

Chapter X.—POWER USED IN MANUFACTURING.

Summary for the United States: 1879 to 1919.—The increasing importance of power in the manufacturing industries of the country is shown by Table 217, which gives for all industries combined the number and horsepower of the engines or motors employed by manufacturing establishments, as reported at each census from 1879 to 1919, inclusive.

Primary power, as the term is used by the Bureau of the Census, comprises all power which is primary from the standpoint of the manufacturing establishments using it. It includes, therefore, not only the power of engines and water wheels owned and operated by the manufacturing establishments, but also rented power—that is, the power of electric motors run by purchased current and any other power that may be purchased or rented from outside sources. It should not be assumed that electric motors so operated are themselves rented, as they are in most cases owned by the establishments using the power. Primary power does not include the power of electric motors which are run by current generated in the same establishment, since the inclusion of such power would result in duplication.

The horsepower of electric motors run by current generated in the establishment where it is used is presented separately. This figure indicates the extent to which electric motors are being used for the distribution of the power generated by steam engines or other prime movers within the establishment, but it has no direct bearing on the extent of the use of power in manufacturing industries. The total horsepower of all electric motors, including that of motors run by purchased current (classified as rented electric power), is also given.

TABLE 217.—POWER USED IN MANUFACTURING INDUSTRIES: 1879 TO 1919.

POWER.	1919	1914	1909	1904	1899	1889	1879
Number of establishments...	290,105	276,701	203,401	216,180	207,514	253,405	233,832
Number of establishments reporting power...	237,851	205,503	155,642	134,481	123,418	100,726	85,933
Primary horsepower, total...	29,501,702	22,437,072	18,675,376	13,487,707	10,097,836	5,938,635	3,410,837
Average horsepower per establishment.....	124.0	109.1	100.9	100.3	75.7	59.0	39.7
Owned.....	20,062,636	18,400,941	16,802,706	13,854,805	9,778,418	5,850,061	3,110,837
Steam engines and turbines:							
Number.....	122,628	137,172	153,528	127,267	130,710	91,403	56,483
Horsepower.....	17,037,073	15,501,503	14,228,632	10,917,502	18,189,604	14,596,089	2,186,458
Internal-combustion engines:							
Number.....	33,407	37,093	34,356	21,515	14,334	(1)	(1)
Horsepower.....	1,260,100	901,908	751,186	289,423	134,742	8,930	(1)
Water wheels and motors:							
Number.....	14,008	18,089	21,282	20,992	23,069	39,003	53,404
Horsepower.....	1,765,203	1,820,443	1,823,888	1,647,880	1,454,112	1,955,045	1,225,370
Rented.....	9,442,153	4,027,131	1,972,070	932,902	319,475	88,571	(1)
Electric:							
Motors.....	900,000	451,002	199,300	(1)	(1)	(1)	(1)
Horsepower.....	9,347,556	3,897,248	1,749,031	441,589	182,502	(1)	(1)
Other horsepower.....	94,600	129,883	123,030	191,313	130,913	88,571	(1)
Electric.....	16,317,277	8,835,970	4,817,140	1,592,473	492,936	15,509	(1)
Rented:							
Motors.....	990,000	451,002	199,300	(1)	(1)	(1)	(1)
Horsepower.....	9,347,556	3,897,248	1,749,031	441,589	182,502	(1)	(1)
Generated by establishment reporting:							
Motors.....	487,021	321,300	189,545	73,119	16,801	(1)	(1)
Horsepower.....	6,960,721	4,038,722	3,008,109	1,130,880	310,374	(1)	(1)

¹ Includes 20,203 horsepower reported as "other" owned power in 1899; 92,154 horsepower in 1904; 49,985 horsepower in 1899; and 4,784 horsepower in 1889.

² Figures not available.

The total primary horsepower of manufacturing establishments in 1919 was 29,504,792, as compared with 3,410,837 in 1879. The percentages of increase for the four decades from 1879 to 1919 were 74.1, 70, 84.9, and 58, respectively.

There was a gain in steam power from census to census, but each succeeding census since 1899 shows a decreased proportion. In 1899 steam power represented 80.6 per cent of the total power, as compared with 57.8 per cent in 1919.

There has been a steady increase in the horsepower of internal-combustion engines since 1899, and the proportion of the total horsepower rose from 1.3 per cent in 1899 to 4.3 per cent in 1919.

The total water power increased at each census from 1879 to 1914, but shows a slight decrease from 1914 to 1919. The proportion of water power to the total, however, declined from census to census until the proportion in 1919 was but 6 per cent as compared with 35.9 per cent in 1879.

Rented electric power shows a remarkable growth, increasing in horsepower and proportion of the total power at each succeeding census, until in 1919, rented electric power represented 31.7 per cent of all power reported as compared with 1.8 per cent in 1899.

Internal-combustion engines, as the term is here used, include not only such engines using natural or manufactured gas and blast furnace gases, but also those using gasoline, crude petroleum, kerosene, and alcohol. The first United States census of manufactures at which statistics in regard to the use of internal-combustion engines were obtained was that of 1889, when a total of 8,930 horsepower was reported for such engines. In 1919 the horsepower of this class of engines was 1,259,400, or more than one hundred times as great, and the rates of increase for many of the states have been even more remarkable. The proportion of the total horsepower represented by that of such engines rose from two-tenths of 1 per cent in 1889 to 1.3 per cent in 1899, 2.1 per cent in 1904, 4 per cent in 1909, 4.4 per cent in 1914, and 4.3 per cent in 1919.

Of the 290,105 establishments covered by the census of 1919, 237,854, or 82 per cent, reported the use of power, as compared with 205,590, or 74.5 per cent, in 1914, and 185,042 establishments, or 68.9 per cent of the total number in 1909.

Horsepower in leading industries: 1919, 1914, 1909, and 1904.—Table 218 shows for 106 industries the amount of each of the several kinds of primary power reported in 1919, 1914, 1909, and 1904. The total electric power is also shown, including that of motors operated by current generated in the establishments, in addition to that of motors operated by purchased current. The first 75 of these industries were selected because they were the most important in the employment of wage earners, each reporting 18,000 or more wage earners in 1919. There were a number of industries however, that reported a greater amount of power than some of those included in these 75 leading industries, and the statistics of power for 31 of these industries—those which in 1919 reported more than 26,000 horsepower—are also shown in the table.

The total primary power used in 1919 exceeded 1,500,000 horsepower in 6 industries, namely, the lumber industry, the steel works and rolling mills, the manufacture of paper and wood pulp, and of cotton goods, the blast-furnace industry, and the foundries and machine shops. The primary power for these 6 industries combined amounted to 13,934,074 horsepower, or 47.2 per cent of the total for all industries.

Detailed statistics of power for 1919 for each industry are given in Table 222.

Comparative statistics of horsepower, by geographic divisions and states: 1869-1919.—As to most of the items derived from the manufactures census, comparisons for states and geographic divisions can not properly be made between all the censuses from 1869 to 1919 for the reason that the earlier censuses included the hand trades and neighborhood industries, which were excluded at the later censuses. With respect to horsepower, however, approximately exact comparisons can be made for each census back to 1869, for the reason that the amount of horsepower used in the hand trades and neighborhood industries was so small that it had little effect upon the totals for the earlier censuses. Table 219 shows, for each state and geographic division, the total horsepower used in manufacturing industries as reported at each census from 1869 to 1919, and the amount of each of the principal kinds of power.

TABLE 218.—HORSEPOWER IN LEADING INDUSTRIES: 1919, 1914, 1909, AND 1904.

INDUSTRY.	Cen-sus year.	PRIMARY HORSEPOWER.						Electric horse-power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines. ¹	Water wheels and motors.	Internal-combustion engines.	Electric.	Other.		
All industries.....	1919	29,504,702	17,037,973	1,765,263	1,259,400	9,347,556	94,600	16,317,277	
	1914	22,437,072	15,501,503	1,826,443	991,905	3,897,248	129,883	8,835,070	
	1909	18,075,376	14,228,632	1,822,888	751,180	1,740,031	123,639	4,817,140	
	1904	13,487,707	10,917,502	1,647,880	289,423	441,580	101,313	1,592,475	
<i>Industries with over 18,000 wage earners in 1919.</i>									
Agricultural implements.....	1919	128,249	69,942	6,373	4,002	47,842	-----	100,283	
	1914	121,428	79,688	5,091	5,113	30,764	172	83,117	
	1909	100,601	71,894	8,390	4,433	15,684	200	88,905	
	1904	89,738	77,175	6,300	2,360	3,828	75	20,713	
Automobiles, including bodies and parts.....	1919	544,242	146,212	566	12,927	379,388	5,149	490,560	
	1914	173,684	60,233	411	10,075	102,150	809	135,818	
	1909	75,550	39,325	287	7,000	27,641	1,297	41,829	
	1904	10,109	7,376	80	1,459	1,051	143	4,229	
Boots and shoes, including cut stock and findings.....	1919	140,317	62,654	2,483	991	68,170	6,013	97,852	
	1914	112,929	64,236	2,066	3,729	37,389	5,509	61,657	
	1909	96,302	60,772	2,815	3,532	17,381	11,802	32,381	
	1904	63,968	44,412	2,270	2,676	5,959	8,651	12,063	
Boots and shoes, rubber.....	1919	49,400	21,220	2,462	-----	25,718	-----	28,320	
	1914	24,621	19,885	1,275	20	3,381	60	6,607	
	1909	25,903	22,203	1,888	-----	1,712	15	3,407	
	1904	26,084	24,145	1,300	-----	39	600	1,191	
Boxes, paper and other, not elsewhere specified.....	1919	54,955	22,471	1,964	1,124	29,116	280	38,235	
	1914	38,179	18,734	1,979	1,769	14,918	839	22,722	
	1909	23,323	10,730	2,425	1,621	6,927	1,020	9,415	
	1904	15,117	8,343	1,718	1,518	2,138	1,400	3,057	
Brass, bronze, and copper products.....	1919	265,688	116,517	2,320	3,540	142,996	315	183,504	
	1914	122,700	78,639	3,291	8,371	31,673	726	64,868	
	1909	106,120	78,101	3,374	4,890	18,399	1,356	83,462	
	1904	69,494	50,063	2,969	1,834	3,143	2,495	8,846	
Bread and other bakery products.....	1919	185,950	34,250	522	5,274	125,666	239	146,388	
	1914	107,771	30,095	369	7,400	68,933	974	86,779	
	1909	65,208	25,509	334	8,166	31,160	129	39,705	
	1904	37,241	22,050	452	5,075	8,303	101	11,993	
Brick, tile, pottery, and other clay products.....	1919	439,194	304,094	146	18,617	115,698	639	148,061	
	1914	470,758	379,626	490	21,069	68,638	335	95,080	
	1909	451,188	415,486	367	14,968	20,263	102	31,773	
	1904	360,280	349,879	813	8,410	4,413	765	7,720	
Butter, cheese, and condensed milk.....	1919	168,871	104,223	1,555	9,294	53,470	320	70,562	
	1914	130,862	104,729	1,274	7,229	17,027	603	23,001	
	1909	101,349	90,933	1,485	3,378	5,366	212	8,276	
	1904	93,845	88,923	1,411	1,800	1,597	114	2,378	
Canning and preserving.....	1919	180,812	114,140	140	9,961	56,220	351	72,674	
	1914	120,004	90,778	877	8,987	18,726	656	28,438	
	1909	81,179	70,392	398	4,619	5,469	401	8,728	
	1904	60,831	56,122	460	1,982	1,776	511	3,150	
Carpets and rugs, other than rag.....	1919	38,170	28,777	2,207	85	6,524	577	24,536	
	1914	43,963	29,486	4,130	19	9,150	1,109	25,251	
	1909	38,553	30,080	3,305	500	2,700	1,359	10,006	
	1904	33,945	29,643	2,988	55	293	966	5,587	
Carriages and wagons and materials.....	1919	64,666	37,786	1,441	4,762	19,990	878	32,751	
	1914	112,549	60,093	3,132	10,557	32,654	113	46,384	
	1909	126,032	82,928	4,067	13,120	24,969	348	39,424	
	1904	106,159	82,488	3,179	9,739	8,780	1,235	16,434	

