....	717	657	659	689	689	702	692	690	765	744	743	737	<b>841</b>	78.1
GREENFIELD.....	2,760	2,782	2,722	2,603	2,610	2,583	2,592	<i>2,569</i>	2,600	2,701	2,910	3,113	<b>3,125</b>	82.2
Males.....	2,269	2,265	2,201	2,182	2,153	2,129	2,137	<i>2,113</i>	2,134	2,207	2,404	2,581	<b>2,602</b>	81.2
Females.....	491	517	521	511	457	454	455	456	466	494	506	532	<b>523</b>	85.3
HAVERHILL.....	15,783	15,454	15,229	15,795	15,499	15,101	14,903	<i>14,193</i>	14,771	15,845	16,022	17,529	<b>18,089</b>	78.5
Males.....	10,314	9,942	9,844	10,335	10,236	9,895	9,941	<i>9,449</i>	9,775	10,487	10,829	11,346	<b>11,689</b>	80.8
Females.....	5,469	5,512	5,385	5,460	5,263	5,206	5,022	<i>4,749</i>	4,996	5,358	5,094	6,183	<b>6,400</b>	74.2
HOLYOKE.....	17,773	17,481	<i>16,685</i>	16,950	16,872	17,120	17,594	17,899	17,930	18,418	18,567	18,829	<b>18,922</b>	88.2
Males.....	10,284	10,178	<i>9,588</i>	9,781	9,723	9,713	10,045	10,210	10,335	10,589	10,768	10,891	<b>10,987</b>	87.3
Females.....	7,539	7,303	<i>7,097</i>	7,178	7,149	7,407	7,549	7,689	7,595	7,829	7,799	7,938	<b>7,935</b>	89.4
LAWRENCE.....	30,319	28,880	<i>18,896</i>	22,491	22,229	25,967	34,144	35,674	35,532	36,078	33,583	34,393	<b>37,083</b>	49.3
Males.....	18,636	18,093	<i>11,287</i>	18,871	18,700	16,151	20,887	21,846	21,783	21,970	20,487	20,973	<b>22,459</b>	50.2
Females.....	11,683	10,787	<i>6,609</i>	8,620	8,439	9,816	13,257	13,828	13,749	14,108	13,096	13,420	<b>14,594</b>	47.8
LEOMINSTER.....	5,793	<i>5,307</i>	5,447	5,622	5,678	5,731	5,768	5,697	5,712	5,889	5,995	6,190	<b>6,480</b>	81.9
Males.....	3,715	<i>3,309</i>	3,402	3,543	3,642	3,694	3,767	3,719	3,731	3,809	3,831	3,973	<b>4,158</b>	79.5
Females.....	2,078	2,001	2,045	2,079	2,036	2,037	2,001	1,978	1,981	2,080	2,164	2,212	<b>2,322</b>	85.2
LOWELL.....	30,111	<i>34,851</i>	29,738	<i>27,896</i>	27,049	28,304	28,718	28,868	29,772	30,653	31,202	30,486	<b>30,892</b>	80.0
Males.....	17,024	<i>18,339</i>	16,533	<i>15,864</i>	16,830	16,151	17,037	17,137	17,214	17,674	17,910	17,152	<b>17,438</b>	86.3
Females.....	13,087	<i>16,512</i>	13,205	<i>12,032</i>	12,119	12,153	12,681	12,731	12,558	12,978	13,292	13,334	<b>13,454</b>	72.9
LYNN.....	27,355	26,058	26,896	25,887	<i>25,531</i>	25,592	26,322	27,080	28,095	28,546	28,882	29,462	<b>30,409</b>	84.0
Males.....	19,042	18,002	18,319	<i>17,847</i>	17,658	17,998	18,387	18,998	19,482	19,680	20,101	20,350	<b>21,282</b>	83.8
Females.....	8,313	8,056	8,577	8,040	<i>7,673</i>	7,594	7,935	8,082	8,613	8,866	8,691	9,112	<b>9,127</b>	83.1
MALDEN.....	4,723	4,966	5,027	4,830	4,429	4,449	4,538	4,459	4,406	4,560	4,820	5,033	<b>5,169</b>	83.9
Males.....	2,633	2,747	2,739	2,658	2,482	2,446	<i>2,422</i>	2,494	2,515	2,545	2,712	2,845	<b>2,981</b>	81.0
Females.....	2,090	2,219	2,288	2,172	2,047	2,003	<i>1,916</i>	1,965	1,981	2,015	2,108	2,188	<b>2,178</b>	82.7
MARLBOROUGH.....	3,798	3,819	3,691	3,545	3,659	3,780	3,882	3,852	3,926	3,943	3,987	4,037	<b>4,037</b>	85.9
Males.....	2,510	2,482	2,432	2,382	<i>2,314</i>	2,433	2,497	2,502	2,548	2,624	2,604	2,616	<b>2,686</b>	88.1
Females.....	1,288	1,337	1,259	1,163	<i>1,165</i>	1,226	1,285	1,320	1,304	1,302	1,383	1,371	<b>1,411</b>	81.6
MEDFORD.....	1,031	<i>922</i>	997	1,028	981	962	997	989	1,020	1,086	1,182	1,260	<b>1,260</b>	73.2
Males.....	706	<i>629</i>	646	687	705	689	675	688	687	710	731	784	<b>841</b>	74.8
Females.....	325	293	312	323	276	273	322	309	302	310	355	398	<b>419</b>	66.1
MELROSE.....	1,606	<i>1,787</i>	1,785	1,734	1,574	1,550	1,477	<i>1,469</i>	1,405	1,480	1,567	1,672	<b>1,722</b>	81.6
Males.....	720	<i>817</i>	881	894	862	862	840	<i>811</i>	823	830	870	920	<b>972</b>	66.6
Females.....	886	970	904	840	712	688	637	658	582	650	697	752	<b>750</b>	87.9
METHUEN.....	2,571	2,588	<i>2,149</i>	2,301	2,346	2,457	2,574	2,649	2,664	2,722	2,772	2,800	<b>2,830</b>	75.9
Males.....	1,040	1,041	<i>842</i>	918	934	987	1,045	1,067	1,102	1,107	1,128	1,144	<b>1,165</b>	72.3
Females.....	1,531	1,547	<i>1,307</i>	1,383	1,412	1,470	1,529	1,582	1,562	1,615	1,644	1,656	<b>1,665</b>	78.6
MILFORD.....	1,809	1,828	1,781	1,828	1,740	<i>1,671</i>	1,690	1,684	1,733	1,772	1,900	1,965	<b>2,132</b>	78.4
Males.....	1,198	1,161	1,108	1,147	1,098	<i>1,094</i>	1,134	1,153	1,199	1,215	1,284	1,341	<b>1,442</b>	75.9
Females.....	611	667	673	681	642	577	556	531	534	557	616	624	<b>690</b>	77.0
NATICK.....	1,463	<i>1,196</i>	1,274	1,305	1,334	1,413	1,489	1,511	1,528	1,558	1,590	1,668	<b>1,690</b>	70.8
Males.....	1,099	<i>917</i>	975	980	1,001	1,056	1,102	1,115	1,135	1,171	1,185	1,260	<b>1,293</b>	70.9
Females.....	364	279	299	325	333	357	387	396	395	387	405	408	<b>397</b>	68.4
NEW BEDFORD.....	41,630	40,821	40,152	40,403	<i>39,858</i>	40,739	41,260	42,352	42,102	42,854	42,246	42,582	<b>44,197</b>	90.2
Males.....	24,773	24,074	23,609	23,757	<i>23,549</i>	24,168	24,476	25,255	25,239	25,629	25,630	25,492	<b>26,498</b>	88.9
Females.....	16,857	16,747	16,543	16,646	<i>16,309</i>	16,571	16,784	17,097	16,863	17,225	16,716	17,090	<b>17,699</b>	92.1
NEWBURYPORT.....	3,960	3,899	3,832	3,821	3,844	3,981	3,960	3,942	<i>3,848</i>	3,888	3,954	4,023	<b>4,036</b>	95.0
Males.....	2,460	2,398	<i>2,322</i>	2,450	2,498	2,511	2,463	2,454	2,418	2,462	2,451	2,511	<b>2,512</b>	95.2
Females.....	1,500	1,501	1,510	1,371	1,346	1,470	1,497	1,488	<i>1,424</i>	1,426	1,503	1,512	<b>1,524</b>	90.6
Newton.....	2,547	2,372	2,368	2,371	2,344	2,346	2,474	2,599	2,700	2,751	2,755	2,759	<b>2,777</b>	83.5
Males.....	1,729	1,651	1,639	<i>1,674</i>	1,600	1,603	1,671	1,742	1,819	1,861	1,849	1,854	<b>1,885</b>	83.5
Females.....	818	721	729	745	744	743	803	857	881	890	906	905	<b>892</b>	79.6
NORTH ADAMS.....	6,023	5,932	5,681	5,675	5,788	<i>5,451</i>	6,013	6,139	6,223	6,225	6,230	6,420	<b>6,499</b>	83.9
Males.....	4,020	3,964	3,768	3,789	3,845	<i>3,615</i>	3,993	4,068	4,158	4,166	4,173	4,331	<b>4,370</b>	82.7
Females.....	2,003	1,968	1,913	1,886	1,943	<i>1,836</i>	2,020	2,071	2,065	2,059	2,057	2,089	<b>2,129</b>	86.2



## MANUFACTURES—MASSACHUSETTS.

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

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

INDUSTRY AND CITY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Percent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
NORTHAMPTON.....	3,532	<i>3,274</i>	3,350	3,343	3,389	3,496	3,400	3,587	3,655	3,604	3,732	3,757	3,797	86.2
Males.....	2,231	<i>2,088</i>	2,109	2,101	2,140	2,214	2,147	2,281	2,348	2,303	2,346	2,358	2,357	87.7
Females.....	1,301	<i>1,206</i>	1,241	1,242	1,249	1,282	1,253	1,306	1,307	1,301	1,386	1,399	1,440	83.8
NORTHBRIDGE.....	3,871	3,713	3,711	<i>3,608</i>	3,613	3,650	3,780	3,917	3,927	3,977	4,094	4,208	4,259	84.6
Males.....	3,273	3,054	3,091	<i>3,039</i>	3,054	3,101	3,207	3,361	3,345	3,394	3,470	3,550	3,610	84.2
Females.....	598	659	620	<i>569</i>	559	549	573	556	582	583	624	658	649	83.3
NORWOOD.....	2,835	<i>2,512</i>	2,565	2,575	2,616	2,670	2,711	2,865	3,020	3,080	3,113	3,134	3,159	79.5
Males.....	2,250	<i>2,014</i>	2,048	2,081	2,093	2,111	2,135	2,271	2,371	2,449	2,465	2,469	2,490	80.9
Females.....	585	498	517	<i>494</i>	523	559	576	594	649	631	648	665	669	73.8
PEABODY.....	8,013	<i>7,303</i>	7,497	7,483	7,396	7,707	8,011	8,050	8,468	8,559	8,212	8,664	8,801	83.0
Males.....	7,206	<i>6,611</i>	6,699	6,692	6,611	6,907	7,171	7,224	7,643	7,740	7,587	7,764	7,923	82.2
Females.....	807	792	798	793	785	800	840	826	825	819	625	900	878	69.4
PITTSFIELD.....	8,570	<i>6,756</i>	7,618	7,669	8,069	8,367	8,312	8,568	8,819	9,128	9,442	9,834	10,258	65.9
Males.....	6,330	<i>5,072</i>	5,772	5,763	6,065	6,170	6,155	6,349	6,469	6,621	6,822	7,174	7,522	67.4
Females.....	2,240	<i>1,684</i>	1,846	1,903	2,004	2,197	2,157	2,219	2,350	2,507	2,620	2,660	2,736	61.5
PLYMOUTH.....	2,971	<i>2,515</i>	2,562	2,997	2,887	2,854	2,994	3,135	3,165	3,136	3,075	3,107	3,225	78.0
Males.....	2,315	<i>1,946</i>	2,025	2,395	2,288	2,209	2,336	2,412	2,448	2,412	2,443	2,402	2,464	79.0
Females.....	656	569	537	602	599	645	658	723	717	724	632	705	761	70.6
QUINCY.....	19,653	21,143	21,755	<i>22,979</i>	22,048	22,128	21,605	21,162	20,162	18,611	17,059	14,518	<i>12,686</i>	55.1
Males.....	19,122	20,678	21,292	<i>22,492</i>	21,533	21,628	21,058	20,625	19,599	18,071	16,488	13,922	<i>12,080</i>	53.7
Females.....	531	465	463	<i>487</i>	515	502	547	537	563	540	571	596	596	77.7
REVERE.....	126	127	126	112	89	101	121	133	134	136	124	148	161	55.3
Males.....	111	117	116	100	77	85	99	121	112	118	112	136	139	55.4
Females.....	15	10	10	12	12	16	22	12	22	18	12	12	22	45.5
SALEM.....	5,672	5,575	5,494	5,250	5,242	<i>4,894</i>	5,479	5,806	6,102	6,162	5,147	6,390	6,523	75.0
Males.....	3,621	3,435	3,382	3,229	3,264	<i>3,045</i>	3,740	3,553	3,740	3,782	3,440	3,940	4,064	74.9
Females.....	2,151	2,140	2,112	2,021	1,978	1,851	2,099	2,253	2,362	2,380	1,707	2,450	2,459	69.4
SAUGUS.....	126	87	90	81	<i>66</i>	89	92	135	160	150	187	193	182	34.2
Males.....	97	57	60	59	<i>45</i>	63	65	102	125	120	155	162	151	27.8
Females.....	29	30	30	22	<i>21</i>	26	27	33	35	30	32	31	31	60.0
SOMERVILLE.....	6,111	6,833	6,853	6,783	6,338	6,249	6,381	6,517	6,342	6,132	5,635	<i>5,764</i>	5,505	54.9
Males.....	5,614	6,200	6,358	6,276	5,841	5,774	5,902	6,021	5,877	5,655	5,132	<i>5,266</i>	4,956	51.7
Females.....	497	543	495	507	497	475	479	496	465	477	503	478	549	84.7
SOUTHBRIDGE.....	5,329	5,117	5,207	<i>4,955</i>	5,022	5,072	5,409	5,181	5,609	5,670	5,433	5,618	5,675	87.0
Males.....	3,147	2,995	3,075	<i>2,925</i>	2,967	3,019	3,179	3,082	3,300	3,331	3,238	3,305	3,368	86.8
Females.....	2,182	2,122	2,132	<i>2,030</i>	2,055	2,053	2,230	2,119	2,309	2,339	2,195	2,313	2,307	85.9
SPRINGFIELD.....	18,429	<i>15,469</i>	15,609	16,102	17,639	18,011	18,482	19,029	19,483	19,338	20,190	20,723	21,083	73.3
Males.....	13,548	<i>11,609</i>	12,250	12,943	13,216	13,595	14,063	14,378	14,833	14,611	15,411	14,896	15,339	76.7
Females.....	4,881	3,860	<i>3,350</i>	3,159	4,423	4,796	4,887	4,966	5,105	5,345	5,679	5,827	5,744	65.7
TAUNTON.....	8,981	8,799	8,524	<i>8,521</i>	8,634	8,645	8,811	9,165	9,302	9,296	9,325	9,385	9,365	90.8
Males.....	6,500	6,303	6,040	<i>6,040</i>	6,066	6,200	6,280	6,620	6,819	6,782	6,833	6,880	6,827	87.8
Females.....	2,481	2,496	2,484	2,481	2,434	2,385	2,441	2,545	2,483	2,514	2,492	2,505	2,538	93.7
WAKEFIELD.....	1,869	1,867	1,805	1,710	<i>1,666</i>	1,769	1,784	1,863	1,882	1,910	2,000	2,046	2,126	78.4
Males.....	1,152	1,062	1,048	1,038	<i>1,004</i>	1,094	1,114	1,190	1,182	1,182	1,236	1,260	1,348	77.0
Females.....	717	805	757	672	<i>662</i>	675	670	673	700	728	764	786	778	77.8
WALTHAM.....	8,069	7,563	7,583	<i>7,430</i>	7,551	7,735	7,743	8,086	8,283	8,525	8,650	8,790	8,909	83.4
Males.....	5,061	4,562	4,627	<i>4,479</i>	4,641	4,756	4,892	5,052	5,250	5,437	5,570	5,677	5,739	77.4
Females.....	3,008	3,001	2,956	2,951	2,910	2,979	<i>2,851</i>	3,014	3,033	3,088	3,080	3,113	3,170	91.4
WATERTOWN.....	8,420	8,770	8,741	8,270	8,119	7,854	7,780	8,032	8,189	8,095	8,570	9,241	9,439	81.8
Males.....	5,455	5,412	5,432	5,252	5,237	5,208	5,225	5,351	5,384	5,316	5,573	5,991	6,079	85.7
Females.....	2,965	3,358	3,309	3,018	2,882	2,646	<i>2,496</i>	2,681	2,805	2,779	2,997	3,250	3,360	74.3
WEBSTER.....	3,849	3,473	3,362	<i>3,268</i>	3,542	3,714	3,837	4,074	4,137	4,245	4,345	4,030	4,143	75.6
Males.....	2,581	2,249	2,175	<i>2,120</i>	2,328	2,455	2,591	2,755	2,800	2,903	2,971	2,768	2,857	71.4
Females.....	1,268	1,224	1,187	<i>1,148</i>	1,214	1,259	1,246	1,319	1,337	1,342	1,374	1,262	1,286	84.9
WESTFIELD.....	3,243	3,048	3,060	3,132	3,118	3,169	<i>3,015</i>	2,982	3,245	3,406	3,535	3,607	3,701	78.7
Males.....	2,528	2,351	2,360	2,467	2,470	2,515	<i>2,447</i>	2,274	2,523	2,646	2,750	2,815	2,918	77.0
Females.....	715	697	700	665	<i>648</i>	654	666	708	722	760	785	792	783	81.8
WEST SPRINGFIELD.....	2,791	2,502	<i>2,466</i>	2,645	2,469	2,562	2,790	2,950	2,785	2,977	3,051	3,164	3,171	76.5
Males.....	2,487	2,200	<i>2,162</i>	2,353	2,244	2,364	2,598	2,627	2,496	2,686	2,729	2,794	2,827	77.2
Females.....	304	302	304	292	<i>225</i>	298	298	323	289	341	322	370	344	60.8
WEYMOUTH.....	2,146	<i>1,977</i>	2,024	2,039	2,011	2,056	2,101	2,271	2,298	2,251	2,170	2,266	2,288	86.0
Males.....	1,453	<i>1,345</i>	1,366	1,385	1,385	1,385	1,417	1,501	1,529	1,497	1,479	1,560	1,568	84.8
Females.....	693	632	658	654	<i>626</i>	676	684	770	769	754	691	706	720	81.3
WINCHESTER.....	1,112	1,021	<i>1,009</i>	1,039	1,040	1,117	1,156	1,085	1,184	1,163	1,155	1,177	1,198	84.2
Males.....	990	902	<i>893</i>	916	930	997	1,034	989	1,061	1,041	1,030	1,048	1,069	83.5
Females.....	122	119	116	123	<i>110</i>	120	122	126	123	122	125	129	129	85.8
WINTHROP.....	61	<i>59</i>	59	59	59	59	60	62	64	61	62	64	64	92.2
Males.....	30	<i>28</i>	28	28	29	29	30	32	31	31	31	31	31	87.5
Females.....	31	31	31	31	<i>30</i>	30	30	30	33	30	31	33	33	90.9
WOBURN.....	2,011	1,824	1,804	1,780	<i>1,688</i>	1,878	2,034	2,054	2,129	2,182	2,194	2,242	2,323	72.7
Males.....	1,719	1,602	1,554	1,524	<i>1,437</i>	1,616	1,730	1,725	1,798	1,864	1,876	1,914	2,003	71.7
Females.....	292	<i>222</i>	250	256	<i>251</i>	262	304	329	336	318	318	328	320	69.0
WORCESTER.....	38,673	38,716	36,857	36,581	36,484	36,763	37,237	<i>36,094</i>	39,137	39,325	41,250	42,196	<i>43,436</i>	83.1
Males.....	30,249	30,359	29,181	28,895	28,787	28,745	28,979	<i>27,689</i>	30,506	30,606	32,165	32,850	<i>33,910</i>	82.2
Females.....	8,424	8,357	<i>7,676</i>	7,686	7,697	8,018	8,258	8,405	8,631	8,603	9,085	9,346	9,526	80.6



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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
All industries.....	1919	713,880	54,454	38,904	436,806	109,036	40,902	27,012	5,655	1,067
	1914	606,698	( <sup>2</sup> )	( <sup>2</sup> )	49,353	68,221	340,219	123,488	21,014	8,798
	1909	584,559	( <sup>2</sup> )	( <sup>2</sup> )	28,484	28,555	103,114	380,223	35,887	7,296
Ammunition <sup>3</sup> .....	1919	2,449			2,304	110			35	
Automobile bodies and parts.....	1919	3,541	114	138	1,192	1,992	82	3		20
	1914	1,341	( <sup>2</sup> )	( <sup>2</sup> )	18	363	910	17	38	
Belting and hose, rubber <sup>3</sup> .....	1919	2,441			2,118	323				
Bookbinding and blank-book making.....	1919	2,936	445	37	2,321	6	113		14	
	1914	3,317	( <sup>2</sup> )	( <sup>2</sup> )	2,185	315	300	617		
Boot and shoe cut stock.....	1919	4,031	180	1,152	1,934	1,142	226	47		
	1914	3,781	( <sup>2</sup> )	( <sup>2</sup> )	80	1,109	1,438	1,037	117	
Boot and shoe findings.....	1919	5,896	269	1,134	2,619	1,234	226	130	284	
	1914	4,389	( <sup>2</sup> )	( <sup>2</sup> )	314	371	2,025	1,575	104	
Boots and shoes, not including rubber boots and shoes.....	1919	80,166	4,326	23,955	40,506	8,086	3,137	156		
	1914	76,944	( <sup>2</sup> )	( <sup>2</sup> )	1,089	12,224	42,064	21,282	275	
Boots and shoes, rubber.....	1919	13,062			13,056	6				
	1914	8,087					8,087			
Boxes, paper and other, not elsewhere specified.....	1919	4,711	339	561	2,780	965	66			
	1914	4,244	( <sup>2</sup> )	( <sup>2</sup> )	106	1,347	2,103	565	123	
Boxes, wooden packing, except cigar boxes.....	1919	3,232	1	70	504	2,009	248	310		
	1914	2,995	( <sup>2</sup> )	( <sup>2</sup> )	20	624	936	1,338	77	
Brass, bronze, and copper products.....	1919	2,832	100	50	909	1,112	42	610	9	
	1914	1,620	( <sup>2</sup> )	( <sup>2</sup> )	8	111	453	470	583	
Bread and other bakery products.....	1919	8,583	189	663	5,099	529	1,689	176	251	37
	1914	8,083	( <sup>2</sup> )	( <sup>2</sup> )	614	182	3,889	1,069	1,286	148
Carpets and rugs, other than rag.....	1919	3,134	32		2,525	577				
	1914	5,319				103	5,046	170		
Cars and general shop construction and repairs by steam-railroad companies.....	1919	7,724			7,724					
	1914	6,264				4,089	2,225			
Chemicals.....	1919	2,483	1	4	838	1,430	74	117	19	
	1914	1,395	( <sup>2</sup> )	( <sup>2</sup> )	17	10	535	811	11	11
Chocolate and cocoa products.....	1919	2,007			1,900		107			
	1914	943	( <sup>2</sup> )	( <sup>2</sup> )	1	312	592	38		
Clothing, men's.....	1919	6,856	4,127	99	2,206	406	15		3	
	1914	5,760	( <sup>2</sup> )	( <sup>2</sup> )	634	2,835	2,223	60	8	
Clothing, women's.....	1919	6,271	3,549	286	2,336	88	12			
	1914	6,076	( <sup>2</sup> )	( <sup>2</sup> )	379	3,583	2,100	9		
Confectionery and ice cream.....	1919	11,585	271	2,941	7,211	692	406	18	23	23
	1914	7,250	( <sup>2</sup> )	( <sup>2</sup> )	1,046	3,874	1,222	240	235	33
Cordage and twine <sup>4</sup> .....	1919	2,743			933	12	1,798			
Cotton goods.....	1919	122,499	368	10	109,859	3,174	7,750	1,343		
	1914	112,609	( <sup>2</sup> )	( <sup>2</sup> )	1,051	793	109,662	1,103		
Cutlery and edge tools.....	1919	3,988	7	14	2,019	1,054	428	432	34	
	1914	1,947	( <sup>2</sup> )	( <sup>2</sup> )	170	1,085	413	279		
Dyeing and finishing textiles, exclusive of that done in textile mills.....	1919	12,321	186		8,559	877	1,540	1,013	43	103
	1914	11,437	( <sup>2</sup> )	( <sup>2</sup> )	19	157	5,573	5,510	144	34
Electrical machinery, apparatus, and supplies.....	1919	23,889	250	878	19,380	3,060	112	39	170	
	1914	17,125	( <sup>2</sup> )	( <sup>2</sup> )	637	2,205	10,519	3,763	1	
Emery and other abrasive wheels.....	1919	2,443	2	4	81	2,302		54		
	1914	902					26	857	19	
Firearms.....	1919	2,253	1		691		712	849		
	1914	2,161					470	1,068	623	
Foundry and machine-shop products <sup>4</sup> .....	1919	51,680	5,252	450	15,232	20,989	3,783	5,925	48	
	1914	32,687	( <sup>2</sup> )	( <sup>2</sup> )	586	7,536	10,232	13,690	643	
Furniture.....	1919	6,342	728	63	1,202	3,839	162	334	14	
	1914	6,813	( <sup>2</sup> )	( <sup>2</sup> )	612	882	577	2,832	1,910	
Gas, illuminating and heating.....	1919	2,654	1		633	42	16	1,954		8
	1914	3,132	( <sup>2</sup> )	( <sup>2</sup> )	329		22	749	437	1,645
Iron and steel, steel works and rolling mills.....	1919	3,684	9	417	340	36	89	417	2,376	
	1914	2,889	( <sup>2</sup> )	( <sup>2</sup> )	15	55	257	368	2,194	
Iron and steel, forgings, not made in steel works or rolling mills.....	1919	2,172			1,042	1,004	105	21		
	1914	683				47	419	217		
Jewelry.....	1919	6,788	239	6	4,114	1,733	275	410		
	1914	6,505	( <sup>2</sup> )	( <sup>2</sup> )	384	451	1,453	4,267		
Knit goods.....	1919	12,751	25	14	12,292	60	236	124		
	1914	10,635	( <sup>2</sup> )	( <sup>2</sup> )	9	496	9,702	409	19	

<sup>1</sup> Includes 48 and under for 1914 and 1909.<sup>2</sup> Corresponding figures not available.<sup>3</sup> Not shown separately in 1914.<sup>4</sup> Includes "iron and steel, tempering and welding"; "machine tools"; and "textile machinery and parts."



## MANUFACTURES—MASSACHUSETTS.

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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Leather, tanned, curried, and finished.....	1919	15,180	288	63	11,240	2,829	298	462	.....	.....
	1914	10,164	(*)	(*)	244	283	4,071	5,043	523	.....
Lumber, planing-mill products, not including planing mills connected with sawmills.	1919	2,245	601	1	944	444	96	159	.....	.....
	1914	3,423	(*)	(*)	893	1,368	754	233	175	.....
Motorcycles, bicycles, and parts.....	1919	3,000	.....	.....	2,220	45	572	163	.....	.....
	1914	2,135	.....	.....	.....	1	573	1,561	.....	.....
Musical instruments, pianos.....	1919	2,228	171	.....	1,367	690	.....	.....	.....	.....
	1914	2,352	(*)	(*)	240	448	1,567	97	.....	.....
Optical goods.....	1919	4,082	9	62	3,880	107	4	20	.....	.....
	1914	2,356	(*)	(*)	4	18	2,050	279	5	.....
Paper and wood pulp.....	1919	12,060	2,453	.....	7,533	2,263	.....	74	359	278
	1914	13,401	(*)	(*)	5,171	1,705	3,149	2,006	620	750
Printing and publishing, book and job.....	1919	7,634	370	104	6,485	601	54	13	7	.....
	1914	7,062	(*)	(*)	5,570	967	452	73	.....	.....
Printing and publishing, newspapers and periodicals.....	1919	5,885	1,408	138	4,155	107	62	6	9	.....
	1914	6,032	(*)	(*)	5,116	353	512	45	6	.....
Pumps, steam.....	1919	2,280	.....	.....	1,370	828	.....	82	.....	.....
	1914	1,194	.....	.....	.....	.....	646	548	.....	.....
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1919	9,406	6	190	3,519	5,214	225	252	.....	.....
	1914	4,743	.....	.....	.....	246	143	4,348	6	.....
Silk goods, including throwsters.....	1919	5,697	.....	205	2,915	2,567	.....	10	.....	.....
	1914	4,495	(*)	(*)	330	22	4,123	.....	.....	20
Slaughtering and meat packing.....	1919	4,307	409	.....	3,832	36	27	.....	3	.....
	1914	3,233	(*)	(*)	42	28	995	967	1,201	.....
Stationery goods, not elsewhere specified.....	1919	3,305	10	3	3,172	120	.....	.....	.....	.....
	1914	2,467	(*)	(*)	430	151	1,088	798	.....	.....
Steam fittings and steam and hot-water heating apparatus.....	1919	3,521	24	.....	1,956	1,541	.....	.....	.....	.....
	1914	3,175	(*)	(*)	219	203	549	1,118	1,086	.....
Suspenders, garters, and elastic woven goods.....	1919	2,965	44	457	2,120	85	126	.....	133	.....
	1914	2,928	(*)	(*)	547	592	703	1,086	.....	.....
Tobacco, cigars and cigarettes.....	1919	2,946	1,155	860	855	.....	76	.....	.....	.....
	1914	3,895	(*)	(*)	3,698	46	151	.....	.....	.....
Tools, not elsewhere specified.....	1919	7,226	52	461	561	2,410	1,849	1,892	1	.....
	1914	4,538	(*)	(*)	89	417	1,149	2,859	24	.....
Wire.....	1919	5,203	.....	.....	.....	493	.....	4,710	.....	.....
	1914	2,899	.....	.....	.....	.....	.....	870	2,029	.....
Woolen goods.....	1919	17,668	215	6	15,114	594	1,596	43	.....	.....
	1914	13,844	(*)	(*)	50	193	7,771	4,752	1,078	.....
Worsted goods.....	1919	36,296	.....	.....	33,436	931	1,437	250	.....	242
	1914	39,533	.....	.....	.....	1,411	35,133	2,473	516	.....
All other industries.....	1919	129,157	26,333	3,408	53,583	28,242	11,031	4,384	1,820	356
	1914	115,446	(*)	(*)	15,852	14,655	40,167	29,112	5,498	1,162
Total for cities.....	1919	609,671	51,228	38,231	374,462	92,850	30,674	16,746	5,051	429
	1914	505,397	(*)	(*)	41,618	64,930	284,492	95,955	16,170	3,223
ADAMS.....	1919	3,974	1	.....	3,760	74	89	.....	10	40
	1914	3,930	(*)	(*)	13	3	3,507	241	163	3
AMESBURY.....	1919	3,173	1	25	241	2,532	327	47	.....	.....
	1914	1,451	(*)	(*)	80	7	1,340	.....	11	13
ARLINGTON.....	1919	228	7	.....	46	130	13	32	.....	.....
	1914	246	(*)	(*)	85	14	97	50	.....	.....
ATTLEBORO.....	1919	6,763	44	16	4,260	2,030	118	290	.....	5
	1914	6,058	(*)	(*)	28	89	1,821	3,962	143	15
BELMONT.....	1919	93	16	.....	55	22	.....	.....	.....	.....
BEVERLY.....	1919	6,495	4,656	1,442	111	250	36	.....	.....	.....
	1914	4,641	(*)	(*)	21	3,129	846	527	118	.....
BOSTON.....	1919	88,759	15,132	7,934	46,861	13,398	3,457	534	1,422	21
	1914	78,894	(*)	(*)	18,662	30,167	21,962	6,881	738	484
BRAINTREE.....	1919	2,176	12	1	849	41	1,254	19	.....	.....
BROCKTON.....	1919	18,059	106	3,002	13,801	906	174	47	23	.....
	1914	16,246	(*)	(*)	586	478	14,862	306	14	.....
BROOKLINE.....	1919	484	22	188	217	48	4	.....	5	.....
	1914	335	(*)	(*)	35	241	59	.....	.....	.....
CAMBRIDGE.....	1919	22,550	2,175	1,900	12,296	4,523	1,107	410	127	12
	1914	16,749	(*)	(*)	3,430	2,880	8,924	692	570	253
CHELSEA.....	1919	6,580	112	.....	3,364	2,623	458	22	.....	1
	1914	6,241	(*)	(*)	1,000	2,203	1,962	884	189	3

<sup>1</sup>Includes 48 and under for 1914 and 1909.

\*Corresponding figures not available.



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INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48. <sup>1</sup>	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
CHICOPEE.....	1919	10,068	60	.....	2,185	5,027	2,779	.....	14	3
	1914	8,420	( <sup>2</sup> )	( <sup>2</sup> )	70	269	5,425	2,218	440	4
CLINTON.....	1919	4,155	1	2	3,424	88	15	624	1	.....
	1914	4,064	.....	.....	13	3,493	540	.....	12	6
DANVERS.....	1919	1,474	19	116	608	516	6	209	.....	.....
DEDHAM.....	1919	463	7	4	332	3	.....	117	.....	.....
	1914	258	( <sup>2</sup> )	( <sup>2</sup> )	14	8	11	221	2	.....
EASTHAMPTON.....	1919	4,142	5	.....	4,027	45	14	10	41	.....
EVERETT.....	1919	4,523	69	645	1,609	1,601	143	360	6	.....
	1914	3,226	( <sup>2</sup> )	( <sup>2</sup> )	147	432	1,509	469	24	645
FALL RIVER.....	1919	37,015	229	6	35,968	360	257	176	19	.....
	1914	36,334	( <sup>2</sup> )	( <sup>2</sup> )	535	559	33,203	2,207	310	20
FITCHBURG.....	1919	9,907	30	10	6,725	2,044	652	.....	22	.....
	1914	8,837	( <sup>2</sup> )	( <sup>2</sup> )	1,257	672	5,473	635	718	82
FRAMINGHAM.....	1919	4,362	30	5	3,875	394	7	.....	.....	51
	1914	3,982	( <sup>2</sup> )	( <sup>2</sup> )	236	1,929	1,224	446	137	10
GARDNER.....	1919	4,036	10	.....	213	3,500	163	134	9	7
	1914	3,964	( <sup>2</sup> )	( <sup>2</sup> )	17	.....	547	1,720	1,676	4
GLOUCESTER.....	1919	2,684	12	58	463	1,860	235	25	30	.....
	1914	2,814	( <sup>2</sup> )	( <sup>2</sup> )	409	202	1,993	192	18	.....
GREENFIELD.....	1919	2,750	13	7	135	1,593	136	839	12	15
	1914	1,602	( <sup>2</sup> )	( <sup>2</sup> )	151	21	168	1,172	79	11
HAVERTHILL.....	1919	15,783	1,004	10,318	2,329	1,152	605	96	276	3
	1914	13,281	( <sup>2</sup> )	( <sup>2</sup> )	842	537	5,618	5,808	469	7
HOLYOKE.....	1919	17,773	2,270	10	10,816	4,589	88	2	.....	.....
	1914	17,493	( <sup>2</sup> )	( <sup>2</sup> )	2,679	1,149	9,561	3,644	430	30
LAWRENCE.....	1919	30,319	19	7	29,068	761	460	.....	4	.....
	1914	31,043	( <sup>2</sup> )	( <sup>2</sup> )	350	497	29,405	259	68	464
LEOMINSTER.....	1919	5,793	24	.....	1,385	3,995	292	97	.....	.....
	1914	4,029	( <sup>2</sup> )	( <sup>2</sup> )	5	343	2,116	2,244	221	.....
LOWELL.....	1919	30,111	242	115	27,800	1,186	370	196	9	103
	1914	29,604	( <sup>2</sup> )	( <sup>2</sup> )	584	1,974	25,114	1,996	50	186
LYNN.....	1919	27,355	1,409	10,456	12,031	2,832	130	486	11	.....
	1914	25,839	( <sup>2</sup> )	( <sup>2</sup> )	724	2,173	11,844	10,639	54	5
MALDEN.....	1919	4,723	453	46	3,485	201	390	144	3	1
	1914	2,850	( <sup>2</sup> )	( <sup>2</sup> )	188	524	1,898	82	1	159
MARLBOROUGH.....	1919	3,798	7	5	3,775	1	4	.....	6	.....
	1914	3,822	( <sup>2</sup> )	( <sup>2</sup> )	77	24	221	3,496	4	.....
MEDFORD.....	1919	1,031	28	12	845	127	19	.....	.....	.....
	1914	559	( <sup>2</sup> )	( <sup>2</sup> )	26	167	213	118	35	.....
MELROSE.....	1919	1,606	85	4	1,486	15	16	.....	.....	.....
	1914	962	( <sup>2</sup> )	( <sup>2</sup> )	16	142	776	28	.....	.....
METHUEN.....	1919	2,571	4	2	2,402	6	151	.....	6	.....
	1914	1,940	( <sup>2</sup> )	( <sup>2</sup> )	1	1	1,889	17	32	.....
MILFORD.....	1919	1,809	62	.....	1,537	20	182	8	.....	.....
	1914	1,749	( <sup>2</sup> )	( <sup>2</sup> )	246	209	1,042	224	22	6
NATICK.....	1919	1,463	306	17	1,048	80	5	7	.....	.....
	1914	1,347	( <sup>2</sup> )	( <sup>2</sup> )	124	75	971	158	19	.....
NEW BEDFORD.....	1919	41,630	69	26	32,763	4,108	3,872	408	848	36
	1914	33,343	( <sup>2</sup> )	( <sup>2</sup> )	635	249	30,286	1,701	870	102
NEWBURYPORT.....	1919	3,960	18	364	1,443	1,639	328	168	.....	.....
	1914	3,349	( <sup>2</sup> )	( <sup>2</sup> )	28	127	1,369	1,800	9	16
NEWTON.....	1919	2,547	70	11	1,523	885	25	5	23	.....
	1914	2,154	( <sup>2</sup> )	( <sup>2</sup> )	330	863	759	144	58	.....
NORTH ADAMS.....	1919	6,023	29	.....	5,291	.....	428	201	.....	.....
	1914	5,288	( <sup>2</sup> )	( <sup>2</sup> )	1,165	489	1,309	2,259	37	29
NORTHAMPTON.....	1919	3,532	1	.....	2,526	718	247	28	.....	12
	1914	3,446	( <sup>2</sup> )	( <sup>2</sup> )	151	299	2,399	542	36	19
NORTHBRIDGE.....	1919	3,871	2	.....	1,279	2,584	6	.....	.....	.....
NORWOOD.....	1919	2,835	252	.....	2,455	104	17	7	.....	.....
PEABODY.....	1919	3,013	250	79	6,745	397	540	.....	2	.....
	1914	5,485	( <sup>2</sup> )	( <sup>2</sup> )	19	105	3,279	1,470	603	.....
PITTSFIELD.....	1919	8,570	19	.....	7,933	494	27	82	15	.....
	1914	7,490	( <sup>2</sup> )	( <sup>2</sup> )	228	31	1,295	5,832	104	.....
PLYMOUTH.....	1919	2,971	.....	.....	1,073	5	1,887	.....	.....	6
	1914	2,845	( <sup>2</sup> )	( <sup>2</sup> )	6	2	2,292	526	.....	19

<sup>1</sup> Includes 48 and under for 1914 and 1909.<sup>2</sup> Corresponding figures not available.



## MANUFACTURES—MASSACHUSETTS.

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

INDUSTRY AND CITY.	Census year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							
			44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
QUINCY.....	1919	19,653	17,789	3	1,157	320	381	—	3	—
	1914	5,783	(2)	(2)	1,244	3,304	1,125	36	14	—
REVERE.....	1919	126	1	3	95	11	11	—	5	—
	1914	80	(2)	(2)	11	1	55	13	—	—
SALEM.....	1919	5,672	1,096	313	3,079	460	724	—	—	—
	1914	5,294	(2)	(2)	128	701	2,807	1,383	275	—
SAUGUS.....	1919	126	1	3	83	8	31	—	—	—
SOMERVILLE.....	1919	6,111	459	106	3,728	1,267	264	232	34	21
	1914	5,429	(2)	(2)	351	1,032	1,625	1,254	1,167	—
SOUTHBRIDGE.....	1919	5,329	3	—	3,441	535	1,310	35	5	—
	1914	4,332	(2)	(2)	10	—	3,712	603	7	—
SPRINGFIELD.....	1919	18,429	1,124	37	14,616	1,876	485	278	13	—
	1914	14,240	(2)	(2)	1,716	1,955	5,381	4,379	560	249
TAUNTON.....	1919	8,981	66	41	5,313	1,831	731	921	76	2
	1914	7,371	(2)	(2)	212	257	4,741	2,025	37	99
WAKEFIELD.....	1919	1,869	5	247	1,427	190	—	—	—	—
	1914	2,008	(2)	(2)	38	28	1,158	779	5	—
WALTHAM.....	1919	8,069	285	286	6,418	548	478	44	—	10
	1914	6,465	(2)	(2)	70	90	1,483	4,806	16	—
WATERTOWN.....	1919	8,420	2	2	8,012	362	42	—	—	—
	1914	4,787	(2)	(2)	5	7	4,355	416	3	—
WEBSTER.....	1919	3,849	8	—	2,786	550	548	—	7	—
	1914	3,246	(2)	(2)	13	1,776	839	573	45	—
WESTFIELD.....	1919	3,243	33	7	1,221	571	1,330	13	—	68
	1914	3,584	(2)	(2)	162	27	891	1,223	1,291	—
WEST SPRINGFIELD.....	1919	2,791	193	—	2,508	63	12	15	—	—
	1914	2,209	(2)	(2)	634	202	1,287	55	31	—
WEYMOUTH.....	1919	2,146	61	—	1,658	160	267	—	—	—
	1914	2,074	(2)	(2)	15	423	1,184	452	—	—
WINCHESTER.....	1919	1,112	19	—	972	119	—	—	2	—
	1914	1,048	(2)	(2)	166	53	28	792	9	—
WINTHROP.....	1919	61	8	—	42	2	9	—	—	—
	1914	16	(2)	(2)	3	—	5	—	8	—
WOBURN.....	1919	2,011	154	44	1,231	522	42	14	4	—
	1914	1,565	(2)	(2)	260	59	426	809	11	—
WORCESTER.....	1919	38,673	529	306	10,167	13,784	2,705	8,712	2,458	12
	1914	29,452	(2)	(2)	1,392	1,659	11,807	10,098	4,716	280

<sup>1</sup> Includes 48 and under for 1914 and 1909.<sup>2</sup> Corresponding figures not available.



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

INDUSTRY AND CITY	TOTAL.		ESTABLISHMENTS EMPLOYING--																	
	Establishments.	Wage earners (average number).	No wage earners.		1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.	
			Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
All industries.....	11,906	713,836	1,086	4,670	11,497	2,680	30,753	1,410	46,214	791	56,499	689	108,715	293	102,019	169	114,064	118	244,045	
Ammunition.....	6	2,449																		
Automobile bodies and parts.....	88	3,541	3	34	77	27	338	9	293	7	496	5	738	2	670	1	923	1	2,304	
Belt and hose, rubber.....	3	2,441																		
Bookbinding and blank-book making.....	94	2,936	7	22	67	41	441	12	834	2	136	9	1,233	1	323	1	880	1	1,238	
Boot and shoe cut stock.....	182	4,631	4	55	180	67	736	32	1,014	14	1,014	8	1,105	2	602					
Boot and shoe findings.....	254	5,896	10	67	174	92	1,132	61	1,960	14	958	9	1,382	1	284					
Boots and shoes, not including rubber boots and shoes.....	493	80,166	6	48	136	62	783	93	3,205	89	6,715	103	17,074	57	20,097	26	17,292	9	14,864	
Boots and shoes, rubber.....	8	13,062																		
Boxes, paper and other, not elsewhere specified.....	102	4,711																		
Boxes, wooden packing, except cigar boxes.....	75	3,232	3	16	47	14	179	23	780	9	671	9	1,223	1	332					
Brass, bronze, and copper products.....	72	2,832	2	29	83	23	264	11	842	2	170	1	151	2	600	2	1,222			
Bread and other bakery products.....	1,309	8,583	102	979	2,332	179	1,646	28	855	8	572	10	1,491	1	340	2	1,346			
Carpets and rugs, other than rag.....	10	3,134																		
Cars and general shop construction and repairs by steam-railroad companies.....	14	7,724																		
Chemicals.....	27	2,483	3	7	20	6	62	5	165	1	72	5	849	2	814	1	927	3	4,938	
Chocolate and cocoa products.....	6	2,007																		
Clothing, men's.....	207	6,856	6	56	154	80	952	42	1,431	11	776	6	930	5	1,861	1	752			
Clothing, women's.....	258	6,271	5	42	155	104	1,289	84	2,637	17	1,086	4	463	2	641					
Confectionery and ice cream.....	273	11,585	16	143	315	61	656	23	819	11	696	13	2,184	6	2,151	3	2,080	2	2,734	
Cordage and twine.....	13	2,743																		
Cotton goods.....	191	122,499																		
Cutlery and edge tools.....	51	3,988	1	13	34	21	238	3	106	3	217	7	963	2	537					
Dyeing and finishing textiles, exclusive of that done in textile mills.....	62	12,321																		
Electrical machinery, apparatus, and supplies.....	110	23,889	3	21	71	32	393	17	555	15	1,034	10	1,683	6	1,948	2	1,261	4	16,939	
Emery and other abrasive wheels.....	14	2,443																		
Firearms.....	5	2,253																		
Foundry and machine-shop products.....	574	27,712	17	172	449	162	1,959	101	3,218	65	4,885	39	5,899	14	4,660	2	1,554	2	5,588	
Furniture.....	161	6,342	5	49	143	45	592	33	1,060	19	1,328	6	902	2	589	1	644	1	1,084	
Gas, illuminating and heating.....	51	2,654	1	10	27	18	208	11	387	4	277	6	875	3	855					
Iron and steel, steel works and rolling mills.....	11	3,684																		
Iron and steel, forgings, not made in steel works or rolling mills.....	14	2,172																		
Jewelry.....	165	6,786	4	39	89	33	414	39	1,335	35	2,310	14	2,236	1	402					
Knit goods.....	77	12,751	3	13	43	12	149	13	483	12	809	13	1,952	5	1,716	4	2,299	2	5,270	
Leather, tanned, curried, and finished.....	131	15,180	1	10	25	32	431	37	1,203	20	1,533	22	3,354	3	938	4	2,560	2	5,136	
Lumber, planing-mill products, not including planing mills connected with saw-mills.....	146	2,245	3	55	140	59	699	20	647	8	586	1	173							
Machine tools.....	46	6,471																		
Motorcycles, bicycles, and parts.....	8	3,000																		
Musical instruments, pianos.....	14	2,228																		
Optical goods.....	29	4,082																		
Paper and wood pulp.....	78	12,960																		
Printing and publishing, book and job.....	768	7,634	172	382	876	148	1,605	45	1,394	11	778	7	1,105							
Printing and publishing, newspapers and periodicals.....	412	5,885	171	117	324	76	823	23	779	14	962	5	776	5	1,690	1	531	1	1,309	
Pumps, steam.....	7	2,280																		
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	47	9,406	1	5	14	7	96	9	289	10	721	10	1,365	2	823	1	571	2	5,527	
Silk goods, including throwsters.....	21	5,697																		
Slaughtering and meat packing.....	40	4,307	3	19	37	8	88	3	108	1	74	1	153	3	1,008					
Stationery goods, not elsewhere specified.....	30	3,305	2	8	22	1	11	3	33	7	504	5	599	2	707	2	1,379			
Steam fittings and steam and hot-water heating apparatus.....	23	3,521	2	5	14	5	72	3	87											
Suspenders, garters, and elastic woven goods.....	29	2,965																		
Textile machinery and parts.....	116	17,413	1	29	91	32	356	16	503	13	916	14	2,240	3	995	3	2,352	5	9,950	
Tobacco, cigars and cigarettes.....	262	2,946	104	117	220	21	205	9	300	5	852	3	451	1	384	2	1,034			
Tools, not elsewhere specified.....	117	7,226	5	48	122	31	369	14	487	5	346	6	1,089	4	1,646	4	3,267			
Wire.....	9	5,203																		
Woolen goods.....	111	17,568																		
Worsted goods.....	71	36,296																		
All other industries.....	4,406	129,241	420	2,011	4,898	1,076	12,205	448	14,427	227	16,268	152	23,445	44	16,637	20	12,640	8	29,721	
Total for cities.....	9,947	608,671	865	3,904	9,895	2,330	26,749	1,195	38,708	633	45,044	528	83,151	243	84,525	142	95,812	107	225,787	
ADAMS.....	32	3,974	5	14	30	4	47	1	38	3	357	3	567							
AMESBURY.....	44	3,173	2	14	34	10	111	6	189	5	394	3	391	3	1,130	1	924			
ARLINGTON.....	27	228	3	11	35	11	111	2	82											
ATTLEBORO.....	144	6,763	9	45	109	29	332	22	724	21	1,448	15	2,465	2	743	1	942			
BELMONT.....	6	93	1	2	8	2	31			1	54									
BEVERLY.....	70	6,495	10	22	60	20	223	9	324	2	146	4	650	2	781					
BOSTON.....	3,077	88,759	322	1,211	3,267	844	9,627	384	12,052	151	10,135	101	15,207	41	14,736	14	9,425	9	14,310	
BRAINTREE.....	19	2,176	1	7	13	5	55	2	71	1	70	1	238							
BROCKTON.....	217	18,059	8	67	177	54	697	33	1,079	19	1,411	21	3,365	6	2,127	7	4,882	2	4,321	
BROOKLINE.....	32	484	4	14	44	9	120	4	137											
CAMBRIDGE.....	339	22,550	23	106	259	89	994	35	1,228	33	2,205	31	4,817	13	4,459	5	2,858	4	5,730	
CHELSEA.....	123	6,580	12	43	103	81	355	19	642	8	175	9	1,351	3	1,043	2	1,719	1	1,162	
CHICOPEE.....	60	10,068	5	21	40	9	99	8	231	7	464	4	686	2	742	2	1,417	2	6,439	
CLINTON.....	33	4,155	3	16	38	4	35	4	133	2	145	1	100							
DANVERS.....	25	1,474	2	5	12	10	94	1	40	2	167	3	543	2	618					



## MANUFACTURES—MASSACHUSETTS.

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

INDUSTRY AND CITY.	TOTAL.		ESTABLISHMENTS EMPLOYING—																	
	Establishments.	Wage earners (average number).	No wage earners.		1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.	
			Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
DEDHAM.....	20	463	4	8	18	5	38	.....	.....	1	88	2	319	.....	.....	.....	.....	.....	.....	.....
EASTHAMPTON.....	28	4,142	4	10	18	6	52	2	80	2	160	1	193	.....	.....	2	1,202	1	2,437	.....
EVERETT.....	104	4,523	4	35	98	24	293	21	623	10	706	6	1,083	3	1,185	1	535	.....	.....	.....
FALL RIVER.....	293	37,015	19	135	323	55	617	17	562	12	847	8	1,299	18	6,775	22	14,950	7	11,642	.....
FITCHBURG.....	121	9,907	8	40	103	24	257	13	431	16	1,203	7	1,172	8	2,805	4	2,541	1	1,395	.....
FRAMINGHAM.....	59	4,362	2	28	55	12	118	5	219	3	234	6	1,064	2	703	.....	.....	1	1,969	.....
GARDNER.....	73	4,036	3	24	50	16	207	11	387	9	643	7	1,052	2	613	.....	.....	1	1,084	.....
GLOUCESTER.....	90	2,684	5	45	112	21	244	11	340	3	227	3	431	1	329	.....	.....	1	1,001	.....
GREENFIELD.....	53	2,760	.....	24	52	17	216	5	154	3	177	2	262	.....	.....	1	596	1	1,293	.....
HAVERHILL.....	405	15,738	19	133	355	97	1,118	82	2,728	31	2,390	31	4,742	11	3,661	1	789	.....	.....	.....
HOLYOKE.....	176	17,773	10	72	177	27	320	13	414	16	1,110	26	4,019	4	1,402	4	2,627	4	7,704	.....
LAWRENCE.....	194	30,819	12	98	215	28	327	21	661	8	578	7	1,352	8	2,865	3	1,760	9	22,561	.....
LEOMINSTER.....	92	5,793	9	19	41	19	259	16	500	12	874	11	1,710	5	1,903	1	508	.....	.....	.....
LOWELL.....	291	30,111	18	141	344	50	619	30	969	15	1,074	18	2,929	4	1,116	6	3,396	9	19,664	.....
LYNN.....	442	27,855	26	167	427	111	1,191	61	2,055	34	2,526	26	4,106	11	4,017	5	3,124	1	9,909	.....
MALDEN.....	108	4,723	14	48	106	21	258	14	451	6	445	3	519	.....	.....	.....	.....	2	2,944	.....
MARLBOROUGH.....	43	3,798	3	28	61	8	84	2	58	2	196	.....	.....	3	1,249	1	920	1	1,230	.....
MEDFORD.....	54	1,031	8	25	55	12	121	2	51	4	293	3	511	.....	.....	.....	.....	1	1,080	.....
MELROSE.....	27	1,006	1	15	40	6	83	3	108	.....	.....	.....	.....	1	295	.....	.....	1	1,183	.....
METHUEN.....	33	2,571	5	17	45	3	37	2	65	2	128	2	334	.....	.....	1	779	1	1,183	.....
MILFORD.....	48	1,809	6	22	49	9	102	3	113	.....	.....	5	753	3	792	.....	.....	.....	.....	.....
NATICK.....	49	1,463	9	18	46	6	56	4	152	8	572	4	637	.....	.....	.....	.....	.....	.....	.....
NEW BEDFORD.....	267	41,630	11	136	324	55	623	18	578	8	556	4	684	4	1,284	16	12,082	15	25,499	.....
NEWBURYPORT.....	64	3,960	7	22	51	11	146	4	141	9	664	6	1,065	4	1,259	1	634	.....	.....	.....
NEWTON.....	49	2,547	8	20	59	9	127	4	120	1	75	5	819	.....	.....	2	1,347	.....	.....	.....
NORTH ADAMS.....	65	6,023	11	20	55	15	152	5	175	1	51	4	611	6	2,227	1	592	2	2,160	.....
NORTHAMPTON.....	63	8,532	8	25	72	15	146	3	84	3	227	5	754	2	754	2	1,495	.....	.....	.....
NORTHBRIDGE.....	13	3,871	.....	8	12	.....	.....	.....	.....	2	155	.....	.....	1	265	1	855	1	2,584	.....
NORWOOD.....	26	2,535	1	7	24	5	60	1	32	4	304	5	740	1	387	2	1,288	.....	.....	.....
PEABODY.....	91	5,013	5	23	64	17	190	20	632	11	837	10	1,543	3	959	1	789	1	2,999	.....
PITTSFIELD.....	90	8,570	8	47	109	12	127	6	178	6	409	4	581	5	1,811	1	835	1	4,520	.....
PLYMOUTH.....	31	2,971	3	13	29	5	53	3	105	4	315	1	223	1	450	.....	.....	1	1,796	.....
QUINCY.....	162	10,553	19	77	238	51	575	7	178	2	119	2	271	1	267	1	887	2	17,118	.....
REVERE.....	31	126	8	18	40	4	40	1	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SALEM.....	153	5,672	12	56	121	39	487	26	816	9	665	6	901	3	908	1	726	1	1,048	.....
SAUGUS.....	14	120	3	7	7	2	18	1	28	1	73	.....	.....	.....	.....	.....	.....	.....	.....	.....
SOMERVILLE.....	140	6,111	14	63	177	27	312	23	706	5	348	4	679	1	869	1	680	2	2,840	.....
SOUTHBIDGE.....	41	5,329	6	14	31	7	83	4	135	2	134	6	802	.....	.....	.....	.....	2	4,144	.....
SPRINGFIELD.....	401	18,429	49	163	485	87	962	37	1,211	22	1,667	23	3,467	11	3,259	7	4,556	2	2,972	.....
TAUNTON.....	187	3,981	11	78	127	16	168	27	953	13	947	12	1,725	6	2,154	3	1,761	1	1,140	.....
WAKEFIELD.....	32	1,899	2	13	25	6	77	5	145	3	202	1	246	.....	.....	2	1,174	.....	.....	.....
WALTHAM.....	93	8,069	5	38	97	22	264	10	356	9	574	3	334	4	1,206	1	795	1	4,393	.....
WATERTOWN.....	25	8,420	2	7	19	4	50	3	80	1	60	3	537	3	951	.....	.....	2	6,723	.....
WEBSTER.....	24	3,849	1	9	27	4	38	2	78	2	152	1	178	3	1,245	1	550	1	1,581	.....
WESTFIELD.....	85	3,243	6	37	91	18	213	13	412	6	449	2	389	1	281	2	1,408	.....	.....	.....
WEST SPRINGFIELD.....	23	2,791	.....	12	18	5	37	.....	.....	2	150	1	191	1	283	1	966	1	1,146	.....
WEYMOUTH.....	34	2,146	4	11	26	5	61	6	188	3	197	1	222	4	1,452	.....	.....	.....	.....	.....
WINCHESTER.....	17	1,112	1	3	7	4	45	3	97	5	395	.....	.....	.....	.....	1	568	.....	.....	.....
WINTHROP.....	19	61	7	10	30	1	8	1	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
WOBURN.....	53	2,011	2	14	42	17	207	9	279	5	375	5	741	1	364	.....	.....	.....	.....	.....
WORCESTER.....	618	33,673	52	203	519	159	1,942	85	2,841	47	3,531	39	6,422	19	6,241	8	4,824	6	12,353	.....

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

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
All classes.....	11,906	12,013	11,684	713,836	606,698	584,559	\$4,011,181,532	\$1,641,373,047	\$1,490,529,385	\$1,750,468,496	\$709,989,254	\$659,764,443
Less than \$5,000.....	1,645	2,885	2,760	990	3,158	3,508	4,384,884	7,434,572	7,162,781	2,864,437	4,860,002	4,767,415
\$5,000 to \$20,000.....	3,211	3,903	3,826	9,526	18,044	19,912	36,152,704	40,782,391	40,731,897	21,034,052	23,879,757	24,009,421
\$20,000 to \$100,000.....	3,511	2,926	2,932	39,270	56,378	61,041	164,770,693	134,938,198	136,992,841	55,780,694	70,427,005	78,120,246
\$100,000 to \$500,000.....	2,149	1,593	1,873	102,035	229,504	222,890	498,897,877	355,053,098	585,830,505	240,921,403	270,904,073	261,501,513
\$500,000 to \$1,000,000.....	575	366	.....	73,906	.....	.....	410,219,829	261,215,922	.....	181,962,468	.....	.....
\$1,000,000 and over.....	815	340	293	488,109	299,614	277,208	2,896,755,545	841,948,896	719,811,362	1,217,905,442	339,918,417	296,365,838
PER CENT DISTRIBUTION.												
All classes.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	13.8	24.0	23.6	0.1	0.5	0.6	0.1	0.5	0.5	0.2	0.7	0.7
\$5,000 to \$20,000.....	27.0	32.5	32.7	1.3	3.0	3.4	0.9	2.5	2.7	1.2	3.3	3.6
\$20,000 to \$100,000.....	29.5	24.4	25.1	5.5	9.3	10.4	4.1	8.2	9.2	4.9	9.9	11.1
\$100,000 to \$500,000.....	13.0	13.3	16.0	14.3	37.8	38.1	12.4	21.6	39.3	13.8	38.2	39.6
\$500,000 to \$1,000,000.....	4.8	3.0	.....	10.4	.....	.....	10.2	15.9	.....	10.4	.....	.....
\$1,000,000 and over.....	6.8	2.8	2.5	68.4	49.4	47.4	72.2	51.3	48.3	69.6	47.9	44.9



## MANUFACTURES—MASSACHUSETTS.

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

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.				
	1919	1914	Per cent distribution.	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		
																1919
BOOT AND SHOE CUT STOCK.....	182	180	100.0	100.0	4,631	3,781	100.0	100.0	\$80,214,106	\$35,636,846	100.0	100.0	\$16,732,140	\$5,224,241	100.0	100.0
Less than \$5,000.....	7	25	3.8	13.9	10	33	0.2	0.9	24,172	68,177	(1)	0.2	15,431	33,214	0.1	0.6
\$5,000 to \$20,000.....	25	34	13.7	18.9	71	236	1.5	6.2	293,564	381,301	0.3	1.1	137,250	161,687	0.8	3.1
\$20,000 to \$100,000.....	62	59	34.1	32.8	584	865	12.6	22.9	3,245,463	2,907,542	3.8	8.2	1,244,027	876,703	7.4	16.8
\$100,000 to \$500,000.....	46	38	25.3	21.1	1,461	2,194	31.5	51.5	11,014,026	8,994,073	12.8	25.2	3,811,770	2,918,329	19.8	55.9
\$500,000 to \$1,000,000.....	18	17	9.9	9.4	695	.....	15.0	.....	13,401,565	11,282,070	15.5	31.7	2,361,781	.....	14.1	.....
\$1,000,000 and over.....	24	7	13.2	3.9	1,810	699	39.1	18.5	58,235,316	12,003,683	67.5	33.7	9,661,881	1,234,308	57.7	28.6
BOOT AND SHOE FINDINGS.....	254	240	100.0	100.0	5,896	4,389	100.0	100.0	44,357,147	19,021,309	100.0	100.0	15,970,929	5,517,758	100.0	100.0
Less than \$5,000.....	19	38	7.5	15.8	10	62	0.2	1.4	51,600	104,253	0.1	0.6	33,135	64,273	0.2	1.2
\$5,000 to \$20,000.....	42	71	16.5	29.6	147	383	2.5	8.7	445,766	775,639	1.0	4.1	250,475	352,824	1.6	6.4
\$20,000 to \$100,000.....	96	81	37.8	33.8	1,186	1,294	20.1	29.5	5,074,818	3,978,565	11.4	20.9	2,215,499	988,142	13.9	17.9
\$100,000 to \$500,000.....	81	47	31.9	19.6	2,899	2,153	49.2	49.2	19,275,928	10,127,774	43.5	53.2	7,009,863	3,565,545	43.9	44.0
\$500,000 to \$1,000,000.....	10	.....	3.9	.....	520	.....	8.8	.....	6,726,204	.....	15.2	.....	2,116,947	.....	18.2	.....
\$1,000,000 and over.....	6	3	2.4	1.2	1,134	492	19.2	11.2	12,782,831	4,035,078	28.8	21.2	4,846,520	546,974	27.2	9.9
BOOTS AND SHOES, NOT INCLUDING RUBBER BOOTS AND SHOES.....	493	464	100.0	100.0	80,166	76,944	100.0	100.0	442,466,236	200,529,358	100.0	100.0	173,115,841	80,204,178	100.0	100.0
Less than \$5,000.....	9	41	1.8	8.8	18	100	(1)	0.1	24,907	107,989	(1)	0.1	16,611	78,547	(1)	0.1
\$5,000 to \$20,000.....	50	67	10.1	14.4	216	465	0.3	0.6	540,075	689,635	0.1	0.3	331,725	419,109	0.2	0.5
\$20,000 to \$100,000.....	81	97	16.4	20.9	1,440	2,588	1.8	3.4	4,380,642	4,974,267	1.0	2.5	2,808,754	2,894,916	1.3	3.0
\$100,000 to \$500,000.....	149	137	30.2	29.5	8,740	30,500	10.9	39.8	39,604,025	34,282,689	9.0	17.1	16,857,843	31,383,466	9.7	39.1
\$500,000 to \$1,000,000.....	73	62	14.8	13.4	9,517	.....	11.9	.....	52,390,673	45,895,472	11.8	22.9	22,108,940	.....	12.8	.....
\$1,000,000 and over.....	131	60	26.6	12.9	60,235	43,201	75.1	56.1	345,525,314	114,569,806	78.1	57.1	131,601,468	45,928,140	76.0	57.3
BOXES, PAPER AND OTHER, NOT ELSEWHERE SPECIFIED.....	102	97	100.0	100.0	4,711	4,244	100.0	100.0	15,666,081	7,084,975	100.0	100.0	8,202,591	3,413,102	100.0	100.0
Less than \$5,000.....	14	5	13.7	5.2	122	16	.....	0.4	14,772	.....	0.2	.....	10,447	.....	.....	0.3
\$5,000 to \$20,000.....	45	23	13.7	23.7	1,122	284	2.6	6.7	184,362	296,943	1.2	4.2	113,805	179,519	1.4	5.3
\$20,000 to \$100,000.....	39	40	38.2	20.6	2,028	1,621	22.2	38.2	2,454,587	2,339,454	15.9	33.0	1,404,442	1,220,631	17.1	35.8
\$100,000 to \$500,000.....	4	.....	3.0	.....	614	.....	13.0	.....	6,399,360	4,433,806	53.6	62.6	4,630,186	2,002,505	56.4	58.7
\$500,000 and over.....	.....	.....	.....	.....	.....	.....	.....	.....	4,697,772	.....	29.3	.....	2,054,158	.....	25.0	.....
BOXES, WOODEN PACKING, EXCEPT CIGAR BOXES.....	75	91	100.0	100.0	3,232	2,995	100.0	100.0	15,050,531	7,710,614	100.0	100.0	6,678,699	2,934,345	100.0	100.0
Less than \$5,000.....	7	11	9.3	12.1	3	13	0.1	0.4	18,071	23,351	0.1	0.3	11,766	12,279	0.2	0.4
\$5,000 to \$20,000.....	6	17	8.0	18.7	16	78	0.5	2.5	70,167	170,283	0.5	2.2	24,048	60,370	0.4	2.1
\$20,000 to \$100,000.....	20	38	26.7	41.8	262	806	8.1	26.9	1,107,541	2,071,992	7.4	26.9	460,871	779,835	6.9	26.6
\$100,000 to \$500,000.....	35	25	46.7	27.5	1,739	2,100	53.8	70.1	7,827,351	5,445,068	52.0	70.6	3,126,709	2,081,861	46.8	70.9
\$500,000 and over.....	7	.....	9.3	.....	1,212	.....	37.5	.....	6,027,401	.....	40.0	.....	3,052,958	.....	45.7	.....
BRASS, BRONZE, AND COPPER PRODUCTS.....	72	73	100.0	100.0	2,832	1,620	100.0	100.0	16,943,199	5,958,863	100.0	100.0	7,576,434	2,244,067	100.0	100.0
Less than \$5,000.....	22	13	30.6	17.8	44	15	.....	0.9	37,484	.....	0.6	.....	24,357	.....	.....	1.1
\$5,000 to \$20,000.....	30	20	41.7	27.4	201	280	10.3	17.3	248,226	400,940	1.5	6.7	132,804	205,109	1.8	9.1
\$20,000 to \$100,000.....	15	4	20.8	5.5	603	1,171	21.3	72.3	1,359,422	828,428	8.0	13.9	670,066	374,902	8.9	16.7
\$100,000 to \$500,000.....	5	3	6.9	4.1	1,894	.....	66.9	.....	3,486,245	1,030,621	20.3	17.4	1,490,198	1,639,699	19.7	73.1
\$500,000 and over.....	.....	.....	.....	.....	.....	.....	.....	.....	11,999,269	3,622,390	70.2	61.3	5,282,766	.....	69.7	.....
BREAD AND OTHER BAKERY PRODUCTS.....	1,309	1,419	100.0	100.0	8,583	8,083	100.0	100.0	66,017,267	33,309,051	100.0	100.0	25,430,484	15,037,903	100.0	100.0
Less than \$5,000.....	90	328	6.9	23.1	39	202	0.5	2.5	283,584	1,086,868	0.4	3.1	112,753	466,768	0.4	3.1
\$5,000 to \$20,000.....	647	868	49.4	61.2	1,117	2,173	13.0	26.9	7,806,096	8,710,072	11.8	26.1	3,027,465	3,698,622	11.9	24.6
\$20,000 to \$100,000.....	495	189	37.8	13.3	2,464	1,887	28.7	23.3	18,135,828	7,242,027	27.5	21.7	6,411,768	2,894,331	25.2	19.3
\$100,000 to \$500,000.....	58	27	4.4	1.9	1,389	3,821	16.2	47.3	11,944,423	6,186,724	18.1	18.6	4,500,685	7,977,482	17.7	53.0
\$500,000 to \$1,000,000.....	11	7	0.8	0.5	1,070	.....	12.5	.....	7,726,155	10,133,360	11.7	30.5	2,876,932	.....	11.3	.....
\$1,000,000 and over.....	8	.....	0.6	.....	2,504	.....	20.2	.....	20,118,181	.....	30.4	.....	8,500,881	.....	33.4	.....
CHEMICALS.....	27	24	100.0	100.0	2,483	1,395	100.0	100.0	17,305,166	6,684,918	100.0	100.0	9,203,749	3,330,297	100.0	100.0
Less than \$5,000.....	4	4	16.7	.....	5	20	0.2	1.4	10,027	.....	0.1	.....	8,595	.....	.....	0.2
\$5,000 to \$20,000.....	8	6	29.6	25.0	31	47	1.2	3.4	33,083	107,066	0.2	1.6	9,784	31,382	0.1	0.9
\$20,000 to \$100,000.....	11	3	40.7	12.5	395	179	15.9	12.8	442,996	395,347	2.6	5.9	181,077	235,406	2.0	7.1
\$100,000 to \$500,000.....	4	4	14.8	18.7	2,052	1,144	82.6	82.0	2,803,432	2,948,683	16.2	14.2	2,655,971	2,864,077	18.0	10.9
\$500,000 and over.....	.....	.....	.....	.....	.....	.....	.....	.....	14,025,665	5,223,855	81.0	78.1	7,356,917	2,690,837	79.9	80.8
CLOTHING, MEN'S.....	207	213	100.0	100.0	6,856	5,760	100.0	100.0	41,475,028	16,217,687	100.0	100.0	17,874,966	7,184,530	100.0	100.0
Less than \$5,000.....	13	37	6.3	17.4	14	138	0.2	2.4	39,625	109,773	0.1	0.7	25,362	96,839	0.1	1.3
\$5,000 to \$20,000.....	51	81	24.6	38.0	238	983	4.3	17.1	598,827	938,647	1.4	5.8	515,044	735,849	2.9	10.2
\$20,000 to \$100,000.....	76	57	33.7	26.8	1,226	1,117	17.9	19.4	3,820,447	2,605,165	9.2	16.1	2,295,181	1,800,014	12.8	18.1
\$100,000 to \$500,000.....	40	31	22.2	14.6	1,389	3,522	20.3	61.1	10,187,513	6,436,174	24.6	39.7	3,891,454	5,052,328	21.8	70.3
\$500,000 to \$1,000,000.....	10	7	4.8	3.3	755	.....	11.0	.....	6,816,509	6,127,928	15.2	27.8	2,797,433	.....	15.6	.....
\$1,000,000 and over.....	11	.....	5.3	.....	3,174	.....	46.3	.....	20,5							



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

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.	
			1919	1914			1919	1914			1919	1914			1919	1914
CONFECTIONERY AND ICECREAM.	278	273	100.0	100.0	11,585	7,250	100.0	100.0	\$68,896,885	\$22,901,916	100.0	100.0	\$28,542,876	\$9,061,208	100.0	100.0
Less than \$5,000.....	24	70	8.6	25.6	13	54	0.1	0.7	70,433	178,267	0.1	0.8	31,039	91,580	0.1	1.0
\$5,000 to \$20,000.....	80	103	28.8	37.7	143	312	1.2	4.3	937,685	1,045,712	1.4	4.6	407,672	482,664	1.4	5.3
\$20,000 to \$100,000.....	102	61	36.7	22.3	654	667	5.6	9.2	4,668,899	2,442,328	6.8	10.7	1,779,871	1,060,441	6.2	11.7
\$100,000 to \$500,000.....	47	31	16.9	11.4	1,660	3,289	14.3	45.4	10,888,687	6,919,993	15.8	30.2	3,903,545	3,573,888	13.7	39.4
\$500,000 to \$1,000,000.....	6	3	2.2	1.1	758	2	6.6		4,429,122	2,479,424	6.4	10.8	1,613,015		5.7	
\$1,000,000 and over.....	19	5	6.8	1.8	8,357	2,928	72.1	40.4	47,902,059	9,836,192	69.5	42.9	20,807,734	3,852,635	72.9	42.5
COTTON GOODS.	191	165	100.0	100.0	122,499	112,609	100.0	100.0	596,687,441	195,481,626	100.0	100.0	237,012,202	76,754,374	100.0	100.0
Less than \$100,000.....	11	14	5.8	8.5	119	731	0.1	0.6	603,919	1,243,516	0.1	0.6	252,710	408,015	0.1	0.6
\$100,000 to \$500,000.....	25	41	13.1	24.8	1,243	24,445	1.0	21.4	7,226,475	11,342,770	1.2	5.8	2,393,553	14,745,407	1.0	19.2
\$500,000 to \$1,000,000.....	25	37	13.1	22.4	3,570		2.9		18,398,048	28,172,754	3.1	14.4	5,938,009		2.5	
\$1,000,000 and over.....	130	73	68.1	44.2	117,562	87,838	96.0	78.0	570,458,999	154,722,586	95.6	79.1	228,427,930	61,510,952	96.4	80.1
CUTLERY AND EDGE TOOLS.	51	37	100.0	100.0	3,988	1,947	100.0	100.0	19,672,750	4,354,119	100.0	100.0	14,261,413	3,520,968	100.0	100.0
Less than \$5,000.....	3	9	5.9	24.3	3	16	0.1	0.8	8,033	32,211	(2)	0.7	6,015	23,489	(2)	0.7
\$5,000 to \$20,000.....	14	11	27.5	29.7	56	92	1.4	4.7	138,314	147,222	0.7	3.4	85,691	106,557	0.6	3.0
\$20,000 to \$100,000.....	17	9	33.3	24.3	204	355	5.1	18.2	670,910	570,152	3.4	13.1	479,353	422,211	3.4	12.0
\$100,000 and over.....	17	8	33.3	21.6	3,725	1,484	93.4	76.2	18,855,493	3,604,534	95.8	82.8	13,690,364	2,968,711	96.0	84.3
DYEING AND FINISHING TEXTILES, EXCLUSIVE OF THAT DONE IN TEXTILE MILLS.	62	57	100.0	100.0	12,321	11,437	100.0	100.0	75,261,815	22,455,086	100.0	100.0	81,052,277	11,460,083	100.0	100.0
Less than \$5,000.....	4	3	6.5	5.3	7	9	0.1		11,817	24,992	(2)		8,028		(2)	
\$5,000 to \$20,000.....	3	5	4.8	8.8	9	26	0.1	0.2	24,992	33,380	(2)	0.1	13,038	21,480	(2)	0.2
\$20,000 to \$100,000.....	11	20	17.7	35.1	251	505	2.0	4.4	666,706	924,240	0.9	4.1	331,570	449,817	1.1	3.9
\$100,000 to \$500,000.....	16	21	25.8	36.8	1,168	4,978	9.5	43.5	4,333,765	5,506,201	5.8	24.5	2,424,729	4,741,245	7.8	41.3
\$500,000 to \$1,000,000.....	15	5	24.2	8.8	2,417		19.6		10,665,853	3,290,653	14.2	14.7	5,152,599		16.6	
\$1,000,000 and over.....	13	6	21.0	10.5	8,469	5,980	68.7	51.8	59,558,682	12,700,612	79.1	56.6	23,121,734	6,253,541	74.5	54.5
ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES.	110	91	100.0	100.0	23,889	17,125	100.0	100.0	91,938,738	43,869,294	100.0	100.0	60,101,662	26,172,387	100.0	100.0
Less than \$5,000.....	7	9	6.4	9.9	13	9	0.1	0.1	23,788	25,799	(2)	0.1	13,985	15,179	(2)	0.1
\$5,000 to \$20,000.....	14	20	12.7	22.0	73	102	0.3	0.6	198,054	211,311	0.2	0.5	112,741	115,840	0.2	0.4
\$20,000 to \$100,000.....	37	30	33.6	33.0	491	696	2.1	4.1	1,656,346	1,504,018	1.8	3.6	1,013,713	928,058	1.7	3.6
\$100,000 to \$500,000.....	30	23	27.3	25.3	1,712	3,393	7.2	19.8	6,905,059	5,325,128	7.5	12.1	3,821,343	4,946,413	6.4	13.9
\$500,000 to \$1,000,000.....	11	4	10.0	4.4	1,820		7.6		7,586,377	2,548,068	8.3	5.8	4,193,053		7.0	
\$1,000,000 and over.....	11	5	10.0	5.5	19,780	12,925	82.8	75.5	75,569,114	34,194,980	82.2	77.9	50,946,377	20,167,897	84.8	77.0
FOUNDRY AND MACHINE-SHOP PRODUCTS.	765	705	100.0	100.0	51,680	32,687	100.0	100.0	201,538,303	65,605,499	100.0	100.0	131,842,033	42,310,005	100.0	100.0
Less than \$5,000.....	72	120	9.4	17.0	61	161	0.1	0.5	205,375	324,754	0.1	0.6	151,115	240,635	0.1	0.6
\$5,000 to \$20,000.....	157	232	20.5	32.9	528	1,306	1.0	4.0	1,848,720	2,486,000	0.9	3.8	1,249,845	1,732,390	0.9	4.1
\$20,000 to \$100,000.....	265	220	34.6	31.2	3,833	5,320	7.4	16.3	13,041,565	10,299,385	6.5	15.7	8,209,172	6,410,648	6.3	15.2
\$100,000 to \$500,000.....	187	103	24.4	15.3	10,827	15,970	21.0	48.9	41,982,430	21,561,669	20.8	32.9	26,195,614	12,077,355	19.9	48.9
\$500,000 to \$1,000,000.....	44	19	5.8	2.7	6,743		13.0		30,363,084	12,963,006	15.1	19.8	18,881,983		14.3	
\$1,000,000 and over.....	40	6	5.2	0.9	29,688	9,930	57.4	30.4	114,097,120	17,970,688	56.6	27.4	77,064,354	13,248,977	58.5	31.3
FURNITURE.	161	134	100.0	100.0	6,342	6,813	100.0	100.0	23,688,023	13,826,765	100.0	100.0	13,030,675	8,178,813	100.0	100.0
Less than \$5,000.....	11	15	6.8	11.2	8	27	0.1	0.4	26,004	42,766	0.1	0.3	16,006	29,334	0.1	0.4
\$5,000 to \$20,000.....	35	34	21.7	25.4	116	172	1.8	2.5	376,947	350,872	1.6	2.5	222,175	222,329	1.7	2.7
\$20,000 to \$100,000.....	60	55	37.3	41.0	892	1,295	14.1	19.0	3,162,959	2,714,001	13.4	18.6	1,704,309	1,608,475	13.1	19.7
\$100,000 to \$500,000.....	49	30	29.8	22.4	2,447	5,319	38.6	78.1	9,970,772	10,719,126	42.1	77.5	5,771,532	6,318,675	44.3	77.3
\$500,000 and over.....	7		4.3		2,879		45.4		10,146,241		42.8		5,316,053		40.8	
GAS, ILLUMINATING AND HEATING.	51	61	100.0	100.0	2,654	3,182	100.0	100.0	24,231,095	15,751,637	100.0	100.0	13,457,531	9,800,244	100.0	100.0
Less than \$5,000.....	3	5	5.9	8.2	2	7	0.1	0.2	10,135	11,969	(2)	0.1	4,300	6,594	(2)	0.1
\$5,000 to \$20,000.....	21	28	41.2	45.9	200	398	7.5	12.5	67,410	67,410	0.4		42,354		0.4	
\$20,000 to \$100,000.....	15	12	29.4	19.7	548	2,760	20.6	86.7	1,182,461	1,568,691	4.9	10.0	626,101	923,050	4.7	9.4
\$100,000 to \$500,000.....	5	9	9.8	14.8	450		17.0		3,618,046	3,260,143	14.9	20.6	1,905,856	8,828,240	14.2	90.1
\$500,000 to \$1,000,000.....	7		13.7		1,484		54.8		4,124,295	7,104,434	17.0	68.9	2,342,103		17.4	
\$1,000,000 and over.....	105	202	100.0	100.0	6,786	6,505	100.0	100.0	15,296,158	63,1	63.1		8,579,111	63.7		
JEWELRY.	9	32	6.5	15.8	9	36	0.1	0.6	34,816,822	14,175,857	100.0	100.0	16,452,320	7,465,725	100.0	100.0
Less than \$5,000.....	30	46	15.2	22.8	9	27	0.1	0.7	27,817	92,713	0.1	0.7	21,732	67,386	0.1	0.9
\$5,000 to \$20,000.....	45	31	27.3	40.1	752	2,201	11.1	33.8	364,560	504,824	1.0	3.6	247,703	354,001	1.5	4.7
\$20,000 to \$100,000.....	68	43	41.2	21.3	4,039	8,990	59.5	61.3	2,516,791	4,098,979	7.2	28.9	1,556,232	2,562,721	9.5	34.3
\$100,000 to \$500,000.....	8		4.8		991		14.6		15,408,283	9,479,641	44.3	66.9	8,705,500	4,481,617	52.9	60.0
\$500,000 to \$1,000,000.....	5		3.0		893		13.2		5,495,121		15.8		2,946,358		17.9	
\$1,000,000 and over.....	77	77	100.0	100.0	12,751	10,635	100.0	100.0	11,004,250		31.6		2,974,639		18.1	
KNIT GOODS.	6	14	7.8	18.2	2	7	(2)	0.1	16,887	21,691	(2)	0.1	10,491	13,178		



