

Chapter II.—GENERAL SUMMARY.

General comparison for the United States.—The following table gives the principal items reported for manufactures at the censuses of 1914, 1909, 1904, and 1899, together with the percentages of increase from census to census. The statistics in this and all other tables in this volume are confined to continental United States and therefore include no data for Alaska, Hawaii, Porto Rico, or other possessions.

Table 1	MANUFACTURING INDUSTRIES.				PER CENT OF INCREASE. ¹		
	1914	1909	1904	1899	1909-1914	1904-1909	1899-1904
Number of establishments	275,791	268,491	216,180	207,514	2.7	24.2	4.2
Persons engaged	8,268,153	7,678,578	6,213,612	(²)	7.6	23.6	(²)
Proprietors and firm members	262,599	273,265	225,673	(²)	-3.9	21.1	(²)
Salaried employees	964,217	790,287	519,556	364,120	22.0	52.1	42.7
Wage earners (average number)	7,036,337	6,615,046	5,468,383	4,712,763	6.4	21.0	16.0
Primary horsepower	22,547,574	18,675,376	13,487,707	10,097,893	20.7	38.5	33.6
Capital	\$22,790,979,937	\$18,428,269,706	\$12,675,580,874	\$8,975,256,496	23.7	45.4	41.2
Salaries and wages	5,366,249,584	4,365,612,851	3,184,884,275	2,389,132,440	22.9	37.1	33.3
Salaries	1,287,616,951	938,574,967	574,439,323	380,771,321	37.2	63.4	50.9
Wages	4,078,332,433	3,427,037,884	2,610,444,953	2,008,361,119	19.0	31.3	30.0
Paid for contract work	198,876,826	178,645,635	145,322,516	(²)	11.3	22.9	(²)
Rent and taxes (including internal revenue)	582,039,665	457,883,110	313,964,825	(²)	27.1	(²)	(²)
Cost of materials	14,368,088,831	12,142,790,878	8,500,207,810	6,575,851,491	18.3	42.9	29.3
Value of products	24,246,434,724	20,672,051,870	14,799,902,563	11,406,926,701	17.3	39.7	29.7
Value added by manufacture (value of products less cost of materials)	9,878,345,893	8,529,260,992	6,293,694,753	4,831,075,210	15.8	35.5	30.3

¹ A minus sign (-) denotes decrease. ² Figures not available. ³ Exclusive of internal revenue.

In 1914 the United States had 275,791 manufacturing establishments, which gave employment during the year to an average of 8,263,153 persons, of whom 7,036,337 were wage earners. These manufacturing establishments paid \$5,366,249,584 in salaries and wages, and turned out products to the value of \$24,246,434,724, to produce which materials costing \$14,368,088,831 were consumed. The value added by manufacture, namely, the difference between the cost of materials and the total value of products, was \$9,878,345,893.

The table above shows that the manufacturing industries of the United States as a whole experienced the most rapid growth during the five-year period 1904 to 1909. The increase for the five years from 1909 to 1914 was not as great as during either of the other periods covered by the table. The decrease of 3.9 per cent shown for proprietors and firm members from 1909 to 1914 is due to the increase in the number of establishments owned by corporations. The officials of corporations are included in the total for "salaried employees," and of course no proprietors or firm members are reported for such establishments. It would be improper to infer that manufactures increased in volume during the three five-year periods covered by the table to the full extent indicated by the increase in value of materials consumed or in the value of products, since the increase shown in these items is certainly due in part to the increase that has taken place in the price of commodities. It may be presumed that the quantity of products increased somewhat more rapidly than the number of wage earners; this might be expected from the fact that the amount of primary power increased much faster than the number of wage earners; in other words, each wage earner, on the average, had greater assistance from mechanical power in 1914 than during the years covered by prior censuses.

Comparison with earlier censuses.—In 1810 the Secretary of the Treasury made a report on the condition of manufactures in the United States and estimated that the value of products for 1809 exceeded \$120,000,000. An estimate based on the returns of the census of 1810 placed the value of the annual product at \$198,613,471. Further efforts to secure statistics of manufactures were made in 1820 and 1840, but the results were more or less unsatisfactory. In 1830 no such attempt was made. The census of 1850 was the first to present fairly complete statistics for manufactures. Each census from that time to 1890 was based in part on returns for the preceding calendar year and in part on returns for other twelve-month periods, mainly ending during the census year itself. The last four censuses cover principally returns for the preceding calendar year or for twelve-month periods ending within that year. In general, in this report, the statistics for all censuses are referred to by the year preceding that in which the census was taken.

The statistics of manufactures secured at the decennial censuses from 1850 to 1900, inclusive, covered the neighborhood, hand, and building industries, as well as the factory industries, while the reports for 1904, 1909, and 1914 were confined to factory industries. The statistics for 1899, obtained at the decennial census of 1900, although originally taken on the broader basis, have, for the purpose of comparison with later censuses, been reduced to the factory basis by eliminating as far as possible the neighborhood, hand, and building trades, but no such elimination is possible with respect to the earlier censuses. For this reason the statistics for years prior to 1899 are not entirely comparable with those for 1904, 1909, and 1914. Nevertheless, for the purpose of showing in a rough way the movement during each decade since 1850 the summary in Table 2 is presented.