¹ Figures include "other" owned power as follows: 1909, 29,293 horsepower; 1904, 92,154 horsepower.

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TABLE 218.—HORSEPOWER IN LEADING INDUSTRIES: 1919, 1914, 1909, and 1904—Contd.

INDUSTRY.	Cen-sus year.	PRIMARY HORSEPOWER.						Electric horse-power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines.	Water wheels and motors.	Internal-combustion engines.	Electric.	Other.		
<i>Industries with over 18,000 wage earners in 1919—Continued.</i>									
Cars and general shop construction and repairs by electric railroad companies.	1919	53,830	5,875	-----	564	47,386	25	50,016	
	1914	44,989	5,997	1,010	1,121	36,861	-----	44,670	
	1909	35,794	4,831	-----	9	30,954	-----	33,024	
	1904	3,154	1,355	600	40	1,159	-----	10,358	
Cars and general shop construction and repairs by steam-railroad companies.	1919	504,515	375,606	841	6,993	207,630	3,445	500,141	
	1914	433,994	323,634	1,792	5,916	102,562	90	325,054	
	1909	203,361	255,840	450	3,140	33,788	145	161,288	
	1904	167,973	159,746	203	1,877	6,074	73	52,635	
Cars, steam-railroad, not including operations of railroad companies.	1919	157,865	92,015	100	2,848	62,827	75	170,485	
	1914	126,687	90,934	230	5,757	20,416	350	115,479	
	1909	97,797	89,823	370	1,148	6,456	-----	61,060	
	1904	55,994	55,260	225	193	316	-----	14,505	
Cement.....	1919	488,808	278,009	3,550	24,763	182,486	-----	345,535	
	1914	490,402	291,321	6,346	28,366	164,369	-----	336,516	
	1909	371,799	295,138	3,430	19,065	54,186	-----	158,749	
	1904	149,604	137,770	2,980	3,003	5,751	40	35,292	
Chemicals.....	1919	376,940	241,749	3,692	5,004	126,419	76	235,973	
	1914	282,385	124,329	3,135	5,962	134,481	14,478	172,510	
	1909	208,657	103,488	11,066	1,190	92,067	846	156,709	
	1904	132,304	71,299	6,469	477	10,130	44,019	18,240	
Clocks and watches, including cases and materials.	1919	18,681	12,090	511	1,551	4,529	-----	12,285	
	1914	15,647	11,863	198	483	3,063	40	8,844	
	1909	14,957	12,593	284	425	1,612	43	7,023	
	1904	10,731	9,180	449	72	892	138	3,513	
Clothing, men's, including shirts.	1919	55,521	15,454	560	1,706	37,368	433	42,611	
	1914	53,281	19,409	1,248	3,428	28,284	912	33,444	
	1909	42,725	16,009	1,380	5,259	18,816	1,261	22,804	
	1904	29,829	14,641	910	3,210	9,581	1,487	11,337	
Clothing, women's.....	1919	32,622	2,283	75	520	29,534	201	29,937	
	1914	28,386	2,632	88	1,125	24,029	522	24,757	
	1909	22,294	4,112	206	1,958	15,175	843	16,085	
	1904	14,016	4,422	309	1,593	7,494	1,098	8,027	
Coke, not including gas-house coke.	1919	224,879	148,478	-----	1,850	74,551	-----	209,183	
	1914	117,127	77,367	-----	2,120	37,640	-----	88,409	
	1909	62,602	46,251	500	1,212	13,754	885	41,064	
	1904	66,660	65,144	188	150	1,187	-----	10,509	
Confectionery and ice-cream ¹	1919	179,801	52,763	50	11,800	115,069	200	138,344	
	1914	98,303	45,107	63	10,781	41,836	600	62,540	
Cooperage and wooden goods, not elsewhere specified.	1919	56,604	42,488	1,310	1,246	11,518	42	18,637	
	1914	50,001	48,404	2,651	1,740	5,765	441	9,076	
	1909	65,108	55,071	3,818	2,029	2,819	1,371	4,524	
	1904	56,988	50,382	4,060	1,221	969	356	2,086	
Copper, tin, and sheet-iron products. ²	1919	106,084	34,158	106	6,422	64,961	437	84,955	
	1914	75,263	35,400	224	7,431	30,644	1,564	49,473	
	1909	62,386	34,655	420	8,572	17,898	821	30,771	
	1904	30,229	20,824	272	2,894	5,006	1,233	7,454	
Cordage and twine and jute and linen goods.	1919	104,847	58,381	18,845	778	26,806	87	51,183	
	1914	93,937	65,867	14,377	2,844	10,649	200	34,098	
	1909	77,001	57,581	15,768	1,270	2,358	119	14,293	
	1904	65,984	52,369	12,589	98	737	191	8,271	
Corsets.....	1919	7,156	4,176	10	107	2,663	200	5,132	
	1914	7,057	4,683	-----	6	2,273	95	4,273	
	1909	4,581	3,320	-----	56	1,061	144	2,804	
	1904	3,284	2,695	10	60	262	257	434	

¹ Figures not available for 1909 and 1904.² Includes for 1919, 1914, and 1909 some establishments manufacturing enameled stamped ware which were included under "enameling and japanning" in 1904.

TABLE 218.—HORSEPOWER IN LEADING INDUSTRIES: 1919, 1914, 1909, and 1904—Contd.

INDUSTRY.	Cen-sus year.	PRIMARY HORSEPOWER.						Electric horse-power owned and rented.	
		Total.	Owned.		Rented.				
			Steam engines and turbines.	Water wheels and motors.	Internal-combustion engines.	Electric.	Other.		
<i>Industries with over 18,000 wage earners in 1919—Continued.</i>									
Cotton goods, including cotton small wares.	1919	1,863,542	1,025,761	307,162	2,842	523,696	4,081	874,124	
	1914	1,585,933	1,011,303	314,210	4,016	522,864	3,551	512,933	
	1909	1,298,517	877,201	303,024	2,812	108,512	4,968	235,962	
	1904	986,604	708,333	252,923	1,786	14,095	9,467	67,130	
Cutlery and tools, not elsewhere specified.	1919	107,339	30,950	9,585	7,272	58,478	1,054	74,570	
	1914	73,255	36,205	9,838	8,194	17,580	1,342	34,680	
	1909	68,204	38,815	13,382	6,731	8,325	1,041	17,785	
	1904	54,397	34,106	11,459	4,032	3,631	1,127	8,427	
Dyeing and finishing textiles, exclusive of that done in textile mills.	1919	160,430	118,197	13,543	2,124	25,983	573	85,880	
	1914	130,172	111,506	9,969	690	7,162	845	51,021	
	1909	107,746	92,284	10,114	1,207	2,605	1,476	24,011	
	1904	84,368	70,565	10,130	711	1,087	2,385	11,724	
Electrical machinery, apparatus, and supplies.	1919	438,839	193,231	1,800	7,446	235,605	737	470,386	
	1914	227,731	142,085	1,065	8,694	74,476	1,411	262,110	
	1909	158,768	99,897	1,114	6,733	50,043	959	164,540	
	1904	105,376	77,059	1,181	2,940	21,313	2,883	61,753	
Fertilizers.	1919	125,939	40,482	709	4,862	79,886	—	93,111	
	1914	114,281	60,353	317	5,786	47,460	355	63,266	
	1909	64,711	49,777	365	1,825	12,570	165	19,238	
	1904	47,989	44,857	363	246	2,358	175	5,275	
Firearms and ammunition.	1919	65,205	33,356	299	2,241	29,389	—	54,402	
	1914	18,828	10,170	462	3,139	4,951	100	17,280	
	1909	17,840	11,508	986	2,927	2,278	141	8,472	
	1904	21,408	18,613	1,136	880	632	144	3,777	
Flour-mill and gristmill products.	1919	876,405	329,589	186,087	96,291	263,497	941	800,010	
	1914	822,384	403,186	220,328	76,451	112,441	978	150,248	
	1909	863,584	473,571	264,131	62,681	49,901	3,300	67,066	
	1904	775,318	474,077	258,363	26,326	15,584	970	20,308	
Food preparations, not elsewhere specified.	1919	150,230	51,893	796	5,337	91,643	561	112,798	
	1914	80,022	39,012	915	5,352	34,347	396	47,761	
	1909	55,166	35,554	1,150	4,331	13,460	671	20,024	
	1904	28,162	22,185	1,158	1,283	3,123	413	4,230	
Foundry and machine-shop products.	1919	1,886,983	570,479	20,511	107,442	1,172,681	15,900	1,725,145	
	1914	1,129,768	548,027	19,583	108,073	444,328	1,155	866,849	
	1909	869,305	548,360	18,702	96,966	102,977	11,700	623,914	
	1904	606,165	467,680	18,633	49,006	55,350	13,507	109,625	
Furnishing goods, men's.	1919	19,979	9,579	785	220	9,279	116	14,482	
	1914	17,300	8,946	811	569	6,374	600	10,348	
	1909	12,116	7,501	480	710	2,988	407	4,880	
	1904	5,421	3,614	28	397	977	305	1,580	
Furniture and refrigerators.	1919	275,935	173,206	4,713	4,744	91,082	2,180	143,661	
	1914	251,997	185,076	5,180	7,317	48,597	5,247	88,964	
	1909	221,461	185,037	6,848	5,830	20,420	3,316	43,282	
	1904	169,774	149,530	6,890	4,133	4,580	4,035	9,665	
Gas and electric fixtures and lamps and reflectors.	1919	22,618	6,089	227	1,160	14,843	340	18,390	
	1914	18,668	7,088	197	1,725	9,200	435	11,491	
	1909	15,802	6,930	244	1,544	5,890	1,248	8,788	
	1904	8,444	5,126	77	1,012	1,364	865	2,219	
Gas, illuminating and heating.	1919	238,467	197,321	196	7,574	33,363	13	55,403	
	1914	213,370	179,878	426	13,729	19,271	67	37,381	
	1909	128,350	115,514	2,814	7,128	2,723	171	17,336	
	1904	73,101	67,652	359	3,211	1,454	425	8,378	

¹ Includes for 1919, 1914, and 1909 some establishments compounding table straps which were included under "sugar and molasses" in 1904.