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

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.				
	1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		
			1919	1914			1919	1914			1919	1914			1919	1914	
PRINTING AND PUBLISHING, BOOK AND JOB.....	768	741	100.0	100.0	7,634	7,062	100.0	100.0	\$41,626,859	\$20,245,246	100.0	100.0	\$28,601,774	\$14,731,508	100.0	100.0	
Less than \$5,000.....	227	335	29.6	45.2	102	325	1.3	4.6	557,654	794,148	1.3	3.9	387,459	584,232	1.3	4.0	
\$5,000 to \$20,000.....	289	256	38.9	34.5	839	1,181	11.0	16.8	3,034,221	2,481,212	7.3	12.3	2,011,580	1,815,757	7.0	12.3	
\$20,000 to \$100,000.....	181	116	23.6	15.7	2,030	2,022	26.6	28.6	7,760,693	4,856,948	18.6	24.0	5,256,724	3,329,499	18.3	22.6	
\$100,000 to \$500,000.....	48	29	6.2	3.9	2,143	3,530	28.1	50.0	10,123,483	5,914,975	24.3	29.2	7,024,633	1,902,020	24.5	61.1	
\$500,000 to \$1,000,000.....	6	5	0.8	0.7	644	.....	8.4	.....	4,050,495	2,197,963	9.7	30.6	3,064,630	.....	10.7	.....	
\$1,000,000 and over.....	7	.....	0.9	.....	1,876	.....	24.6	.....	16,100,313	.....	38.7	.....	10,946,448	.....	38.2	.....	
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	412	456	100.0	100.0	5,885	6,032	100.0	100.0	46,801,145	26,719,398	100.0	100.0	30,327,900	18,270,255	100.0	100.0	
Less than \$5,000.....	111	127	26.9	27.9	46	88	0.8	1.5	271,024	311,384	0.6	1.2	232,650	277,893	0.8	1.5	
\$5,000 to \$20,000.....	141	187	34.2	41.0	384	708	6.5	11.7	1,576,600	1,913,208	3.4	7.2	1,290,530	1,614,075	4.3	8.8	
\$20,000 to \$100,000.....	105	106	25.5	23.2	802	1,303	14.6	21.6	4,429,413	4,381,486	9.4	16.4	3,371,457	3,497,129	11.1	19.1	
\$100,000 to \$500,000.....	41	26	10.0	5.7	1,656	2,018	28.1	33.5	6,525,956	5,264,083	20.4	19.7	7,203,828	6,017,985	23.8	32.9	
\$500,000 to \$1,000,000.....	7	4	1.7	0.9	615	.....	10.5	.....	5,184,382	2,771,884	11.1	10.4	3,734,272	.....	12.3	.....	
\$1,000,000 and over.....	7	6	1.7	1.3	2,322	1,915	39.5	31.7	25,813,810	12,076,453	55.2	45.2	14,490,253	6,863,173	47.8	37.6	
RUBBER TIRES, TUBES, AND RUBBER GOODS, NOT ELSEWHERE SPECIFIED.....	47	42	100.0	100.0	9,406	4,743	100.0	100.0	93,376,505	23,011,349	100.0	100.0	46,300,522	8,809,611	100.0	100.0	
Less than \$5,000.....	.....	5	.....	11.9	.....	6	.....	0.1	.....	13,005	.....	0.1	.....	7,493	.....	0.1	.....
\$5,000 to \$20,000.....	4	8	10.6	19.0	410	43	0.1	0.9	37,209	90,087	0.4	0.4	13,409	50,333	0.5	0.6	
\$20,000 to \$100,000.....	8	11	17.0	26.2	127	187	1.4	3.9	515,615	648,481	0.6	2.8	231,612	252,178	0.5	2.8	
\$100,000 to \$500,000.....	17	8	36.2	19.0	904	1,725	10.6	36.4	4,394,900	1,585,974	4.7	6.9	2,115,821	2,299,937	4.6	25.9	
\$500,000 to \$1,000,000.....	8	6	17.0	14.3	751	.....	8.0	.....	6,337,551	4,077,724	6.8	17.7	2,425,621	.....	5.2	.....	
\$1,000,000 and over.....	9	4	19.1	9.5	7,524	2,782	80.0	58.7	82,091,230	16,596,078	87.9	72.1	41,509,159	6,259,670	89.7	70.6	
SILK GOODS, INCLUDING THROWSTERS.....	21	19	100.0	100.0	5,097	4,495	100.0	100.0	34,193,951	10,676,681	100.0	100.0	14,050,468	4,715,544	100.0	100.0	
\$20,000 to \$100,000.....	5	8	23.8	42.1	80	142	1.4	3.2	817,775	2,779,407	0.9	2.6	185,319	113,517	1.1	2.4	
\$100,000 to \$500,000.....	4	8	19.0	42.1	213	1,021	3.7	22.7	1,235,900	2,779,905	3.6	26.0	401,654	1,243,065	2.7	26.4	
\$500,000 to \$1,000,000.....	5	.....	23.8	.....	555	.....	9.7	.....	3,840,793	.....	11.2	.....	1,308,320	.....	8.7	.....	
\$1,000,000 and over.....	7	3	33.3	15.8	4,849	3,332	85.1	74.1	28,706,423	7,620,369	84.2	71.4	13,079,975	3,358,902	87.5	71.2	
SLAUGHTERING AND MEAT PACKING.....	40	46	100.0	100.0	4,307	3,233	100.0	100.0	110,238,038	51,724,520	100.0	100.0	9,002,698	6,206,181	100.0	100.0	
Less than \$5,000.....	.....	4	.....	8.7	.....	2	.....	0.1	.....	14,033	.....	0.1	.....	4,711	.....	0.1	.....
\$5,000 to \$20,000.....	18	7	20.0	15.2	45	8	0.1	0.2	90,225	111,636	0.1	0.2	28,386	32,070	0.3	0.5	
\$20,000 to \$100,000.....	12	12	30.0	26.1	37	55	0.9	1.7	594,052	472,417	0.5	0.9	143,073	120,568	1.7	1.9	
\$100,000 to \$500,000.....	8	11	20.0	23.9	50	171	1.3	5.3	1,743,174	2,460,227	1.6	4.8	247,530	435,378	2.7	6.9	
\$500,000 to \$1,000,000.....	3	3	7.5	0.5	09	.....	1.6	.....	2,308,013	1,824,648	2.1	3.5	260,334	.....	2.9	.....	
\$1,000,000 and over.....	9	9	22.5	19.6	4,140	2,907	96.1	92.7	105,501,674	46,841,559	95.7	90.6	8,317,775	5,703,454	92.4	90.0	
SOAP.....	27	32	100.0	100.0	1,008	460	100.0	100.0	18,729,572	4,671,310	100.0	100.0	7,556,340	2,195,290	100.0	100.0	
Less than \$5,000.....	3	9	11.1	28.1	1	6	0.1	1.3	6,291	13,695	0.1	0.4	2,961	8,875	0.4	0.4	
\$5,000 to \$20,000.....	9	7	33.3	21.9	14	17	1.4	3.7	100,594	76,755	0.5	1.6	38,979	30,359	0.5	1.4	
\$20,000 to \$100,000.....	4	6	14.8	18.3	24	49	2.4	10.7	231,825	337,066	1.2	7.2	73,825	84,515	1.0	3.5	
\$100,000 to \$500,000.....	8	10	29.6	31.2	101	1,388	10.0	84.3	2,853,376	1,238,794	15.2	90.7	886,017	1,071,541	11.5	94.4	
\$1,000,000 and over.....	3	.....	11.1	.....	803	.....	80.2	.....	15,537,186	.....	83.0	.....	6,574,558	.....	87.0	.....	
STATIONERY GOODS, NOT ELSEWHERE SPECIFIED.....	30	27	100.0	100.0	3,305	2,467	100.0	100.0	15,161,819	6,511,512	100.0	100.0	7,896,802	2,959,442	100.0	100.0	
Less than \$5,000.....	.....	5	.....	18.5	.....	12	.....	0.5	.....	11,688	.....	0.2	.....	8,390	.....	0.3	.....
\$5,000 to \$20,000.....	17	5	23.3	18.5	410	22	0.3	0.9	447,625	52,917	0.3	0.8	122,113	20,993	0.3	0.9	
\$20,000 to \$100,000.....	5	6	16.7	18.5	67	128	2.0	5.2	249,743	341,389	1.6	5.2	142,682	146,131	1.8	4.9	
\$100,000 to \$500,000.....	11	8	36.7	29.0	861	2,305	26.1	93.4	3,402,315	1,597,682	22.4	24.5	1,710,361	1,777,958	21.7	93.0	
\$500,000 to \$1,000,000.....	3	2	10.0	14.8	281	.....	8.5	.....	2,048,984	4,607,836	13.5	69.2	1,111,827	.....	14.1	.....	
\$1,000,000 and over.....	4	.....	13.3	.....	2,086	.....	63.1	.....	9,413,152	.....	62.1	.....	4,910,419	.....	62.2	.....	
TOOLS, NOT ELSEWHERE SPECIFIED.....	117	100	100.0	100.0	7,226	4,538	100.0	100.0	29,158,834	8,619,903	100.0	100.0	21,171,417	6,059,532	100.0	100.0	
Less than \$5,000.....	22	36	18.8	36.0	23	53	0.3	1.2	67,434	92,848	0.2	1.1	54,694	70,451	0.3	1.2	
\$5,000 to \$20,000.....	39	27	33.3	27.0	103	171	2.3	3.8	435,981	296,414	1.5	3.4	305,061	210,163	1.4	3.5	
\$20,000 to \$100,000.....	27	22	23.1	22.0	459	635	6.4	11.8	1,336,764	829,491	4.6	9.6	930,838	546,934	4.4	9.0	
\$100,000 to \$500,000.....	15	10	12.8	10.0	678	1,779	9.4	33.3	2,812,393	2,557,641	9.6	29.7	1,829,097	1,521,981	8.6	30.3	
\$500,000 to \$1,000,000.....	5	5	4.3	5.0	900	.....	13.3	.....	3,721,882	4,843,509	12.8	56.2	2,461,564	.....	11.6	.....	
\$1,000,000 and over.....	9	.....	7.7	.....	4,943	.....	68.4	.....	20,784,880	.....	71.3	.....	15,683,733	.....	73.6	.....	
WOOLEN GOODS.....	111	86	100.0	100.0	17,568	13,844	100.0	100.0	105,183,068	28,391,184	100.0	100.0	43,089,560	11,691,966	100.0	100.0	
\$5,000 to \$20,000.....	5	13	4.5	3.5	28	425	0.2	0.2	54,515	21,191	0.1	0.1	46,036	9,886	0.1	0.1	
\$20,000 to \$100,000.....	5	13	4.5	15.1	64	870	0.4	4.1	231,037	900,148	0.2	3.2	152,560	347,294	0.4	3.0	
\$100,000 to \$500,000.....	33	59	29.7	68.6	2,299	10,296	13.1	74.4	9,898,253	15,193,894	9.4	53.5	4,358,279	8,394,866	10.1	71.8	
\$500,000 to \$1,000,000.....	29	8	26.1	9.3	3,615	.....	20.6	.....	20,986,540	5,473,180	20.0	19.3	8,463,682	.....	19.6	.....	
\$1,000,000 and over.....	39	3	35.1	3.5	11,592	2,953	65.8	21.3	74,012,723	6,802,771	70.4	24.0	30,068,693	2,939,920	69.8	25.1	
WORSTED GOODS.....	71	70	100.0	100.0	36,296	39,533	100.0	100.0	237,443,077	98,980,250	100.0	100.0	86,826,534	34,506,575	100.0	100.0	
\$5,000 to \$20,000.....	.....	3	.....	4.3	.....	36	.....	0.1	.....								

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

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

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

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

5 Less than one-tenth of 1 per cent.

6 Includes the group "\$5,000 to \$20,00



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

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
ADAMS.....	32	3,974	100.0	\$15,076,858	100.0	\$6,937,344	100.0	CLINTON.....	33	4,155	100.0	\$15,179,819	100.0	\$6,909,775	100.0
Less than \$5,000.....	8	2	0.1	18,565	0.1	8,939	0.1	Less than \$5,000.....	3	—	—	3,825	(*)	2,655	(*)
\$5,000 to \$20,000.....	8	34	0.9	88,510	0.6	43,700	0.6	\$5,000 to \$20,000.....	16	40	1.0	192,333	1.3	105,450	1.5
\$20,000 to \$100,000.....	7	42	1.0	260,735	1.7	101,703	1.5	\$20,000 to \$100,000.....	6	85	2.0	291,708	1.9	187,195	2.3
\$100,000 to \$500,000.....	6	639	16.1	3,494,894	23.2	1,374,057	19.8	\$100,000 to \$500,000.....	4	227	5.5	1,584,728	10.4	483,502	7.0
\$1,000,000 and over.....	3	3,257	82.0	11,214,154	74.4	5,408,945	78.0	\$1,000,000 and over.....	4	3,803	91.5	13,107,225	86.3	6,160,973	89.2
AMESBURY.....	44	3,173	100.0	16,309,509	100.0	6,892,541	100.0	DANVERS.....	25	1,474	100.0	11,541,839	100.0	3,874,052	100.0
Less than \$5,000.....	6	4	0.1	19,707	0.1	11,904	0.2	Less than \$5,000.....	10	37	2.5	105,732	0.9	59,363	1.5
\$5,000 to \$20,000.....	9	29	0.9	117,893	0.7	59,946	0.9	\$5,000 to \$20,000.....	7	69	4.7	259,388	2.2	108,630	2.8
\$20,000 to \$100,000.....	11	158	5.0	584,401	3.6	217,712	3.2	\$20,000 to \$100,000.....	5	707	48.0	2,293,438	19.6	1,142,720	29.5
\$100,000 to \$500,000.....	11	610	19.2	4,681,882	28.7	1,453,063	21.1	\$100,000 to \$500,000.....	3	661	44.8	8,910,281	77.2	2,563,339	66.2
\$500,000 and over.....	7	2,372	74.8	10,965,626	66.9	5,149,916	74.7	\$1,000,000 and over.....	—	—	—	—	—	—	—
ARLINGTON.....	27	228	100.0	1,006,207	100.0	583,587	100.0	DEDHAM.....	20	463	100.0	1,737,073	100.0	923,905	100.0
Less than \$5,000.....	4	2	0.9	9,884	1.0	5,936	1.0	Less than \$5,000.....	4	5	1.1	15,549	0.9	10,758	1.2
\$5,000 to \$20,000.....	11	38	16.7	136,750	13.6	66,767	11.4	\$5,000 to \$20,000.....	9	27	5.8	97,162	5.6	63,181	7.4
\$20,000 and over.....	12	188	82.5	859,573	85.4	510,884	87.5	\$20,000 to \$100,000.....	4	24	5.2	108,116	9.7	63,452	6.9
ATTLEBORO.....	144	6,763	100.0	34,471,577	100.0	15,901,897	100.0	\$100,000 and over.....	3	407	87.9	1,456,846	83.8	781,514	84.6
Less than \$5,000.....	19	14	0.2	56,083	0.2	44,282	0.3	EASTHAMPTON.....	28	4,142	100.0	37,942,121	100.0	10,898,213	100.0
\$5,000 to \$20,000.....	36	135	2.0	424,058	1.2	306,847	1.9	Less than \$5,000.....	8	5	0.1	15,469	(*)	10,864	0.1
\$20,000 to \$100,000.....	29	380	5.6	1,402,636	4.1	780,610	4.9	\$5,000 to \$20,000.....	7	29	0.7	108,549	0.3	50,478	0.5
\$100,000 to \$500,000.....	47	3,219	47.6	17,219,766	50.0	7,664,733	48.2	\$20,000 to \$100,000.....	5	36	0.9	210,467	0.6	85,247	0.8
\$500,000 and over.....	13	3,015	44.6	15,369,034	44.6	7,099,475	44.6	\$100,000 to \$500,000.....	4	240	5.8	1,923,718	5.1	932,359	8.6
BELMONT.....	6	93	100.0	374,586	100.0	166,388	100.0	\$1,000,000 and over.....	4	3,832	92.5	35,088,918	94.1	9,819,235	90.1
BEVERLY.....	70	6,495	100.0	21,829,684	100.0	13,091,296	100.0	EVERETT.....	104	4,523	100.0	35,775,728	100.0	16,710,647	100.0
Less than \$5,000.....	10	11	0.2	30,151	0.1	20,589	0.2	Less than \$5,000.....	7	6	0.1	21,191	0.1	13,699	0.1
\$5,000 to \$20,000.....	21	63	1.0	215,696	1.0	115,907	0.9	\$5,000 to \$20,000.....	20	61	1.3	247,905	0.7	149,267	0.9
\$20,000 to \$100,000.....	21	232	3.6	943,210	4.3	464,357	3.5	\$20,000 to \$100,000.....	35	397	8.8	1,774,654	5.0	858,721	5.1
\$100,000 to \$500,000.....	12	560	8.6	2,464,238	11.3	1,045,881	8.0	\$100,000 to \$500,000.....	27	856	21.1	5,400,497	15.1	2,370,922	14.2
\$500,000 and over.....	3	567	8.3	2,557,455	11.7	1,017,331	7.8	\$500,000 to \$1,000,000.....	6	727	16.1	4,414,726	12.3	1,780,022	10.4
\$1,000,000 and over.....	3	5,092	78.4	15,619,034	71.5	10,427,231	79.7	\$1,000,000 and over.....	9	2,376	52.5	23,910,755	66.8	11,588,026	69.3
BOSTON.....	3,077	88,769	100.0	618,021,962	100.0	269,316,071	100.0	FALL RIVER.....	293	37,015	100.0	163,246,082	100.0	67,065,698	100.0
Less than \$5,000.....	368	230	0.3	998,872	0.2	663,098	0.2	Less than \$5,000.....	38	24	0.1	102,379	0.1	61,252	0.1
\$5,000 to \$20,000.....	866	2,770	3.1	9,968,945	1.6	6,322,756	2.3	\$5,000 to \$20,000.....	91	254	0.7	1,025,965	0.6	541,828	0.8
\$20,000 to \$100,000.....	1,047	11,249	12.7	49,527,446	8.0	27,229,360	10.1	\$20,000 to \$100,000.....	82	612	2.2	3,759,522	2.3	1,604,073	2.4
\$100,000 to \$500,000.....	576	21,695	24.4	128,804,691	20.8	62,274,163	23.1	\$100,000 to \$500,000.....	24	1,180	3.2	5,126,391	3.1	2,114,423	3.2
\$500,000 to \$1,000,000.....	112	11,165	12.6	79,592,823	12.9	34,329,380	12.8	\$500,000 to \$1,000,000.....	10	1,690	4.6	7,584,066	4.6	3,432,807	5.1
\$1,000,000 and over.....	108	41,650	46.9	350,029,185	56.6	138,497,324	51.4	\$1,000,000 and over.....	48	33,055	89.3	145,647,219	89.2	59,811,215	88.4
BRAINTREE.....	19	2,176	100.0	11,974,839	100.0	4,825,514	100.0	FITCHBURG.....	121	9,907	100.0	58,164,842	100.0	22,109,929	100.0
Less than \$5,000.....	3	2	0.1	8,140	0.1	6,295	0.1	Less than \$5,000.....	15	10	0.1	44,401	0.1	24,883	0.1
\$5,000 to \$20,000.....	5	15	0.7	48,993	0.4	31,007	0.6	\$5,000 to \$20,000.....	20	70	0.7	243,162	0.4	135,633	0.6
\$20,000 to \$100,000.....	4	32	1.5	188,137	1.6	70,559	1.5	\$20,000 to \$100,000.....	36	308	3.1	1,605,838	2.8	775,729	3.5
\$100,000 to \$500,000.....	4	160	7.4	1,031,459	8.6	407,877	8.5	\$100,000 to \$500,000.....	28	1,439	15.0	6,758,769	11.6	3,299,429	14.9
\$1,000,000 and over.....	3	1,907	90.4	10,698,110	89.3	4,309,776	89.3	\$500,000 to \$1,000,000.....	6	838	8.5	4,144,150	7.1	2,048,422	9.3
BROCKTON.....	217	18,059	100.0	117,855,025	100.0	43,141,744	100.0	\$1,000,000 and over.....	16	7,192	72.6	45,398,522	78.0	15,825,933	71.6
Less than \$5,000.....	14	7	(*)	36,979	(*)	26,753	0.1	FRAMINGHAM.....	59	4,362	100.0	18,842,173	100.0	8,492,362	100.0
\$5,000 to \$20,000.....	40	114	0.6	459,750	0.4	261,643	0.6	Less than \$5,000.....	8	10	0.2	19,250	0.1	13,085	0.2
\$20,000 to \$100,000.....	68	799	4.4	3,634,659	3.1	1,755,739	4.1	\$5,000 to \$20,000.....	21	50	1.1	233,112	1.2	132,966	1.6
\$100,000 to \$500,000.....	53	1,987	11.0	12,788,478	10.9	5,117,010	11.9	\$20,000 to \$100,000.....	11	82	1.9	491,850	2.6	252,098	3.0
\$500,000 to \$1,000,000.....	17	2,000	11.1	11,826,878	10.0	5,342,409	12.4	\$100,000 to \$500,000.....	9	516	11.8	1,916,066	10.2	641,709	9.9
\$1,000,000 and over.....	25	13,162	72.8	89,108,281	76.6	30,638,130	71.0	\$500,000 to \$1,000,000.....	6	894	20.5	4,361,445	23.1	2,053,607	24.2
BROOKLINE.....	32	484	100.0	2,243,311	100.0	1,201,359	100.0	\$1,000,000 and over.....	4	2,810	64.4	11,820,450	62.7	5,198,909	61.2
Less than \$5,000.....	14	25	5.2	128,984	5.7	89,103	7.4	GARDNER.....	73	4,036	100.0	13,599,682	100.0	8,413,483	100.0
\$5,000 to \$20,000.....	13	179	37.0	650,691	29.0	362,228	30.2	Less than \$5,000.....	10	7	0.2	24,967	0.2	16,340	0.2
\$20,000 to \$100,000.....	5	280	57.9	1,463,636	65.2	750,028	62.4	\$5,000 to \$20,000.....	13	37	0.9	134,118	1.0	77,198	0.9
\$100,000 and over.....	—	—	—	—	—	—	—	\$20,000 to \$100,000.....	24	377	9.3	1,163,159	8.6	674,832	8.0
CAMBRIDGE.....	339	22,550	100.0	127,864,901	100.0	58,737,978	100.0	\$100,000 to \$500,000.....	20	1,344	33.3	4,897,094	36.0	2,971,130	35.3
Less than \$5,000.....	32	18	0.1	91,347	0.1	62,575	0.1	\$500,000 and over.....	6	2,271	56.3	7,380,344	54.3	4,679,988	55.6
\$5,000 to \$20,000.....	82	261	1.2	973,522	0.8	575,203	1.0	GLOUCESTER.....	90	2,684	100.0	18,803,673	100.0	6,094,623	100.0
\$20,000 to \$100,000.....	98	1,030	4.6	4,682,382	3.7	2,294,140	3.9	Less than \$5,000.....	13	5	0.2	34,012	0.2	17,738	0.3
\$100,000 to \$500,000.....	94	5,275	23.4	22,899,684	17.9	11,357,025	19.3	\$5,000 to \$20,000.....	26	76	2.8	276,551	1.5	153,370	2.5
\$500,000 to \$1,000,000.....	16	2,409	10.7	11,780,603	9.2	6,031,067	10.3	\$20,000 to \$100,000.....	28	247	9.2	1,241,594	6.6	599,693	9.3
\$1,000,000 and over.....	27	13,559	60.1	87,437,368	68.4	38,417,968	65.4	\$100,000 to \$500,000.....	17	496	18.5	3,762,386	20.0	1,257,028	20.6
CHELSEA.....	123	6,580	100.0	32,536,518	100.0	15,833,334	100.0	\$500,000 and over.....	6	1,860	69.3	13,489,131	71.7	4,096,794	67.2
Less than \$5,000.....	17	10	0.2	44,251	0.1	27,260	0.2	GREENFIELD.....	53	2,750	100.0	9,481,382	100.0	6,641,333	100.0
\$5,000 to \$20,000.....	21	47	0.7	192,439	0.6	106,766	0.7	Less than \$5,000.....	5	4	0.1	20,364	0.2	12,198	0.2
\$20,000 to \$100,000.....	41	342	5.2	1,822,811	5.6	858,674	5.4	\$5,000 to \$20,000.....	20	82	3.0	245,924	2.6	159,239	2.4
\$100,000 to \$500,000.....	31	1,293	19.7	6,297,069	19.3	3,068,313	19.4	\$20,000 to \$100,000.....	18	312	11.3	866,886	9.1	551,830	8.3
\$500,000 to \$1,000,000.....	4	494	7.5	2,997,512	9.2	1,891,184	8.8	\$100,000 to \$500,000.....	7	338	12.3	1,610,141	17.0	828,945	12.5



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

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
HOLYOKE.....	176	17,773	100.0	\$93,426,775	100.0	\$42,266,793	100.0	NATICK.....	49	1,463	100.0	\$7,393,397	100.0	\$2,440,808	100.0
Less than \$5,000.....	9	1	(1)	22,098	(1)	14,309	(1)	Less than \$5,000.....	10	2	0.2	28,605	0.4	19,447	0.8
\$5,000 to \$20,000.....	58	161	0.9	762,005	0.8	436,449	1.0	\$5,000 to \$20,000.....	11	25	1.7	102,713	1.4	57,073	2.3
\$20,000 to \$100,000.....	40	386	2.2	1,706,629	1.8	736,066	1.7	\$20,000 to \$100,000.....	12	178	12.2	634,647	8.6	262,234	10.7
\$100,000 to \$500,000.....	28	1,445	8.1	7,624,395	8.2	3,406,970	8.1	\$100,000 to \$500,000.....	11	730	50.3	3,079,569	41.7	1,225,674	50.2
\$500,000 to \$1,000,000.....	23	3,020	17.0	17,094,644	18.3	6,822,055	16.1	\$500,000 and over.....	5	521	35.6	3,547,863	48.0	876,380	35.5
\$1,000,000 and over.....	18	12,760	71.8	66,217,004	70.9	30,850,944	73.0								
LAWRENCE.....	194	30,319	100.0	183,449,096	100.0	72,490,486	100.0	NEW BEDFORD.....	267	41,630	100.0	210,773,312	100.0	88,202,554	100.0
Less than \$5,000.....	18	12	(1)	52,148	(1)	33,507	(1)	Less than \$5,000.....	35	25	0.1	99,011	(1)	64,033	0.1
\$5,000 to \$20,000.....	75	158	0.5	866,996	0.5	410,934	0.6	\$5,000 to \$20,000.....	79	200	0.5	917,540	0.4	529,637	0.6
\$20,000 to \$100,000.....	44	417	1.4	2,023,096	1.1	912,599	1.3	\$20,000 to \$100,000.....	79	700	1.7	3,180,297	1.5	1,558,392	1.8
\$100,000 to \$500,000.....	25	856	2.8	5,530,865	3.0	2,822,897	3.9	\$100,000 to \$500,000.....	35	1,689	3.8	7,681,487	3.6	3,907,277	4.4
\$500,000 to \$1,000,000.....	8	859	2.8	5,475,889	3.0	2,589,622	3.6	\$1,000,000 and over.....	39	39,116	94.0	108,894,977	94.4	82,143,215	93.1
\$1,000,000 and over.....	24	28,017	92.4	169,501,102	92.4	65,720,897	90.7								
LEOMINSTER.....	92	5,793	100.0	24,923,790	100.0	11,085,176	100.0	NEWBURYPORT.....	64	3,960	100.0	20,595,015	100.0	7,915,411	100.0
Less than \$5,000.....	15	6	0.1	26,049	0.1	15,073	0.1	Less than \$5,000.....	9	8	0.2	27,795	0.1	17,175	0.2
\$5,000 to \$20,000.....	12	38	0.7	121,945	0.5	66,027	0.6	\$5,000 to \$20,000.....	14	19	0.5	146,260	0.7	60,002	0.8
\$20,000 to \$100,000.....	29	547	9.4	1,564,285	6.3	965,248	8.7	\$20,000 to \$100,000.....	18	313	7.9	922,804	4.5	486,433	6.1
\$100,000 to \$500,000.....	22	1,055	28.6	5,374,440	21.6	2,831,901	25.5	\$100,000 to \$500,000.....	15	1,102	27.8	3,652,508	17.7	1,750,201	22.1
\$500,000 to \$1,000,000.....	7	949	16.4	5,215,602	20.9	2,016,762	18.2	\$1,000,000 and over.....	8	2,518	63.6	15,845,648	76.9	5,601,640	70.8
\$1,000,000 and over.....	7	2,598	44.8	12,620,509	50.6	5,190,105	46.8								
LOWELL.....	291	30,111	100.0	137,801,538	100.0	60,809,030	100.0	NEWTON.....	49	2,547	100.0	15,524,567	100.0	7,096,098	100.0
Less than \$5,000.....	33	20	0.1	84,588	0.1	58,717	0.1	Less than \$5,000.....	7	2	0.1	18,359	0.1	15,302	0.2
\$5,000 to \$20,000.....	97	250	0.8	1,083,609	0.8	571,609	0.9	\$5,000 to \$20,000.....	12	37	1.5	174,368	1.1	101,855	1.4
\$20,000 to \$100,000.....	81	842	2.8	3,604,038	2.6	1,676,155	2.8	\$20,000 to \$100,000.....	18	171	6.7	790,569	5.1	474,760	6.7
\$100,000 to \$500,000.....	41	2,145	7.1	9,056,810	6.6	4,618,834	7.6	\$100,000 to \$500,000.....	7	443	17.4	2,804,810	18.1	1,087,378	15.3
\$500,000 to \$1,000,000.....	15	1,980	6.6	11,340,492	8.2	5,336,422	8.8	\$1,000,000 and over.....	5	1,894	74.4	11,736,461	75.6	5,410,794	76.3
\$1,000,000 and over.....	24	24,874	82.0	112,606,001	81.8	48,549,543	79.8								
LYNN.....	442	27,355	100.0	160,905,792	100.0	75,896,440	100.0	NORTH ADAMS.....	65	6,023	100.0	36,203,767	100.0	13,917,945	100.0
Less than \$5,000.....	36	21	0.1	97,542	0.1	70,442	0.1	Less than \$5,000.....	12	6	0.1	38,974	0.1	25,639	0.2
\$5,000 to \$20,000.....	94	240	0.9	853,383	0.5	515,811	0.7	\$5,000 to \$20,000.....	16	56	0.9	193,700	0.5	111,259	0.8
\$20,000 to \$100,000.....	165	1,464	5.4	6,594,026	4.1	3,315,464	4.4	\$20,000 to \$100,000.....	20	200	3.3	861,629	2.4	387,643	2.8
\$100,000 to \$500,000.....	28	4,252	15.6	22,626,078	14.0	10,119,422	13.3	\$100,000 to \$500,000.....	3	121	2.0	601,994	1.4	195,764	1.4
\$500,000 to \$1,000,000.....	22	1,863	6.8	14,419,329	9.0	5,545,835	7.3	\$500,000 to \$1,000,000.....	4	493	8.2	3,107,688	8.6	1,015,864	7.2
\$1,000,000 and over.....	37	19,515	71.3	116,415,934	72.3	56,329,472	74.2	\$1,000,000 and over.....	10	5,147	85.5	31,499,882	87.0	12,181,876	87.6
MALDEN.....	108	4,723	100.0	22,077,624	100.0	12,432,649	100.0	NORTHAMPTON.....	63	3,532	100.0	17,960,620	100.0	8,610,010	100.0
Less than \$5,000.....	19	6	0.1	47,667	0.2	25,967	0.2	Less than \$5,000.....	12	5	0.1	28,590	0.2	20,032	0.2
\$5,000 to \$20,000.....	33	86	1.8	350,572	1.6	183,969	1.5	\$5,000 to \$20,000.....	17	61	1.7	195,751	1.1	113,022	1.3
\$20,000 to \$100,000.....	33	438	9.3	1,617,779	7.3	844,762	6.8	\$20,000 to \$100,000.....	20	201	5.7	688,846	3.8	363,257	4.1
\$100,000 to \$500,000.....	17	864	18.3	3,402,886	15.4	1,517,517	12.2	\$100,000 to \$500,000.....	9	876	24.8	2,825,848	15.7	1,594,605	18.5
\$1,000,000 and over.....	6	3,329	70.5	16,653,220	75.4	9,860,464	79.3	\$1,000,000 and over.....	5	2,389	67.6	14,221,595	79.2	6,529,094	75.8
MARLBOROUGH.....	48	3,798	100.0	19,044,907	100.0	5,889,069	100.0	NORTHBIDGE.....	13	3,871	100.0	13,848,897	100.0	8,003,973	100.0
Less than \$5,000.....	9	8	0.2	29,744	0.2	19,771	0.3	Less than \$5,000.....	4	3	0.1	11,430	0.1	8,031	(1)
\$5,000 to \$20,000.....	19	54	1.4	216,289	1.1	114,172	1.9	\$5,000 to \$20,000.....	3	7	0.2	27,886	0.2	13,206	0.2
\$20,000 to \$100,000.....	13	141	3.7	621,975	3.3	303,447	5.2	\$20,000 and over.....	6	3,861	99.7	13,809,681	99.7	7,987,742	99.8
\$100,000 to \$500,000.....	7	3,595	94.7	18,176,899	95.4	5,462,279	92.6								
MEDFORD.....	54	1,031	100.0	5,665,723	100.0	2,476,661	100.0	NORWOOD.....	26	2,835	100.0	20,359,242	100.0	9,599,507	100.0
Less than \$5,000.....	13	4	0.4	34,600	0.6	21,731	0.9	Less than \$20,000.....	3	5	0.2	32,349	0.2	16,718	0.2
\$5,000 to \$20,000.....	18	47	4.6	204,700	3.6	100,405	4.1	\$20,000 to \$100,000.....	11	112	4.0	375,379	1.8	188,140	2.0
\$20,000 to \$100,000.....	14	125	12.1	685,735	12.1	289,493	11.7	\$100,000 to \$500,000.....	6	699	24.7	2,631,682	12.9	1,623,598	15.9
\$100,000 to \$500,000.....	5	282	27.4	1,141,427	20.1	448,026	18.1	\$1,000,000 and over.....	6	2,019	71.2	17,819,852	85.1	7,771,051	81.0
\$500,000 and over.....	4	573	55.6	3,699,261	63.5	1,617,006	65.3								
MELROSE.....	27	1,606	100.0	6,083,698	100.0	3,006,861	100.0	PEABODY.....	91	8,013	100.0	52,908,722	100.0	21,590,914	100.0
Less than \$5,000.....	4	4	0.2	15,291	0.3	10,694	0.4	Less than \$5,000.....	4	4	(1)	10,520	(1)	5,647	(1)
\$5,000 to \$20,000.....	9	24	1.5	80,935	1.3	42,211	1.4	\$5,000 to \$20,000.....	27	86	1.1	403,902	0.8	205,782	1.0
\$20,000 to \$100,000.....	7	96	6.0	430,644	7.1	235,522	7.9	\$20,000 to \$100,000.....	22	428	5.3	1,447,759	2.7	851,030	3.9
\$100,000 to \$500,000.....	7	1,482	92.3	5,550,828	91.3	2,715,434	90.3	\$100,000 to \$500,000.....	21	1,271	15.9	5,497,426	10.4	2,667,395	12.4
								\$500,000 to \$1,000,000.....	3	483	6.0	1,837,219	3.5	885,390	4.1
								\$1,000,000 and over.....	14	5,741	71.8	43,709,896	82.6	16,975,670	78.6
METHUEN.....	33	2,571	100.0	14,214,905	100.0	5,140,711	100.0	PITTSFIELD.....	90	8,570	100.0	41,613,356	100.0	21,896,100	100.0
Less than \$5,000.....	10	6													



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

CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.		CITY AND VALUE OF PRODUCT.	Number of establishments.	WAGE EARNERS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.			Average number.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
REVERE.....	31	126	100.0	\$787,294	100.0	\$318,193	100.0	WATERTOWN.....	25	8,420	100.0	\$47,297,519	100.0	\$27,563,346	100.0
Less than \$5,000.....	8	2	1.6	26,303	3.4	10,575	3.3	Less than \$20,000.....	6	7	0.1	30,341	0.1	19,356	0.1
\$5,000 to \$20,000.....	13	20	15.9	130,303	17.0	58,191	18.3	\$20,000 to \$100,000.....	6	52	0.6	268,127	0.6	134,256	0.5
\$20,000 to \$100,000.....	7	32	25.4	218,199	28.4	86,528	27.2	\$100,000 to \$500,000 <sup>1</sup> .....	6	256	3.0	2,176,787	4.6	965,940	2.4
\$100,000 to \$500,000.....	3	72	57.1	392,429	51.1	162,899	51.2	\$1,000,000 and over.....	7	8,105	96.3	44,822,264	94.8	26,743,794	97.0
SALEM.....	153	5,672	100.0	30,437,957	100.0	13,510,464	100.0	WEBSTER.....	24	3,849	100.0	28,400,765	100.0	9,610,046	100.0
Less than \$5,000.....	22	15	0.3	59,487	0.2	39,846	0.3	Less than \$20,000.....	6	12	0.3	74,441	0.3	39,894	0.4
\$5,000 to \$20,000.....	30	123	2.2	436,837	1.4	250,718	1.9	\$20,000 to \$100,000.....	7	47	1.2	205,631	0.7	93,953	1.0
\$20,000 to \$100,000.....	51	702	12.4	2,361,521	7.8	1,275,342	9.4	\$100,000 to \$500,000 <sup>1</sup> .....	5	235	6.1	1,160,030	4.1	488,340	5.1
\$100,000 to \$500,000.....	28	1,307	23.0	6,489,632	21.3	3,463,543	25.6	\$1,000,000 and over.....	6	3,555	92.4	26,960,663	94.9	8,987,869	93.5
\$500,000 to \$1,000,000.....	5	583	10.3	3,509,733	11.5	1,293,641	9.6	WESTFIELD.....	85	3,243	100.0	14,278,973	100.0	7,338,198	100.0
\$1,000,000 and over.....	8	2,942	51.9	17,577,747	57.7	7,187,374	53.2	Less than \$5,000.....	8	2	0.1	18,240	0.1	10,486	0.1
SAUGUS.....	14	126	100.0	1,157,215	100.0	291,602	100.0	\$5,000 to \$20,000.....	31	81	2.5	349,113	2.4	189,570	2.6
Less than \$20,000.....	9	3	2.4	36,243	3.1	15,877	5.4	\$20,000 to \$100,000.....	27	361	11.1	1,135,115	7.9	611,736	8.3
\$20,000 and over.....	5	123	97.6	1,120,972	96.9	275,725	94.6	\$100,000 to \$500,000.....	13	625	19.3	2,595,730	18.2	1,303,180	17.8
SOMERVILLE.....	140	6,111	100.0	99,558,513	100.0	12,461,172	100.0	\$500,000 to \$1,000,000.....	3	486	15.0	2,584,200	18.1	1,335,771	18.2
Less than \$5,000.....	23	18	0.3	63,176	0.1	39,325	0.3	\$1,000,000 and over.....	3	1,638	52.0	7,596,575	53.2	3,887,455	53.0
\$5,000 to \$20,000.....	35	85	1.4	389,365	0.4	193,486	1.6	WEST SPRINGFIELD..	23	2,791	100.0	12,386,556	100.0	6,001,071	100.0
\$20,000 to \$100,000.....	49	579	9.5	2,312,326	2.3	1,160,726	9.3	Less than \$5,000.....	5	2	0.1	13,412	0.1	8,241	0.1
\$100,000 to \$500,000.....	23	1,071	17.5	5,124,047	5.1	2,350,914	18.9	\$5,000 to \$20,000.....	6	14	0.5	69,663	0.6	31,473	0.5
\$500,000 to \$1,000,000.....	4	322	5.3	2,610,251	2.6	778,579	6.2	\$20,000 to \$100,000.....	6	39	1.4	213,342	1.7	85,471	1.4
\$1,000,000 and over.....	6	4,036	66.0	89,059,348	89.5	7,938,142	63.7	\$100,000 to \$500,000 <sup>1</sup> .....	3	341	12.2	1,516,711	12.2	596,633	9.9
SOUTHBRIDGE.....	41	5,329	100.0	18,252,814	100.0	10,770,641	100.0	\$1,000,000 and over.....	3	2,395	85.8	10,573,428	85.4	5,270,253	88.0
Less than \$5,000.....	9	5	0.1	30,795	0.2	17,383	0.2	WEYMOUTH.....	34	2,146	100.0	16,836,997	100.0	5,708,132	100.0
\$5,000 to \$20,000.....	6	18	0.3	64,356	0.4	40,377	0.4	Less than \$5,000.....	9	7	0.3	22,350	0.1	14,620	0.3
\$20,000 to \$100,000.....	14	160	3.0	606,838	3.3	254,029	2.4	\$5,000 to \$20,000.....	7	32	1.5	76,263	0.5	39,258	0.7
\$100,000 to \$500,000.....	8	681	12.8	2,003,288	11.0	1,342,785	12.5	\$20,000 to \$100,000.....	5	123	5.7	337,282	2.0	156,594	2.7
\$500,000 and over.....	4	4,465	83.8	15,547,537	85.2	9,116,067	84.6	\$100,000 to \$500,000.....	8	310	14.4	2,112,926	12.5	785,492	13.8
SPRINGFIELD.....	401	18,429	100.0	98,332,955	100.0	50,529,775	100.0	\$1,000,000 and over.....	5	1,674	78.0	14,288,176	84.9	4,712,168	82.6
Less than \$5,000.....	53	27	0.1	130,322	0.1	80,637	0.2	WINCHESTER.....	17	1,112	100.0	9,697,701	100.0	3,476,837	100.0
\$5,000 to \$20,000.....	129	397	2.2	1,513,090	1.5	833,337	1.6	\$5,000 to \$20,000.....	4	20	1.8	56,624	0.6	32,299	0.9
\$20,000 to \$100,000.....	123	1,449	7.9	5,671,228	5.7	3,171,052	6.3	\$20,000 to \$100,000.....	6	131	11.8	355,334	3.7	184,284	5.3
\$100,000 to \$500,000.....	56	3,128	17.0	15,168,282	15.4	7,711,514	15.3	\$100,000 and over.....	7	961	86.4	9,285,743	95.8	3,260,254	93.8
\$500,000 to \$1,000,000.....	15	1,952	10.6	10,304,318	10.5	5,349,839	10.6	WINTHROP.....	19	61	100.0	330,234	100.0	126,808	100.0
\$1,000,000 and over.....	25	11,476	62.3	65,645,715	66.8	33,374,396	66.0	Less than \$5,000.....	8	1	1.6	20,798	6.3	13,504	10.6
TAUNTON.....	107	8,981	100.0	48,330,638	100.0	20,544,073	100.0	\$5,000 to \$20,000.....	7	25	41.0	85,895	26.0	39,435	31.1
Less than \$5,000.....	29	21	0.2	101,997	0.2	59,937	0.3	\$20,000 to \$100,000.....	4	35	57.4	223,541	67.7	73,869	58.3
\$5,000 to \$20,000.....	51	87	1.0	484,130	1.0	243,813	1.2	WOBURN.....	53	2,011	100.0	13,980,185	100.0	6,430,591	100.0
\$20,000 to \$100,000.....	24	268	3.0	1,105,602	2.3	573,720	2.8	Less than \$5,000.....	5	5	0.2	14,754	0.1	9,288	0.1
\$100,000 to \$500,000.....	41	2,114	23.5	9,144,550	18.9	4,471,191	21.8	\$5,000 to \$20,000.....	9	30	1.5	107,165	0.8	53,909	0.8
\$500,000 to \$1,000,000.....	8	829	9.2	5,513,323	11.4	2,024,007	9.9	\$20,000 to \$100,000.....	20	281	14.0	976,308	7.0	490,389	7.6
\$1,000,000 and over.....	14	5,662	63.0	31,981,036	66.2	13,171,355	64.1	\$100,000 to \$500,000.....	12	624	31.0	3,032,868	21.7	1,597,661	24.8
WAKEFIELD.....	32	1,869	100.0	8,977,010	100.0	3,395,222	100.0	\$500,000 to \$1,000,000.....	3	318	15.8	1,095,096	14.3	1,014,702	15.8
Less than \$5,000.....	4	2	0.1	12,871	0.1	8,405	0.2	\$1,000,000 and over.....	4	753	37.4	7,853,094	56.2	3,264,642	50.8
\$5,000 to \$20,000.....	9	17	0.9	88,717	1.0	56,441	1.7	WORCESTER.....	618	38,673	100.0	208,705,773	100.0	102,524,771	100.0
\$20,000 to \$100,000.....	9	124	6.6	606,640	6.8	275,655	8.1	Less than \$5,000.....	84	47	0.1	201,408	0.1	145,454	0.1
\$100,000 to \$500,000.....	7	306	16.4	1,438,703	16.0	538,677	15.9	\$5,000 to \$20,000.....	132	415	1.1	1,550,104	0.7	879,695	0.9
\$1,000,000 and over.....	3	1,420	76.0	6,830,079	76.1	2,516,044	74.1	\$20,000 to \$100,000.....	194	2,271	5.9	9,840,417	4.7	5,303,008	5.2
WALTHAM.....	93	8,069	100.0	20,578,515	100.0	14,044,781	100.0	\$100,000 to \$500,000.....	136	6,945	18.0	31,771,827	15.2	16,006,281	15.7
Less than \$5,000.....	10	6	0.1	30,995	0.1	23,245	0.2	\$500,000 to \$1,000,000.....	35	5,801	15.0	24,984,366	12.0	12,798,305	12.5
\$5,000 to \$20,000.....	31	109	1.4	347,155	1.7	209,904	1.5	\$1,000,000 and over.....	37	23,194	60.0	140,357,651	67.3	67,332,028	65.7
\$20,000 to \$100,000.....	28	443	5.5	1,454,160	7.0	849,313	6.0								
\$100,000 to \$500,000 <sup>1</sup> .....	19	1,320	16.4	5,109,231	24.5	3,040,410	21.6								
\$1,000,000 and over.....	5	6,191	76.7	13,936,974	66.8	9,921,909	70.6								

<sup>1</sup> Includes the group "\$500,000 to \$1,000,000."



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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISH- MENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All oth- ers.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
All industries.....	1919	5,319	4,697	1,890	713,838	41,322	621,783	50,731	5.8	87.1	7.1	\$4,011,181,532	\$219,327,951	\$3,483,117,043	\$308,736,538	5.5	86.8	7.7				
	1914	5,902	3,984	2,127	606,698	44,683	500,711	61,304	7.4	82.5	10.1	1,641,373,047	117,430,275	1,346,397,046	177,545,726	7.2	82.0	10.8				
	1909	6,015	3,483	2,186	584,559	55,318	468,301	60,940	9.5	80.1	10.4	1,490,523,386	137,804,436	1,182,935,652	169,789,208	9.2	79.4	11.4				
Boot and shoe cut stock...	1919	81	56	45	4,631	983	2,666	982	21.2	57.6	21.2	86,214,106	11,815,892	49,662,078	24,836,136	13.7	57.5	28.8				
	1914	96	38	40	3,781	1,132	1,806	1,043	29.9	42.5	27.6	35,636,848	6,535,914	15,524,218	13,576,714	18.3	43.6	38.1				
Boot and shoe findings....	1919	108	85	61	5,896	1,452	3,046	1,398	24.6	51.7	23.7	44,357,147	9,265,531	22,974,592	12,117,024	20.9	51.8	27.3				
	1914	111	59	70	4,389	1,200	1,984	1,205	27.3	45.2	27.5	19,021,309	4,992,540	9,611,120	4,417,649	26.2	50.5	23.2				
Boots and shoes, not in- cluding rubber boots and shoes.	1919	127	284	82	80,166	7,185	65,294	7,687	9.0	81.4	9.6	442,466,236	35,885,805	365,672,087	40,008,344	8.1	82.6	9.2				
	1914	147	188	129	76,944	6,562	60,682	13,700	8.5	73.7	17.8	200,529,858	15,782,303	149,231,773	35,535,782	7.9	74.4	17.7				
Boots and shoes, rubber...	1919	8	8	8	13,062	13,062	13,062	13,062	100.0	100.0	100.0	44,307,961	44,307,961	44,307,961	44,307,961	100.0	100.0	100.0				
	1914	9	9	9	8,087	8,087	8,087	8,087	100.0	100.0	100.0	23,788,788	23,788,788	23,788,788	23,788,788	100.0	100.0	100.0				
Boxes, paper and other, not elsewhere specified.	1919	29	57	16	4,711	644	3,468	599	13.7	73.6	12.7	15,666,081	1,929,631	11,813,603	1,922,847	12.3	75.4	12.3				
	1914	30	50	17	4,244	553	2,869	822	13.0	67.6	19.4	7,084,975	842,799	4,019,325	2,222,851	11.9	56.7	31.4				
Boxes, wooden packing, except cigar boxes.	1919	24	38	13	3,232	310	2,300	622	9.6	71.2	19.2	15,050,531	1,302,829	10,083,280	3,664,442	8.7	67.0	24.3				
	1914	41	35	15	2,995	853	1,677	465	28.5	56.0	15.5	7,710,614	2,125,012	4,161,317	1,434,235	27.6	53.8	18.6				
Brass, bronze, and copper products.	1919	29	29	14	2,832	165	2,309	268	5.8	84.7	9.5	16,943,199	897,410	14,924,843	1,120,945	5.3	88.1	6.6				
	1914	36	23	14	1,620	179	1,321	120	11.0	81.5	7.4	5,068,863	493,440	5,102,825	362,598	8.3	85.6	6.1				
Bread and other bakery products.	1919	1,018	112	179	8,583	3,175	4,326	1,082	37.0	50.4	12.6	66,017,267	24,271,377	32,628,966	9,116,924	36.8	49.4	13.8				
	1914	1,179	68	172	8,083	3,319	3,394	1,370	41.1	42.0	16.9	33,309,051	13,663,609	18,628,909	5,486,533	41.0	42.5	16.5				
Cars and general shop con- struction and repairs by steam-railroad compa- nies.	1919	14	14	14	7,724	7,724	7,724	7,724	100.0	100.0	100.0	22,637,990	22,637,990	22,637,990	22,637,990	100.0	100.0	100.0				
	1914	15	15	15	6,264	6,264	6,264	6,264	100.0	100.0	100.0	8,829,665	8,829,665	8,829,665	8,829,665	100.0	100.0	100.0				
Chemicals.....	1919	3	20	4	2,483	42	2,404	37	1.7	96.8	1.5	17,805,166	169,139	16,866,495	269,532	1.0	97.5	1.6				
	1914	2	17	5	1,395	1,374	1,374	1,374	98.5	98.5	1.5	6,084,918	6,084,918	6,084,918	1,160,183	97.6	97.6	2.4				
Chocolate and cocoa prod- ucts.	1919	6	6	6	2,007	2,007	2,007	2,007	100.0	100.0	100.0	30,327,397	30,327,397	30,327,397	30,327,397	100.0	100.0	100.0				
	1914	5	5	5	943	943	943	943	100.0	100.0	100.0	10,209,949	10,209,949	10,209,949	10,209,949	100.0	100.0	100.0				
Clothing, men's.....	1919	85	55	67	6,856	1,412	3,764	1,680	20.6	54.9	24.5	41,475,028	6,457,293	24,095,179	10,922,556	15.6	58.1	26.3				
	1914	106	42	65	5,760	1,535	2,792	1,433	26.6	48.5	24.9	16,217,637	2,783,400	9,967,338	3,466,949	17.2	61.5	21.4				
Clothing, women's.....	1919	96	71	91	6,271	1,542	2,618	2,111	24.6	41.7	33.7	30,427,592	7,232,186	10,457,704	12,737,702	23.8	34.4	41.9				
	1914	85	51	66	6,076	1,475	2,440	2,161	24.3	40.2	35.6	13,982,587	3,391,138	5,386,178	5,205,271	24.3	38.5	37.2				
Coffee and spice, roasting and grinding.	1919	8	10	5	512	30	357	125	5.9	69.7	24.4	16,977,791	758,056	11,506,801	4,712,874	4.5	67.8	27.8				
	1914	5	12	4	466	23	311	132	4.9	66.7	28.3	8,675,047	347,692	5,807,811	2,959,544	4.0	61.9	34.1				
Confectionery and ice cream.	1919	125	90	63	11,585	673	10,261	621	5.8	88.8	5.4	68,896,835	4,755,039	58,839,091	5,302,155	6.9	85.4	7.7				
	1914	155	60	58	7,250	690	6,239	321	9.5	86.1	4.4	22,901,916	2,597,221	19,032,595	1,272,100	11.3	83.1	5.6				
Cotton goods.....	1919	4	182	5	122,499	228	121,909	365	0.2	99.5	0.3	506,687,441	1,405,069	503,637,370	1,645,002	0.2	99.5	0.3				
	1914	4	152	9	112,609	231	110,722	1,656	0.2	98.3	1.5	195,481,626	435,251	191,691,119	3,355,250	0.2	98.1	1.7				
Cutlery and edge tools....	1919	19	28	4	3,988	184	3,722	32	4.6	94.6	0.8	19,672,750	598,538	18,973,074	101,138	3.0	96.4	0.5				
	1914	12	20	5	1,947	102	1,813	32	5.2	93.1	1.6	4,354,119	181,231	4,129,551	43,337	4.2	94.8	1.0				
Dyeing and finishing tex- tiles, exclusive of that done in textile mills.	1919	6	52	4	12,321	224	11,207	890	1.8	91.0	7.2	75,261,815	1,268,201	61,998,544	11,995,070	1.7	82.4	15.9				
	1914	7	45	5	11,437	244	10,376	817	2.1	90.7	7.1	22,455,086	347,305	20,149,734	1,958,047	1.5	89.7	8.7				
Electrical machinery, ap- paratus, and supplies.	1919	18	86	6	23,889	199	23,655	35	0.8	99.0	0.1	91,938,738	985,985	90,746,156	206,597	1.1	98.7	0.2				
	1914	20	67	4	17,125	260	16,812	53	1.5	98.2	0.3	43,899,294	793,483	42,937,803	133,308	1.8	97.9	0.3				
Foundry and machine- shop products. <sup>1</sup>	1919	258	409	98	51,680	2,944	46,857	1,879	5.7	90.7	3.6	201,538,303	10,294,952	183,332,407	7,910,944	5.1	91.0	3.9				
	1914	248	333	124	32,687	2,534	28,566	1,587	7.8	87.4	4.9	66,605,499	5,027,884	57,395,043	3,182,572	7.7	87.5	4.9				
Furniture.....	1919	42	80	39	6,342	350	5,177	815	5.5	81.6	12.9	23,688,923	1,285,904	19,083,171	3,319,848	5.4	80.6	14.0				
	1914	42	60	32	6,813	557	5,390	866	8.2	79.1	12.7	13,826,765	1,003,925	11,033,584	1,789,266	7.3	79.8	12.9				
Gas, illuminating and heating.	1919	49	2	2	2,654	2,654	2,654	2,654	100.0	100.0	100.0	24,231,095	24,231,095	24,231,095	24,231,095	100.0	100.0	100.0				
	1914	1	56	4	3,182	3,053	1,129	1,129	95.9	95.9	4.1	15,751,637	15,751,637	15,751,637	1,395,728	97.5	97.5	2.5				
Iron and steel, steel works and rolling mills.	1919	1	10	10	3,684	3,684	3,684	3,684	100.0	100.0	100.0	30,969,601	30,969,601	30,969,601	30,969,601	100.0	100.0	100.0				
	1914	1	10	10	2,889	2,889	2,889	2,889	100.0	100.0	100.0	11,376,008	11,376,008	11,376,008	11,376,008	100.0	100.0	100.0				
Jewelry.....	1919	49	66	50	6,786	877	3,863	2,036	13.1	56.9	30.0	34,816,822	3,890,055	23,178,188	7,748,579	11.2	66.6	22.3				
	1914	67	76	59	6,505	879	3,684	1,942	13.5	56.6	29.9	14,176,857	1,699,658	8,737,846	3,738,353	12.0	61.6	26.4				
Knit goods.....	1919	16	51	10	12,751	223	11,700	828	1.7	91.8	6.5	52,424,235	1,058,752	45,701,425	5,664,558	2.0	87.2	10.8				
	1914	2																				



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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISH- MENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All oth- ers.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
Printing and publishing, newspapers and peri- odicals.	1919	143	203	66	5,885	472	4,798	615	8.0	81.5	10.5	\$46,801,145	\$1,916,192	\$39,482,457	\$5,402,496	4.1	84.4	11.5				
	1914	157	227	72	6,032	729	4,776	527	12.1	79.2	8.7	26,719,398	1,599,707	22,899,525	2,220,166	6.0	85.7	8.3				
Rubber tires, tubes, and rubber goods, not else- where specified.	1919	7	39	1	9,406	191	9,215	.....	2.0	98.0	.....	93,376,505	1,002,679	92,373,826	.....	1.1	98.9	.....				
	1914	8	38	1	4,743	17	4,736	.....	0.1	99.9	.....	23,011,349	141,439	22,969,910	.....	0.2	99.8	.....				
Silk goods, including throwsters.	1919	2	16	3	5,697	.....	5,136	561	.....	90.2	9.8	34,193,951	.....	30,909,691	3,284,260	.....	90.4	9.6				
	1914	5	11	3	4,405	436	3,814	245	9.7	84.8	5.5	10,676,681	1,308,624	9,014,503	353,554	12.3	84.4	3.3				
Slaughtering and meat packing.	1919	22	13	5	4,307	83	4,178	46	1.9	97.0	1.1	110,238,038	3,030,961	106,246,049	960,428	2.7	96.4	0.9				
	1914	23	18	5	3,233	73	3,090	70	2.3	95.6	2.2	51,724,520	958,181	49,584,273	1,182,066	1.9	95.9	2.3				
Soap.....	1919	7	15	5	1,008	9	989	10	0.9	98.1	1.0	18,729,572	126,236	18,520,896	82,440	0.7	98.9	0.4				
	1914	10	17	5	460	18	384	58	3.9	83.5	12.6	4,671,310	122,687	4,176,134	372,489	2.6	89.4	8.0				
Stationery goods, not else- where specified.	1919	9	17	4	3,305	69	2,884	372	2.1	86.7	11.3	15,161,819	278,862	12,989,840	1,893,117	1.8	85.7	12.5				
	1914	5	18	4	2,467	78	2,020	369	3.2	81.9	15.0	6,511,512	171,805	5,358,260	981,447	2.6	82.3	15.1				
Tools, not elsewhere speci- fied.	1919	48	47	22	7,220	273	6,669	284	3.8	92.3	3.9	29,158,834	1,171,330	28,934,649	1,052,855	4.0	92.4	3.6				
	1914	49	37	14	4,538	288	4,138	112	6.3	91.2	2.5	8,619,903	470,552	7,961,612	187,739	5.5	92.4	2.2				
Wire.....	1919	.....	7	2	5,203	.....	5,203	.....	100.0	.....	.....	24,552,410	.....	24,552,410	.....	100.0	.....	.....				
	1914	.....	6	2	2,899	.....	2,899	.....	100.0	.....	.....	8,389,073	.....	8,389,073	.....	100.0	.....	.....				
Woolen goods.....	1919	12	82	17	17,568	1,140	14,469	1,959	6.5	82.4	11.2	105,183,068	6,570,790	87,280,892	11,331,386	6.2	83.0	10.8				
	1914	12	56	18	13,844	1,370	9,759	2,715	9.9	70.5	19.6	28,391,184	2,675,488	20,261,633	5,454,065	9.4	71.4	19.2				
Worsted goods.....	1919	4	59	8	36,236	234	34,922	1,140	0.6	96.2	3.1	237,443,077	1,394,307	228,132,276	7,916,494	0.6	96.1	3.3				
	1914	5	58	7	39,533	136	38,112	1,285	0.3	96.4	3.3	98,960,250	192,340	94,679,155	4,088,755	0.2	95.7	4.1				
Total for cities.....	1919	4,388	3,957	1,602	609,671	35,146	534,328	40,197	5.8	87.6	6.6	3,462,478,225	192,042,261	3,016,580,886	253,855,078	5.5	87.1	7.3				
	1914	4,793	3,814	1,744	508,397	36,065	424,908	45,424	7.1	83.9	9.0	1,390,652,276	97,946,220	1,162,883,069	139,822,987	7.0	82.9	10.1				
ADAMS.....	1919	14	12	6	3,974	30	3,840	104	0.8	96.6	2.6	15,076,858	234,682	14,251,021	591,155	1.6	94.5	3.9				
	1914	20	10	5	3,930	47	3,817	66	1.2	97.1	1.7	6,530,232	180,396	6,098,136	251,700	2.8	93.4	3.9				
AMESBURY.....	1919	14	19	11	3,173	106	2,770	297	3.3	87.3	9.4	16,309,509	881,998	14,457,739	969,772	5.4	88.6	5.9				
	1914	26	20	13	1,451	173	1,044	234	11.9	72.0	16.1	3,551,434	419,759	2,457,156	674,519	11.8	69.2	19.0				
ARLINGTON.....	1919	18	8	1	228	181	147	.....	35.5	64.5	.....	1,006,207	402,060	604,147	.....	40.0	60.0	.....				
	1914	10	6	3	246	29	179	38	11.8	72.8	15.4	641,092	91,465	448,648	100,979	14.3	70.0	15.8				
ATTLEBORO.....	1919	51	47	40	6,763	582	4,195	1,988	8.6	62.0	29.4	34,471,577	3,143,610	24,196,883	7,131,084	9.1	70.2	20.7				
	1914	54	54	43	6,058	533	4,108	1,417	8.8	67.8	23.4	13,946,884	1,008,207	9,703,405	3,235,272	7.2	69.6	23.2				
BELMONT.....	1919	4	2	.....	93	93	.....	.....	100.0	.....	.....	374,586	374,586	.....	.....	100.0	.....	.....				
BEVERLY.....	1919	36	21	13	6,495	529	5,623	343	8.1	86.6	5.3	21,829,684	1,902,379	18,114,087	1,723,218	9.1	83.0	7.9				
	1914	38	14	15	4,641	611	3,560	470	13.2	76.7	10.1	8,774,187	1,633,302	6,044,906	1,096,279	18.6	68.9	12.5				
BOSTON.....	1919	1,365	1,218	494	88,759	9,552	71,339	7,888	10.8	80.4	8.9	618,921,962	53,395,108	501,765,774	63,761,080	8.6	81.1	10.3				
	1914	1,587	1,073	528	78,994	10,275	69,222	9,397	13.0	75.1	11.9	284,802,479	27,547,022	222,159,459	35,095,998	9.7	78.0	12.3				
BRAINTREE.....	1919	8	10	1	2,176	154	2,122	.....	2.5	97.5	.....	11,974,839	1,500,668	11,474,171	.....	4.2	95.8	.....				
BROCKTON.....	1919	62	105	50	18,069	718	16,119	1,222	4.0	89.3	6.8	117,855,025	4,652,156	102,611,791	10,591,078	3.9	87.1	9.0				
	1914	89	92	62	16,246	780	13,510	1,950	4.8	83.2	12.0	51,259,181	2,556,153	41,620,693	7,082,285	5.0	81.2	13.8				
BROOKLINE.....	1919	18	11	3	494	143	330	11	29.5	68.2	2.3	2,243,311	640,582	1,374,091	228,638	28.6	61.3	10.2				
	1914	9	5	7	335	54	230	51	16.1	68.7	15.2	658,502	104,942	489,939	113,621	15.9	66.8	17.3				
CAMBRIDGE.....	1919	128	167	44	22,550	989	20,225	1,356	4.3	89.7	6.0	127,864,901	5,022,880	113,118,372	9,723,649	3.9	88.5	7.6				
	1914	128	146	42	16,749	1,008	14,432	1,309	6.0	86.2	7.8	57,483,949	2,984,029	50,030,803	4,469,117	5.2	87.0	7.8				
CHELSEA.....	1919	49	48	26	6,580	307	5,384	889	4.7	81.8	13.5	32,536,518	1,925,130	24,801,479	5,809,909	5.9	76.2	17.9				
	1914	61	41	21	6,241	264	5,148	829	4.2	82.5	13.3	16,971,028	870,536	13,932,184	2,168,308	5.1	82.1	12.8				
CHICOPEE.....	1919	25	29	6	10,068	124	9,916	28	1.2	98.5	0.3	89,772,534	546,736	88,997,232	228,566	0.6	99.1	0.3				
	1914	28	26	8	8,420	112	8,254	60	1.3	98.0	0.7	28,869,162	311,935	28,465,373	91,844	1.1	98.6	0.3				
CLINTON.....	1919	15	14	4	4,155	28	4,115	12	0.7	99.0	0.3	15,179,819	147,937	14,983,661	48,221	1.0	98.7	0.3				
	1914	23	12	1	4,004	37	4,024	3	0.9	99.0	0.1	6,735,297	136,124	6,591,273	7,900	2.0	97.9	0.1				
DANVERS.....	1919	10	13	2	1,474	125	1,349	.....	8.5	91.5	.....	11,541,839	1,483,627	11,058,212	.....	4.2	95.8	.....				
DEDHAM.....	1919	14	5	1	463	1240	223	.....	51.8	48.2	.....	1,737,673	11,008,014	729,659	.....	58.0	42.0	.....				
	1914	9	4	2	256	23	227	6	9.0	88.7	2.3	427,690	56,320	361,350	10,011	13.2	84.5	2.3				
EASTHAMPTON.....	1919	13	10	5	4,142	31	3,416	695	0.7	82.5	16.8	37,942,121	99,809	28,472,624	9,369,688	0.3	75.0	24.7				
EVERETT.....	1919	29	61	14	4,523	351	3,759	413	7.8	83.1	9.1	35,775,728	1,948,991	30,996,472	2,830,265	5.4	86.6	7.9				
	1914	31	42	12	3,226	154	2,616	456	4.7	81.2	14.1	13,219,200	495,473	11,423,355	1,300,372	3.8	86.4	9.8				
FALL RIVER.....	1919	150	106	37	37,015	606	36,012	397	1.6	97.3	1.1	163,246,082	3,102,776	157,995,842	2,147,464	1.9	96.8	1.3				
	1914	181	92	42	36,534</																	



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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISH- MENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
						Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.							
GLOUCESTER.....	1919	35	42	13	2,684	105	2,468	111	3.9	92.0	4.1	\$18,803,673	\$778,234	\$17,553,013	\$477,426	4.1	93.3	2.5				
	1914	36	29	22	2,814	229	2,203	322	8.1	80.4	11.5	8,533,964	667,191	6,997,958	878,815	7.7	82.0	10.3				
GREENFIELD.....	1919	19	26	8	2,750	62	2,620	68	2.3	95.3	2.5	9,481,382	506,233	8,808,072	167,077	5.3	92.9	1.8				
	1914	21	23	6	1,602	131	1,424	47	8.2	88.9	2.9	3,527,101	226,590	2,963,334	337,177	6.4	84.0	9.6				
HAVERHILL.....	1919	166	126	113	15,783	3,427	8,794	3,562	21.7	55.7	22.6	96,270,853	20,497,070	51,141,825	24,637,958	21.3	53.1	25.6				
	1914	212	72	114	13,281	2,973	6,003	4,305	22.3	45.2	32.5	42,409,246	9,741,440	17,979,582	14,688,244	23.0	42.4	34.6				
HOLYOKE.....	1919	74	80	22	17,773	351	16,584	838	2.0	93.3	4.7	93,426,775	2,277,460	88,015,938	3,133,377	2.4	94.2	3.4				
	1914	104	88	30	17,493	470	16,558	465	2.7	94.6	2.7	44,041,155	1,057,481	41,413,664	1,570,010	2.4	94.0	3.6				
LAWRENCE.....	1919	102	73	19	30,319	902	29,291	126	3.0	96.6	0.4	183,449,096	3,654,659	179,050,079	738,358	2.0	97.6	0.4				
	1914	136	66	30	31,043	810	29,003	1,230	2.6	93.4	4.0	73,177,803	2,008,687	67,589,014	3,580,102	2.7	92.4	4.9				
LEOMINSTER.....	1919	29	48	15	5,793	386	4,879	528	6.7	84.2	9.1	24,928,790	1,176,775	21,169,230	2,582,785	4.7	84.9	10.4				
	1914	31	44	14	4,929	378	4,098	453	7.7	83.1	9.2	10,838,024	778,585	9,195,460	863,979	7.2	84.8	8.0				
LOWELL.....	1919	144	103	44	30,111	1,042	28,750	319	3.5	95.5	1.1	137,801,538	5,212,282	131,118,104	1,471,152	3.8	95.1	1.1				
	1914	169	91	40	29,904	1,100	28,241	554	3.7	94.4	1.9	56,048,641	2,525,323	52,285,160	1,238,158	4.5	93.3	2.2				
LYNN.....	1919	200	158	84	27,355	4,011	21,585	1,759	14.7	78.9	6.4	160,905,792	26,384,545	117,604,363	16,916,884	16.4	73.1	10.5				
	1914	109	116	114	25,339	3,798	17,047	4,494	15.0	67.3	17.7	69,783,418	11,071,369	42,585,156	16,126,893	15.0	61.0	23.1				
MALDEN.....	1919	54	39	15	4,723	221	4,338	164	4.7	91.8	3.5	22,077,624	1,031,989	20,316,390	729,245	4.7	92.0	3.3				
	1914	40	32	14	2,850	238	2,452	160	8.4	86.0	5.6	8,366,344	656,981	7,358,072	351,341	7.9	87.9	4.2				
MARLBOROUGH.....	1919	25	16	7	3,798	68	3,720	10	1.8	97.8	0.3	19,044,907	358,870	18,592,017	94,020	1.9	97.6	0.5				
	1914	17	18	8	3,822	45	3,758	19	1.2	98.3	0.5	9,983,632	124,973	9,755,694	102,965	1.3	97.7	1.0				
MEDFORD.....	1919	27	23	4	1,031	64	902	65	6.2	87.5	6.3	5,665,723	337,631	5,128,810	199,282	6.0	90.5	3.5				
	1914	33	17	4	559	78	403	78	14.0	72.0	14.0	2,618,893	220,010	2,240,960	142,903	8.7	85.8	5.5				
MELROSE.....	1919	12	12	3	1,606	47	1,513	46	2.9	94.2	2.9	6,083,698	228,276	5,677,361	178,061	3.8	93.3	2.9				
	1914	11	11	4	962	36	767	150	3.8	79.7	16.5	2,499,029	72,227	1,919,386	507,416	2.9	76.8	20.3				
METHUEN.....	1919	23	8	2	2,571	133	2,438	.....	5.2	94.8	.....	14,214,905	1,687,884	13,527,041	.....	4.8	95.2	.....				
	1914	14	8	3	1,940	27	1,904	9	1.4	98.1	0.5	4,461,111	77,932	4,345,889	37,290	1.8	97.4	0.8				
MILFORD.....	1919	24	15	9	1,809	177	1,587	45	9.8	87.7	2.5	8,408,631	736,808	7,452,775	218,948	8.8	88.6	2.6				
	1914	28	18	13	1,740	136	1,535	78	7.8	87.8	4.4	4,028,492	358,034	3,438,320	232,138	8.9	85.3	5.8				
NATICK.....	1919	25	13	11	1,463	204	517	742	13.9	35.3	50.7	7,393,397	1,695,006	2,021,239	3,677,152	22.9	27.3	49.7				
	1914	18	10	10	1,347	229	290	828	17.1	21.5	61.4	4,660,253	1,164,967	985,556	2,415,632	25.5	21.6	52.9				
NEW BEDFORD.....	1919	142	88	37	41,630	753	40,690	187	1.8	97.7	0.4	210,773,312	3,930,618	205,223,466	1,619,228	1.9	97.4	0.8				
	1914	124	71	38	33,343	509	32,486	348	1.5	97.5	1.0	65,575,005	1,007,903	62,341,420	1,025,622	2.4	95.1	2.5				
NEWBURYPORT.....	1919	31	26	7	3,960	671	3,197	92	16.9	80.7	2.3	20,595,015	3,869,699	16,402,081	323,235	18.8	79.6	1.6				
	1914	25	19	10	3,349	544	2,276	529	16.2	68.0	15.8	8,245,998	1,213,138	5,846,296	1,186,584	14.7	70.9	14.4				
NEWTON.....	1919	20	23	6	2,547	142	2,013	392	5.0	79.0	15.4	15,524,637	1,011,492	12,216,925	2,296,150	6.5	78.7	14.8				
	1914	32	19	7	2,154	107	1,630	357	7.7	75.8	16.5	5,822,853	548,958	4,478,654	795,241	9.4	76.9	13.7				
NORTH ADAMS.....	1919	32	23	10	6,023	171	5,816	38	2.8	96.6	0.6	36,203,767	662,812	35,326,378	214,577	1.8	97.6	0.6				
	1914	33	22	15	5,288	166	4,705	417	3.1	89.0	7.9	10,922,575	307,666	9,400,346	1,154,563	3.4	86.0	10.6				
NORTHAMPTON.....	1919	33	21	9	3,532	121	2,649	762	3.4	75.0	21.6	17,960,620	505,265	14,641,189	2,814,166	2.8	81.5	15.7				
	1914	40	24	11	3,446	164	2,781	551	4.8	79.2	16.0	8,580,730	466,529	6,282,244	1,831,957	5.4	73.2	21.4				
NORTHBRIDGE.....	1919	7	3	3	3,871	11	3,860	.....	0.3	99.7	.....	13,848,897	57,098	13,791,799	.....	0.4	99.6	.....				
NORWOOD.....	1919	10	12	4	2,835	115	2,363	357	4.1	83.4	12.6	20,359,242	405,616	17,100,980	2,852,696	2.0	84.0	14.0				
PEABODY.....	1919	36	42	13	8,013	441	7,293	279	5.5	91.0	3.5	52,906,722	1,888,307	48,658,980	2,379,435	3.5	92.0	4.5				
	1914	35	32	10	5,485	634	4,647	154	12.5	84.7	2.8	18,441,906	1,319,131	16,616,104	506,671	7.2	90.1	2.7				
PITTSFIELD.....	1919	39	36	15	8,570	103	7,730	737	1.2	90.2	8.6	41,613,356	709,518	37,440,594	3,463,244	1.7	90.0	8.3				
	1914	42	29	13	7,490	125	6,704	661	1.7	89.5	8.8	22,241,237	452,361	20,309,994	1,478,882	2.0	91.3	6.7				
PLYMOUTH.....	1919	14	15	2	2,971	141	2,930	.....	1.4	98.6	.....	31,319,553	1,318,079	31,001,474	.....	1.0	99.0	.....				
	1914	19	15	3	2,345	40	2,784	21	1.4	97.9	0.7	13,904,545	158,476	13,671,605	74,464	1.2	98.3	0.5				
QUINCY.....	1919	87	30	45	19,653	566	18,818	269	2.9	95.8	1.4	68,535,406	2,528,009	64,505,704	1,501,693	3.7	94.1	2.2				
	1914	91	30	56	5,783	670	4,544	569	11.6	78.6	9.8	12,097,452	1,360,516	9,324,110	1,403,826	11.3	77.1	11.6				
REVERE.....	1919	22	6	3	126	31	91	4	24.6	72.2	3.2	767,294	226,536	506,953	33,905	29.5	66.1	4.4				
	1914	22	3	2	80	30	50	.....	37.5	62.5	.....	349,696	144,242	202,615	2,839	41.3	57.9	0.8				
SALEM.....	1919	64	61	28	5,672	409	3,815	1,448	7.2	67.3	25.5	30,437,957	2,274,729	20,842,377	7,320,851	7.5	68.5	24.1				
	1914	96	46	36	5,294	793	2,992	1,509	15.0	56.5	28.5	13,652,586	1,907,717	8,336,860	3,408,009	14.0	61.0	25.0				
SAUGUS.....	1919	7	4	3	126	5	119	2	4.0	94.4	1.6	1,167,215	49,405	1,089,772	18,038	4.3	94.2	1.6				
SOMERVILLE.....	1919	73	52	15	6,111	544	5,366	201	8.9	87.8	3.3	99,558,513	2,881,301	95,186,058	1,511,154	2.9	95.6	1.5				
	1914	70																				