² Includes for 1919, 1914, and 1909 some establishments manufacturing suspenders, garters, and elastic woven goods, which were classified under "rubber goods, not elsewhere specified," or under "millinery and lace goods" in 1904.

TABLE 218.—HORSEPOWER IN LEADING INDUSTRIES: 1919, 1914, 1909, AND 1904—Contd.

INDUSTRY.	Cen-sus year.	PRIMARY HORSEPOWER.						Electric horse-power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines.	Water wheels and motors.	Internal-combustion engines.	Electric.	Other.		
<i>Industries with over 18,000 wage earners in 1919—Continued.</i>									
Glass.....	1919	207,430	99,140	2,457	52,877	52,864	92	143,125	
	1914	163,139	105,061	201	43,448	14,224	205	92,896	
	1909	123,132	98,971	5	20,731	3,425	-----	43,589	
	1904	91,476	76,915	31	13,947	583	-----	16,769	
Hats, fur-felt.....	1919	20,380	15,251	120	10	4,996	12	9,631	
	1914	20,851	17,936	135	48	2,655	77	8,141	
	1909	19,245	16,578	20	147	2,172	228	6,186	
	1904	16,630	15,871	68	48	360	274	2,434	
Ice, manufactured.....	1919	572,970	406,942	2,542	28,003	132,438	3,045	158,552	
	1914	461,988	414,685	2,727	12,535	28,991	3,050	50,546	
	1909	317,789	304,685	2,262	3,264	6,414	2,161	14,253	
	1904	191,660	186,549	1,075	618	1,068	2,350	4,579	
Iron and steel, blast furnaces.....	1919	1,581,432	1,249,817	371	283,015	48,204	25	242,554	
	1914	1,222,273	1,005,374	1,261	194,037	21,601	-----	212,582	
	1909	1,173,422	1,033,033	309	125,230	14,850	-----	135,143	
	1904	773,278	763,702	680	3,757	139	-----	52,610	
Iron and steel, steel works and rolling mills.....	1919	3,820,917	2,856,556	9,041	257,473	695,097	2,750	2,350,596	
	1914	2,706,553	2,435,319	12,321	73,752	182,204	2,957	1,207,715	
	1909	2,100,978	1,950,946	5,529	70,391	58,797	115	716,609	
	1904	1,649,299	1,618,480	4,795	11,806	6,798	7,420	254,258	
Iron and steel, forgings; not made in steel works or rolling mills.....	1919	101,951	24,808	848	1,602	73,738	955	90,603	
	1914	38,215	16,883	780	1,832	17,048	1,672	25,076	
	1909	27,803	20,011	520	2,068	4,570	94	11,493	
	1904	16,069	13,918	904	672	313	262	1,945	
Jewelry.....	1919	16,389	1,647	114	545	12,790	1,208	15,750	
	1914	15,666	2,271	145	1,013	10,433	1,804	11,392	
	1909	11,204	2,748	200	694	5,179	2,383	5,759	
	1904	7,872	2,448	92	354	2,799	2,170	2,974	
Knit goods.....	1919	161,601	76,003	12,941	814	59,680	2,163	91,137	
	1914	125,842	80,884	14,643	1,108	26,284	2,923	46,117	
	1909	103,709	74,700	12,038	1,235	13,286	2,390	25,485	
	1904	78,769	57,460	13,532	668	4,048	2,461	9,724	
Leather goods.....	1919	20,248	6,430	64	658	13,020	76	15,486	
	1914	21,478	9,635	673	1,142	9,597	131	12,239	
	1909	28,148	10,028	1,373	1,381	14,940	420	16,663	
	1904	10,257	9,286	1,409	1,017	3,641	904	4,578	
Leather, tanned, curried, and finished.....	1919	218,238	150,800	2,029	6,438	58,494	477	143,935	
	1914	172,712	140,299	1,868	7,997	21,570	978	73,424	
	1909	148,140	131,451	1,556	7,231	6,487	1,415	35,919	
	1904	117,450	107,550	1,955	6,086	2,014	845	14,539	
Liquors, malt.....	1919	324,431	276,441	194	3,651	41,844	2,301	110,755	
	1914	405,884	371,291	635	3,752	29,321	835	111,958	
	1909	347,726	331,770	340	1,261	14,190	165	66,510	
	1904	206,159	261,280	678	647	3,369	185	22,508	
Locomotives, not made by railroad companies.....	1919	97,187	34,065	-----	3,355	59,084	683	118,873	
	1914	50,373	35,762	450	8,380	5,781	-----	76,846	
	1909	35,102	28,831	200	4,520	1,551	-----	40,504	
	1904	29,806	26,557	1,230	545	1,474	-----	13,267	
Lumber and timber products ¹	1919	2,930,186	2,520,229	69,890	45,751	287,843	6,673	534,903	
	1914	2,742,352	2,444,196	94,103	45,694	149,152	9,207	306,540	
	1909	2,840,082	2,588,323	140,508	38,628	62,200	10,428	130,707	
	1904	1,886,624	1,722,829	119,461	16,897	14,181	13,256	33,517	
Marble and stone work.....	1919	170,132	60,083	4,891	10,175	94,028	955	106,033	
	1914	207,461	110,156	16,433	12,529	66,997	1,346	94,976	
	1909	187,086	132,477	9,618	10,874	32,062	2,655	53,748	
	1904	102,887	82,700	6,281	5,390	6,838	1,678	11,278	

¹Includes "pulp wood" in 1914.

TABLE 218.—HORSEPOWER IN LEADING INDUSTRIES: 1910, 1914, 1909, AND 1904—Contd.

INDUSTRY.	Cen-	Total.	PRIMARY HORSEPOWER.					Electric horse- power owned and rented,	
			Owned.		Rented.				
			Steam engines and turbines.	Water wheels and motors.	Inter- nal- com- bus- tion engines.	Electric.	Other.		
<i>Industries with over 18,000 wage earners in 1910—Continued.</i>									
Millinery and lace goods, not elsewhere specified. ¹	1910	12,482	3,218	170	254	8,738	72	10,107	
	1914	12,736	4,832	715	378	6,563	218	7,883	
	1909	7,918	2,860	117	561	4,018	323	4,360	
	1904	4,737	2,102	46	270	1,663	566	2,110	
Musical instruments, pianos and organs and materials.	1910	47,804	30,912	436	1,280	15,030	146	28,766	
	1914	44,349	32,792	613	1,592	9,016	276	21,402	
	1909	41,623	33,325	1,106	1,271	5,355	566	17,229	
	1904	30,134	25,703	867	741	1,932	888	5,085	
Oil and cake, cottonseed.	1910	290,036	195,356	1,512	10,837	82,256	655	93,400	
	1914	249,781	218,872	1,035	6,748	23,126	.....	30,883
	1909	102,342	183,629	175	1,074	6,304	470	10,355	
	1904	150,246	148,914	539	115	658	.....	3,079
Paint and varnish.	1910	85,109	37,907	1,019	2,573	43,268	372	64,241	
	1914	70,611	43,881	1,426	3,226	19,035	3,043	34,917	
	1909	56,102	42,101	2,006	3,200	7,814	861	17,037	
	1904	41,288	34,952	997	1,673	2,650	1,016	7,540	
Paper and wood pulp.	1910	1,851,014	698,983	910,863	3,191	236,662	1,315	583,588	
	1914	1,621,154	597,840	876,741	9,674	127,669	9,200	325,411	
	1909	1,304,265	469,364	788,146	6,675	88,610	1,470	130,120	
	1904	1,093,708	370,852	717,089	1,916	2,748	203	31,664	
Paper goods, not elsewhere specified.	1910	35,538	17,688	2,260	255	15,166	169	25,664	
	1914	36,307	23,267	1,351	649	9,501	536	20,415	
	1909	27,007	19,246	1,340	576	5,245	660	12,080	
	1904	16,226	13,541	386	225	1,593	382	3,990	
Patent medicines and compounds and druggists' preparations.	1910	40,571	18,713	55	951	20,530	296	29,364	
	1914	28,872	15,908	179	2,000	10,422	363	17,924	
	1909	25,659	16,059	264	1,712	6,882	742	11,175	
	1904	17,008	12,465	173	983	2,468	919	4,894	
Petroleum, refining.	1910	238,906	144,743	131	42,617	51,385	.....	108,626
	1914	128,468	94,032	1,487	18,298	14,303	278	38,614	
	1909	90,268	84,085	.....	5,870	28	285	8,808
	1904	46,019	43,810	.....	2,059	150	.....	3,408
Phonographs and graphophones.	1910	40,168	21,973	175	366	17,649	5	82,108	
	1914	11,688	9,865	.....	110	1,713	.....	7,400
	1909	6,371	5,800	.....	14	417	40	2,052
	1904	2,522	1,907	.....	9	181	425	471
Printing and publishing.	1910	362,123	46,727	804	17,132	296,401	609	331,500	
	1914	329,210	67,583	1,388	27,135	210,007	2,107	277,206	
	1909	297,703	59,334	2,320	32,152	197,692	6,265	229,312	
	1904	166,380	54,957	3,332	21,964	75,479	7,618	93,210	
Rubber tires, tubes, and rubber goods, not elsewhere specified. ¹	1910	354,188	104,459	2,534	3,367	153,214	614	304,307	
	1914	151,927	121,144	3,473	1,605	25,664	241	93,908	
	1909	79,062	72,010	2,435	398	3,490	700	18,848	
	1904	48,381	44,726	1,984	307	1,090	268	8,666	
Sewing machines, cases and attachments.	1910	32,035	27,665	382	1,222	2,748	18	23,220	
	1914	24,220	21,066	291	219	2,434	219	19,378	
	1909	19,426	18,131	291	62	897	45	14,063	
	1904	17,162	16,301	432	66	274	69	4,694	
Shipbuilding, including boat-building.	1910	553,711	121,200	71	7,019	424,981	440	476,135	
	1914	115,333	76,599	94	5,336	30,085	219	66,275	
	1909	88,063	75,180	86	3,503	9,264	30	35,334	
	1904	78,127	73,657	87	1,785	2,367	231	17,080	

¹ Includes for 1904 some establishments manufacturing suspenders, garters, and elastic woven goods, which are included with "furnishing goods, men's" in 1910, 1914, and 1909.

TABLE 218.—HORSEPOWER IN LEADING INDUSTRIES: 1919, 1914, 1909, AND 1904—Contd.

INDUSTRY.	Cen-sus year.	PRIMARY HORSEPOWER.						Electric horse-power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines.	Water wheels and motors.	Internal-combustion engines.	Electric.	Other.		
<i>Industries with over 18,000 wage earners in 1919—Continued.</i>									
Silk goods, including throwsters.	1919	176,825	88,221	8,327	1,966	75,234	3,077	107,982	
	1914	116,924	78,302	7,605	1,762	23,748	5,507	47,401	
	1909	97,947	72,059	8,383	1,277	10,354	5,874	23,758	
	1904	71,760	56,717	6,974	987	2,398	4,739	9,521	
Slaughtering and meat packing.	1919	371,925	240,075	574	2,578	127,966	732	223,769	
	1914	260,996	213,012	15	2,833	44,059	1,077	122,956	
	1909	208,707	190,666	46	2,208	15,047	740	78,677	
	1904	119,311	114,640	311	740	3,441	179	40,538	
Soap.....	1919	33,710	24,787	40	201	8,672	10	30,649	
	1914	35,737	29,805	166	120	4,014	1,632	16,960	
	1909	25,360	24,538	255	245	1,974	1,348	12,839	
	1904	20,228	18,750	53	88	517	820	4,410	
Stoves and furnaces, including gas and oil stoves.	1919	60,774	24,800	104	2,292	33,502	76	45,270	
	1914	49,150	27,007	124	3,418	18,506	95	30,843	
	1909	45,524	32,993	259	3,060	8,966	246	18,159	
	1904	32,017	26,013	555	2,241	2,831	377	6,794	
Sugar, refining ¹	1919	52,541	52,181	-----	-----	360	-----	54,668	
	1914	49,666	45,407	-----	69	4,190	-----	24,016	
	1909	38,414	37,453	-----	15	946	-----	14,735	
Tobacco manufactures.....	1919	43,397	28,213	402	345	14,430	7	27,877	
	1914	34,937	25,853	257	680	7,966	181	17,755	
	1909	25,514	21,936	245	795	5,367	171	11,203	
	1904	24,004	21,413	257	593	1,941	400	6,515	
Turpentine and rosin.....	1919	2,303	1,343	30	884	19	27	19	
	1914	2,478	1,669	20	789	-----	-----	2	
	1909	4,129	3,877	14	231	-----	7	-----	
	1904	1,175	1,172	3	-----	-----	-----	-----	
Wire.....	1919	110,451	61,666	639	1,966	55,030	150	86,646	
	1914	83,940	68,015	903	3,429	16,463	40	39,458	
	1909	71,959	63,516	2,151	3,256	3,031	5	18,824	
	1904	25,856	23,696	1,054	759	347	-----	1,710	
Woolen, worsted, and felt goods and wool hats.	1919	487,587	323,670	78,887	1,797	80,970	2,263	239,901	
	1914	398,367	288,720	76,259	2,654	25,047	5,687	144,244	
	1909	362,209	261,364	79,250	2,077	13,783	5,735	79,223	
	1904	288,969	200,035	76,366	1,705	3,930	6,933	22,222	
<i>Other industries with over 18,000 horsepower in 1919.</i>									
Aluminum manufactures ²	1919	30,280	12,372	80	1,103	16,725	-----	27,834	
	1914	12,338	6,708	-----	900	4,689	41	9,616	
Beltling and hose, rubber.....	1919	26,299	10,860	618	406	14,415	-----	22,723	
	1914	22,985	17,518	473	66	4,938	-----	14,198	
	1909	17,471	12,340	470	1,903	2,698	-----	5,336	
	1904	12,343	10,700	950	-----	603	-----	665	
Chocolate and cocoa products.....	1919	33,440	15,273	300	1,783	16,058	26	24,552	
	1914	19,736	14,410	280	2,150	2,836	60	12,875	
	1909	10,593	9,047	215	-----	1,316	15	7,278	
	1904	5,217	4,400	120	115	460	122	2,447	
Coal-tar products ³	1919	68,342	40,698	-----	285	27,376	3	53,693	
Coffee and spice, roasting and grinding.	1919	29,750	4,595	100	961	24,050	44	28,079	
	1914	26,634	7,468	100	1,085	17,908	78	22,278	
	1909	22,384	8,825	159	902	12,205	153	22,413	
	1904	15,703	9,327	188	700	5,037	451	8,160	

¹ Figures not available for 1904.² Figures not available for 1909 and 1904. ³ Included in other classifications in 1914, 1909, and 1904.

TABLE 218.—HORSEPOWER IN LEADING INDUSTRIES: 1919, 1914, 1909, AND 1904—Contd.

INDUSTRY.	Cen-sus year.	PRIMARY HORSEPOWER.						Electric horse-power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines.	Water wheels and motors.	Internal-combustion engines.	Electric.	Other.		
<i>Other industries with over 26,000 horsepower in 1919—Continued.</i>									
Dyestuffs and extracts—natural.	1919	34,320	31,239	113	201	2,602	25	8,341	
	1914	23,290	22,032	56	455	745	2	2,750	
	1909	22,213	21,685	320	15	191	2	1,664	
	1904	17,671	17,424	196	4	20	27	659	
Explosives.	1919	51,635	33,676	1,433	40	16,486	—	30,305	
	1914	45,778	30,304	1,518	62	7,894	—	25,560	
	1909	28,601	25,558	2,689	221	133	—	14,836	
	1904	29,665	22,061	7,177	427	—	—	7,889	
Ferroalloys.	1919	37,087	32,420	—	88	4,579	—	24,035	
Glucose and starch.	1919	52,840	47,576	530	345	3,585	810	47,735	
	1914	41,630	38,063	883	102	2,456	185	29,276	
	1909	28,257	27,835	185	49	163	25	27,230	
	1904	35,986	33,406	2,180	81	169	150	12,890	
Iron and steel, bolts, nuts, washers, and rivets, not made in rolling mills.	1919	49,950	15,051	600	1,661	32,557	—	46,387	
	1914	28,897	12,004	1,190	2,040	13,051	12	18,562	
	1909	22,113	14,838	954	2,066	4,179	76	8,626	
	1904	13,825	11,582	461	821	717	244	2,888	
Lime.	1919	51,735	19,946	250	2,944	28,505	—	32,155	
	1914	39,134	25,388	316	2,122	11,253	55	12,851	
	1909	27,671	24,271	441	1,418	1,497	44	2,560	
	1904	18,198	16,742	243	608	475	40	1,281	
Malt.	1919	27,483	18,272	450	—	8,761	—	21,379	
	1914	33,304	24,318	375	65	7,736	900	21,155	
	1909	26,441	20,417	197	240	5,267	320	9,911	
	1904	20,288	17,633	631	324	1,515	185	3,298	
Mineral and soda waters.	1919	41,764	12,645	97	3,277	25,148	597	27,179	
	1914	25,164	7,935	319	5,406	11,001	443	11,883	
	1909	19,392	8,678	375	4,580	5,504	255	6,218	
	1904	12,214	7,426	414	2,370	1,760	244	1,908	
Minerals and earths, ground or otherwise treated.	1919	127,074	61,367	5,712	4,456	55,529	10	61,457	
	1914	44,069	25,811	7,277	1,476	9,503	2	11,378	
	1909	20,920	13,029	6,283	200	1,375	24	1,664	
	1904	17,325	12,061	4,414	179	290	381	305	
Oil, not elsewhere specified.	1919	30,075	21,749	4	674	7,640	8	10,892	
	1914	10,984	8,176	—	807	1,506	495	2,916	
	1909	6,157	4,791	240	272	669	185	788	
	1904	5,707	5,236	26	280	84	81	154	
Ordnance and accessories.	1919	40,652	8,300	200	187	31,965	—	38,550	
	1914	800	725	—	75	—	—	1,177	
	1909	47	—	—	10	37	—	87	
	1904	735	680	—	5	50	—	300	
Paving materials.	1919	191,543	105,581	607	4,104	81,179	72	86,730	
	1914	138,026	87,832	100	3,306	46,604	164	52,819	
	1909	5,757	5,312	—	193	252	—	1,630	
	1904	5,156	5,002	—	14	140	—	1,000	
Photographic materials.	1919	26,458	13,626	—	68	12,864	—	23,236	
	1914	14,900	12,305	—	191	2,459	5	12,803	
	1909	8,114	7,664	—	203	226	21	5,222	
	1904	8,000	3,063	26	177	301	123	1,311	
Rice, cleaning and polishing.	1919	27,382	18,881	—	697	5,762	2,042	6,637	
	1914	15,571	13,927	—	82	1,562	—	1,070	
	1909	19,519	18,252	15	137	1,115	—	1,738	
	1904	15,866	15,774	—	92	—	—	477	

¹ Included in other classifications in 1914, 1909, and 1904.

TABLE 218.—HORSEPOWER IN LEADING INDUSTRIES: 1919, 1914, 1909, AND 1904—Contd.