## MANUFACTURES—MASSACHUSETTS.

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

INDUSTRY AND CITY.	Cen- sus year.	NUMBER OF ESTABLISH- MENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
					Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.						
		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.		Indi- vid- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Corpora- tions.	All oth- ers.				
WAKEFIELD.....	1919	13	16	3	1,869	30	1,298	541	1.6	69.4	28.9	\$8,977,010	\$213,579	\$5,838,835	\$2,024,596	2.4	65.0	32.6				
	1914	6	12	4	2,008	25	1,398	585	1.3	69.6	29.1	8,057,659	50,262	4,198,384	1,809,013	0.8	69.3	29.9				
WALTHAM.....	1919	43	36	14	8,069	398	7,472	199	4.9	92.6	2.5	20,878,515	1,265,820	18,544,958	1,067,728	6.1	88.8	5.1				
	1914	50	28	10	6,466	303	6,014	148	4.7	93.0	2.3	10,236,912	615,646	9,195,339	425,927	6.0	89.8	4.2				
WATERTOWN.....	1919	4	15	6	8,420	15	8,049	356	0.2	95.6	4.2	47,297,519	93,132	44,967,917	2,236,470	0.2	95.1	4.7				
	1914	10	16	4	4,787	9	4,773	5	0.2	99.7	0.1	14,764,326	27,460	14,698,319	38,547	0.2	99.5	0.3				
WEBSTER.....	1919	12	11	1	3,849	1294	3,555	.....	7.6	92.4	.....	28,400,765	1,697,002	26,702,863	.....	6.0	94.0	.....				
	1914	9	12	2	3,246	39	3,081	176	1.2	93.4	5.4	9,233,919	83,307	8,845,967	304,645	0.9	95.8	3.3				
WESTFIELD.....	1919	39	29	17	3,243	217	2,797	229	6.7	86.2	7.1	14,278,973	798,394	12,458,830	1,021,749	5.6	87.3	7.2				
	1914	51	27	22	3,584	249	3,013	322	6.9	84.1	9.0	8,420,439	1,359,590	6,803,744	757,105	16.1	74.9	9.0				
WEST SPRINGFIELD.....	1919	14	8	1	2,791	139	2,752	.....	1.4	98.6	.....	12,886,556	1236,548	12,150,008	.....	1.9	98.1	.....				
	1914	15	8	6	2,209	24	2,173	12	1.1	98.4	0.5	5,039,953	91,795	4,896,418	51,740	1.8	97.2	1.0				
WEYMOUTH.....	1919	16	15	3	2,146	60	1,969	117	2.8	91.8	5.5	16,836,997	186,092	16,160,842	490,063	1.1	96.0	2.9				
	1914	23	11	6	2,074	90	1,579	405	4.3	76.1	19.6	8,251,041	171,264	6,924,194	1,155,583	2.1	83.9	14.0				
WINCHESTER.....	1919	6	10	1	1,112	185	1,027	.....	7.6	92.4	.....	9,697,701	1234,864	9,462,837	.....	2.4	97.6	.....				
	1914	9	10	.....	1,048	79	969	.....	7.5	92.5	.....	5,159,479	201,804	4,957,675	.....	3.9	96.1	.....				
WINTHROP.....	1919	15	2	2	61	52	19	.....	85.2	14.8	.....	330,234	191,823	1138,411	.....	58.1	41.9	.....				
	1914	9	1	.....	16	14	2	.....	87.5	12.5	.....	77,994	50,931	27,063	.....	65.3	34.7	.....				
WOBURN.....	1919	23	25	5	2,011	233	1,633	145	11.6	81.2	7.2	13,980,185	950,394	12,565,146	464,645	6.8	89.9	3.3				
	1914	29	21	7	1,565	340	1,002	223	21.7	64.0	14.3	5,517,806	797,652	3,990,872	729,282	14.5	72.3	13.2				
WORCESTER.....	1919	237	283	93	38,673	1,838	33,864	2,971	4.8	87.6	7.7	208,705,773	8,787,610	184,466,745	15,451,418	4.2	88.4	7.4				
	1914	272	225	109	29,452	2,067	24,195	3,190	7.0	82.2	10.8	82,820,356	4,809,102	69,615,856	8,404,398	5.8	84.1	10.1				

1 Includes the group "All others."

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

	Cen- sus year.	Aggregate.	CITIES HAVING A POPULATION OF 10,000 OR OVER.								THE STATE OUTSIDE OF CITIES HAVING A POPULATION OF 10,000 OR OVER.	
			Total.		10,000 to 25,000.		25,000 to 100,000.		100,000 and over.		Number or amount.	Per cent of aggre- gate.
			Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.		
Number of places.....	1919 1914 1909		66 59 54		39 33 29		20 19 20		7 7 5			
Population 1.....	1920 1915 1910	3,852,356 3,605,522 3,366,416	3,144,077 2,876,682 2,606,380	81.6 79.8 77.4	594,111 494,004 435,391	15.4 13.7 12.9	1,028,383 932,020 1,008,483	26.7 25.9 30.0	1,521,583 1,450,058 1,162,506	30.5 40.2 34.5	708,279 728,840 760,036	18.4 20.2 22.6
Number of establishments.....	1919 1914 1909	11,906 12,013 11,684	9,947 9,851 9,208	83.5 82.0 78.8	1,740 1,617 1,427	14.6 13.5 12.2	2,921 2,931 3,124	24.5 24.4 26.7	5,286 5,303 4,657	44.4 44.1 39.9	1,959 2,162 2,476	16.5 18.0 21.2
Average number of wage earners.....	1919 1914 1909	713,836 606,693 584,559	609,671 506,397 477,134	85.4 83.5 81.0	126,170 93,119 84,242	17.7 15.3 14.4	206,334 173,862 205,982	28.9 28.7 35.2	277,167 239,416 186,910	38.8 39.5 32.0	104,165 100,801 107,425	14.6 16.5 18.4
Value of products.....	1919 1914 1909	\$4,011,181,532 1,841,373,047 1,490,529,386	\$3,462,478,225 1,380,652,276 1,234,417,010	86.3 84.7 82.8	\$673,035,635 235,555,479 201,047,032	16.8 14.4 13.5	\$1,223,796,067 499,265,367 543,367,703	30.5 30.4 36.5	\$1,565,646,523 655,831,430 490,002,275	39.0 40.0 32.9	\$548,703,307 250,720,771 256,112,376	13.7 15.3 17.2
Value added by manufacture.....	1919 1914 1909	1,750,468,496 709,939,254 659,764,443	1,510,299,854 606,736,515 548,219,736	86.3 85.5 83.1	291,944,685 104,061,660 90,791,505	16.7 14.7 13.8	521,169,292 204,494,856 229,499,986	29.8 28.8 34.8	697,185,877 298,179,969 227,928,185	39.8 42.0 34.5	240,168,642 103,252,739 111,544,707	13.7 14.5 16.9

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



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

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.			Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
BOSTON.					FALL RIVER—Continued.				
Confectionery and ice cream.....	\$46,096,820	66.9	\$30,851,080	202.4	Foundry and machine-shop products <sup>4</sup> .....	\$3,907,201	2.2	\$2,843,244	267.2
Boot and shoe cut stock.....	35,443,382	41.1	24,330,648	219.2	Cotton small wares.....	1,947,518	23.0	1,468,534	306.6
Foundry and machine-shop products <sup>2</sup> .....	34,130,476	19.2	21,796,256	176.7	Bread and other bakery products.....	1,874,956	2.8	857,724	84.3
Printing and publishing, newspapers and periodicals.....	33,607,374	71.8	15,692,204	87.6	Belting, leather.....	738,944	18.7	( <sup>3</sup> )	( <sup>3</sup> )
Clothing, men's.....	31,337,508	75.6	17,608,195	128.3	Bags, other than paper, not including bags made in textile mills.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Boots and shoes, not including rubber boots and shoes.....	27,526,886	6.2	14,273,476	107.7	Cordage and twine.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Chocolate and cocoa products.....	24,277,494	80.1	( <sup>3</sup> )	( <sup>3</sup> )	Gas, illuminating and heating.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Printing and publishing, book and job.....	22,809,951	54.8	10,736,573	88.9	Hats, fur-felt.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Bread and other bakery products.....	21,680,632	32.8	10,267,254	90.0	HAVERHILL.				
Clothing, women's.....	20,655,935	67.9	11,047,177	115.0	Boots and shoes, not including rubber boots and shoes.....	59,699,812	13.5	34,379,859	135.8
Coffee and spice, roasting and grinding.....	16,239,248	95.6	7,775,753	91.9	Boot and shoe cut stock.....	14,024,501	17.3	8,717,528	140.4
Electrical machinery, apparatus, and supplies.....	10,671,247	11.6	7,036,332	193.6	Boot and shoe findings.....	9,424,749	21.2	5,810,321	129.1
Liquors, malt.....	8,956,330	60.9	120,058	1.4	Boxes, wooden packing, except cigar boxes.....	964,350	6.4	366,517	61.3
Druggists' preparations.....	8,661,345	86.7	7,844,992	961.0	Boxes, set-up paper boxes and cartons.....	729,455	4.7	444,223	155.7
Tobacco, cigars and cigarettes.....	8,400,426	72.7	1,772,448	26.7	Bread and other bakery products.....	694,375	1.1	411,643	145.6
Steam fittings and steam and hot-water heating apparatus.....	8,134,716	60.4	5,053,758	164.0	Hats, wool-felt.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Slaughtering and meat packing.....	6,651,615	6.0	1,630,472	30.0	Leather, tanned, curried, and finished.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Food preparations, not elsewhere specified.....	5,666,552	59.0	3,166,395	126.6	Paper and wood pulp.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Furniture.....	5,344,428	22.6	3,116,340	139.9	Woolen goods.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Pickles, preserves, and sauces.....	5,240,494	83.9	3,273,133	165.9	HOLYOKE.				
Cars and general shop construction and repairs by steam-railroad companies.....	4,728,165	20.9	-296,151	-5.9	Paper and wood pulp.....	21,375,894	24.5	8,197,369	62.2
House-furnishing goods, not elsewhere specified.....	4,685,175	60.8	4,468,105	2,058.4	Stationery goods, not elsewhere specified.....	4,491,361	29.6	2,600,352	137.5
Copper, tin, and sheet-iron work.....	4,619,480	55.6	2,343,483	103.0	Paper goods, not elsewhere specified.....	3,644,794	26.9	1,718,230	88.7
Musical instruments, pianos.....	4,552,210	56.0	1,744,634	62.1	Bookbinding and blank-book making.....	2,852,417	34.9	1,577,657	123.8
Cotton goods.....	4,407,023	0.7	3,179,415	258.9	Foundry and machine-shop products.....	2,387,961	2.1	1,299,587	119.4
Knit goods.....	4,204,571	8.0	2,608,890	163.5	Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	1,346,854	10.7	708,501	110.5
Cutlery and edge tools.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Bread and other bakery products.....	950,597	1.4	389,823	69.6
Ordnance and accessories.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Cotton goods.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Sugar, refining, not including beet sugar.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Pumps, steam.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
BROCKTON.					Silk goods.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Boots and shoes, not including rubber boots and shoes.....	81,543,541	18.4	46,510,876	132.8	Worsted goods.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Boot and shoe findings.....	14,075,890	31.7	8,741,958	163.9	Worsted goods.....	125,760,608	53.0	( <sup>3</sup> )	( <sup>3</sup> )
Boot and shoe cut stock.....	5,978,865	6.9	2,223,337	59.2	Cotton goods.....	20,937,148	3.5	13,794,021	193.1
Lasts.....	1,857,436	31.6	1,273,078	217.9	Foundry and machine-shop products <sup>4</sup> .....	3,892,342	2.2	2,619,601	205.8
Foundry and machine-shop products.....	929,057	0.8	497,732	115.4	Paper and wood pulp.....	3,697,046	4.2	( <sup>3</sup> )	( <sup>3</sup> )
Printing, job.....	920,823	2.2	438,619	91.0	Bread and other bakery products.....	1,409,364	2.1	609,625	76.2
Blacking, stains, and dressings.....	837,536	11.8	408,001	95.0	Boots and shoes, not including rubber boots and shoes.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Bread and other bakery products.....	809,788	1.2	-259,732	-24.3	Carpets and rugs, other than rag.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Cotton small wares.....	800,950	9.7	( <sup>3</sup> )	( <sup>3</sup> )	Dyeing and finishing textiles, exclusive of that done in textile mills.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Confectionery and ice cream.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Wool scouring.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Gas, illuminating and heating.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Woolen goods.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Iron and steel, nails and spikes, not made in steel works or rolling mills.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	LAWRENCE.				
Suspenders, garters, and elastic woven goods.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Worsted goods.....	125,760,608	53.0	( <sup>3</sup> )	( <sup>3</sup> )
CAMBRIDGE.					Cotton goods.....	20,937,148	3.5	13,794,021	193.1
Confectionery and ice cream.....	11,460,261	16.6	7,652,552	201.0	Foundry and machine-shop products <sup>4</sup> .....	3,892,342	2.2	2,619,601	205.8
Bread and other bakery products.....	9,094,101	13.8	5,139,608	130.0	Paper and wood pulp.....	3,697,046	4.2	( <sup>3</sup> )	( <sup>3</sup> )
Electrical machinery, apparatus, and supplies.....	8,718,570	9.5	( <sup>3</sup> )	( <sup>3</sup> )	Bread and other bakery products.....	1,409,364	2.1	609,625	76.2
Printing and publishing, book and job.....	7,821,316	18.8	4,956,400	173.0	Boots and shoes, not including rubber boots and shoes.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Foundry and machine-shop products <sup>4</sup> .....	5,766,380	4.3	4,232,966	276.0	Carpets and rugs, other than rag.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Furniture.....	2,178,731	9.2	894,967	69.7	Dyeing and finishing textiles, exclusive of that done in textile mills.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Musical instruments, pianos.....	1,601,707	19.7	( <sup>3</sup> )	( <sup>3</sup> )	Wool scouring.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Structural ironwork, not made in steel works or rolling mills.....	1,543,477	23.1	588,207	61.6	Woolen goods.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Copper, tin, and sheet-iron work.....	1,509,124	18.1	( <sup>3</sup> )	( <sup>3</sup> )	LOWELL.				
Boxes, set-up paper boxes.....	1,447,157	9.2	848,377	141.7	Cotton goods.....	60,451,404	10.1	37,445,483	162.8
Bookbinding and blank-book making.....	1,280,108	15.6	862,544	206.6	Knit goods.....	17,172,099	32.8	( <sup>3</sup> )	( <sup>3</sup> )
Automobiles.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Foundry and machine-shop products <sup>4</sup> .....	9,469,973	5.3	6,681,521	239.6
Belting and hose, rubber.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Dyeing and finishing textiles, exclusive of that done in textile mills.....	5,369,860	7.1	3,929,594	272.8
Blacking, stains, and dressings.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Woolen goods.....	5,368,558	5.1	4,163,095	345.7
Boots and shoes, rubber.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Worsted goods.....	4,429,638	1.9	1,710,447	62.9
Clothing, men's.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Boots and shoes, not including rubber boots and shoes.....	3,137,655	0.7	-411,388	-11.6
Gas, illuminating and heating.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Bread and other bakery products.....	1,723,608	2.6	989,464	134.8
Grease and tallow, not including lubri- cating greases.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Patent medicines and compounds.....	1,512,540	16.6	717,299	90.2
Ink, writing.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Boxes, wooden packing, except cigar boxes.....	1,245,871	8.3	589,652	89.9
Needles, pins, and hooks and eyes.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Lumber, planing-mill products, not in- cluding planing mills connected with sawmills.....	1,131,274	9.0	664,640	142.4
Nets and seines.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Ammunition.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Oleomargarine, and other butter sub- stitutes.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Gas, illuminating and heating.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Pumps, steam.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Leather, tanned, curried, and finished.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Soap.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	Liquors, malt.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Stationery goods, not elsewhere specified.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	LYNN.				
FALL RIVER.					Boots and shoes, not including rubber boots and shoes.....	66,457,349	15.0	36,390,534	121.0
Cotton goods.....	135,783,717	22.8	86,267,690	174.2	Electrical machinery, apparatus, and sup- plies.....	33,149,457	36.1	( <sup>3</sup> )	( <sup>3</sup> )
Dyeing and finishing textiles, exclusive of that done in textile mills.....	8,250,120	11.0	( <sup>3</sup> )	( <sup>3</sup> )	Boot and shoe cut stock.....	23,152,402	26.9	12,724,972	122.0
					Leather, tanned, curried, and finished.....	15,824,162	12.2	11,975,491	311.2
					Boot and shoe findings.....	7,057,957	15.9	3,661,144	107.8
					Bread and other bakery products.....	1,631,554	2.5	847,521	108.1
					Lasts.....	1,479,362	25.1	1,090,255	280.2
					Foundry and machine-shop products.....	1,209,363	1.1	685,825	131.0
					Blacking, stains, and dressings.....	942,601	13.3	417,150	79.4
					Mucilage, paste, and other adhesives, not elsewhere specified.....	710,039	28.6	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> A minus sign (-) denotes decrease.<sup>2</sup> Includes "iron and steel, tempering and welding," and "textile machinery and parts."<sup>3</sup> Figures can not be shown without disclosing individual operations.<sup>4</sup> Includes "iron and steel, welding," and "machine tools."<sup>5</sup> Includes "iron and steel, welding," and "textile machinery and parts."<sup>6</sup> Includes "textile machinery and parts."



## MANUFACTURES—MASSACHUSETTS.

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

CITY AND INDUSTRY.	VALUE OF PRODUCTS.				CITY AND INDUSTRY.	VALUE OF PRODUCTS.			
	Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.			Amount, 1919.	Per cent of total for the state.	Increase <sup>1</sup> over 1914.	
			Amount.	Per cent.				Amount.	Per cent.
LYNN—Continued.					SPRINGFIELD—Continued.				
Boxes, set-up paper boxes.....	\$505,239	3.2	—\$230,709	—31.3	Chemicals.....	(2)	(2)	(2)	(2)
Printing, job.....	501,081	1.2	156,236	45.3	Chocolate and cocoa products.....				
Boxes, wooden packing, except cigar boxes.	(2)	(2)	(2)	(2)	Clothing, men's.....				
Gas, illuminating and heating.....					Cotton goods.....				
Patent and proprietary medicines.....					Envelopes.....				
NEW BEDFORD.					Firearms.....				
Cotton goods.....	177,058,520	29.7	125,202,286	242.0	Gas, illuminating and heating.....				
Bread and other bakery products.....	2,409,319	3.6	1,190,552	97.7	Iron and steel, forgings, not made in steel works or rolling mills.....				
Oil, animal and composite.....	1,890,030	43.3	(2)	(2)	Knit goods.....				
Foundry and machine-shop products <sup>2</sup> .....	1,385,682	0.8	863,426	165.3	Motorcycles, bicycles, and parts.....				
Printing and publishing, newspapers and periodicals.....	659,405	1.4	249,197	60.7	Slaughtering and meat packing.....				
Sausage, not made in slaughtering and meat-packing establishments.....	573,008	10.8	261,590	84.0	Sporting and athletic goods.....				
Boot and shoe findings.....					Toys and games.....				
Boots and shoes, not including rubber boots and shoes.....					WORCESTER.				
Brass and bronze products.....	(2)	(2)	(2)	(2)	Foundry and machine-shop products <sup>2</sup> .....	\$36,104,377	17.9	\$25,200,412	231.1
Gas, illuminating and heating.....					Boots and shoes, not including rubber boots and shoes.....	7,396,821	1.7	4,769,077	181.5
Glass.....					Envelopes.....	6,469,355	59.5	3,605,955	125.9
Paper goods, not elsewhere specified.....	(2)	(2)	(2)	(2)	Cotton goods.....	5,884,459	1.0	5,158,482	730.7
Silk goods, including throwsters.....					Corsets.....	5,235,051	77.4	1,801,544	52.5
Tools, not elsewhere specified.....					Woolen goods.....	4,782,280	4.5	3,091,795	182.9
					Worsted goods.....	4,082,705	1.7	2,188,047	115.5
					Electrical machinery, apparatus, and sup- plies.....	3,110,870	3.4	2,839,592	1,047.5
					Tools, not elsewhere specified.....	3,020,205	10.4	2,001,671	621.4
					Bread and other bakery products.....	2,865,707	4.3	1,358,092	90.1
					Clothing, women's.....	2,701,668	8.9	1,050,115	63.6
					Musical instruments, piano and organ ma- terials.....	2,250,862	47.3	1,663,441	278.9
					Printing and publishing, newspapers and periodicals.....	2,132,957	4.6	1,208,114	130.6
SOMERVILLE.					Wirework, not elsewhere specified.....	1,750,514	38.7	—853,320	—32.8
Slaughtering and meat packing <sup>4</sup> .....	84,740,246	73.3	48,405,051	188.2	Stamped ware, not elsewhere specified.....	1,511,691	57.5	464,202	44.3
Bread and other bakery products.....	1,652,912	2.5	985,038	147.5	Clothing, men's.....	1,238,117	3.0	569,687	35.2
Grease and tallow, not including lubricating greases.....	609,832	8.3	(2)	(2)	Structural ironwork, not made in steel works or rolling mills.....	1,142,349	17.1	477,469	71.8
Confectionery and ice cream.....	493,031	0.7	181,834	58.4	Cutlery and edge tools.....	1,132,696	5.8	894,747	376.0
Bags, paper, not including bags made in paper mills.....	(2)	(2)	(2)	(2)	Dyeing and finishing textiles, exclusive of that done in textile mills.....	1,016,184	1.4	268,349	35.9
Brass, bronze, and copper products.....					Carpets and rugs, other than rag.....				
Cars and general shop construction and repairs by steam-railroad companies.....					Emery and other abrasive wheels.....				
Food preparations, not elsewhere specified.....					Gas, illuminating and heating.....				
Furniture, wood, other than rattan and willow.....					Iron and steel, steel works and rolling mills.....				
					Iron and steel, forgings, not made in steel works or rolling mills.....				
					Leather, tanned, curried, and finished.....				
					Liquors, malt.....	(2)	(2)	(2)	(2)
					Ordnance and accessories.....				
					Screws, wood.....				
SPRINGFIELD.					Slaughtering and meat packing.....				
Foundry and machine-shop products <sup>2</sup> .....	8,683,567	6.4	5,889,463	210.8	Suspenders, garters, and elastic woven goods.....				
Electrical machinery, apparatus, and sup- plies.....	7,276,769	7.0	3,262,092	81.3	Trunks and valises.....				
Bread and other bakery products.....	4,347,014	6.6	2,932,013	207.4	Wire.....				
Brass and bronze products.....	3,467,771	20.5	2,987,287	621.7					
Confectionery and ice cream.....	2,648,450	3.8	1,419,343	115.5					
Stationary goods, not elsewhere specified.....	2,354,496	15.5	(2)	(2)					
Printing and publishing, newspapers and periodicals.....	2,297,506	4.9	370,575	19.2					
Printing and publishing, book and job.....	2,288,133	5.5	1,068,463	87.6					
Automobile bodies and parts.....	1,759,735	12.2	1,374,683	357.0					
Saws.....	1,349,950	32.2	(2)	(2)					
Tobacco, cigars.....	1,250,382	10.8	330,177	35.9					

<sup>1</sup> A minus sign (—) denotes decrease.<sup>2</sup> Figures can not be shown without disclosing individual operations.<sup>3</sup> Includes "textile machinery and parts."<sup>4</sup> Includes "sausage, not made in slaughtering and meat-packing establishments."<sup>5</sup> Includes "iron and steel, welding," and "machine tools."<sup>6</sup> Includes "machine tools" and "textile machinery and parts."



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

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
	1919	1914	1909	Amount.			Per cent distribution.		
				1919	1914	1909	1919	1914	1909
Primary power, total.....	71,287	33,617	19,279	1,729,878	1,396,722	1,175,071	100.0	100.0	100.0
Owned.....	5,927	7,205	8,485	1,165,461	1,180,573	1,040,438	67.4	84.5	88.5
Steam.....	4,208	4,893	5,784	964,982	970,506	855,596	55.3	69.5	71.1
Engines.....	3,766	(?)	(?)	694,531	(?)	(?)	40.1		
Turbines.....	502	(?)	(?)	270,401	(?)	(?)	15.6		
Internal-combustion engines.....	1,407	770	896	11,227	20,242	18,326	0.6	1.4	1.6
Water.....	1,252	1,542	1,895	189,302	189,825	189,516	10.9	13.6	15.9
Water wheels and turbines.....	1,243	1,480	1,750	189,210	188,917	188,996	10.9	13.5	15.8
Water motors.....	9	62	55	92	908	520	(?)	0.1	(?)
Rented.....	65,360	26,412	10,794	564,417	216,149	134,633	32.6	15.5	11.5
Electric.....	65,360	26,412	10,794	551,521	200,339	109,996	31.9	14.3	9.4
Other.....				12,896	15,810	24,637	0.7	1.1	2.1
Electric.....	105,056	56,927	29,344	975,795	582,971	402,492	100.0	100.0	100.0
Rented.....	65,360	26,412	10,794	551,521	200,339	109,996	56.5	34.4	27.3
Generated by establishments reporting.....	39,696	30,515	18,550	424,274	382,632	292,496	43.5	65.6	72.7

<sup>1</sup> Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power. <sup>2</sup> Not reported separately. <sup>3</sup> Less than one-tenth of 1 per cent.

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

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
All industries.....	693,759	5,634,701	501,293	3,663,077	90,483	1,222,444
Per cent of increase.....	1914. 664,428 4.4	5,506,406 2.3	223,132 124.7	844,251 344.6	(1) (1)	630,455 63.9
Automobile bodies and parts.....	1,452	11,521	15	510	638	1,755
Belt and hose, rubber.....	250	40,205	274		28	
Boot and shoe findings.....	1,879	13,254	83	236	3	3,039
Boots and shoes, not including rubber boots and shoes.....	12,432	70,949	362	20,148	131	9,598
Boots and shoes, rubber.....	12,089	45,992		531	4,561	
Brass, bronze, and copper products.....	12,211	20,904	2,710	30,216	29	6,470
Bread and other bakery products.....	31,810	18,457	34,169	1,298	370	67,991
Brick and tile, terra-cotta, and fire-clay products.....	4,966	16,614	78			444
Carpets and rugs, other than rag.....	3,646	24,861				
Cars and general shop construction and repairs by steam-railroad companies.....	6	42,795	200,271	14,676	116	821
Chemicals.....	16,187	44,699	133	6,775		751
Chocolate and cocoa products.....	3,359	18,861				24,976
Coal-tar products.....	802	10,965	2,861		43	3,167
Coke, not including gas-house coke.....		477,782				
Confectionery and ice cream.....	5,943	20,292	400	19	191	67,051
Cotton goods.....	59,035	1,089,539	1,364	43,262	1,005	9,780
Cutlery and edge tools.....	2,289	9,666	287	4,648	403	3,419
Dyeing and finishing textiles, exclusive of that done in textile mills.....	44,023	231,339		239,373	44	18,328
Electrical machinery, apparatus, and supplies.....	6,707	95,077	6,125	237,720	9,984	171,886
Emery and other abrasive wheels.....	19,714	23,429	289			166
Felt goods.....	1,815	22,080				
Foundry and machine-shop products.....	7,077	103,151	49,826	45,753	1,359	40,585
Furniture.....	1,177	19,824	246	23	7	992
Gas, illuminating and heating.....	116,577	572,102	119,862	1,785,176	17,762	
Glue, not elsewhere specified.....	6,208	25,100	735	44		4,184
Grease and tallow, not including lubricating greases.....	1,266	24,734	52	16	2,725	
Ice, manufactured.....	16	17,824		1,003	83	
Iron and steel, steel works and rolling mills.....	1,342	142,309	1,226	278,441	366	107,817
Iron and steel, forgings, not made in steel works or rolling mills.....	1,216	28,185	20	95,754	184	16,794
Knit goods.....	4,886	42,503	74	8	1	1,339
Leather, tanned, curried, and finished.....	35,421	145,060	152	25	8,188	723
Lime.....	15	30,044	2,802		236	
Liquors, malt.....	1,176	41,405	1,377			
Machine tools.....	1,683	17,452	1,515	7,590	145	19,119
Marble and stone work.....	635	16,983	66	202	164	1,119
Musical instruments, pianos.....		11,365	72			120
Optical goods.....	397	15,123		2,863		12,015
Ordnance and accessories.....	40	13,366	451	2,077	510	
Paper and wood pulp.....	64,120	520,482		62,278		5,000
Paper goods, not elsewhere specified.....	1,261	16,104				354
Plumbers' supplies, not elsewhere specified.....	947	10,642	101	750		533
Printing and publishing, newspapers and periodicals.....	2,851	8,610	27	10,399	46	73,547
Pumps, steam and other power.....		1,745	3,435	10,963	2,105	64
Roofing materials.....	24	10,273	1,513	4,489		
Rubber tires, tubes, and rubber goods, not elsewhere specified.....	853	90,702	2,689	156	4,189	110
Shipbuilding, steel.....	11	41,544	5,132	32,294		15
Silk goods, including throwsters.....	2,000	17,488				38
Slaughtering and meat packing.....	66,313	12,567	120		110	2,024
Steam fittings and steam and hot-water heating apparatus.....	3,385	8,416	10,828	11,073	309	12,649
Sugar, refining, not including beet sugar.....	10,850	110,520				

<sup>1</sup> Included in figures for fuel oils.



## MANUFACTURES—MASSACHUSETTS.

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

INDUSTRY AND CITY.	COAL.		Coke (tons, 2,000 pounds).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	Gas (1,000 cubic feet).
	Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).				
Suspenders, garters, and elastic woven goods.....	252	12,127				9
Textile machinery and parts.....	2,780	61,183	17,247	14,678	211	25,023
Tools, not elsewhere specified.....	3,021	20,514	485	31,348	305	41,012
Wire.....	2,429	96,647	174	82,970	2,644	6,089
Wool scouring.....	362	20,109	45			
Wool shoddy.....	14	10,959				
Woolen goods.....	8,777	175,588	75	45	21,702	
Worsted goods.....	11,929	345,084	434	494,973	50	947
All other industries.....	91,273	399,516	31,036	88,270	9,636	460,701
Total for cities.....	608,016	4,763,210	282,218	2,422,902	86,520	1,170,353
ADAMS.....	7,835	55,400	2,814			
AMESBURY.....	1,199	11,094	878	4,746	3	985
ARLINGTON.....	4,292	1,343	238		10,594	237
ATTLEBORO.....	1,591	26,045	1,339	5,592	86	76,968
BELMONT.....	2,009	2,428	15			100
BEVERLY.....	1,568	27,474	3,612	4,147		6,704
BOSTON.....	52,827	395,320	27,510	91,689	1,207	390,150
BRAINTREE.....	2,834	7,527	1,427	6,814	1	294
BROCKTON.....	17,900	55,892	1,242	11,314	66	2,487
BROOKLINE.....	297	420	1			4,228
CAMBRIDGE.....	29,639	190,482	10,722	35,369	1,384	19,664
CHELSEA.....	3,866	35,656	8,928	510	56	37,671
CHICOPEE.....	10,090	66,127	324	14,984	3	3,105
CLINTON.....	1,703	34,197	360	1,837	705	407
DANVERS.....	107	15,900	58	1		4,221
DEDHAM.....	1,524	6,937		1		905
EASTHAMPTON.....	8,603	18,063	144	3,800	3	96
EVERETT.....	24,516	501,706	115,684	380,057	472	6,793
FALL RIVER.....	22,047	425,957	2,375	20,341	469	10,465
FITCHBURG.....	7,635	109,486	1,279	106,718	233	7,153
FRAMINGHAM.....	2,944	22,814	6,312	9,916	2,706	2,791
GARDNER.....	945	10,528	1,584	2,497		744
GLOUCESTER.....	7,170	12,005	295	70	5,381	1,882
GREENFIELD.....	2,617	5,260	512	8,756	142	16,065
HAVERHILL.....	7,217	41,730	3,601	22,647	6	11,491
HOLYOKE.....	12,207	251,018	2,976		20,590	6,488
LAWRENCE.....	9,247	339,701	3,403	607,046	133	5,665
LEOMINSTER.....	3,657	27,636	409	4,875	10	751
LOWELL.....	6,292	255,981	5,433	18,685	21,663	16,863
LYNN.....	52,480	36,750	4,017	259,912	9,439	96,645
MALDEN.....	6,410	51,762	534	57,430	1	13,773
MARLBOROUGH.....	783	5,655	205			3,590
MEDFORD.....	988	4,864	126	1,922	162	986
MELROSE.....	3,391	4,974	643			510
METHUEN.....	103	11,637	136	461	9	
MILFORD.....	368	9,233	108	14	2	305
NATICK.....	396	6,533	110	560	44	1,178
NEW BEDFORD.....	24,432	349,435	738	48,392	3,472	29,174
NEWBURYPORT.....	1,833	13,637	1,005	147	4	9,483
NEWTON.....	1,554	16,876	1,630	1,023	169	1,824
NORTH ADAMS.....	33,726	60,312	125	9,715		2,789
NORTHAMPTON.....	2,875	31,607	275	4,732	47	1,481
NORTHBRIDGE.....		24,422	2,600	3,274	41	
NORWOOD.....	344	28,522	1,655	4,121	178	695
PEABODY.....	33,740	99,139	865	74	765	390
PITTSFIELD.....	8,190	95,771	2,789	15,824	57	44,355
PLYMOUTH.....	319	16,543	17,921		50	44
QUINCY.....	831	50,878	6,001	38,110	117	5,501
REVERE.....	255	6,585	201	300		440
SALEM.....	3,577	33,153	724	16,582	20	10,694
SAUGUS.....	15	929	38			
SOMERVILLE.....	57,065	22,651	4,702	15,026	13	6,143
SOUTHBRIDGE.....	625	35,724		3,414	809	9,092
SPRINGFIELD.....	28,795	116,528	3,179	102,670	800	40,473
TAUNTON.....	7,443	98,045	5,924	30,599	237	12,421
WAKEFIELD.....	787	9,698	342	1,048		300
WALTHAM.....	6,145	33,655	1,174	7,839	988	14,189
WATERTOWN.....	2,198	39,265	1,720	580		384
WEBSTER.....	2,550	42,004		6,599	120	340
WESTFIELD.....	2,416	21,621	6,041	4,145	777	1,460
WEST SPRINGFIELD.....	9,289	28,592	46	8,954	9	
WEYMOUTH.....	1,641	7,372			2	681
WINCHESTER.....	7,581	5,275	521			1,824
WINTHROP.....	143	5	69		180	433
WOBBURN.....	4,485	84,354	1,177	14,077	54	259
WORCESTER.....	45,625	356,087	11,302	396,346	2,091	211,094



## SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear on the general schedule. Data for 11 of these industries in Massachusetts are here presented.

**Textiles (Table 19).**—This table shows the total value of products relating to the manufacture of textiles in Massachusetts and the comparative importance of the different branches as measured by value of products for 1919, 1914, and 1909. Considered as a whole, this state is the most prominent textile manufacturing center in the United States, and in 1919 ranked first with 21.6 per cent of the total value of the several classes of textiles produced in all states. In 1919 the combined textile industry was the leading industry in Massachusetts, contributing 27.9 per cent to the total value of products for all industries in the state.

The proportions of the textile industry in this state have expanded in many directions until in 1919 the various kinds of textile industries combined, with 587 establishments, gave employment to an average of 209,489 wage earners; the value of their products amounted to \$1,120,543,711 and the value added by manufacture to \$438,098,778. In addition to leading in 1919 in the production of textiles in the aggregate, the state ranked first in 8 of the 17 distinctive branches, namely, cotton goods, worsted goods, woolen goods, cordage and twine, jute goods, oilcloth, enameled, wool shoddy, and linen goods; second in felt goods, and hats, wool-felt; and third in knit goods, carpets and rugs, other than rag, and cotton small wares.

The principal branches of the textile industry for the state are shown in detail in Tables 20, 21, 22, and 23.

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

INDUSTRY.	VALUE OF PRODUCTS.		
	1919	1914	1909
Total.....	\$1,120,543,711	\$893,463,952	\$388,114,514
Cotton goods, including cotton small wares.....	604,937,749	197,322,111	186,462,313
Wool manufactures <sup>1</sup> .....	366,506,496	141,329,858	153,477,015
Woolen, worsted, and felt goods.....	352,912,506	130,348,514	140,665,034
Carpets and rugs, other than rag.....	13,593,990	10,981,344	12,811,981
Knit goods.....	52,424,235	17,419,077	14,736,025
Silk goods, including throwsters.....	34,193,951	10,676,681	8,942,246
Cordage and twine, and linen goods.....	33,263,723	23,280,246	15,979,115
Other textile industries <sup>2</sup> .....	29,217,557	3,435,979	8,517,800

<sup>1</sup> Exclusive of 2 establishments, "oilcloth, enameled," to avoid disclosure of individual operations.

<sup>2</sup> Wool-felt hats included with "other textile industries" to avoid disclosure of individual operations.

<sup>3</sup> Includes "jute goods," to avoid disclosure of individual operations.

<sup>4</sup> Includes "hats, fur-felt"; "hats, wool-felt"; and "wool shoddy" for all years; "jute goods" for 1919; and "oilcloth, enameled," for 1919 and 1909.

**Cotton goods, including cotton small wares (Table 20).**—This table shows the quantity and cost of the

principal materials used and the quantity and value of the chief products for the manufacture of cotton goods, including cotton small wares, for the census years 1919, 1914, and 1909.

Massachusetts, from an early period in the history of the cotton mill, has been the leading state in the consumption of raw cotton. Among the different kinds of materials used in this industry in the state during 1919, raw cotton was of first importance. In 1919 this raw material formed over one-half of the total cost of all materials used in the cotton industry in the state, and showed an increase of 6 per cent over the quantity used in 1914. The mills in the state usually consume about one-half of the total foreign cotton used in the United States. This special cotton, which is mostly Egyptian, is used chiefly in the manufacture of yarn for sale, tire fabrics, and sewing thread, and to a less extent in the manufacture of such fabrics as organdies, lawns, nainsooks, and shirtings. In 1919 Massachusetts was the principal cotton-yarn market of the United States and this material was the second item of cost in the list of component materials used in the manufacture of cotton goods in the state; while silk, in the form of raw silk and silk yarns, chiefly used for decorative purposes in cotton fabrics, was third.

Among the industries in Massachusetts at the census of 1919, cotton goods ranked first in value of products. There are many other large industries within the state, and, as a result, the value of products for this industry represented only 15.1 per cent of the total value of products for all industries. Massachusetts also ranked first among the states in the value of cotton goods, with 27.9 per cent of the total in the United States, or nearly double that of the second largest cotton manufacturing state. Woven goods was the chief outstanding product, with 64.5 per cent of the total value of products for the industry in the state, and 26.2 per cent of the total cotton woven goods in the United States. Yarn, manufactured for sale, was second in importance, with 24.1 per cent of the total value of cotton goods in the state, and 32 per cent of the total for cotton yarn, manufactured for sale, in the United States. The following will enumerate some of the different kinds of woven goods for which the state held first rank in the United States. They are arranged in their order of importance according to the value within the state, followed by the percentage that each bears to the total value of the respective product for the United States: Tire duck and other tire fabrics, 34.7 per cent; lawns, nainsooks, cambrics, and similar muslins, 55.1 per cent; shirtings, 36.9 per cent; gingham, 32.2 per cent; twills, sateens, etc., 24.9 per cent; cotton blankets, 44.8 per cent; and tobacco, cheese, butter, bunting, and bandage cloths, 82.6 per cent.



## MANUFACTURES—MASSACHUSETTS.

TABLE 20.—COTTON GOODS, INCLUDING COTTON SMALL WARES:  
1919, 1914, AND 1909.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$364,920,724	\$119,834,334	\$105,150,704
Cotton:			
Pounds.....	662,726,150	624,727,544	622,368,027
Cost.....	\$244,372,261	\$89,326,563	\$77,738,315
Domestic—			
Pounds.....	599,333,702	578,617,532	578,315,382
Cost.....	\$210,935,390	\$80,309,154	\$70,495,382
Foreign—			
Pounds.....	63,392,448	48,110,012	44,052,645
Cost.....	\$33,438,871	\$9,017,409	\$7,242,933
Cotton waste purchased:			
Pounds.....	36,868,630	17,886,618	20,024,977
Cost.....	\$3,707,323	\$860,435	\$1,100,785
Raw silk:			
Pounds.....	394,846	616,943	( <sup>1</sup> )
Cost.....	\$2,146,732	\$1,774,258	( <sup>1</sup> )
Yarns purchased:			
Pounds.....	65,518,728	31,903,053	29,079,341
Cost.....	\$60,476,653	\$10,987,060	\$12,405,031
Cotton—			
Pounds.....	64,214,703	31,117,952	27,175,076
Cost.....	\$53,860,141	\$9,284,324	\$5,279,665
Silk—			
Pounds.....	902,643	( <sup>1</sup> )	872,303
Cost.....	\$4,773,607	( <sup>1</sup> )	\$2,854,181
Spun silk—			
Pounds.....	138,186	445,732	187,691
Cost.....	\$670,911	\$1,542,064	\$802,703
All other—			
Pounds.....	263,196	339,969	844,271
Cost.....	\$1,171,994	\$160,672	\$468,422
Starch, cost.....	\$1,343,057	\$523,338	\$471,045
Chemicals and dyestuffs, cost.....	\$3,322,344	\$1,601,767	\$1,609,908
Fuel and rent of power, cost.....	\$11,721,543	\$4,984,427	\$4,041,092
All other materials, cost.....	\$37,830,811	\$9,776,486	\$7,790,618
<b>PRODUCTS.</b>			
Total value.....	\$604,937,749	\$197,322,111	\$186,462,313
Woven goods (over 12 inches in width):			
Pounds.....	392,314,466	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	1,705,948,678	2,066,981,948	1,989,678,059
Value.....	\$389,911,004	\$140,814,418	\$138,626,795
Sheetings—			
Pounds.....	19,590,666		
Square yards.....	81,367,563		
Value.....	\$15,488,544		
Print cloth—			
Pounds.....	55,453,265		
Square yards.....	373,938,032		
Value.....	\$41,574,384		
Tobacco, cheese, butter, bunting, and bandage cloths—			
Pounds.....	18,382,166	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	202,401,015	1,385,708,338	1,230,879,320
Value.....	\$14,016,944	\$68,167,429	\$63,028,168
Lawns, nainsooks, cambrics, and similar muslins—			
Pounds.....	29,241,009		
Square yards.....	243,580,824		
Value.....	\$43,709,594		
Shirtings—			
Pounds.....	22,040,735		
Square yards.....	120,927,504		
Value.....	\$30,745,775		
Ginghams—			
Pounds.....	22,588,081	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	102,297,902	129,379,233	139,552,491
Value.....	\$27,409,269	\$10,157,707	\$10,753,018
Drills—			
Pounds.....	9,532,041	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	30,513,477	12,425,634	17,088,244
Value.....	\$6,670,675	\$1,690,223	\$1,998,819
Twills, satens, etc.—			
Pounds.....	31,270,208	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	116,915,845	129,409,523	159,658,540
Value.....	\$28,199,482	\$11,192,661	\$14,889,807
Ticks and denims—			
Pounds.....	15,865,269	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	31,588,216	35,128,181	58,716,976
Value.....	\$10,479,031	\$3,941,760	\$6,897,895
Canton flannel, flannelettes, and blanketing—			
Pounds.....	22,754,967	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	78,040,678	75,155,157	123,982,755
Value.....	\$17,418,179	\$7,870,079	\$9,470,477
Cotton blankets—			
Pounds.....	17,407,849	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	46,470,714	( <sup>2</sup> )	( <sup>2</sup> )
Value.....	\$14,615,019	( <sup>2</sup> )	( <sup>2</sup> )
Tire fabrics (other than duck)—			
Pounds.....	14,567,668	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	18,647,503	( <sup>2</sup> )	( <sup>2</sup> )
Value.....	\$15,261,266	( <sup>2</sup> )	( <sup>2</sup> )
Tire duck—			
Pounds.....	42,294,670	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	39,639,018	( <sup>2</sup> )	( <sup>2</sup> )
Value.....	\$45,722,608	( <sup>2</sup> )	( <sup>2</sup> )
Ounce duck (except tire)—			
Pounds.....	4,375,125	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	8,232,194	35,818,899	29,169,461
Value.....	\$3,848,918	\$10,884,436	\$5,938,828
Numbered duck (except tire)—			
Pounds.....	2,086,468	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	1,072,836	( <sup>2</sup> )	( <sup>2</sup> )
Value.....	\$1,415,806	( <sup>2</sup> )	( <sup>2</sup> )

TABLE 20.—COTTON GOODS, INCLUDING COTTON SMALL WARES:  
1919, 1914, AND 1909—Continued.

	1919	1914	1909
<b>PRODUCTS—continued.</b>			
Woven goods—Continued.			
Velvets, corduroys, plushes, etc.—			
Pounds.....	7,719,646	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	12,050,895	8,010,211	6,109,238
Value.....	\$9,240,210	\$2,054,181	\$1,707,507
Toweling and terry weaves—			
Pounds.....	1,061,354	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	2,697,007	4,270,318	4,155,909
Value.....	\$857,289	\$487,237	\$413,532
Cloth composed of cotton and silk or other vegetable fiber and silk (except silk-striped shirtings)—			
Pounds.....	2,625,171	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	21,143,718	( <sup>2</sup> )	( <sup>2</sup> )
Value.....	\$8,192,727	( <sup>2</sup> )	( <sup>2</sup> )
Other woven goods (over 12 inches in width)—			
Pounds.....	53,497,208	( <sup>2</sup> )	( <sup>2</sup> )
Square yards.....	232,013,777	251,667,454	220,465,095
Value.....	\$58,045,275	\$24,878,705	\$23,478,744
Thread—			
Pounds.....	7,226,906	7,713,857	6,563,216
Value.....	\$14,819,825	\$5,810,536	\$5,285,750
Yarns, for sale:			
Pounds.....	154,715,201	112,623,022	108,930,860
Value.....	\$145,888,149	\$38,784,313	\$31,725,674
Cotton waste, for sale:			
Pounds.....	133,500,403	126,634,730	116,907,265
Value.....	\$18,216,641	\$6,793,957	\$4,050,374
Cotton small wares, value.....	\$9,620,273	\$1,272,132	\$384,444
All other products, value.....	\$25,223,264	\$4,346,755	\$5,289,276
Amount received for contract work.....	\$1,228,593	( <sup>2</sup> )	( <sup>2</sup> )

<sup>1</sup> Not reported separately.<sup>2</sup> Not reported in 1914 and 1909.

Wool manufactures (Table 21).—The following table shows in detail the quantity and cost of materials used in wool manufactures, and the quantity and value of the principal products in Massachusetts for 1919, 1914, and 1909.

Wool manufactures as presented in Table 21 includes five branches or types of textile manufacturing, the titles of which are descriptive of their product. These branches and the value of products for 1919 are as follows: Worsted goods, \$237,443,077; woollen goods, \$105,183,068; carpets and rugs, other than rag, \$13,593,990; felt goods, \$10,286,361, and wool-felt hats, which is included in "all other products" to avoid disclosure of individual operations. In 1919 woollen goods and worsted goods combined formed 93.5 per cent of the total value of wool manufactures in the state.

Massachusetts has ranked first in the manufacture of woollen and worsted goods in the United States since the first Federal census of manufactures. The value of woollen and worsted goods produced in this state during 1919 formed 32.2 per cent of the total for the United States, or nearly double that of the second state in rank. During a considerable part of the census year 1919, the operation of the wool manufactures industry for the United States was below normal, and according to the monthly reports of "Active and idle wool machinery," received by the Bureau of the Census, the per cent of idle machinery averaged for the year in sets of woollen cards, 18.3 per cent; combs, 18.5 per cent; woollen spindles, 18.8 per cent; worsted spindles, 23.2 per cent; looms wider than 50-inch reed space, 31.1 per cent; looms under 50-inch reed space, 29.1



per cent; and carpet and rug looms, 46 per cent. Cards, combs, and spindles used in connection with the manufacture of knit goods were included in the "Active and idle wool machinery" reports, but with the comparatively small amount of such machinery in the knit-goods industry they would have little effect on the per cents as shown above.

Wool, forming 47.5 per cent of the total cost of materials, and yarns, forming 21.4 per cent, were the two chief materials used in wool manufactures. The cost of worsted yarn formed 67 per cent of the various kinds of yarns used. Fashion makes many demands upon this industry in the designing of its products, and the fluctuations in the different kinds of materials used, as reported from census to census, might be attributed principally to this cause.

TABLE 21.—WOOL MANUFACTURES: 1919, 1914, AND 1909.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$227,371,147	\$89,745,703	\$94,797,715
<b>Wool:</b>			
In condition purchased—			
Pounds.....	163,264,869	165,039,667	167,963,961
Cost.....	\$108,043,388	\$40,325,690	\$47,193,010
Foreign—			
Pounds.....	88,690,043	79,690,137	71,725,674
Cost.....	\$57,691,453	\$20,302,783	\$21,528,685
Domestic—			
Pounds.....	74,574,826	85,349,530	96,238,287
Cost.....	\$50,351,935	\$20,022,913	\$25,664,325
Equivalent in scoured condition, pounds.....	100,078,489	98,914,078	108,243,103
Cotton—			
Pounds.....	5,084,568	10,814,793	10,143,678
Cost.....	\$1,833,328	\$1,293,958	\$1,237,820
Domestic—			
Pounds.....	3,952,522	8,930,581	9,253,389
Cost.....	\$1,357,408	\$900,830	\$1,089,397
Foreign—			
Pounds.....	1,132,046	1,884,212	890,289
Cost.....	\$525,920	\$393,122	\$151,423
Animal hair—			
Pounds.....	10,843,903	5,399,163	3,876,452
Cost.....	\$4,335,734	\$1,710,701	\$1,100,038
Recovered wool fiber—			
Pounds.....	11,120,116	5,853,328	3,687,530
Cost.....	\$5,950,880	\$692,537	\$547,990
Wool and other noils and wool waste—			
Pounds.....	15,582,931	10,959,893	9,996,811
Cost.....	\$10,806,415	\$2,657,705	\$2,692,110
Tops, purchased—			
Pounds.....	6,766,376	9,110,710	5,039,116
Cost.....	\$11,430,360	\$4,974,310	\$3,461,319
Yarns, purchased—			
Pounds.....	36,445,723	44,334,079	46,077,736
Cost.....	\$48,567,935	\$22,026,410	\$24,461,745
Woolen—			
Pounds.....	3,315,996	3,986,066	1,534,135
Cost.....	\$4,102,542	\$1,085,094	\$268,683
Worsted—			
Pounds.....	14,735,188	19,453,214	21,470,242
Cost.....	\$32,528,849	\$1,324,771	\$18,923,644
Merino (cotton-mixed)—			
Pounds.....	26,203	190,469	33,115
Cost.....	\$102,940	\$50,949	\$6,623
Cotton—			
Pounds.....	15,024,251	14,764,361	15,425,293
Cost.....	\$9,892,865	\$4,222,281	\$4,212,147
Silk—			
Pounds.....	53,250	112,345	30,529
Cost.....	\$482,520	\$386,029	\$126,330
Spun silk—			
Pounds.....	81,114	88,871	74,332
Cost.....	\$589,641	\$271,478	\$240,174
Linen—			
Pounds.....	210,134	944,122	1,195,599
Cost.....	\$83,596	\$183,500	\$215,556
Jute, ramie, and other vegetable fiber—			
Pounds.....	2,939,877	4,789,631	6,314,491
Cost.....	\$654,173	\$502,408	\$468,588
All other yarns—			
Pounds.....	59,705	( <sup>1</sup> )	( <sup>1</sup> )
Cost.....	\$130,809	( <sup>1</sup> )	( <sup>1</sup> )
Chemicals and dyestuffs, cost.....	\$11,171,643	\$3,931,653	\$3,466,569
Fuel and rent of power, cost.....	\$6,490,026	\$3,213,639	\$2,583,808
All other materials, cost.....	\$20,652,438	\$5,944,094	\$8,053,306

TABLE 21.—WOOL MANUFACTURES: 1919, 1914, AND 1909—Con.

	1919	1914	1909
<b>PRODUCTS.</b>			
Total value.....	\$368,506,406	\$141,329,858	\$153,477,015
<b>Woven goods:</b>			
Pounds.....	114,890,871	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	217,362,219	220,748,263	223,761,500
Value.....	\$258,491,332	\$97,810,697	\$107,064,598
<b>All-wool—</b>			
Pounds.....	69,022,613	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	118,667,333	114,830,218	109,221,437
Value.....	\$189,234,850	\$72,163,330	\$78,873,571
<b>Woolen—</b>			
Suits—			
Pounds.....	23,812,153	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	29,797,951	14,762,516	
Value.....	\$46,661,766	\$9,854,035	
Dress goods—			
Pounds.....	1,838,954	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	3,801,777	7,027,040	29,366,745
Value.....	\$5,396,603	\$3,509,627	\$19,025,840
Overcoating, cloakings, etc.—			
Pounds.....	10,070,935	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	11,280,553	5,705,283	
Value.....	\$19,647,161	\$5,077,361	
<b>Worsted—</b>			
Suits—			
Pounds.....	22,623,950	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	46,608,565	58,385,705	
Value.....	\$79,391,770	\$41,233,773	
Dress goods—			
Pounds.....	8,786,175	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	24,810,985		78,424,778
Value.....	\$34,226,483	( <sup>1</sup> )	\$59,079,587
Overcoatings, cloakings, etc.—			
Pounds.....	174,900	28,000,855	
Square yards.....	159,000	\$11,938,917	
Value.....	\$611,154		
<b>All other woolen or worsted—</b>			
Pounds.....	1,715,541	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	2,208,497	968,129	1,429,914
Value.....	\$3,299,913	\$549,623	\$768,144
<b>Wool-and-cotton-mixed—</b>			
Pounds.....	10,287,540	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	14,112,534	18,264,930	10,236,836
Value.....	\$11,591,031	\$6,143,131	\$3,332,600
<b>Suits—</b>			
Pounds.....	5,462,346		
Square yards.....	7,604,963		
Value.....	\$6,458,555		
<b>Dress goods—</b>			
Pounds.....	332,768	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	377,513	11,962,150	6,465,030
Value.....	\$262,663	\$4,319,854	\$2,536,174
<b>Overcoatings, cloakings, etc.—</b>			
Pounds.....	1,230,533		
Square yards.....	1,165,528		
Value.....	\$1,286,359		
<b>All other—</b>			
Pounds.....	3,261,907	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	4,984,530	6,302,786	3,831,806
Value.....	\$3,553,454	\$1,823,277	\$704,516
<b>Cotton-warp—</b>			
Pounds.....	35,580,709	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	84,582,352	87,663,109	104,303,227
Value.....	\$57,665,451	\$10,504,230	\$24,858,337
<b>Woolen-filling—</b>			
Suits—			
Pounds.....	5,916,574	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	12,020,303	14,038,511	
Value.....	\$10,169,764	\$3,007,447	
Dress goods—			
Pounds.....	267,083		
Square yards.....	762,496		22,610,651
Value.....	\$775,972		\$5,375,123
Overcoatings, cloakings, etc.—			
Pounds.....	2,895,144	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	3,335,240	8,779,741	
Value.....	\$3,111,321	\$2,182,468	
<b>Worsted-filling—</b>			
Suits—			
Pounds.....	5,954,933	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	13,402,607	3,052,869	
Value.....	\$12,890,495	\$1,135,320	
Dress goods—			
Pounds.....	5,281,001	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	20,598,789	23,022,664	58,750,120
Value.....	\$11,871,294	\$4,093,123	\$13,373,680
<b>Woolen-filling and worsted-filling—</b>			
Domest flannels and shirts—			
Pounds.....	3,964,009	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	6,720,072	2,882,803	794,799
Value.....	\$3,853,342	\$459,688	\$136,605
Blankets—			
Pounds.....	1,218,293	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	1,941,976	2,837,664	1,547,934
Value.....	\$1,869,278	\$559,522	\$250,530
Satinets and linseys—			
Pounds.....	5,147,623	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	3,989,170	6,857,360	4,120,737
Value.....	\$2,904,031	\$1,171,708	\$606,202
<b>All other—</b>			
Pounds.....	4,935,174	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	21,761,690	26,181,997	16,478,986
Value.....	\$10,735,954	\$6,894,754	\$5,110,197

<sup>1</sup> Not reported in 1914 and 1909.



TABLE 21.—WOOL MANUFACTURES: 1919, 1914, AND 1909—CON.

	1919	1914	1909
Carpets and rugs:			
Pounds.....	12,952,008	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	6,487,324	9,479,715	10,236,887
Value.....	\$13,128,841	\$10,482,775	\$12,180,257
Carpets—			
Pounds.....	2,429,313	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	818,953	5,660,067	7,496,772
Value.....	\$2,664,924	\$8,999,573	\$10,358,191
Rugs—			
Pounds.....	10,522,695	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	5,668,371	3,819,648	2,740,115
Value.....	\$10,473,917	\$1,483,202	\$1,802,066
Sewed strips—			
Pounds.....	3,023,524		
Square yards.....	972,913		
Value.....	\$3,056,596		
Woven whole—		( <sup>2</sup> )	( <sup>2</sup> )
Pounds.....	7,499,171		
Square yards.....	4,695,458		
Value.....	\$7,417,321		
Felt goods:			
Cloth, gunwad felts, etc.—			
Pounds.....	4,697,482	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	5,475,043	3,375,528	2,082,534
Value.....	\$3,046,698	\$842,782	\$480,838
Boot and shoe linings—			
Pounds.....	1,055,312	( <sup>1</sup> )	( <sup>1</sup> )
Square yards.....	1,107,314	2,149,909	1,444,978
Value.....	\$1,047,225	\$1,024,256	\$409,915
All other—			
Pounds.....	4,422,184	1,878,963	( <sup>2</sup> )
Value.....	\$6,020,982	\$1,090,175	\$1,500,746
Yarns:			
Woolen—			
Pounds.....	3,548,730	1,936,411	1,161,773
Value.....	\$5,145,210	\$662,383	\$455,448
Merino—			
Pounds.....	1,664,758	1,958,912	1,283,261
Value.....	\$3,613,801	\$1,511,984	\$1,043,693
Worsted—			
Pounds.....	20,477,164		
Value.....	\$44,051,595		
Worsted tops and slubbing:			
Pounds.....	7,245,830	29,639,383	26,591,701
Value.....	\$9,360,705	\$20,429,600	\$22,438,097
Nolls:			
Pounds.....	10,149,864	10,955,313	11,250,153
Value.....	\$7,202,421	\$3,133,490	\$3,655,975
Waste, for sale:			
Pounds.....	13,504,681	10,997,975	8,387,654
Value.....	\$2,795,156	\$981,282	\$774,155
All other products, value.....	\$5,254,881	\$1,931,438	\$2,044,000
Contract work, value.....	\$7,347,649	\$1,419,930	\$1,448,393

<sup>1</sup> Not reported in 1914 and 1909.<sup>2</sup> Not reported separately.<sup>3</sup> Figures not available.

The products reported for this industry were largely woven fabrics to be used in the manufacture of clothing; the value of such fabrics forming 70.5 per cent of the total for this industry in Massachusetts for 1919. The main divisions of woven fabrics show that in the value of products, all-wool goods was of chief importance; cotton-warp goods, second; and wool and cotton-mixed goods, third; forming 73.2 per cent, 22.3 per cent, and 4.5 per cent, respectively, of the total for this group in 1919.

The carpet and rug branch of the wool manufactures industry has had many interruptions, and has undergone many changes since the census of 1914. Of the total value of the products of the carpet and rug industry in the state in 1909 and 1914, carpets formed 85.2 per cent and 85.9 per cent, respectively. In 1919, however, the reverse condition existed, the value of rugs forming 79.8 per cent of the total for the industry. Large quantities of yarn are usually produced for sale, and in 1919 the value of such products represented 14.4 per cent of the total value of products for this industry in the state.

Knit goods (Table 22).—Cotton is the principal raw material used in the manufacture of knit goods in Massachusetts. According to cost, purchased yarns consist chiefly of cotton, worsted, and artificial silk. In addition to the manufacture of a considerable quantity of cotton yarn for consumption within establishments where it is made, a large amount is purchased.

Of the total value of the knit goods industry in the state in 1919, hosiery contributed 39.1 per cent. Underwear, exclusive of tights, was second, forming 36.4 per cent of the total value. In keeping with the general trend of the industry in the United States, the production of separate shirts and drawers has diminished with the increase in the production of union suits.

TABLE 22.—KNIT GOODS: 1919, 1914, AND 1909.

	1919	1914	1909
MATERIALS.			
Total cost.....	\$31,172,563	\$9,266,671	\$6,971,606
Cotton:			
Pounds.....	16,421,615	13,914,900	16,459,053
Cost.....	\$5,129,928	\$1,926,119	\$1,912,046
Domestic—			
Pounds.....	16,290,530	13,598,664	16,034,818
Cost.....	\$5,063,545	\$1,873,252	\$1,843,846
Foreign—			
Pounds.....	131,085	316,236	424,235
Cost.....	\$66,383	\$52,867	\$68,200
Cotton waste purchased:			
Pounds.....	1,054,916	452,652	( <sup>1</sup> )
Cost.....	\$298,638	\$48,160	( <sup>1</sup> )
Wool (in condition purchased):			
Pounds.....	534,068	318,877	440,374
Cost.....	\$599,618	\$154,499	\$195,577
Recovered wool fiber:			
Pounds.....	791,529	226,555	269,443
Cost.....	\$318,610	\$25,568	\$34,382
Wool waste and nolls:			
Pounds.....	648,790	442,225	271,388
Cost.....	\$584,635	\$141,394	\$107,839
Yarns, purchased:			
Pounds.....	13,181,417	9,698,139	8,295,153
Cost.....	\$18,973,385	\$4,894,894	\$3,359,779
Cotton—			
Pounds.....	9,952,074	7,325,269	6,963,775
Cost.....	\$8,931,178	\$2,442,240	\$1,771,206
Woolen—			
Pounds.....	374,808	123,022	113,868
Cost.....	\$694,488	\$75,254	\$87,798
Worsted—			
Pounds.....	1,211,375	1,357,338	619,140
Cost.....	\$3,036,087	\$1,084,700	\$638,014
Merino—			
Pounds.....	764,842	558,104	466,747
Cost.....	\$1,525,978	\$294,263	\$475,760
Silk and spun silk—			
Pounds.....	189,907	180,060	124,715
Cost.....	\$1,593,053	\$718,503	\$369,777
Artificial silk—			
Pounds.....	683,411	129,254	( <sup>1</sup> )
Cost.....	\$3,182,601	\$251,447	( <sup>1</sup> )
All other—			
Pounds.....	5,000	25,092	7,408
Cost.....	\$10,000	\$28,487	\$17,215
Sewing thread, cotton:			
Pounds.....	168,948	( <sup>1</sup> )	( <sup>1</sup> )
Cost.....	\$257,322	( <sup>1</sup> )	( <sup>1</sup> )
Sewing thread, silk:			
Pounds.....	3,392	( <sup>1</sup> )	( <sup>1</sup> )
Cost.....	\$32,766	( <sup>1</sup> )	( <sup>1</sup> )
Buttons, pearl:			
Gross.....	479,523	( <sup>1</sup> )	( <sup>1</sup> )
Cost.....	\$212,361	( <sup>1</sup> )	( <sup>1</sup> )
Buttons, other than pearl:			
Gross.....	28,673	( <sup>1</sup> )	( <sup>1</sup> )
Cost.....	\$40,823	( <sup>1</sup> )	( <sup>1</sup> )
Chemicals and dyestuffs, cost.....	\$613,925	\$221,397	\$242,632
Fuel and rent of power, cost.....	\$441,785	\$234,091	\$174,846
All other materials, cost.....	\$3,673,777	\$1,620,549	\$944,505
Yarns made in mill for use therein:			
Cotton, pounds.....	7,689,061	8,677,894	13,467,586
Woolen, pounds.....	792,028	424,474	254,000
Worsted, pounds.....	19,000		128,000
Merino, pounds.....	1,409,459	743,670	600,616

<sup>1</sup> Not reported separately.



TABLE 22.—KNIT GOODS: 1919, 1914, AND 1909—Continued.

PRODUCTS.	1919	1914	1909
Total value.....	\$52,424,235	\$17,419,077	\$14,736,025
<b>Hosiery:</b>			
Dozen pairs.....	5,890,020	4,528,469	4,506,960
Value.....	\$20,474,521	\$5,695,684	\$4,780,351
Cotton—			
Dozen pairs.....	1,458,128	3,791,779	4,280,266
Value.....	\$3,320,380	\$3,540,884	\$3,734,618
Silk and silk-mixed—			
Dozen pairs.....	2,649,134	513,401	63,762
Value.....	\$10,854,323	\$1,845,246	\$765,144
All other—			
Dozen pairs.....	1,784,758	223,289	162,932
Value.....	\$6,299,818	\$309,554	\$280,589
Shirts and drawers:			
Dozens.....	1,343,023	1,354,538	1,667,482
Value.....	\$10,115,392	\$5,034,264	\$6,080,517
Cotton—			
Dozens.....	926,583	1,142,782	1,415,227
Value.....	\$5,610,905	\$3,408,500	\$4,257,591
Merino—			
Dozens.....	287,355	145,781	182,903
Value.....	\$3,340,349	\$957,713	\$1,206,785
Silk and silk-mixed—			
Dozens.....	121,585	32,314	33,998
Value.....	\$1,051,638	\$303,781	\$208,184
All other—			
Dozens.....	7,500	33,661	35,354
Value.....	\$112,500	\$364,350	\$407,957
Union suits:			
Dozens.....	525,187	408,445	183,175
Value.....	\$8,980,931	\$3,279,212	\$2,011,791
Cotton—			
Dozens.....	262,626	238,256	100,024
Value.....	\$3,300,839	\$1,695,784	\$861,737
Merino—			
Dozens.....	73,018	82,990	74,643
Value.....	\$1,487,359	\$851,778	\$968,915
Silk and silk-mixed—			
Dozens.....	189,543	21,972	8,108
Value.....	\$4,192,733	\$383,956	\$173,089
All other—			
Dozens.....		65,227	400
Value.....		\$347,694	\$8,000
Tights:			
Dozens.....	25,934	( <sup>1</sup> )	( <sup>1</sup> )
Value.....	\$260,188	( <sup>1</sup> )	( <sup>1</sup> )
Bathing suits:			
Dozens.....	42,079	6,328	( <sup>1</sup> )
Value.....	\$907,620	\$69,432	( <sup>1</sup> )
Gloves and mittens:			
Dozen pairs.....	23,915	24,932	27,829
Value.....	\$62,614	\$46,764	\$51,156
Headwear:			
Dozens.....	3,734	( <sup>1</sup> )	( <sup>1</sup> )
Value.....	\$17,690	( <sup>1</sup> )	( <sup>1</sup> )
Cardigan jackets, sweaters, etc.:			
Dozens.....	108,719	94,857	40,544
Value.....	\$2,992,021	\$1,394,283	\$718,562
Cotton yarn, made for sale:			
Pounds.....	2,333,620	3,328,625	1,451,711
Value.....	\$1,321,141	\$744,294	\$272,653
All other products, value.....	\$7,292,117	\$1,155,134	\$820,995

<sup>1</sup> Not reported separately.

A general increase in the volume of production is shown, and the most noticeable change from 1914 to 1919 is the increase in the quantity of "silk and silk mixed," and "other hosiery"—largely wool and merino—with the decrease in cotton hosiery manufactured.

Silk manufactures (Table 23).—There were 21 establishments engaged in the silk-manufacturing industry in Massachusetts in 1919.

Table 23 shows the quantity and cost of the principal materials used and the quantity and value of the different products manufactured during 1919, 1914, and 1909.

Massachusetts ranked fifth, in value of products, in the manufacture of silk textiles in the United States during the year 1919. Raw silk, silk waste, and mercerized cotton yarn were among the most important

materials used in 1919 and formed 47.9 per cent, 29 per cent, and 5.7 per cent, respectively, of the total cost of materials. Small quantities of silk yarns were purchased, but the weaving mills did the larger part of their own throwing.

TABLE 23.—SILK MANUFACTURES: 1919, 1914, AND 1909.

MATERIALS.	1919	1914	1909
Total cost.....	\$19,243,483	\$5,961,137	\$5,429,851
<b>Silk:</b>			
Raw—			
Pounds.....	1,109,948	1,121,697	920,308
Cost.....	\$9,219,540	\$4,141,624	\$3,753,207
Spun—			
Pounds.....	33,035	37,458	( <sup>1</sup> )
Cost.....	\$192,498	\$104,375	( <sup>1</sup> )
Artificial—			
Pounds.....	64,183	27,600	( <sup>1</sup> )
Cost.....	\$335,551	\$59,839	( <sup>1</sup> )
Organzine, tram, and hard or crepe twist—			
Pounds.....	42,143	15,998	( <sup>1</sup> )
Cost.....	\$404,464	\$87,697	( <sup>1</sup> )
Frisons, pierced cocoons, noils, and other waste—			
Pounds.....	3,727,260	( <sup>2</sup> )	( <sup>2</sup> )
Cost.....	\$5,582,673	( <sup>2</sup> )	( <sup>2</sup> )
Yarns, other than silk:			
Cotton, not mercerized—			
Pounds.....	752,062	1,046,919	1,225,386
Cost.....	\$749,405	\$530,121	\$536,889
Cotton, mercerized—			
Pounds.....	768,018	221,929	158,399
Cost.....	\$1,091,554	\$181,501	\$113,253
All other—			
Pounds.....	170,630	12,803	( <sup>2</sup> )
Cost.....	\$305,784	\$10,333	( <sup>2</sup> )
Fuel and rent of power, cost.....	\$242,762	\$108,593	\$82,862
All other materials, cost.....	\$1,119,252	\$756,554	\$944,640
<b>PRODUCTS.</b>			
Total value.....	\$34,193,951	\$10,676,681	\$8,942,246
<b>Broad silks:</b>			
Yards.....	9,545,064	8,618,424	9,668,788
Value.....	\$17,672,808	\$8,954,245	\$5,898,231
<b>All silk—</b>			
Yards.....	5,699,475	3,135,430	( <sup>1</sup> )
Value.....	\$10,763,763	\$2,905,738	( <sup>1</sup> )
Yarn-dyed—			
Yards.....	4,872,983	( <sup>2</sup> )	.....
Value.....	\$9,309,006	( <sup>2</sup> )	.....
All other—			
Yards.....	826,492	( <sup>2</sup> )	.....
Value.....	\$1,454,757	( <sup>2</sup> )	.....
<b>Mixed goods—</b>			
Yards.....	3,845,589	5,482,994	( <sup>1</sup> )
Value.....	\$6,909,045	\$4,048,507	( <sup>1</sup> )
Fringes, braids, and trimmings, value.....	\$1,188,964	\$196,375	( <sup>1</sup> )
Organzine, tram, and hard or crepe twist:			
Pounds.....	83,630	79,871	14,592
Value.....	\$830,277	\$375,021	\$64,706
<b>Spun silk:</b>			
Pounds.....	1,402,669	( <sup>2</sup> )	( <sup>2</sup> )
Value.....	\$8,630,122	( <sup>2</sup> )	( <sup>2</sup> )
<b>Machine twist, sewing and embroidery silks, fringe and floss silks:</b>			
Pounds.....	232,443	281,429	358,260
Value.....	\$3,328,594	\$2,015,994	\$2,107,319
All other products, value.....	\$2,431,223	\$1,019,793	\$764,934
Amount received for contract work.....	\$101,963	\$115,283	\$107,056

<sup>1</sup> Figures not available.<sup>2</sup> Figures can not be shown separately without disclosing individual operations.

Broad-silk fabrics was the principal product of the industry reported for the last three census periods and formed over one-half of the total value of products at each census. It will be noted that these fabrics were chiefly all silk in 1919 and that silk-mixed goods predominated in 1914. In 1919 a large share of broad silks composed of all silk was yarn dyed. Next to broad silks in 1919, spun-silk yarn was the most important product of the industry, and the combined values of these two types of products formed 76.9 per cent



of the total. No pronounced variation in the industry has taken place during the last 10 years, except that from 1914 to 1919 broad silks made of all silk increased 81.8 per cent in quantity, while broad-silk mixtures decreased 29.9 per cent and, in common with all industries, inflated values prevailed in 1919.

**Machinery used in textile mills (Table 24).**—The different kinds of machines, which have been accepted by textile manufacturers as best indicating the trend of their industry, are shown in detail in Table 24, for several branches of textiles in Massachusetts for 1919, 1914, and 1909.

A considerable portion of the textile machinery of the United States is located in mills in Massachusetts. At the census of 1919 this state contributed to the total about one-third each of the producing cotton spindles, the producing spindles in wool manufactures, looms in cotton mills, looms in wool manufactures, sets of woolen cards, and wool-combing machines. In these types of machines and spindles Massachusetts is surpassed in number by no other state in the Union.

The number of spindles and looms shown within each industry are without consideration for the kind of fiber upon which they were operating. The total number of producing spindles used in the state in 1919 shows an increase of 6.1 per cent over those used in 1914; the knitting machines, an increase of 2.1 per cent; the sets of woolen cards an increase of 16.1 per cent; the number of looms a decrease of 1.1 per cent; and the number of wool-combing machines a decrease of 6.1 per cent.

TABLE 24.—MACHINERY USED IN TEXTILE MILLS: 1919, 1914, AND 1909.

KIND.	Cen- sus year.	Total.	INDUSTRY.				
			Carpets and rugs, other than rag.	Cotton goods, including cotton small wares.	Knit goods.	Silk goods, including throw- sters.	Woolen, worsted, and felt goods.
Producing spindles	1919	13,043,175	52,436	11,217,487	170,266	172,484	1,424,502
	1914	12,288,683	58,07*	10,565,801	158,952	122,156	1,383,700
	1909	10,815,478	53,244	9,377,984	163,248	99,699	1,121,303
Looms.....	1919	1258,439	1,089	226,224	.....	1,403	27,723
	1914	261,219	1,474	228,857	.....	3,279	27,609
	1909	263,929	1,778	234,249	.....	2,717	25,185
Knitting machines	1919	10,424	.....	.....	10,424	.....	.....
	1914	10,209	.....	.....	10,209	.....	.....
	1909	7,741	.....	.....	7,741	.....	.....
Woolen cards (sets). <sup>2</sup>	1919	1,703	33	.....	49	.....	1,621
	1914	1,467	53	.....	28	.....	1,386
	1909	1,519	80	.....	36	.....	1,403
Wool-combing ma- chines.	1919	862	13	.....	.....	.....	849
	1914	918	33	.....	.....	.....	885
	1909	703	46	.....	.....	.....	657

<sup>1</sup> Includes 185 idle looms.

<sup>2</sup> Includes 869 idle knitting machines.

<sup>3</sup> Includes shoddy cards.

The cotton industry in Massachusetts reported 86 per cent of the total number of active producing spindles for the state in 1919, and the woolen, worsted, and felt goods industries, 10.9 per cent. All of the industries show increases in active spindles for the

five-year period with the exception of the carpet and rug industry, which shows a decrease of 9.7 per cent.

**Leather, tanned, curried, and finished (Tables 25 and 26).**—Table 25 shows the quantity and cost of the principal materials used and the quantity and value of the chief products of the leather industry for 1919, 1914, and 1909.

TABLE 25.—LEATHER, TANNED, CURRIED, AND FINISHED: 1919, 1914, AND 1909.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$82,017,255	\$33,194,061	\$28,765,508
Cattle hides:			
Number.....	1,634,538	764,636	1,251,036
Cost.....	\$18,953,933	\$5,205,907	\$6,603,898
Skins:			
Calf and kip—			
Number.....	4,112,790	5,630,003	5,439,236
Cost.....	\$22,021,470	\$11,039,546	\$7,910,409
Goat and kid—			
Number.....	5,739,256	5,137,413	6,290,952
Cost.....	\$10,260,356	\$3,343,748	\$3,935,024
Sheep and lamb—			
Number.....	9,006,655	16,012,063	8,730,684
Cost.....	\$9,237,327	\$7,297,749	\$3,277,743
All other raw stock, cost.....	\$1,574,563	\$428,889	\$129,705
Purchased rough leather used, cost.....	\$4,218,862	\$852,156	\$2,018,080
Fuel and rent of power, cost.....	\$1,934,048	\$615,959	\$607,523
All other materials, cost.....	\$13,811,696	\$4,410,107	\$4,283,121
<b>PRODUCTS.</b>			
Total value.....	\$129,594,062	\$45,265,434	\$40,002,079
Leather, value.....	\$97,654,939	\$37,614,588	\$33,733,326
Cattle side upper (other than patent)—			
Slides.....	1,637,765	989,809	1,509,748
Value.....	\$11,930,255	\$2,810,363	\$4,174,700
Calf and kip skins—			
Number.....	3,933,974	5,549,931	5,457,771
Value.....	\$28,763,801	\$13,276,767	\$10,967,162
Goat and kid skins—			
Number.....	5,948,958	4,493,286	5,837,401
Value.....	\$16,127,854	\$4,267,801	\$4,852,505
Sheep and lamb skins—			
Number.....	7,246,487	16,032,940	8,162,771
Value.....	\$12,389,893	\$9,617,000	\$4,254,219
All other leather, value.....	\$28,447,166	\$7,652,657	\$9,484,740
All other products, value.....	\$10,607,012	\$2,068,790	\$1,469,596
Work on materials for others, value.....	\$21,333,011	\$5,582,056	\$4,766,157

The number of cattle hides treated in 1919, as compared with 1914, shows an increase of 869,902, or 113.8 per cent. The total number of skins treated, however, shows a decrease during this period of 8,820,778, or 31.9 per cent. The falling off was mainly in sheep and lamb skins, which decreased 7,905,408, or 46.7 per cent; there was also a decrease of 1,517,213, or 26.9 per cent, in the number of calf and kip skins. The number of goat and kid skins treated increased by 601,843, or 11.7 per cent. The total cost of hides and skins used in 1919 shows an increase of \$33,591,136, or 124.9 per cent over the cost for 1914, notwithstanding a decrease in the total number. Considering all kinds of hides and skins on a unit cost basis, the increase was from 95 cents in 1914 to \$2.95 in 1919.

The value of products for the industry in the state in 1919 formed 14 per cent of its total for the United States, a larger proportion than for any prior census. From 1914 to 1919 the total value of products increased \$84,329,528, or 186.3 per cent. While each of the four classes of leather shows decided increases



in value during this period, the largest actual increase was in calf and kip skins, \$15,477,034, or 116.6 per cent; but the largest per cent of increase was for goat and kid skins, \$11,870,053, or 278.8 per cent. Most of the skins reported were used in the manufacture of upper leather, although fancy, bookbinders, glove, roller leather, etc., were manufactured to some extent. "All other leather" in Table 25 includes belting, patent, sole, case, bag and strap, finished splits, cabretta skins, etc.

The amount received for work on materials for others, which was 17 per cent greater in 1914 than 1909, was 282.2 per cent greater in 1919 than in 1914. This large increase was due not only to the higher charges for custom work, but also to a larger volume of business done. Of 239 establishments doing custom tanning in the United States, 82 were located in Massachusetts.

Table 26 gives for 1919 the quantity and value for some of the principal finished products of the leather industry. In the preceding Table these products are shown by kinds of skins.

TABLE 26.—QUANTITY AND VALUE OF FINISHED LEATHER: 1919.

KIND.	Quantity.	Value.
Upper leather.....	17,999,231	\$55,931,046
Calf and kip.....skins..	3,714,605	27,232,575
Goat and kid.....skins..	5,705,605	15,342,538
Sheep and lamb.....skins..	9,439,808	10,588,488
Cabretta.....skins..	2,139,213	2,718,045
Patent leather.....		11,320,708
Cattle.....sides..	1,315,293	11,305,132
All other.....		15,576
Fancy leather.....		3,782,012
Sheep and lamb.....skins..	773,991	1,711,560
All other.....		2,070,452
Finished splits.....		2,903,535
Case, bag, strap, roller, glove, bookbinders, and lace leather.....		3,537,819

**Boots and shoes (Tables 27 and 28).**—Table 27 shows, by classes, the number of pairs of footwear manufactured in the state for 1919, 1914, and 1909, and Table 28 shows for 1919 and 1914 this footwear by method of manufacture.

Massachusetts continues to rank first among the states in the manufacture of footwear. The state's proportion of the total quantity produced for the industry in the United States, however, was 35.3 per cent in 1919, as compared with 39.4 per cent in 1914, and 41.4 per cent in 1909. This proportionate decrease was due to large gains made by some of the other states, since there was an actual increase in Massachusetts of 1,768,529 pairs, or 1.5 per cent, for the period 1914–1919. In contrast to this slight gain in quantity, the aggregate value increased by \$241,936,378, or 120.6 per cent, for the same period. The number of women's shoes increased by 12,955,602 pairs, or 40.1 per cent. All other classes, including slippers, show decreases. "All other footwear" includes moc-

casins, sandals, athletic, sporting, and canvas shoes, and footwear not strictly boots and shoes. Work done for others consists of the making of buttonholes in uppers, stitching, crimping, and general contract work.

TABLE 27.—BOOTS AND SHOES, BY CLASSES: 1919, 1914, AND 1909.

CLASS.	1919	1914	1909
Aggregate value.....	\$442,466,236	\$200,529,858	\$187,045,767
Boots and shoes:			
Total number of pairs.....	102,389,856	98,009,176	102,826,648
Total value.....	\$415,360,000	\$180,763,458	
Men's—			
Number of pairs.....	39,610,259	44,750,716	45,155,939
Value.....	\$199,317,054	\$101,334,686	
Boys' and youths—			
Number of pairs.....	5,517,399	8,318,252	9,019,124
Value.....	\$14,504,673	\$11,211,688	
Women's—			
Number of pairs.....	45,251,883	32,295,781	36,778,432
Value.....	\$177,425,687	\$54,955,180	
Misses' and children's—			
Number of pairs.....	12,010,815	12,044,427	11,873,153
Value.....	\$24,113,286	\$13,261,595	
Slippers:			
Total number of pairs.....	5,620,573	11,799,532	10,155,324
Total value.....	\$11,584,870	\$13,795,841	
Men's, boys', and youths'—			
Number of pairs.....	2,364,668	3,061,796	3,369,808
Value.....	\$3,853,277	\$2,935,434	
Women's, misses', and children's—			
Number of pairs.....	3,255,905	8,737,736	6,785,516
Value.....	\$7,731,593	\$10,860,407	
Infants' shoes and slippers:			
Number of pairs.....	2,559,373	3,109,511	3,610,576
Value.....	\$2,890,405	\$1,085,571	
All other footwear:			
Number of pairs.....	6,423,110	2,306,164	1,411,378
Value.....	\$9,034,027	\$1,063,201	
All other products, value.....	\$3,217,950	\$2,502,197	
Amount received for work done for others.....	\$878,384	\$719,390	

<sup>1</sup> Only total value reported in 1909.

TABLE 28.—BOOTS AND SHOES—NUMBER OF PAIRS, BY METHOD OF MANUFACTURE: 1919 AND 1914.

CLASS.	Con- sum year.	Total.	Welted.	McKay.	Turned.	Wood or metal fastened.
Boots and shoes....	1919 1914	102,389,856 98,009,176	51,641,435 47,023,877	29,430,328 32,597,338	16,033,760 10,647,357	4,384,333 7,940,604
Men's.....	1919 1914	39,610,259 44,750,716	34,511,423 33,052,320	2,154,181 5,588,227	26,832 461,750	2,917,873 5,648,419
Boys' and youths'	1919 1914	5,517,399 8,318,252	1,312,192 1,672,616	3,044,342 5,377,545	25,525	1,134,340 1,268,091
Women's.....	1919 1914	45,251,883 32,295,781	13,063,994 9,067,796	18,531,329 13,322,750	12,535,279 8,779,641	220,781 525,594
Misses' and children's.	1919 1914	12,010,815 12,044,427	1,853,826 2,631,145	5,700,526 8,308,816	14,345,124 1,305,966	111,339 398,500
Slippers.....	1919 1914	5,620,573 11,799,532	380,724 509,269	2,706,174 4,189,518	2,533,675 6,824,978	275,769
Men's, boys', and youths'.	1919 1914	2,364,668 3,061,796	.....	1,122,993 1,313,678	<sup>1</sup> 1,241,675 1,472,349	<sup>2</sup> 275,769
Women's, misses', and children's.	1919 1914	3,255,905 8,737,736	.....	1,881,905 2,876,838	1,364,000 5,352,629	.....
Infants' shoes and slippers.	1919 1914	2,559,373 3,109,511	150,126 477,811	253,811 661,750	2,155,436 1,969,950	.....
All other footwear..	1919 1914	6,423,110 2,306,164	80,483 .....	3,014,927 <sup>3</sup> 563,864	3,327,700 1,742,300	.....

<sup>1</sup> Includes "stitchdown" to avoid disclosure of individual operations.

<sup>2</sup> Includes "welted" and "stitchdown."

<sup>3</sup> Includes "welted."



Of the boots and shoes manufactured in Massachusetts, 50.4 per cent were of the welted type, 28.7 per cent McKay, and 20.8 per cent other types. The corresponding percentages in 1914 were 48, 33.3, and 18.8. The gain shown in number of pairs of welted shoes produced exceeded the total increase of all other types combined. The manufacture of the McKay, always a prominent type in the state, has steadily declined since 1909. In 1909, although not shown in this table, the McKay make formed 37.9 per cent of the total; while in 1919 the percentage was but 28.7 per cent. In 1919, 66.8 per cent of the welted type were men's and 27 per cent were women's. On the other hand, 63 per cent of the McKay were women's and only 7.3 per cent men's. The greater portion of men's boots and shoes, 87.1 per cent, were made by the welted method; while women's shoes were 41 per cent McKay, 30.9 per cent welted, and 27.7 per cent turned. Although boys' and youths' and misses' and children's shoes were principally of the McKay type, a considerable proportion of the misses' and children's were of the turned type.

**Slaughtering and meat packing (Table 29).**—This table presents for the census years 1919, 1914, and 1909, data for both materials and products in detail.

The cost of "All other materials" includes that for dressed meat purchased for curing, cottonseed oil, refrigeration, curing materials, seasoning, fuel, rent of power, containers, mill supplies, and freight; the value of "All other products" includes that for beef, pickled and other cured, canned pork, meat puddings, lard compounds, oleo and other oils, oleo stearin, hog and cattle hair, wool, wooden boxes, cooperage, and skins.

The growth of the industry, when measured by cost of materials and value of products, shows large increases from 1914 to 1919. That for total cost of materials was \$55,807,001, or 122.8 per cent; for cost of animals slaughtered, \$42,875,025, or 123.5 per cent; and for "All other materials," \$12,931,976, or 120.6 per cent. The growth as indicated by the increase in the total number of animals slaughtered, however, was very slight, this increase being only 113,896, or 6.2 per cent, during the five-year period. In fact, the number of beeves and sheep and lambs combined decreased 173,985, or 38.6 per cent, the increase being in calves and hogs, which was 287,881, or 20.9 per cent.

In 1919, compared with 1914, the total value of products for the industry in the state shows an increase of \$58,513,518, or 113.1 per cent. The total value for all fresh meats increased \$3,777,745, or 46.9 per cent, but the combined quantity of the several kinds of fresh meats decreased 27,312,379 pounds, or 18.5 per cent. During this five-year period the largest single product, pork, pickled and other cured, in-

creased 17,283,120 pounds in quantity, or 14.4 per cent, and \$24,542,929, or 148.4 per cent, in value.

TABLE 29.—SLAUGHTERING AND MEAT PACKING: 1919, 1914, AND 1909.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$101,235,340	\$45,428,830	\$37,484,136
Animals slaughtered, cost.....	\$77,581,477	\$34,708,452	\$31,009,461
Beeves—			
Number.....	59,319	79,615	62,900
Cost.....	\$6,501,738	\$4,630,253	\$3,376,319
Calves—			
Number.....	244,394	115,724	129,162
Cost.....	\$3,060,196	\$1,135,673	\$854,275
Sheep and lambs—			
Number.....	217,146	370,835	342,491
Cost.....	\$2,509,439	\$2,086,790	\$1,780,127
Hogs—			
Number.....	1,422,449	1,263,238	1,501,456
Cost.....	\$65,510,104	\$20,854,736	\$25,048,740
All other materials, cost.....	\$23,653,863	\$10,721,887	\$3,474,675
<b>PRODUCTS.</b>			
Total value.....	\$110,238,038	\$51,724,520	\$42,531,499
Fresh meat, value.....	\$27,480,598	\$18,702,853	\$13,242,103
Beef—			
Pounds.....	30,250,063	39,464,297	34,589,397
Value.....	\$5,929,396	\$4,282,617	\$2,865,011
Veal—			
Pounds.....	13,677,154	7,966,636	8,317,482
Value.....	\$1,990,759	\$1,042,344	\$801,055
Mutton and lamb—			
Pounds.....	8,091,291	14,715,201	13,348,470
Value.....	\$1,988,818	\$1,883,045	\$1,658,054
Pork—			
Pounds.....	63,194,630	80,977,605	66,468,331
Value.....	\$17,061,609	\$11,185,062	\$7,956,160
Edible offal and all other fresh meat—			
Pounds.....	5,435,828	4,837,606	1,290,842
Value.....	\$480,016	\$309,785	\$51,814
Pork, pickled and other cured:			
Pounds.....	137,117,461	119,834,341	122,659,181
Value.....	\$41,084,061	\$16,541,132	\$15,044,381
Sausages:			
Pounds.....	24,481,233	27,854,557	23,074,968
Value.....	\$6,212,114	\$4,289,953	\$2,357,348
Lard:			
Pounds.....	72,191,184	66,849,628	60,840,711
Value.....	\$23,374,020	\$7,226,817	\$7,159,116
Tallow and oleo stock:			
Pounds.....	2,019,696	1,276,789	2,775,149
Value.....	\$332,270	\$69,109	\$172,280
Grease and soap stock:			
Pounds.....	5,350,698	582,487	( <sup>2</sup> )
Value.....	\$683,263	\$31,372	( <sup>2</sup> )
Sausage casings:			
Pounds.....	4,114,325	559,808	( <sup>2</sup> )
Value.....	\$472,026	\$173,453	( <sup>2</sup> )
Fertilizer materials:			
Tons.....	10,244	2,380	8,441
Value.....	\$577,806	\$78,423	\$220,019
Hides and pelts:			
Cattle—			
Number.....	59,319	79,615	
Pounds.....	3,452,135	4,487,017	
Value.....	\$1,088,101	\$719,169	101,837
Calves—			
Number.....	243,924	107,324	4,672,435
Pounds.....	1,718,156	970,055	\$686,312
Value.....	\$1,391,074	\$210,394	
Sheep—			
Number.....	217,146	370,835	341,956
Value.....	\$650,633	\$136,327	\$100,214
All other products, value.....	\$6,914,072	\$3,546,518	\$3,450,726

<sup>1</sup> No oleo stock reported in 1914.

<sup>2</sup> Not reported separately.

**Electrical machinery, apparatus, and supplies (Table 30).**—This table presents details for the products of the industry in the state for 1919. Comparative statistics of this character are not available for prior censuses, but the total value of products for the industry in Massachusetts in 1919, as compared with that for 1914, shows an increase of \$48,069,444, or 109.6 per cent.



TABLE 30.—ELECTRICAL MACHINERY, APPARATUS, AND SUPPLIES: 1919.

	Value.
Total .....	1919. 1 \$91,938,738
	1914. 43,869,294
Motors.....	16,651,886
Insulated wire.....	6,143,957
Incandescent lamps.....	4,699,504
Generating apparatus and parts.....	3,892,315
Apparatus and devices, industrial and household.....	3,761,723
Telegraph apparatus.....	2,823,539
Sockets, receptacles, bases, and attachment plugs.....	949,215
Electric clocks and time mechanisms.....	447,319
Telephone apparatus.....	397,999
Switchboards, panel boards, and cut-out cabinets for light and power.....	875,699
Bells, buzzers, and signal gongs.....	351,108
Batteries.....	350,123
Searchlights, projectors, and focusing lamps.....	190,721
Railway switches, signals, and attachments.....	132,373
All other electrical machinery, apparatus, and supplies.....	48,772,689
All other products.....	2,614,264
Amount received for custom work and repairing.....	384,004

<sup>1</sup> In addition, electrical machinery, apparatus, and supplies to the value of \$108,778 were reported in 1919 by establishments engaged primarily in other industries.

<sup>2</sup> Includes articles that can not be shown separately without disclosing individual operations, such as transformers, magneto-ignition apparatus, electric measuring instruments, carbons, arc lamps, rectifying apparatus, insulators, wiring supplies, annunciators, X-ray tubes, etc.

Paper and wood pulp (Table 31).—This industry in Massachusetts consists almost entirely in the manufacture of paper, only one establishment producing wood pulp for sale and three manufacturing it for their own use. This table gives the quantity and cost of materials used, the quantity and value of the principal products, and detailed information regarding equipment, for 1919, 1914, and 1909.

TABLE 31.—PAPER AND WOOD PULP: 1919, 1914, AND 1909.

	1919	1914	1909
<b>MATERIALS.</b>			
Total cost.....	\$53,763,884	\$26,610,748	\$22,349,613
Pulp wood:			
Cords.....	51,981	45,242	( <sup>1</sup> )
Cost.....	\$1,004,840	\$332,908	\$357,888
Wood pulp, purchased, total:			
Tons.....	202,526	181,267	143,905
Cost.....	\$19,465,909	\$8,702,013	\$6,782,838
Ground—			
Tons.....	10,845	11,343	12,191
Cost.....	\$445,184	\$328,980	\$277,421
Soda fiber—			
Tons.....	58,275	44,102	38,434
Cost.....	\$4,608,081	\$1,979,288	\$1,731,456
Sulphite fiber—			
Tons.....	107,247	113,036	91,103
Cost.....	\$11,998,777	\$5,823,339	\$4,654,074
Sulphate fiber—			
Tons.....	25,949	12,788	2,177
Cost.....	\$2,399,356	\$570,456	\$99,887
Screenings, mechanical and chemical—			
Tons.....	210	( <sup>1</sup> )	( <sup>1</sup> )
Cost.....	\$14,651	( <sup>1</sup> )	( <sup>1</sup> )
Rags, including cotton and flax waste and sweepings:			
Tons.....	69,465	79,307	93,558
Cost.....	\$9,490,326	\$5,181,974	\$4,859,936
Paper stock, including high-grade shavings and old and waste paper:			
Tons.....	157,995	137,716	106,216
Cost.....	\$4,846,672	\$2,375,667	\$1,861,709
Manila stock, including jute bagging, rope waste, threads, etc.:			
Tons.....	22,639	15,424	17,515
Cost.....	\$1,502,917	\$672,480	\$660,065
China clay, domestic and foreign:			
Tons.....	35,181	( <sup>1</sup> )	( <sup>1</sup> )
Cost.....	\$714,655	( <sup>1</sup> )	( <sup>1</sup> )
Bleaching powder:			
Tons.....	7,669	( <sup>1</sup> )	( <sup>1</sup> )
Cost.....	\$326,630	( <sup>1</sup> )	( <sup>1</sup> )
Fuel and rent of power, cost.....	\$4,916,773	\$2,721,645	\$2,331,897
All other materials, cost.....	\$11,495,072	\$6,624,061	\$5,515,280

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TABLE 31.—PAPER AND WOOD PULP: 1919, 1914, AND 1909—Continued.

	1919	1914	1909
<b>PRODUCTS.</b>			
Total value.....	\$37,159,890	\$43,352,545	\$40,098,713
Book, plate, and coated paper:			
Tons.....	130,611	143,897	121,371
Value.....	\$21,311,815	\$12,169,771	\$10,011,719
Cover paper:			
Tons.....	6,849	6,475	3,898
Value.....	\$2,001,029	\$1,019,445	\$489,275
Fine paper: <sup>4</sup>			
Tons.....	91,026	86,876	89,595
Value.....	\$34,770,247	\$17,879,504	\$17,438,568
Wrapping paper:			
Tons.....	19,863	13,848	16,362
Value.....	\$3,190,534	\$1,685,619	\$1,900,385
Boards:			
Tons.....	115,649	59,157	53,233
Value.....	\$10,767,394	\$2,196,686	\$2,065,865
All other products, value.....	\$15,118,871	\$8,401,520	\$8,190,901
<b>EQUIPMENT.</b>			
Paper machines:			
Fourdrinier—			
Number.....	153	160	150
Capacity, tons, 24 hours.....	1,341	1,118	920
Cylinder—			
Number.....	40	43	65
Capacity, tons, 24 hours.....	532	550	454
Digestors, number.....	19	17	17
Grinders, number.....	10	10	11
Yearly capacity of mills in pulp, tons.....	40,400	33,556	24,401
Yearly capacity of mills in paper, tons.....	672,085	497,520	410,536

<sup>1</sup> Not reported.

<sup>2</sup> Reported in 1909 as "Other chemical fiber."

<sup>3</sup> Not reported separately.

<sup>4</sup> Reported as "Writing and other fine paper" in 1914 and 1909.

The item "All other materials" includes the cost of sizing, chemicals, sulphur, dyestuffs, freight, and mill supplies.

Fine paper, including writing paper, was the principal product of the industry in the state at each census, forming 39.9 per cent of the total value of all products in 1919. Book paper was the next in importance in this respect, representing 24.4 per cent at that census. In 1919 Massachusetts produced 28 per cent of the total quantity of fine paper manufactured in the United States. In 1914 the corresponding proportion was 35.1 per cent, and in 1909, 45.2 per cent. To avoid disclosing the data of individual establishments, it was necessary to include the value of tissue paper, tag stock, poster, novel, blotting paper, newspaper, hanging paper, etc., and wood pulp produced for sale in "All other products."

Textile machinery and parts (Table 32).—Separate statistics for the manufacture of textile machinery have not been shown at prior censuses, but were included in the general classification "Foundry and machine-shop products." Massachusetts led in 1919 in the manufacture of textile machinery, reporting 53.7 per cent of the total value of products for the United States. The details presented in Table 32 give only such items as can be shown without the possibility of disclosing the operations of individual establishments.



TABLE 32.—TEXTILE MACHINERY AND PARTS: 1919.

PRODUCT.	Value.
Total.....	\$65,901,370
Machinery for working raw stock, and subsequent machinery used in textile mills in preparing yarn for weaving, knitting, etc.	23,070,283
Carding machines.....	7,176,675
Spinning and throwing machines.....	6,465,628
Twisting or doubling frames.....	1,618,300
Roving machines and slubbing frames.....	1,579,929
Winders and warp spooling machines.....	1,240,440
Picker machines.....	976,366
All other preliminary machinery.....	4,012,945
Fabric machinery.....	17,081,912
Machinery for converting and finishing yarn and fabrics.....	2,158,989
Extra parts, attachments and accessories for textile machinery....	17,373,189
Parts and attachments for machines working raw stock to yarn.....	10,854,212
Parts and attachments for fabric machines.....	3,581,260
Parts and attachments for converting and finishing machines.....	2,957,717
Other textile machinery, including repairs.....	4,607,163
Other machinery not pertaining to textiles.....	824,176
All other products.....	785,658

Printing and publishing (Tables 33 and 34).—Table 33 shows the number and aggregate circulation per issue of all the newspapers and periodicals published in Massachusetts as reported at the censuses of 1919, 1914, and 1909.

TABLE 33.—PRINTING AND PUBLISHING: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE CIRCULATION PER ISSUE.		
	1919	1914	1909	1919	1914	1909
Total.....	570	632	537	9,026,485	10,072,651	9,636,182
Daily.....	84	93	86	2,085,287	2,060,343	1,765,690
Sunday.....	17	21	15	1,444,846	1,271,453	1,122,049
Semiweekly <sup>1</sup> .....	7	10	8	15,058	20,550	23,225
Weekly.....	284	322	271	1,493,362	2,552,499	1,911,486
Monthly <sup>2</sup> .....	129	130	112	2,918,846	2,780,289	3,305,165
Quarterly.....	44	44	31	1,056,934	1,361,467	1,401,844
All other classes <sup>3</sup> .....	5	12	14	12,152	20,050	106,723

<sup>1</sup> Includes 2 triweekly publications in 1919, and 3 in 1914 and 1909.

<sup>2</sup> Includes 10 semi-monthly publications in 1919; 12, in 1914; and 5, in 1909.

<sup>3</sup> Includes 4 bimonthly and 1 four-times-a-week publications in 1919; 9 bimonthly publications, 2 semiannuals, and 1 semi-quarterly in 1914; and 7 bimonthly and 7 "all other" publications in 1909.

The decrease in total circulation is due to the removal to New York City of one weekly of large circulation and to the reduction in reported circulation of several quarterly publications of religious and charitable type.

The circulation of daily newspapers increased 24,944, or 1.2 per cent, during the five years from 1914 to 1919 and 319,597, or 18.1 per cent, during the decade. The low rate of increase for the five-year period is due to the consolidation of certain leading dailies and to the extinction of others.

Of the daily circulation as reported for 1919, 1,231,070, or 59 per cent, is shown for the 66 afternoon newspapers. The Sunday circulation shows an increase of 173,393, or 13.6 per cent, from 1914 to 1919; and of 322,797, or 28.8 per cent, during the decade.

Table 34 shows the number and, so far as possible without disclosure of individual establishments, the

circulation of foreign-language newspapers, and periodicals, compared with those in English, by period of issue, for the censuses of 1919, 1914, and 1909.

TABLE 34.—PRINTING AND PUBLISHING, BY LANGUAGES: 1919, 1914, AND 1909.

PERIOD OF ISSUE.	Census year.	TOTAL.		IN ENGLISH.		IN FOREIGN LANGUAGES.	
		Num-ber.	Aggregate circulation per issue.	Num-ber.	Aggregate circulation per issue.	Num-ber.	Aggregate circulation per issue.
Total.....	1919	570	9,026,485	509	8,669,617	61	356,868
	1914	632	10,072,651	575	9,467,839	57	604,812
	1909	537	9,636,182	490	9,261,144	47	375,038
Daily and Sunday.....	1919	101	3,530,133	87	3,445,147	14	84,986
	1914	114	3,331,796	107	3,299,249	7	32,547
	1909	101	2,857,739	96	2,871,539	5	16,200
Weekly <sup>1</sup> .....	1919	292	1,510,847	263	1,307,915	29	112,932
	1914	332	2,579,049	292	2,431,807	40	147,242
	1909	279	1,934,711	245	1,827,105	34	107,606
Monthly.....	1919	119	2,886,640	106	2,840,225	13	46,415
	1914	118	2,153,439	112	2,122,266	6	31,173
	1909	101	2,744,183	101	2,744,183	(*)	(*)
All other classes <sup>2</sup> .....	1919	58	1,098,865	53	986,330	5	112,535
	1914	68	2,008,867	64	1,614,517	4	393,850
	1909	56	2,069,649	48	1,818,317	8	251,232

<sup>1</sup> Includes in 1919, 2 triweeklies and 4 semiweeklies in English, and 1 triweekly and 1 semiweekly in foreign languages; in 1914, 3 semiweeklies and 2 triweeklies in English, and 4 semiweeklies and 1 triweekly in foreign languages; in 1909, 1 semiweekly and 2 triweeklies in English, and 4 semiweeklies and 1 triweekly in foreign languages.

<sup>2</sup> Includes in "all other classes" to avoid disclosure of individual operations.

<sup>3</sup> Includes in 1919, 9 semi-monthly and 4 bimonthly publications, and 40 quarterlies in English, and 1 semi-monthly publication and 4 quarterlies in foreign languages; in 1914, 10 semi-monthly and 6 bimonthly publications, 42 quarterlies, and 3 "all other" in English, and 2 semi-monthly publications and 2 quarterlies in foreign languages; and in 1909, 5 semi-monthly and 7 bimonthly publications, 30 quarterlies, and 6 "all other" in English, and 6 monthly publications, 1 quarterly, and 1 "all other" in foreign languages.

The decrease in the total circulation of foreign-language publications since 1914 was 247,944, or 41 per cent.

It is of interest to note that the French publications show the largest increase in circulation—75,973—which was due to the issuance of a quarterly religious and charitable publication formerly printed in English-and-French. German publications decreased by four, but the circulation as reported increased slightly. The other leading foreign-language publications were those in Portuguese, Lithuanian, Polish, Italian, and Finnish. Albanian, Dutch, Spanish, and Syrian were newcomers in census returns for Massachusetts, while Esperanto and Yiddish publications disappeared during the five-year period from 1914 to 1919.

The daily foreign-language newspapers were in Albanian, Armenian, Finnish, French, Italian, Polish, and Portuguese.

Laundries (Table 35).—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 35, however, summarizes the statistics for such laundries in the state for 1919 and 1914.



TABLE 35.—POWER LAUNDRIES: 1919 AND 1914.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1914-1919.
	1919	1914	
Number of establishments.....	340	391.	-13.0
Persons engaged.....	7,930	8,861	-10.2
Proprietors and firm members.....	330	404	-18.3
Salaried employees.....	809	686	17.9
Wage earners (average number).....	6,821	7,771	-12.2
Primary horsepower.....	11,502	11,382	1.1
Capital.....	\$7,206,319	\$4,695,798	54.7
Salaries and wages.....	6,451,179	4,434,869	45.5
Salaries.....	1,160,025	713,460	63.4
Wages.....	5,285,153	3,721,409	42.0
Paid for contract work.....	733,385	59,706	1,136.7
Rent and taxes.....	362,461	275,427	31.6
Cost of materials.....	2,484,350	1,391,900	78.5
Amount received for work done.....	12,894,279	8,661,880	48.5

<sup>1</sup>A minus sign (—) denotes decrease.

Dyeing and cleaning (Table 36).—Statistics for dyeing and cleaning establishments that were operated by mechanical power in 1919 are presented in this table. Statistics for such establishments are not included in the general tables nor in the totals for manufacturing industries for censuses since 1900. This presentation is the first of its kind that has been made since the census statistics were confined to manufacturing industries as distinguished from the hand trades, household industries, etc.

TABLE 36.—DYEING AND CLEANING: 1919.

	Number or amount.
Number of establishments.....	45
Persons engaged.....	894
Proprietors and firm members.....	88
Salaried employees.....	133
Wage earners (average number).....	723
Primary horsepower.....	1,063
Capital.....	\$396,211
Salaries and wages.....	856,529
Salaries.....	185,412
Wages.....	671,117
Paid for contract work.....	15,847
Rent and taxes.....	125,073
Cost of materials.....	584,673
Amount received for work done.....	2,252,321

## GENERAL TABLES.

Table 39 gives, for 1919, 1914, and 1909 for selected industries in the state and in 12 cities having 50,000 inhabitants or more the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products, while for Haverhill and for cities of 10,000 to 50,000 inhabitants for which comparable figures are available, similar data for all industries combined.

Custom sawmills and gristmills (Tables 37 and 38).—Statistics for custom sawmills and custom gristmills are not included in the general tables nor in the totals for manufacturing industries. Data for custom mills were not collected in 1914. Tables 37 and 38, however, summarize the statistics for such mills for 1919 and 1909. The value of products for custom sawmills represents the amount charged for the work performed and that for custom gristmills the selling value of the grain milled.

TABLE 37.—CUSTOM SAWMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	27	35	-----
Persons engaged.....	45	92	-----
Proprietors and firm members.....	34	40	-----
Wage earners (average number).....	11	52	-----
Primary horsepower.....	1,002	1,612	-33.7
Capital.....	\$53,705	\$78,685	-31.7
Wages.....	9,906	22,548	-56.1
Rent and taxes.....	788	773	1.7
Cost of materials.....	1,502	601	149.9
Amount received for work done.....	26,699	47,754	-44.1

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

TABLE 38.—CUSTOM GRISTMILLS: 1919 AND 1909.

	NUMBER OR AMOUNT.		Per cent of increase, <sup>1</sup> 1909-1919.
	1919	1909	
Number of establishments.....	10	15	-----
Persons engaged.....	16	26	-----
Proprietors and firm members.....	12	16	-----
Wage earners (average number).....	4	10	-----
Primary horsepower.....	390	584	-33.2
Capital.....	\$46,384	\$42,780	8.4
Wages.....	4,292	2,333	84.0
Rent and taxes.....	3,802	429	786.2
Cost of materials.....	129,747	85,510	51.7
Value of products <sup>2</sup> .....	151,159	99,381	52.1

<sup>1</sup>A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.<sup>2</sup>Includes estimate of all grain ground.

Table 40 presents, for 1919, for the state as a whole and for the 13 cities having 50,000 inhabitants or more, statistics in detail for each industry for which figures can be shown without disclosing the operations of individual establishments; and for cities of 10,000 to 50,000 inhabitants, similar data for all industries combined.



## MANUFACTURES—MASSACHUSETTS.

TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.															
All industries.....	1919	11,906	713,836	1,729,878	766,623	2,260,713	4,011,182	Copper, tin, and sheet-iron products. <sup>2</sup>	1919	172	3,124	3,203	3,656	8,875	15,536
	1914	12,013	606,698	1,396,722	341,310	931,384	1,641,373		1914	159	2,088	2,791	1,063	3,510	7,347
	1909	11,684	584,559	1,175,071	301,173	830,785	1,490,529		1909	150	2,027	1,808	1,481	2,933	6,185
Automobiles, including bod- ies and parts.	1919	96	4,530	4,441	5,829	16,282	27,032	Corsets.....	1919	11	1,555	835	1,093	3,307	6,704
	1914	86	3,439	4,298	3,016	5,642	11,199		1914	11	2,208	690	906	1,902	4,681
	1909	62	4,138	2,896	2,793	5,491	11,359		1909	10	1,989	455	735	1,607	3,752
Belting, leather.....	1919	20	269	383	329	2,930	3,944	Cotton goods, including cot- ton small wares.	1919	231	124,150	526,367	111,141	304,921	604,038
	1914	20	1,113	1,886	764	4,980	7,297		1914	189	113,559	438,083	50,708	119,834	197,322
	1909	16	955	897	556	3,606	5,647		1909	182	108,914	302,043	45,117	105,157	180,462
Blacking and cleansing and polishing preparations.	1919	93	765	746	761	4,905	8,501	Cutlery and tools, not else- where specified.	1919	168	11,214	20,492	12,305	13,300	48,832
	1914	93	672	574	302	2,083	3,841		1914	137	6,485	12,725	3,903	3,394	12,974
	1909	80	527	892	257	1,879	3,713		1909	135	6,747	13,263	3,738	3,484	11,611
Boots and shoes, including cut stock and findings.	1919	929	90,693	48,353	99,589	387,219	573,037	Dyeing and finishing tex- tiles, exclusive of that done in textile mills.	1919	62	12,321	30,133	12,241	44,210	75,262
	1914	884	85,114	39,721	51,007	164,242	255,183		1914	57	11,437	30,932	5,843	10,989	22,455
	1909	860	83,063	35,051	45,990	152,990	236,343		1909	48	9,079	24,513	4,430	10,469	21,893
Boots and shoes, rubber.....	1919	8	13,082	21,609	12,763	17,621	44,305	Dyestuffs and extracts—nat- ural.	1919	27	165	773	200	4,476	5,812
	1914	9	8,087	8,177	4,468	10,455	23,789		1914	17	148	520	99	1,162	1,074
	1909	8	6,928	8,330	3,376	10,640	18,722		1909	10	80	325	50	512	725
Boxes, paper and other, not elsewhere specified.	1919	102	4,711	4,168	3,547	7,463	15,666	Electrical machinery, appa- ratus, and supplies.	1919	110	23,889	36,367	27,650	31,837	91,939
	1914	97	4,244	3,893	1,886	3,672	7,085		1914	91	17,125	29,846	10,651	17,097	43,869
	1909	99	3,838	2,370	1,557	2,719	5,788		1909	83	14,507	14,835	8,209	12,735	28,143
Brass, bronze, and copper products.	1919	72	2,832	15,511	3,506	9,367	16,943	Emery and other abrasive wheels.	1919	14	2,443	5,886	2,265	5,013	13,118
	1914	73	1,620	7,415	1,063	3,715	5,069		1914	12	902	2,214	599	806	2,299
	1909	85	1,791	6,407	1,115	3,663	6,042		1909	13	615	1,710	429	504	1,982
Bread and other bakery products.	1919	1,309	8,583	7,712	9,336	40,587	66,017	Fancy articles, not else- where specified. <sup>3</sup>	1919	71	3,833	3,976	3,229	7,359	13,096
	1914	1,419	8,083	6,589	4,866	18,271	32,309		1914	67	2,777	2,457	1,383	2,857	5,342
	1909	1,201	6,697	4,816	3,814	15,727	26,146		1909	78	3,568	2,382	1,030	3,514	6,018
Brushes.....	1919	30	1,613	1,005	1,342	3,334	6,857	Firearms.....	1919	5	2,253	2,121	2,599	1,060	5,045
	1914	29	1,437	878	717	2,231	3,910		1914	6	2,161	1,990	1,401	711	3,297
	1909	30	1,629	580	653	1,356	2,875		1909	8	2,327	3,059	1,458	752	3,408
Canning and preserving <sup>1</sup> ....	1919	55	1,944	1,677	1,388	13,433	19,017	Flour-mill and gristmill prod- ucts.	1919	75	123	4,013	130	4,250	4,878
	1914	65	1,903	996	866	5,066	8,169		1914	105	176	4,900	101	3,424	3,811
	1909	71	1,449	1,043	642	4,583	6,840		1909	120	220	5,642	126	4,131	4,632
Carpets and rugs, other than rag.	1919	10	3,134	6,132	3,146	8,021	13,594	Food preparations, not else- where specified.	1919	81	848	1,910	773	0,072	9,603
	1914	12	5,319	10,600	2,389	6,668	10,981		1914	68	400	1,032	280	1,953	4,043
	1909	11	5,954	10,037	2,763	7,501	12,812		1909	50	366	827	198	1,292	2,547
Carriages and sleds, chil- dren's.	1919	13	1,449	1,358	1,414	2,550	5,254	Foundry and machine-shop products. <sup>4</sup>	1919	1,179	61,740	98,105	77,067	87,990	244,579
	1914	8	1,175	1,130	600	1,460	2,644		1914	932	41,361	68,518	28,118	30,900	85,639
	1909	7	858	845	411	955	1,755		1909	857	44,179	52,802	27,032	31,182	80,926
Cars and general shop con- struction and repairs by electric-railroad companies.	1919	30	1,846	2,790	2,446	1,756	4,505	Furnishing goods, men's <sup>5</sup> ...	1919	43	3,240	1,989	2,671	10,278	17,862
	1914	39	1,705	235	1,373	1,204	2,566		1914	43	3,310	1,727	1,582	4,370	7,592
	1909	46	1,708	1,788	1,096	975	2,140		1909	55	4,200	2,306	1,952	6,052	12,030
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	14	7,724	11,259	11,272	10,291	22,638	Furniture and refrigerators..	1919	171	6,435	10,677	6,748	10,845	24,109
	1914	15	6,264	8,287	4,394	4,197	8,830		1914	145	6,954	10,910	4,084	5,858	14,281
	1909	21	5,162	5,697	3,447	3,976	7,804		1909	155	7,277	12,203	3,986	5,808	13,868
Chemicals.....	1919	27	2,483	9,223	3,044	8,101	17,305	Gas, illuminating and heating	1919	51	2,654	18,827	3,557	10,774	24,231
	1914	24	1,395	5,405	955	3,355	6,685		1914	61	3,182	11,462	2,141	5,951	15,762
	1909	24	1,358	3,731	811	3,048	5,916		1909	64	2,292	7,371	1,260	3,810	11,074
Chocolate and cocoa prod- ucts.	1919	6	2,007	5,711	1,945	23,989	30,327	Glue, not elsewhere specified.	1919	13	826	1,095	940	3,630	6,451
	1914	5	943	4,403	592	7,303	10,210		1914	11	563	1,481	294	1,789	2,589
	1909								1909	14	509	2,151	223	1,159	1,895
Clothing, men's, including shirts.	1919	219	7,946	2,285	7,989	26,465	46,583	Grease and tallow, not in- cluding lubricating greases.	1919	24	825	2,163	917	4,836	7,323
	1914	227	7,645	1,695	3,853	10,415	19,614		1914	33	622	1,244	420	1,820	2,068
	1909	254	7,335	1,753	3,398	9,756	18,314		1909	35	561	1,374	347	1,753	2,661
Clothing, women's.....	1919	258	6,271	1,622	5,616	17,974	30,428	Hats, straw.....	1919	19	1,400	695	1,109	2,980	5,485
	1914	202	6,076	1,202	2,960	7,664	13,983		1914	13	2,383	1,857	1,461	3,205	5,762
	1909	174	5,813	1,024	2,446	6,511	11,728		1909	18	2,668	1,009	1,448	3,680	6,589
Coffee and spice, roasting and grinding.	1919	23	512	1,377	483	14,005	16,978	House-furnishing goods, not elsewhere specified.	1919	54	1,081	746	793	5,130	7,708
	1914	21	466	1,312	265	6,312	8,675		1914	29	444	814	203	844	1,359
	1909	17	373	996	201	4,082	5,806		1909	18	311	490	129	593	921
Confectionery and ice cream..	1919	278	11,585	11,236	8,523	40,354	68,897	Iron and steel, steel works and rolling mills.	1919	11	3,684	31,609	5,768	19,236	30,970
	1914	273	7,250	6,699	3,037	13,841	22,902		1914	11	2,889	28,507	1,903	8,802	11,376
	1909	70	974	2,863	452	1,094	1,939		1909	9	3,115	24,500	1,977	10,032	15,598

<sup>1</sup> Includes "canning and preserving, fish," and "pickles, preserves, and sauces," in all years; "canning and preserving, fruits and vegetables," in 1914 and 1909; and "canning and preserving, oysters," in 1909.

<sup>2</sup> Includes "stamped ware, not elsewhere specified," and "tinware, not elsewhere specified."

<sup>3</sup> Includes "combs and hairpins, not made from metal or rubber," and "ivory, shell, and bone work."

<sup>4</sup> Includes "automobile repairing," "engines, steam, gas, and water," "gas machines and gas and water meters," "hardware," "iron and steel, tempering and welding," "machine tools," "plumbers' supplies, not elsewhere specified," "pumps, steam," "steam fittings and steam and hot-water heating apparatus," "structural iron-work, not made in steel works or rolling mills," and "textile machinery and parts," in all years; "hardware, saddlery," in 1914 and 1909; and "iron and steel, cast-iron pipe," in 1919.

<sup>5</sup> Includes "suspenders, garters, and elastic woven goods."



TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mater- ials.	Value of prod- ucts.	INDUSTRY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mater- ials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919 1914 1909	11 8 10	1,471 1,292 1,217	2,120 2,073 2,233	1,613 764 703	3,150 1,041 968	5,763 2,267 2,427	Paper goods, not elsewhere specified. <sup>2</sup>	1919 1914 1909	57 60 61	3,886 5,829 5,135	9,395 8,621 6,776	3,497 2,918 2,344	15,130 8,687 7,436	24,421 15,579 13,533
Iron and steel, forgings, not made in steel works or rolling mills.	1919 1914 1909	14 10 11	2,172 653 565	6,579 1,825 1,459	2,906 523 381	5,278 839 925	13,299 2,076 1,949	Patent medicines and com- pounds and druggists' preparations. <sup>4</sup>	1919 1914 1909	139 162 154	2,390 1,381 1,183	1,981 1,586 1,376	1,905 896 666	8,612 3,323 2,727	20,327 8,263 7,432
Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.	1919 1914 1909	25 28 26	1,537 1,233 1,125	3,380 3,308 2,870	1,520 698 576	3,841 1,421 1,510	7,853 2,847 2,928	Printing and publishing. <sup>3</sup>	1919 1914 1909	1,327 1,344 1,279	18,247 18,170 17,632	21,129 20,295 47,629	20,805 13,286 11,684	34,906 16,817 12,881	104,551 50,196 47,445
Jewelry.....	1919 1914 1909	165 202 175	6,786 6,505 7,423	4,404 4,272 4,018	7,234 3,889 4,422	18,365 6,710 5,579	34,817 14,176 15,211	Rubber tires, tubes, and rubber goods, not else- where specified.	1919 1914 1909	47 42 29	9,406 4,743 3,418	34,358 17,515 10,123	11,682 2,845 1,709	47,076 14,142 11,005	93,377 23,011 15,796
Knit goods.....	1919 1914 1909	77 77 65	12,751 10,635 9,941	16,574 12,309 9,113	11,364 4,737 3,855	31,173 9,267 6,972	52,424 17,419 14,736	Shipbuilding, wooden, in- cluding boat building.	1919 1914	55 81	928 435	2,074 1,513	1,402 328	1,978 396	4,192 1,061
Lasts.....	1919 1914 1909	31 32 27	1,299 880 675	2,861 2,278 1,610	1,598 553 526	1,837 592 611	5,886 1,909 1,909	Silk goods, including throw- sters.	1919 1914 1909	21 19 19	5,697 4,495 4,109	9,811 6,635 5,305	5,040 2,092 1,840	19,243 5,961 5,430	34,194 10,977 8,942
Leather goods <sup>1</sup> .....	1919 1914 1909	102 119 119	1,680 1,430 1,710	670 444 634	1,377 785 859	4,063 2,219 2,387	7,373 4,023 4,373	Silverware and plated ware.	1919 1914 1909	25 17 21	2,345 2,163 2,405	2,991 2,730 2,113	2,471 1,468 1,725	4,300 2,228 2,728	9,825 5,642 6,539
Leather, tanned, curried, and finished.	1919 1914 1909	131 126 132	15,180 10,164 10,252	34,159 20,534 19,231	19,211 8,618 5,444	82,017 33,194 28,766	129,595 45,265 40,002	Slaughtering and meat pack- ing. <sup>6</sup>	1919 1914 1909	96 107 94	6,613 3,582 3,325	9,201 6,742 4,344	5,788 2,141 1,537	105,458 47,476 35,886	115,534 54,447 44,403
Linen goods.....	1919 1914 1909	4 7 7	1,219 1,541 1,552	3,780 4,605 4,650	1,106 652 660	3,328 1,785 1,904	5,178 3,060 3,392	Soap.....	1919 1914 1909	27 32 38	1,008 460 458	2,785 1,400 1,379	984 280 227	11,173 2,476 2,377	18,730 4,671 4,283
Liquors, malt.....	1919 1914 1909	19 26 37	1,328 2,106 1,739	7,835 12,100 9,917	1,931 1,092 1,481	4,188 4,920 3,593	14,713 15,608 12,724	Sporting and athletic goods.	1919 1914 1909	14 15 18	1,397 1,275 891	1,912 1,188 870	1,248 767 474	3,004 1,984 1,235	5,774 3,424 2,510
Lumber and timber prod- ucts. <sup>2</sup>	1919 1914 1909	482 589 708	7,119 8,156 8,970	38,550 42,493 44,784	7,593 9,075 5,031	17,794 13,177 12,484	33,612 23,012 23,026	Stationery goods, not else- where specified.	1919 1914 1909	30 27 27	3,305 2,467 1,790	1,500 1,232 924	2,619 1,248 778	7,265 3,552 2,395	15,162 6,512 5,624
Marble and stone work.....	1919 1914 1909	239 306 330	1,936 3,858 5,015	11,653 15,460 16,515	2,625 2,880 3,552	2,519 1,885 2,192	7,125 6,734 7,804	Stoves and hot-air furnaces.	1919 1914 1909	15 13 21	1,386 1,446 1,703	2,420 1,061 1,804	1,785 1,116 532	1,671 893 1,079	5,677 2,984 3,542
Mattresses and spring beds, not elsewhere specified.	1919 1914 1909	52 54 52	583 740 667	903 1,032 592	637 376 336	2,426 1,456 1,297	4,015 4,019 2,227	Surgical appliances.....	1919 1914 1909	14 14 13	609 249 206	728 322 221	532 149 112	4,346 1,039 474	6,672 1,459 802
Millinery and lace goods, not elsewhere specified.	1919 1914 1909	60 69 79	1,396 2,026 1,686	628 451 391	1,258 940 667	3,153 2,886 2,282	5,959 4,919 3,977	Tobacco manufactures.....	1919 1914 1909	269 336 417	2,976 3,926 3,551	315 339 251	3,354 3,110 2,506	4,985 3,811 2,921	11,891 9,269 7,883
Mineral and soda waters.....	1919 1914 1909	172 171 145	768 608 525	1,849 855 657	816 333 313	4,080 1,075 803	8,177 2,442 2,193	Toys and games.....	1919 1914 1909	30 18 16	1,642 1,381 1,051	1,716 1,119 745	1,101 636 447	1,893 1,129 859	4,704 2,536 1,751
Motorcycles, bicycles, and parts.	1919 1914 1909	8 6 10	3,000 2,135 843	3,050 2,104 899	3,238 1,567 580	8,408 3,194 1,378	16,000 7,021 2,706	Wire.....	1919 1914 1909	9 8 10	5,203 2,899 3,718	24,799 15,142 10,498	7,353 2,005 2,218	11,874 4,656 5,538	24,552 8,389 9,580
Musical instruments, pianos and organs and materials.	1919 1914 1909	40 52 59	3,950 3,906 4,245	4,462 5,105 4,454	4,392 2,510 2,568	5,808 3,702 4,149	13,342 8,213 9,106	Wirework, not elsewhere specified.	1919 1914 1909	27 30 31	1,470 1,950 1,578	1,699 2,648 1,468	1,399 1,079 809	1,706 2,331 1,499	4,519 4,878 3,232
Needles, pins, and hooks and eyes.	1919 1914	7 4	1,375 535	980 390	1,337 268	1,199 190	4,184 577	Wool scouring.....	1919 1914 1909	13 10 8	1,012 577 493	4,628 4,479 3,645	1,498 334 229	1,050 727 169	3,669 1,407 631
Oil, not elsewhere specified..	1919 1914 1909	15 16 17	146 303 293	312 885 617	150 197 174	3,505 2,239 2,273	4,364 2,975 2,864	Woolshoddy.....	1919 1914 1909	23 17 27	623 446 442	4,419 3,106 4,688	685 240 202	3,700 1,267 1,193	5,515 1,903 1,766
Optical goods.....	1919 1914 1909	29 13 11	4,082 2,356 2,460	4,887 3,048 2,230	3,437 1,390 1,103	3,406 1,196 1,163	12,088 3,993 3,058	Woolen, worsted, and felt goods. <sup>7</sup>	1919 1914 1909	197 171 183	54,950 54,255 53,873	183,973 143,461 117,119	57,904 27,363 24,593	219,350 83,077 87,976	352,913 130,349 141,967
Paint and varnish.....	1919 1914 1909	33 34 41	591 490 428	1,644 1,411 1,819	592 302 251	5,673 2,622 2,075	9,807 4,876 3,469	All other industries.....	1919 1914 1909	1,460 1,618 1,827	64,825 42,932 46,693	139,890 105,774 82,224	80,739 25,488 23,728	195,816 86,772 83,865	356,435 144,639 144,636
Paper and wood pulp.....	1919 1914 1909	78 86 88	12,960 13,401 12,848	145,323 133,860 115,792	14,642 7,549 6,542	53,704 26,611 22,350	87,160 43,353 40,087								

<sup>1</sup> Includes "pocketbooks"; "saddlery and harness"; and "trunks and valises."<sup>2</sup> Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens and weather strips."<sup>3</sup> Includes "envelopes."<sup>4</sup> Includes "perfumery and cosmetics."<sup>5</sup> Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."<sup>6</sup> Includes "sausage, not made in slaughtering and meat-packing establishments."<sup>7</sup> Includes "hats, wool-felt," in 1909.



## MANUFACTURES—MASSACHUSETTS.

TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.			Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.			Cost of mate- rials.	Value of prod- ucts.									
					Expressed in thousands of dollars.										Expressed in thousands of dollars.													
					CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.																							
<b>BOSTON</b> .....	1919	3,077	88,759	101,604	96,401	349,606	618,922			<b>BOSTON—Con.</b>																		
All industries.	1914	3,138	78,894	85,897	49,444	150,568	284,802			Foundry and machine-shop	1919	239	11,469	14,520	15,435	15,254	48,653											
	1909	3,195	73,957	77,275	42,386	127,928	244,793			products. <sup>4</sup>	1914	225	8,041	10,413	5,742	6,628	18,259											
Automobile bodies and parts	1919	22	257	265	326	323	918				1909	211	6,323	6,886	4,190	5,100	13,474											
	1914	10	193	147	147	140	449			Fur goods.....	1919	18	282	55	384	1,287	2,368											
Awnings, tents, and sails....	1919	21	168	55	156	504	877				1914	17	208	49	146	476	862											
	1914	19	173	43	108	279	517			Furnishing goods, men's,	1919	11	207	17	159	1,607	2,450											
	1909	19	204	32	110	231	468			neckwear.	1914	7	237	51	118	668	1,040											
Belting, leather.....	1919	3	39	55	45	1,129	1,455			Furniture and refrigerators..	1919	67	1,088	1,165	1,381	2,750	5,630											
	1914	4	52	53	38	623	904				1914	53	872	792	634	1,128	2,551											
	1909	5	46	43	35	513	698				1909	64	943	822	617	1,159	2,654											
Blacking and cleansing and polishing preparations.	1919	28	145	283	133	1,023	2,075			Hats and caps, other than	1919	31	352	59	484	1,301	2,241											
	1914	27	141	178	79	537	1,127			felt, straw, and wool.	1914	28	278	47	164	396	710											
	1909	23	125	114	67	417	820			House-furnishing goods, not	1919	30	553	144	390	3,164	4,685											
Boots and shoes, including out stock and findings.	1919	57	7,531	5,082	7,632	48,772	66,427			elsewhere specified.	1914	8	85	20	45	108	217											
	1914	51	7,421	4,158	4,029	19,479	27,163				1909	6	36	6	19	77	119											
	1909	43	6,116	2,062	3,046	19,835	26,147			Instruments, professional	1919	12	441	293	497	492	1,506											
Boxes, set-up paper boxes and cartons.	1919	21	971	474	685	944	2,314			and scientific.	1914	12	434	589	332	378	891											
	1914	19	725	308	308	364	852				1909	15	344	221	235	225	781											
	1909	21	964	414	362	558	1,213			Jewelry.....	1919	32	198	103	298	731	1,603											
Brass, bronze, and copper products.	1919	24	213	244	304	725	1,410				1914	39	250	112	186	386	866											
	1914	27	185	266	141	233	500				1909	32	303	82	189	248	710											
	1909	33	333	244	224	363	806			Knit goods.....	1919	11	884	374	683	2,541	4,205											
Bread and other bakery prod- ucts.	1919	306	2,798	2,413	2,987	12,897	21,681				1914	10	770	291	310	1,005	1,596											
	1914	312	2,701	2,235	1,547	5,830	11,413				1909	8	729	168	253	583	1,026											
	1909	285	1,999	6,663	1,068	4,825	8,109			Leather goods <sup>5</sup> .....	1919	34	375	121	384	1,346	2,266											
Canning and preserving <sup>1</sup> ....	1919	19	519	857	446	3,861	6,034				1914	40	352	132	224	691	1,245											
	1914	23	444	594	233	1,638	2,633				1909	45	558	152	280	797	1,434											
	1909	21	323	577	140	1,383	1,951			Liquors, malt.....	1919	10	802	3,735	1,221	2,104	8,956											
Carriages and wagons and materials.	1919	28	181	156	213	194	544				1914	13	1,225	5,951	1,149	2,594	8,836											
	1914	31	339	375	247	288	694				1909	20	1,126	4,799	1,019	1,957	7,554											
	1909	26	298	450	204	222	582			Lumber and timber products	1919	44	689	3,181	864	2,045	3,765											
Cars and general shop con- struction and repairs by steam-railroad companies.	1919	6	1,860	700	2,601	1,943	4,728				1914	55	859	2,970	641	1,680	2,903											
	1914	5	3,628	2,944	2,443	2,410	5,024				1909	67	1,034	3,205	727	1,638	3,027											
	1909	6	1,172	291	768	652	1,536			Marble and stone work.....	1919	17	177	749	262	375	771											
Clothing, men's, including shirts.	1919	168	4,660	1,104	5,608	17,938	32,404				1914	24	455	1,166	366	426	1,037											
	1914	181	4,758	1,043	2,633	7,687	14,080				1909	31	581	1,146	459	453	1,152											
	1909	196	4,479	1,086	2,286	7,756	14,535			Mattresses and spring beds, not elsewhere specified.	1919	22	381	616	455	1,778	2,973											
Clothing, women's.....	1919	173	3,882	1,010	3,065	12,105	20,656				1914	21	531	598	263	1,115	1,887											
	1914	189	3,964	686	2,144	5,126	9,809				1909	28	496	383	248	1,048	1,770											
	1909	122	3,540	491	1,649	4,306	7,842			Millinery and lace goods, not elsewhere specified.	1919	51	896	190	796	1,948	3,763											
Coffee and spice, roasting and grinding.	1919	14	481	1,132	449	13,418	16,239				1914	59	1,415	283	601	2,014	3,564											
	1914	17	446	1,114	252	6,124	8,463				1909	65	1,454	311	580	1,931	3,425											
	1909	11	348	786	188	3,651	5,308			Mineral and soda waters.....	1919	29	198	319	243	1,086	2,492											
Confectionery and ice cream.	1919	68	3,258	6,485	5,792	26,418	40,097				1914	26	137	228	103	539	1,204											
	1914	72	5,114	4,273	2,042	9,108	15,246				1909	25	160	199	112	415	995											
Copper, tin, and sheet-iron products. <sup>3</sup>	1919	61	1,457	1,428	1,674	3,640	8,177			Musical instruments <sup>6</sup> and materials, not elsewhere specified.	1919	14	187	104	192	207	607											
	1914	75	1,397	946	904	2,106	4,144				1914	15	245	106	184	137	333											
	1909	85	1,702	845	990	1,870	3,925			Musical instruments, pianos and organs and materials.	1919	10	1,231	1,531	1,547	2,111	4,863											
Cotton goods.....	1919	9	874	2,968	715	2,527	4,408				1914	15	1,299	1,312	908	1,581	3,276											
	1914	5	747	2,408	318	694	1,228				1909	21	1,410	917	958	1,468	3,428											
Dyestuffs and extracts— natural.	1919	11	57	276	75	814	1,323			Paint and varnish.....	1919	10	135	388	151	1,096	2,144											
	1914	10	61	183	45	516	717				1914	11	119	234	79	637	1,055											
	1909	6	27	119	16	161	243				1909	12	142	484	80	617	1,065											
Electrical machinery, appa- ratus, and supplies.	1919	32	2,525	1,936	2,460	4,344	10,671			Paper goods, not elsewhere specified.	1919	6	161	412	139	626	898											
	1914	30	1,481	1,829	914	1,414	3,635				1914	12	342	223	144	337	659											
	1909	27	1,380	1,502	700	1,003	3,028			Patent medicines and com- pounds and druggists' preparations. <sup>7</sup>	1919	66	1,676	743	1,290	5,700	12,222											
Fancy articles, not elsewhere specified.	1919	15	150	43	135	356	871				1914	68	768	431	360	2,120	4,623											
	1914	7	52	37	29	52	114				1909	69	614	280	282	1,638	3,966											
Flavoring extracts.....	1919	13	67	43	65	636	1,209			Photo-engraving.....	1919	16	357	132	503	189	1,297											
	1914	9	52	42	28	311	641				1914	19	432	269	399	145	1,002											
	1909	15	55	19	27	250	572			Printing and publishing <sup>8</sup> ....	1919	539	8,214	9,149	10,240	20,772	62,523											
Food preparations, not else- where specified.	1919	29	502	1,100	460	3,372	5,667				1914	567	7,972	9,124	6,375	9,781	33,249											
	1914	21	257	556	160	1,058	2,500				1909	564	8,257	6,248	6,033	6,962	28,021											
	1909	24	210	382	129	686	1,540																					

<sup>1</sup> Includes "canning and preserving, fish"; and "pickles, preserves, and sauces."<sup>2</sup> Excludes statistics for 2 establishments manufacturing carriage and wagon materials, to avoid disclosure of individual operations.<sup>3</sup> Includes "tinware, not elsewhere specified."<sup>4</sup> Includes "automobile repairing"; "gas machines and gas and water meters"; "hardware"; "iron and steel, tempering and welding"; "machine tools"; "plumb-ers' supplies, not elsewhere specified"; "steam fittings and steam and hot-water heating apparatus"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts" in all years; and "engines, steam, gas, and water"; "hardware, saddlery"; and "pumps, steam," in 1914 and 1909.<sup>5</sup> Includes "pocketbooks"; and "trunks and valises" in all years; and "saddlery and harness" in 1914 and 1909.<sup>6</sup> Includes "boxes," wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with saw mills"; and "window and door screens and weather strips."<sup>7</sup> Includes "perfumery and cosmetics."<sup>8</sup> Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."



TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
BOSTON—Con.								CAMBRIDGE—Con.							
Rubber tires, tubes, and rub- ber goods, not elsewhere specified.	1919	8	401	793	351	742	1,545	Bread and other bakery products.	1919	42	1,245	1,030	1,215	5,279	9,094
	1914	7	276	1,092	151	819	680		1914	40	901	1,171	512	2,071	3,964
	1909	7	149	290	175	274	605		1909	40	801	862	440	1,961	2,962
Screws, machine.	1919	7	149	290	175	274	605	Confectionery and ice cream.	1919	26	1,952	1,997	1,425	6,698	11,460
	1914	7	102	211	71	99	231		1914	21	1,241	1,183	509	2,503	3,808
Signs and advertising novel- ties.	1919	10	230	96	239	255	745	Copper, tin, and sheet-iron products. <sup>2</sup>	1919	12	478	583	571	1,025	2,254
	1914	12	270	136	143	171	465		1914	7	183	203	113	237	588
Slaughtering and meat pack- ing. <sup>1</sup>	1919	22	296	768	409	7,991	9,168		1909	6	200	100	104	274	530
	1914	26	329	625	232	5,211	6,896	Foundry and machine-shop products. <sup>4</sup>	1919	44	3,238	4,800	4,100	6,362	15,045
	1909	24	273	313	172	3,514	4,096		1914	34	1,786	3,386	1,202	1,885	5,332
Soap.	1919	8	44	177	52	573	1,061		1909	25	2,260	3,176	1,430	1,761	4,789
	1914	11	54	95	33	314	441	Furniture.	1919	11	728	809	938	769	2,179
	1909	13	65	80	36	286	455		1914	12	636	556	495	368	1,284
Stationery goods, not else- where specified.	1919	4	180	96	138	637	1,361		1909	13	780	1,202	603	417	1,392
	1914	5	237	105	123	389	666	Instruments, professional and scientific.	1919	3	42	31	38	91	158
	1909	3	86	17	46	91	283		1914	3	31	24	24	43	100
Suspenders, garters, and elastic woven goods.	1919	9	740	263	513	2,190	3,940	Lumber and timber prod- ucts. <sup>5</sup>	1919	6	203	683	245	320	785
	1914	10	855	245	361	1,285	2,322		1914	12	358	1,359	282	691	1,112
Tobacco manufactures.	1919	97	2,052	111	2,444	3,481	8,437		1909	11	345	1,261	232	409	875
	1914	101	2,694	126	2,316	2,738	6,684	Marble and stone work.	1919	8	87	505	132	135	364
	1909	145	2,318	70	1,780	2,046	5,506		1914	10	173	607	140	118	380
Tools, not elsewhere specified	1919	16	539	1,007	631	660	2,181		1909	12	302	887	242	183	605
	1914	12	321	494	201	458	781	Printing and publishing. <sup>6</sup>	1919	47	2,101	1,970	2,258	3,717	10,010
	1909	11	235	601	138	384	798		1914	45	2,159	1,804	1,477	1,552	4,020
All other industries.	1919	469	15,595	31,804	16,522	104,420	150,813		1909	41	1,993	1,442	1,185	1,280	3,368
	1914	508	12,049	22,954	7,553	38,537	62,688	All other industries.	1919	134	11,844	16,768	11,474	44,110	75,069
	1909	758	23,140	33,675	11,924	46,809	79,781		1914	127	8,786	16,782	5,254	21,758	36,307
									1909	123	8,287	12,272	4,024	17,177	29,426
BROCKTON.								FALL RIVER.							
All industries.	1919	217	18,059	13,205	20,896	74,713	117,855	All industries.	1919	293	37,015	145,646	30,514	96,180	163,246
	1914	243	16,246	10,477	10,567	31,664	51,259		1914	315	36,834	139,582	16,131	87,161	64,663
	1909	196	14,737	9,773	9,122	28,565	45,972		1909	288	37,139	122,061	15,399	35,624	64,146
Blacking, stains, and dress- ings.	1919	13	43	57	52	447	838	Bread and other bakery products.	1919	68	254	195	283	1,202	1,875
	1914	16	43	32	31	194	430		1914	88	197	86	127	610	1,017
	1909	12	31	45	23	166	328		1909	74	217	19	127	479	796
Boots and shoes, including out stock and findings.	1919	92	15,089	8,495	17,611	67,040	101,598	Confectionery and ice cream.	1919	8	28	67	87	168	271
	1914	84	13,765	7,106	8,978	28,455	44,122		1914	12	23	25	13	74	124
	1909	75	12,503	6,802	7,761	25,384	39,293	Copper, tin, and sheet-iron work.	1919	10	27	11	38	56	95
Boxes, set-up paper boxes and cartons.	1919	4	182	50	142	239	537		1914	8	36	.....	24	22	75
	1914	5	174	141	77	114	233	Cotton goods, including cot- ton small wares.	1919	54	32,288	135,872	26,319	81,588	137,731
	1909	5	214	148	89	140	329		1914	51	30,758	124,347	13,189	29,659	49,995
Bread and other bakery products.	1919	10	84	119	108	507	810		1909	45	30,407	110,975	12,106	27,563	48,576
	1914	21	252	248	134	539	1,070	Foundry and machine-shop products. <sup>7</sup>	1919	31	925	1,377	906	1,833	3,907
	1909	11	223	198	126	453	892		1914	27	570	627	342	453	1,064
Cutlery and edge tools.	1919	7	66	96	91	69	281		1909	33	769	629	373	606	1,342
	1914	9	72	83	62	32	135	Lumber and timber prod- ucts. <sup>8</sup>	1919	4	47	427	55	160	271
	1909	8	102	90	85	47	204		1914	6	80	486	52	98	192
Foundry and machine-shop products. <sup>3</sup>	1919	9	276	255	329	254	929		1909	8	68	648	38	206	318
	1914	15	243	230	178	127	431	Marble and stone work.	1919	10	50	220	61	34	124
	1909	9	162	278	119	116	391		1914	10	45	374	32	27	76
Lasts.	1919	6	365	631	470	498	1,857		1909	12	103	549	81	24	158
	1914	7	241	600	181	215	584	Printing and publishing.	1919	22	196	149	191	166	570
	1909	6	170	313	124	183	539		1914	22	195	195	163	96	396
Models and patterns, not in- cluding paper patterns.	1919	5	58	27	70	31	214		1909	21	190	171	142	95	365
	1914	4	38	18	23	11	76	Sausage, not made in slaugh- tering and meat-packing establishments.	1919	7	27	47	30	268	338
	1909	70	1,332	1,899	805	2,076	3,996		1914	8	21	27	16	145	210
All other industries.	1919	71	1,896	3,475	2,023	5,628	10,791		1909	7	13	10	6	76	97
	1914	82	1,418	2,019	893	1,977	4,178	All other industries.	1919	79	3,173	7,281	2,594	10,725	18,064
	1909	70	1,332	1,899	805	2,076	3,996		1914	83	4,909	13,415	2,183	5,977	11,514
									1909	88	5,382	9,060	2,466	6,476	12,494
CAMBRIDGE.								HAVERHILL. <sup>9</sup>							
All industries.	1919	339	22,550	28,421	22,842	69,127	127,865	All industries.	1919	405	15,783	12,747	18,352	57,218	96,277
	1914	316	16,749	26,227	10,217	31,535	57,484		1914	368	13,281	10,839	8,614	26,512	42,409
	1909	275	15,260	21,372	8,365	23,566	44,227		1909	346	11,689	7,930	6,668	21,686	35,377
Boxes, set-up paper boxes.	1919	6	632	236	446	621	1,447								
	1914	5	495	162	209	249	599								
	1909	4	292	110	105	104	280								

<sup>1</sup> Includes "sausage, not made in slaughtering and meat-packing establishments."<sup>2</sup> Includes "automobile repairing" in 1914.<sup>3</sup> Includes "stamped ware, not elsewhere specified" in all years; and "tinware, not elsewhere specified," in 1919.<sup>4</sup> Includes "automobile repairing"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "pumps, steam"; "steam fittings and steam and hot-water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills."<sup>5</sup> Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens."<sup>6</sup> Includes "bookbinding and blank-book making."<sup>7</sup> Includes "iron and steel, welding," and "textile machinery and parts."<sup>8</sup> Includes "lumber, planing-mill products, not including planing mills connected with sawmills," in all years; and "boxes, wooden packing, except cigar boxes," in 1914 and 1909.<sup>9</sup> Comparative statistics by industries for 1914 and 1909 not available.



TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mater- ials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mater- ials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
<b>HOLYOKE</b> ..... All industries.	1919 1914 1909	176 222 187	17,773 17,493 16,513	76,893 74,369 60,269	17,318 8,994 8,076	51,160 25,362 22,801	93,427 44,041 40,097	<b>LOWELL</b> ..... All industries.	1919 1914 1909	291 300 319	30,111 29,904 32,393	85,556 83,817 71,562	29,865 14,002 14,022	76,993 33,104 32,455	137,802 56,049 59,688
Bread and other bakery products.	1919 1914 1909	26 33 27	120 124 108	145 40 24	139 88 76	587 313 275	951 561 464	Belting, leather.....	1919 1914	3 3	17 10	9 8	21 11	114 57	105 78
Copper, tin, and sheet-iron work.	1919 1914	8 4	75 107	133 23	94 59	189 131	368 249	Boots and shoes, not includ- ing rubber boots and shoes.	1919 1914 1909	5 9 7	674 1,485 1,259	476 800 618	585 684 562	1,753 2,855 1,682	3,138 3,549 2,650
Foundry and machine-shop products. <sup>1</sup>	1919 1914 1909	26 24 17	1,354 905 1,002	3,525 2,884 1,455	1,604 594 621	2,685 890 843	5,524 2,197 2,095	Bread and other bakery products.	1919 1914 1909	57 57 46	218 221 166	169 92 58	240 146 103	1,132 415 482	1,724 734 750
Lumber, planing-mill prod- ucts, not including planing mills connected with saw- mills.	1919 1914 1909	3 4 4	162 182 131	431 300 410	188 137 71	902 366 177	1,350 641 362	Confectionery and ice cream.	1919 1914	10 7	28 8	142 18	37 5	185 34	297 57
Paper and wood pulp.....	1919 1914 1909	20 21 23	3,628 4,684 4,480	37,776 42,582 39,069	4,044 2,487 2,211	13,012 8,272 7,244	21,376 18,179 12,305	Copper, tin, and sheet-iron work.	1919 1914	6 6	39 30	5 5	48 19	56 21	168 59
Paper goods, not elsewhere specified.	1919 1914 1909	5 5 4	508 490 417	1,407 1,033 740	507 282 204	2,250 1,258 947	3,645 1,932 1,424	Cotton goods, including cot- ton small wares.	1919 1914 1909	13 12 11	12,555 13,142 13,833	54,348 53,133 41,955	11,707 5,768 5,663	36,216 14,333 13,943	60,831 23,178 24,744
Printing and publishing <sup>2</sup> ....	1919 1914 1909	22 31 27	945 793 736	690 368 371	856 479 371	1,406 473 633	3,453 1,697 1,450	Dyeing and finishing textiles, exclusive of that done in textile mills.	1919 1914	5 8	947 705	3,020 1,227	998 390	3,023 855	5,370 1,440
Sausage, not made in slaugh- tering and meat-packing establishments.	1919 1914	4 7	11 9	27 26	12 7	98 49	127 74	Foundry and machine-shop products. <sup>7</sup>	1919 1914 1909	34 26 35	2,762 1,841 2,599	3,640 2,005 2,706	3,256 1,122 1,418	4,245 1,283 1,822	9,872 2,788 4,363
Stationery goods, not else- where specified.	1919 1914 1909	8 7 7	1,011 855 706	519 582 366	784 334 297	2,199 924 1,094	4,491 1,891 1,930	Lumber and timber prod- ucts. <sup>8</sup>	1919 1914 1909	13 14 17	382 343 410	1,050 1,938 1,637	377 196 211	1,503 776 784	2,377 1,123 1,066
Tobacco manufactures.....	1919 1914 1909	7 13 17	34 64 73	1 3	36 42 44	50 40 38	124 118 128	Patent medicines and com- pounds. <sup>9</sup>	1919 1914 1909	5 8 7	145 160 133	621 533 496	127 92 95	603 321 349	1,513 795 1,130
All other industries.....	1919 1914 1909	52 73 61	9,925 9,474 8,860	32,239 26,488 17,834	9,054 4,460 4,181	27,782 12,646 11,050	52,018 21,502 19,939	Printing and publishing <sup>10</sup> ...	1919 1914 1909	22 24 26	198 205 250	313 595 349	269 191 178	320 298 299	1,034 768 796
<b>LAWRENCE</b> ..... All industries.	1919 1914 1909	194 221 162	30,319 31,043 30,542	124,155 93,572 73,066	32,362 15,778 13,757	110,959 45,152 46,488	183,449 73,178 70,993	Woolen and worsted goods..	1919 1914 1909	13 9 11	1,925 1,916 2,807	4,845 4,202 5,807	1,898 931 1,210	5,674 2,436 3,072	9,798 3,924 5,522
Bread and other bakery products.	1919 1914 1909	48 59 26	158 171 143	198 183 129	200 108 89	890 476 367	1,409 800 572	All other industries.....	1919 1914 1909	105 122 159	10,223 9,778 10,826	16,312 18,603 17,936	10,302 4,427 4,592	22,269 9,920 9,472	41,515 17,556 18,697
Cotton goods.....	1919 1914 1909	6 4 6	3,601 4,189 4,914	25,811 16,667 16,172	3,479 1,833 2,030	12,806 4,656 3,918	20,937 7,143 6,826	<b>LYNN</b> ..... All industries.	1919 1914 1909	442 429 431	27,355 25,339 27,368	29,132 22,747 17,089	32,992 15,593 15,066	85,009 38,895 41,361	160,906 69,783 71,503
Foundry and machine-shop products. <sup>1</sup>	1919 1914 1909	25 21 27	1,007 730 1,012	1,843 1,508 1,238	1,177 459 578	1,813 691 727	4,295 1,443 1,720	Blacking, stains, and dress- ings.	1919 1914 1909	11 10 14	77 62 44	38 78 76	94 43 31	508 295 271	943 525 537
Lumber and timber prod- ucts <sup>4</sup>	1919 1914 1909	3 5 5	159 410 402	418 1,130 1,170	177 222 230	646 808 1,037	1,081 1,139 1,390	Boots and shoes, including cut stock and findings.	1919 1914 1909	201 194 207	13,881 13,779 10,349	4,621 4,161 5,488	16,736 8,792 9,532	60,992 28,006 29,148	96,668 43,891 46,660
Printing and publishing <sup>5</sup> ....	1919 1914 1909	19 21 18	138 121 126	178 196 160	173 94 89	142 82 66	504 285 254	Boxes, set-up paper boxes...	1919 1914 1909	4 5 6	114 353 348	46 507 265	89 177 169	215 411 404	505 736 730
Sausage, not made in slaugh- tering and meat-packing establishments.	1919 1914	6 11	13 26	63 103	13 17	121 92	168 135	Bread and other bakery products.	1919 1914 1909	43 39 37	176 206 165	139 99 42	199 154 111	1,074 446 443	1,632 784 681
Woolen and worsted goods..	1919 1914 1909	11 11 15	19,101 20,565 20,203	78,021 61,810 44,638	20,027 10,457 8,899	79,361 32,597 33,657	125,761 51,684 58,536	Confectionery and ice cream..	1919 1914	7 4	38 17	99 73	39 10	131 54	251 82
All other industries.....	1919 1914 1909	76 89 65	6,142 4,831 3,742	17,618 12,075 9,553	7,116 2,538 1,872	15,180 5,750 6,666	29,204 10,649 10,685	Foundry and machine-shop products. <sup>11</sup>	1919 1914 1909	23 28 26	375 319 411	385 275 370	441 238 254	448 153 178	1,288 594 800

<sup>1</sup> Includes "automobile repairing"; "iron and steel, welding"; "pumps, steam"; "steam fittings and steam and hot-water heating apparatus" in all years; and "structural ironwork, not made in steel works or rolling mills," in 1914 and 1909.

<sup>2</sup> Includes "bookbinding and blank-book making" in all years; and "engraving, steel and copper plate, including plate printing"; and "lithographing" in 1914 and 1909.

<sup>3</sup> Includes "iron and steel, welding"; "pumps, steam"; "steam fittings and steam and hot-water heating apparatus"; and "textile machinery and parts" in all years; "automobile repairing" in 1919; and "structural ironwork, not made in steel works or rolling mills," in 1914 and 1909.

<sup>4</sup> Includes "boxes, wooden packing, except cigar boxes"; and "lumber, planing-mill products, not including planing mills connected with sawmills."

<sup>5</sup> Includes "bookbinding and blank-book making" in 1914.

<sup>6</sup> Excludes statistics for 1 establishment manufacturing woolen goods, to avoid disclosure of individual operations.

<sup>7</sup> Includes "iron and steel, welding," and "textile machinery and parts" in all years; and "automobile repairing" and "structural ironwork, not made in steel works or rolling mills," in 1919.

<sup>8</sup> Includes "boxes, wooden packing, except cigar boxes," and "lumber, planing-mill products, not including planing mills connected with sawmills."

<sup>9</sup> Includes "perfumery and cosmetics" in 1914.

<sup>10</sup> Includes "bookbinding and blank-book making" in all years, and "engraving, steel and copper plate, including plate printing," in 1919.

<sup>11</sup> Includes "automobile repairing" in all years; and "engines, steam, gas, and water," and "hardware" in 1914 and 1909.



TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Census year.	Number of establishments	Wage earners (average number).	Primary horse-power.	Expressed in thousands of dollars.			INDUSTRY AND CITY.	Census year.	Number of establishments	Wage earners (average number).	Primary horse-power.	Expressed in thousands of dollars.		
					Wages.	Cost of materials.	Value of products.						Wages.	Cost of materials.	Value of products.
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
LYNN—Con.								SOMERVILLE—Con.							
Lasts.....	1919	8	347	619	400	441	1,479	Lumber, planing-mill products, not including planing mills connected with saw-mills.	1919	3	35	238	46	49	146
	1914	8	234	447	153	105	389		1914	5	59	250	46	83	168
	1909	5	81	187	61	75	266	Printing and publishing.....	1919	16	35	40	38	41	144
Leather, tanned, curried, and finished.	1919	11	1,041	2,301	1,270	10,602	15,824		1914	17	44	37	39	22	114
	1914	9	633	1,450	317	3,020	3,849		1909	14	43	32	24	17	77
	1909	8	1,062	1,185	457	4,009	5,094	Slaughtering and meat packing. <sup>1</sup>	1919	5	3,290	6,011	4,113	78,618	84,740
Lumber, planing-mill products, not including planing mills connected with saw-mills.	1919	5	21	158	35	54	124		1914	6	2,309	4,198	1,420	82,424	89,335
	1914	5	87	285	61	134	277		1909	7	2,292	3,308	1,236	27,866	31,270
	1909	6	129	363	82	188	330	All other industries.....	1919	73	2,315	8,060	2,337	0,801	11,860
Mineral and carbonated waters.	1919	4	23	36	22	94	179		1914	67	2,689	4,939	1,625	3,314	6,165
	1914	4	21	17	16	25	67		1909	59	2,731	4,213	1,496	3,676	6,714
Models and patterns, not including paper patterns.	1919	12	43	46	67	27	196	<b>SPRINGFIELD</b>	1919	401	18,429	31,624	19,706	47,803	98,333
	1914	10	41	30	33	14	94	All industries.	1914	395	14,240	24,418	9,850	21,915	44,429
Printing, job.....	1919	20	138	152	127	177	501		1909	346	11,856	17,744	6,807	14,363	31,773
	1914	21	145	135	83	124	345	Automobile bodies and parts.	1919	6	434	127	556	345	1,780
	1909	21	146	104	81	118	296		1914	6	173	107	147	149	385
All other industries.....	1919	93	11,081	20,492	13,473	10,186	41,316	Brass and bronze products...	1919	5	694	2,260	906	1,293	3,468
	1914	92	9,442	15,190	5,516	5,908	18,150		1914	6	176	145	117	279	480
	1909	101	8,633	9,009	4,888	6,527	16,109		1909	7	104	129	104	246	431
<b>NEW BEDFORD</b>	1919	267	41,630	150,248	40,012	122,571	210,773	Bread and other bakery products.	1919	58	441	772	481	2,898	4,347
All industries.	1914	233	33,343	112,151	16,568	37,574	65,575		1914	46	266	356	191	756	1,414
	1909	207	26,566	76,147	12,598	28,564	53,238		1909	27	127	52	83	356	611
Bread and other bakery products.	1919	55	417	257	431	1,449	2,409	Confectionery and ice cream..	1919	12	369	501	287	1,666	2,648
	1914	58	349	247	186	741	1,219		1914	10	346	378	160	733	1,229
	1909	44	289	99	160	548	1,023	Copper, tin, and sheet-iron work.	1919	13	50	18	57	103	224
Confectionery and ice cream..	1919	9	56	260	49	309	445		1914	9	57	10	46	49	132
	1914	6	22	53	16	137	195	Electrical machinery, apparatus, and supplies.	1919	10	1,438	1,219	1,674	2,391	7,277
Cotton goods.....	1919	31	35,206	134,086	33,186	104,654	177,059		1914	7	545	869	533	3,118	4,015
	1914	29	28,719	102,918	13,716	30,318	51,766		1909	5	154	198	82	68	191
	1909	22	22,141	68,156	10,115	23,290	42,505	Fancy articles, not elsewhere specified.	1919	3	48	1	29	37	107
Foundry and machine-shop products. <sup>1</sup>	1919	39	496	605	542	655	1,707		1914	4	74	3	29	43	114
	1914	18	302	591	190	229	522	Foundry and machine-shop products. <sup>2</sup>	1919	52	2,033	3,173	2,778	2,574	9,419
	1909	16	276	1,019	176	192	454		1914	50	1,485	3,150	1,955	1,090	3,404
Lumber, planing-mill products, not including planing mills connected with saw-mills.	1919	6	65	666	66	185	296		1909	39	1,554	3,488	973	1,027	3,006
	1914	6	72	375	49	135	212	Mattresses and spring beds, not elsewhere specified.	1919	3	22	43	20	75	120
	1909	8	171	769	93	232	412		1914	6	66	234	34	102	177
Marble and stone work.....	1919	6	26	88	29	18	90	Mineral and carbonated waters.	1919	6	35	67	31	106	185
	1914	11	23	55	27	13	59		1914	8	18	17	13	27	67
Mineral and carbonated waters.	1919	7	41	25	42	229	385		1909	6	12	12	7	19	51
	1914	8	28	44	16	42	86	Models and patterns, not including paper patterns.	1919	6	46	71	67	16	124
	1909	3	20	12	14	29	53		1914	5	28	81	26	4	50
Printing and publishing <sup>2</sup> ....	1919	25	216	501	227	288	866	Paper goods, not elsewhere specified.	1919	5	62	403	71	435	761
	1914	20	273	511	194	152	537		1914	6	395	503	200	612	1,061
	1909	17	265	199	171	129	483	Printing and publishing <sup>3</sup> ....	1919	53	792	1,656	879	1,593	4,666
Sausage, not made in slaughtering and meat-packing establishments.	1919	7	31	107	39	474	573		1914	59	1,166	1,754	813	1,037	3,757
	1914	6	33	76	21	256	311		1909	51	1,025	1,632	666	1,006	3,901
All other industries.....	1919	82	5,076	13,653	5,401	14,310	26,943	Tobacco, cigars.....	1919	14	368	38	409	543	1,250
	1914	71	3,522	7,281	2,143	5,551	10,668		1914	26	487	11	343	414	920
	1909	97	3,404	5,904	1,869	4,144	8,308		1909	29	408	6	277	256	720
<b>SOMERVILLE</b>	1919	140	6,111	15,293	7,022	87,097	99,559	Tools, not elsewhere specified	1919	8	363	608	368	249	928
All industries.	1914	144	5,429	9,707	3,340	36,497	43,971		1914	5	339	768	228	127	784
	1909	114	5,280	7,680	2,870	31,923	38,687		1909	4	287	648	185	154	523
Bread and other bakery products.	1919	29	279	136	287	1,015	1,653	All other industries.....	1919	147	11,234	20,667	11,213	33,539	61,049
	1914	31	172	128	120	385	668		1914	142	8,599	16,082	5,409	13,366	26,440
	1909	28	120	55	68	269	429		1909	173	8,008	11,556	4,469	11,206	22,233
Confectionery and ice cream..	1919	7	53	71	79	341	493								
	1914	8	77	69	47	181	311								
Foundry and machine-shop products. <sup>3</sup>	1919	7	104	137	122	232	523								
	1914	10	79	86	52	88	210								
	1909	6	94	72	46	95	197								

<sup>1</sup> Includes "automobile repairing"; "iron and steel, welding"; "machine tools"; "steam fittings and steam and hot-water heating apparatus"; and "textile machinery and parts."

<sup>2</sup> Includes "bookbinding and blank-book making" in 1914 and 1909.

<sup>3</sup> Includes "automobile repairing"; "hardware"; and "textile machinery and parts" in all years; and "steam fittings and steam and hot-water heating apparatus" in 1919.

<sup>4</sup> Includes "sausage, not made in slaughtering and meat-packing establishments."

<sup>5</sup> Includes "automobile repairing"; "iron and steel, welding"; "machine tools"; "plumbers' supplies, not elsewhere specified"; "steam fittings and steam and hot water heating apparatus"; and "structural ironwork, not made in steel works or rolling mills," in all years; and "hardware" in 1914 and 1909.

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



## MANUFACTURES—MASSACHUSETTS.

TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	INDUSTRY AND CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.															
WORCESTER.....	1919	618	38,673	94,712	44,440	106,181	208,706	WORCESTER—Con.							
All industries.	1914	606	29,452	71,984	17,633	45,794	82,829	Envelopes.....	1919	7	1,267	807	1,117	3,772	6,469
	1909	580	28,221	53,405	15,295	42,601	77,148		1914	6	1,182	773	1,030	1,603	2,863
Boots and shoes, including cut stock and findings.	1919	14	1,361	619	1,210	4,662	7,827	Foundry and machine-shop products. <sup>3</sup>	1919	101	8,399	15,589	10,556	14,156	37,709
	1914	12	967	444	528	1,909	2,773		1914	89	6,038	10,916	4,020	4,543	12,226
	1909	11	829	399	469	1,466	2,414		1909	89	6,503	6,891	3,841	4,793	13,219
Brass and bronze products...	1919	4	23	25	38	121	192	Furniture.....	1919	4	36	70	40	75	146
	1914	4	16	16	13	36	57		1914	3	63	60	45	32	104
Bread and other bakery products.	1919	51	368	388	386	1,920	2,866	Lumber and timber prod- ucts. <sup>4</sup>	1919	12	331	1,342	388	753	1,509
	1914	71	397	330	232	917	1,508		1914	13	541	1,702	382	699	1,234
	1909	67	413	160	207	877	1,472		1909	12	320	1,154	195	476	814
Carriages and wagons, in- cluding repairs.	1919	3	35	66	46	85	171	Marble and stone work.....	1919	8	17	54	23	41	120
	1914	10	78	128	58	57	170		1914	7	140	836	106	59	262
	1909	12	71	63	51	62	160		1909	10	227	862	218	93	383
Clothing, men's.....	1919	13	174	92	188	717	1,238	Mineral and carbonated waters.	1919	7	22	93	27	48	117
	1914	13	240	70	110	405	668		1914	7	39	58	31	62	141
	1909	16	288	56	111	302	556		1909	7	53	49	22	35	83
Clothing, women's.....	1919	21	545	224	392	1,694	2,702	Models and patterns, not in- cluding paper patterns.	1919	7	43	65	70	20	134
	1914	19	834	224	315	924	1,652		1914	4	24	41	19	7	38
	1909	18	1,060	219	371	1,081	1,942	Musical instruments, piano and organ materials.	1919	5	712	535	786	1,014	2,260
Confectionery and ice cream.	1919	12	59	132	67	444	695		1914	4	351	688	214	246	596
	1914	13	46	42	33	124	239	Printing and publishing <sup>5</sup> ....	1919	59	790	687	852	942	3,328
Copper, tin, and sheet-iron products. <sup>4</sup>	1919	17	441	583	531	702	1,757		1914	59	690	939	451	448	1,629
	1914	17	518	1,317	318	472	1,191		1909	53	585	384	392	371	1,233
	1909	10	195	247	113	166	411	Sausage, not made in slaugh- tering and meat-packing establishments.	1919	4	26	81	31	371	458
Corsets.....	1919	7	1,228	624	843	2,388	5,235		1914	4	39	77	29	226	277
	1914	7	1,711	626	641	1,394	3,434	Tobacco, cigars.....	1919	9	66	6	71	104	225
Cotton goods.....	1919	5	486	1,200	434	3,819	5,864		1914	18	83	5	51	72	163
	1914	4	171	283	99	465	706		1909	20	65	2	37	42	117
	1909	4	254	425	98	680	883	Wirework, not elsewhere specified.	1919	6	552	468	481	559	1,751
Cutlery and tools, not else- where specified.	1919	23	1,030	1,728	1,169	1,409	4,153		1914	9	1,066	1,280	554	1,237	2,604
	1914	12	337	1,100	276	198	657	Wood, turned and carved....	1919	5	53	111	47	32	109
	1909	11	409	1,104	241	214	569		1914	4	16	60	6	6	18
Dyeing and finishing tex- tiles, exclusive of that done in textile mills.	1919	3	206	310	158	530	1,010	Woolen and worsted goods..	1919	13	1,487	3,807	1,404	4,839	8,865
	1914	4	260	685	127	400	748		1914	12	1,583	3,529	692	2,292	3,585
	1909	3	144	325	74	146	296		1909	15	1,722	3,990	689	3,200	4,460
Electrical machinery, appa- ratus, and supplies.	1919	10	685	402	676	1,780	3,111	All other industries.....	1919	180	18,116	64,390	22,202	59,134	108,374
	1914	4	118	49	49	138	271		1914	172	11,871	45,615	7,696	26,751	42,970
Electroplating.....	1919	8	115	214	117	50	305		1909	222	15,088	37,075	8,166	28,537	48,136
	1914	5	33	91	18	12	45								

## CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

<b>ADAMS.....</b>	1919	32	3,974	14,120	3,524	8,140	15,077	<b>CHICOPEE.....</b>	1919	60	10,068	30,523	12,592	46,458	89,773
	1914	35	3,930	12,673	1,793	3,797	6,530		1914	62	8,426	22,907	5,131	17,118	28,899
	1909	31	3,991	10,173	1,719	3,082	6,410		1909	58	7,280	18,738	3,696	10,952	19,219
<b>AMESBURY.....</b>	1919	44	3,173	4,003	3,847	9,417	18,310	<b>CLINTON.....</b>	1919	33	4,155	13,921	4,088	8,270	15,180
	1914	59	1,451	1,641	1,009	1,805	3,551		1914	36	4,064	9,931	1,894	3,610	6,735
<b>ARLINGTON.....</b>	1919	27	228	849	238	423	1,006		1909	39	4,123	10,882	1,872	4,216	7,846
	1914	19	246	542	185	277	641	<b>DEDHAM.....</b>	1919	20	463	2,033	419	814	1,738
	1909	19	283	851	177	311	695		1914	15	256	1,090	120	211	428
<b>ATTLEBORO.....</b>	1919	144	6,763	7,789	7,263	18,570	34,472	<b>EVERETT.....</b>	1919	104	4,523	17,409	4,635	19,059	35,776
	1914	151	6,058	7,488	3,518	7,379	13,947		1914	85	3,226	10,908	2,047	6,511	13,219
	1909	128	6,429	5,991	3,763	6,813	15,150		1909	62	2,680	7,816	1,508	4,506	8,747
<b>BEVERLY.....</b>	1919	70	6,495	5,190	8,419	8,738	21,830	<b>FITCHBURG.....</b>	1919	121	9,907	45,988	10,520	36,055	58,165
	1914	67	4,641	4,659	3,356	3,166	8,774		1914	137	8,837	38,371	4,815	15,067	23,983
	1909	63	4,487	3,778	2,929	3,291	8,653		1909	122	8,497	28,754	4,231	14,442	23,252
<b>BROOKLINE.....</b>	1919	32	484	203	484	1,042	2,243	<b>FRAMINGHAM.....</b>	1919	59	4,362	6,940	4,138	10,350	18,842
	1914	21	335	323	239	218	659		1914	49	3,982	6,058	2,257	4,447	8,727
	1909	16	340	339	194	196	532		1909	27	3,069	4,486	1,446	3,411	6,917
<b>CHELSEA.....</b>	1919	123	6,580	13,797	6,924	16,703	32,537	<b>GARDNER.....</b>	1919	73	4,036	6,195	3,936	5,186	13,600
	1914	123	6,241	7,031	3,854	9,415	16,971		1914	64	3,964	5,046	2,084	3,079	7,450
	1909	110	5,954	8,339	3,326	10,569	17,002		1909	52	3,617	5,031	1,774	2,833	6,485

<sup>1</sup> Excludes statistics for 2 establishments manufacturing boot and shoe findings, to avoid disclosure of individual operations.

<sup>2</sup> Includes "stamped ware, not elsewhere specified."

<sup>3</sup> Includes "automobile repairing"; "engines, steam, gas, and water"; "gas and water meters"; "hardware"; "iron and steel, tempering and welding"; "machine tools"; "structural ironwork, not made in steel works or rolling mills"; and "textile machinery and parts" in all years; "steam fittings and steam and hot-water heating apparatus" in 1919 and 1909; and "plumbers' supplies, not elsewhere specified," in 1914 and 1909.

<sup>4</sup> Includes "boxes, wooden packing, except cigar boxes"; "lumber, planing-mill products, not including planing mills connected with sawmills"; and "window and door screens."

<sup>5</sup> Includes "bookbinding and blank-book making"; "engraving, steel and copper plate, including plate printing"; and "lithographing."



## MANUFACTURES—MASSACHUSETTS.

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TABLE 39.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND FOR CITIES: 1919, 1914, AND 1909—Continued.

CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.	CITY.	Cen- sus year.	Num- ber of estab- lish- ments	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands of dollars.								Expressed in thousands of dollars.		
					CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED—Continued.										
GLOUCESTER.....	1919	90	2,684	2,943	2,614	12,709	18,804	PLYMOUTH.....	1919	31	2,971	10,872	3,005	21,497	31,320
	1914	87	2,814	2,682	1,337	5,590	8,534		1914	37	2,845	9,229	1,481	10,123	18,905
	1909	102	2,181	2,427	1,042	4,770	7,753		1909	32	2,912	6,239	1,416	8,475	11,618
GREENFIELD.....	1919	53	2,750	4,914	3,110	2,840	9,481	QUINCY.....	1919	162	19,653	19,348	34,880	24,175	68,535
	1914	50	1,602	2,544	877	1,422	3,527		1914	177	5,733	10,153	4,584	5,083	12,097
	1909	47	1,251	2,327	701	1,034	2,801		1909	183	5,492	9,147	3,434	3,844	10,505
LEOMINSTER.....	1919	92	5,793	7,696	5,519	13,844	24,929	REVERE.....	1919	31	126	738	155	449	767
	1914	89	4,929	6,408	2,574	5,410	10,838		1914	27	80	675	69	220	360
	1909	94	5,601	5,890	2,794	5,576	10,531		1909	14	101	548	54	292	407
MALDEN.....	1919	108	4,723	7,425	4,276	9,645	22,078	SALEM.....	1919	153	5,672	13,504	5,904	16,927	30,438
	1914	92	2,850	3,547	1,477	3,249	8,366		1914	178	5,294	11,802	2,803	8,145	13,653
	1909	86	2,900	3,433	1,346	4,388	8,206		1909	165	6,338	11,436	2,893	8,640	14,576
MARLBOROUGH.....	1919	48	3,798	1,767	4,034	13,155	19,045	SOUTHBRIDGE.....	1919	41	5,329	9,132	4,605	7,432	18,253
	1914	43	3,822	2,332	2,119	6,468	9,984		1914	35	4,332	8,995	2,272	3,283	7,866
	1909	59	4,265	2,721	2,224	6,375	10,382		1909	36	4,037	7,636	1,805	3,125	6,269
MEDFORD.....	1919	54	1,031	2,139	981	3,139	5,666	TAUNTON.....	1919	167	8,981	25,340	9,013	27,787	48,331
	1914	54	559	1,495	355	1,855	2,619		1914	115	7,371	20,967	4,135	8,106	15,886
	1909	40	560	1,123	331	1,250	2,045		1909	146	7,407	19,141	3,834	7,775	15,380
MELROSE.....	1919	27	1,606	1,777	1,327	3,077	6,084	WAKEFIELD.....	1919	32	1,869	1,538	1,921	5,582	8,977
	1914	26	962	1,582	484	1,334	2,499		1914	22	2,008	1,831	1,196	3,144	6,058
	1909	25	1,038	1,535	493	1,589	2,825		1909	23	2,230	1,729	1,046	2,835	5,627
METHUEN.....	1919	33	2,571	10,625	2,405	9,074	14,215	WALTHAM.....	1919	93	8,069	9,823	8,190	6,834	20,879
	1914	25	1,940	6,247	855	2,951	4,461		1914	88	6,465	7,926	4,005	3,815	10,267
	1909	19	1,572	5,772	689	2,226	3,476		1909	80	6,037	7,583	3,288	2,444	7,814
MILFORD.....	1919	48	1,809	2,020	1,819	4,846	8,409	WATERTOWN.....	1919	25	8,420	18,390	9,029	19,734	47,298
	1914	59	1,749	2,137	992	2,298	4,028		1914	30	4,787	4,377	2,855	6,694	14,764
	1909	53	1,801	2,410	945	2,389	4,442		1909	25	4,335	4,862	2,235	6,463	11,546
NATICK.....	1919	49	1,463	2,178	1,382	4,953	7,393	WEBSTER.....	1919	24	3,849	7,543	3,921	18,791	28,401
	1914	38	1,347	1,017	745	3,318	4,566		1914	23	3,246	6,130	1,471	6,983	9,234
	1909								1909	22	3,019	6,454	1,293	6,976	10,027
NEWBURYPORT.....	1919	64	3,960	6,417	3,911	12,680	20,595	WESTFIELD.....	1919	85	3,243	7,253	3,115	6,941	14,279
	1914	54	3,349	4,412	1,656	4,757	8,246		1914	100	3,584	4,046	2,127	3,434	8,420
	1909	74	3,215	3,820	1,642	3,781	6,031		1909	91	3,060	3,541	1,695	2,868	7,362
NEWTON.....	1919	49	2,547	5,536	2,613	8,428	15,525	WEST SPRINGFIELD.....	1919	23	2,791	11,260	3,569	6,355	12,387
	1914	58	2,154	5,576	1,185	3,142	5,823		1914	29	2,209	12,181	1,531	2,410	5,040
	1909	46	2,174	4,153	1,125	3,383	6,279	WEYMOUTH.....	1919	34	2,146	2,352	2,235	11,129	16,837
NORTH ADAMS.....	1919	65	6,023	14,049	5,631	22,286	36,204		1914	40	2,074	2,649	1,195	5,058	8,251
	1914	70	5,288	12,946	2,775	5,697	10,923		1909	41	1,991	1,902	1,110	4,204	6,627
	1909	60	5,414	11,928	2,567	5,576	10,815	WINCHESTER.....	1919	17	1,112	2,188	1,295	6,221	9,698
NORTHAMPTON.....	1919	63	3,532	6,687	3,306	9,351	17,961		1914	19	1,048	1,644	643	3,602	5,159
	1914	75	3,446	7,531	1,960	3,888	8,581	WINTHROP.....	1919	19	61	71	49	203	330
	1909	71	3,150	6,139	1,503	3,163	6,999		1914	10	16	197	11	38	78
PEABODY.....	1919	91	8,013	19,134	10,234	31,316	52,907		1909	7	7	41	5	25	42
	1914	77	5,485	15,764	3,072	12,243	18,442	WOBURN.....	1919	53	2,011	5,942	2,376	7,550	13,980
	1909	74	4,850	9,981	2,638	10,192	15,549		1914	57	1,565	3,880	915	3,351	5,518
PITTSFIELD.....	1919	90	8,570	18,945	10,200	19,718	41,613		1909	59	1,653	3,580	932	3,114	5,408
	1914	84	7,490	15,989	4,683	9,129	22,241								
	1909	71	6,353	8,301	3,718	8,528	15,215								



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.					
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.				
									Maximum month.	Minimum month.									
All industries.....		11,006	812,521	9,451	25,678	32,788	30,768	713,836	De 765,746	Fe 677,294	(*)	(*)	(*)	(*)	(*)	Dollars. 2,947,108,527			
1	Aluminum manufactures.....	4	122	5	6	5	3	103	Oc 125	Ja 76	117	72	43	.....	2	172,464			
2	Ammunition.....	6	2,663	.....	30	73	111	2,449	Ja 9,111	No 1,323	1,778	767	971	30	10	7,128,069			
3	Artificial limbs.....	11	47	8	5	3	3	28	Au 32	Ja 25	25	25	.....	.....	.....	116,930			
4	Artificial stone products.....	34	231	30	12	5	8	176	Jy 210	Fe 127	197	196	1	.....	.....	509,037			
5	Artists' materials.....	3	58	3	3	4	1	47	No 58	My 36	55	24	20	9	2	127,020			
6	Automobile bodies and parts.....	88	4,028	67	147	111	160	3,541	De 3,858	Je 3,152	4,177	3,953	179	44	1	9,661,243			
7	Automobiles.....	8	1,267	2	94	106	76	989	De 1,460	Ja 621	1,460	1,430	24	6	.....	7,271,507			
8	Automobile repairing.....	279	2,057	247	60	85	83	1,582	Je 1,687	Ja 1,378	1,620	1,596	17	7	.....	2,707,250			
9	Awnings, tents, and sails.....	47	395	47	25	17	31	275	Je 390	Fe 198	251	171	80	.....	.....	760,694			
10	Bags, other than paper, not including bags made in textile mills.	6	166	4	6	3	13	140	Au 209	De 57	164	29	119	.....	10	657,486			
11	Bags, paper, not including bags made in paper mills.	4	183	4	5	3	9	162	De 191	My 140	191	79	101	3	8	539,382			
12	Baskets, and rattan and willow ware.	13	342	13	10	3	5	311	Se 390	Fe 231	390	148	199	28	15	351,508			
13	Belting and hose, other than rubber.	4	135	1	10	2	9	113	De 122	Ja 101	126	72	49	4	1	670,817			
14	Belting and hose, rubber.....	3	2,936	.....	35	279	181	2,441	De 2,851	Je 2,026	2,851	2,315	487	22	27	17,654,898			
15	Belting, leather.....	20	364	7	30	37	21	269	De 309	Au 243	309	282	20	7	.....	1,945,268			
16	Billiard tables and accessories.....	7	50	7	2	.....	2	39	Se 43	Ja 31	41	40	.....	1	.....	137,451			
17	Blacking, stains, and dressings.....	56	1,011	52	53	133	87	686	My 718	Ja 611	707	427	255	7	18	2,665,800			
18	Bookbinding and blank-book making.	94	3,334	83	97	116	102	2,936	De 3,097	Ja 2,709	3,112	1,446	1,461	129	76	5,010,995			
19	Boot and shoe cut stock.....	182	5,331	183	229	141	147	4,631	Oc 4,871	Ja 4,420	4,782	3,488	1,095	151	48	31,739,186			
20	Boot and shoe findings.....	254	6,868	245	326	158	243	5,896	De 6,601	Ja 5,291	6,620	4,258	2,139	115	108	18,485,788			
21	Boots and shoes, not including rubber boots and shoes.	493	89,489	315	2,923	2,203	3,882	80,166	.....	.....	87,368	52,397	31,485	1,971	1,515	202,662,610			
22	Regular factory products.....	456	88,907	279	2,900	2,200	3,869	79,659	De 86,067	Ap 76,622	86,715	52,157	31,109	1,951	1,498	202,400,246			
23	Contract work.....	10	186	10	12	.....	4	160	No 240	Ja 96	233	194	19	17	3	52,323			
24	Stitching.....	16	288	18	3	.....	5	262	De 294	Ap 228	304	15	280	.....	9	66,809			
25	Crimping and buttonholes.....	3	7	3	.....	.....	.....	4	My 4	Fe 3	4	2	2	.....	.....	4,663			
26	Moccasins and overgaiters.....	8	101	5	8	3	4	81	No 119	Fe 33	112	29	75	3	5	138,569			
27	Boots and shoes, rubber.....	8	15,196	.....	320	1,078	735	13,062	De 14,435	Je 11,755	14,441	8,314	5,752	186	189	43,582,806			
28	Boxes, cigar.....	4	187	2	12	1	4	168	De 191	Au 139	191	76	89	9	17	252,834			
29	Boxes, paper and other, not elsewhere specified.	102	5,259	60	209	73	200	4,711	.....	.....	5,200	1,774	2,968	107	351	8,255,874			
30	Set-up paper boxes.....	87	4,320	62	167	36	137	3,918	De 4,244	Ja 3,522	4,281	1,263	2,619	94	305	5,236,640			
31	Cartons and shipping containers.....	15	939	4	42	37	63	793	De 919	Fe 719	919	511	349	13	46	3,019,234			
32	Boxes, wooden packing, except cigar boxes.	75	3,550	48	134	52	84	3,232	De 3,496	My 3,048	3,517	3,044	395	54	24	9,288,276			
33	Brass, bronze, and copper products.....	72	3,217	59	157	96	73	2,832	.....	.....	3,040	2,960	59	17	4	12,253,619			
34	Brass and bronze products.....	67	3,185	55	155	95	71	2,809	De 3,004	My 2,583	3,012	2,937	54	17	4	12,154,359			
35	Copper and all other products.....	5	32	2	.....	1	2	23	De 28	Ja 19	28	23	5	.....	.....	99,260			
36	Bread and other bakery products.....	1,309	11,881	1,391	247	793	367	8,553	.....	.....	9,135	6,535	2,455	54	91	20,652,963			
37	Biscuit and crackers.....	13	2,256	4	53	200	62	1,937	De 2,092	Mh 1,744	2,104	1,000	1,048	4	52	5,285,562			
38	All other.....	1,296	9,125	1,387	194	593	305	6,646	No 6,976	Ja 6,266	7,031	5,535	1,407	50	39	15,867,401			
39	Brick and tile, terra-cotta, and fire-clay products.	35	830	18	45	19	9	739	.....	.....	899	890	.....	9	.....	2,407,083			
40	Building brick.....	29	592	18	34	7	6	527	Au 897	Mh 126	664	664	.....	.....	.....	1,489,851			
41	Fire brick, stove lining, and terra-cotta products.	6	238	.....	11	12	3	212	No 239	Ap 183	235	226	.....	9	.....	977,282			
42	Brooms.....	25	147	25	4	7	4	107	Oc 119	Fe 86	119	102	9	8	.....	282,834			
43	Brushes.....	30	1,817	20	60	48	76	1,613	De 1,858	Ap 1,438	1,860	1,024	826	8	2	5,644,865			
44	Butter.....	20	81	7	14	2	7	51	Au 60	Fe 44	52	60	.....	.....	.....	275,310			
45	Buttons.....	17	438	17	18	5	13	385	No 425	Ja 320	420	204	201	7	8	786,185			
46	Canning and preserving, fish.....	22	1,623	8	39	53	59	1,464	De 1,651	Au 1,249	1,693	1,488	183	10	12	7,104,155			
47	Card cutting and designing.....	6	17	5	3	1	.....	8	No 16	Ja 12	14	8	.....	.....	.....	35,354			
48	Carpets and rugs, other than rag.....	10	3,365	6	51	108	66	3,134	Au 3,720	Fe 2,410	4,068	2,162	1,552	165	179	14,455,308			
49	Carpets, rag.....	19	111	20	5	4	1	81	Ja 92	Fe 65	86	61	14	9	2	63,797			
50	Carriage and wagon materials.....	7	95	13	3	2	2	75	Se 84	Fe 60	83	74	2	7	.....	185,280			
51	Carriages and sleds, children's.....	13	1,593	8	56	54	26	1,449	Ap 1,520	Oc 1,356	1,580	1,346	173	37	24	2,934,255			
52	Carriages and wagons, including repairs.	43	508	49	22	11	10	416	.....	.....	415	412	1	2	.....	879,341			
53	Carriages and wagons.....	32	438	30	19	10	7	366	Mh 401	Ja 302	368	366	.....	2	.....	760,190			
54	Repair work only.....	11	70	13	3	1	3	60	My 58	Ja 45	47	46	.....	1	.....	119,151			
55	Cars and general shop construction and repairs by electric-railroad companies.	30	1,945	.....	27	55	17	1,846	Mh 1,938	My 1,738	1,813	1,796	16	1	.....	2,856,884			
56	Cars and general shop construction and repairs by steam-railroad companies.	14	8,260	.....	220	245	71	7,724	De 8,101	Je 7,414	8,101	8,044	49	8	.....	9,607,976			
57	Chemicals.....	27	3,054	10	142	235	184	2,483	De 2,729	Mh 2,320	2,731	2,150	571	2	8	16,319,388			
58	Chocolate and cocoa products.....	6	2,223	.....	45	117	54	2,007	Se 2,144	My 1,844	1,887	1,858	502	12	15	14,871,209			
59	Cleansing and polishing preparations.	37	178	22	23	26	26	79	.....	.....	80	59	19	2	.....	654,009			
60	Cleansing preparations.....	13	82	8	9	13	12	40	Se 43	De 36	38	32	6	.....	.....	401,185			
61	Metal polish.....	13	59	7	7	10	9	26	No 30	Ja 24	29	17	10	2	.....	157,280			
62	All other polishing preparations.....	11	35	7	7	3	5	13	Au 15	Ja 12	13	10	3	.....	.....	95,594			
63	Clocks.....	3	363	.....	16	22	14	311	De 349	Jy 270	349	271	66	12	.....	821,434			
64	Cloth, sponging and refinishing.....	6	61	3	5	.....	2	51	Au 57	Ja 43	57	55	2	.....	.....	30,710			
65	Clothing, men's.....	207	7,769	246	201	283	183	6,856	.....	.....	7,934	3,403	4,446	22	68	21,798,287			
66	Regular factory products.....	131	6,587	149	200	281	180	5,747	.....	.....	6,720	2,774	3,870	19	57	21,617,414			
67	Men's and youths'.....	69	3,598	87	111	175	90	3,135	Se 3,612	Ja 2,461	3,599	1,909	1,643	9	38	10,824,253			
68	All other.....	62	2,959	62	89	106	90	2,612	No 3,113	Ja 1,612	3,121	865	2,227	10	19	10,793,161			
69	Contract work.....	76	1,212	97	1	2	3	1,100	.....	.....	1,214	628	576	3	6	180,873			
70	Men's and youths'.....	73	1,206	96	1	2	3	1,104	De 1,189	Ja 1,012	1,189	628	552	3	6	177,073			
71	All other.....	3	6	1	.....	.....	5	.....	De 24	Ja 3	25	1	24	.....	.....	3,800			

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

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



## COMBINED AND SPECIFIED INDUSTRIES: 1919.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>	Rent- <sup>2</sup>	

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
100,235,820	83,199,585	700,023,337	22,744,566	12,836,105	150,035,915	2,188,353,757	72,359,279	4,011,181,532	1,750,468,496	1,729,878	694,531	270,401	11,227	189,302	564,417	424,274	1	
12,217	16,646	84,102	716	5,048	3,157	222,668	6,809	305,447	165,070	173					173		2	
125,780	197,189	2,403,567		738	1,092,037	1,050,372	117,036	5,961,390	4,793,982	2,694	50				2,644		3	
7,221	6,258	25,054		4,527	556	25,717	1,765	105,741	78,259	65					65		4	
26,584	11,335	191,782	826	8,342	9,709	277,594	9,370	677,038	390,124	260					232		5	
6,240	3,604	29,483		1,170	1,866	40,247	2,499	121,057	78,311	76	20				44		6	
574,025	282,180	4,589,699	22,214	102,486	258,177	6,590,637	181,268	14,433,382	7,771,487	3,281	715	225	12		2,309	270	7	
248,592	176,899	1,230,642		1,200	708,358	9,506,827	62,979	12,548,222	2,978,416	1,160	125				1,035	40	8	
149,437	186,701	2,044,460	9,500	203,859	88,343	1,948,460	95,160	5,972,500	3,928,880	1,424			125		1,219		9	
59,950	43,704	268,074	30	41,220	13,150	879,956	7,332	1,542,767	655,479	113					118		10	
30,804	18,800	100,079	400	8,457	5,411	1,548,587	3,264	1,815,661	263,800	177					177		11	
17,131	10,107	124,945		4,985	5,818	776,075	7,677	1,100,519	316,767	423	216				207		12	
30,318	15,678	245,607		3,373	16,056	324,824	6,922	767,655	435,909	250	50			80	120	5	13	
60,840	12,077	120,102		10,189	57,240	656,182	17,237	1,095,273	421,854	540	225				315	115	14	
259,048	942,415	2,302,529			517,005	7,398,989	333,468	13,859,748	6,077,291	10,035	880	4,355			4,800	6,328	15	
147,389	74,385	328,639	3,401	27,715	36,950	2,911,870	17,676	3,943,635	1,014,139	383	135				248		16	
6,500	1,850	46,597		10,091	2,801	113,620	1,696	242,177	126,862	43					43		17	
280,511	342,922	687,197		61,682	170,051	4,137,123	34,682	7,108,160	2,996,355	605	355				247	99	18	
352,606	299,073	2,695,018	22,083	156,021	133,420	2,976,746	57,263	8,179,841	5,146,832	1,388	390				390		19	
1,101,345	489,408	4,452,302	24,808	276,696	798,413	69,256,897	186,099	86,214,106	16,732,140	3,896	915			2	2,901	114	20	
1,191,032	465,351	5,046,725	690,853	288,071	655,409	28,128,828	257,390	44,357,147	15,970,929	6,572	2,145			28	4,264	408	21	
10,832,017	9,705,036	89,489,715	846,033	1,299,829	8,025,897	207,787,050	1,583,845	442,466,238	173,115,841	37,945	13,389	2,070	20	40	22,426	1,814	22	
10,797,127	9,695,646	80,025,078	845,985	1,282,932	8,020,517	207,500,772	1,552,629	441,488,092	172,423,691	37,085	13,389	2,070	20	40	22,166	1,814	23	
15,300	2,147	105,230		8,544	859	31,808	5,566	296,612	259,238	148					148		24	
3,990	3,696	217,916		5,309	348	43,330	3,976	341,083	293,727	76					76		25	
15,600	3,547	46,361	48	1,028	40	1,572	284	13,192	11,336	10					10		26	
912,428	2,207,566	12,762,706		2,016	4,093	200,518	1,390	329,257	127,349	26					26		27	
32,635	3,036	105,730		17,584	897,013	17,069,093	552,041	44,307,961	26,686,822	21,609	5,070				15,630	482	28	
819,673	365,645	3,547,098	16,507	1,380	41,232	224,176	3,425	434,774	257,173	95	60				35		29	
539,883	196,550	2,778,191	16,507	159,884	447,111	7,326,670	136,820	16,666,081	8,202,591	4,166	1,050		15	205	2,896	297	30	
280,290	169,095	768,902		129,091	229,012	4,122,413	110,109	10,011,786	5,779,264	2,733	1,000		15	205	1,513	205	31	
545,752	156,916	3,183,412	33,108	30,703	218,099	3,204,257	26,711	6,654,295	2,423,327	1,433	50				1,383	92	32	
606,719	237,158	3,506,249	17,372	61,161	513,635	8,280,165	91,667	15,050,531	6,678,699	12,450	10,005	250	78	513	1,604	1,128	33	
603,268	235,628	3,473,883	17,372	38,662	904,082	8,850,585	507,180	16,943,199	7,576,434	15,611	3,610	200	47	15	11,639	60	34	
3,450	1,530	32,366		37,070	903,502	8,789,924	500,976	16,817,510	7,526,610	15,419	3,610	200	20	15	11,674	60	35	
825,116	1,572,882	9,336,181	721	1,592	580	69,661	6,204	125,689	49,824	92					65		36	
179,332	346,243	1,373,585		665,449	787,662	39,510,796	1,075,987	66,017,267	25,430,484	7,712	2,405				5,209	1,432	37	
645,784	1,226,639	7,962,696	721	49,028	332,490	5,471,501	121,970	10,953,637	5,800,160	1,738	1,605				133	895	38	
105,330	40,079	815,617	54,550	616,421	455,172	34,039,295	954,017	55,063,630	20,070,318	5,974	860		38		5,076	537	39	
70,848	15,506	573,386	21,741	21,741	35,972	234,461	290,027	1,817,512	1,293,024	3,026	1,492		69		1,466	15	40	
34,482	24,573	242,231		25,678	111,678	229,973	1,219,196	877,545	415,479	2,482	1,037		30		1,415		41	
7,504	17,888	94,955	3,445	10,294	122,783	60,054	598,316	598,316		544	455		39		50	15	42	
317,688	169,726	1,342,304	13,103	3,107	364,389	5,148	581,289	211,752	132	132	35		31		66		43	
16,343	8,983	61,513		44,261	587,800	3,208,468	65,394	6,837,413	3,523,523	1,005	530		45	45	385	469	44	
47,263	15,614	310,997	2,277	8,798	4,083	127,205	6,198	2,143,354	339,800	304	80				224		45	
212,251	103,215	1,418,205	200	9,402	7,145	239,540	22,701	1,017,929	755,688	482	250				232	135	46	
2,820	3,271	7,003	145	110,285	9,337,013	87,471	12,763,268	3,338,782	847	82			56		709		47	
399,457	341,255	3,145,512		29,319	343,072	7,746,326	275,050	13,593,990	5,572,614	6,132	3,520	176		1,400	737	3,395	48	
5,718	6,199	67,321	3,211	1,528	279	20,785	259	44,795	25,751	15					10		49	
9,823	5,376	85,328		5,780	490	45,812	2,727	190,598	142,059	84			20		64		50	
235,391	188,584	1,414,180		7,340	3,122	147,451	8,520	348,520	192,549	349	237		10	18	75		51	
58,192	20,440	464,712	116	1,395	161,841	2,510,194	40,083	5,253,729	2,703,442	1,358	700	50		300	308	78	52	
45,423	16,758	407,045	100	24,581	12,709	492,374	28,852	1,323,571	802,345	552	65		59		428		53	
12,769	3,632	57,667	16	16,272	10,255	380,700	24,464	1,083,435	678,271	446	65		53		328		54	
57,308	108,229	2,440,126	9,282	8,309	2,544	111,674	4,338	240,136	124,074	106					100		55	
639,855	352,863	11,271,695		56,412	1,696,710	59,688	4,604,679	2,748,181	2,790	2,790	225				2,565	18	56	
475,417	457,835	3,043,576	3,587	83,229	9,862,210	428,338	22,637,990	12,347,442	11,259	7,528	1,000	6			2,725	6,196	57	
346,233	413,705	1,944,753	1,463															
75,115	88,212	73,610	2,877	30,402	738,198	7,561,738	539,679	17,305,166	9,208,749	9,223	2,555	3,225	175	1	3,257	3,064	58	
25,033	55,641	39,234		87,461	827,625	23,697,564	291,586	30,327,397	6,338,247	5,711	2,662		150	300	2,599	331	59	
23,811	22,369	23,844		17,604	727,205	6,198	6,198	1,392,617	659,226	141			17		124		60	
26,271	10,202	10,532	1,100	7,398	18,875	438,440	3,571	896,066	426,049	105			7		98		61	
40,536	36,879	313,000	1,777	5,883	2,754	149,645	1,584	279,066	127,857	26			10		16		62	
11,263	1,040	57,300		4,323	1,637													



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

																		Dollars.
1	Clothing, men's, buttonholes.....	4	13	4				9	(*)	9	(*)	9	10	6	3	1	1	1,300
2	Clothing, women's.....	258	7,919	302	235	271	240	9,271					6,475	1,333	4,970	3	1	10,994,913
3	Regular factory products.....	238	7,137	278	233	269	235	6,122					6,328	1,269	4,888	2	169	10,953,855
4	Suits, skirts, and cloaks.....	46	1,039	70	27	41	41	860	Oc	958	Ja	716	878	269			2	1,807,917
5	Shirt waists and dresses, except house dresses.	56	3,121	99	98	118	106	2,700	My	2,918	Ja	2,369	2,551	354	2,091	1	85	4,122,833
6	Undergarments and petticoats.	37	1,424	37	45	43	41	1,268	De	1,441	Ja	1,002	1,443	140	1,259		44	3,189,532
7	Wrappers and house dresses.....	11	217	13	11	13	7	173	De	203	Fe	155	203	21	177		5	313,450
8	All other.....	58	1,336	59	52	54	40	1,131	No	1,277	Ja	894	1,273	137	1,102	1	33	1,520,114
9	Contract work.....	20	182	24	2	5	5	149					147	64	82	1		41,058
10	Suits, skirts, and cloaks.....	15	118	20	1	1	1	92	No	113	Jy	67	87	63	23	1		17,080
11	All other.....	5	64	4	1	1	1	57	Oc	100	Fe	7	60	1	59			23,900
12	Coal-tar products.....	8	634	1	43	110	36	444	De	535	Mh	366	535	533	1	1		3,718,616
13	Coffee and spice, roasting and grinding.	23	826	23	38	197	56	512					548	342	199		7	5,676,977
14	Coffee.....	19	622	22	22	164	49	365	Au	386	Mh	349	378	271	106		1	4,754,825
15	Spice.....	4	204	1	16	33	7	147	De	170	Ap	129	170	71	93		6	922,152
16	Coffins, burial cases, and undertakers' goods.	9	429	4	20	30	16	359	Fe	420	Se	292	348	321	26	1		1,313,269
17	Combs and hairpins, not made from metal or rubber.	26	1,922	13	67	28	48	1,766	De	1,847	Ja	1,690	1,952	1,150	630	89	88	2,976,108
18	Confectionery and ice cream.....	278	13,613	291	498	627	612	11,585					11,850	3,651	6,909	225	1,071	28,133,527
19	Confectionery.....	130	12,435	117	442	590	533	10,763	Oc	11,800	Jy	9,600	11,141	3,041	6,808	221	1,071	25,202,770
20	Ice cream.....	148	1,178	174	56	37	79	832	Jy	1,133	Ja	623	715	610	101	4		2,870,757
21	Cooperage, hogsheds and barrels.	18	431	18	8	5	4	396	Mh	477	Ap	336	374	374				1,054,040
22	Copper, tin, and sheet-iron work.	137	2,172	124	174	171	170	1,633	De	1,754	Mh	1,392	1,750	1,683	46	19	2	4,382,284
23	Cordage and twine.....	18	2,995	4	70	74	104	2,743	Mh	2,948	Ja	2,574	2,720	1,911	729	45	35	26,094,441
24	Cordials and flavoring sirups.	8	94	3	12	11	15	53	Au	60	Se	39	51	31	20			522,869
25	Cork, cutting.....	3	30	1	6	2		21	Fe	29	My	18	22	16	5	1		109,376
26	Corsets.....	11	1,750	1	37	89	68	1,555	Oc	1,790	Jy	1,439	1,804	227	1,431	10	136	4,319,452
27	Cotton goods.....	191	125,834	17	1,361	1,046	911	122,499	De	127,017	Ap	118,106	128,489	65,749	55,354	3,675	3,811	504,295,102
28	Cotton small wares.....	40	1,821	13	97	13	47	1,651	Jy	1,768	Fe	1,541	1,683	544	996	40	103	5,350,880
29	Cutlery and edge tools.....	51	4,739	27	169	307	248	3,988					4,528	2,865	1,684	73	26	24,543,745
30	Table cutlery.....	6	870		27	29	17	797	De	869	Ja	700	869	770	41	48	10	1,902,236
31	All other.....	45	3,869	27	142	278	231	3,101	De	3,588	Au	2,760	3,659	2,095	1,523	25	16	22,641,609
32	Dental goods.....	9	65	4	7	7	7	40					46	34	9	3		142,678
33	Teeth.....	3	15	3				12	No	17	Ja	10	17	14		3		6,895
34	All other.....	6	50	1	7	7	7	28	Ap	35	Je	21	29	20	9			135,783
35	Druggists' preparations.....	24	2,573	7	125	295	447	1,699	Fe	2,097	Au	1,446	1,848	864	952	16	16	15,396,709
36	Dyeing and finishing textiles, exclusive of that done in textile mills.	62	13,389	13	379	322	254	12,321	De	13,931	Mh	10,800	13,786	10,414	3,117	153	102	58,279,255
37	Dyestuffs and extracts—natural.	27	277	19	32	34	27	165	De	194	Ap	127	186	175	5	1	5	2,261,813
38	Electrical machinery, apparatus, and supplies.	110	29,472	32	1,201	2,287	2,063	23,889	De	28,024	Ap	21,582	28,008	20,884	6,900	151	73	90,953,845
39	Electroplating.....	48	389	49	24	15	13	288	No	347	Fe	227	328	305	13	10		358,493
40	Emery and other abrasive wheels.....	14	3,010	8	113	193	253	2,443	De	2,776	Jy	2,214	2,776	2,550	206	6	14	17,747,806
41	Enameling.....	7	78	5	3	1	2	67	No	80	Mh	52	78	39	30	2	7	147,696
42	Engraving and diesinking.....	47	216	55	3	5	9	144	Se	164	Ja	123	163	140	9	14		145,778
43	Engraving, steel and copper plate, including plate printing.	24	524	16	22	21	33	432	Oc	515	Fe	386	465	224	189	24	28	488,256
44	Envelopes.....	13	2,161	2	51	82	109	1,917	De	2,163	Au	1,826	2,163	703	1,439	3	8	7,256,167
45	Fancy articles, not elsewhere specified.	39	2,227	26	93	62	117	1,929					2,497	1,231	1,123	50	93	4,063,676
46	Celluloid novelties.....	10	1,285	2	46	19	48	1,170	De	1,362	Ja	1,094	1,362	838	492	15	17	2,536,916
47	Metal and wood novelties.....	5	237	5	15	5	23	189	De	277	Je	144	277	225	50	2		556,160
48	Paper novelties.....	8	561	6	21	33	41	460	De	713	Mh	309	713	126	478	33	76	753,541
49	All other.....	16	144	13	11	5	6	110	No	150	Ja	60	145	42	103			216,959
50	Felt goods.....	15	1,309		56	46	121	1,086	Ja	1,143	Je	1,021	1,248	1,090	140	13	5	10,790,477
51	Firearms.....	5	2,440	1	13	78	95	2,253	Je	2,931	Ja	1,386	2,463	2,323	95	45		5,294,048
52	Flags and banners.....	3	12	2				10	Oc	14	Ja	6	13	7				18,198
53	Flavoring extracts.....	27	254	19	27	60	19	129	Oc	151	Ja	115	147	59	81	1	6	959,221
54	Flour-mill and gristmill products.....	75	238	79	18	7	11	123	De	138	Mh	116	143	135	8			3,135,522
55	Food preparations, not elsewhere specified.	81	1,203	79	78	104	94	848					886	605	255	17	9	4,704,078
56	Breadstuffs, cereals, and breakfast foods.	8	36	7	2	1	8	18	Ja	21	Ap	15	19	17	2			147,090
57	Macaroni, vermicelli, and noodles.	17	253	23	11	7	6	211	Jy	225	Fe	195	228	189	27	10	2	1,137,112
58	Meat products, not elsewhere specified.	5	179	2	13	9	11	144	Ja	209	Au	93	134	66	67	1		902,255
59	Peanut butter.....	3	21	4	1	2		14	Mh	15	Ja	13	14	8	6			29,878
60	All other.....	48	709	43	51	85	69	461	Ja	511	Oc	401	491	325	153	6	7	2,487,743
61	Foundry and machine-shop products.	574	33,161	365	1,617	1,895	1,572	27,712					31,355	30,339	859	150	7	102,738,364
62	Boiler shops.....	18	949	10	42	38	29	830	Ja	871	Mh	729	818	814	3	1		3,067,936
63	Foundries.....	49	4,507	42	199	90	115	4,061	De	5,005	Je	3,420	5,071	5,039	17	15		9,474,466
64	Machine shops.....	757	25,696	313	1,278	1,698	1,380	21,027	De	23,542	My	19,913	23,559	22,599	824	129	7	86,092,149
65	Machine shop and foundry combined.	20	2,009		98	69	48	1,794	Ja	1,938	Ap	1,624	1,907	1,887	15	5		4,103,803
66	Fur goods.....	22	376	22	15	37	13	289	De	340	Mh	248	340	162	177	1		1,179,617
67	Furnishing goods, men's.....	14	856	15	16	30	20	275	De	310	Ja	250	330	50	277	3		1,008,764
68	Furniture.....	161	7,232	129	316	236	209	6,342					7,418	6,461	761	154	42	27,852,510
69	Wood, other than rattan and willow.	120	5,623	104	229	183	154	4,963	De	5,741	Ja	4,305	5,757	5,019	559	139	40	23,028,120
70	Rattan and willow.....	13	965	7	44	18	31	865	De	1,025	Ap	779	1,025	837	184	4		3,384,994
71	Metal.....	9	249	2	16	18	8	205	De	225	Ja	182	225	203	12	8	2	595,628
72	Store and office fixtures.....	19	395	16	27	17	16	319	De	411	My	225	411	402	6	3		843,768

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

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



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.										POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.		Value of products.	Value added by manufacture.	Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total	Owned.	Owned.	Owned.	Rent- <sup>2</sup>	
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>	

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.								
709,399	805,707	7,760	674,508	1,197	144,453	17,877,812	95,705	13,749	17,278	4	470	2	2	1,150	116	2	1	
705,922	801,899	5,616,403	674,508	344,718	144,027	17,814,269	93,178	30,427,592	12,454,075	1,022	470	2	2	1,116	116	3	3	
62,897	111,141	5,469,175	48,125	334,302	8,096	6,530,992	14,592	30,131,248	12,223,801	1,588								
250,944	362,082	1,254,154	456,889	60,183	82,006	6,439,222	38,449	6,034,004	2,438,420	139	310			434	116	4	5	
		2,278,977	134,692	52,006				11,442,349	4,964,678	744								
222,518	193,907	965,504	138,113	60,060	59,851	5,111,880	19,140	7,685,546	2,554,526	411	160			251		6		
16,030	28,931	125,421		16,997	1,092	540,875	3,800	864,338	319,663	56				56		7		
148,033	105,238	545,059	31,431	61,770	21,782	2,191,300	17,197	4,105,011	1,896,514	238				238		8		
5,477	3,808	147,228		10,416	426	63,543	2,527	296,344	230,274	34				34		9		
1,805	2,495	117,170		8,816	233	63,254	1,609	240,061	175,198	19				19		10		
1,672	1,313	30,068		1,600	223	289	918	55,283	55,076	15				15		11		
279,755	162,005	572,177	1,282	12,767	140,830	2,355,083	116,443	3,956,075	1,485,449	1,019	191	12		810	88	12		
263,266	496,701	483,470		104,464	110,029	13,939,589	65,247	10,977,791	2,972,955	1,377	480	48	100	749	530	13		
191,876	438,396	343,515		93,984	90,077	12,543,041	54,783	15,121,662	2,523,838	919	220		40	659	226	14		
71,390	57,305	139,955		10,480	19,952	1,390,548	10,464	1,856,129	448,117	458	260		8	90	310	15		
96,342	84,586	371,501		12,526	108,145	984,763	7,618	2,176,243	1,183,872	762	400			362		16		
270,258	86,459	1,424,632	23,512	5,652	70,728	2,462,099	72,563	5,179,469	2,644,807	1,292	667			102	523	17		
1,855,174	1,769,483	8,523,320	8,142	614,724	3,624,883	39,728,401	625,608	68,896,885	28,542,876	11,296	4,116	810	111	1	6,198	3,841	18	
1,682,518	1,652,200	7,512,037	1,370	534,659	3,559,751	34,409,967	407,356	60,550,558	25,682,235	8,419	4,001	810	27	1	3,581	3,841	19	
172,656	117,283	1,011,283	6,772	80,065	65,132	5,321,434	158,252	8,340,327	2,860,641	2,817	115		84	1	2,617		20	
30,510	7,682	350,948	190	4,045	36,016	1,358,830	26,437	2,150,268	765,001	413	275		4	25	109	76	21	
536,085	292,773	1,919,135	16,549	90,082	106,839	3,163,582	64,404	8,315,508	5,087,522	1,926	225		159	1,542	270	22		
237,130	255,904	2,360,026	250,000	11,820	2,696,563	19,227,341	203,009	28,080,044	8,655,094	10,957	5,191	3,007	225	478	1,396	1,893	23	
72,982	31,490	48,079	4,000	15,131	10,960	630,783	3,982	962,878	327,818	102					102		24	
11,720	2,040	17,720	7,921	2,352	182	44,051	2,582	93,936	46,703	111	58			25	28	3	25	
220,765	335,620	1,093,117		32,810	175,893	3,352,418	14,544	6,763,509	3,390,547	835	565			27	270	460	26	
6,611,577	2,740,030	109,902,503	549,728	939,202	35,955,892	348,077,663	11,598,176	590,687,441	237,012,202	523,645	267,200	87,234	1,380	69,460	98,371	117,895	27	
392,001	63,063	1,238,705	20,047	37,241	253,476	5,122,118	123,367	8,250,308	3,004,823	2,722	620		31	225	1,946	60	28	
480,510	656,211	3,940,686	1,875	13,989	2,335,804	5,200,738	100,599	19,672,750	14,201,413	5,885	1,440	30	9	655	3,751	245	29	
80,371	67,096	863,068		55,928	458,056	57,290	1,889,444	1,374,158	2,156	550				435	1,171	76	30	
400,139	589,115	3,077,618	1,875	13,989	2,279,876	4,742,682	153,369	17,783,806	12,887,255	3,729	890	30	9	220	2,580	170	31	
20,924	15,032	38,888	520	5,481	7,898	689,714	2,328	881,152	189,110	27					27		32	
20,924	15,032	27,937	520	1,231	208	18,275	209	46,079	27,635	4					4		33	
761,557	812,636	1,307,006	420	4,250	7,690	671,439	2,059	835,073	161,575	23					23		34	
1,822,530	820,747	12,240,747	22,722	22,061	784,156	4,013,010	39,859	9,989,720	5,036,851	757	610			147	568	35		
				12,980	4,594,062	41,845,699	2,363,839	75,201,815	31,052,277	39,133	13,613	14,269		2,805	8,956	18,146	36	
118,604	91,095	199,018		22,183	152,958	4,422,910	52,920	5,811,567	1,335,737	773	319		25	8	421		37	
3,855,415	5,168,647	27,649,667	28,160	195,130	4,127,531	30,645,217	1,291,859	91,938,738	60,101,062	30,367	3,925	24,718	75	180	7,469	58,460	38	
64,032	26,412	323,742	3,953	37,288	4,398	147,659	20,912	834,325	665,754	498			15		483		39	
482,667	388,240	2,204,531		787,071	4,566,879	446,365	13,118,047	13,118,047	5,886	375	1,667		4		3,840	1,465	40	
6,250	2,392	57,953	9	1,710	5,909	123,114	8,643	256,609	124,852	94	65				29		41	
7,147	12,983	169,217	7,724	16,043	2,056	46,296	3,505	434,583	384,782	78					78		42	
122,082	55,549	407,250	9,074	29,780	30,912	254,262	7,340	1,818,098	1,056,496	110			10		100		43	
225,640	235,252	1,673,251		14,435	262,877	6,504,528	45,615	10,868,966	4,318,823	1,401	985	35			381	1,009	44	
260,375	287,028	1,692,386	83,487	39,806	196,949	4,358,917	129,842	7,931,996	3,443,237	2,473	381			12	2,080		45	
165,825	62,892	1,145,729	146	15,779	172,999	3,351,135	101,820	6,524,119	2,071,164	1,975	301		12		1,682		46	
24,020	36,845	184,380	6,553	7,543	12,999	272,778	18,542	649,074	358,854	214					214		47	
46,855	129,348	285,214	72,805	7,013	9,869	483,769	6,950	1,281,924	791,205	242	80				162		48	
23,675	7,943	77,063	3,983	9,531	1,082	251,735	2,530	476,279	222,014	42					42		49	
293,550	213,543	1,154,905		11,096	194,126	6,421,690	218,020	10,286,361	3,646,651	5,243	1,695	500		756	2,292	540	50	
95,542	234,363	2,599,197		620	372,572	961,022	105,185	5,644,610	4,678,303	2,121	870				1,551		51	
	10,262	1,000		1,197	52	8,262	326	28,045	19,407	8					8		52	
166,247	270,412	108,170	41	24,807	44,820	1,120,340	6,089	2,147,024	1,020,595	77					77		53	
32,981	15,652	129,996	152	18,259	25,303	4,214,481	35,055	4,878,212	628,676	4,013	234		120	1,162	2,497		54	
299,181	302,127	772,902	31,105	89,437	171,967	5,890,790	181,017	9,002,578	3,530,771	1,919	412		6	27	1,475		55	
10,500	8,423	16,874		5,244	2,016	300,969	2,895	399,157	95,293	114	14			27	78		56	
29,463	15,273	180,751		15,528	11,586	1,164,933	44,439	1,633,341	423,969	700	100				600		57	
60,975	21,583	120,357		6,531	38,034	1,164,933	15,493	1,592,095	391,709	179					179		58	
3,900	4,522	13,486		180	382	113,223	1,837	153,423	38,363	20					20		59	
194,343	252,326	441,434	31,105	61,964	119,949	3,126,712	116,413	5,824,562	2,581,437	908	289		5		603		60	
5,901,981	3,898,558	36,613,749	807,324	495,990	3,721,618	37,118,580	2,091,453	111,852,729	72,642,591	43,310	8,754	4,584	981	1,380	30,611	7,949	61	
229,768	60,341	1,064,798	0,062	27,849	104,505	1,996,056	81,409	4,615,248	2,537,783	1,430	555		10		765	139	62	
792,201	170,417	5,494,824	1,233	55,104	338,390	4,741,516	504,440	14,011,139	8,755,183	6,728				31	5,969	288	63	
4,566,275	3,498,027	27,812,904	799,203	394,003	3,009,338	28,448,256	1,277,297	87,										



TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

															Dollars.
1	Gas and electric fixtures.....	7	110	4	8	2	6	90	De 101	Au 82	101	90	10	1	221,900
2	Gas, illuminating and heating.....	51	3,314	204	179	277	2,654	Ja 2,739	Se 2,424	2,612	2,608	27	11	6	77,080,109
3	Glass, cutting, staining, and ornamenting.....	26	225	27	4	8	177	No 207	Au 155	210	166	27	11	6	299,275
4	Gloves and mittens, leather.....	5	64	5	4	1	4	No 68	Ap 37	62	23	39	-----	-----	158,401
5	Glue, not elsewhere specified.....	13	932	2	47	19	38	No 880	Je 798	819	689	130	-----	-----	5,410,316
6	Gold, leaf and foil.....	12	140	12	4	1	5	De 147	Je 105	147	79	65	3	-----	187,905
7	Gold and silver, reducing and refining, not from the ore.....	5	32	5	3	1	3	Oc 26	My 14	23	22	1	-----	-----	253,648
8	Grease and tallow, not including lubricating greases.....	24	958	11	50	49	23	825	-----	832	820	9	3	-----	4,599,253
9	Soap stock.....	11	341	4	22	16	8	Ja 306	Jy 277	295	293	-----	2	-----	1,674,366
10	All other.....	13	617	7	28	33	15	Se 581	Mh 495	537	527	9	1	-----	2,924,887
11	Hair work.....	3	11	-----	1	1	1	(*) 6	(*) 6	6	6	6	-----	-----	2,700
12	Hand stamps.....	18	145	18	13	11	3	Je 106	Ja 93	106	70	24	6	6	187,012
13	Hardware.....	30	662	20	43	71	28	500	-----	566	402	141	19	4	1,609,842
14	Locks.....	5	64	4	9	1	6	De 59	Ja 27	59	47	8	3	1	124,115
15	Builders' hardware.....	5	30	2	4	1	2	De 20	Mh 17	29	25	1	3	-----	66,221
16	All other.....	20	568	14	30	69	20	No 488	Ja 390	478	330	132	13	3	1,419,506
17	Hat and cap materials.....	5	26	4	2	-----	1	Je 21	Ja 15	21	12	4	3	2	18,891
18	Hats and caps, other than felt, straw, and wool.....	42	507	57	18	30	26	Oc 417	Fe 339	406	274	121	7	4	916,195
19	Hats, straw.....	13	1,612	11	51	34	26	Fe 2,154	Jy 835	1,917	649	1,241	14	13	2,194,748
20	House-furnishing goods, not elsewhere specified.....	54	1,367	41	61	108	76	1,081	-----	1,253	337	813	25	78	3,854,507
21	Mops and dusters.....	13	148	7	10	14	10	Oc 131	Fe 80	128	42	82	1	3	237,079
22	All other.....	41	1,219	34	51	94	66	No 1,131	Ja 799	1,125	295	731	24	75	3,617,428
23	Ice, manufactured.....	12	182	4	16	9	1	Au 182	Ja 119	160	160	-----	-----	-----	2,062,115
24	Instruments, professional and scientific.....	25	991	16	88	51	54	782	-----	801	626	160	14	11	2,128,286
25	Medical, surgical, and optical.....	7	449	3	61	89	36	De 332	Au 299	332	219	91	11	11	647,519
26	All other.....	18	542	13	27	12	18	Fe 553	Mh 421	469	407	59	3	-----	1,480,787
27	Iron and steel, steel works and rolling mills.....	11	4,310	1	204	306	115	De 4,029	Ap 3,221	3,996	3,881	161	4	-----	21,374,408
28	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	11	1,618	2	48	35	62	De 1,635	Ja 1,302	1,635	1,144	489	2	-----	4,576,129
29	Iron and steel, forgings, not made in steel works or rolling mills.....	14	2,441	-----	103	68	98	De 2,491	Fe 2,024	2,607	2,558	33	14	2	11,685,386
30	Iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills.....	25	1,720	14	48	60	61	1,537	-----	1,735	1,287	427	11	10	5,812,171
31	Wire nails and spikes.....	7	229	2	12	10	9	Ja 243	Se 135	212	123	80	1	8	1,101,920
32	All other.....	18	1,491	12	36	50	52	De 1,505	Au 907	1,523	1,164	347	10	2	4,710,251
33	Iron and steel, tempering and welding.....	29	182	26	12	3	7	84	-----	90	90	-----	-----	-----	182,990
34	Treated iron and steel.....	3	21	-----	6	1	2	Jy 14	Fe 10	12	12	-----	-----	-----	31,307
35	Welding.....	26	111	26	6	2	5	De 81	Mh 63	78	78	-----	-----	-----	151,693
36	Ivory, shell, and bone work, not including combs and hairpins.....	6	154	1	11	1	3	Mh 160	My 112	156	137	15	4	-----	377,291
37	Japanning.....	4	17	7	-----	-----	-----	De 12	Fe 9	11	10	1	-----	-----	3,950
38	Jewelry.....	105	7,916	176	336	340	6,786	De 7,713	Ja 5,806	7,699	4,734	2,695	147	123	19,445,856
39	Jewelry and instrument cases.....	10	393	7	11	2	8	De 422	My 329	422	78	268	8	50	2,227,112
40	Knit goods.....	77	18,596	41	235	255	314	De 13,975	My 11,970	13,963	3,862	9,447	184	470	38,650,842
41	Lamps and reflectors.....	8	717	6	39	28	18	De 672	My 590	670	537	124	8	1	1,478,360
42	Lapidary work.....	6	58	6	2	-----	50	My 59	No 40	45	39	6	-----	-----	45,118
43	Lasts.....	31	1,511	22	84	36	1,299	De 1,413	Ja 1,031	1,460	1,387	50	23	-----	3,603,942
44	Leather goods, not elsewhere specified.....	51	677	37	30	32	27	De 644	Ja 501	647	319	293	19	16	1,286,265
45	Leather, tanned, curried, and finished.....	131	16,877	92	684	530	441	De 17,379	Jy 13,241	17,378	15,759	1,440	147	32	92,548,853
46	Lime.....	12	643	8	21	10	3	No 542	Mh 445	533	531	-----	2	-----	1,254,687
47	Linen goods.....	4	1,288	-----	18	35	16	De 1,283	Ja 1,164	1,310	523	614	66	107	5,257,364
48	Liquors, distilled, grain alcohol and rum.....	4	93	1	9	11	8	Ja 90	Au 49	56	56	-----	-----	-----	2,800,920
49	Liquors, malt.....	19	1,923	8	92	160	40	Je 1,464	De 1,004	1,162	1,157	5	-----	-----	15,842,830
50	Lithographing.....	14	1,519	1	85	106	109	De 1,349	Ap 1,106	1,349	917	412	14	6	4,141,125
51	Looking-glass and picture frames.....	26	195	26	5	5	11	De 169	Fe 132	133	147	-----	-----	-----	251,727
52	Lumber and timber products.....	244	1,913	260	49	12	10	Mh 1,837	Jy 1,332	1,998	1,979	-----	19	-----	4,068,302
53	Lumber, planing-mill products, not including planing mills connected with sawmills.....	146	2,728	107	177	111	88	De 2,614	Fe 1,960	2,613	2,576	8	29	-----	8,410,880
54	Machine tools.....	46	7,709	22	274	469	473	De 7,297	Jy 5,858	7,370	7,011	326	32	1	32,446,551
55	Marble and stone work.....	239	2,435	235	85	75	44	De 1,936	-----	2,236	2,227	2	-----	7	6,654,512
56	Monuments and tombstones.....	131	1,142	239	31	34	20	My 1,003	Ja 247	911	903	1	-----	7	2,185,345
57	All other.....	68	1,293	56	54	41	24	No 1,296	Fe 677	1,325	1,324	1	-----	-----	3,469,167
58	Mattresses and spring beds, not elsewhere specified.....	32	768	49	32	69	35	Oc 637	Ja 503	600	412	162	16	10	2,110,236
59	Millinery and lace goods, not elsewhere specified.....	60	1,621	61	51	57	56	-----	-----	1,833	469	1,343	8	13	1,908,084
60	Embroideries.....	10	118	6	12	5	3	Oc 112	Ap 78	104	19	78	1	6	118,832
61	Trimmed hats and hat frames.....	24	1,119	27	21	40	41	Fe 1,298	Jy 641	1,363	396	955	6	6	1,162,322
62	Women's neckwear.....	11	228	12	13	7	8	No 220	Ja 149	222	17	204	1	-----	242,962
63	All other.....	15	156	16	5	7	4	Oc 148	Ja 96	144	37	106	-----	1	383,968

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
30,950	6,166	101,805	3,465	8,219	6,483	117,659	3,610	347,016	225,747	63	18,827	9,958	5,880	25	12	63	2,052	1	
458,483	497,024	8,557,408	843	18,388	1,788,328	1,907,331	8,866,233	24,231,095	13,457,531	134	1,095	1,085				18	30	2	
17,405	8,650	177,706			2,909	301,705	7,256	672,244	363,283		41			12		29	107	3	
8,160	4,755	49,192	1,404	4,020	1,000	134,098	1,969	225,255	89,188	18	111			4		30	72	4	
189,881	79,493	939,913	19,873	2,114	134,787	3,359,079	270,717	6,451,367	2,821,571	1,095						29		5	
9,272	3,165	125,753	5,359	1,907	4,164	190,827	2,438	399,443	206,178	41						107		6	
8,155	3,840	22,961		600	2,012	474,243	7,434	639,313	187,636	111								7	
124,684	88,018	910,524		60,890	223,123	4,562,612	273,009	7,323,228	2,487,607	2,163	1,437					726	650	8	
54,924	30,266	332,302		1,413	98,759	1,130,604	110,812	2,207,537	966,121	798	540					253	308	9	
99,760	57,752	584,222		59,477	124,364	3,432,008	162,107	5,115,691	1,521,480	1,365	897					408	342	10	
	1,044	4,240	600	1,172	31	9,226	43	24,335	15,066	1						1		11	
23,992	18,540	82,541	960	11,347	13,994	98,122	3,035	335,183	234,026	53						53		12	
128,313	95,245	462,004	7,296	16,978	85,217	844,742	36,765	2,452,121	1,570,614	691	100					591		13	
19,778	3,720	33,324		2,340	1,681	81,185	1,999	175,276	92,092	38						38		14	
10,500	2,100	25,410		5,935	660	33,595	1,410	89,538	54,533	45						45		15	
98,035	89,425	403,270	7,296	8,701	82,876	729,962	33,356	2,187,307	1,423,989	607	100					507		16	
8,404	936	15,601		2,309	136	30,612	446	66,997	35,339	6				3		3		17	
81,844	81,380	508,775	2,074	34,114	5,508	1,370,724	9,875	2,403,884	1,017,285	72						72		18	
217,269	99,033	1,109,251	48,327	5,880	82,400	2,902,436	77,607	5,485,090	2,505,047	695	484				40	171	167	19	
256,391	277,748	793,381	39,995	62,801	43,740	5,091,557	38,258	7,708,426	2,578,611	746	345			38		363	13	20	
47,349	21,413	73,787	2,838	9,096	2,969	467,073	2,257	750,368	281,038	69						69		21	
209,042	256,335	719,594	37,157	53,705	40,771	4,624,484	36,001	6,953,058	2,297,573	677	345			38		294	13	22	
22,956	10,655	201,347		9,829	49,694	30,906	152,086	745,098	562,106	3,995	3,540	108	176	150		21	759	23	
188,416	153,859	851,032	3,475	37,670	224,025	886,121	28,236	2,894,515	1,980,158	608	165					443		24	
102,802	115,527	278,315	410	20,448	28,195	333,287	5,973	995,599	656,339	180	40					140		25	
85,614	38,332	572,717	3,065	17,222	195,830	552,834	22,263	1,898,916	3,323,819	428	125					303		26	
605,466	657,183	5,757,624	650	17,383	752,879	17,232,481	2,004,008	30,069,601	11,733,112	31,609	20,949	46	667	425		9,522	7,285	27	
193,044	128,420	1,612,857		7,222	288,637	3,038,400	111,188	5,763,078	2,613,400	2,120	1,619				65	436	787	28	
747,772	214,618	2,906,244	386	17,099	1,358,382	4,631,106	647,233	13,299,412	8,020,983	6,579	1,538					5,041	30	29	
223,053	145,932	1,519,986	3,598	30,184	359,773	3,697,393	143,412	7,852,504	4,011,699	3,880	1,625			6	291	1,458	752	30	
66,433	20,064	178,872	3,598	12,091	83,820	843,621	13,859	1,409,486	652,006	619	50				75	494		31	
156,620	125,808	1,341,114		18,093	275,953	2,853,772	129,563	6,443,018	3,459,693	2,761	1,575			6	210	904	752	32	
21,422	6,454	145,144	1,867	13,544	3,496	85,950	14,097	341,657	241,610	121						121		33	
9,644	1,708	15,422		3,240	2,391	9,932	7,712	50,402	32,898	38						38		34	
11,778	4,746	129,722	1,867	10,304	1,105	76,018	6,385	291,615	209,212	83						83		35	
45,603	3,482	111,717			9,551	321,450	13,729	584,340	249,161	211	170					41	25	36	
1,148,117	894,790	7,233,590	471,562	261,233	615,842	18,171,406	193,030	34,816,822	16,452,320	4,404	630			60	167	114	3,433	96	37
20,457	6,653	245,434	6,046	16,490	7,686	269,579	8,764	696,515	417,172	151						151		38	
1,117,126	887,331	11,364,030	147,789	70,929	30,730,778	441,785	52,424,235	21,251,072	16,574	16,574	7,270	1,214	38	2,710		5,333	2,055	39	
91,814	51,740	545,958		7,878	14,537	887,024	39,148	1,814,304	888,182	1,028						1,028		40	
8,800	600	57,134	588	2,959	1,969	22,151	2,347	134,045	110,147	23						23		41	
335,361	178,085	1,598,128	49,021	32,427	321,437	1,759,458	77,578	5,896,356	4,049,320	2,861	1,315					1,540	758	42	
99,796	84,414	417,345	12,448	32,351	13,384	1,113,942	16,149	2,032,710	332,619	396	94				14	288		43	
2,779,770	1,117,085	19,211,106	1,142,633	316,402	3,692,229	80,083,207	1,934,043	129,594,902	47,877,707	34,159	15,165	5,404	200	362		13,028	11,147	44	
52,974	23,900	522,024		2,777	69,613	599,854	368,475	2,113,741	1,445,412	2,023	531			135		1,362	60	45	
77,796	83,708	1,105,526		10,000	136,273	8,231,247	97,242	5,177,670	1,849,190	3,780	2,100	450			880	350	1,095	46	
119,551	29,030	90,653		57,394	1,891,218	43,486	4,480	2,550,171	615,517	149	30					119		47	
743,944	362,339	1,931,084		4,784,997	3,768,482	419,100	14,712,964	10,525,882	7,835	6,627	388					820	905	48	
339,417	377,626	1,347,811	158,643	25,735	97,661	1,845,058	51,369	4,916,351	3,019,624	1,025	668			120		237	1,515	50	
6,648	18,787	160,779	6,200	18,430	5,235	251,472	4,190	337,906	337,906	134						134		51	
103,683	20,105	1,645,633	223,603	7,876	164,699	2,067,244	58,314	5,732,924	3,607,366	14,164	7,473	20	1,386	3,053		2,222	214	52	
447,493	230,679	2,708,767	30,443	117,920	213,308	7,078,193	135,603	12,625,323	5,411,522	11,515	6,925	15	84	305		4,186	555	53	
925,899	995,451	7,610,041	101,642	98,717	1,072,132	6,532,701	276,062	23,442,547	16,533,784	12,676	2,165	35			170	10,306	780	54	
195,228	144,665	2,625,147	181,690	48,583	79,140	2,275,617	243,624	7,125,060	4,605,819	11,663	6,731	165	180		4	4,573		55	
67,151	78,022	1,234,974	164,948	20,986	40,957	1,528,742	90,873	4,148,008	2,510,888	3,084	457			172		2,451		56	
135,077	60,643	1,390,173	16,742	27,517	35,138	143,746	143,746	2,777,052	2,086,431	8,569	6,274	165	8			2,122		57	
127,310	140,372	637,417	650	77,318	51,869	2,394,458	31,648	4,016,343	1,589,237	903	125					778	53	58	
166,396	183,189	1,258,277	13,362	78,671	67,672	3,108,276	44,852	5,958,805	2,805,677	628	159			4	35	430		59	
33,120	9,048	87,397	1,700	5,171	1,724	178,592	2,202	393,894	215,100	24				4		20		60	
99,524	134,774	941,605		42,382	58,159	2,199,496	35,892	4,242,700	2,007,312	443	159				35	259		61	
22,011	29,618	108,810	11,032	13,745	3,460	287,609	2,556	607,812	317,647	41						41		62	
11,741	9,749	120,565	630	17,273	4,229	444,579	4,202	714,399	265,618	120						120		63	

\* Same number reported for one or more other months.