INDUSTRY.	Cen-sus year.	PRIMARY HORSEPOWER.					Electric horse-power owned and rented.	
		Total.	Owned.			Rented.		
			Steam engines and turbines.	Water wheels and motors.	Internal-com-bustion engines.	Electric.	Other.	
<i>Other industries with over 26,000 horsepower in 1919—Continued.</i>								
Roofing materials.....	1919	39,327	15,847	2,145	253	21,002	80	29,355
	1914	11,702	6,253	56	211	5,182	—	7,389
	1909	9,431	8,393	—	530	453	55	1,965
	1904	23,022	21,846	491	165	480	60	843
Salt.....	1919	43,187	34,309	55	981	6,706	1,136	14,771
	1914	29,007	24,900	78	779	3,250	—	7,742
	1909	27,263	25,118	108	782	1,241	14	3,425
	1904	19,434	18,556	33	439	196	210	664
Smelting and refining, copper.....	1919	321,610	186,286	7,550	425	127,349	—	184,255
	1914	194,930	147,535	10,000	825	36,620	—	88,213
	1909	158,126	114,881	12,725	1,107	29,413	—	55,229
	1904	76,524	62,735	9,400	1,274	3,115	—	12,419
Smelting and refining, lead.....	1919	52,565	24,905	350	84	24,329	2,897	32,535
	1914	29,734	20,387	—	145	9,202	—	19,737
	1909	28,951	23,090	—	35	3,829	—	12,166
	1904	25,667	22,440	1	100	3,126	—	10,107
Smelting and refining, zinc.....	1919	73,604	56,832	—	3,264	13,508	—	52,996
	1914	36,705	33,564	300	1,751	1,090	—	24,554
	1909	21,457	19,952	192	1,313	—	—	8,448
	1904	18,404	18,356	—	48	—	—	5,048
Steam packing.....	1919	26,763	20,637	—	372	5,746	8	17,835
	1914	17,254	13,031	265	522	3,347	89	9,576
	1909	11,129	8,978	—	387	1,512	252	4,042
	1904	8,846	7,633	45	181	816	171	1,066
Sugar, beet.....	1919	127,394	117,460	35	259	9,631	—	44,871
	1914	76,705	70,507	195	923	5,075	—	17,871
	1909	57,202	54,369	200	543	2,090	—	8,588
	1904	35,490	35,016	429	40	5	—	4,702
Sugar, cane ¹	1919	101,861	98,823	8	3,028	—	2	2,288
	1914	113,246	112,776	—	438	32	—	2,769
	1909	122,189	121,439	—	380	370	—	3,995
Sulphuric, nitric, and mixed acids.....	1919	30,637	12,672	25	1,755	16,185	—	28,091
	1914	24,927	17,090	—	1,325	2,381	3,925	12,994
	1909	6,494	5,083	—	371	878	162	2,230
	1904	5,416	4,810	—	161	415	—	540
Wall plaster and composition flooring.....	1919	32,356	12,457	184	1,352	18,363	—	23,856
	1914	36,626	18,730	706	2,201	14,982	27	17,084
	1909	25,892	19,095	845	1,260	4,517	175	6,167
	1904	20,054	16,161	1,580	1,084	1,059	170	1,640
Wirework, including wire rope and cable, not elsewhere specified.....	1919	29,074	10,570	495	1,266	16,705	38	22,917
	1914	21,517	9,075	393	1,546	10,391	142	14,305
	1909	20,131	10,553	930	2,492	5,642	514	8,891
	1904	18,280	12,786	714	2,154	2,000	628	5,119
Wood, turned and carved.....	1919	39,058	27,040	2,744	2,515	7,423	236	10,146
	1914	43,334	33,441	4,151	1,787	3,162	793	4,330
	1909	48,447	37,231	5,311	1,829	2,283	1,793	2,986
	1904	47,595	38,379	5,250	1,047	602	2,227	993
All other industries.....	1919	1,151,185	507,403	27,260	30,684	572,613	7,216	793,801
	1914	857,513	518,471	28,254	52,236	247,986	10,566	432,356
	1909	748,905	517,370	35,593	46,542	133,768	15,632	247,955
	1904	697,705	574,613	31,762	24,288	44,576	22,406	96,456

¹ Figures not available for 1904.

TABLE 219.—HORSEPOWER IN GEOGRAPHIC DIVISIONS AND STATES: 1869 TO 1919.

DIVISION AND STATE.	Cen- sus year.	PRIMARY HORSEPOWER.						Electric horse- power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines. ¹	Water wheels and motors.	Internal- com- bus- tion engines.	Elec- tric.	Other.		
UNITED STATES.....	1919	29,504,792	17,037,973	1,765,263	1,259,400	9,347,556	94,600	16,317,277	
	1914	22,437,072	15,501,593	1,826,443	901,905	3,897,248	120,883	8,835,970	
	1909	18,675,376	14,228,632	1,822,888	751,180	1,749,031	123,039	4,817,140	
	1904	13,487,707	10,917,502	1,647,880	289,423	441,680	101,313	1,592,475	
	1899	10,097,893	8,189,564	1,454,112	131,742	182,502	136,913	492,936	
	1889	5,938,635	4,586,080	1,255,045	8,930	.....	88,571	15,569
	1879	3,410,837	2,185,458	1,225,379	.....	.....	.....	.....
	1869	2,346,142	1,215,711	1,130,431	.....	.....	.....	.....
GEOGRAPHIC DIVISIONS:									
New England.....	1919	3,796,846	1,867,434	747,617	34,459	1,130,308	17,028	1,026,573	
	1914	3,124,329	1,872,828	757,582	49,229	410,197	25,493	1,107,677	
	1909	2,715,121	1,658,906	757,332	41,801	218,642	38,380	663,143	
	1904	2,125,815	1,342,503	659,071	18,008	55,745	47,428	187,194	
	1899	1,792,342	1,098,885	619,200	9,978	31,613	32,657	65,951	
	1889	1,156,877	634,316	497,031	545	.....	24,085	3,094
	1879	743,106	320,201	422,905	.....	.....	.....	.....
	1869	514,730	152,704	362,026	.....	.....	.....	.....
Middle Atlantic.....	1919	8,537,660	5,250,772	396,168	410,312	2,455,360	25,048	5,008,019	
	1914	6,699,576	4,730,955	454,158	372,617	1,083,618	58,228	2,024,489	
	1909	5,531,502	4,163,398	470,488	274,274	508,723	64,610	1,737,236	
	1904	4,255,264	3,369,872	514,951	121,507	141,588	107,280	638,209	
	1899	3,139,128	2,552,354	410,173	45,751	74,266	50,594	201,201	
	1889	1,939,042	1,567,822	331,964	3,044	.....	36,212	6,096
	1879	1,066,409	709,719	356,690	.....	.....	.....	.....
	1869	756,420	380,350	376,070	.....	.....	.....	.....
East North Central.....	1919	7,735,137	4,361,731	252,829	428,493	2,659,498	32,586	4,883,500	
	1914	5,421,435	3,826,501	217,164	332,269	1,016,014	29,457	2,522,405	
	1909	4,382,070	3,496,184	208,411	283,450	373,876	18,119	1,297,447	
	1904	3,120,369	2,716,307	194,871	90,481	95,188	23,522	432,102	
	1899	2,401,808	2,127,110	171,077	45,244	30,093	27,684	124,520	
	1889	1,327,784	1,153,118	155,245	2,578	.....	16,843	3,839
	1879	808,033	650,386	157,647	.....	.....	.....	.....
	1869	530,810	380,984	149,826	.....	.....	.....	.....
West North Central.....	1919	1,594,112	801,743	92,753	102,124	596,189	1,303	920,196	
	1914	1,238,988	814,714	94,057	60,970	258,506	3,341	510,553	
	1909	1,101,990	839,927	80,330	57,434	115,002	3,297	266,534	
	1904	753,700	628,287	63,059	25,156	32,976	3,622	80,029	
	1899	605,098	615,208	51,999	17,905	14,519	5,467	31,476	
	1889	410,231	345,697	60,005	832	.....	3,697	1,266
	1879	220,647	149,524	71,123	.....	.....	.....	.....
	1869	126,532	89,274	37,258	.....	.....	.....	.....
South Atlantic.....	1919	2,795,094	1,594,200	173,108	130,579	887,201	4,006	1,388,053	
	1914	2,274,785	1,599,018	176,864	72,429	417,927	8,547	710,639	
	1909	1,832,001	1,436,744	183,158	30,441	171,146	4,512	343,393	
	1904	1,221,040	1,034,544	137,018	10,677	28,914	3,887	100,465	
	1899	851,050	705,517	124,830	6,894	5,196	8,673	24,237	
	1889	408,009	319,801	145,397	778	.....	2,033	708
	1879	294,186	148,618	145,608	.....	.....	.....	.....
	1869	209,814	70,058	139,729	.....	.....	.....	.....
East South Central.....	1919	1,415,577	1,055,152	25,007	22,893	311,133	1,387	460,143	
	1914	1,157,367	975,428	23,627	16,180	141,419	713	247,815	
	1909	1,036,560	955,201	29,315	12,270	38,580	1,194	108,409	
	1904	753,928	716,924	24,193	3,714	8,060	1,037	28,757	
	1899	513,425	480,552	25,107	2,209	3,833	1,724	9,619	
	1889	304,291	208,100	34,850	299	.....	1,036	260
	1879	152,907	110,085	42,822	.....	.....	.....	.....
	1869	108,772	68,154	40,618	.....	.....	.....	.....

¹ Figures include "other" owned power as follows: 1909, 29,293 horsepower; 1904, 92,154 horsepower; 1899, 49,985 horsepower; 1889, 4,784 horsepower.

TABLE 219.—HORSEPOWER IN GEOGRAPHIC DIVISIONS AND STATES: 1869 TO 1919—Con.