\* Same number reported throughout the year.



TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

																Dollars.
1	Mineral and soda waters.....	172	1,212	184	96	103	61	788		664	641	13	9	1		4,170,421
2	Mineral and carbonated waters..	166	1,201	176	96	103	61	765	Jy 1,052	661	638	13	9	1		4,169,346
3	All other.....	6	11	8				3	(*) 3	61	3					11,075
4	Minerals and earths, ground or otherwise treated.	10	188	6	19	4	4	153	De 168	168	167		1			1,182,840
5	Mirrors, framed and unframed, not elsewhere specified.	6	97	5	6	5	4	77	De 89	88	84	4				211,715
6	Models and patterns, not including paper patterns.	77	514	100	18	6	15	375	De 433	456	444	8	4			588,442
7	Motorcycles, bicycles, and parts.....	8	3,444	3	126	165	150	3,000	De 3,128	3,128	2,664	377	49	38		10,154,259
8	Mucilage, paste, and other adhesives, not elsewhere specified.	21	236	20	29	37	30	120	Mh 110	133	108	14	10	1		1,177,306
9	Musical instruments and materials, not elsewhere specified.	25	304	22	17	6	13	246	De 272	272	222	36	14			440,430
10	Musical instruments, organs.....	5	166	3	12	3	7	141	De 155	155	145	10				472,119
11	Musical instruments, pianos.....	14	2,419	3	70	67	51	2,228	De 2,394	2,394	2,215	114	57	8		8,545,273
12	Musical instruments, piano and organ materials.	21	1,682	9	51	16	25	1,581	De 1,885	1,810	1,298	412	64	36		3,707,893
13	Piano materials.....	15	1,593	5	38	15	25	1,510	De 1,695	1,723	1,220	403	64	36		3,438,653
14	Organ materials.....	6	89	4	13	1		71	Ap 75	87	78	9				269,240
15	Needles, pins, and hooks and eyes.	7	1,492	1	42	34	40	1,375	De 1,658	1,370	482	850	13	19		4,837,347
16	Oil, not elsewhere specified.....	15	210	7	20	17	20	148		162	147	14	1			2,067,421
17	Animal oils.....	8	90	5	8	5	4	68	De 78	78	78					1,197,922
18	Mineral and composite oils.....	7	120	2	12	16	78	78	De 84	84	69	14	1			889,499
19	Oilcloth, enameled.....	4	375		20	7	0	342	Oc 411	399	331	54	4	10		2,691,690
20	Optical goods.....	29	4,744	15	219	189	239	4,082	De 4,373	4,375	2,294	1,849	123	109		8,636,878
21	Ordnance and accessories.....	4	2,604		128	421	250	1,805	De 3,937	2,080	1,984	95	1			22,690,853
22	Paints.....	19	418	2	36	78	27	275	De 298	311	286	24		1		2,223,528
23	Paper and wood pulp.....	78	14,524	22	432	613	497	12,960		14,115	10,498	3,571	8	38		88,302,209
24	Paper exclusively.....	74	13,602	22	408	589	483	12,100	De 13,223	13,245	9,701	3,498	8	38		81,765,700
25	All other.....	4	922		24	24	14	860	Fe 914	870	797	73				6,536,599
26	Paper goods, not elsewhere specified.	44	2,307	17	93	82	146	1,969	De 2,189	2,126	1,390	674	10	52		8,767,063
27	Patent medicines and compounds.	97	1,072	56	116	118	179	604		659	397	260	7	5		5,884,296
28	Patent and proprietary medicines.	58	700	30	78	83	137	432	No 523	494	273	207	5	4		3,878,191
29	Patent and proprietary compounds, not elsewhere specified.	39	312	26	37	35	42	172	Ja 193	165	119	43	2	1		1,600,105
30	Paving materials.....	27	725	11	37	22	7	648	Se 848	671	671					1,292,736
31	Perfumery and cosmetics.....	13	142	11	17	10	87	87	Ja 95	88	26	58	4			571,230
32	Photo-engraving.....	26	577	16	44	54	41	422	No 477	482	442	27	13			729,787
33	Photographic materials.....	5	56		4		1	50	Jy 53	54	32	13	9			172,623
34	Pickles, preserves, and sauces.	33	646	18	43	63	41	480		524	268	243	9	4		3,100,595
35	Preserves.....	18	575	6	39	61	39	430	De 466	469	237	223	5	4		2,967,654
36	Pickles and sauces.....	15	70	12	4	2	2	50	Jy 69	55	31	20	4			133,341
37	Plated ware.....	7	554	2	16	26	41	469	No 514	498	461	41	5	1		704,940
38	Plumbers' supplies, not elsewhere specified.	12	573	3	28	50	32	460	De 554	555	507	86	11	1		1,161,676
39	Pocketbooks.....	10	442	12	17	18	14	381	De 434	434	116	301	3	14		704,637
40	Pottery.....	8	178	5	9	7	8	149		157	131	23	3			446,619
41	China, earthen, and stone ware..	5	167	2	8	7	7	133	Oc 146	139	122	14	3			430,796
42	All other.....	3	21	3			1	10	No 18	18	9					15,823
43	Printing and publishing, book and job.	768	11,102	705	598	890	1,275	7,634		8,281	5,866	2,125	220	50		31,973,693
44	Job printing.....	698	8,363	652	412	227	398	6,746	De 7,246	7,290	5,189	1,849	204	48		14,103,795
45	Book publishing and printing.....	10	1,402	19	53	286	298	74	Ja 781	753	538	207	7	1		8,222,957
46	Book publishing without printing.	51	1,107	23	119	370	573	17	Ja 18	18	11	5	2			9,297,943
47	Linotype work and typesetting.	9	230	6	14	7	6	197	My 204	200	128	64	7	1		345,998
48	Printing and publishing, music.....	15	325	13	17	75	78	142		142	116	26				1,190,277
49	Printing and publishing.....	4	162	2	5	10	5	140	No 144	140	114	26				442,571
50	Publishing without printing.....	11	163	11	12	65	73	2	(*) 2	2	2					747,706
51	Printing and publishing, newspapers and periodicals.	412	10,405	188	635	2,072	1,625	5,885		6,155	5,077	861	207	10		22,964,161
52	Printing and publishing.....	64	5,385	32	179	1,047	661	3,466	Oc 3,608	3,584	3,043	392	142	7		13,223,657
53	Printing, publishing, and job printing.	164	3,047	101	228	286	401	2,031	De 2,150	2,173	1,074	436	60	3		7,047,821
54	Publishing without printing.....	184	1,973	55	228	739	563	388	My 404	398	360	33	5			2,692,673
55	Printing materials.....	4	42		10	4	3	25	Se 29	29	29					125,060
56	Pulp goods.....	4	80	1	10	3	2	74	Oc 83	81	81	4	2			352,708
57	Pumps, steam.....	7	2,690	1	92	174	143	2,280	Ja 2,881	2,057	1,969	86	2			10,961,491
58	Refrigerators.....	10	132	8	15	13	3	93	Ap 101	83	83					219,398
59	Regalia, and society badges and emblems.	7	134	5	8	6	12	103	Fe 121	101	47	54				228,051
60	Roofing materials.....	8	906	2	37	96	76	695	Se 800	698	674	23	1			4,468,021
61	Rubber tires, tubes, and rubber goods, not elsewhere specified.	47	12,185	7	530	1,404	838	9,406	De 10,804	10,994	9,336	1,520	62	46		64,948,481
62	Saddlery and harness.....	15	168	12	9	2	5	140	My 148	138	121	16	1			405,487
63	Sausage, not made in slaughtering and meat-packing establishments.	56	443	56	19	49	13	306		321	309	10	2			1,020,753
64	Sausage.....	49	384	46	19	36	13	270	De 287	284	274	8	2			954,549
65	Sausage casings.....	7	59		13			36	Ja 37	37	35					72,204
66	Saws.....	15	1,016	12	33	141	77	753	De 889	881	731	109				3,555,046
67	Screws, machine.....	23	680	9	40	9	29	593	Ja 701	696	570	83	41	2		2,063,436
68	Screws, wood.....	3	1,063		74	50	91	848	De 1,119	1,119	938	160	15	6		3,195,478
69	Sewing machines and attachments..	7	1,002	2	27	39	41	893	De 1,003	1,003	932	59	10	2		4,528,910

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

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



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[illegible][illegible]

<sup>4</sup> Same number reported for one or more other months.



TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Average number.	Wage earners.		Total.	16 and over.		Under 16.		
						Male.	Female.		Maximum month.	Minimum month.		Male.	Female.	Male.	Female.	
1	Shipbuilding, wooden, including boat building.	55	1,073	50	41	31	23	928			582	581	1			Dollars. 2,573,693
2	New vessels.....	14	848	9	27	27	13	772	Ja 1,150	Se 402	429	429				2,043,818
3	Repair work only.....	19	107	17	9	1	3	77	Ja 131	De 62	64	64				311,819
4	Small boats.....	17	90	19	4	3	5	59	Je 78	Ja 41	68	68				111,680
5	Masts, spars, oars, and rigging.....	5	28	5	1		2	20	Se 23	Ja 16	21	20	1			108,376
6	Shirts.....	12	1,153	10	22	16	15	1,090	De 1,146	Au 1,016	1,146	177	962	1	6	1,993,069
7	Show cases.....	8	63	8	3	2	4	46	Jy 50	Ja 41	43	41	1	1		147,059
8	Signs and advertising novelties.....	21	395	12	29	23	22	309	Jy 159	Ja 112	147	135	10	1	1	517,028
9	Electric and other signs.....	15	199	8	22	13	12	144	De 210	Fe 140	210	88	92	3	27	261,869
10	Advertising novelties.....	6	196	4	7	10	10	165			210	88	92	3	27	255,159
11	Silk goods, including throwsters.....	21	6,141	14	139	178	113	5,697			6,813	2,518	3,880	131	284	26,614,191
12	Finished products.....	15	4,499	10	90	107	89	4,143	De 4,554	Ja 3,634	4,590	1,378	2,843	110	259	20,251,004
13	Throwsters and winders.....	6	1,642	4	49	11	24	1,554	De 2,223	Fe 956	2,223	1,140	1,037	21	25	6,353,187
14	Silversmithing and silverware.....	18	2,180	7	61	114	122	1,876	Oc 2,038	Ja 1,501	2,035	1,595	365	51	24	8,058,938
15	Slaughtering and meat packing.....	40	4,926	33	87	391	108	4,307	Ja 5,354	No 1,501	3,981	3,868	105	8		42,216,147
16	Soap.....	27	1,583	18	108	284	185	1,008	No 1,274	Ap 786	1,189	783	370	10	28	14,902,772
17	Sporting and athletic goods.....	14	1,582	6	58	50	71	1,397	De 1,681	Ja 1,123	1,684	1,178	444	47	15	4,553,109
18	Springs, steel, car and carriage, not made in steel works or rolling mills.	7	77	8	9	6	3	51			58	58				192,953
19	Automobile.....	4	23	2	3	4	2	12	No 16	Ja 9	17	17				85,504
20	All other.....	3	54	6	6	2	1	30	Ja 41	Ap 36	41	41				107,449
21	Stamped ware, not elsewhere specified.	19	807	6	67	28	30	676	De 800	My 611	806	730	51	23	2	1,998,685
22	Stationary goods, not elsewhere specified.	30	4,232	14	190	389	325	3,305	De 3,628	Ap 3,077	3,628	1,402	2,092	44	90	8,878,995
23	Statuary and art goods.....	11	81	11	6		2	62	De 69	Ja 55	69	69				164,130
24	Steam fittings and steam and hot-water heating apparatus.	23	4,885	12	218	231	853	3,521	De 3,902	Jy 3,121	3,904	3,694	198	12		12,883,986
25	Steam packing.....	9	147	5	17	17	13	95	No 123	My 79	106	83	22	1		415,602
26	Stencils and brands.....	12	47	11	5	2	1	28	De 33	Ja 25	33	33				49,453
27	Stereotyping and electrotyping.....	9	250	7	17	11	11	204	De 227	Ja 179	226	202	16	8		290,680
28	Stoves and hot-air furnaces.....	15	1,567	2	56	79	44	1,386	De 1,540	Fe 1,242	1,540	1,543	5	13		4,757,077
29	Stoves and ranges.....	12	1,550	1	53	79	42	1,375	De 1,540	Fe 1,242	1,540	1,531	5	13		4,657,683
30	Hot-air furnaces.....	3	17	1	3		2	11	Ja 14	Ap 8	12	12				99,694
31	Stoves, gas and oil.....	4	526		30	47	44	405	De 525	My 314	525	478	31	10	6	1,557,890
32	Structural ironwork, not made in steel works or rolling mills.	55	1,498	36	119	93	62	1,188	De 1,314	Je 1,035	1,312	1,308	3	1		4,590,886
33	Surgical appliances.....	14	755	8	28	30	80	609	Ja 943	My 464	578	258	286	5	29	3,744,244
34	Suspenders, garters, and elastic woven goods.	29	3,317	19	118	99	116	2,965	De 3,282	Fe 2,733	3,282	1,020	2,130	27	105	10,155,302
35	Textile machinery and parts.....	116	19,378	71	490	801	543	17,413	Oc 19,297	Ap 16,399	19,254	17,614	1,058	252	30	76,759,604
36	Tinware, not elsewhere specified.	16	1,051	13	33	47	43	915	Ja 988	Au 832	943	750	183	10		3,713,249
37	Tobacco, cigars and cigarettes.....	202	3,418	277	83	77	35	2,946			4,698	3,503	1,132	2	1	6,097,133
38	Cigars.....	254	3,386	272	81	77	33	2,923	Fe 3,389	Jy 1,858	4,676	3,550	1,123	2	1	5,944,076
39	Cigarettes.....	8	32	5	2		2	23	Ap 24	Oc 26	21	22	13			152,158
40	Tobacco, smoking, and snuff.....	7	43	5	5	2	1	30	De 36	My 26	36	23	9	1		184,810
41	Tools, not elsewhere specified.	117	8,552	99	339	397	491	7,226			7,575	6,637	773	113	52	32,682,525
42	Machinists' tools.....	40	4,403	28	123	157	305	3,790	De 3,910	My 3,710	3,898	3,327	463	62	46	19,540,897
43	All other.....	77	4,149	71	216	240	186	3,436	De 3,615	Je 3,348	3,677	3,310	310	51	6	13,135,658
44	Toys and games.....	30	1,860	16	74	28	100	1,042	Jy 1,885	Ja 1,280	1,655	843	637	73	102	3,723,134
45	Trunks and valises.....	26	753	28	35	47	29	614	Se 702	Ja 504	684	480	180	12	12	1,487,314
46	Umbrellas and canes.....	7	71	8	3	4	6	50	No 82	Ja 21	83	37	45	1		1,869,215
47	Upholstering materials, not elsewhere specified.	6	164	5	10	2	8	139			170	167	3			1,269,040
48	Imitation leather and leatheroid.....	3	133		9	1	7	116	De 148	Ja 97	148	147	1			1,203,044
49	All other.....	3	31	5	1	1	1	23	Ja 27	Jy 20	22	20	2			65,696
50	Varnishes.....	14	556	3	52	119	66	316	Fe 342	Jy 277	306	272	34			4,097,928
51	Vinegar and cider.....	75	204	36	11	5	13	89			215	173	39	3		820,402
52	Vinegar.....	6	35	6		4	25	64	Oc 47	Ja 15	25	24		1		348,518
53	Cider.....	69	169	80	11	5	9	64	Oc 162	Ap 30	190	149	39	2		471,884
54	Waste.....	6	144	2	16	3	9	114	No 124	Jy 107	118	88	30			1,097,093
55	Watch and clock materials, except watch cases.	6	261	7	4	2	12	238	No 266	Ja 214	259	69	180	8	2	402,039
56	Whips.....	15	804	16	22	100	40	626	De 651	Ap 604	651	431	192	15	13	2,322,365
57	Window and door screens and weather strips.	17	88	16	3	5	4	60			51	48	2	1		171,927
58	Window and door screens.....	13	84	15	3	5	3	58	Jy 95	Fe 35	48	45	2	1		160,590
59	Weather strips.....	4	4	1			1	2	Ja 3	Ap 1	3	3				11,337
60	Window shades and fixtures.....	11	91	10	5	7	1	68	De 83	Se 55	83	60	21	1		295,634
61	Wire.....	9	5,715	4	89	239	180	5,203	De 5,905	Je 4,910	5,905	5,525	325	37	18	22,027,351
62	Wirework, not elsewhere specified.	27	1,706	13	53	82	82	1,470	Ja 1,569	Jy 1,396	1,552	1,074	405	50	23	6,280,191
63	Wood, turned and carved.....	46	832	47	19	11	13	742	De 785	Je 698	786	699	42	45		1,387,217
64	Wooden goods, not elsewhere specified.	15	400	16	17	14	12	341	Ap 349	Se 333	348	32	23	5		1,011,261

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



# MANUFACTURES—MASSACHUSETTS.

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COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars. 127,831	Dollars. 48,762	Dollars. 1,401,973	Dollars. 4,657	Dollars. 24,166	Dollars. 64,100	Dollars. 1,954,938	Dollars. 22,783	Dollars. 4,191,573	Dollars. 2,213,852	2,074	653		251		1,170		1
97,041	39,749	1,210,331	4,589	13,729	55,956	1,765,044	15,286	3,653,598	1,872,668	1,549	473		115		961		2
22,705	2,733	97,859	68	6,462	5,748	84,186	4,466	251,580	162,928	348	180		98		70		3
7,175	4,546	73,431		3,183	1,431	70,572	1,433	200,732	128,727	112			38		74		4
820	1,724	20,352		792	1,025	34,556	1,598	85,663	49,529	65					65		5
36,889	24,303	731,207	77,998	12,702	64,451	2,847,727	16,893	5,107,697	2,243,077	407	365				42	127	6
9,434	8,608	59,443		5,162	803	183,052	4,851	298,872	109,409	117			25		92		7
70,772	89,426	318,041	12,649	20,486	8,226	336,434	7,076	1,059,662	717,152	198					108		8
50,722	87,199	193,599	11,641	14,742	5,120	159,884	8,190	633,983	470,959	61					61		9
20,050	52,227	124,442	1,108	5,744	3,106	175,600	5,888	425,679	246,193	137					137		10
574,927	560,575	5,039,001	1,370,674	15,689	797,824	19,000,721	242,762	34,193,951	14,950,468	9,811	2,469		660	1,749	4,933	1,450	11
472,828	501,643	3,676,700	1,344,488	11,292	525,643	13,673,326	152,507	25,810,966	11,985,073	6,364	1,609		635	1,299	2,511	1,152	12
102,099	59,032	1,402,901	20,186	4,397	272,181	5,627,895	90,195	8,382,985	2,905,395	3,457			25	450	2,122	307	13
273,830	422,932	1,976,151	6,114	15,974	141,851	3,732,455	98,699	8,484,941	4,653,757	1,843	1,070			200	573	610	14
350,184	686,928	5,391,004	109,110	55,756	642,081	100,653,710	581,630	110,238,038	9,002,698	8,050	3,345	410	14		4,281	268	15
367,966	391,135	984,138		22,507	1,104,860	10,847,792	325,440	18,729,572	7,556,340	2,785	597				2,188	70	16
131,948	153,533	1,247,670	41,912	6,739	106,803	2,938,946	64,556	6,774,346	2,770,844	1,912	520		14	369	1,018	250	17
24,448	6,065	60,058		3,438	1,797	77,408	6,887	216,569	132,274	156					156		18
5,424	2,454	13,947		1,478	258	40,690	1,728	73,975	31,557	53					53		19
19,024	3,611	46,111		1,990	1,539	36,713	5,159	142,594	100,717	103					103		20
272,193	69,310	768,775	836	29,057	91,886	1,042,138	38,442	2,630,607	1,550,027	903	250				658	5	21
769,453	1,089,209	2,619,462	89,484	98,075	700,378	7,167,757	97,260	15,161,819	7,899,802	1,500	365		18	210	907	280	22
11,180	1,970	84,826	1,318	8,259	3,174	44,435	1,080	208,295	162,780	13					13		23
676,504	569,656	3,967,954	1,907	14,668	609,683	5,136,372	307,743	13,472,559	8,028,444	4,795	1,254		1		3,540	811	24
70,562	40,342	107,658		3,380	15,233	246,999	15,512	658,389	323,876	178	55				123		25
12,287	3,895	27,538		6,788	1,061	22,776	1,570	106,176	51,232	17					17		26
62,908	19,606	245,810		18,249	2,809	125,734	18,527	646,364	502,103	584					584		27
209,666	230,632	1,785,095		5,013	176,310	1,550,900	119,952	5,577,181	3,908,329	2,429	1,002			10	1,417	57	28
203,806	229,934	1,771,435		4,305	176,718	1,616,905	119,813	5,600,499	3,874,281	2,418	1,002			10	1,406	57	29
6,860	998	13,660		648	592	34,995	639	37,682	32,048	11					11		30
123,872	92,330	475,532		4,483	120,398	592,579	19,489	1,934,867	1,322,199	544	148				396		31
444,072	223,282	1,509,096	43,671	34,700	138,433	3,251,533	95,368	6,686,528	3,339,627	2,454	480		150		1,824	480	32
145,699	118,247	531,904	85,432	25,834	42,012	4,302,808	43,312	6,571,531	2,225,911	728	300				428	124	33
551,715	313,490	2,469,632	142,534	48,355	657,456	8,214,929	136,106	14,971,600	6,620,665	1,956	1,133			40	783	234	34
2,209,299	1,545,893	20,712,227	81,603	66,712	3,655,976	22,633,109	844,263	65,901,370	42,423,998	22,402	12,134	1,250	230	1,816	6,972	6,434	35
95,508	102,657	968,359		37,713	180,422	2,439,196	27,425	4,589,881	2,023,260	434	120				308	75	36
200,308	130,435	3,527,209	545	97,510	1,429,607	4,836,159	20,298	11,560,443	6,703,986	172					148		37
197,716	135,426	3,806,947	545	98,476	1,405,303	4,707,602	19,878	11,362,948	6,635,470	165					141		38
2,587	1,010	20,262		4,035	24,604	128,557	422	197,495	68,516	7					7		39
19,400	3,400	27,153		2,540	74,876	126,921	1,209	330,921	202,791	143	25			100	18		40
1,234,406	1,117,273	8,393,949	58,873	82,022	2,352,462	7,456,743	530,674	29,158,834	21,171,417	14,607	2,930	685	102	1,713	9,177	935	41
575,193	635,846	4,321,030	45,424	29,328	2,002,238	3,208,251	208,636	15,084,676	11,667,789	5,293	1,600	35		498	3,160	775	42
659,243	581,427	4,042,919	13,449	52,694	850,224	4,248,492	322,038	14,074,158	9,603,628	9,314	1,330	650	102	1,215	6,017	160	43
271,536	125,003	1,100,781	20,699	19,583	110,310	1,841,605	51,470	4,704,260	2,811,185	1,716	610			185	921	15	44
109,556	133,687	541,587	1,105	20,660	64,532	1,842,242	7,909	3,206,473	1,356,322	88					88		45
3,915	4,219	38,832		5,900	1,549	272,168	2,062	435,290	160,460	63					63		46
37,536	8,759	157,303		1,867	33,354	917,400	38,289	1,467,640	510,971	766	135			187	444		47
35,985	6,519	136,030		667	32,390	887,979	34,966	1,375,055	472,110	644	90			187	387		48
1,800	2,240	21,273		1,200	964	49,421	4,303	92,585	38,861	122	45			20	57		49
279,919	300,279	302,983		4,421	380,194	3,569,244	31,802	6,159,199	2,558,153	557	9				548		50
27,300	12,143	99,406	346	4,022	21,500	706,961	14,205	1,263,902	542,766	1,140	299		249	317	275		51
	2,772	31,456		1,112	1,989	252,870	3,282	384,065	127,913	140	110				30		52
27,300	9,371	67,949	346	3,910	19,531	454,061	10,923	879,837	414,853	1,000	189		249	317	245		53
84,629	12,554	101,887		13,775	11,141	1,408,960	17,487	1,751,743	325,296	770	225			375	170		54
6,366	10,047	160,494	340	615	4,560	67,013	8,229	339,027	283,785	53					6		55
111,587	303,684	496,013	12,287	15,579	49,858	938,809	28,793	2,685,313	1,717,711	750	130		40	35	545	1	56
5,980	9,664	55,596	100	4,222	1,951	78,529	4,060	202,753	120,174	231	70		60	40	61		57
5,980	9,144	53,232	100	2,062	1,879	74,270	3,707	192,311	114,334	221	70			58	40	53	58
	523	2,304		1,160	72	4,259	343	10,442	5,840	10					8		59
11,453	11,890	59,650	493	4,196	1,982	340,994	2,169	542,033	189,870	166					130	36	60
409,217	737,190	7,353,067	4,386	46,222	469,923	10,774,689	1,098,930	24,552,410	12,678,791	24,799	7,577	2,210		200	14,812	6,327	61
217,034	220,270	1,398,578	1,015	29,603	153,413	1,613,009	93,454	4,513,865	2,812,402	1,699	1,122				573	1,060	62
84,883	29,101	612,245	896	9,514	61,861	983,336	18,476	2,256,046	1,254,234	1,979	1,187		71	315	406	118	63
40,876	28,216	338,436	1,457	7,233	31,762	602,840	14,152	1,331,738	714,746	1,682	1,107		12	430	133	200	64



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

															Dollars.
1	Wool scouring.....	13	1,074	4	43	9	6	1,012	De 1,195	Mh 758	1,195	1,161	34	.....	2,679,702
2	Wool shoddy.....	23	740	16	53	32	16	623	De 677	Fe 578	711	609	65	2	4,731,554
3	Woolen goods.....	111	13,664	50	625	202	219	17,568	Se 20,235	Fe 12,544	20,242	13,950	5,833	241	77,495,511
4	Worsted goods.....	71	37,997	32	789	385	495	36,206	De 43,872	Fe 23,755	43,245	22,629	17,905	1,124	190,363,441
5	All other industries*.....	172	40,618	66	899	1,608	1,197	36,786	.....	.....	.....	.....	.....	.....	145,814,475

* All other industries embrace—	Candles.....	2	Coke, not including gas-house coke.....	1	Files.....	3
Aeroplanes, seaplanes, and airships, and parts.....	Canning and preserving, fruits.....	2	Collars and cuffs, men's.....	2	Fire extinguishers, chemical.....	2
Agricultural implements.....	Cardboard, not made in paper mills.....	2	Condensed milk.....	2	Fireworks.....	5
Artificial flowers.....	Cars, steam-railroad, not including operations of railroad companies.....	2	Crucibles, graphite.....	1	Furs, dressed.....	2
Asbestos products, not including steam packing.....	Cash registers and calculating machines.....	3	Dairymen's and poultrymen's supplies.....	4	Galvanizing.....	2
Babbitt metal and solder.....	Charcoal, not including production in the lumber and wood distillation industries.....	2	Drug grinding.....	4	Gas machines and gas and water meters.....	3
Baking powders.....	Cheese.....	1	Engines, steam, gas, and water.....	3	Glass.....	1
Bluing.....	Chewing gum.....	2	Engravers' materials.....	4	Gloves and mittens, cloth, not including gloves made in textile mills.....	2
Bone black and lampblack.....	.....	1	Engraving, wood.....	1	.....	1
Butter, reworking.....	.....	2	Explosives.....	2	Glucose and starch.....	1
			Fertilizers.....	2		

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

1	BOSTON—All industries.....	3,077	110,713	2,436	4,691	8,205	6,622	88,759	De 93,522	Je 85,220	95,495	62,165	30,113	1,349	1,808	351,261,054
2	Artificial limbs.....	6	38	3	5	3	3	24	Au 27	De 20	20	20	.....	.....	.....	96,631
3	Artificial stone products.....	4	82	4	4	4	2	68	Se 72	Je 66	66	66	.....	.....	.....	120,197
4	Automobile bodies and parts.....	22	320	16	18	10	13	257	De 304	Ja 218	305	303	2	.....	.....	631,091
5	Automobile repairing.....	82	779	16	14	44	21	934	Je 738	Fe 574	707	691	15	1	.....	795,672
6	Awnings, tents, and sails.....	21	226	19	16	8	15	168	Je 236	Fe 119	150	94	56	.....	.....	442,982
7	Belting, leather.....	3	64	.....	10	10	5	39	No 42	Ap 35	40	38	1	1	.....	552,552
8	Blacking, stains, and dressings.....	14	194	10	14	12	14	114	Se 119	Ja 97	121	75	43	1	2	603,778
9	Bookbinding and blank-book making.....	52	1,412	40	87	62	51	1,212	No 1,265	Ja 1,135	1,275	524	703	31	17	1,330,025
10	Boot and shoe cut stock.....	23	1,122	14	50	53	28	977	Jy 1,059	Ja 922	920	789	53	75	3	10,661,723
11	Boot and shoe findings.....	20	601	7	40	27	19	408	Se 447	Ja 345	425	243	172	6	4	1,528,005
12	Boots and shoes, not including rubber boots and shoes.....	14	7,097	2	136	810	508	6,146	My 6,941	Je 4,803	6,473	3,095	2,615	377	386	18,789,753
13	Boxes, set-up paper boxes and cartons.....	21	1,077	15	48	9	34	971	No 1,050	Ja 839	1,066	268	697	18	83	1,148,835
14	Brass, bronze, and copper products.....	24	270	20	21	6	5	218	De 237	My 205	237	237	.....	.....	.....	448,238
15	Bread and other bakery products.....	306	3,588	318	50	334	88	2,798	De 2,979	Ja 2,613	2,986	1,977	996	6	7	4,938,685
16	Brushes.....	10	815	9	23	24	37	722	De 848	Ap 617	850	377	473	.....	.....	3,193,109
17	Buttons.....	6	31	5	1	.....	4	21	My 27	Fe 16	21	7	14	.....	.....	11,487
18	Canning and preserving, fish.....	6	137	2	8	7	5	115	Oc 107	Ja 95	122	67	53	.....	2	361,936
19	Carriages and wagons, including repairs.....	8	210	8	11	7	3	181	Mh 205	Ja 144	178	178	.....	.....	.....	234,102
20	Cars and general shop construction and repairs by steam-railroad companies.....	6	1,955	.....	40	51	4	1,860	Fe 1,047	Au 1,809	1,923	1,885	38	.....	.....	1,856,997
21	Chemicals.....	7	81	2	12	11	11	55	De 81	Ja 33	81	62	18	1	.....	420,420
22	Chocolate and cocoa products.....	3	1,823	.....	25	111	43	1,644	Jy 1,795	My 1,480	1,643	1,103	429	1	10	11,515,501
23	Cleansing and polishing preparations.....	14	71	6	8	14	12	31	.....	.....	31	22	8	1	.....	340,909
24	Metal polish.....	6	29	3	1	6	5	14	Ja 15	Je 12	13	5	7	1	.....	33,379
25	All other.....	8	42	3	7	8	7	17	Jy 18	Au 15	18	17	1	.....	.....	307,630
26	Clothing, men's.....	102	5,190	193	126	209	126	4,536	Oc 2,923	Ja 1,943	5,128	2,695	2,390	8	35	15,535,165
27	Men's and youths'.....	52	2,918	59	84	154	75	2,546	De 1,137	Ja 834	2,917	1,725	1,172	3	17	8,883,284
28	All other.....	37	1,178	39	42	54	48	995	De 1,050	Je 940	1,155	393	748	2	12	6,511,508
29	Contract work.....	73	1,094	85	.....	1	3	995	.....	.....	1,056	577	470	3	6	140,318
30	Clothing, women's.....	173	4,580	201	146	182	169	3,852	Oc 882	Ja 655	3,913	1,086	2,770	1	56	6,501,883
31	Suits, skirts, and cloaks.....	39	937	58	26	40	35	788	Mh 2,046	De 1,692	799	664	233	.....	2	1,503,337
32	Shirt waists, dresses, and wrap-pers.....	62	2,227	70	67	93	83	1,914	.....	.....	1,777	278	1,468	.....	31	2,740,070
33	Undergarments and petticoats.....	21	513	23	16	16	20	488	De 400	Ja 393	490	67	403	.....	14	1,347,546
34	All other.....	36	787	36	30	32	27	656	Oc 743	Ja 530	755	113	639	.....	9	884,632
35	Contract work.....	15	116	19	1	1	4	91	No 118	Je 64	92	64	27	1	.....	16,789
36	Coffee and spice, roasting and grinding.....	14	785	15	36	197	56	481	Au 521	Mh 449	516	316	194	.....	7	5,436,919
37	Confectionery and ice cream.....	68	9,438	47	343	398	392	8,258	Oc 8,952	Jy 7,166	8,385	2,343	5,035	172	835	13,859,508
38	Confectionery.....	54	9,318	35	338	397	388	8,160	Jy 121	Ja 83	8,300	2,262	5,031	172	835	13,348,563
39	Ice cream.....	14	120	12	5	1	4	98	De 936	My 744	85	81	4	.....	.....	510,945
40	Copper, tin, and sheet-iron work.....	50	1,172	51	99	104	104	814	Au 60	Se 39	940	895	32	11	2	2,144,093
41	Cordials and flavoring sirups.....	8	94	3	12	11	15	63	De 893	Oc 853	51	81	20	.....	.....	522,869
42	Cotton goods.....	9	943	1	36	22	10	874	Fe 1,766	Au 1,168	896	385	446	34	31	4,581,709
43	Druggists' preparations.....	9	2,141	2	81	229	432	1,397	De 67	Ja 47	1,517	726	785	3	3	14,650,290
44	Dyestuffs and extracts—natural.....	11	109	6	10	19	11	57	.....	.....	59	59	.....	.....	.....	655,685
45	Electrical machinery, apparatus, and supplies.....	32	3,084	12	127	211	209	2,625	Ja 2,879	Se 2,304	2,627	1,618	971	33	5	9,381,830
46	Electroplating.....	21	187	24	3	6	5	90	De 124	Ja 80	124	117	1	6	.....	96,961
47	Engraving and diesinking.....	14	87	14	1	5	6	61	De 64	Ja 57	65	52	7	6	.....	69,280
48	Engraving, steel and copper plate, including plate printing.....	17	400	11	14	13	25	337	Oc 417	Fe 299	358	154	165	16	23	355,869

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

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



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.			Rent. <sup>2</sup>	
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>		

## THE STATE—ALL INDUSTRIES COMBINED AND SPECIFIED INDUSTRIES—Continued.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.						
212,785	19,370	1,497,574	1,805	17,925	210,307	833,883	211,312	3,069,320	2,610,125	4,628	2,295	80	875	1,458	150	1
281,003	55,517	684,722	363,052	5,484	199,737	3,573,404	126,404	5,514,555	1,814,747	4,419	1,660	60	905	1,794	265	2
2,925,847	589,723	19,799,579	3,531,027	40,019	5,531,027	60,372,200	1,721,258	105,183,068	43,089,550	50,100	21,609	3,290	30	10,019	12,152	3
3,920,044	1,334,287	36,949,984	102,691	102,691	11,505,350	145,340,845	4,275,098	237,443,077	86,826,534	128,630	37,424	63,724	12,069	15,413	66,180	4
3,794,226	5,470,652	51,522,134	417,775	169,010	3,151,059	105,849,585	6,009,996	192,613,139	80,753,558	62,531	21,400	8,767	615	13,838	17,911	5

Graphite, ground and refined	1	Labels and tags	7	Phonographs and graphophones	2	Sulphuric, nitric, and mixed acids	1
Hammocks	1	Lead, bar, pipe, and sheet	2	Pipes, tobacco	2	Theatrical scenery	1
Hats, fur-felt	3	Lubricating greases	2	Pumps, not including power pumps	1	Type founding	3
Hats, wool-felt	2	Matches	1	Sand and emery paper and cloth	1	Typewriter supplies, carbon paper and ribbon	3
Horseshoes, not made in steel works or rolling mills	1	Nets and seines	3	Sand-lime brick	2	Vault lights and ventilators	2
Ink, printing	3	Oleomargarine and other butter substitutes	2	Scales and balances	1	Wall paper, not made in paper mills	2
Ink, writing	6	Paper patterns	1	Shipbuilding, steel	4	Washing machines and clothes wringers	1
Iron and steel, blast furnaces	1	Peanuts, grading, roasting, cleaning, and shelling	1	Smelting and refining, not from the ore	4	Watches	5
Iron and steel, cast-iron pipe	1	Pens, fountain and stylographic	3	Soda-water apparatus	2		
Iron and steel, doors and shutters	1	Pens, gold	2	Sugar, refining, not including beet sugar	2		
Jute goods	2						

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

18,830,158	20,452,238	96,401,002	9,360,340	5,386,604	20,814,410	343,354,555	6,251,336	618,921,962	269,316,071	101,604	39,042	4,137	1,398	595	56,432	10,607	1
7,221	6,258	21,817	4,407	359	21,386	1,081	90,188	67,719	24	24	50	8	150	324	54	13	
9,620	5,940	30,378	4,080	3,820	139,689	3,354	288,667	145,624	109	109	1,260	15	150	300	5	14	
70,568	26,184	326,074	3,385	32,442	306,144	16,669	917,778	594,965	265	265	510	22	22	57	18	19	
35,026	91,564	929,593	5,712	91,154	49,424	23,313	2,544,072	1,746,060	309	309	5	46	45	86	10		
38,289	24,857	156,264	30	29,606	9,754	3,281	877,334	373,011	55	55	15	22	45	118	31		
77,787	27,693	45,431	10,550	18,679	1,125,822	2,927	1,455,088	328,339	55	55	15	22	45	118	31		
104,514	91,576	106,801	5,680	15,279	32,551	12,867	1,402,607	659,850	228	228	145	22	45	118	31		
146,789	115,000	1,032,428	8,331	94,403	17,947	853,609	24,245	2,786,986	1,009,132	520	245	22	45	118	31		
377,551	181,139	974,218	8,331	106,209	202,184	30,845,332	54,238	35,443,382	5,043,812	634	245	22	45	118	31		
132,464	61,808	364,145	1,826	46,089	45,183	2,187,773	30,124	3,456,700	1,238,863	686	250	22	45	118	31		
716,985	1,023,808	6,299,718	90	70,948	538,524	16,028,460	123,008	27,526,886	11,372,418	3,762	1,250	22	45	118	31		
122,468	63,280	684,715	69,934	70,896	924,254	20,104	2,313,635	1,369,277	474	150	150	15	150	300	5	14	
72,721	13,530	304,036	3,718	10,646	20,895	691,296	34,086	1,410,098	684,716	244	50	8	150	300	5	14	
244,454	600,430	2,087,285	1,784	271,789	394,272	12,580,383	307,334	21,680,632	8,783,915	2,413	1,260	15	150	300	5	14	
163,028	90,481	603,134	10,532	33,811	186,205	1,847,337	28,568	3,501,597	1,625,702	522	510	15	150	300	5	14	
1,660	2,236	14,897	2,870	176	4,900	180	39,177	39,177	5	5	46	22	45	118	31		
19,990	15,190	98,035	7,100	4,709	554,480	8,266	787,323	224,577	125	125	46	22	45	118	31		
33,878	12,015	213,365	16	12,294	3,350	172,093	11,613	543,633	359,937	156	25	22	45	118	31		
96,924	72,696	2,600,623	14,866	1,851,059	91,996	4,728,165	2,785,110	700	342	6	352	113	20				
23,227	20,264	67,081	21,497	4,058	226,914	11,020	357,085	119,151	467	467	2,150	150	300	1,346	31	22	
271,969	389,097	1,577,518	37,289	720,624	18,874,202	205,578	24,277,494	5,197,714	3,946	3,946	55	55	55	55	55	55	
30,443	59,297	31,369	2,807	8,915	10,316	1,595	672,773	392,802	55	55	3	3	3	3	3	3	
2,800	12,830	11,991	3,785	570	43,576	553	99,690	56,080	3	3	52	52	52	52	52	52	
27,643	40,467	19,378	1,707	5,130	9,746	235,319	1,042	573,083	339,722	52	450	150	150	150	150	150	
590,247	667,897	5,517,909	2,536,782	200,650	289,680	17,121,562	99,662	31,337,508	14,116,284	1,075	275	275	275	275	275	275	
441,556	504,764	3,296,685	2,499,591	182,924	163,235	13,126,088	36,884	23,254,361	10,091,419	555	175	175	175	175	175	175	
148,691	158,823	945,048	5,214	40,078	125,576	3,952,269	46,268	6,417,408	2,418,871	366	154	154	154	154	154	154	
4,310	1,276,176	31,977	37,648	869	43,205	16,510	1,065,709	1,005,994	154	154	320	2	2	2	2	2	
395,091	545,818	3,966,177	632,722	262,102	83,282	12,046,246	59,108	20,655,935	8,550,581	1,010	310	2	2	2	2	2	
58,557	106,115	1,176,104	42,089	56,264	7,541	3,064,082	11,449	5,378,045	2,302,614	120	310	2	2	2	2	2	
182,720	297,317	1,719,444	116,275	38,794	4,875,138	27,937	8,532,342	3,629,267	604	604	10	10	10	10	10	10	
71,268	75,765	419,036	134,849	31,754	23,137	2,566,407	7,712	3,839,969	1,265,850	120	10	10	10	10	10	10	
100,732	64,126	535,756	18,089	48,961	13,607	1,477,765	10,396	2,655,662	1,167,501	147	19	19	19	19	19	19	
1,805	2,495	115,837	8,858	203	62,854	1,614	240,917	185,449	19	19	480	40	40	612	536	36	
256,966	495,701	449,362	95,884	107,239	13,360,511	57,837	16,239,448	2,820,900	1,182	1,182	2,986	810	810	2,986	810	2,986	
1,329,910	1,195,797	5,791,608	1,370	487,935	2,521,902	26,062,513	355,743	46,096,820	19,678,564	6,485	2,986	810	810	2,986	810	2,986	
1,316,990	1,190,361	5,658,434	1,370	478,667	2,513,534	25,447,883	327,259	45,103,479	19,328,337	6,132	2,986	810	810	2,986	810	2,986	
12,920	5,436	123,174	9,268	8,368	614,630	28,484	993,341	350,227	347	347	180	150	150	150	150	150	
310,204	169,389	1,029,090	16,340	50,808	35,185	1,470,863	37,136	4,619,480	3,105,451	1,095	102	102	102	102	102	102	
72,982	31,480	48,079	4,000	15,131	10,960	680,783	3,982	922,578	327,813	102	725	1,500	200	543	21	508	
159,086	90,259	714,939	14,402	17,945	215,424	2,439,506	87,305	4,407,623	1,850,809	2,068	550	54	25	197	40	45	
682,503	690,571	1,150,651	8,800	764,714	4,240,920	30,007	8,661,345	4,390,413	508,951	581	54	25	197	40	45	45	
53,569	39,160	75,233	11,298	34,832	800,206	13,497	1,322,634	508,951	276	276	655	75	75	1,196	40	45	
565,351	528,087	2,469,587	19,545	71,454	532,813	4,233,132	110,798	10,671,247	6,327,317	1,936	133	27	10	70	27	47	
12,674	8,825	123,074	2,676	18,847	1,188	52,632	7,353	296,386	236,371	133	27	10	70	27	47	47	
3,017	11,017	71,119	4,671	8,267	33,181	1,802	153,066	153,066	153,066	27	10	70	27	47	47	47	
77,715	36,597	314,506	9,074	26,230	24,983	207,315	5,536	967,330	784,476	80	10	70	27	47	47	47	

\* Same number reported for one or more other months.



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

BOSTON—Continued.															Dollars.	
1	Fancy articles, not elsewhere specified.	15	235	12	16	28	29	150	-----	-----	187	46	134	1	6	392,821
2	Metal and paper novelties.	8	183	7	9	24	27	116	Oc 155	Ja 91	140	29	104	1	0	300,675
3	All other.	7	52	5	7	4	2	34	No 49	Ja 20	47	17	30	-----	-----	92,146
4	Flavoring extracts.	13	133	6	20	31	9	67	Oc 83	Ja 59	81	38	42	1	-----	501,526
5	Food preparations, not elsewhere specified.	29	688	24	37	57	68	502	-----	-----	528	379	135	10	4	2,773,729
6	Breadstuffs, macaroni, vermicelli, and noodles.	12	239	13	12	8	13	193	No 209	Fe 178	207	171	25	9	2	1,078,812
7	All other.	17	449	11	25	40	55	309	Ja 410	An 210	321	208	110	1	2	1,694,917
8	Foundry and machine-shop products.	141	8,403	78	399	583	416	6,987	-----	-----	7,004	6,886	138	30	-----	26,242,993
9	Boiler shops.	4	250	-----	16	6	5	223	No 237	An 175	232	231	1	-----	-----	615,348
10	Machine shops.	128	6,918	75	324	534	383	5,602	Ja 6,512	Jy 5,202	5,513	5,304	123	26	-----	21,949,653
11	All other.	9	1,295	3	59	43	28	1,162	De 1,259	Je 1,040	1,259	1,241	14	4	-----	3,677,982
12	Fur goods.	18	364	18	15	37	12	232	De 330	Mh 242	330	168	171	1	-----	1,066,087
13	Furnishing goods, men's, neckwear.	11	275	14	9	27	18	207	De 235	Ja 178	235	42	191	2	-----	873,323
14	Furniture.	61	1,267	54	69	69	45	1,030	-----	-----	1,238	1,136	81	19	2	2,438,906
15	Wood, other than rattan and willow.	45	766	46	38	35	20	617	No 715	Ja 484	713	671	35	7	-----	1,286,322
16	Rattan and willow.	5	118	2	9	4	7	96	De 114	Fe 86	114	74	38	2	-----	224,314
17	Metal.	4	147	2	7	16	5	117	No 125	Ja 101	124	112	2	8	2	383,567
18	Store and office fixtures.	7	246	4	15	14	13	200	De 287	My 117	287	279	6	2	-----	594,703
19	Gas and electric fixtures.	4	35	3	2	1	2	27	No 82	Ja 24	33	31	1	1	-----	66,348
20	Glass, cutting, staining, and ornamenting.	15	110	13	4	3	4	86	De 98	Ja 71	101	98	2	1	-----	121,251
21	Glue, not elsewhere specified.	3	103	-----	11	1	4	87	De 94	Se 78	94	94	-----	-----	-----	1,577,208
22	Gold, leaf and foil.	5	40	0	-----	-----	-----	34	Ap 36	Ja 30	36	26	10	-----	-----	81,234
23	Grease and tallow, not including lubricating greases.	3	187	1	11	13	5	157	De 175	Je 150	175	166	8	1	-----	895,129
24	Hand stamps.	10	65	11	5	5	2	42	No 44	Fe 40	43	38	3	2	-----	89,193
25	Hardware.	13	91	10	10	1	0	64	No 81	Ja 53	79	68	7	3	1	142,237
26	Hat and cap materials.	5	26	4	2	-----	1	19	Je 21	Ja 15	21	12	4	3	2	18,891
27	Hats and caps, other than felt, straw, and wool.	31	464	43	15	30	24	352	Oc 386	Ja 319	375	257	111	5	2	850,338
28	House-furnishing goods, not elsewhere specified.	30	708	27	29	59	40	553	-----	-----	642	96	491	6	49	2,071,055
29	Mops and dusters.	5	76	1	0	5	5	50	Oc 70	Ja 45	65	21	44	-----	-----	97,627
30	All other.	25	632	20	23	54	35	494	No 578	Ja 409	577	75	447	6	49	1,973,423
31	Instruments, professional and scientific.	12	602	8	70	44	39	441	-----	-----	461	353	93	12	3	1,366,250
32	Medical and surgical.	4	330	2	55	34	28	211	De 227	Se 195	227	152	62	10	3	504,352
33	All other.	8	272	6	15	10	11	230	Fe 304	Mh 177	234	201	31	2	-----	861,898
34	Iron and steel, tempering and welding.	9	43	6	8	1	4	24	Au 27	Mh 22	22	22	-----	-----	-----	47,621
35	Jewelry.	32	298	35	7	25	33	198	De 231	Ja 180	231	208	16	7	-----	860,821
36	Jewelry and instrument cases.	5	77	5	3	1	3	65	Se 105	Ja 43	104	43	60	1	-----	92,358
37	Knit goods.	11	985	8	37	37	39	364	De 1,018	Mh 737	1,018	160	774	2	82	3,239,586
38	Lamps and reflectors.	3	19	2	-----	-----	-----	17	( ) 17	( ) 17	18	17	-----	-----	-----	14,701
39	Leather goods, not elsewhere specified.	14	175	7	12	17	7	132	No 152	Ap 112	152	93	59	-----	-----	612,562
40	Liquors, malt.	10	968	-----	48	98	20	802	Je 887	De 637	648	648	5	-----	-----	11,908,792
41	Lithographing.	7	177	-----	13	8	7	149	De 155	Fe 142	154	142	11	1	-----	315,914
42	Looking-glass and picture frames.	16	91	18	1	4	4	64	No 69	Ja 59	69	67	-----	-----	-----	100,215
43	Lumber, planing-mill products, not including planing mills connected with sawmills.	35	719	24	44	21	15	615	De 783	Je 412	768	758	-----	10	-----	1,960,360
44	Marble and stone work.	17	228	17	15	13	6	177	-----	-----	203	203	-----	-----	-----	593,726
45	Monuments and tombstones.	9	66	13	8	2	1	47	Se 56	Ja 38	47	47	-----	-----	-----	116,161
46	All other.	8	162	4	12	11	5	130	De 155	Mh 118	156	156	-----	-----	-----	477,685
47	Mattresses and spring beds, not elsewhere specified.	22	511	20	24	62	24	381	Oc 423	Ja 319	401	278	110	8	5	1,572,550
48	Millinery and lace goods, not elsewhere specified.	51	1,076	57	40	37	46	896	-----	-----	1,124	219	891	6	8	1,236,307
49	Trimmed hats and hat frames.	20	660	25	16	24	32	563	De 738	Jy 387	738	165	568	4	1	815,455
50	All other.	31	416	32	24	13	14	333	No 332	Ja 279	386	54	323	2	7	420,852
51	Mineral and soda waters.	29	303	26	23	34	22	198	Jy 255	Ja 154	174	173	1	-----	-----	1,127,811
52	Models and patterns, not including paper patterns.	22	119	27	4	-----	3	85	Au 99	Se 62	86	80	5	1	-----	128,122
53	Musical instruments and materials, not elsewhere specified.	14	225	10	12	6	10	187	An 208	Ja 147	200	167	28	5	-----	311,908
54	Musical instruments, pianos.	6	1,220	3	27	19	24	1,147	De 1,214	Ja 1,010	1,214	1,122	57	33	2	3,646,654
55	Oil, not elsewhere specified.	4	54	1	3	9	1	40	Je 44	Mh 35	43	43	-----	-----	-----	672,108
56	Paints.	6	192	-----	13	48	12	119	Se 134	Mh 103	121	112	9	-----	-----	893,286
57	Paper goods, not elsewhere specified.	6	189	4	3	7	14	161	De 204	Ap 137	206	119	85	-----	-----	509,418
58	Patent medicines and compounds.	45	390	20	55	61	43	211	-----	-----	226	135	87	2	2	1,353,388
59	Patent and proprietary medicines.	30	298	9	42	45	31	171	No 188	Je 163	183	105	76	1	1	1,077,260
60	Patent and proprietary compounds, not elsewhere specified.	15	92	11	13	16	12	40	Fe 54	Se 35	43	80	11	1	1	276,126
61	Paving materials.	8	190	5	9	6	1	169	Se 219	Fe 71	208	208	-----	-----	-----	326,338
62	Perfumery and cosmetics.	12	110	4	15	17	6	68	Ja 77	My 61	69	17	48	4	-----	465,731
63	Photo-engraving.	16	477	7	32	49	32	357	No 398	My 301	400	366	22	12	-----	584,211
64	Pickles, preserves, and sauces.	13	532	3	39	52	34	404	-----	-----	445	219	218	5	3	2,636,564
65	Preserves.	9	501	1	35	52	34	379	De 418	Ja 351	420	207	209	1	3	2,793,622
66	Pickles and sauces.	4	31	2	4	-----	-----	25	Jy 40	Ja 15	25	12	9	4	-----	42,942

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

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



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Elec- tric horse- power gener- ated in estab- lish- ments report- ing.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
										Steam en- gines (not tur- bines).	Steam tur- bines.	Inter- nal- com- bus- tion en- gines.	Wate- r pow- er. <sup>1</sup>		

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

Dollars. 23,455	Dollars. 105,984	Dollars. 134,743	Dollars. 51,209	Dollars. 15,305	Dollars. 2,748	Dollars. 353,685	Dollars. 2,025	Dollars. 871,427	Dollars. 515,717	43					43	1
9,250	100,733	106,226	51,209	10,095	2,194	254,240	1,206	693,326	437,880	25					25	2
14,205	5,261	28,517		5,210	554	99,445	819	178,101	77,837	18					18	3
100,347	154,235	65,085		19,996	19,644	631,546	4,069	1,209,439	573,824	43					43	4
176,678	179,897	460,805		64,968	143,460	3,281,986	90,222	5,666,552	2,294,344	1,100	150	2	5		943	5
37,963	23,016	161,211		14,114	11,761	1,243,865	37,788	1,711,529	429,876	629	100				529	6
137,715	156,881	299,094		50,852	131,699	2,038,121	52,434	3,955,023	1,864,468	471	50	2	5		414	7
1,631,651	1,295,692	9,944,966	229,544	232,918	1,273,373	8,983,738	543,307	31,727,663	22,195,468	9,343	2,529	145	135	60	6,474	8
62,866	12,882	353,912		13,928	47,978	409,883	20,431	1,097,055	603,741	411	160				251	9
1,292,899	1,224,997	8,103,676	228,748	182,955	969,886	7,116,798	368,321	25,970,983	18,437,864	6,762	1,654	145	135	60	4,758	10
306,286	58,313	1,487,478	796	36,035	265,539	1,402,107	159,555	4,659,525	3,040,863	2,180	715				1,465	11
60,059	67,178	384,409		37,873	117,511	1,283,197	4,107	2,308,093	1,030,789	55					55	12
95,350	94,781	158,778		15,015	33,288	1,093,499	3,583	2,450,320	843,238	17					17	13
197,782	115,454	1,810,082	26,819	120,193	33,140	2,590,885	31,654	5,344,428	2,721,889	995	200		53		737	14
82,821	59,373	820,511	26,769	76,783	12,932	1,760,495	18,404	3,438,769	1,659,870	544	75				469	15
27,800	10,570	90,230	50	13,419	5,061	216,018	3,570	452,115	232,527	46			18		28	16
55,401	24,088	134,992		10,391	12,030	397,260	5,335	816,721	414,066	99					99	17
31,740	21,423	294,299		13,600	3,117	217,082	4,345	696,823	415,368	306	125		40		141	18
5,816	2,622	42,884		3,656	411	46,765	2,443	127,773	78,662	40					40	19
3,430	5,898	109,631		12,635	1,240	217,277	2,700	432,903	212,926	60					60	20
23,381	4,438	116,776			7,821	718,531	39,819	931,074	172,724	57	27				30	21
28,295	16,379	180,904	2,859	600	232	50,490	574	109,494	53,430	8			6		2	22
				54,800	32,782	1,538,908	84,346	2,120,424	497,170	527	109				418	23
13,803	8,836	48,043		7,180	1,741	53,080	1,935	211,398	156,383	41					41	24
24,490	5,004	68,616	121	10,131	1,752	89,459	3,250	238,911	146,202	81					81	25
8,404	936	15,601		2,369	136	30,612	446	66,997	35,939	6			3		3	26
76,459	79,768	484,019	2,074	29,833	5,282	1,292,572	8,879	2,240,712	930,461	59					59	27
136,123	147,098	390,038	32,162	52,539	21,312	3,153,209	10,607	4,685,175	1,521,359	144	25				119	28
15,354	8,094	38,698	62	5,278	2,043	196,760	893	324,315	126,662	23					23	29
120,774	189,004	351,440	32,100	47,261	19,269	2,950,449	9,714	4,360,860	1,394,697	121	25				96	30
130,823	138,724	496,835	3,475	28,058	27,849	481,317	10,677	1,506,066	1,014,072	293	40				253	31
81,904	106,273	192,518	410	17,188	21,418	203,754	2,709	703,541	497,078	134	40				94	32
48,919	32,451	304,317	3,065	10,870	6,431	277,563	7,968	802,525	536,994	159					159	33
18,622	3,989	33,482	1,532	5,703	2,891	31,589	8,666	128,288	88,033	53					53	34
27,644	65,362	297,616	24,500	30,404	7,425	725,205	5,386	1,603,398	872,807	103			10		93	35
4,976	3,443	54,505	600	6,360	261	68,188	1,895	176,257	106,174	30					30	36
120,777	135,090	683,370	56,967	30,403	157,880	2,618,537	27,166	4,204,571	1,663,868	374					374	37
	1,057	25,654		4,358	193	22,537	1,011	81,385	57,837	16					16	38
52,360	42,760	140,984	125	19,204	6,000	530,874	3,539	912,889	378,076	63	14				49	39
374,335	255,903	1,221,004		2,680,894	1,892,737	210,925	8,956,330	6,852,668	3,735	3,398	188				149	40
55,392	17,322	172,320	7,000	20,051	13,149	232,694	5,642	612,095	373,759	164					164	41
800	10,414	78,244	6,000	13,203	474	137,647	1,511	294,436	155,278	30					30	42
117,312	51,503	804,629	8,808	52,659	48,324	1,708,417	24,459	3,095,193	1,362,317	2,570	1,565	14			991	43
31,434	23,378	262,129	595	14,951	8,266	359,280	16,053	770,661	395,328	749	400		35		314	44
5,395	5,097	60,413	195	6,026	1,215	47,717	4,580	187,379	135,082	149					114	45
26,039	18,281	192,716	400	8,925	7,051	311,563	11,473	583,282	260,246	600	400				230	46
111,549	122,229	454,990		59,798	42,502	1,755,838	21,974	2,973,498	1,195,680	616	125				491	47
85,855	142,755	795,781	12,932	67,630	31,284	1,927,166	20,438	3,762,505	1,814,851	190			4		186	48
34,624	102,743	555,904		39,461	25,512	1,335,064	14,630	2,524,206	1,174,602	112					112	49
51,231	40,012	239,877	12,932	28,169	5,772	592,102	5,858	1,238,209	640,249	78			4		74	50
98,051	71,316	243,429		29,625	136,486	1,067,181	19,087	2,482,117	1,405,849	319	70				245	51
5,190	2,142	12,065	3,461	12,206	1,078	59,824	3,684	292,408	229,408	38					38	52
45,200	15,124	192,003	4,483	18,122	3,097	204,929	2,239	606,871	399,703	104	7				97	53
137,334	47,818	1,446,399		82,744	84,951	1,956,307	55,781	4,552,210	2,540,122	1,430	1,350	57			23	54
10,596	7,602	29,025		3,840	14,162	1,265,624	5,872	1,458,696	157,200	77					42	55
77,054	98,098	126,018		17,121	43,494	555,873	16,062	1,414,924	742,889	327	175				152	56
14,000	27,754	139,090		5,752	56,390	615,395	9,737	308,114	272,511	412	100				312	57
212,989	175,854	87,276	8,170	46,405	65,781	961,926	7,476	2,537,025	1,567,623	154			29		125	58
146,006	130,103	41,717	250	36,881	50,916	674,424	6,267	1,750,967	1,070,276	132			29		103	59
66,983	45,751	45,559	7,920	9,524	14,865	287,502	1,209	786,068	497,347	22					22	60
35,698	9,748	233,199		13,181	8,005	93,248	40,512	534,843	401,083	1,391	665				726	61
40,054	39,960	51,938		11,315	132,652	459,118	621	1,023,644	563,905	8					8	62
109,880	103,254	505,016	45,441	36,472	12,839	174,048	15,009	1,206,973	1,107,916	132					132	63
161,738	142,372	348,083		51,683	120,269	3,268,050	30,273	5,248,494	1,948,171	732	630				192	64
151,441		326,519		50,551	118,839	3,103,247	29,435	5,019,633	1,886,951	715	630				85	65
10,297	2,156	21,724		1,132	1,430	164,803	838	226,861	61,220	17					17	66

<sup>1</sup> Same number reported for one or more other months.<sup>1</sup> Same number reported throughout the year.



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

BOSTON—Con.													Dollars.	
1	Plumbers' supplies, not elsewhere specified.	4	35	3	3	29	Oc <sup>a</sup>	36	Ja	17	34	34	65,095	
2	Pocketbooks.	4	29	7	1	21	Fe	25	Ja	17	19	4	23,491	
3	Pottery.	3	78	1	3	69	Au	77	My	64	67	53	90,113	
4	Printing and publishing, book and job	311	5,127	244	320	550	3,283	De	3,321	Ja	2,980	3,406	2,633	15,177,909
5	Job work only.	262	3,897	219	215	138	3,131	Je	154	Jy <sup>a</sup>	64	72	52	6,079,775
6	Book printing and publishing.	6	267	2	17	86	107	( <sup>b</sup> )	5	( <sup>b</sup> )	5	5	4	543,313
7	Book publishing without printing.	39	917	21	86	326	479							8,472,738
8	Linotype work and typesetting.	4	46	2	2	2	40	My <sup>a</sup>	41	Jy	38	41	24	82,083
9	Printing and publishing, music.	15	325	13	17	75	142	No	144	Ja	133	142	116	1,190,277
10	Printing and publishing.	4	162	2	5	10	140	( <sup>b</sup> )	2	( <sup>b</sup> )	2	140	114	442,571
11	Publishing without printing.	11	163	11	12	65	73	2				2	2	747,706
12	Printing and publishing, newspapers and periodicals.	137	5,972	38	317	1,524	3,091					3,233	2,692	13,712,774
13	Printing and publishing.	16	3,614	8	94	750	517	2,245	Oc	2,352	Ja	2,123	2,330	9,530,536
14	Printing, publishing, and job printing.	27	755	0	61	101	119	468	Oc <sup>a</sup>	526	Fe <sup>a</sup>	434	515	1,730,174
15	Publishing without printing.	94	1,603	24	162	673	366	378	My	394	Ja	363	388	2,446,004
16	Printing materials.	4	42	10	4	3	25	Se <sup>a</sup>	29	Fe	21	29	29	125,066
17	Refrigerators.	6	79	3	12	3	58	Oc	63	Au	48	48	48	164,024
18	Regalia, and society badges and emblems.	3	56	1	3	5	7	40	Ap	47	Se	35	87	74,030
19	Rubber tires, tubes, and rubber goods, not elsewhere specified.	8	463	2	27	8	25	401	Au	438	Ap	371	407	940,766
20	Sausage, not made in slaughtering and meat-packing establishments.	14	184	10	12	22	8	132	De	153	Ap	121	150	490,821
21	Saws.	3	11	2	2	1	6	De	8	Se <sup>a</sup>	5	7	6	12,517
22	Screws, machine.	7	173	4	9	4	7	149	Ja	207	Ap	123	179	446,614
23	Shipbuilding, wooden, including boat building.	5	82	5	3	3	71	My	100	No	46	49	49	132,364
24	Shirts.	6	134	8	1	1	124	De	150	Au	107	150	13	601,621
25	Show cases.	5	46	4	3	2	34	Jy	38	Ja	29	31	30	101,591
26	Signs and advertising novelties.	10	282	6	15	16	230	De	255	Ja <sup>a</sup>	212	255	133	355,743
27	Silversmithing and silverware.	5	54	4	5	3	42	De	50	Ja	36	50	44	67,611
28	Slaughtering and meat packing.	8	224	5	9	39	164	Ja	197	No	142	166	156	552,086
29	Soup.	8	82	2	12	13	11	44	Jy	57	Fe	37	41	462,322
30	Springs, steel, automobile and carriage and wagon.	4	43	6	5	5	25	De	29	Ja	22	20	20	110,609
31	Stationery goods, not elsewhere specified.	4	295	4	20	56	35	180	Oc <sup>a</sup>	189	Ja	165	180	763,197
32	Statuary and art goods.	8	69	6	6	2	55	De	61	Ja	51	61	61	153,598
33	Steam fittings and steam and hot-water heating apparatus.	9	2,744	3	151	229	184	2,177	De	2,300	My	2,066	2,290	6,467,124
34	Steam packing.	4	25	1	5	8	10	( <sup>b</sup> )	10	( <sup>b</sup> )	10	10	9	65,182
35	Stencils and brands.	6	37	4	5	2	25	De	29	Ja <sup>a</sup>	22	29	29	42,654
36	Stereotyping and electrotyping.	4	148	2	10	9	121	No <sup>a</sup>	131	Ja	106	131	124	114,006
37	Stoves and hot-air furnaces.	3	134	14	22	9	89	Oc	142	Ap	44	129	129	1,002,079
38	Structural ironwork, not made in steel works or rolling mills.	22	271	16	27	11	205	De	235	Je	164	235	235	541,734
39	Surgical appliances.	8	163	5	8	5	133	Au	155	Fe	113	110	37	168,379
40	Suspenders, garters, and elastic-woven goods.	9	893	7	31	71	740	Oc	895	Fe	612	850	99	2,322,908
41	Textile machinery and parts.	5	760	1	35	40	665	De	912	My	486	912	893	4,312,314
42	Tinware, not elsewhere specified.	11	752	10	27	39	643	Ja	708	Au	578	621	463	3,326,052
43	Tobacco, cigars and cigarettes.	94	2,297	93	64	65	2,046	Fe	2,577	Jy	514	3,024	2,919	4,839,199
44	Tobacco, smoking.	3	8	2	2	2	6	Oc <sup>a</sup>	7	Se <sup>a</sup>	5	7	4	9,335
45	Tools, not elsewhere specified.	16	633	16	34	14	539	De	604	Je	497	605	567	1,589,842
46	Toys and games.	5	139	3	10	4	120	Oc	160	Fe	68	154	31	124,834
47	Trunks and valises.	16	290	17	9	30	222	De	259	Ja	167	259	210	411,691
48	Varnishes.	4	28	5	5	2	16	Se	18	Mh	14	15	15	362,462
49	Window and door screens and weather strips.	4	13	2	1	1	7	Je	12	Ap	5	7	7	19,364
50	Window shades and fixtures.	4	26	3	2	1	20	Au	25	Ja <sup>a</sup>	15	23	19	100,490
51	Wirework, not elsewhere specified.	7	47	5	4	2	32	Fe <sup>a</sup>	35	Je	29	31	22	35,769
52	Wool scouring.	3	75	1	4	3	66	De	94	Fe	41	94	94	278,615
53	All other industries.*	217	14,058	133	571	943	11,768					12,428	9,279	73,420,608

\* All other industries embrace—  
Aeroplanes, soapplanes, and airships, and parts.  
Aluminum manufactures.  
Ammunition.  
Asbestos textile-mill products, not including steam packing.  
Bags, other than paper, not including bags made in textile mills.  
Bags, paper, not including bags made in paper mills.  
Baking powders.  
Baskets, and rattan and willow ware.  
Belting, rubber.  
Belting, woven.  
Billiard tables and accessories.  
Bluing.  
Boxes, cigar.

Boxes, wooden packing, except cigar boxes.  
Brooms.  
Butter.  
Butter, reworking.  
Card cutting and designing.  
Carriage and wagon materials.  
Cars and general shop construction and repairs by electric-railroad companies.  
Cars, steam-railroad, not including operations of railroad companies.  
Cash registers and calculating machines.  
Cheese.  
Chewing gum.  
Clocks.  
Cloth, sponging and refinishing.

Clothing, men's, buttonholes.  
Coffins, burial cases, and undertakers' goods.  
Cooperage, hogsheds and barrels.  
Cordage and twine.  
Cork, cutting.  
Corsets.  
Cotton small wares.  
Cutlery and edge tools.  
Dairymen's supplies.  
Dental goods.  
Drug grinding.  
Dyeing and finishing textiles, exclusive of that done in textile mills.  
Emery and other abrasive wheels.  
Enameling.  
Engravers' materials.

Engraving, wood.  
Envelopes.  
Felt goods.  
Fire extinguishers, chemical.  
Flags and banners.  
Flour-mill and gristmill products.  
Furs, dressed.  
Galvanizing.  
Gas, illuminating and heating.  
Gas and water motors.  
Gloves and mittens, cloth, not including gloves made in textile mills.  
Gloves and mittens, leather.  
Hair work.  
Hammocks.  
Hats, fur-felt.  
Hats, straw.  
Ice, manufactured.

<sup>a</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

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



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>	Rent. <sup>2</sup>	

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

Dollars. 4, 050	Dollars. 2, 155	Dollars. 33, 207	Dollars. 2, 050	Dollars. 4, 280	Dollars. 506	Dollars. 48, 737	Dollars. 4, 582	Dollars. 136, 045	Dollars. 82, 726	82	40			42	1	
5, 100	624	11, 976		3, 256	67	44, 191	390	69, 832	25, 251	12				12	2	
1, 204, 055	5, 003	78, 863		1, 800	1, 543	62, 250	11, 534	166, 726	92, 036	141	75			66	3	
770, 556	1, 583, 503	3, 780, 597	3, 138, 893	415, 519	383, 750	6, 143, 962	139, 925	22, 809, 951	16, 520, 064	3, 150	248	11		2, 891	25	
48, 579	413, 521	3, 616, 120	32, 048	320, 526	200, 295	3, 807, 440	130, 889	12, 037, 364	8, 039, 038	3, 032	248	11		2, 773	5	
437, 920	1, 051, 681	5, 410	2, 999, 635	13, 887	18, 215	119, 737	5, 566	573, 358	443, 254	107				107	6	
				78, 683	104, 005	2, 149, 808	1, 137	10, 060, 290	7, 945, 345						7	
7, 000	2, 802	44, 767		2, 423	1, 145	6, 977	2, 536	102, 939	93, 426	11				11	8	
73, 407	102, 813	123, 371	540, 107	46, 437	46, 502	303, 183	3, 850	1, 708, 990	1, 401, 957	147				147	9	
14, 300	16, 558	119, 571	248, 859	12, 500	19, 704	187, 787	3, 832	739, 322	547, 703	144				144	10	
59, 107	146, 255	3, 800	297, 248	33, 937	26, 858	115, 396	18	969, 068	854, 254	3				3	11	
1, 304, 057	3, 440, 417	4, 815, 576	1, 350, 859	411, 880	907, 068	12, 638, 237	213, 462	33, 607, 374	20, 755, 675	5, 088	80	119		4, 889	12	
661, 138	1, 854, 570	3, 014, 736	1, 747	181, 391	789, 329	9, 845, 986	155, 961	22, 774, 201	12, 772, 254	3, 581	80			3, 501	13	
168, 091	254, 290	538, 483	66, 010	78, 838	22, 316	538, 337	29, 572	1, 991, 501	1, 423, 592	782		119		663	14	
565, 128	1, 331, 557	662, 357	1, 280, 102	151, 657	95, 413	2, 253, 914	27, 929	8, 841, 672	6, 559, 829	725				725	15	
36, 170	9, 516	28, 931	10, 553	16, 371	128, 021	2, 150	275, 054	144, 883	21					21	16	
31, 350	3, 516	71, 329	4, 660	1, 614	124, 835	2, 536	285, 556	158, 185	170	125	28			17	17	
7, 804	13, 220	39, 855	1, 000	4, 790	1, 000	121, 962	430	213, 174	90, 782	4				4	18	
96, 376	40, 853	351, 197	388	6, 044	49, 224	698, 553	43, 892	1, 545, 196	802, 751	793	708	40		45	37	
34, 550	36, 060	183, 573		34, 253	6, 367	2, 016, 184	22, 612	2, 516, 142	477, 346	498				498	20	
	2, 050	6, 205		2, 050	288	4, 792	840	24, 526	18, 894	19				19	21	
34, 379	12, 007	175, 168		11, 778	8, 880	263, 047	11, 077	604, 508	330, 444	290				290	22	
32, 732	2, 957	79, 903		6, 168	1, 079	113, 374	3, 267	275, 597	158, 956	179	50	30		99	23	
333	634	88, 155	62, 044	4, 740	2, 540	715, 094	2, 033	1, 066, 850	349, 723	29				29	24	
9, 434	7, 804	40, 543	184	3, 332	505	113, 426	3, 212	196, 405	79, 767	67		25		42	25	
40, 843	69, 165	238, 065	4, 186	15, 981	4, 712	250, 180	4, 332	745, 154	490, 633	96				96	26	
10, 961	2, 320	49, 679	2, 037	5, 006	348	70, 566	2, 546	188, 076	114, 964	49				49	27	
59, 203	70, 205	225, 046	13, 339	31, 702	6, 659	5, 938, 702	13, 656	6, 051, 615	699, 257	280				280	28	
76, 873	59, 605	52, 113	8, 606	80, 256	558, 198	14, 433	1, 000, 934	488, 303	177	164				13	29	
11, 524	3, 498	28, 990	3, 438	581	53, 113	3, 709	137, 728	80, 900	73					73	30	
51, 010	153, 984	138, 267	86, 935	29, 020	21, 739	629, 952	7, 077	1, 300, 957	723, 928	96		18		78	31	
11, 180	1, 970	75, 300	1, 318	7, 059	3, 041	39, 506	706	189, 421	149, 209						32	
502, 997	437, 846	2, 605, 762	1, 907	7, 502	482, 854	2, 371, 870	185, 642	8, 134, 716	5, 577, 204	2, 797	635			2, 162	33	
15, 020	15, 140	12, 883		3, 140	557	50, 889	1, 299	134, 419	82, 231	17				17	34	
12, 287	3, 395	24, 636		5, 643	1, 000	20, 586	1, 234	87, 324	65, 504	14				14	35	
39, 804	14, 217	155, 045		9, 451	1, 197	84, 105	10, 881	402, 678	307, 682	257				257	36	
27, 120	56, 955	104, 455		1, 825	15, 018	144, 204	3, 735	342, 768	194, 829	77				77	37	
78, 563	39, 106	271, 180		22, 912	9, 366	443, 922	20, 904	1, 062, 021	597, 195	499	150	35		314	38	
27, 012	28, 572	92, 858	82	14, 469	3, 317	156, 606	1, 802	402, 249	243, 841	30				30	39	
132, 402	184, 162	512, 821	90, 776	36, 727	78, 204	2, 175, 322	15, 113	3, 939, 800	1, 749, 365	283	143			120	40	
139, 323	82, 711	329, 259	1, 607	5, 892	57, 231	817, 096	24, 923	2, 274, 625	1, 432, 606	453	150	40		263	41	
66, 997	83, 717	644, 975		34, 358	153, 502	2, 104, 149	21, 393	3, 557, 154	1, 431, 612	333	120			213	42	
162, 548	106, 169	2, 441, 423		57, 005	1, 067, 821	3, 446, 519	11, 917	8, 400, 426	4, 941, 990	110				110	43	
				2, 300	1, 217	22, 803	130	36, 166	13, 233	1				1	44	
102, 848	52, 248	631, 350	750	8, 031	127, 678	598, 448	61, 753	2, 181, 278	1, 521, 077	1, 007	17	12		978	45	
24, 155	3, 778	71, 044	2, 968	7, 512	1, 423	123, 517	2, 195	300, 413	173, 701	48				48	46	
21, 898	69, 093	231, 321	120	18, 096	3, 313	763, 474	3, 867	1, 283, 312	515, 971	40				40	47	
18, 679	11, 453	25, 838		2, 895	6, 918	421, 666	2, 011	729, 245	305, 568	61	9			52	48	
780	1, 986	7, 301		1, 910	133	11, 925	833	30, 469	17, 711	20				20	49	
2, 413	750	20, 640		2, 687	298	87, 750	143	149, 545	61, 652	4				4	50	
0, 848	5, 804	33, 893	272	4, 488	474	26, 334	868	99, 158	71, 950	18				18	51	
13, 741	3, 273	100, 732		1, 920	8, 312	65, 731	29, 289	270, 999	175, 949	396	325		2	71	52	
2, 193, 925	2, 005, 801	12, 627, 169	70, 709	375, 525	4, 809, 835	75, 510, 167	2, 051, 430	113, 454, 010	35, 902, 413	24, 270	11, 596	1, 435	172	35	11, 041	53
Ink, printing.....	2	Liquors, distilled, grain alcohol and rum.....	2	Ordnance and accessories.....	2	Sporting and athletic goods.....	2									
Ink, writing.....	3	Lubricating greases.....	1	Paper and wood pulp.....	1	Stoves, gas and oil.....	3									
Iron and steel, steel works and rolling mills.....	3	Lumber and timber products.....	2	Peanuts, grading, roasting, cleaning, and shelling.....	1	Sugar, refining, not including beet sugar.....	2									
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	2	Machine tools.....	3	Pens, fountain and stylographic.....	2	Type founding.....	2									
Iron and steel, forgings, not made in steel works or rolling mills.....	1	Minerals and earths, ground or otherwise treated.....	1	Photographic materials.....	1	Typewriter supplies, carbon paper and ribbon.....	2									
Iron and steel, wire nails and spikes, not made in steel works or rolling mills.....	1	Mirrors, framed and unframed, not elsewhere specified.....	4	Pipes, tobacco.....	1	Umbrellas and canes.....	5									
Japanning.....	2	Mucilage, paste, and other adhesives, not elsewhere specified.....	5	Plated ware.....	2	Upholstering materials, curled hair.....	1									
Labels and tags.....	2	Musical instruments, organs.....	2	Pumps, not including power pumps.....	4	Vault lights and ventilators.....	1									
Lapidary work.....	1	Musical instruments, piano and organ materials.....	2	Roofing materials, metal shingles and ceiling.....	1	Waste, cotton.....	2									
Leads.....	1	Needles, pins, and hooks and eyes.....	2	Saddlery and harness.....	2	Wood, turned and carved.....	2									
Lead, bar, pipe, and sheet.....	1	Oil, kerosene and other butter substitutes.....	3	Sewing machines.....	1	Wooden goods, not elsewhere specified.....	1									
Leather, tanned, curried, and finished.....	2	Optical goods.....	1	Shipbuilding, steel, repair work only.....	1	Wool shoddy.....	1									
				Silk goods.....	3	Woolen goods.....	1									
				Smelting and refining, not from the ore.....	3	Worsted goods.....	1									
				Soda-water apparatus.....	3											

\* Same number reported throughout the year.

\* Same number reported for one or more other months.

\* Same number reported throughout the year.



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

1	BROCKTON—All industries....	217	20,555	166	734	694	902	18,059	De 18,936	Ja 17,156	19,176	12,762	5,929	253	232	Dollars. 54,715,520
2	Blacking, stains, and dressings.....	13	97	17	8	19	10	43	No 45	Ja 41	45	36	9	.....	.....	340,709
3	Boot and shoe cut stock.....	11	921	7	33	13	22	846	Oc 905	De 787	786	476	237	7	16	2,351,686
4	Boot and shoe findings.....	42	1,560	36	71	38	50	1,365	De 1,562	Ja 1,196	1,564	946	572	20	26	5,511,465
5	Boots and shoes, not including rubber boots and shoes.....	39	14,383	13	415	420	667	12,878	An 13,530	Ja 12,281	13,457	8,751	4,381	184	141	36,063,484
6	Boxes, set-up paper boxes and cartons.....	4	204	1	9	3	9	182	Ap 195	Ja 166	191	56	116	2	17	288,138
7	Bread and other bakery products.....	10	129	10	7	20	8	84	No 93	De 77	83	80	7	1	.....	194,531
8	Clothing, men's.....	4	110	2	9	4	9	86	De 107	Ja 63	107	41	55	7	4	227,066
9	Cotton small wares.....	4	182	2	11	4	7	158	Se 181	Ja 130	166	64	96	2	4	645,059
10	Cutlery and edge tools.....	7	89	5	15	1	2	66	De 70	Ja 63	70	70	.....	.....	.....	117,426
11	Foundry and machine-shop products.....	9	331	8	13	17	17	270	De 329	My 229	329	321	8	.....	.....	692,703
12	Lasts.....	6	421	4	22	20	10	365	Oc 416	Ja 275	448	420	25	3	.....	1,362,007
13	Lumber, planing-mill products, not including planing mills connected with sawmills.....	3	19	1	3	1	2	12	De 14	Ja 9	14	14	.....	.....	.....	60,901
14	Models and patterns, not including paper patterns.....	5	80	7	7	6	2	58	De 71	Mh 48	71	71	.....	.....	.....	80,548
15	Mucilage, paste, and other adhesives, not elsewhere specified.....	4	40	4	5	8	4	19	(*) 19	(*) 19	19	18	1	.....	.....	280,150
16	Printing, job.....	14	273	16	27	22	25	183	De 198	Ja 164	199	160	36	2	1	429,624
17	All other industries*.....	42	1,716	33	79	98	68	1,438	.....	.....	1,622	1,238	330	25	23	6,069,303

*All other industries embrace—	Cars and general shop construction	Copper, tin, and sheet-iron work....	2	Furniture, metal .....	1
Automobile repairing.....	1	and repairs by electric-railroad		Gas, illuminating and heating.....	1
Awnings, tents, and sails.....	1	companies.....	1	Hand stamps.....	1
Boxes, wooden packing, except cigar		Cleansing preparations.....	1	House-furnishing goods, mops and	
boxes.....	2	Clothing, women's.....	1	dusters.....	1
Carpets, rag.....	1	Confectionery and ice cream.....	2	Flavoring extracts.....	1
				Flour-mill and gristmill products....	1
				Iron and steel, nails and spikes, not	
				made in steel works or rolling mills..	2

1	CAMBRIDGE—All industries....	339	27,334	227	1,051	1,956	1,550	22,550	No 24,781	Ap 21,038	24,730	16,355	7,632	295	398	98,741,856
2	Automobile repairing.....	7	95	4	6	10	2	73	Je 80	Ja 67	74	73	.....	1	.....	142,311
3	Bookbinding and blank-book making.....	7	472	6	10	9	10	437	No 465	Fe 400	462	214	234	5	9	658,013
4	Boxes, set-up paper boxes.....	6	668	1	20	2	13	632	Jy 660	Ja 553	640	144	423	20	53	698,440
5	Bread and other bakery products.....	42	1,479	41	30	113	50	1,245	De 1,381	Mh 1,071	1,382	918	442	8	14	5,175,347
6	Chemicals.....	3	170	1	11	39	26	93	Se 105	Ap 85	97	85	12	.....	.....	815,524
7	Clothing, women's.....	7	236	6	14	7	6	203	Mh 130	Jy 44	209	16	185	.....	8	239,042
8	Shirt waists, dresses, and wrap-pers.....	4	110	1	12	6	4	93	.....	.....	95	10	85	.....	.....	141,878
9	All other.....	3	120	5	2	1	2	110	My 135	Ja 87	114	6	100	.....	8	97,164
10	Confectionery and ice cream.....	26	2,255	25	80	115	83	1,952	Oc 1,921	Je 1,563	2,006	603	1,212	33	158	4,494,007
11	Confectionery.....	18	2,041	12	75	106	71	1,777	Jy 251	Ja 134	1,867	466	1,211	33	158	4,114,375
12	Ice cream.....	8	214	13	5	9	12	175	De 322	Je 260	139	138	1	.....	.....	379,632
13	Copper, tin, and sheet-iron work.....	9	400	5	35	50	26	284	Oc 2,953	Ap 1,781	313	302	6	5	.....	973,777
14	Electrical machinery, apparatus, and supplies.....	8	2,697	3	106	84	105	2,399	.....	.....	2,702	2,167	501	34	.....	6,278,218
15	Foundry and machine-shop products.....	21	1,338	11	70	72	47	1,138	De 669	Ja 451	1,293	1,227	61	5	.....	2,751,240
16	Machine shops.....	16	674	10	43	36	33	552	Se 662	Ap 494	669	604	61	4	.....	1,678,017
17	All other.....	5	664	1	27	36	14	586	Oc 859	Je 574	624	623	.....	1	.....	1,073,229
18	Furniture.....	11	820	3	33	34	22	728	No 52	Ja 34	837	795	36	6	.....	1,795,827
19	Glass, cutting, staining, and ornamenting.....	3	50	3	4	.....	1	42	.....	.....	50	30	18	1	1	91,560
20	Instruments, professional and scientific.....	3	47	.....	3	1	1	42	No 52	Ja 23	51	49	1	1	.....	149,972
21	Marble and stone work.....	8	113	7	11	4	4	87	Ap 8	Fe 4	113	112	1	.....	.....	206,264
22	Monuments and tombstones.....	3	9	3	.....	.....	.....	6	De 108	Fe 54	6	6	.....	.....	.....	11,900
23	All other, except slate.....	5	104	4	11	4	4	81	De 470	Ja 345	107	106	1	.....	.....	194,384
24	Musical instruments, pianos.....	3	498	.....	17	38	14	429	De 1,574	Ja 1,326	470	463	4	3	.....	2,694,863
25	Printing and publishing, book and job.....	25	2,014	36	63	208	251	1,456	.....	.....	1,574	983	581	10	.....	9,743,301
26	Printing and publishing, newspapers and periodicals.....	15	262	7	11	17	19	208	.....	.....	227	171	49	7	.....	953,526
27	Printing, publishing, and job printing.....	7	252	5	8	16	15	208	De 227	Ja 197	227	171	49	7	.....	938,404
28	Publishing without printing.....	8	10	2	3	1	4	.....	(*) 3	(*) 3	.....	.....	.....	.....	.....	15,122
29	Slaughtering and meat packing.....	3	6	3	.....	.....	.....	3	Fe 362	Se 299	3	3	.....	.....	.....	8,050
30	Structural ironwork, not made in steel works or rolling mills.....	9	399	5	18	37	5	334	.....	.....	329	329	.....	.....	.....	1,383,186
31	Tobacco, cigars.....	7	13	7	1	.....	.....	5	De 12	My 3	12	7	5	.....	.....	10,058
32	Wood, turned and carved.....	3	22	3	4	.....	.....	15	Je 20	Ja 12	13	13	.....	.....	.....	79,877
33	All other industries*.....	113	13,280	50	504	1,116	865	10,745	.....	.....	11,873	7,651	3,011	156	155	59,499,497

*All other industries embrace—		Boxes, wooden packing, except cigar	2	Dental goods.....	1	Grease and tallow, not including lu-	
Automobile bodies and parts.....	4	boxes.....	2	Druggists' preparations.....	1	bricating greases.....	2
Automobiles.....	1	Brass and bronze products.....	1	Electroplating.....	1	House-furnishing goods, not else-	
Babbitt and white metal.....	1	Brick, building.....	1	Engraving, steel and copper plate,	1	where specified.....	2
Belting and hose, rubber.....	1	Brooms, from broom corn.....	1	including plate printing.....	1	Ink, writing.....	1
Belting, leather.....	1	Brushes, paint and varnish.....	1	Envelopes.....	1	Iron and steel, welding.....	2
Blacking, stains, and dressings.....	2	Butter.....	2	Fancy articles, not elsewhere speci-	1	Jewelry.....	2
Boot and shoe cut stock.....	2	Cleansing and polishing preparations.....	2	fied.....	1	Jewelry and instrument cases.....	1
Boot and shoe findings.....	2	Clothing, men's.....	1	Felt goods.....	1	Knit goods.....	3
Boots and shoes, not including rub-		Coffins, burial cases, and undertak-		Flags and banners.....	1	Liquors, distilled, grain alcohol.....	1
ber boots and shoes.....	2	ers' goods.....	2	Food preparations, not elsewhere		Lithographing.....	1
Boots and shoes, rubber.....	1	Collars and cuffs, men's.....	1	specified.....	1	Looking-glass and picture frames.....	2

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

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



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.					Rent- ed. <sup>2</sup>
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>		

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

Dollars. 2,937,554	Dollars. 2,687,948	Dollars. 20,896,087	Dollars. 61,201	Dollars. 226,162	Dollars. 2,930,613	Dollars. 73,824,775	Dollars. 888,506	Dollars. 117,855,025	Dollars. 43,141,744	13,205	4,798	614	25	7,768	807	1
34,100	36,639	51,635	.....	8,239	18,006	443,672	2,912	837,536	390,952	57	20	.....	.....	37	.....	2
163,295	44,135	791,895	.....	12,060	71,612	4,298,908	24,099	5,078,865	1,655,858	408	50	.....	.....	358	.....	3
376,238	128,777	1,281,784	965	44,919	157,270	10,061,280	61,816	14,075,890	3,953,294	1,307	700	.....	.....	607	150	4
1,665,937	1,948,461	15,557,692	429	76,343	2,171,911	52,286,434	308,350	81,543,541	28,948,757	6,780	2,373	450	.....	3,957	1	5
23,697	12,192	142,327	.....	5,600	15,859	234,344	4,048	537,255	297,963	50	.....	.....	.....	50	.....	6
9,802	43,094	108,112	.....	12,942	4,110	490,140	17,019	809,788	302,629	119	.....	.....	.....	119	.....	7
21,700	13,297	67,084	.....	4,620	7,105	225,777	1,919	384,968	157,273	56	.....	.....	.....	56	.....	8
31,028	8,529	125,688	.....	2,950	9,393	517,846	10,365	800,950	272,739	116	.....	.....	.....	116	.....	9
25,025	2,696	90,842	.....	3,880	7,263	63,317	6,072	280,845	211,456	96	.....	.....	.....	96	.....	10
48,857	50,979	328,982	.....	5,740	44,355	239,086	14,458	929,057	675,513	255	150	.....	.....	105	.....	11
107,119	41,015	470,883	38,739	2,628	111,796	479,544	18,494	1,857,436	1,359,398	631	530	.....	.....	101	454	12
5,696	3,081	20,174	.....	4,500	459	41,491	1,823	91,229	47,915	85	.....	.....	.....	85	.....	13
41,877	6,727	70,149	.....	4,584	1,325	30,171	1,016	213,527	182,340	27	.....	.....	.....	27	.....	14
14,600	19,124	24,713	.....	480	8,340	384,830	9,063	565,570	191,677	278	125	.....	.....	153	.....	15
100,435	69,943	185,395	17,051	17,974	12,292	341,538	6,042	920,823	573,243	181	.....	.....	.....	181	.....	16
259,293	241,259	1,599,252	4,017	18,703	289,508	3,706,397	400,610	8,027,745	3,920,738	2,759	850	164	25	1,720	202	17

Leather goods, not elsewhere specified.....	1	Mineral and carbonated waters.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Structural ironwork, not made in steel works or rolling mills.....	1
Leather, tanned, curried, and finished.....	1	Patent and proprietary medicines.....	1	Sausage, not made in slaughtering and meat-packing establishments.....	1	Suspenders, garters, and elastic woven goods.....	2
Looking-glass and picture frames.....	1	Perfumery and cosmetics.....	1	Springs, steel, not made in steel works or rolling mills.....	1	Tools, not elsewhere specified.....	2
Marble and stone work, monuments and tombstones.....	1	Printing and publishing, newspapers and periodicals.....	3				
		Pulp goods, wall board.....	1				

3,820,068	4,324,116	22,842,488	190,153	474,610	4,854,535	66,802,784	2,324,139	127,864,901	58,737,978	23,421	10,339	5,400	489	12,193	9,856	1
22,991	16,537	86,002	.....	9,870	588	139,088	4,891	305,836	161,857	68	.....	.....	35	33	.....	2
58,278	28,225	413,749	.....	29,736	10,887	456,767	9,220	1,250,108	814,121	304	190	.....	2	112	.....	3
125,780	13,187	445,605	2,318	10,170	33,993	611,920	9,052	1,447,157	826,185	236	75	15	.....	146	.....	4
68,404	254,578	1,214,903	.....	14,150	122,515	5,181,548	97,709	9,094,101	3,814,844	1,030	857	.....	.....	173	166	5
13,127	58,930	95,948	.....	900	71,627	217,314	28,568	702,988	457,104	427	160	175	.....	102	95	6
25,078	15,717	132,055	17,856	8,576	3,371	363,260	2,921	669,427	303,246	44	.....	.....	.....	44	.....	7
21,728	13,600	67,258	10,440	6,056	2,199	199,801	1,430	376,810	175,469	26	.....	.....	.....	26	.....	8
3,350	2,117	64,797	7,416	2,520	1,172	163,399	1,441	292,617	127,777	18	.....	.....	.....	18	.....	9
295,672	292,278	1,424,687	.....	26,313	809,025	6,572,652	125,388	11,460,261	4,762,221	1,997	695	.....	.....	1,302	213	10
261,496	274,565	1,218,457	.....	16,320	797,054	5,641,112	79,208	9,901,062	4,180,736	1,491	670	.....	.....	821	213	11
34,176	17,713	206,230	.....	9,993	11,971	931,534	46,130	1,559,199	581,485	506	25	.....	.....	431	.....	12
117,339	72,255	340,517	.....	21,536	43,973	701,359	14,119	1,599,124	793,646	478	85	.....	.....	383	100	13
329,387	209,364	2,344,835	.....	22,378	306,880	3,792,338	111,724	8,718,570	4,814,508	3,064	1,176	.....	.....	1,899	755	14
319,504	124,657	1,438,635	9,775	17,977	73,400	2,064,317	73,399	5,033,915	2,896,259	1,307	483	.....	66	773	.....	15
190,666	64,407	706,374	3,683	11,680	26,194	591,085	25,713	2,511,951	1,595,133	586	88	.....	66	432	.....	16
128,838	60,250	732,261	6,092	6,297	47,206	1,173,232	47,626	2,521,984	1,201,328	721	380	.....	.....	341	6	17
110,394	110,206	937,780	1,970	65,525	30,181	709,873	59,039	2,178,781	1,469,519	809	150	.....	.....	659	.....	18
10,475	1,144	27,985	.....	2,540	995	11,822	1,859	84,698	71,017	31	.....	.....	.....	31	.....	19
8,150	750	38,023	.....	6,333	7,365	89,405	1,759	157,704	66,540	31	.....	.....	.....	31	.....	20
27,468	7,979	131,596	14,600	9,096	2,379	125,794	8,891	363,705	229,020	505	450	.....	.....	55	.....	21
.....	.....	11,117	14,600	1,450	108	10,960	8,891	49,363	37,936	10	.....	.....	.....	10	.....	22
27,468	7,979	120,479	.....	7,666	2,271	114,834	8,424	314,342	191,084	495	450	.....	.....	46	.....	23
114,489	66,925	571,537	.....	10,105	121,235	479,562	24,883	1,601,707	1,097,262	462	287	.....	.....	176	91	24
154,724	651,038	1,581,148	28,575	45,374	59,440	2,987,335	45,279	7,821,316	4,783,652	1,380	900	.....	.....	480	850	25
31,512	49,443	262,821	57,545	2,210	8,988	209,982	8,163	908,392	699,247	295	.....	.....	.....	295	.....	26
29,562	45,300	262,821	1,500	1,460	8,985	205,532	8,163	822,666	608,971	295	.....	.....	.....	295	.....	27
1,950	4,148	.....	56,045	750	1	4,450	.....	85,726	81,276	.....	.....	.....	.....	.....	.....	28
.....	.....	4,004	.....	593	137,230	.....	.....	163,020	25,740	.....	.....	.....	.....	.....	.....	29
83,494	67,791	408,265	.....	5,196	52,044	708,502	24,830	1,543,477	815,145	675	310	.....	70	295	480	30
480	7,553	350	.....	956	5,364	18,280	113	44,984	26,591	.....	.....	.....	.....	.....	.....	31
6,534	11,739	.....	.....	393	1,819	2,593	1,916	28,558	24,079	67	50	.....	.....	17	.....	32
1,896,798	2,283,112	10,923,111	57,164	159,172	3,087,870	41,226,773	1,670,476	72,747,124	29,849,875	15,216	4,497	5,400	126	5,193	7,100	33

Lumber, planing-mill products, not including planing mills connected with sawmills.....	3	Oleomargarine and other butter substitutes.....	1	Pottery, earthen and stone ware.....	1	Stamped ware, not elsewhere specified.....	1
Machine tools.....	1	Optical goods.....	1	Pumps, steam.....	1	Stationery goods, not elsewhere specified.....	1
Mineral and carbonated waters.....	2	Paints.....	1	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Statuary and art goods.....	1
Models and patterns, not including paper patterns.....	2	Paper goods, not elsewhere specified.....	1	Sausage casings.....	2	Steam fittings and steam and hot water heating apparatus.....	2
Mudage, paste, and other adhesives, not elsewhere specified.....	1	Patent and proprietary compounds, not elsewhere specified.....	2	Saws.....	1	Suspenders, garters, and elastic woven goods.....	1
Musical instruments, piano and organ materials.....	3	Pens, fountain and stylographic.....	1	Screws, machine.....	1	Tinware, not elsewhere specified.....	1
Needles, pins, and hooks and eyes.....	1	Phonographs and graphophones.....	1	Shipbuilding, wooden, small boats.....	1	Tools, not elsewhere specified.....	1
Nets and seines.....	1	Photo-engraving.....	1	Silk goods, throwsters and winders.....	1	Window and door screens.....	1
		Pickles, preserves, and sauces.....	2	Soap.....	4	Wirework, not elsewhere specified.....	1
		Plumbers' supplies, not elsewhere specified.....	1	Springs, steel, carriage and wagon.....	1		

\* Same number reported for one or more other months.

\* Same number reported throughout the year.



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

1	FALL RIVER—All industries..	293	38,717	231	553	524	394	37,015	No 38,065	Mh 35,909	38,454	20,219	15,944	1,085	1,205	Dollars. 135,717,124
2	Belting, leather.....	4	121	2	3	7	2	107	No 115	Au 67	111	95	14	2	.....	321,749
3	Bread and other bakery products.....	68	362	70	4	7	27	254	Oc 270	Ja 232	276	247	19	8	.....	494,700
4	Clothing, women's, shirt waists, dresses, and wrappers.....	3	70	6	.....	.....	1	63	Mh 75	Ja 40	68	.....	32	.....	36	77,153
5	Confectionery and ice cream.....	8	44	10	.....	3	3	28	Je 34	Ja 21	29	27	2	.....	.....	49,853
6	Copper, tin, and sheet-iron work.....	10	35	8	.....	.....	.....	27	Oc 35	Fe 17	35	34	.....	1	.....	76,727
7	Cotton goods.....	46	32,746	359	371	211	31,805	No 32,696	Mh 31,079	32,893	16,442	14,474	932	1,045	.....	116,706,753
8	Cotton small wares.....	8	514	19	3	9	483	Ja 525	Se 442	473	113	208	20	42	.....	1,489,646
9	Dyeing and finishing textiles, exclusive of that done in textile mills.....	4	1,090	1	14	28	1,026	No 1,095	Mh 911	1,089	859	223	4	3	.....	5,281,889
10	Foundry and machine-shop products.....	11	171	16	9	2	5	139	Ap 147	Je 133	147	146	.....	1	.....	737,992
11	Hats and caps, other than felt, straw, and wool.....	3	7	3	.....	.....	.....	4	(*) 4	Je 4	5	2	1	.....	2	1,812
12	Iron and steel, welding.....	3	11	3	1	1	.....	6	Jy 7	Fe 5	7	7	.....	.....	.....	6,923
13	Lumber, planing-mill products, not including planing mills connected with sawmills.....	4	68	5	2	10	4	47	De 53	Fe 41	53	53	.....	.....	.....	51,786
14	Marble and stone work.....	10	65	10	2	3	.....	50	.....	.....	53	53	.....	.....	.....	63,201
15	Monuments and tombstones.....	7	21	7	.....	.....	.....	14	My 15	Mh 11	14	14	.....	.....	.....	26,120
16	All other, except slate.....	3	44	3	2	3	.....	36	Je 52	Fe 8	39	39	.....	.....	.....	37,081
17	Mineral and carbonated waters.....	6	27	7	2	.....	.....	18	Au 25	Fe 14	18	18	.....	.....	.....	42,292
18	Printing, job.....	15	73	12	5	.....	3	53	De 58	Mh 51	58	43	7	8	.....	107,021
19	Printing and publishing, newspapers and periodicals.....	7	171	5	8	6	9	143	De 148	Ja 138	146	123	8	15	.....	394,638
20	Sausage, not made in slaughtering and meat-packing establishments.....	7	34	7	.....	.....	.....	27	Ja 28	Au 25	28	24	3	1	.....	31,447
21	Textile machinery and parts.....	17	852	15	22	18	17	780	De 886	Fe 739	887	713	130	35	9	2,144,837
22	Trunks and valises.....	3	36	3	5	.....	2	26	No 31	Ap 20	31	30	1	.....	.....	77,399
23	All other industries *.....	56	2,214	48	98	65	74	1,929	.....	.....	2,047	1,190	732	59	66	7,559,306

\* All other industries embrace—  
Artificial stone products..... 1  
Automobile bodies and parts..... 1  
Automobile repairing..... 2  
Awnings, tents, and sails..... 1  
Bags, other than paper, not including bags made in textile mills..... 2

Bookbinding and blank-book making..... 1  
Boot and shoe cut stock..... 1  
Boxes, set-up paper boxes..... 1  
Brass and bronze products..... 1  
Brooms, from broom corn..... 1  
Brushes..... 1

Carpets, rag..... 2  
Cleansing and polishing preparations..... 1  
Clothing, men's..... 1  
Cordage and twine..... 4  
Dyestuffs and extracts—natural..... 1  
Electroplating..... 1  
Flour-mill and gristmill products..... 1

Food preparations, not elsewhere specified..... 2  
Furs, dressed..... 1  
Gas, illuminating and heating..... 1  
Glass, cutting, staining, and ornamenting..... 2

1	HAVERHILL—All industries..	405	17,833	407	765	265	613	15,783	De 18,089	Jy 14,198	18,297	11,602	6,355	201	130	89,601,758
2	Boot and shoe cut stock.....	66	1,019	77	45	29	27	841	No 941	Au 758	939	712	201	22	4	6,092,176
3	Boot and shoe findings.....	79	1,864	91	90	30	79	1,574	De 1,788	Ja 1,371	1,849	1,300	523	18	8	3,529,309
4	Boots and shoes, not including rubber boots and shoes.....	137	12,748	107	523	151	438	11,529	.....	.....	13,456	8,181	5,055	157	113	22,295,772
5	Regular factory products.....	122	12,432	92	514	151	433	11,242	De 13,043	Jy 9,861	13,141	8,020	4,861	152	108	22,221,433
6	Contract work.....	5	117	4	6	.....	2	105	Oc 118	Ja 84	111	102	4	5	.....	25,313
7	Stitching and crimping.....	10	199	11	3	.....	3	182	De 203	Ap 159	204	9	190	.....	5	49,026
8	Boxes, set-up paper boxes and cartons.....	5	191	6	6	.....	4	176	De 205	Jy 153	205	75	128	1	1	333,174
9	Boxes, wooden packing, except cigar boxes.....	3	209	1	9	1	5	193	Ja 234	Je 167	200	139	60	.....	1	500,497
10	Bread and other bakery products.....	22	123	24	9	1	8	81	No 102	Ja 60	102	74	27	.....	1	184,606
11	Confectionery and ice cream.....	8	70	13	2	2	3	50	.....	.....	58	33	22	.....	3	117,726
12	Confectionery.....	4	43	8	.....	1	2	32	No 46	Je 23	45	23	19	.....	3	60,390
13	Ice cream.....	4	27	5	2	1	1	18	Au 25	No 11	13	10	3	.....	.....	57,336
14	Cutlery and edge tools.....	3	24	5	.....	.....	.....	19	Ja 20	Je 17	20	20	3	.....	.....	37,013
15	Foundry and machine-shop products.....	7	96	10	5	6	3	72	De 97	Fe 56	97	95	1	1	.....	156,137
16	Mineral and carbonated waters.....	3	14	6	.....	.....	1	7	Jy 12	Ja 4	4	4	.....	.....	.....	32,068
17	Models and patterns, not including paper patterns.....	6	45	9	2	.....	2	32	De 41	Ja 25	41	39	2	.....	.....	62,049
18	Printing, job.....	13	32	13	.....	.....	.....	19	Mh 21	Jy 16	21	16	4	1	.....	45,963
19	Signs and advertising novelties.....	3	8	4	.....	.....	4	My 5	Ja 3	.....	5	5	.....	.....	.....	3,699
20	Tobacco, cigars.....	3	7	3	.....	.....	.....	4	Oc 6	Mh 3	6	4	2	.....	.....	5,650
21	All other industries *.....	47	1,383	38	75	45	43	1,182	.....	.....	1,294	955	330	1	8	6,295,919

\* All other industries embrace—  
Automobile bodies and parts..... 1  
Automobile repairing..... 2  
Blacking, stains, and dressings..... 2  
Brick, building..... 1  
Carpets, rag..... 2

Cleansing preparations..... 1  
Clothing, men's..... 2  
Electrical machinery, apparatus, and supplies..... 1  
Emery and other abrasive wheels..... 1  
Engravers' materials..... 1

Fancy articles, not elsewhere specified..... 1  
Flour-mill and gristmill products..... 2  
Gas fixtures..... 1  
Gas, illuminating and heating..... 1  
Hats, fur-felt..... 1  
Hats, wool-felt..... 1  
Iron and steel, welding..... 1  
Lamps, automobile..... 1  
Lasts..... 3  
Leather goods, not elsewhere specified..... 1

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.					Rent- <sup>2</sup>
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>		

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

Dollars. 2,445,444	Dollars. 1,018,871	Dollars. 30,513,600	Dollars. 54,107	Dollars. 106,759	Dollars. 12,136,150	Dollars. 91,992,342	Dollars. 4,188,042	Dollars. 163,246,082	Dollars. 67,065,698	145,646	109,985	15,962	396	1,115	18,188	13,623	1
9,550	14,281	111,433	.....	4,120	5,783	494,899	6,511	738,944	237,534	141	185	.....	.....	.....	6	.....	2
7,926	20,940	283,494	.....	18,335	4,595	1,163,873	38,574	1,874,956	672,509	195	.....	.....	.....	.....	195	.....	3
.....	832	39,777	.....	1,620	290	114,308	665	213,174	98,201	22	.....	.....	.....	.....	22	.....	4
.....	3,293	37,410	194	4,331	363	163,599	4,272	271,106	103,235	67	.....	.....	.....	.....	67	.....	5
.....	37,587	.....	.....	1,433	642	34,235	1,353	94,925	59,937	11	.....	.....	.....	.....	11	.....	6
1,641,267	648,611	25,997,711	.....	14,440	10,833,934	77,045,717	3,262,226	135,783,717	55,475,774	134,876	106,585	13,675	.....	1,070	13,646	12,741	7
87,346	9,209	321,023	14,861	4,424	45,486	1,229,448	50,419	1,947,518	867,651	995	150	2,077	25	.....	971	.....	8
275,445	83,609	894,207	.....	4,882	404,250	4,806,950	232,681	8,250,120	3,210,489	3,533	.....	.....	.....	.....	1,806	285	9
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13,987	4,987	157,407	2,502	2,068	8,435	182,138	6,982	445,523	250,403	196	.....	.....	46	.....	150	.....	10
.....	.....	2,995	.....	1,345	92	21,460	265	35,250	13,535	3	.....	.....	.....	.....	3	.....	11
3,040	200	7,492	75	788	50	9,776	191	29,357	19,390	3	.....	.....	.....	.....	3	.....	12
4,760	15,008	55,174	.....	1,354	2,620	158,586	1,252	270,790	110,952	427	350	.....	.....	.....	77	.....	13
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2,900	2,746	61,119	200	425	663	26,646	7,688	124,153	89,819	220	125	15	22	.....	58	.....	14
.....	.....	19,384	200	125	154	14,443	953	50,375	34,974	40	.....	.....	.....	.....	18	.....	15
2,900	2,746	41,735	.....	300	509	12,203	6,730	73,778	54,845	180	125	15	.....	.....	40	.....	16
1,936	.....	13,819	.....	810	584	32,862	1,600	79,777	45,315	17	.....	.....	.....	.....	17	.....	17
9,994	3,101	50,873	1,100	6,042	1,189	61,802	2,040	171,003	107,161	51	.....	.....	.....	.....	51	.....	18
18,719	17,500	140,136	128	6,851	5,570	94,361	7,735	398,847	296,751	98	25	.....	.....	.....	73	.....	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	30,413	.....	1,654	334	265,190	2,375	337,577	70,012	47	24	.....	.....	.....	23	.....	20
136,260	55,732	740,661	.....	9,093	370,968	1,590,670	43,278	3,432,321	1,798,373	1,178	455	37	.....	.....	686	234	21
5,266	3,458	20,622	.....	1,000	273	96,026	428	150,076	53,622	7	.....	.....	.....	.....	7	.....	22
247,068	136,364	1,510,247	35,047	21,744	450,029	4,899,806	517,507	8,596,948	3,679,635	3,558	2,136	158	303	45	916	363	23

Grease and tallow, not including lubricating greases.....	1	Jewelry.....	2	Musical instruments, pianos.....	1	Slaughtering and meat packing.....	1
Hardware, vehicle.....	1	Knit goods.....	1	Paper goods, not elsewhere specified.....	2	Tobacco, cigars and cigarettes.....	2
Hats, fur-felt.....	1	Liquors, malt.....	1	Patent and proprietary compounds, not elsewhere specified.....	1	Tobacco, smoking.....	1
House-furnishing goods, not elsewhere specified.....	1	Lumber and timber products.....	1	Pipes, tobacco.....	1	Toys and games.....	1
.....	1	Mattresses and spring beds, not elsewhere specified.....	2	Silk goods.....	1	Varnishes.....	1
.....	1	.....	.....	.....	.....	Wood, turned and carved.....	1

2,457,575	1,812,419	18,351,696	630,327	638,949	808,622	56,418,993	799,290	96,276,853	39,058,570	12,747	5,092	136	19	40	7,469	503	1
189,284	80,246	934,717	2,423	65,662	59,387	11,570,772	24,861	14,924,501	3,328,868	653	.....	.....	3	.....	650	.....	2
255,141	94,942	1,660,358	68,870	91,339	86,081	5,315,457	56,202	9,424,749	4,052,090	1,662	100	.....	.....	.....	1,562	18	3
1,662,115	985,464	13,766,655	551,002	373,075	487,370	38,045,102	199,685	59,699,812	26,454,025	4,465	467	.....	.....	.....	3,998	15	4
1,648,780	981,274	13,468,858	551,002	364,290	486,567	32,985,426	193,943	59,231,873	26,052,504	4,355	467	.....	.....	.....	3,888	15	5
9,365	1,682	137,966	.....	5,038	633	30,273	2,422	215,415	182,720	53	.....	.....	.....	.....	53	.....	6
3,990	2,508	159,831	.....	3,747	170	30,403	3,320	252,524	218,801	57	.....	.....	.....	.....	57	.....	7
15,760	4,236	169,091	.....	10,179	5,200	334,441	5,331	729,455	389,683	144	.....	.....	.....	.....	144	.....	8
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
40,623	7,657	193,961	.....	14,070	33,512	496,301	35,701	964,850	432,348	1,143	1,000	.....	.....	.....	143	.....	9
10,040	5,938	102,134	55	13,169	1,575	412,197	17,237	694,375	264,941	80	.....	.....	.....	.....	80	.....	10
7,000	6,113	47,612	.....	11,005	1,730	200,338	4,033	377,026	172,655	91	.....	.....	.....	.....	91	.....	11
.....	4,313	31,008	.....	8,477	402	90,787	2,759	200,113	106,667	25	.....	.....	.....	.....	25	.....	12
7,000	1,800	16,604	.....	2,528	1,328	109,551	1,274	176,913	66,038	66	.....	.....	.....	.....	66	.....	13
.....	.....	26,827	.....	1,400	77	13,807	2,299	63,272	47,306	21	.....	.....	.....	.....	21	.....	14
12,886	12,151	99,354	.....	4,092	1,971	125,409	2,676	320,261	192,176	62	.....	.....	7	.....	62	.....	15
.....	702	6,195	.....	1,574	242	37,131	754	70,026	32,141	18	.....	.....	.....	.....	18	.....	16
4,647	1,800	40,661	.....	3,750	944	12,957	852	143,746	129,937	15	.....	.....	.....	.....	15	.....	17
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	14,809	.....	3,331	290	28,135	1,082	82,786	53,569	36	.....	.....	.....	.....	36	.....	18
.....	.....	4,860	.....	1,080	.....	3,519	252	18,171	14,400	1	.....	.....	.....	.....	1	.....	19
.....	.....	5,025	.....	240	2,179	5,912	.....	17,899	11,457	.....	.....	.....	.....	.....	.....	.....	20
280,079	113,170	1,279,437	7,977	44,083	128,064	4,815,715	443,325	8,746,954	3,482,914	4,356	3,525	136	.....	40	655	470	21

Leather, tanned, curried, and finished.....	2	Mattresses and spring beds, not elsewhere specified.....	1	Musical instruments and materials, not elsewhere specified.....	1	Saws.....	1
Lumber, planing-mill products, not including planing mills connected with sawmills.....	1	Millinery and lace goods, not elsewhere specified.....	1	Optical goods.....	1	Shipbuilding, wooden, small boats.....	1
Marble and stone work, monuments and tombstones.....	2	Mucilage, paste, and other adhesives, not elsewhere specified.....	1	Paper and wood pulp.....	1	Slaughtering and meat packing.....	1
.....	.....	.....	.....	Pickles and sauces.....	1	Tools, machinists.....	1
.....	.....	.....	.....	Printing and publishing, newspapers and periodicals.....	2	Vinegar and cider.....	1
.....	.....	.....	.....	.....	.....	Woolen goods.....	1

\* Same number reported for one or more other months.

\* Same number reported throughout the year.



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

1	HOLYOKE—All industries.....	176	20,215	119	511	1,002	810	17,773	De 18,922	Fe 16,085	18,904	10,543	7,349	429	583	Dollars. 92,505,603
2	Automobile repairing.....	12	53	11	1	1	5	35	Jy 42	Ja 28	35	34	1	1	1	89,135
3	Bookbinding and blank-book making.....	6	894	3	17	42	28	794	De 831	Fe 755	832	466	251	76	39	2,268,205
4	Bread and other bakery products.....	26	174	29	5	13	7	120	Au 126	No 112	111	90	21	1	1	490,057
5	Copper, tin, and sheet-iron work.....	3	92	3	9	4	1	75	De 102	Mh 49	102	102	1	1	1	238,119
6	Foundry and machine-shop products.....	11	618	7	25	43	25	518	De 563	Jy 470	458	459	5	4	1	1,886,377
7	Machine shops.....	8	360	2	19	38	20	281	De 305	My 266	305	298	3	4	1	1,542,534
8	All other.....	3	258	5	6	5	5	237	My 319	De 163	163	161	2	1	1	343,543
9	Lumber, planing-mill products, not including planing mills connected with sawmills.....	3	188	16	7	3	162	Se 186	Ap 132	170	170	169	1	1	1	786,147
10	Marble and stone work.....	3	16	5	1	1	9	Oc 14	Ja 4	11	11	11	1	1	1	60,758
11	Mineral and carbonated waters.....	5	25	5	2	1	4	Ap 18	No 7	9	8	8	1	1	1	29,594
12	Paper and wood pulp.....	20	4,353	114	338	273	3,628	Au 4,174	Fe 3,034	4,174	3,094	1,080	1	1	1	26,738,584
13	Paper goods, not elsewhere specified.....	5	617	8	27	52	508	De 563	Jy 470	563	361	202	1	1	1	2,452,757
14	Printing, job.....	11	93	8	30	4	73	Oc 88	Fe 61	76	48	26	2	1	1	133,278
15	Printing and publishing, newspapers and periodicals.....	6	127	2	11	6	30	(4) 78	(4) 78	78	66	10	2	1	1	192,243
16	Sausage, not made in slaughtering and meat-packing establishments.....	4	16	5	1	1	11	Au 12	Ap 10	12	11	1	1	1	1	16,344
17	Stationary goods, not elsewhere specified.....	8	1,330	53	175	91	1,011	No 1,096	Ap 974	1,067	466	561	20	20	1	3,511,056
18	Tobacco, cigars.....	7	44	9	1	1	34	My 36	Ja 32	35	25	10	1	1	1	47,444
19	All other industries*.....	47	11,585	82	219	345	285	10,704	De 18,922	Fe 16,085	11,161	5,135	5,183	319	524	53,585,045

*All other industries embrace—	Brass and bronze products.....	1	Chemicals.....	1	Dyeing and finishing textiles, exclusive of that done in textile mills.....	1
Artificial stone products.....	Brick, building.....	1	Confectionery, ice cream.....	1	Dyestuffs and extracts—natural.....	1
Automobile bodies and parts.....	Brooms, from broom corn.....	1	Corsets.....	1	Envelopes.....	1
Awnings, tents, and sails.....	Cars and general shop construction and repairs by electric-railroad companies.....	1	Cotton goods.....	3	Flour-mill and gristmill products.....	1
Belting, leather.....			Cotton small wares.....	1		
Bluing.....						
Boxes, set-up paper boxes.....						

1	LAWRENCE—All industries.....	194	31,940	143	652	382	444	30,319	De 37,083	Fe 18,269	30,650	21,595	13,262	838	955	171,477,984
2	Bread and other bakery products.....	48	222	44	9	3	8	158	De 175	Fe 135	175	146	25	4	1	371,707
3	Carpets, rag.....	3	8	3	1	1	5	Ap 6	Ja 4	6	6	4	1	1	1	2,125
4	Cotton goods.....	6	3,703	1	44	26	31	3,601	De 4,373	Fe 2,218	4,373	2,055	2,053	134	101	22,861,088
5	Foundry and machine-shop products.....	14	520	11	26	20	9	454	De 4,373	Fe 2,218	4,373	2,055	2,053	134	101	1,024,192
6	Boiler shops and foundries.....	3	112	2	2	1	107	De 123	My 96	97	97	1	1	1	1	286,247
7	Machine shops.....	11	408	9	24	20	8	347	De 385	My 323	388	387	1	1	1	1,337,945
8	Leather goods, not elsewhere specified.....	8	35	2	1	1	2	29	Mh 33	Jy 24	28	26	1	2	1	43,100
9	Marble and stone work.....	4	15	4	1	1	11	Je 13	Ja 7	13	13	1	1	1	1	67,816
10	Mattresses and spring beds, not elsewhere specified.....	3	13	4	1	1	9	My 10	Ja 7	8	6	2	1	1	1	65,290
11	Paper and wood pulp.....	3	812	17	17	7	771	Fe 824	Jy 744	791	663	128	1	1	1	3,504,607
12	Printing, job.....	10	35	11	5	8	24	Se 25	Ja 23	25	19	6	1	1	1	52,800
13	Printing and publishing, newspapers and periodicals.....	9	141	5	9	5	114	De 119	Ja 109	119	101	9	9	1	1	271,557
14	Sausage, not made in slaughtering and meat-packing establishments.....	6	20	7	1	1	13	Oc 14	Se 11	14	12	2	1	1	1	58,600
15	Textile machinery and parts.....	5	513	5	7	13	475	De 506	Mh 433	506	382	108	9	7	1	1,815,070
16	Tobacco, cigars.....	3	5	3	1	1	2	My 3	No 1	2	2	1	1	1	1	2,835
17	Worsted goods.....	11	19,060	398	214	253	19,101	De 24,377	Fe 9,681	23,935	12,819	9,694	635	787	1	114,583,186
18	All other industries*.....	66	5,932	43	141	83	113	5,552	De 24,377	Fe 9,681	6,170	4,863	1,204	47	50	26,652,811

*All other industries embrace—	Belting, leather.....	3	Butter.....	1	Cotton small wares.....	1
Artificial stone products.....	Boots and shoes, not including rubber boots and shoes.....	2	Carpets and rugs, other than rag.....	1	Dyeing and finishing textiles, exclusive of that done in textile mills.....	3
Automobile bodies and parts.....	Boxes, wooden packing, except cigar boxes.....	1	Carriages and wagons.....	2	Dyestuffs and extracts—natural.....	1
Automobiles.....	Boxes, wooden packing, except cigar boxes.....	1	Clothing, women's.....	1	Envelopes.....	1
Automobile repairing.....	Boxes, wooden packing, except cigar boxes.....	1	Coffee, roasting and grinding.....	1	Flour-mill and gristmill products.....	1
Awnings, tents, and sails.....	Brass and bronze products.....	2	Confectionery, ice cream.....	1	Food preparations, macaroni, vermicelli, and noodles.....	1
Belting and hose, woven, other than rubber.....	Brooms, from broom corn.....	2	Copper, tin, and sheet-iron work.....	1		
	Brushes.....	1				

1	LOWELL—All industries.....	291	32,139	236	580	543	669	30,111	Ja 34,851	Mh 27,896	31,154	17,068	13,020	534	532	114,940,546
2	Belting, leather.....	3	22	2	2	1	17	No 21	Ja 12	20	17	3	1	1	1	90,064
3	Boots and shoes, not including rubber boots and shoes.....	5	784	1	39	40	30	De 984	Au 443	984	580	307	55	42	1	1,506,094
4	Boxes, wooden packing, except cigar boxes.....	7	307	6	10	3	10	De 293	Ap 265	293	285	1	1	1	1	684,167
5	Bread and other bakery products.....	57	309	62	2	22	5	Mh 226	Se 209	221	186	34	1	1	1	273,038
6	Confectionery and ice cream.....	10	44	14	1	1	28	(4) 3	(4) 3	25	21	3	1	1	1	71,239
7	Confectionery.....	4	9	6	1	1	3	(4) 3	(4) 3	4	2	1	1	1	1	7,154
8	Ice cream.....	6	35	8	1	1	25	Au 32	Ja 13	21	19	2	1	1	1	64,085
9	Copper, tin, and sheet-iron work.....	6	51	6	2	1	3	No 44	Ja 32	40	40	1	1	1	1	96,936
10	Cotton goods.....	9	12,839	1	161	93	105	Oc 13,322	Mh 11,377	13,429	7,178	5,786	245	226	1	50,078,153
11	Cotton small wares.....	4	88	1	8	1	76	Ja 97	My 56	94	36	50	1	1	1	226,788
12	Dyeing and finishing textiles, exclusive of that done in textile mills.....	5	1,065	30	42	46	947	No 1,064	Ap 854	1,039	838	184	16	1	1	3,999,576

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

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



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

Dollars. 2, 447, 410	Dollars. 2, 359, 093	Dollars. 17, 318, 128	Dollars. 990, 371	Dollars. 120, 224	Dollars. 4, 188, 780	Dollars. 49, 231, 283	Dollars. 1, 925, 699	Dollars. 93, 426, 775	Dollars. 42, 266, 793	76, 893	28, 162	10, 475	.....	27, 427	10, 829	13, 310	1
1, 994	4, 480	56, 270	.....	3, 014	542	52, 605	1, 935	160, 223	105, 683	42	.....	.....	.....	.....	42	.....	2
109, 978	131, 002	708, 460	.....	948	94, 978	1, 228, 980	15, 199	2, 852, 417	1, 608, 238	275	200	.....	.....	.....	75	.....	3
11, 687	22, 798	139, 334	300	10, 088	7, 685	564, 420	22, 313	950, 897	903, 894	145	.....	.....	.....	.....	145	.....	4
24, 015	5, 775	94, 297	.....	1, 620	10, 606	186, 923	2, 034	367, 834	178, 872	133	.....	.....	.....	.....	133	.....	5
123, 188	84, 934	606, 476	525	10, 906	77, 227	833, 216	50, 211	2, 387, 931	1, 594, 554	1, 159	325	.....	.....	150	680	238	6
89, 918	62, 429	324, 355	525	7, 382	66, 233	519, 821	22, 058	1, 403, 012	891, 133	700	200	.....	.....	150	350	230	7
33, 220	23, 505	282, 121	.....	3, 524	10, 094	313, 365	28, 158	984, 949	643, 396	455	125	.....	.....	.....	330	8	8
43, 677	12, 275	187, 679	.....	8, 500	13, 329	899, 120	3, 241	1, 349, 854	447, 493	431	370	.....	.....	.....	61	.....	9
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1, 940	700	11, 308	.....	380	411	16, 305	1, 615	37, 591	19, 671	58	.....	.....	.....	.....	58	.....	10
3, 200	3, 760	17, 984	.....	938	1, 200	42, 718	2, 228	87, 555	42, 609	29	.....	.....	.....	.....	29	.....	11
578, 765	694, 319	4, 043, 999	17, 308	283	765, 132	12, 104, 982	908, 897	21, 375, 894	8, 364, 015	37, 776	14, 593	1, 675	.....	20, 652	856	4, 436	12
168, 128	108, 087	507, 398	19	6, 286	141, 511	2, 199, 109	50, 775	3, 644, 794	1, 394, 910	1, 407	536	.....	.....	.....	871	.....	13
13, 950	3, 079	63, 572	.....	6, 035	1, 673	51, 657	3, 292	201, 780	146, 831	86	.....	.....	.....	2	84	.....	14
37, 806	26, 099	83, 621	78, 763	7, 040	3, 124	98, 021	8, 062	398, 925	291, 942	329	.....	.....	.....	.....	329	.....	15
.....	.....	12, 479	.....	1, 736	664	97, 451	750	127, 105	28, 904	27	.....	.....	.....	.....	27	.....	16
214, 340	319, 196	784, 139	.....	20, 206	195, 347	2, 181, 376	17, 946	4, 491, 361	2, 292, 039	519	40	.....	.....	100	379	.....	17
.....	750	86, 100	.....	2, 551	12, 352	40, 212	786	124, 223	74, 225	1	.....	.....	.....	.....	1	.....	18
1, 114, 762	941, 839	9, 905, 014	893, 456	39, 765	2, 882, 999	28, 624, 283	841, 415	54, 868, 661	25, 402, 903	34, 480	12, 098	8, 800	.....	6, 523	7, 059	8, 636	19

Furniture, store and office fixtures.....	1	Millinery and lace goods, not elsewhere specified.....	1	Photo-engraving.....	1	Toys and games.....	1
Gas, illuminating and heating.....	1	Mucilage and paste.....	1	Pumps, steam.....	1	Vault lights and ventilators.....	1
Grease, soap stock.....	1	Musical instruments and materials, not elsewhere specified.....	1	Saddlery and harness.....	1	Wire.....	1
Hand stamps.....	1			Silk goods.....	2	Wretwork, not elsewhere specified.....	1
Iron and steel, welding.....	1			Steam fittings and steam and hot-water heating apparatus.....	1	Woolen goods.....	2
Mattresses and spring beds, not elsewhere specified.....	1					Worsted goods.....	5

3, 151, 748	1, 178, 385	32, 361, 608	1, 514, 033	76, 818	12, 441, 091	106, 506, 196	4, 452, 414	183, 440, 096	72, 490, 486	124, 155	30, 312	71, 223	853	16, 630	5, 137	74, 283	1
25, 170	6, 908	199, 840	-----	17, 850	9, 282	861, 705	28, 254	1, 409, 364	510, 405	198	-----	-----	-----	-----	198	-----	2
-----	-----	5, 476	-----	596	-----	2, 520	199	7, 535	4, 810	4	-----	-----	-----	-----	4	-----	3
182, 886	62, 708	3, 478, 794	2, 092	1, 238	1, 872, 667	12, 500, 458	305, 202	20, 937, 148	8, 131, 488	25, 811	3, 320	14, 159	850	7, 099	383	15, 098	4
130, 855	44, 066	615, 049	-----	4, 490	66, 600	835, 641	42, 374	1, 937, 450	1, 059, 435	1, 147	426	-----	-----	80	641	240	5
4, 387	1, 040	158, 327	-----	2, 400	1, 641	138, 204	14, 478	332, 751	180, 069	200	-----	-----	-----	-----	200	-----	6
126, 468	43, 028	456, 722	-----	2, 090	64, 959	697, 437	27, 896	1, 604, 699	879, 366	947	426	-----	-----	80	441	240	7
2, 075	3, 598	29, 729	-----	2, 196	525	54, 942	432	103, 517	48, 143	44	-----	-----	-----	14	30	-----	8
-----	-----	14, 424	6, 971	183	605	23, 123	1, 435	67, 687	43, 129	84	-----	-----	-----	-----	84	-----	9
-----	-----	9, 485	-----	1, 640	326	54, 769	624	73, 938	18, 545	13	-----	-----	-----	-----	13	-----	10
113, 796	40, 534	1, 037, 869	-----	-----	48, 317	1, 942, 598	272, 218	3, 697, 646	1, 482, 830	4, 070	2, 290	300	-----	1, 480	-----	525	11
-----	-----	24, 623	1, 364	4, 106	172	27, 870	1, 656	84, 162	54, 636	40	-----	-----	-----	-----	40	-----	12
49, 156	11, 615	148, 176	7, 758	5, 325	9, 772	104, 727	7, 253	419, 934	307, 954	138	-----	-----	-----	-----	138	-----	13
-----	-----	13, 303	-----	-----	285	113, 116	2, 483	167, 916	47, 317	63	20	-----	-----	-----	43	-----	14
59, 695	52, 705	458, 650	963	2, 400	191, 772	789, 690	14, 165	1, 954, 892	1, 151, 037	563	315	-----	-----	-----	248	300	15
-----	-----	1, 738	-----	233	1, 739	3, 990	114	12, 195	8, 081	-----	-----	-----	-----	-----	-----	-----	16
1, 984, 420	731, 621	20, 026, 556	1, 431, 747	2, 896	7, 150, 936	76, 788, 069	2, 573, 113	125, 700, 609	46, 399, 421	78, 021	20, 023	51, 624	-----	5, 957	417	47, 387	17
604, 195	224, 510	6, 301, 386	62, 238	32, 837	3, 089, 004	12, 307, 978	1, 202, 887	26, 815, 104	13, 214, 239	13, 959	3, 918	5, 140	3	2, 000	2, 898	10, 763	18

Furniture, wood, other than rattan and willow.....	1	Lumber, planing-mill products, not including planing mills connected with sawmills.....	2	Patent and proprietary compounds, not elsewhere specified.....	1	Steam fittings and steam and hot-water heating apparatus.....	1
Gas, illuminating and heating.....	1	Mineral and carbonated waters.....	1	Paving materials.....	1	Tools, not elsewhere specified.....	1
House-furnishing goods, not elsewhere specified.....	1	Models and patterns, not including paper patterns.....	2	Pumps, steam.....	2	Wood, turned and carved.....	1
Iron and steel, welding.....	1	Off, animal.....	1	Soap.....	1	Wooden goods, not elsewhere specified.....	1
Knit goods.....	1			Stationery goods, not elsewhere specified.....	2	Wool scouring.....	1
Liquors, malt.....	2					Woolen goods.....	1

2,571,484	1,527,806	29,864,920	506,121	278,840	6,932,266	74,204,498	2,788,010	137,801,538	60,809,030	85,556	19,929	28,509	70	25,860	11,188	36,351	1
6,882	728	20,711	-----	1,441	1,307	113,556	513	164,880	50,811	9	-----	-----	-----	-----	9	-----	2
161,489	97,875	584,790	-----	12,098	25,510	1,732,665	20,310	3,137,655	1,384,680	476	304	-----	-----	-----	172	-----	3
49,270	15,667	245,795	-----	3,000	44,192	753,339	209	1,245,871	492,323	1,430	1,140	250	-----	-----	40	307	4
7,392	30,160	240,407	-----	24,383	6,361	1,092,985	38,773	1,723,508	591,750	169	-----	-----	-----	-----	169	-----	5
1,500	936	37,028	-----	4,895	2,024	182,635	2,243	296,520	111,642	142	80	-----	10	-----	52	-----	6
-----	-----	3,549	-----	1,128	122	10,893	3	635	10,114	2	-----	-----	-----	-----	6	-----	7
1,500	936	33,477	-----	3,767	1,902	166,332	1,008	268,468	95,528	140	80	-----	10	-----	50	-----	8
7,000	3,764	48,245	-----	2,182	1,843	84,645	1,619	168,300	112,136	5	-----	-----	-----	-----	5	-----	9
613,330	283,305	11,661,528	88,824	40,000	2,941,534	84,734,814	1,260,825	60,451,044	24,456,238	54,217	5,875	25,108	10	22,535	689	32,438	10
23,185	3,402	45,783	246	3,997	6,179	210,569	3,950	67,919,018	159,392	131	-----	-----	-----	-----	131	-----	11
207,869	96,539	997,893	-----	5,893	281,466	2,906,819	116,153	5,399,860	2,346,888	3,020	1,010	1,860	-----	-----	150	1400	12

\* Same number reported for one or more other months.

\* Same number reported throughout the year.



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

LOWELL—Continued.														Dollars.				
1	Food preparations, not elsewhere specified.	3	28	4				24	De	36	Oc	4	36	11	25	14,432		
2	Foundry and machine-shop products	17	681	13	23	50	48	547					627	620	2	5	3,940,555	
3	Boiler shops and foundries.	5	174	3	10		7	154	Ap	218	Jy	118	166	166			352,556	
4	Machine shops.	12	507	10	13	50	41	393	De	461	Je	353	461	454	2	5	3,587,996	
5	Knit goods.	5	5,471	2	22	14	76	5,357	De	5,679	My	5,041	5,679	1,598	3,932	56	93	10,647,355
6	Lumber, planing-mill products, not including planing mills connected with sawmills.	6	130	1	13	3	9	104	No	116	Fe	91	110	110			540,558	
7	Marble and stone work, monuments and tombstones.	5	9	5				4	Je	3	Ja	1	5	5			13,349	
8	Mattresses and spring beds, not elsewhere specified.	3	26	3			2	21	Fe	23	My	19	22	19	3		38,563	
9	Mineral and soda waters.	6	25	7	2		1	15	Je	18	De	12	14	14			86,238	
10	Patent medicines and compounds.	5	198	2	12	11	28	145	No	203	Je	106	184	98	86		1,562,804	
11	Printing, job.	9	65	10	2			53	Oc	56	Je	47	56	51	5		85,541	
12	Printing and publishing, newspapers and periodicals.	9	152	6	14	22	12	98					105	94	11		598,039	
13	Printing and publishing.	3	124	2	11	22	11	78	De	84	Je	72	85	77	8		414,989	
14	Printing, publishing, and job printing.	3	24	3	1			20	(4)	20	(4)	20	20	17	3		181,850	
15	Printing without printing.	3	4	1	2		1										1,200	
16	Textile machinery and parts.	12	2,333	5	72	50	66	2,140	Oc	2,603	Ap	1,775	1,828	1,668	129	25	6	5,674,722
17	Tobacco, cigars and cigarettes.	3	22	7	1			13	De	15	Se	11	14	12	2		28,813	
18	Wirework, not elsewhere specified.	3	28	2	2		2	21	De	35	My	13	45	23		12	10	51,789
19	Woolen goods.	5	787		44	13	7	723	Je	841	Fe	331	784	533	248	3		3,372,736
20	Worsted goods.	3	1,258	9	39	5	13	1,202	De	1,391	Fe	783	1,391	448	787	32	124	3,075,021
21	All other industries *	81	5,417	67	91	172	199	4,888					4,109	2,583	1,429	75	22	22,183,971

*All other industries embrace—	Boxes, set-up paper boxes.	2	Cleansing preparations.	1	Engraving, steel and copper plate, including plate printing.	1
Ammunition.	Brass and bronze products.	1	Clothing, women's.	3	Fancy articles, not elsewhere specified.	1
Artificial limbs.	Brooms.	1	Coffee, roasting and grinding.	1	Felt goods.	1
Artists' materials, crayons.	Brushes.	1	Combs and hairpins, not made from metal or rubber.	1	Furniture, wood, other than rattan and willow.	2
Automobile bodies and parts.	Carpets and rugs, other than rag.	1	Druggists' preparations.	1	Gas, illuminating and heating.	1
Automobile repairing.	Carpets, rag.	2	Electrical machinery, apparatus, and supplies.	3	Glass, cutting, staining, and ornamenting.	1
Awnings, tents, and sails.	Carriages and wagons.	1	Electroplating.	1		
Bookbinding and blank-book making.	Cars and general shop construction and repairs by electric-railroad companies.	1				
Boot and shoe cut stock.		1				

LYNN—All industries.														28,522	21,131	7,065	216	110	97,501,713
1	Automobile repairing.	4	23	3				2	18	My	21	Fe	13	19	19				27,654
2	Blacking, stains, and dressings.	11	149	6	10	23	28	77	De	84	Ap	71	84	54	30				326,335
3	Boot and shoe cut stock.	39	958	45	53	26	38	796	De	846	Ap	738	846	650	159	36	1		9,012,323
4	Boot and shoe findings.	57	1,146	64	44	32	44	962	De	1,141	My	777	1,151	757	349	18	27		2,669,726
5	Boots and shoes, not including rubber boots and shoes.	105	13,480	72	471	270	544	12,123					13,164	7,661	5,315	127	61		27,728,162
6	Regular factory products.	93	13,368	59	470	269	542	12,028	De	12,953	My	11,253	13,024	7,820	5,219	127	58		27,692,268
7	All other.	12	112	13	1		2	95	No	135	Jy	72	140	41	96				35,894
8	Boxes, set-up paper boxes.	4	137	4	14	2	3	114	No	117	Ap	112	115	47	61				245,114
9	Bread and other bakery products.	43	274	47	9	21	21	176	Ap	190	Ja	163	187	141	46		1		247,445
10	Clothing, women's.	3	55	3	2		2	45	No	66	Ja	25	60	1	58				66,265
11	Confectionery and ice cream.	7	59	4	4	2	11	38	Jy	29	Se	14	44	23	21				105,657
12	Confectionery.	3	24	3	2			19	Jy	27	Ja	14	29	14	15				49,422
13	Ice cream.	4	35	1	2		11	19	Jy	27	Ja	14	15	9	6				56,235
14	Cutlery and edge tools.	3	28	2	3		1	21	Ap	22	Mh	20	21	21					24,660
15	Electrical machinery, apparatus, and supplies.	6	12,433	1	455	1,020	873	10,084	De	11,591	Mh	9,270	9,591	9,055	505	1			38,278,897
16	Foundry and machine-shop products.	19	464	18	20	43	26	357	No	403	Ja	282	395	388	7				1,047,658
17	Leads.	8	399	6	21	16	9	347	Jy	411	Ja	263	360	332	17	11			738,836
18	Leather, tanned, curried, and finished.	11	1,105	3	28	12	23	1,041	De	1,188	Ja	828	1,188	1,038	150				11,568,052
19	Lumber, planing-mill products, not including planing mills connected with sawmills.	5	29	3	2		3	21	De	27	My	15	27	27					79,209
20	Marble and stone work, monuments and tombstones.	4	20	5			2	13	My	17	Ja	10	12	12					28,499
21	Mattresses and spring beds, not elsewhere specified.	3	9	3			1	5	(4)	5	(4)	5	5	4	1				10,800
22	Mineral and carbonated waters.	4	36	6	3	2	2	23	Je	35	Ja	17	18	18					68,443
23	Models and patterns, not including paper patterns.	12	62	16			3	43	Je	48	Oc	35	49	48		1			75,915
24	Mudlage, paste, and other adhesives, not elsewhere specified.	4	67	4	6	12	6	39	No	46	Ap	33	46	36	4	6			296,310
25	Printing, job.	20	185	19	8	5	15	138	No	168	Ja	115	167	118	43	5	1		339,558
26	Tools, not elsewhere specified.	4	27	3	3	1	1	19	De	35	Ja	8	35	35					52,335
27	All other industries *	66	1,121	51	54	50	114	852					938	616	293	10	19		4,463,805

* All other industries embrace—	Brass and bronze products.	1	Cars and general shop construction and repairs by electric-railroad companies.	1	Flour-mill and gristmill products.	2
Artificial stone products.	Brick, building.	1	Clothing, men's, buttonholes.	1	Food preparations, not elsewhere specified.	2
Automobile bodies and parts.	Brushes.	1	Copper, tin, and sheet-iron work.	1	Gas, illuminating and heating.	1
Awnings, tents, and sails.	Butter.	2	Druggists' preparations.	2	Grease, soap stock.	1
Babbit metal and solder.	Carriage and wagon materials.	1	Electroplating.	1	Hair work.	2
Baking powders.	Carriages and wagons, repair work only.	2	Flavoring extracts.	1	Iron and steel, cut nails and spikes, not made in steel works or rolling mills.	1

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

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



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.				
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>	Rent- ed. <sup>2</sup>	

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.						
72,500	91,614	602,956	385,029	15,535	34,659	1,086,820	44,944	2,284,779	1,153,015	747	312	56	23	356	150	2
31,277	7,302	179,070	127,464	6,505	13,561	234,393	13,209	551,746	304,144	238	75			163		3
41,223	84,312	423,886	385,029	9,030	21,098	852,427	31,735	1,733,033	848,871	509	237	56	23	193	150	4
105,876	112,813	5,008,872			626,452	9,873,481	121,699	17,172,099	7,176,919	8,211	4,650	1,035		326	948	5
46,287	11,446	131,248		8,791	44,166	743,262	6,653	1,131,274	381,359	226	15			211		6
		4,257	7,701	400	176	5,532	553	30,554	24,469	22	12			10		7
	1,374	20,862	150	2,940	528	51,122	491	90,293	38,680	33				33		8
2,500	750	13,173		3,094	3,524	50,782	1,170	87,999	36,047	36				36		9
84,236	28,941	127,464		4,395	113,568	595,011	7,642	1,512,540	909,887	621	571			50	6	10
9,800	3,696	61,223		5,993	2,399	106,956	3,266	254,530	144,308	105				105		11
33,525	40,895	167,779	5,616	4,200	18,991	172,406	10,997	661,323	477,920	161				161		12
28,525	38,420	143,509		2,480	15,855	122,657	9,093	541,895	410,145	140				140		13
	1,875	24,270		720	3,011	49,749	1,904	101,617	49,964	21				21		14
5,000	600		5,616	1,000	125			17,811	17,811							15
229,571	157,495	2,565,036		7,476	184,258	2,832,582	101,849	7,185,194	4,250,763	2,734	585			590	1,559	16
1,560	200	12,429		2,104	8,870	28,699	317	57,983	28,947	1				1		17
2,588	2,918	19,351	544	1,492	896	53,307	837	89,888	35,744	50	25			25		18
162,770	22,720	880,150	534	6,200	375,879	3,127,221	84,356	5,368,558	2,158,981	1,969	1,200			310	459	19
100,610	76,522	1,017,382		41,196	191,538	2,280,963	101,615	4,429,638	2,067,160	2,876	1,675			225	976	20
641,744	464,046	5,330,655	17,477	73,330	2,015,918	11,389,059	855,601	24,443,848	12,199,188	8,150	2,475	200	27	5,448	859	21

Glucose and starch.....	1	Millinery, trimmed hats and hat frames.....	1	Sausage, not made in slaughtering and meat-packing establishments. Scales and balances.....	2	Structural ironwork, not made in steel works or rolling mills.....	3
Glue, fish.....	1	Models and patterns, not including paper patterns.....	1	Screws, machine.....	1	Suspenders, garters, and elastic woven goods.....	1
Iron and steel, welding.....	1	Musical instruments, piano materials.....	1	Signs, other than electric.....	1	Toys and games.....	1
Jewelry.....	1	Paper goods, not elsewhere specified.....	2	Soap.....	2	Vinegar and cider.....	2
Leather goods, not elsewhere specified.....	1	Perfumery and cosmetics.....	1	Stationary goods, not elsewhere specified.....	1	Window and door screens.....	2
Leather, tanned, curried, and finished.....	1	Phonographs and graphophones.....	1	Stencils and brands.....	1	Wire.....	1
Liquors, malt.....	1	Pickles and preserves.....	2	Stereotyping and electrotyping.....	1	Wood, turned and carved.....	2
Looking-glass and picture frames.....	1					Wood scouring.....	1

4,405,016	4,295,653	32,992,420	185,265	756,298	5,295,651	83,626,797	1,382,549	160,905,792	75,896,446	29,132	4,114	16,627	15	8,376	29,800	1
33,160	1,384	13,903		3,122	326	44,242	1,346	78,586	32,998	27				27		2
238,058	69,131	98,959		26,131	5,637	566,258	1,922	942,601	374,421	38				38		3
142,267	133,974	741,019	19,009	58,556	395,840	18,512,409	22,526	23,152,402	4,617,467	454	150			304	110	4
1,895,934	87,563	926,287	14,190	70,917	34,311	4,534,482	22,854	7,057,957	2,500,621	691				691		5
1,895,184	1,398,191	15,068,732	71,874	406,911	1,147,351	37,745,424	153,991	66,457,349	28,557,934	3,476	433			3,043	42	6
	1,395,943	14,992,728	71,874	403,735	1,147,130	37,721,498	151,612	66,319,719	28,446,609	3,412	433			2,979	42	7
750	2,248	76,004		3,176	221	23,926	2,379	137,630	111,325	64				64		8
17,593	7,073	89,113		10,786	3,371	211,980	2,874	505,239	290,385	46				46		9
18,503	38,738	199,330		24,145	7,399	1,046,889	27,539	1,631,554	557,126	139				139		10
1,874	1,140	28,273	125	1,384	140	46,007	553	110,340	63,780	12				12		11
5,890	10,940	39,138		6,888	3,988	126,178	4,683	251,153	120,292	99	20			79		12
1,740		16,634		1,550	2,020	58,452	1,292	102,360	42,616	35	20			15		13
4,150	10,940	22,504		5,336	1,968	67,726	3,391	148,793	77,676	64				64		14
7,022	2,447	32,181		759	158	16,610	2,186	80,231	61,435	23				18		15
1,273,746	2,189,210	12,463,448		9,590	2,071,809	6,548,792	486,857	33,149,457	26,113,808	17,620	1,383	16,000	5	237	29,333	16
60,804	64,061	427,225	1,141	31,828	19,699	387,415	15,158	1,209,363	806,790	358	10			348		17
84,486	41,413	400,493	5,698	9,817	70,563	420,661	20,822	1,479,362	1,037,879	619				619		18
332,425	51,610	1,269,916	52,638	18,745	925,383	10,526,249	75,772	15,824,162	5,222,141	2,901	1,100			1,201		19
8,000	3,124	34,616		3,768	586	50,728	3,449	123,676	69,499	153				153		20
	1,004	21,282		419	339	12,287	2,336	52,856	38,233	72				72		21
	1,750	4,262	500	1,200	47	12,290	225	27,274	14,759	18				18		22
5,420	3,351	22,127		1,500	5,368	92,050	1,920	178,905	84,935	36				36		23
	896	67,374	2,668	7,970	911	25,270	2,026	196,497	169,201	46				46		24
25,980	29,833	43,987		4,400	30,657	411,322	4,017	710,039	294,700	137	105			32	8	25
27,693	18,833	127,159	1,258	13,642	5,030	173,261	3,449	501,081	324,371	152			10	142		26
3,794	1,498	18,132		2,161	306	7,675	380	44,244	35,709	28				28		27
222,367	138,489	800,404	16,164	41,661	566,432	2,108,313	525,184	7,141,464	4,507,962	2,582	913	627		1,042	307	28

Iron and steel, welding.....	1	Paving materials.....	2	Rubber tires, tubes, and rubber goods, not elsewhere specified.....	1	Stencils and brands.....	1
Leather goods, not elsewhere specified.....	2	Perfumery and cosmetics.....	2	Saddlery and harness.....	1	Surgical appliances.....	1
Millinery and lace goods, embroidered.....	1	Photo-engraving.....	1	Screens, machine.....	1	Tobacco, cigars.....	2
Paper goods, not elsewhere specified.....	1	Printing and publishing, newspapers and periodicals.....	6	Shipbuilding, wooden, repair work only.....	1	Typewriter supplies, carbon paper.....	1
Patent and proprietary medicines.....	4	Pulp goods.....	1	Soap.....	1	Wirework, not elsewhere specified.....	1
						Wooden goods, not elsewhere specified.....	1

<sup>1</sup> Same number reported for one or more other months.<sup>2</sup> Same number reported throughout the year.