DIVISION AND STATE.	Cen- sus year.	PRIMARY HORSEPOWER.						Electric horse- power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines.	Water wheels and motors.	In- ternal com- bus- tion engines.	Elec- tric.	Other.		
GEOG. DIVISIONS—Con.									
West South Central.....	1910	1,185,989	876,632	3,446	81,260	218,558	6,093	350,953	
	1914	965,500	829,099	4,549	55,275	75,547	1,030	163,239	
	1909	873,350	808,153	3,108	29,291	31,807	991	78,883	
	1904	555,717	539,507	3,236	4,308	8,273	393	20,152	
	1899	397,471	388,179	2,760	1,956	3,092	584	8,778	
	1889	130,992	131,772	4,552	377	—	291	651	
	1879	57,613	52,991	4,622	—	—	—	—	
	1869	45,756	42,239	3,517	—	—	—	—	
Mountain.....	1910	636,579	399,940	15,650	9,971	259,619	1,387	351,214	
	1914	460,278	326,841	23,511	6,871	102,293	762	190,525	
	1909	400,766	307,010	21,543	4,188	66,656	1,069	113,984	
	1904	241,825	208,326	18,319	2,296	12,105	779	35,419	
	1899	123,012	99,153	18,161	1,237	4,031	430	8,945	
	1889	47,391	40,126	6,779	111	—	375	172	
	1879	17,031	8,319	8,712	—	—	—	—	
	1869	16,838	9,546	7,292	—	—	—	—	
Pacific.....	1910	1,757,798	820,363	58,679	33,309	829,685	5,762	968,026	
	1914	1,094,814	616,209	74,031	20,065	382,697	1,812	452,568	
	1909	802,016	563,049	63,173	12,037	162,299	1,458	208,101	
	1904	460,049	361,232	32,562	7,156	55,740	3,359	70,088	
	1899	274,559	222,600	30,798	3,628	14,429	3,100	21,589	
	1889	148,018	125,331	19,222	366	—	3,099	493	
	1879	50,905	35,615	15,290	—	—	—	—	
	1869	36,470	22,375	14,095	—	—	—	—	
NEW ENGLAND:									
Maine.....	1910	547,028	173,855	274,528	4,481	92,749	1,415	104,796	
	1914	487,211	176,792	258,314	4,582	46,344	1,179	107,700	
	1909	459,599	168,774	258,392	3,933	27,203	1,297	54,266	
	1904	343,627	127,285	203,094	3,063	8,061	2,121	26,587	
	1899	259,232	89,477	158,788	2,178	7,572	1,217	9,659	
	1889	150,317	42,835	104,602	10	—	2,870	191	
	1879	100,476	20,759	79,717	—	—	—	—	
	1869	79,573	9,463	70,108	—	—	—	—	
New Hampshire.....	1910	349,138	147,240	115,375	1,676	84,601	246	151,718	
	1914	344,093	101,001	128,592	1,841	49,171	3,483	102,612	
	1909	293,991	139,158	128,011	1,288	21,209	4,375	45,351	
	1904	218,344	102,930	100,274	1,395	5,013	8,732	12,301	
	1899	200,975	90,267	105,711	371	2,004	2,422	3,471	
	1889	116,758	46,988	68,842	3	—	955	42	
	1879	87,750	18,595	69,155	—	—	—	—	
	1869	77,078	8,787	68,291	—	—	—	—	
Vermont.....	1910	185,005	51,381	68,807	2,950	61,090	768	73,388	
	1914	172,037	61,560	80,400	2,301	27,477	899	47,161	
	1909	159,445	64,667	79,062	2,160	12,917	639	21,233	
	1904	140,616	57,025	70,237	1,483	4,550	1,321	7,238	
	1899	126,124	44,455	77,421	1,120	1,444	1,684	2,173	
	1889	98,520	23,625	74,041	10	—	844	34	
	1879	63,314	11,088	52,226	—	—	—	—	
	1869	51,322	6,425	44,897	—	—	—	—	
Massachusetts.....	1910	1,720,878	904,932	189,302	11,227	551,521	12,896	975,795	
	1914	1,306,722	970,506	189,825	20,242	200,339	15,810	582,971	
	1909	1,175,071	835,500	180,516	18,326	109,996	24,637	402,492	
	1904	938,007	694,455	183,427	7,487	27,073	25,565	91,012	
	1899	798,061	578,083	181,907	4,074	13,409	18,585	32,823	
	1889	515,570	341,042	158,932	289	—	15,307	2,327	
	1879	309,759	171,397	138,362	—	—	—	—	
	1869	184,356	78,502	105,854	—	—	—	—	
Rhode Island.....	1910	321,016	189,280	20,203	3,188	97,957	1,328	163,913	
	1914	209,854	199,170	33,649	2,493	31,572	2,970	91,224	
	1909	220,740	175,332	31,417	3,300	13,697	2,994	42,130	
	1904	181,017	141,082	29,281	1,247	5,815	3,642	15,477	
	1899	153,619	118,330	28,171	427	2,969	3,722	4,895	
	1889	112,654	83,528	27,197	18	—	1,911	295	
	1879	63,575	41,335	22,240	—	—	—	—	
	1869	42,027	23,540	18,481	—	—	—	—	

TABLE 219.—HORSEPOWER IN GEOGRAPHIC DIVISIONS AND STATES: 1869 TO 1919—Con.

DIVISION AND STATE.	Cen- sus year.	PRIMARY HORSEPOWER.						Electric horse- power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines.	Water wheels and motors.	Internal- combust- ion engines.	Elec- tric.	Other.		
NEW ENGLAND—Continued.									
Connecticut.....	1919	664,691	340,746	70,252	10,928	242,300	375	396,963	
	1914	453,812	303,799	66,802	17,770	64,204	1,147	176,000	
	1909	400,275	275,439	73,934	12,844	33,620	4,438	97,671	
	1904	304,204	219,723	66,808	3,393	8,233	6,047	34,579	
	1899	250,331	178,270	67,211	1,608	4,215	5,027	12,925	
	1889	163,028	96,298	63,417	215	—	3,008	205	
	1879	118,232	57,027	61,205	—	—	—	—	
	1869	80,374	25,979	54,395	—	—	—	—	
MIDDLE ATLANTIC:									
New York.....	1919	2,936,530	1,299,548	343,023	113,415	1,170,977	9,507	1,693,838	
	1914	2,356,655	1,165,731	302,932	118,330	644,824	34,838	1,043,132	
	1909	1,987,662	1,084,460	395,618	99,899	389,945	27,740	680,976	
	1904	1,516,592	855,275	446,134	44,288	95,284	75,611	222,111	
	1899	1,099,931	605,760	335,411	16,221	47,768	31,771	77,598	
	1889	774,373	514,701	231,959	1,000	—	25,723	2,447	
	1879	454,143	234,795	210,348	—	—	—	—	
	1869	334,363	126,107	208,256	—	—	—	—	
New Jersey.....	1919	1,146,744	781,434	12,528	40,830	305,702	6,190	724,153	
	1914	793,063	642,608	15,901	30,592	94,605	9,357	352,206	
	1909	612,293	529,848	19,676	20,867	33,157	8,745	182,475	
	1904	436,274	390,095	18,197	9,070	10,603	8,309	69,301	
	1899	322,503	288,956	20,161	3,284	4,126	5,976	15,857	
	1889	180,042	158,802	17,543	135	—	3,562	487	
	1879	99,858	72,792	27,066	—	—	—	—	
	1869	58,139	32,307	25,832	—	—	—	—	
Pennsylvania.....	1919	4,454,386	3,169,700	40,617	256,067	978,621	9,201	2,600,028	
	1914	3,549,588	2,922,616	45,325	223,895	344,189	14,033	1,520,151	
	1909	2,921,547	2,549,090	55,194	133,508	145,621	18,134	864,785	
	1904	2,302,398	2,124,502	50,020	68,209	35,701	23,366	340,797	
	1899	1,710,694	1,597,638	54,601	26,246	22,302	15,847	107,746	
	1889	984,627	894,319	82,462	919	—	6,927	2,102	
	1879	512,408	402,132	110,276	—	—	—	—	
	1869	363,018	221,982	141,982	—	—	—	—	
EAST NORTH CENTRAL:									
Ohio.....	1919	2,897,497	1,782,512	10,115	147,030	945,341	12,490	1,704,724	
	1914	1,993,080	1,541,212	14,443	156,481	273,814	7,130	823,000	
	1909	1,583,155	1,363,720	16,107	103,801	93,592	5,935	417,844	
	1904	1,116,932	1,034,780	18,149	35,101	23,159	5,743	144,467	
	1899	783,695	734,973	17,848	14,230	8,768	7,846	42,157	
	1889	417,078	382,678	27,342	1,183	—	5,880	1,705	
	1879	261,143	223,502	38,641	—	—	—	—	
	1869	174,328	129,577	44,740	—	—	—	—	
Indiana.....	1919	1,095,912	521,446	10,162	189,271	373,089	1,344	652,754	
	1914	709,703	430,304	9,905	66,691	200,882	1,721	450,357	
	1909	633,377	449,127	7,893	106,105	65,548	1,704	233,103	
	1904	380,758	338,863	9,685	21,171	9,082	1,007	33,582	
	1899	325,910	297,216	11,964	12,295	2,704	1,680	7,903	
	1889	190,575	172,540	16,181	176	—	1,078	323	
	1879	131,770	109,960	21,810	—	—	—	—	
	1869	100,369	76,851	23,518	—	—	—	—	
Illinois.....	1919	1,660,918	997,338	11,586	55,782	500,241	5,971	1,174,567	
	1914	1,305,980	947,949	12,310	61,500	272,602	11,500	681,474	
	1909	1,013,071	839,692	12,691	37,025	117,007	6,716	398,021	
	1904	741,555	660,687	15,030	12,310	41,078	11,541	165,205	
	1899	559,347	511,879	11,614	8,758	12,371	14,025	40,235	
	1889	285,727	262,274	15,992	708	—	6,753	930	
	1879	144,288	126,843	17,445	—	—	—	—	
	1869	86,044	73,091	12,963	—	—	—	—	
Michigan.....	1919	1,202,128	592,911	40,346	19,695	540,757	8,419	818,271	
	1914	730,383	486,771	31,711	19,503	188,702	3,606	311,966	
	1909	598,288	405,536	42,019	13,088	74,270	2,475	133,064	
	1904	440,890	376,198	39,342	10,634	12,411	2,405	39,970	
	1899	368,497	319,980	36,520	5,603	4,204	2,121	12,088	
	1889	256,081	214,825	38,986	237	—	—	577	
	1879	164,747	130,352	34,395	—	—	—	—	
	1869	105,861	70,950	34,895	—	—	—	—	

TABLE 219.—HORSEPOWER IN GEOGRAPHIC DIVISIONS AND STATES: 1869 TO 1919—Con.

DIVISION AND STATE.	Cen-	Total.	PRIMARY HORSEPOWER.					Electric horse- power owned and rented.	
			Owned.			Rented.			
			Steam engines and turbines.	Water wheels and motors.	Internal com- bus- tion engines.	Elec- tric.	Other.		
EAST NORTH CENTRAL—Con.									
Wisconsin.....	1919	878,682	467,524	180,620	16,706	209,470	4,362	473,184	
	1914	682,339	420,065	148,795	28,004	79,984	5,491	255,688	
	1909	554,179	378,169	129,731	19,531	25,459	1,239	114,725	
	1904	440,234	305,789	112,665	11,356	8,558	1,866	48,898	
	1899	364,380	263,062	93,122	4,358	2,426	1,412	3,137	
	1889	178,373	120,806	56,744	274	—	549	295	
	1879	108,085	60,729	45,356	—	—	—	—	
	1869	64,223	30,509	33,714	—	—	—	—	
WEST NORTH CENTRAL:									
Minnesota.....	1919	473,957	198,186	73,661	33,848	167,965	297	255,119	
	1914	358,737	206,144	73,341	7,454	71,224	574	121,018	
	1909	297,670	199,802	59,570	7,174	30,297	827	52,212	
	1904	220,934	168,115	38,245	4,710	8,594	1,270	14,427	
	1899	180,124	146,826	24,932	3,624	3,769	973	6,300	
	1889	111,537	83,630	27,300	126	—	1,481	280	
	1879	53,880	25,191	28,689	—	—	—	—	
	1869	20,139	7,085	13,054	—	—	—	—	
Iowa.....	1919	242,946	119,442	3,862	7,080	112,486	126	166,285	
	1914	190,049	125,340	5,538	8,868	50,054	249	101,527	
	1909	155,384	122,029	6,411	8,025	18,463	456	40,736	
	1904	111,065	101,418	6,531	4,486	5,107	523	8,663	
	1899	106,664	91,570	7,315	4,524	2,013	642	6,222	
	1889	77,615	64,737	12,618	70	—	190	194	
	1879	54,221	33,858	20,363	—	—	—	—	
	1869	39,547	25,298	14,249	—	—	—	—	
Missouri.....	1919	477,303	269,657	3,386	22,049	181,556	655	287,572	
	1914	391,385	283,490	3,203	18,321	84,362	2,009	181,981	
	1909	340,467	280,494	3,738	11,159	44,056	1,020	106,941	
	1904	247,361	223,879	3,727	4,960	13,965	1,330	37,671	
	1899	189,117	173,802	3,113	3,279	5,024	3,299	12,725	
	1889	144,567	137,758	4,755	457	—	1,597	618	
	1879	80,749	72,587	8,162	—	—	—	—	
	1869	55,062	48,418	6,644	—	—	—	—	
North Dakota ¹	1919	17,791	10,060	260	1,981	5,490	—	6,773	
	1914	14,062	9,627	299	1,198	2,356	82	3,800	
	1909	13,196	10,170	530	1,304	1,164	28	1,698	
	1904	9,373	8,619	322	645	281	6	477	
	1899	7,351	5,932	506	759	127	27	171	
	1889	3,587	3,008	540	12	—	27	2	
South Dakota ¹	1919	22,191	8,360	307	3,282	10,227	15	11,130	
	1914	16,324	8,972	574	2,304	4,414	—	4,632	
	1909	17,666	12,257	939	2,784	1,683	3	2,084	
	1904	11,154	8,497	1,069	1,397	181	10	339	
	1899	11,775	9,294	1,099	1,270	100	12	234	
	1889	5,552	4,468	1,052	32	—	—	3	
Nebraska.....	1919	125,814	66,449	4,940	8,203	46,177	45	72,749	
	1914	89,285	58,066	5,674	6,724	18,794	27	32,813	
	1909	64,466	44,882	7,436	4,408	7,630	210	15,942	
	1904	46,372	34,025	7,221	2,035	2,364	127	8,126	
	1899	41,825	31,176	7,513	1,919	866	351	2,398	
	1889	23,430	17,070	6,123	58	—	179	49	
	1879	8,394	2,990	5,495	—	—	—	—	
	1869	3,311	1,865	1,446	—	—	—	—	
Kansas.....	1919	234,110	129,589	6,337	25,731	72,288	165	120,568	
	1914	179,146	123,075	6,328	22,041	20,802	900	64,482	
	1909	213,141	170,293	7,706	22,580	11,809	753	46,921	
	1904	90,441	83,134	6,544	6,923	2,484	356	10,326	
	1899	68,242	56,608	7,521	2,530	1,420	183	3,426	
	1889	42,943	38,026	7,617	77	—	223	110	
	1879	21,079	13,468	7,611	—	—	—	—	
	1869	8,149	6,300	1,789	—	—	—	—	

¹ The figures for Dakota Territory for the censuses preceding the separation of North Dakota and South Dakota are as follows: 1879, total primary horsepower, 2,224, steam power, 1,421, and water power, 803; 1889, total primary horsepower, 324, steam power, 248, and water power, 76.

TABLE 219.—HORSEPOWER IN GEOGRAPHIC DIVISIONS AND STATES: 1869 TO 1919—Cont.

DIVISION AND STATE.	Cen-sus year.	PRIMARY HORSEPOWER.						Electric horse-power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines.	Water wheels and motors.	Internal-combustion engines.	Electric.	Other.		
SOUTH ATLANTIC:									
Delaware.....	1919	85,150	59,743	4,448	1,607	19,307	45	44,528	
	1914	64,403	48,207	4,507	1,905	9,705	79	29,544	
	1909	52,779	42,266	5,195	706	4,502	50	17,910	
	1904	49,490	42,542	5,280	412	1,092	161	5,764	
	1899	40,134	32,808	5,399	315	605	917	1,870	
	1889	26,412	21,557	4,671	80	.....	104	104
	1879	15,428	10,643	4,735	.....	.....	.....	.....
	1869	8,533	4,313	4,220	.....	.....	.....	.....
Maryland.....	1919	406,768	177,100	9,007	65,403	155,031	131	313,811	
	1914	263,753	196,199	9,935	13,822	42,243	1,551	117,707	
	1909	218,244	182,395	12,074	5,736	17,108	931	44,921	
	1904	165,449	145,627	10,777	4,377	3,300	1,359	18,823	
	1899	132,052	116,115	10,415	3,139	733	1,650	4,174	
	1889	73,335	56,548	15,033	175	.....	979	212
	1879	51,259	33,216	18,043	.....	.....	.....	.....
	1869	32,422	13,961	18,401	.....	.....	.....	.....
District of Columbia....	1919	33,079	10,340	666	2,103	19,980	10	21,943	
	1914	24,775	15,230	540	2,568	6,407	30	9,522	
	1909	16,563	12,212	775	1,073	2,433	70	4,527	
	1904	12,592	10,567	710	311	996	8	1,761	
	1899	10,255	8,777	369	338	100	671	348	
	1889	11,374	10,422	810	91	.....	51	70
	1879	3,143	2,263	880	.....	.....	.....	.....
	1869	1,889	789	1,100	.....	.....	.....	.....
Virginia.....	1919	419,946	256,766	39,087	9,007	114,818	208	188,455	
	1914	337,567	249,044	44,722	6,659	37,142	.....	102,013
	1909	283,928	221,341	45,155	3,664	13,356	412	42,043	
	1904	176,998	144,552	26,946	1,715	4,403	382	12,687	
	1899	136,696	110,607	23,550	748	822	969	5,617	
	1889	82,343	45,418	36,054	78	.....	193	105
	1879	57,174	19,710	37,404	.....	.....	.....	.....
	1869	49,612	8,410	41,202	.....	.....	.....	.....
West Virginia.....	1919	328,053	217,155	9,411	38,972	62,917	198	155,224	
	1914	278,504	216,976	5,554	28,537	27,152	285	66,676	
	1909	217,496	184,591	10,817	10,705	5,330	263	28,543	
	1904	138,573	124,735	6,404	6,669	776	94	5,199	
	1899	91,894	85,139	5,425	1,045	27	298	454	
	1889	55,452	44,802	10,542	33	.....	75	5
	1879	37,910	28,456	9,454	.....	.....	.....	.....
	1869	27,381	17,136	10,195	.....	.....	.....	.....
North Carolina.....	1919	549,878	308,242	42,026	6,556	107,384	70	200,546	
	1914	508,085	331,132	41,181	5,379	128,600	1,733	103,161	
	1909	378,556	272,979	41,928	2,350	60,041	1,251	86,002	
	1904	216,622	183,213	28,382	2,102	2,423	502	5,553	
	1899	154,467	123,328	29,241	388	804	616	2,733	
	1889	73,301	41,360	31,812	42	.....	87	44
	1879	45,088	15,025	30,063	.....	.....	.....	.....
	1869	33,152	6,941	26,211	.....	.....	.....	.....
South Carolina.....	1919	395,556	214,719	40,714	2,472	137,561	90	174,148	
	1914	340,224	207,480	42,413	2,063	83,754	4,514	111,988	
	1909	276,378	195,452	38,497	1,264	41,180	35	67,620	
	1904	197,470	157,612	31,097	239	8,451	80	32,102	
	1899	112,697	81,283	27,586	323	185	3,320	6,061	
	1889	45,673	29,103	16,399	97	.....	74	8
	1879	25,868	11,995	13,873	.....	.....	.....	.....
	1869	14,032	4,537	10,395	.....	.....	.....	.....
Georgia.....	1919	436,608	243,642	20,906	5,003	157,508	2,839	194,263	
	1914	357,403	245,811	27,829	7,032	76,458	273	103,140	
	1909	298,241	240,800	28,748	3,380	23,800	1,423	44,264	
	1904	220,419	183,721	28,304	6,032	6,404	1,208	15,556	
	1899	136,499	111,465	22,729	365	6,008	272	2,698	
	1889	54,064	55,108	28,380	119	.....	457	157
	1879	51,169	21,102	30,067	.....	.....	.....	.....
	1869	38,243	10,826	27,417	.....	.....	.....	.....

TABLE 219.—HORSEPOWER IN GEOGRAPHIC DIVISIONS AND STATES: 1869 TO 1919—Con.