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

1	NEW BEDFORD—All industries.	257	43,226	231	565	393	404	41,630	De 44,197	Ap 39,852	44,209	25,591	16,689	915	1,014	Dollars.
2	Automobile repairing.	17	66	14	4	2	4	42	Ja 45	Se 38	46	46	—	—	—	80,832
3	Bread and other bakery products.	55	540	63	16	28	16	417	Ja 448	My 382	419	322	76	—	21	800,802
4	Confectionery and ice cream.	9	80	18	3	2	7	56	Je 64	Ja 50	55	30	26	—	—	134,118
5	Copper, tin, and sheet-iron work.	8	65	7	3	—	5	50	Au 58	Ap 45	48	48	—	—	—	91,267
6	Cotton goods.	31	35,808	5	281	157	159	35,296	De 87,002	Ap 33,805	36,904	20,165	15,020	805	914	153,900,717
7	Foundry and machine-shop products.	10	280	7	8	6	2	257	No 267	Au 235	253	238	16	2	—	358,949
8	Lumber, planing-mill products, not including planing mills connected with sawmills.	6	77	6	4	—	2	65	No 75	Ja 50	75	74	1	—	—	134,205
9	Marble and stone work.	6	34	5	2	—	1	26	Se 37	Fe 10	23	23	—	—	—	78,083
10	Mineral and carbonated waters.	7	53	7	3	—	5	41	Jy 52	Ja 29	40	36	3	1	—	127,550
11	Oil, animal and composite.	4	79	2	6	1	5	65	De 74	Mh 62	74	60	14	—	—	903,784
12	Patent medicines and compounds.	3	9	1	1	—	—	7	(*)	(*)	7	6	1	—	—	14,395
13	Printing and publishing, book and job.	16	94	19	4	3	3	65	De 71	Ja 60	74	53	21	—	—	102,476
14	Printing and publishing, newspapers and periodicals.	9	213	5	19	22	16	151	De 156	Ja 146	153	142	11	—	—	215,003
15	Sausage, not made in slaughtering and meat-packing establishments.	7	46	9	2	2	2	31	Ja 32	Je 30	2	28	4	—	—	61,297
16	Shipbuilding, wooden, small boats.	3	35	3	2	—	4	26	My 33	Ja 18	32	32	—	—	—	36,716
17	Textile machinery and parts.	9	186	9	10	1	6	160	De 177	My 149	177	134	40	3	—	225,642
18	All other industries*.	67	5,552	51	197	172	167	4,965	—	—	5,794	4,164	1,467	104	79	17,332,479

* All other industries embrace—	Boxes, set-up paper boxes.	2	Cars and general shop construction and repairs by electric-railroad companies.	2	Electrical machinery, apparatus, and supplies.	1
Artificial stone products.	Boxes, wooden packing, except cigar boxes.	2	Clothing, women's.	2	Firearms.	1
Automobile bodies and parts.	Brass and bronze products.	2	Coffee and spice, roasting and grinding.	2	Food preparations, not elsewhere specified.	2
Awnings, tents, and sails.	Brooms, from broom corn.	1	Card cutting and designing.	1	Furniture.	1
Bookbinding and blank-book making.	Carpets, rag.	1	Carriages and wagons, repair work only.	2	Copperage, hogsheds and barrels.	1
Boot and shoe findings.	—	—	—	—	Cordage and twine.	1
Boots and shoes, not including rubber boots and shoes.	—	—	—	—	Cotton small wares.	1
					Glass.	1

1	SOMERVILLE—All industries.	140	6,978	105	209	390	163	6,111	Fe 6,853	No 3,764	5,805	5,211	530	40	24	44,080,118
2	Automobile bodies and parts.	3	32	2	2	—	1	27	My 30	Ja 24	28	28	—	—	—	46,688
3	Bread and other bakery products.	29	352	32	12	22	7	279	Ap 313	Se 236	245	181	60	1	3	615,658
4	Clothing, women's.	3	47	3	—	1	—	43	Se 49	De 34	34	1	33	—	—	14,600
5	Confectionery and ice cream.	7	65	3	6	2	1	53	(*)	(*)	42	30	10	2	—	127,762
6	Confectionery.	3	14	3	—	—	—	11	(*)	(*)	11	11	2	8	1	26,583
7	Ice cream.	4	51	—	6	2	1	42	Jy 63	Ja 24	31	28	2	1	—	101,179
8	Grease and tallow, not including lubricating greases.	3	89	1	8	4	2	74	No 78	Ja 71	76	76	—	—	—	350,586
9	House-furnishing goods, not elsewhere specified.	3	71	1	2	9	4	55	De 71	Ja 34	71	53	12	6	—	118,764
10	Lumber, planing-mill products, not including planing mills connected with sawmills.	3	45	1	4	—	5	35	De 51	Ja 21	51	49	—	2	—	163,908
11	Mineral and carbonated waters.	3	13	5	1	—	—	7	Au 10	Ja 6	6	6	—	—	—	31,553
12	Printing, job.	11	24	12	1	1	1	9	(*)	(*)	10	10	—	—	—	20,668
13	Printing and publishing, newspapers and periodicals.	5	48	3	3	9	7	26	Fe 28	No 24	26	19	6	1	—	54,003
14	Slaughtering and meat packing.	5	3,640	1	59	227	63	3,290	Ja 4,154	No 811	2,862	2,786	74	2	—	35,088,970
15	Tools, not elsewhere specified.	3	15	2	1	1	1	10	(*)	(*)	10	10	—	—	—	51,896
16	All other industries*.	62	2,537	39	110	114	71	2,203	—	—	2,344	1,962	385	26	21	7,395,062

* All other industries embrace—	Boots and shoes, not including rubber boots and shoes.	1	Cars and general shop construction and repairs by steam-railroad companies.	1	Dyestuffs and extracts—natural.	1
Artificial limbs.	Boxes, set-up paper boxes.	2	Cleansing and polishing preparations.	2	Fancy articles, celluloid novelties.	1
Artificial stone products.	Boxes, wooden packing, except cigar boxes.	1	Coffins, burial cases, and undertakers' goods.	2	Food preparations, not elsewhere specified.	3
Automobile repairing.	Brass, bronze, and copper products.	3	Cutlery and edge tools.	1	Foundry and machine-shop products.	3
Bags, paper, not including bags made in paper mills.	Brushes.	1	Dyeing and finishing textiles, exclusive of that done in textile mills.	1	Furniture, wood, other than rattan and willow.	1
Bookbinding and blank-book making.	Carriages and wagons.	1	—	—	Glass, cutting, staining, and ornamenting.	1

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

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



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[illegible]

Dollars. 2,406,117	Dollars. 951,212	Dollars. 40,012,121	Dollars. 188,611	Dollars. 874,772	Dollars. 11,889,434	Dollars. 11,529,158	Dollars. 4,041,600	Dollars. 210,773,312	Dollars. 88,202,554	150,248	90,266	19,857	537	.....	89,588	27,720	1
8,751	3,738	46,292	-----	7,447	2,832	51,354	4,061	184,897	129,482	70	-----	-----	2	-----	88	-----	2
37,824	49,526	431,120	-----	24,561	33,061	1,405,422	43,905	2,409,319	959,932	257	49	-----	5	-----	203	-----	3
3,780	6,520	49,469	-----	4,475	2,827	299,123	9,490	445,075	136,462	260	-----	-----	-----	-----	280	-----	4
2,139	3,656	67,611	-----	3,458	398	77,353	1,483	199,890	120,854	37	-----	-----	-----	-----	37	-----	5
1,555,693	407,704	33,186,313	135,741	761,664	10,408,123	101,651,873	3,102,256	177,058,520	72,404,391	134,086	85,812	17,982	450	-----	29,842	26,674	6
17,683	6,976	319,299	-----	7,859	20,402	249,729	15,696	744,740	479,415	243	-----	-----	-----	-----	243	-----	7
7,645	1,488	66,176	187	4,386	2,359	180,744	4,135	296,053	111,174	666	330	-----	-----	-----	336	-----	8
10,400	1,200	29,410	1,355	50	709	15,796	1,742	90,210	72,672	88	-----	-----	-----	-----	88	-----	9
7,790	3,465	42,026	-----	600	24,663	225,488	3,220	385,355	156,647	25	-----	-----	-----	-----	25	-----	10
36,317	5,574	62,804	-----	300	28,283	1,484,832	7,754	1,890,030	397,444	110	81	-----	-----	-----	29	-----	11
582	-----	7,773	189	612	403	11,657	278	27,099	15,164	-----	-----	-----	-----	-----	-----	-----	12
8,428	6,148	54,401	880	6,094	922	64,360	3,586	207,075	139,129	85	-----	-----	-----	-----	85	-----	13
85,573	36,440	172,976	1,555	11,723	13,881	205,987	14,473	659,405	438,945	416	-----	72	-----	-----	344	-----	14
2,600	3,844	39,187	-----	2,626	1,343	468,060	6,090	573,008	98,858	107	-----	-----	-----	-----	107	-----	15
3,500	2,498	41,070	-----	1,348	106	25,689	508	83,740	80,543	38	-----	-----	-----	-----	38	-----	16
20,905	4,250	137,411	1,200	5,094	4,413	295,248	8,797	640,942	339,902	177	40	-----	-----	-----	137	13	17
597,027	408,185	5,258,783	47,474	32,555	1,294,709	11,916,448	814,236	24,875,154	12,144,480	13,583	3,964	1,876	8	-----	7,746	1,033	18

Glass, cutting, staining, and ornamenting	1	Leather goods, not elsewhere specified	1	Pickles and sauces	1	Steam fittings and steam and hot-water heating apparatus	1
Grease and tallow, not including lubricating greases	2	Liquors, malt	2	Plated ware, hollow ware	1	Tobacco, cigars	2
Hats and caps, other than felt, straw, and wool	2	Machine tools	1	Saddlery and harness	1	Tools, not elsewhere specified	1
Ice, manufactured	1	Mattresses and spring beds, not elsewhere specified	2	Screws, wood	1	Toys and games	1
Iron and steel, welding	1	Paints	2	Show cases	1		
Knit goods	1	Paper and wood pulp	1	Silk goods, including throwsters	2		
		Paper goods, not elsewhere specified	1	Slaughtering and meat packing	1		
				Stationery goods, not elsewhere specified	1		

711,029	775,527	7,021,671	112,602	102,258	679,681	86,323,750	773,591	90,558,513	12,461,172	15,293	3,698	350	90	1	11,148	208	1
1,287	868	33,491	-----	115	684	30,361	2,006	80,916	48,549	38	-----	-----	-----	-----	38	-----	2
32,508	44,524	287,063	-----	11,199	11,980	987,012	28,086	1,652,912	637,814	196	-----	-----	-----	-----	136	-----	3
-----	3,786	26,180	-----	1,160	90	44,760	567	80,764	41,427	10	-----	-----	-----	-----	10	-----	4
22,246	8,018	79,432	3,380	3,842	7,180	336,365	4,923	493,031	151,743	71	-----	-----	-----	-----	71	-----	5
-----	8,810	8,810	-----	562	260	34,271	938	52,639	17,750	9	-----	-----	-----	-----	9	-----	6
22,245	3,018	70,622	3,380	3,280	6,280	302,694	3,985	440,092	134,013	82	-----	-----	-----	-----	62	-----	7
16,194	10,498	82,585	-----	160	16,692	392,715	10,813	608,532	200,304	165	165	-----	-----	-----	-----	8	8
5,000	18,774	46,026	115	2,447	829	111,862	4,192	219,554	103,600	111	-----	-----	88	-----	73	-----	9
9,896	3,282	46,146	1,442	-----	1,090	45,005	3,854	146,462	97,603	238	225	-----	-----	-----	13	-----	10
750	-----	8,614	-----	1,525	541	35,793	853	61,291	24,645	18	-----	-----	-----	-----	18	-----	11
1,900	2,595	11,138	200	1,619	348	21,398	639	56,967	34,920	22	-----	8	-----	-----	19	-----	12
3,590	13,500	26,585	2,550	1,190	741	16,711	1,770	86,705	68,224	18	-----	-----	-----	-----	18	-----	13
211,642	425,173	4,112,738	94,761	16,734	339,448	78,168,664	449,367	84,740,246	6,122,215	6,011	2,525	350	-----	-----	3,136	200	14
1,000	2,322	11,747	-----	1,054	1,345	23,146	1,405	48,991	24,440	26	-----	-----	-----	-----	26	-----	15
406,629	247,127	2,249,937	10,244	61,213	297,813	6,109,958	259,116	11,274,862	4,905,788	8,429	783	-----	85	1	7,590	-----	16

Hand stamps.....	1	Patent and proprietary medicines.....	1	Steam fittings and steam and hot-water heating apparatus.....	1	Vinegar.....	1
Hardware.....	1	Paving materials.....	1	Suspenders, garters, and elastic woven goods.....	1	Window and door screens.....	1
Jewelry.....	1	Pickles and sauces.....	1	Taxite machinery and parts.....	1	Wood, turned and carved.....	2
Leather, tanned, curried, and finished.....	1	Pocketbooks.....	1	Theatrical scenery.....	1	Wooden goods, not elsewhere specified.....	2
Looking-glass and picture frames.....	1	Pulp goods.....	1	Tinware, not elsewhere specified.....	1		
Mirrors, framed and unframed, not elsewhere specified.....	1	Refrigerators.....	1	Tobacco, cigars.....	2		
Optical goods.....	2	Show cases.....	1	Trunks and valises.....	2		
		Stationery goods, not elsewhere specified.....	1				

\*Same number reported for one or more other months.

\* Same number reported throughout the year.



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

	401	22,421	294	986	1,365	1,347	18,420	De 21,083	Ja 15,459	21,558	15,539	5,444	258	317	Dollars. 81,448,826
1 SPRINGFIELD—All industries.															
2 Automobile bodies and parts.	6	512	1	36	14	27	434	Ja 610	No 204	446	439	6	1	.....	1,461,909
3 Automobile repairing.	17	150	13	9	19	3	109	De 121	Ja 84	121	118	1	2	.....	262,605
4 Awning, tents, and sails.	3	24	5	.....	.....	.....	16	Ja 31	Ja 8	9	5	4	.....	.....	47,090
5 Bookbinding and blank-book making.	3	54	2	2	.....	2	48	Ap 49	Ja 47	49	16	25	.....	3	37,974
6 Boxes, set-up paper boxes.	5	65	4	.....	.....	.....	60	De 72	Se 51	72	13	50	2	7	35,885
7 Brass and bronze products.	5	836	2	55	61	24	694	Ja 753	Se 653	719	658	44	14	3	2,905,806
8 Bread and other bakery products.	58	611	53	30	62	25	441	Oc 490	Fe 383	477	380	97	.....	.....	1,524,404
9 Carriages and wagons.	3	42	6	1	.....	1	34	Mh 42	Ja 28	36	36	.....	.....	.....	142,715
10 Clothing, women's.	4	74	2	3	2	1	66	My 76	Ja 5	68	3	65	.....	.....	93,322
11 Coffee, roasting and grinding.	3	8	3	.....	.....	.....	5	(*)	(*)	5	5	.....	.....	.....	37,729
12 Confectionery and ice cream.	12	515	15	19	62	50	369	De 425	Ja 273	386	144	199	3	40	1,656,356
13 Confectionery.	6	445	8	13	57	40	327	Oc 425	Ja 273	348	108	197	3	40	1,266,056
14 Ice cream.	6	70	7	6	5	10	42	Jy 59	Ja 30	38	36	2	.....	.....	390,300
15 Copper, tin, and sheet-iron work.	13	70	15	.....	1	4	50	Oc 62	My 40	62	61	.....	1	.....	109,655
16 Electrical machinery, apparatus, and supplies.	10	1,838	.....	57	173	170	1,438	De 2,205	Mh 933	2,286	1,578	688	4	16	8,924,183
17 Engraving and die-sinking.	5	7	6	.....	.....	.....	1	(*)	(*)	1	1	.....	.....	.....	2,621
18 Fancy articles, not elsewhere specified.	3	52	2	1	.....	1	48	No 70	Ja 18	63	3	60	.....	.....	64,988
19 Food preparations, not elsewhere specified.	4	17	2	4	1	.....	10	(*)	(*)	10	11	9	2	.....	34,084
20 Foundry and machine-shop products.	27	1,620	14	83	78	87	1,367	.....	.....	1,801	1,767	29	5	.....	5,575,795
21 Boiler shops and foundries.	5	242	1	8	5	5	223	Se 233	Ja 211	226	225	.....	1	.....	444,115
22 Machine shops.	22	1,387	13	75	73	82	1,144	De 1,572	Ja 845	1,575	1,542	29	4	.....	5,131,680
23 Hand stamps.	4	67	4	7	3	.....	53	Oc 59	Ja 48	58	28	21	3	6	68,671
24 Leather goods, not elsewhere specified.	3	50	2	3	3	0	36	Au 44	Fe 27	34	8	21	2	3	104,001
25 Mattresses and spring beds, not elsewhere specified.	3	27	3	.....	1	1	22	Oc 25	Ja 20	20	17	3	.....	.....	95,835
26 Mineral and carbonated waters.	6	52	4	7	2	4	35	Jy 51	Ja 23	31	29	2	.....	.....	168,575
27 Models and patterns, not including paper patterns.	6	55	7	.....	.....	2	46	De 62	Ja 26	62	61	1	.....	.....	72,807
28 Paper goods, not elsewhere specified.	5	93	6	8	6	11	82	De 84	Ap 44	80	74	6	.....	.....	627,637
29 Printing and publishing, book and job.	39	583	30	52	37	86	378	.....	.....	394	244	129	14	7	1,743,714
30 Job printing.	32	464	27	34	7	20	376	My 389	Se 366	392	242	129	14	7	1,098,570
31 All other.	7	119	3	18	30	66	2	(*)	(*)	2	2	.....	.....	.....	645,144
32 Printing and publishing, newspapers and periodicals.	11	770	5	31	174	194	366	Ap 398	No 335	387	325	45	17	.....	2,394,818
33 Saws.	4	257	2	20	47	14	174	De 234	Mh 139	234	153	80	.....	1	1,577,511
34 Stationary goods, not elsewhere specified.	4	630	.....	24	19	29	558	Se 627	Fe 471	580	175	383	5	17	1,679,749
35 Tobacco, cigars.	14	391	19	4	.....	.....	368	Oc 423	My 307	434	282	151	1	.....	546,998
36 Tools, not elsewhere specified.	8	415	5	32	4	11	363	De 384	Mh 353	384	372	8	4	.....	734,790
37 All other industries.*	114	12,521	62	498	506	587	10,778	.....	.....	12,248	8,535	3,324	175	214	48,716,219

\*All other industries embrace—

Artificial limbs.	1	Carpets, rag.	2	Cotton small wares.	1	Gas fixtures.	1
Belt, leather.	2	Cars and general shop construction and repairs by steam-railroad companies.	1	Druggists' preparations.	2	Gas, illuminating and heating.	1
Boxes, wooden packing, except cigar boxes.	1	Cash registers and parts.	1	Dyestuffs and extracts—natural.	1	Glass, decalcomania work.	1
Brick, building.	1	Chemicals.	3	Electroplating.	2	Gold, leaf and foil.	1
Brooms, from broom corn.	1	Chocolate and cocoa products.	1	Emery and other abrasive wheels.	1	Hats and caps, other than felt, straw, and wool.	2
Brushes.	2	Cleansing and polishing preparations.	1	Envelopes.	3	House-furnishing goods, mops and dusters.	1
Card cutting and designing.	2	Clothing, men's.	3	Flavoring extracts.	3	Iron and steel, forgings, not made in steel works or rolling mills.	2
Cardboard, not made in paper mills.	1	Corsets.	1	Flour-mill and gristmill products.	2		
Carpets and rugs, other than rag.	1	Cotton goods.	4	Fur goods.	2		
				Furniture.	2		

	618	45,825	446	1,779	2,656	2,271	38,673	De 43,436	Jy 36,094	44,831	34,345	9,290	639	557	182,501,999
1 WORCESTER—All industries.															
2 Automobile repairing.	5	54	3	3	3	3	42	Ap 46	My 36	44	43	.....	1	.....	194,324
3 Bookbinding and blank-book making.	4	68	5	1	1	2	59	Au 64	Ja 46	65	24	34	5	2	84,656
4 Boot and shoe cut stock.	3	57	3	5	2	3	44	Oc 48	Mh 35	46	38	7	1	.....	159,807
5 Boots and shoes, not including rubber boots and shoes.	11	1,492	8	57	47	63	1,317	No 1,602	Ja 841	1,570	680	804	46	40	4,019,589
6 Brass and bronze products.	4	31	2	6	.....	.....	23	Ap 51	My 10	22	22	.....	.....	.....	103,025
7 Bread and other bakery products.	51	504	52	20	36	28	368	Oc 382	Ap 359	392	277	87	7	21	746,824
8 Brushes.	3	54	1	7	2	3	41	Au 44	Oc 38	43	20	18	5	.....	68,834
9 Carriages and wagons, including repairs.	3	44	.....	4	1	4	35	My 42	No 29	33	31	1	1	.....	112,967
10 Clothing, men's.	13	223	20	10	15	4	174	.....	.....	202	94	102	1	5	845,970
11 Men's and youths'.	10	204	18	9	13	4	160	No 186	Ja 76	183	91	86	1	5	817,233
12 All other.	3	19	2	1	2	.....	14	De 19	Ja 10	19	3	16	.....	.....	28,737
13 Clothing, women's.	21	651	35	19	32	20	545	.....	.....	588	87	483	1	17	1,212,986
14 Suits, skirts, and cloaks.	4	57	12	1	.....	3	41	Ap 62	Jy 17	42	26	16	.....	.....	221,559
15 Shirt waists and dresses, except house dresses.	8	280	13	6	17	8	216	Oc 241	Ja 141	209	30	165	1	13	335,662
16 All other.	9	334	10	12	15	9	288	Je 346	Fe 211	337	31	302	.....	4	655,765
17 Confectionery and ice cream.	12	92	15	5	6	7	59	.....	.....	57	40	14	1	2	186,581
18 Confectionery.	3	17	4	.....	.....	.....	13	Mh 15	Ap 10	14	3	8	1	2	12,817
19 Ice cream.	9	75	11	5	6	7	46	Jy 61	Ja 34	43	37	6	.....	.....	173,764

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

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



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

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

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

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	31,624	6,710	3,470	130	2,855	18,459	4,695	1
3,577,684	3,290,526	19,790,084	622,536	487,267	3,713,795	45,949,502	1,853,078	98,332,955	50,529,775										
99,981	49,817	556,426	8,016	11,932	19,257	326,029	19,143	1,759,735	1,414,563	127							127		2
28,640	27,943	131,041	2,032	24,808	13,894	125,488	7,962	418,710	285,260	110							110		3
	2,975	13,786		2,256	214	24,287	441	67,212	42,484	11							11		4
7,550	1,600	35,833		3,228	1,485	21,449	580	80,071	58,042	11							11		5
	936	35,980		3,298	369	32,988	486	84,245	50,771	16							16		6
165,902	133,546	905,710		5,840	414,165	1,241,069	52,370	3,467,771	2,174,332	2,260	500						1,700		7
65,909	124,583	480,505		35,437	19,023	2,834,454	63,899	4,347,014	1,448,061	772							772		8
2,190	780	35,847		824	1,938	31,618	1,936	92,008	58,454	50							50		9
11,200	2,424	50,213	3,264	4,154	2,800	90,990	310	193,409	102,100	11							11		10
		5,810		2,040	584	117,826	904	142,613	23,883	13							13		11
59,174	133,163	257,307		8,169	131,920	1,037,011	29,178	2,648,450	982,261	501	175						326	249	12
49,254	113,263	214,207		5,524	127,166	1,270,176	18,736	2,162,570	873,658	329	175						154	249	13
9,920	19,890	43,010		2,645	4,754	366,835	10,442	485,880	108,603	172							172		14
	2,864	57,410	209	6,188	2,027	101,807	1,126	223,830	120,897	18							18		15
209,612	366,235	1,674,340		14,068	144,068	2,350,557	40,503	7,276,769	4,885,709	1,219							1,219		16
		541		796	17	495	65	14,244	13,684	1							1		17
1,200	850	28,963		2,761	129	36,325	210	106,852	70,317	1							1		18
																			19
8,441	559	10,000		2,945	214	58,938	1,069	79,288	19,281	25							25		20
339,348	136,230	1,038,288	9,237	22,351	291,704	1,660,491	72,361	6,628,191	4,895,339	2,134	440						1,623	60	21
37,419	13,051	278,384		1,125	12,837	269,760	23,941	687,267	393,566	166	85						81	60	22
301,929	123,179	1,059,904	9,237	21,226	278,867	1,390,731	48,420	5,940,924	4,501,773	1,968	365						1,542		23
8,189	6,704	20,762	960	3,077	978	34,025	1,040	97,335	62,270	11							11		24
5,154	12,839	24,095	74	2,630	533	118,951	239	187,312	68,122	7							7		25
	3,881	19,793		441	1,268	74,580	798	120,246	44,868	43							43		26
																			27
11,460	14,795	31,150		5,992	11,196	104,016	2,289	185,355	79,050	67							67		28
	682	87,226		2,732	392	14,590	1,593	123,651	107,468	71							71		29
22,242	19,290	71,045	26,361	19,720	18,209	417,426	17,491	761,341	326,424	403	400						3		30
124,174	117,285	335,335	488,084	31,337	07,062	656,198	14,644	2,288,133	1,617,291	445	225						220	79	31
59,217	39,075	381,735	12,896	25,235	15,603	535,963	14,359	1,234,981	694,669	444	225						210	79	32
64,957	78,210	3,600	475,188	6,102	51,459	120,235	285	1,053,152	932,632	1							1		33
146,438	312,886	508,028	15,867	40,588	25,559	774,433	65,298	2,297,506	1,457,775	1,200	775						426	414	34
																			35
97,299	118,430	196,488	21,001	900	23,564	676,301	18,235	1,349,950	655,414	275							275		36
76,239	72,971	413,131		40,000	40,893	1,191,825	17,146	2,354,492	1,145,525	402	175						227	75	37
																			38
6,189		408,993		6,740	152,509	541,476	1,282	1,250,392	707,624	38							38		39
110,140	23,555	368,426		8,842	61,928	220,926	27,760	927,518	678,832	608							608		40
1,971,043	1,602,713	11,105,612	47,941	164,603	2,265,898	30,432,933	1,393,311	58,759,318	26,933,074	20,774	4,020	3,470					10,474	3,768	41

Iron and steel, welding.....	2	Musical instruments, organs.....	1	Saddlery and harness.....	1	Steam fittings and steam and hot-	1
Knit goods.....	2	Optical goods.....	1	Sand-lime brick.....	1	water heating apparatus.....	2
Lithographing.....	3	Paints.....	1	Screws, machine.....	2	Stereotyping and electrotyping.....	1
Looking-glass and picture frames....	1	Patent and proprietary medicines....	2	Shipbuilding, wooden, masts, spars,	1	Structural ironwork, not made in	1
Lumber, planing-mill products, not		Photographic materials.....	4	oars, and rigging.....	1	steel works or rolling mills.....	1
including planing mills connected		Photo-engraving.....	4	Signs and advertising novelties.....	2	Toys and games.....	2
with sawmills.....	2	Plumbers' supplies, not elsewhere	2	Slaughtering and meat packing.....	2	Type founding.....	2
Machine tools.....	2	specified.....	1	Soap.....	2	Waste.....	2
Motorcycles, bicycles, and parts.....	2	Pocketbooks.....	2	Sporting and athletic goods.....	2	Wirework, not elsewhere specified..	2
Musical instruments and materials,	1	Regalia, and society badges and em-	1	Stamped ware, not elsewhere speci-	2	Wooden goods, not elsewhere speci-	1
not elsewhere specified.....		blems.....		fied.....		fied.....	

7,108,284	5,766,705	44,439,967	490,776	817,485	7,935,619	101,205,207	4,975,795	208,705,773	102,524,771	94,712	37,080	4,592	727	129	52,184	18,061	1
5,440	5,844	45,099		2,424	8,244	53,693	4,783	150,033	97,557	40					40		2
1,780	3,572	39,342		5,806	17,789	77,426	37	95,978	77,763	37					37		3
30,817	4,522	35,814		2,506	1,111	319,865	840	430,572	109,867	16					16		4
220,225	224,394	1,174,550	12,777	32,319	113,899	4,315,455	25,581	7,396,821	3,055,785	603	110				493		5
																	6
10,900		38,201	2,500		1,145	113,464	7,345	101,799	70,980	25					25		7
68,269	103,109	385,801		24,855	30,839	1,872,261	48,049	2,805,707	945,397	388	125				263		8
18,440	6,007	30,061	1,901	8,203	1,227	76,326	686	148,722	71,710	17					17		9
9,877	3,035	45,530		5,500	2,700	83,606	1,819	171,118	85,698	66					66		10
																	11
26,091	31,274	187,748	47,963	6,907	5,505	712,787	4,311	1,238,117	521,019	92	55				37		12
24,696	29,253	175,733	47,963	5,275	6,239	657,560	4,106	1,158,142	497,476	87	55				32		13
1,395	2,016	12,015		1,632	266	55,227	205	78,975	23,543	5					5		14
59,714	90,842	391,547	7,236	30,236	8,584	1,683,482	10,158	2,701,668	1,008,028	224	150				74		15
3,840	2,716	42,702	6,036	794	817,239	2,410	447,193	127,644	127,644	12					12		16
20,452	44,782	157,819	1,200	7,028	1,878	554,621	1,954	979,717	423,142	28					28		17
																	18
35,422	43,344	191,026		20,611	5,912	811,622	5,794	1,274,758	457,342	184	150				34		19
9,715	19,100	66,980		13,961	1,066	438,596	5,800	695,346	250,950	132					132		20
		8,885		1,965	93	24,630	780	50,376	24,966	1					1		21
9,715	19,100	58,095		11,996	968	413,966	5,020	644,970	225,984	131					131		22

\* Same number reported for one or more other months.

\* Same number reported throughout the year.



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

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

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

WORCESTER—Continued.																		Dollars.
1	Copper, tin, and sheet-iron work.....	8	65	7	5	1	6	46	My	51	No	42	48	48	1,033	7	101	174,679
2	Corsets.....	7	1,387	23	77	59	1,228	Oc	1,305	My	1,155	1,286	145	145	418	18	18	3,329,845
3	Cotton goods.....	5	557	33	24	14	436	Ja	649	Ap	322	591	155	10	45	22	147,424	
4	Cotton small wares.....	3	72	2	5		65	Oc	77	Ja	53	77	10	45	22			4,001,454
5	Cutlery and edge tools.....	6	538	2	14	21	434	Jy	521	No	439	499	398	74	13	14		147,424
6	Dyeing and finishing textiles, exclusive of that done in textile mills.	3	220	1	6	3	206	Oc	214	Ja	195	210	175	85				616,217
7	Electrical machinery, apparatus, and supplies.....	10	770	5	26	17	685	De	933	Ja	401	933	567	341	23	2		670,583
8	Electroplating.....	8	146	4	17	6	115	No	152	Fe	77	125	119	3	3			1,464,805
9	Engraving and diesinking.....	3	6	3			3	(4)	3	(4)	3	4	3		1			150,860
10	Envelopes.....	7	1,420	33	46	74	1,267	De	1,397	Au	1,199	1,397	439	951	2	5		500
11	Flavoring extracts.....	3	8	4	1	1	2	(4)	2	(4)	2	2	1	1				3,945,261
12	Food preparations, not elsewhere specified.....	7	13	7			6					6	6					10,806
13	Breadstuffs, cereals, and breakfast food.....	3	6	3			3	(4)	3	(4)	3	3	3					18,620
14	All other.....	4	7	4			3	(4)	3	(4)	3	3	3					5,080
15	Foundry and machine-shop products.	48	3,245	27	155	122	2,772	De	2,377	Au	2,046	3,235	3,119	78	36	2		13,540
16	Machine shops.....	38	2,555	20	118	107	2,156	De	2,377	Au	2,046	2,573	2,266	78	32	2		11,829,248
17	All other.....	10	690	7	37	15	616	De	822	Je	353	857	853		4			10,013,252
18	Furniture.....	4	47	3	6		35	Mh	43	Fe	28	39	36	1	2			1,815,996
19	Hats and caps, other than felt, straw, and wool.....	3	11	3			8	Se	14	Ja	5	13	7	6				52,064
20	Jewelry.....	4	50	4	2	5	39	Oc	44	Je	35	44	28	4	10	2		19,197
21	Leather goods, not elsewhere specified.	4	79	5	3	8	62	De	69	Ja	52	69	34	28	5	2		33,809
22	Lumber, planing-mill products, not including planing mills connected with sawmills.	8	199	5	8	8	173	De	197	Ap	151	197	193		4			120,334
23	Machine tools.....	15	2,878	9	109	175	2,433	De	2,766	Jy	2,266	2,766	2,679	79	8			585,469
24	Marble and stone work.....	8	27	9		1	17	My	23	Ja	10	18	18					12,242,331
25	Mineral and carbonated waters.....	7	42	8	2	2	22	Je	62	De	8	25	28					62,905
26	Models and patterns, not including paper patterns.	7	60	11	4	2	43	De	58	Ja	28	61	59		2			76,504
27	Motorcycles, bicycles, and parts....	4	170	3	5	4	151	Fe	201	Au	104	139	97	27	12	3		44,347
28	Musical instruments, piano and organ materials.	5	752	1	17	6	712	No	837	Ja	529	834	572	242	17	3		411,897
29	Printing, job, linotype work and typesetting.....	33	263	37	15	8	186	No	209	My	175	206	157	34	15			1,281,510
30	Printing and publishing, newspapers and periodicals.	19	654	5	33	101	464					479	417	46	16			355,500
31	Printing and publishing.....	3	528	18	81	35	394	Oc	406	Ja	377	402	359	34	9			1,414,774
32	Printing, publishing, and job printing.	7	103	3	14	8	70	De	77	Au	65	77	58	12	7			1,187,715
33	Publishing without printing.....	9	18	2	1	12	3											225,599
34	Sausage, not made in slaughtering and meat-packing establishments.	4	46	3	3	13	26	My	31	No	18	21	21					1,460
35	Screws, machine.....	6	302	19	5	15	263	Fe	311	Oc	151	326	242	64	18	2		114,789
36	Stamped ware, not elsewhere specified.	9	459	3	35	12	395	De	465	Je	348	465	417	32	14	2		1,043,797
37	Structural ironwork, not made in steel works or rolling mills.	6	251	3	15	9	217	Au	293	Ap	169	250	250					1,127,217
38	Textile machinery and parts.....	20	3,689	10	99	423	2,851	No	3,213	Fe	2,412	3,181	3,042	107	32			845,109
39	Tobacco, cigars.....	9	77	10	1	51	66	No	104	Ap	30	102	76	26				12,240,644
40	Tools, not elsewhere specified.....	17	711	11	45	53	546	Ja	198	My	114	626	568	41	17			90,877
41	Machinists' tools.....	7	174	4	11	3	149	Ja	198	My	114	172	163	2	7			1,726,606
42	All other.....	10	537	7	34	55	367	De	454	My	365	454	405	39	10			378,533
43	Wirework, not elsewhere specified.....	6	679	1	20	60	552	Ja	616	Jy	503	614	351	225	25	13		1,848,078
44	Wood, turned and carved.....	5	61	5		1	53	No	67	Fe	49	51	39		12			1,303,039
45	Wooden goods, not elsewhere specified.	4	23	1	6		15	Ap	19	De	13	13	11		2			49,206
46	Woolen goods.....	8	776	5	31	2	730	De	846	Fe	449	846	530	304	3	9		24,897
47	Worsted goods.....	5	795	4	17	3	757	De	857	Mh	601	857	828	443	22	64		3,351,346
48	All other industries*.....	160	21,027	81	824	1,295	17,784					21,111	17,604	3,052	249	206		3,319,971
																		106,464,495

\*All other industries embrace—

1	Agricultural implements.....	1
1	Aluminum manufactures.....	1
1	Ammunition.....	1
1	Artificial limbs.....	1
1	Artificial stone products.....	1
1	Asbestos textile-mill products, not including steam packing.....	1
1	Automobile bodies and parts.....	1
1	Awnings, tents, and sails.....	1
1	Bags, other than paper, not including bags made in textile mills.....	2
2	Belted leather.....	2
1	Billiard tables, bowling alleys, and accessories.....	1
1	Blacking, stains, and dressings.....	1
2	Boot and shoe findings.....	2
1	Boxes, cigar.....	1
1	Boxes, paper cartons.....	1
1	Boxes, wooden packing, except cigar boxes.....	1
1	Carpets and rugs, other than rag.....	1
1	Carriage and wagon materials.....	1
1	Cars and general shop construction and repairs by electric-railroad companies.....	1
1	Cars and general shop construction and repairs by steam-railroad companies.....	1
1	Chemicals.....	1
1	Cleansing preparations.....	1
1	Cloth, sponging and refinishing.....	1
1	Coffee, roasting and grinding.....	1

1	Coffins, burial cases, and undertakers' goods.....	1
1	Combs and hairpins, not made from metal or rubber.....	1
3	Dental goods.....	3
1	Druggists' preparations.....	1
1	Emery and other abrasive wheels.....	1
1	Enameling.....	1
1	Engines, steam, gas, and water.....	1
1	Engraving, steel and copper plate, including plate printing.....	2
1	Fancy articles, paper novelties.....	1
1	Files.....	1
1	Firearms.....	1
1	Flour-mill and gristmill products.....	1
1	Furnishing goods, men's.....	1

1	Gas and electric fixtures.....	1
1	Gas and water meters.....	1
1	Gas, illuminating and heating.....	1
1	Glass, cutting, staining, and ornamenting.....	1
1	Hand stamps.....	1
2	Hardware.....	2
1	House-furnishing goods, mops and dusters.....	1
1	Ice, manufactured.....	1
1	Iron and steel, steel works and rolling mills.....	1
1	Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.....	1
1	Iron and steel, forgings, not made in steel works or rolling mills.....	5

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

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



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[illegible][illegible]

	Stencils and brands.....	2
1	Stereotyping and electrotyping.....	1
1	Surgical appliances.....	1
1	Suspenders, garters, and elastic	
2	woven goods.....	4
1	Tobacco, smoking.....	2
1	Toys and games.....	2
1	Trunks and valises.....	1
2	Umbrellas and canes.....	1
4	Vinegar and older.....	1
1	Wall paper, not made in paper mills.....	1
	Window and door screens.....	1
2	Window shades and fixtures.....	6
1	Wire.....	1
	Wool shoddy.....	1

<sup>4</sup> Same number reported throughout the year.



## MANUFACTURES—MASSACHUSETTS.

TABLE 40.—DETAILED STATEMENT OF ALL INDUSTRIES

INDUSTRY AND CITY.		Number of establishments	PERSONS ENGAGED IN THE INDUSTRY.										WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.					
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.				
									Maximum month.	Minimum month.									
1	ADAMS.....	32	4,114	28	43	31	38	3,974	De 4,185	Au 3,524	4,199	2,558	1,448	105	88	Dollars: 11,268,709			
2	AMESBURY.....	44	3,457	38	97	40	109	3,173	De 3,565	Ap 2,710	3,683	3,154	492	27	10	8,747,338			
3	ARLINGTON.....	27	294	20	24	7	15	228	De 240	Ja 208	262	236	24	2	.....	1,502,207			
4	ATTLEBORO.....	144	7,748	160	300	235	290	6,763	De 7,719	Ja 5,842	7,589	5,434	1,843	166	146	22,632,192			
5	BELMONT.....	6	108	4	4	3	4	93	De 106	Fe 52	106	92	13	1	.....	200,282			
6	BEVERLY.....	70	7,824	63	359	364	343	6,495	De 7,766	Mh 5,615	7,770	6,470	1,195	75	30	18,064,021			
7	BRAINTREE.....	19	2,392	10	32	71	103	2,176	De 2,386	Ap 2,017	2,386	1,505	697	112	72	6,601,205			
8	BROOKLINE.....	32	593	24	37	15	33	484	Ja 322	Je 360	494	267	197	6	24	1,514,915			
9	CHELSEA.....	123	7,870	107	342	466	375	6,580	Au 6,919	My 6,249	6,945	4,906	1,776	128	136	25,618,973			
10	CHICOPEE.....	60	12,665	37	405	1,420	735	10,068	De 11,043	Je 9,634	12,126	9,424	2,384	154	164	69,411,199			
11	CLINTON.....	33	4,394	28	63	68	80	4,155	De 4,441	Fe 3,847	4,439	2,499	1,597	169	174	15,916,555			
12	DANVERS.....	25	1,653	15	62	42	60	1,527	Fe 1,615	My 1,430	1,527	1,003	450	28	40	6,035,247			
13	DEDHAM.....	20	524	17	26	8	10	463	Au 542	Ja 372	535	304	185	22	24	1,278,193			
14	EASTHAMPTON.....	28	4,299	20	48	49	40	4,142	De 4,359	Ja 3,918	4,380	2,556	1,600	123	101	18,489,006			
15	EVERETT.....	104	5,437	58	304	301	251	4,523	De 4,961	My 4,147	4,959	4,154	658	85	62	65,718,095			
16	FITCHBURG.....	121	10,948	82	341	307	311	9,907	De 10,534	My 9,409	10,563	7,060	3,045	223	235	51,820,392			
17	FRAMINGHAM.....	59	5,191	43	204	189	393	4,362	De 5,557	Ja 3,549	5,557	3,560	1,867	61	69	13,908,197			
18	GARDNER.....	73	4,525	48	182	140	119	4,036	De 4,723	Ap 3,638	4,728	3,557	851	149	71	20,063,351			
19	GLOUCESTER.....	90	3,042	61	107	73	117	2,684	De 3,023	Ap 2,531	2,986	2,163	766	18	39	11,635,710			
20	GREENFIELD.....	53	8,337	38	107	204	238	2,750	De 3,125	Jy 2,569	3,165	2,620	510	23	12	13,932,977			
21	LEOMINSTER.....	92	6,343	64	220	107	159	5,793	De 6,480	Ja 5,307	6,533	4,084	2,232	129	88	13,515,034			
22	MALDEN.....	108	5,689	94	260	341	271	4,723	De 5,169	Je 4,338	5,154	2,909	2,006	65	114	24,669,731			
23	MARLBOROUGH.....	48	4,116	40	89	56	133	3,798	De 4,037	Ap 3,466	4,054	2,553	1,844	90	67	7,972,139			
24	MEDFORD.....	54	1,259	34	92	51	51	1,031	De 1,260	Ja 922	1,260	827	394	14	25	4,771,891			
25	MELROSE.....	27	1,938	19	42	180	91	1,606	Ja 1,787	Jy 1,459	1,726	765	905	12	44	7,062,676			
26	METHUEN.....	33	2,687	27	41	16	32	2,671	De 2,830	Fe 2,149	2,696	999	1,472	111	114	13,135,692			
27	MILFORD.....	48	2,006	48	71	36	42	1,809	De 2,132	My 1,671	2,135	1,395	654	49	37	3,897,336			
28	NATICK.....	49	1,686	56	67	58	42	1,463	De 1,690	Ja 1,196	1,779	1,343	420	12	4	6,712,228			
29	NEWBURYPORT.....	64	4,410	50	138	118	144	3,960	Ap 4,044	Au 3,842	4,325	2,652	1,661	46	66	13,554,071			
30	NEWTON.....	49	2,866	31	65	108	115	2,547	De 2,777	Mh 2,319	2,769	1,842	857	41	29	10,456,233			
31	NORTH ADAMS.....	65	6,630	53	184	181	189	6,023	De 6,499	My 5,451	6,459	4,217	1,092	141	109	25,331,703			
32	NORTHAMPTON.....	63	3,870	44	104	85	105	3,532	De 3,797	Ja 3,274	3,893	2,330	1,346	123	94	13,039,947			
33	NORTHBRIDGE.....	13	4,033	13	45	71	33	3,871	De 4,259	Mh 3,603	4,263	3,519	578	97	69	14,535,902			
34	NORWOOD.....	26	3,286	19	140	139	153	2,835	De 3,159	Ja 2,512	3,142	2,441	652	32	17	13,620,100			
35	PEABODY.....	91	8,676	67	280	146	170	8,013	De 8,801	Ja 7,303	8,781	7,853	852	54	22	32,788,949			
36	PITTSFIELD.....	90	10,733	76	470	868	749	8,570	De 10,258	Ja 6,756	10,313	7,471	2,622	77	143	35,847,896			
37	PLYMOUTH.....	31	3,232	18	72	82	89	2,971	De 3,225	Ja 2,515	3,225	2,446	751	18	10	28,525,538			
38	QUINCY.....	162	21,276	188	257	743	435	19,653	Mh 22,979	De 12,666	12,677	12,087	571	8	11	30,466,341			
39	REVERE.....	31	181	132	12	5	6	126	De 161	Ap 89	167	143	23	1	.....	815,301			
40	SALEM.....	153	6,352	124	269	99	188	5,672	De 6,523	My 4,894	6,530	3,956	2,343	114	117	21,198,391			
41	SAUGUS.....	14	150	14	5	1	4	126	No 193	Ap 66	166	152	0	3	2	654,325			
42	SOUTHBRIDGE.....	41	6,034	33	240	197	235	5,329	De 5,675	Mh 4,935	5,076	3,221	2,183	150	122	15,790,252			
43	TAUNTON.....	167	9,946	114	316	282	253	8,981	No 9,385	Mh 8,521	9,715	6,808	2,540	104	173	31,649,631			
44	WAKEFIELD.....	32	2,034	19	70	31	45	1,869	De 2,126	Ap 1,666	2,102	1,313	753	16	20	7,640,582			
45	WALTHAM.....	93	8,669	75	228	104	193	8,069	De 8,909	Mh 7,430	8,907	5,716	3,076	76	39	26,388,296			
46	WATERTOWN.....	25	9,926	16	270	581	639	8,420	De 9,439	Je 7,720	9,439	5,962	3,299	117	61	24,428,115			
47	WEBSTER.....	24	4,149	15	61	117	107	3,849	Oc 4,345	Mh 3,286	4,128	2,653	1,112	189	174	13,548,824			
48	WESTFIELD.....	85	3,890	77	147	253	170	3,243	De 3,701	Je 2,913	3,709	2,878	727	48	56	12,449,307			
49	WEST SPRINGFIELD.....	23	3,358	17	116	292	142	2,791	De 3,171	Fe 2,426	3,174	2,825	341	5	3	9,073,174			
50	WYOMOUTH.....	34	2,462	22	86	92	116	2,146	Au 2,298	Ja 1,977	2,333	1,531	673	70	59	13,624,739			
51	WINCHESTER.....	17	1,233	9	65	16	31	1,112	De 1,198	Fe 1,009	1,236	1,096	135	5	.....	4,327,380			
52	WINTHROP.....	19	91	19	7	1	3	61	Au 64	Ja 59	64	31	33	.....	.....	164,057			
53	WOBURN.....	53	2,264	36	91	77	49	2,011	De 2,323	Ap 1,688	2,341	2,005	311	16	9	10,170,398			

<sup>1</sup> Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).

<sup>2</sup> Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).



## COMBINED AND SPECIFIED INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.					
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				Primary horsepower.					Electric horsepower generated in establishments reporting.
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.			Rent- ed. <sup>2</sup>	
										Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. <sup>1</sup>		

## CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED.

Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.										
225,262	85,029	3,524,404	49	1,989	551,619	7,601,918	537,566	15,076,858	6,937,344	14,120	9,634			1,150	3,836	287	1		
443,364	160,243	3,847,306	2,402	40,840	270,082	9,196,167	220,801	10,309,509	6,892,541	4,003	510	234			3,259	584	2		
43,204	22,443	237,535	332	10,232	25,644	816,955	105,665	1,006,207	583,587	849	100	35			132	177	3		
990,729	788,490	7,262,751	212,409	183,193	680,268	18,187,672	382,068	34,471,677	15,901,897	7,789	3,256	55			587	3,861	4		
9,267	5,949	101,742	1,784	14,292	3,901	164,526	43,672	374,586	160,388	162	150				12		5		
866,181	650,929	8,419,302	127,962	82,069	252,964	8,451,574	280,814	21,829,684	13,091,296	5,190	704	3,358			1,128	3,044	6		
189,903	206,168	2,370,715	279	18,590	149,419	7,006,523	142,802	11,974,839	4,825,514	3,189	2,393	77			507	125	7		
101,245	36,262	484,458	28,040	45,101	30,658	1,017,797	24,155	2,243,811	1,201,359	203					193		8		
1,175,106	1,089,650	6,924,440	302,716	91,428	1,049,553	10,160,122	543,062	32,536,518	15,883,384	13,797	4,145	1,900	380		7,372	2,401	9		
1,282,777	3,376,175	12,592,063	2,132	14,597	2,443,943	45,588,182	870,189	89,772,534	43,314,163	30,523	4,372	2,435	49		3,407	20,260	10		
339,172	302,180	4,088,169	7,311	11,857	676,156	7,753,714	515,380	15,179,819	6,909,775	13,921	8,065	40	25		40	5,751	4,365	11	
280,423	128,170	1,583,406	10,481	8,089	562,066	7,506,074	181,713	11,541,839	3,874,052	3,306	2,718				100	438	12		
103,627	10,827	418,921	4,011	3,085	15,991	749,337	67,431	1,787,673	923,905	2,033		700			350	308	13		
401,272	152,301	3,979,183	1,492	3,226	1,595,168	26,698,455	845,453	37,942,121	10,998,213	10,571	795	2,947	4		160	15,665	75	14	
1,084,902	764,922	4,635,071	14,300	80,249	1,599,957	13,363,997	5,995,084	36,775,728	10,710,647	17,409	10,891	1,891	133		4,494	3,773	15		
1,405,965	712,317	10,520,346	82,201	71,242	2,033,283	34,363,471	1,691,442	58,164,842	22,109,929	45,988	19,346	3,070			3,864	19,708	16		
680,751	420,407	4,137,769	102,208	38,738	455,458	10,016,850	332,961	18,842,173	8,492,362	6,940	3,893	33	50		400	2,303	17		
634,736	269,728	3,935,802	8,160	20,996	579,108	4,944,340	241,859	13,569,682	8,413,483	6,195	3,300	134			444	2,418	18		
431,813	183,367	2,614,243	14,174	28,224	272,026	12,441,876	287,174	18,803,673	6,094,623	2,943	982	70	128		1,763	263	19		
325,952	439,604	3,110,387	1,210	17,494	414,962	2,620,327	210,722	9,481,352	6,641,333	4,914	205	50			120	4,539	28	20	
369,073	339,482	5,518,716	45,111	25,879	607,402	13,489,006	354,608	24,928,790	11,085,176	7,696	2,756	705	107		842	3,286	21		
693,916	797,734	4,276,476	5,923	54,191	1,145,192	8,856,191	789,784	22,077,624	12,432,649	7,425	3,711	652	15		3,047	3,778	22		
258,402	172,397	4,033,597	349	11,690	158,243	13,061,734	93,504	19,044,907	5,889,669	1,767	820	40	5		902		23		
356,421	107,153	981,262	9,160	27,066	267,077	3,098,710	90,346	5,665,723	2,476,661	2,139	1,025		8		1,100	282	24		
185,089	316,917	1,326,981	8,451	16,106	132,146	3,019,219	67,618	6,083,098	3,006,861	1,777	1,340				437	69	25		
148,952	43,307	2,405,198	8,123	3,392	717,696	8,737,043	337,151	14,214,905	5,140,711	10,625	1,180		17		805	8,623	26		
242,431	85,776	1,819,133	18,219	12,569	193,003	4,748,457	97,581	8,408,531	3,562,493	2,020	714		5		25	1,276	1		
159,254	107,719	1,382,200	12,750	24,911	43,511	4,875,142	77,447	7,393,397	2,440,808	2,178	960	135	34		250	799	27		
503,866	443,842	3,011,411	14,170	24,201	271,971	12,411,372	268,232	20,696,015	7,915,411	6,417	1,558		22		4,837	195	29		
349,021	364,757	2,612,738	70,752	21,809	334,946	8,258,416	170,053	15,524,567	7,096,098	5,536	3,597	580	152		595	632	30		
812,237	499,428	5,630,773	80,439	23,113	1,831,840	21,555,999	729,823	36,203,767	13,917,945	14,049	8,014		2		2,368	3,665	31		
420,423	217,439	3,305,685	173,827	20,997	1,264,578	9,022,601	327,949	17,060,620	8,010,010	6,687	2,068		635		1,609	2,375	32		
353,351	171,906	4,398,961	25	3,270	621,732	5,049,626	195,298	13,848,897	8,003,973	7,418	5,467		2		1,376	573	33		
488,060	452,966	3,276,834	119,234	119,234	527,333	10,422,213	337,522	20,359,242	9,599,507	5,610	2,305	500	30		2,675	1,772	34		
1,012,647	511,443	10,233,573	1,030,648	147,445	1,089,524	30,110,294	1,205,514	52,906,722	21,590,914	10,134	8,551	4,829			5,754	9,126	35		
1,651,572	2,122,111	10,200,381	51,004	49,091	1,941,790	18,854,078	864,178	41,613,356	21,895,100	18,945	2,795	10,968	13		1,363	3,806	36		
348,830	250,510	3,005,306	251,464	6,807	2,856,435	21,157,903	339,250	31,319,553	9,822,400	10,872	5,386	3,667	14		155	1,650	37		
1,389,375	1,586,004	34,830,105	140,768	24,156	1,336,911	23,127,027	1,047,749	68,535,406	44,360,630	19,348	3,665	283	543		14,857	972	38		
30,819	14,170	155,387	1,149	12,466	8,020	403,147	45,954	767,294	318,193	738	450		10		100	178	39		
810,147	359,819	5,904,208	128,531	121,788	916,384	10,298,910	628,583	30,437,957	13,510,464	13,504	2,336	275	35		10,858	201	40		
13,600	2,910	118,818		2,224	23,667	844,908	20,705	1,157,215	291,602	539	100				439		41		
838,098	472,671	4,605,466	46,283	5,492	288,422	7,148,678	333,495	18,252,814	10,770,641	9,132	775	5,521			1,721	1,115	42		
1,231,117	914,515	9,013,250	177,033	122,118	1,421,175	26,603,312	1,183,253	48,330,638	20,544,073	25,340	15,639	1,865	8		935	6,893	43		
862,857	150,393	1,921,061	19,653	11,160	123,564	5,464,209	117,519	8,977,010	3,396,222	1,538	1,145	133			260	713	44		
206,556	283,030	8,189,980	238,982	37,672	777,314	6,402,315	431,419	20,878,515	14,044,781	9,823	5,540	2,020	29		380	1,854	45		
803,394	1,390,813	9,028,702		5,660	1,011,018	19,252,430	481,734	47,297,519	27,563,346	18,390	1,797		25		80	10,488	46		
337,862	326,115	3,921,335	164,497	4,457	946,537	18,378,196	412,523	28,400,765	9,610,046	7,543	4,249				825	2,469	47		
433,001	576,925	3,115,314	12,462	41,866	507,206	6,633,421	307,354	14,278,973	7,338,198	7,253	2,375	450			1,062	3,366	48		
375,090	525,829	3,568,867	2,198	9,848	479,729	6,135,585	249,900	12,386,556	6,001,071	11,260	3,939	2,700	9		1,807	2,806	49		
339,951	322,696	2,235,274	1,139	18,700	410,607	10,992,870	135,995	10,836,997	5,708,132	2,352	810		8		90	1,444	50		
270,744	106,054	1,294,535		17,050	68,571	6,113,189	107,675	9,697,701	3,476,837	2,188	1,475				6	707	51		
13,773	4,209	49,223	3,088	3,624	5,122	197,419	6,007	330,234	126,808	71					34	37	52		
389,121	217,109	2,375,681	35,401	22,812	479,799	7,049,154	500,440	13,980,185	6,430,591	5,942	2,054	1,800	215		1,873	1,387	53		

\* Same number reported for one or more other months.



# MINES AND QUARRIES—MASSACHUSETTS.

## EXPLANATION OF TERMS.

**Scope of census and period covered.**—The census of mines, quarries, and petroleum or natural-gas wells does not cover enterprises which were idle; that is, in which neither productive nor development work was done during the entire year, or the products of which were valued at less than \$500; or in the case of bituminous coal mining, producing less than 1,000 tons, or, if not productive, in which development work amounting to less than \$5,000 was done. The returns relate to the calendar year 1919. When use is made of the statistics relating to character of ownership, size of enterprises, and similar subjects, it is imperative that due attention be given their limitations, particularly in connection with any attempt to show average wages, cost of production, or profits.

**The enterprise.**—The term "enterprise" represents one or more mines and quarries, wells or groups of wells, or natural-gas gasoline plants, all within the same state, operated under a common ownership or unified control, or for which only one set of books of account was kept, and for which a single report was secured. It may cover plants at several localities within the same state. If plants under unified control were not all located within the same state, separate reports were secured in order that statistics for the several enterprises thus defined might be included in statistics for the states in which they were located. The enterprise is further defined as being limited to a single industry.

**Number of mines, quarries, wells, and plants.**—Under these designations is given the number of mines, quarries, wells, and gasoline plants shown by the returns. As a rule each group of workings at a given locality in which operations were conducted as a unit or were unified by common management or joint handling of some part of the mining process, has been considered as a single mine or quarry. Many individual openings, therefore, are not counted as individual mines. The total number reported comprises those in operation or in the course of development during the year 1919. For petroleum and natural-gas wells the individual wells were counted and the total number productive December 31, 1919, is reported. The number of natural-gas gasoline plants is the total number reported in operation during the year.

**Classification by industries.**—The enterprises reported have been grouped by industries according to the kind of products.

**Selected industries.**—The detailed table gives the principal facts separately for the leading industries of the state.

**Influence of increased prices.**—In comparing figures for cost of supplies and materials and value of products with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years.

**Persons engaged in the industry.**—The number of persons engaged in each industry, by occupation, sex, and, in the case of wage earners, also by age, was reported for a single representative day. In addition to the number of wage earners on the representative date, 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 for the several months by 12.

**Salaries and wages.**—Under these heads are given the total payments during the year for salaries and wages, respectively.

**Prevailing hours of labor.**—This inquiry called merely for the prevailing practice followed in each enterprise. Occasional variations in hours from one part of the year to another were disregarded, and also where a few wage earners might have hours differing from the majority. All the wage earners of each enterprise are therefore counted in the class within which the enterprise falls.

**Capital.**—The instructions on the schedule relating to capital were as follows: "The answer should show the total amount of capital, owned and borrowed, invested by the operator in the enterprise on the last day of the business year reported. Do not include securities and loans representing investments in other enterprises." The reports received in respect to capital, however, have in so many cases been defective that the data compiled only indicate very general conditions.

**Expenses.**—The expenses reported in the census of 1919 include salaries and wages; the cost of supplies, materials, and fuels, including the freight on these; cost of power purchased; the cost of contract work; royalties and rents paid; and taxes paid or assessed. The census of 1909 reported in addition to the items of expenses covered by the present census all other items of expense incident to that year's business, except interest on indebtedness, dividends, and allowances for depreciation.

**Supplies and materials, fuel, and power.**—Statistics as to supplies and materials, fuel, and power, relate to the cost of these used during the year which may be more or less than the amount purchased during the year. The term "supplies and materials" covers mine, mill, quarry, and well supplies, and mineral purchased for treatment, resale, or distribution.

**Royalties and rents.**—The amounts given under this head represent the payment to fee holders or the value of share of product credited to fee holders for mineral output from leased land, and also rents paid for plants, equipment, and privileges or easements.

**Taxes.**—The taxes include Federal capital stock; corporation income, and excess profits tax; and also state, county, and local taxes. The data compiled in respect to Federal taxes are very defective as many mining corporations are engaged in other business and have sources of income other than from mining and do not pay taxes on mining separately.

**Expenditures for development work.**—In the statistics for producing enterprises that part of the expenses for salaries, wages, contract work, supplies and materials, fuel, and power credited to development work is shown as expenditures for development work. For nonproducing enterprises the total of these expenses is given as expenditure for development work.

**Quantity of products.**—In so far as the statistics on quantities of mineral products in 1919 are available for the states, they will be found in the reports of the United States Geological Survey.

**Value of products.**—The amounts given under this heading represent the selling value at point of production or f. o. b. at point of shipment, or such other value as may represent the net value or amount received for the 1919 product under the terms by which it was disposed of, and also includes the value at point of production of products used by the operating company.

**Cost of mining and profits.**—The data do not show entire cost of mining and well operations, and can not be used for the calculation of profits. No account was taken of depreciation or interest; rent of offices and buildings other than those for mines, quarries, and wells; insurance, selling, and other sundry expenses.

**Lands controlled.**—The inquiry on land tenure was confined to land pertaining to the operations covered by the report. In many of these, however, land held in reserve for future development and for other purposes not pertaining to mining was included and also a large number of more or less unsatisfactory estimates.

**Power used.**—The figures on power represent the rated capacity of the engines, motors, etc., and not the amount in actual daily use.

**Fuel.**—Statistics of fuel are shown only for anthracite and bituminous coal, coke, wood, oil, and gas. As only the principal varieties of fuel are shown, no comparison can be made with the total cost.



## STATISTICS FOR THE STATE.

Massachusetts, which ranks forty-fourth among the states in size (land area 8,039 square miles) and sixth in population (3,852,356 in 1920), ranked thirty-sixth in value of mineral products for 1919. The state ranked thirty-sixth also in total number of persons engaged in the mining industries and thirty-eighth in the average number of wage earners employed.

The total value of products of all mines and quarries in Massachusetts in 1919 was \$4,175,699, which was an increase of 20.4 per cent over the value reported at the census of 1909. The total amount given as value of products includes the value of a small quantity of fuller's earth produced as a by-product by an enterprise classified as a basalt-quarrying operation, and also includes small amounts received for power sold and for miscellaneous services performed for other enterprises.

Decreases in the number of enterprises, in the number of individual mines and quarries operated, in the number of persons engaged, and in the capital invested in the mining industries, as shown in Table 1, marked the decline of mining and quarrying in the state of Massachusetts. Increases in salaries, wages, cost of supplies and materials and fuel and power, and in the value of products are largely due to general price increases since 1909, and are not indicative of growth in the industries. The large increase shown in taxes is accounted for by impost of Federal income taxes since 1909.

The mining and quarrying industries reported for 1919, classified by principal products and listed in order of value of products, were granite, basalt, marble, iron ore, limestone, talc and soapstone, silica, sandstone, fuller's earth, and clay. The industries for which statistics can be shown without disclosure of individual operations are ranked by value of products in Table 2.

Granite quarrying, the leading mineral industry in Massachusetts, produced stone valued at \$2,405,165 in 1919, which amount is 57.6 per cent of the value of all mineral products in the state.

The industry next in importance, basalt quarrying, produced stone to the value of \$1,548,611, which is 37.1 per cent of the total value of products for the

state. All the stone quarrying industries combined, i. e., granite, basalt, marble, limestone, and sandstone, accounted for approximately 99 per cent of the value of all mineral products.

Table 3 shows that among the operators of mining enterprises in Massachusetts the corporation was the most common form of organization; 52.7 per cent of the total number of enterprises were corporations. They employed 78.8 per cent of all wage earners in the mining industries in the state and reported 77.2 per cent of the total value of all mineral products. The table also shows that in the granite industry ownership or control by individuals slightly exceeded that by corporations, but that the latter conducted larger and more important enterprises.

The relatively large number of small enterprises, as determined by the average number of wage earners employed, is brought out by Table 4. Of the total number of mining and quarrying enterprises, 93.2 per cent were in classes having less than 51 wage earners and such enterprises employed 62 per cent of the total number of wage earners. Enterprises employing more than 50 wage earners constituted 6.8 per cent of the total number of enterprises and employed 37.9 per cent of the total number of wage earners. Only one enterprise in this state in 1919 had more than 100 wage earners; this, in the granite industry, employed 343 wage earners, or 20.1 per cent of the total number.

Table 5 shows that in a majority of the enterprises and for approximately 60 per cent of the wage earners in all the mining industries in the state in 1919 the prevailing hours of labor were 44 to 53 per week. For more than two-thirds of the enterprises and for 86.3 per cent of the wage earners in the basalt industry the hours of labor per week were 54 to 62 and the 9-hour day was the rule.

The statistics for wage earners presented in Table 6, showing changes in the number employed month by month, reflect conditions prevailing in the industries during the census year.

Table 7 presents for 1919 statistics in detail for the state as a whole and for each industry that can be shown without disclosure of individual operations.



TABLE 1.—COMPARATIVE SUMMARY, PRODUCING ENTERPRISES: 1919 AND 1909.

	MINING INDUSTRIES.		Per cent of increase. <sup>1</sup>		MINING INDUSTRIES.		Per cent of increase. <sup>1</sup>
	1919	1909			1919	1909	
Number of enterprises.....	74	139	-46.8	Capital.....	\$4,882,574	\$5,054,093	-3.4
Number of mines and quarries.....	79	147	-46.3	Principal expenses:			
Persons engaged.....	1,910	3,588	-46.8	Salaries.....	324,602	213,358	52.1
Proprietors and firm members, total.....	50	121	-58.7	Wages.....	2,068,844	1,986,997	5.2
Number performing manual labor in or about the mines and quarries.....	10	43	-76.2	Contract work.....	11,186	10,272	-31.2
Salaried employees.....	156	170	-11.4	Supplies and materials.....	494,249	303,098	35.9
Wage earners (average number).....	1,701	3,201	-48.2	Fuel and power.....	263,345	153,258	71.8
Power used (horsepower).....	12,498	15,031	-16.0	Royalties and rents.....	59,067	55,400	6.6
				Taxes.....	83,009	40,187	106.6
				Value of products.....	4,175,699	3,407,888	20.4

<sup>1</sup> A minus sign (—) denotes decrease. Percentages are omitted where base is less than 100.

TABLE 2.—PRINCIPAL INDUSTRIES, PRODUCING ENTERPRISES, RANKED BY VALUE OF PRODUCTS: 1919.

INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.		INDUSTRY.	Number of enterprises.	WAGE EARNERS.		VALUE OF PRODUCTS.	
		Average number.	Per cent distribution.	Amount.	Per cent distribution.			Average number.	Per cent distribution.	Amount.	Per cent distribution.
All industries.....	74	1,704	100.0	\$1,175,699	100.0	Basalt.....	21	547	32.1	\$1,548,611	37.1
Granite.....	42	1,034	60.7	2,405,165	57.6	All other industries <sup>1</sup> .....	11	123	7.2	221,023	5.3

<sup>1</sup> Includes enterprises in industries as follows: Clay, 1; fuller's earth, 1; iron ore, 1; limestone, 1; marble, 3; sandstone, 1; silica, 2; talc and soapstone, 1.

TABLE 3.—CHARACTER OF ORGANIZATION, FOR SELECTED INDUSTRIES, PRODUCING ENTERPRISES: 1919.

INDUSTRY AND CHARACTER OF ORGANIZATION.	Number of enterprises.	Number of wage earners.	VALUE OF PRODUCTS.		PER CENT DISTRIBUTION.		
			Total.	Per enterprise.	Enterprises.	Wage earners.	Value of products.
ALL INDUSTRIES.....	74	1,704	\$4,175,699	\$56,428	100.0	100.0	100.0
Corporation.....	39	1,342	3,222,633	82,632	52.7	78.8	77.2
Individual.....	20	284	766,312	38,316	27.0	16.7	18.4
Firm <sup>1</sup> .....	15	78	186,754	12,450	20.3	4.0	4.5
GRANITE.....	42	1,034	2,405,165	57,266	100.0	100.0	100.0
Corporation.....	15	768	1,744,081	116,332	35.7	77.2	72.6
Individual.....	10	185	501,836	31,305	38.1	17.0	20.9
Firm.....	11	51	158,348	14,395	26.2	4.0	6.6
BASALT.....	21	547	1,548,611	73,743	100.0	100.0	100.0
Corporation.....	10	459	1,324,067	82,810	76.2	83.9	85.6
Unincorporated <sup>2</sup> .....	5	88	223,644	44,720	23.8	16.1	14.4

<sup>1</sup> Includes 2 other forms of organization.<sup>2</sup> Includes individual, 2; firm, 1; and other, 2.

TABLE 4.—SIZE OF PRODUCING ENTERPRISES, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.		INDUSTRY AND WAGE EARNERS PER ENTERPRISE.	ENTERPRISES.		WAGE EARNERS.	
	Number.	Per cent distribution.	Number.	Per cent distribution.		Number.	Per cent distribution.	Number.	Per cent distribution.
ALL INDUSTRIES.....	74	100.0	1,704	100.0	BASALT.....	21	100.0	547	100.0
1 to 5.....	21	28.4	49	2.9	1 to 5.....	2	9.5	6	1.1
6 to 20.....	20	25.1	307	18.0	6 to 20.....	9	42.9	123	23.0
21 to 50.....	22	29.7	701	41.1	21 to 50.....	8	38.1	280	47.5
51 to 100.....	4	5.4	304	17.8	51 to 100.....	2	9.5	155	28.3
101 to 500.....	1	1.4	343	20.1					
GRANITE.....	42	100.0	1,034	100.0					
1 to 5.....	14	33.3	27	2.6					
6 to 20.....	14	33.3	100	15.5					
21 to 50.....	11	26.2	355	34.3					
51 to 100.....	2	4.8	149	14.4					
101 to 500.....	1	2.4	343	33.2					



TABLE 5.—NUMBER OF PRODUCING ENTERPRISES AND AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED INDUSTRIES: 1919.

INDUSTRY.	TOTAL.		NUMBER WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—					
	Enter-prises.	Wage earners.	35 and under.		44 to 53.		54 to 62.	
			Enter-prises.	Wage earners.	Enter-prises.	Wage earners.	Enter-prises.	Wage earners.
All industries.....	74	1,704	1	12	46	1,080	27	612
Granite.....	42	1,034	1	12	34	926	7	96
Basalt.....	21	547			6	75	15	472
All other industries.....	11	123			6	79	5	44

TABLE 6.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES: 1919.

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

INDUSTRY.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
All industries.....	1,704	1,037	<b>1,017</b>	1,236	1,757	1,889	1,946	1,978	<b>2,032</b>	1,956	1,997	1,913	1,690	50.0
Granite.....	1,034	643	<b>655</b>	743	1,056	1,101	1,198	1,212	1,201	1,117	1,201	1,174	1,067	52.4
Basalt.....	547	<b>805</b>	<i>805</i>	386	578	599	613	640	677	708	677	607	496	40.5
All other industries.....	123	<i>89</i>	<i>95</i>	127	123	129	135	126	143	131	119	132	127	62.2

TABLE 7.—DETAILED STATISTICS FOR MINING INDUSTRIES: 1919.

	PRODUCING ENTERPRISES.					PRODUCING ENTERPRISES.			
	Total.	Granite.	Basalt.	All other. <sup>1</sup>		Total.	Granite.	Basalt.	All other. <sup>1</sup>
Number of enterprises.....	74	42	21	11	Persons engaged in industry—Contd.				
Number of mines and quarries.....	79	43	23	13	Wage earners, etc.—Continued.				
Capital.....	\$4,882,574	\$3,140,126	\$1,026,670	\$709,878	Muckers, loaders, laborers, and others not classified—				
Principal expenses:					Above ground.....	545	193	340	12
Salaries and wages—					Below ground.....	4			4
Officers.....	\$156,066	\$70,751	\$81,215	\$4,100	Wage earners employed in mills and beneficiating plants—				
Superintendents and managers.....	\$80,492	\$52,536	\$28,145	\$5,811	Above ground.....	359	316		43
Technical employees.....	\$9,500	\$3,700	\$5,800		Mineral land operated.....acres..	5,223	3,384	690	1,140
Clerks, etc.....	\$72,544	\$48,557	\$20,245	\$3,742	Land controlled, total.....acres..	6,354	3,960	690	1,704
Wage earners.....	\$2,068,844	\$1,237,888	\$719,596	\$111,360	Mineral land owned.....	4,701	3,262	525	914
Supplies and materials.....	\$494,249	\$237,897	\$229,244	\$27,108	Mineral land leased.....	522	122	165	235
Fuel.....	\$183,694	\$110,504	\$65,117	\$11,073	Timber and other lands owned and leased.....	1,131	576		555
Power.....	\$76,651	\$26,215	\$40,849	\$9,587	Power used: Aggregate horsepower.....	12,498	6,580	4,721	1,197
Royalties and rents.....	\$59,067	\$12,460	\$44,183	\$2,434	Prime movers (horsepower, total)....	7,736	4,737	2,165	834
Taxes.....	\$83,009	\$48,204	\$30,822	\$3,983	Steam engines—				
Contract work.....	\$11,186	\$4,136		\$7,050	Number.....	194	149	31	14
Expenditures for development (included in the above items).....	\$23,813	\$6,441	\$10,750	\$6,622	Horsepower.....	7,406	4,707	2,165	534
Value of products.....	\$4,175,699	\$2,405,105	\$1,548,611	\$221,923	Internal-combustion engines—				
Persons engaged in industry:					Number.....	3	2		1
Proprietors and firm members (total).....	1,910	1,167	601	142	Horsepower.....	45	30		15
Number performing manual labor.....	60	42	4	4	Water wheels and turbines—				
Salaried officers.....	10	10			Number.....	2			2
Superintendents and managers.....	43	23	16	4	Horsepower.....	285			285
Technical employees.....	40	22	13	5	Purchased power (horsepower, total)....	4,762	1,843	2,556	363
Clerks, etc.....	7	4	3		Electric motors operated by purchased current—				
Wage earners (average number).....	1,704	1,034	547	123	Number.....	101	49	39	13
Wage earners by occupation (Dec. 15):					Horsepower.....	4,757	1,838	2,556	363
Above ground (total).....	1,880	1,181	586	113	Other equipment operated by purchased power—				
Below ground (total).....	21			21	Horsepower.....	5	5		
Foremen, shift bosses, etc.—					Electric motors run by current generated by enterprise using:				
Above ground.....	76	52	17	7	Number.....	1		1	
Below ground.....	2			2	Horsepower.....	10		10	
Enginemen, hoistmen, electricians, mechanics, etc.—					Fuel used:				
Above ground.....	204	133	57	14	Coal, anthracite, tons, 2,240 pounds..	89	37	32	
Miners, quarrymen, and drillmen, including their helpers—					Coal, bituminous, tons, 2,000 pounds..	22,871	14,602	6,710	1,659
Above ground.....	570	387	148	35	Coke.....tons, 2,000 pounds..	50	50		
Below ground.....	13			13	Wood.....cords.....	290	190		100
Timbermen, trackmen, and men engaged in hauling, tramming, etc.—					Fuel oils.....barrels.....	29	5	24	
Above ground.....	126	100	24	2	Gasoline and other volatile oils.....barrels.....	57	56		1
Below ground.....	2			2					

<sup>1</sup> Includes enterprises as follows: Clay, 1; fuller's earth, 1; iron ore, 1; limestone, 1; marble, 3; sandstone, 1; silica, 2; talc and soapstone, 1.<sup>2</sup> Includes 1 wage earner under 16 years of age.