DIVISION AND STATE.	Cen-	sus-	PRIMARY HORSEPOWER.					Electric horse- power owned and rented.
			Total.	Owned.		Rented.		
				Steam engines and turbines.	Water wheels and motors.	In- ternal- com- bus- tion engines.	Elec- tric.	Other.
SOUTH ATLANTIC—Con.								
Florida.....	1919	139,456	111,487	243	4,706	22,055	365	35,135
	1914	100,071	88,939	183	4,464	6,406	79	12,888
	1900	89,816	84,708	171	1,497	3,353	87	7,563
	1904	43,413	41,975	118	320	1,000	.....	2,960
	1899	36,356	35,905	116	173	162	.....	302
	1889	16,055	15,483	496	63	.....	13	3
	1879	7,147	6,208	939	.....	.....	.....	.....
	1869	3,700	3,172	528	.....	.....	.....	.....
EAST SOUTH CENTRAL:								
Kentucky.....	1919	247,573	175,210	8,758	10,623	56,808	1,174	94,380
	1914	238,314	206,871	3,968	6,581	20,382	512	49,168
	1900	230,224	208,506	5,377	4,724	11,314	303	31,268
	1904	174,625	163,719	4,603	1,938	3,874	491	10,690
	1899	144,161	136,378	4,247	1,096	1,722	718	3,415
	1889	82,408	75,590	6,271	223	.....	324	100
	1879	54,020	45,917	9,012	.....	.....	.....	.....
	1869	39,568	31,928	7,640	.....	.....	.....	.....
Tennessee.....	1919	338,814	227,206	7,534	5,718	98,274	82	131,411
	1914	286,857	216,156	9,395	3,435	57,858	13	83,107
	1900	242,277	215,342	9,777	1,863	14,066	639	29,586
	1904	175,780	162,041	9,995	1,084	2,230	427	6,586
	1899	130,318	116,753	11,078	593	1,370	524	2,193
	1889	84,273	68,551	15,451	54	.....	217	106
	1879	51,952	39,388	18,564	.....	.....	.....	.....
	1869	37,981	18,467	19,514	.....	.....	.....	.....
Alabama.....	1919	628,376	468,746	13,534	3,595	142,412	89	199,523
	1914	445,762	375,114	9,621	4,469	56,400	158	98,189
	1900	357,837	329,007	13,923	4,616	10,104	187	39,928
	1904	293,185	281,653	9,518	472	1,448	94	10,114
	1899	173,208	162,690	9,421	376	359	362	3,421
	1889	102,282	91,603	10,382	14	.....	283	51
	1879	27,576	15,779	11,797	.....	.....	.....	.....
	1869	18,751	7,740	11,011	.....	.....	.....	.....
Mississippi.....	1919	200,814	183,990	181	2,957	13,644	42	34,829
	1914	186,434	177,287	643	1,095	6,779	30	17,351
	1900	206,222	202,346	238	1,077	2,496	65	7,627
	1904	110,338	109,508	77	220	508	25	1,367
	1899	65,738	64,731	361	144	382	120	590
	1889	35,328	32,362	2,746	8	.....	212	3
	1879	18,450	15,001	3,449	.....	.....	.....	.....
	1869	12,472	10,019	2,453	.....	.....	.....	.....
WEST SOUTH CENTRAL:								
Arkansas.....	1919	214,194	183,400	706	6,620	21,493	1,975	35,591
	1914	177,208	167,378	703	2,079	5,956	102	13,340
	1900	173,088	168,204	674	1,374	2,581	255	7,417
	1904	109,509	107,858	584	482	484	101	2,191
	1899	79,560	78,244	734	328	201	55	480
	1889	38,313	36,368	1,778	7	.....	160	31
	1879	15,733	13,709	2,024	.....	.....	.....	.....
	1869	7,616	6,101	1,545	.....	.....	.....	.....
Louisiana.....	1919	388,605	332,154	60	13,928	41,091	1,372	84,204
	1914	355,103	328,718	1,447	3,020	16,580	428	50,006
	1900	346,652	333,771	75	3,496	9,077	233	27,139
	1904	251,963	247,885	268	961	2,778	73	6,752
	1899	190,182	187,814	313	462	1,401	192	2,060
	1889	29,730	29,444	66	213	.....	7	454
	1879	11,340	11,256	90	.....	.....	.....	.....
	1869	25,066	24,024	142	.....	.....	.....	.....
Oklahoma ¹	1919	139,983	79,707	275	24,133	35,435	433	54,605
	1914	97,308	70,803	250	15,976	10,088	205	23,760
	1900	71,139	66,643	472	8,676	5,281	67	7,887
	1904	20,008	27,753	109	989	597	160	910
	1899	11,672	11,151	156	200	.....	65	12
	1889	585	510	75	.....	.....	.....	.....

¹ Includes power for Indian Territory in 1904 and prior censuses.

TABLE 219.—HORSEPOWER IN GEOGRAPHIC DIVISIONS AND STATES: 1869 TO 1919—Con.

DIVISION AND STATE.	Cen-sus year.	PRIMARY HORSEPOWER.						Electric horse-power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines.	Water wheels and motors.	Internal-combustion engines.	Electric.	Other.		
W. SOUTH CENTRAL—Con.									
Texas.....	1919	443,207	281,371	2,405	36,579	120,539	2,343	176,553	
	1914	335,791	202,200	2,053	28,300	42,943	295	76,133	
	1909	232,471	249,535	1,887	15,745	14,868	436	30,450	
	1904	164,637	156,011	2,277	1,876	4,414	59	10,299	
	1899	116,157	110,970	1,557	968	2,300	272	3,217	
	1889	68,364	65,450	2,633	157	—	124	166	
	1879	30,534	28,026	2,508	—	—	—	—	
	1869	13,044	11,214	1,830	—	—	—	—	
MOUNTAIN:									
Montana.....	1919	153,491	42,099	7,906	1,484	101,910	2	100,207	
	1914	91,071	52,918	10,135	820	27,798	—	38,109	
	1909	90,402	49,654	13,646	223	26,504	375	27,301	
	1904	46,736	32,441	10,315	74	3,898	8	7,979	
	1899	43,079	32,618	9,717	85	1,196	63	3,184	
	1889	2,805	2,105	906	17	—	17	43	
	1879	1,498	544	954	—	—	—	—	
	1869	1,617	822	795	—	—	—	—	
Idaho.....	1919	73,876	53,304	1,751	578	18,207	36	29,889	
	1914	50,326	38,264	1,074	431	9,928	29	16,120	
	1909	42,804	35,529	2,407	242	4,006	20	8,409	
	1904	16,987	15,145	1,078	127	537	100	1,702	
	1899	5,649	4,010	1,005	28	6	—	6	
	1889	1,999	975	1,024	—	—	—	2	
	1879	1,082	546	1,136	—	—	—	—	
	1869	606	311	295	—	—	—	—	
Wyoming.....	1919	17,889	8,255	301	1,718	7,500	5	9,240	
	1914	10,004	6,925	537	1,366	1,176	—	1,691	
	1909	7,628	6,467	465	182	514	—	801	
	1904	3,604	3,088	382	88	46	—	132	
	1899	3,820	3,237	534	42	7	—	87	
	1889	1,824	1,008	216	—	—	—	5	
	1879	755	717	38	—	—	—	—	
	1869	344	310	34	—	—	—	—	
Colorado.....	1919	206,309	145,417	1,184	2,180	57,323	199	86,036	
	1914	162,828	126,608	6,000	2,075	27,349	127	57,278	
	1909	154,615	135,750	1,426	1,464	15,874	101	35,944	
	1904	121,907	118,660	2,004	317	3,705	71	15,730	
	1899	43,434	39,883	1,403	519	1,187	352	1,890	
	1889	32,676	30,641	1,723	36	—	276	58	
	1879	5,802	3,953	1,849	—	—	—	—	
	1869	2,225	1,433	792	—	—	—	—	
New Mexico.....	1919	17,200	12,595	381	920	3,304	—	5,178	
	1914	12,408	10,301	23	775	1,309	—	2,017	
	1909	15,465	11,781	74	365	3,245	—	4,586	
	1904	5,948	5,417	149	114	203	65	233	
	1899	3,658	3,433	163	64	8	—	8	
	1889	1,325	1,402	323	—	—	10	—	
	1879	1,359	427	632	—	—	—	—	
	1869	911	252	659	—	—	—	—	
Arizona.....	1919	103,958	77,138	200	1,773	24,817	—	44,903	
	1914	54,697	44,312	70	795	8,018	602	23,118	
	1909	39,140	34,212	120	1,285	3,314	200	15,100	
	1904	21,412	19,338	267	1,302	105	250	4,821	
	1899	8,537	7,728	400	371	38	—	534	
	1889	526	457	329	—	—	40	—	
	1879	530	370	160	—	—	—	—	
	1869	90	80	10	—	—	—	—	
Utah.....	1919	93,942	46,900	3,558	908	41,275	1,145	58,721	
	1914	59,536	34,020	3,494	470	21,552	—	34,018	
	1909	42,947	29,084	2,097	226	10,592	48	15,402	
	1904	19,397	13,145	3,252	59	2,941	—	4,272	
	1899	12,674	7,616	3,300	89	1,588	15	2,829	
	1889	5,064	2,530	2,492	10	—	32	64	
	1879	4,089	1,154	3,535	—	—	—	—	
	1869	2,500	381	2,109	—	—	—	—	

POWER USED IN MANUFACTURING.

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TABLE 219.—HORSEPOWER IN GEOGRAPHIC DIVISIONS AND STATES: 1869 TO 1919—Con.

DIVISION AND STATE.	Cen- sus year.	PRIMARY HORSEPOWER.						Electric horse- power owned and rented.	
		Total.	Owned.			Rented.			
			Steam engines and turbines.	Water wheels and motors.	Internal- combustion engines.	Elec- tric.	Other.		
MOUNTAIN—Continued.									
Nevada.....	1919	19,874	14,142	195	344	5,193	4	11,040	
	1914	18,748	13,433	909	139	4,263	4	17,574	
	1909	7,765	4,533	399	201	2,307	325	6,441	
	1904	2,834	1,092	782	125	550	285	550	
	1899	1,501	628	893	39	1	.....	1
	1889	372	318	6	48	.....	.....	.....
	1879	716	608	108	.....	.....	.....	.....
	1869	8,545	6,007	2,538	.....	.....	.....	.....
PACIFIC:									
Washington.....	1919	687,436	453,306	7,723	6,123	215,921	4,363	278,155	
	1914	389,567	201,923	9,306	3,102	84,953	223	112,485	
	1909	297,807	257,249	8,065	1,494	30,951	138	43,615	
	1904	168,342	150,798	4,642	493	11,650	759	15,290	
	1899	87,601	77,821	6,853	189	2,562	176	3,137	
	1889	42,579	37,709	4,851	3	.....	16	63
	1879	4,395	3,210	1,185	.....	.....	.....	.....
	1869	2,823	1,411	1,412	.....	.....	.....	.....
Oregon.....	1919	304,346	165,801	43,252	2,166	92,576	551	118,187	
	1914	214,222	116,591	57,275	1,289	39,010	57	48,739	
	1909	175,019	112,244	47,438	428	14,811	98	20,802	
	1904	81,348	55,512	20,660	371	4,727	78	5,223	
	1899	60,005	37,980	19,263	195	2,243	318	2,690	
	1889	32,508	22,736	9,280	2	.....	490	37
	1879	13,589	4,334	9,255	.....	.....	.....	.....
	1869	8,277	2,471	5,806	.....	.....	.....	.....
California.....	1919	706,016	211,256	7,704	25,020	521,188	848	572,284	
	1914	491,025	207,695	7,450	15,614	258,734	1,532	291,344	
	1909	329,100	193,556	7,670	10,115	116,537	1,222	143,684	
	1904	210,350	154,922	7,260	6,292	39,363	2,522	49,575	
	1899	126,953	106,790	4,680	3,244	9,624	2,608	15,762	
	1889	72,931	64,886	5,091	301	.....	2,593	393
	1879	32,921	28,071	4,850	.....	.....	.....	.....
	1869	25,370	18,493	6,877	.....	.....	.....	.....