Two sets of figures are given in this table for 1899, the one including the neighborhood, hand, and building trades, in order to make the data comparable with those for preceding censuses, and the other excluding them in order to make the figures comparable with those for later censuses. The values and wages for 1869 have been reduced to a gold basis, inasmuch as the figures as reported would, because of the inflation of the currency at that time, exaggerate the increase from 1859 to 1869, and understate the increase from 1869 to 1879.

Table 2	Number of establishments.	Wage earners (average number).	Capital.	Wages.
FACTORIES AND HAND AND NEIGHBORHOOD INDUSTRIES.				
1849 (census of 1850).....	123, 025	957, 059	\$533, 245, 351	\$236, 755, 464
1859 (census of 1860).....	140, 433	1, 811, 246	\$1, 009, 855, 715	\$378, 878, 906
Per cent of increase, 1849 to 1859.....	14.1	37.0	89.4	60.0
1869 (census of 1870) (gold value).....	252, 148	2, 053, 996	\$1, 694, 567, 015	\$620, 467, 474
Per cent of increase, 1859 to 1869.....	79.6	56.6	67.8	63.8
1879 (census of 1880).....	253, 852	2, 732, 595	\$2, 790, 272, 606	\$947, 953, 795
Per cent of increase, 1869 to 1879.....	0.7	33.0	64.7	52.8
1889 (census of 1890).....	355, 405	4, 251, 535	\$6, 525, 050, 759	\$1, 891, 219, 696
Per cent of increase, 1879 to 1889.....	40.0	55.6	133.8	99.5
1899 (census of 1900).....	512, 191	5, 306, 143	\$9, 813, 834, 390	\$2, 320, 938, 168
Per cent of increase, 1889 to 1899.....	44.1	24.8	50.4	22.7
FACTORIES, EXCLUDING HAND AND NEIGHBORHOOD INDUSTRIES.				
1899 (census of 1900).....	207, 514	4, 712, 763	\$8, 975, 256, 496	\$2, 008, 361, 119
1904 (census of 1905).....	216, 180	5, 468, 383	\$12, 675, 580, 874	\$2, 610, 444, 953
Per cent of increase, 1899 to 1904.....	4.2	16.0	41.2	30.0
1909 (census of 1910).....	268, 491	6, 615, 046	\$18, 428, 269, 706	\$3, 427, 037, 884
Per cent of increase, 1904 to 1909.....	24.2	21.0	45.4	31.3
Per cent of increase, 1899 to 1909.....	29.4	40.4	105.3	70.6
1914 (census of 1915).....	275, 791	7, 036, 337	\$22, 790, 979, 937	\$4, 078, 332, 433
Per cent of increase, 1909 to 1914.....	2.7	6.4	23.7	10.0
Per cent of increase, 1904 to 1914.....	27.6	28.7	79.8	56.3

Table 2—Continued.	Cost of materials.	Value of products.	Value added by manufacture.
FACTORIES AND HAND AND NEIGHBORHOOD INDUSTRIES.			
1849 (census of 1850).....	\$555,123,882	\$1,019,106,616	\$463,982,734
1859 (census of 1860).....	\$1,031,605,092	\$1,885,861,676	\$854,256,584
Per cent of increase, 1849 to 1859.....	85.8	85.0	84.1
1869 (census of 1870) (gold value).....	\$1,990,741,794	\$3,385,860,354	\$1,395,118,560
Per cent of increase, 1859 to 1869.....	93.0	79.5	63.3
1879 (census of 1880).....	\$3,396,823,549	\$5,369,579,191	\$1,972,755,642
Per cent of increase, 1869 to 1879.....	70.6	58.6	41.4
1889 (census of 1890).....	\$5,162,013,878	\$9,372,378,843	\$4,210,364,965
Per cent of increase, 1879 to 1889.....	52.0	74.5	113.4
1899 (census of 1900).....	\$7,343,627,875	\$13,000,149,159	\$5,656,521,284
Per cent of increase, 1889 to 1899.....	42.3	38.7	34.3
FACTORIES, EXCLUDING HAND AND NEIGHBORHOOD INDUSTRIES.			
1899 (census of 1900).....	\$6,575,851,491	\$11,406,926,701	\$4,831,075,210
1904 (census of 1905).....	\$8,500,207,810	\$14,793,902,563	\$6,293,694,753
Per cent of increase, 1899 to 1904.....	29.3	29.7	30.3
1909 (census of 1910).....	\$12,142,790,878	\$20,672,051,870	\$8,529,260,992
Per cent of increase, 1904 to 1909.....	42.9	39.7	35.5
Per cent of increase, 1899 to 1909.....	84.7	81.2	76.5
1914 (census of 1915).....	\$14,368,088,831	\$24,246,434,724	\$9,878,345,893
Per cent of increase, 1909 to 1914.....	18.3	17.3	15.8
Per cent of increase, 1904 to 1914.....	69.0	63.9	57.0

Governmental manufacturing establishments.—Although the statistics for establishments operated by the Federal Government are not included in the general tables of this report nor in the totals for manufacturing industries, reports were secured from these establishments for 1914 and 1909, and the most important of the statistics thus secured are presented in the following table:

INDUSTRY.	Census year.	GOVERNMENTAL ESTABLISHMENTS, 1914 AND 1909.					
		Number of establishments.	Wage earners (average number).	Wages.	Cost of materials.	Value of products.	Primary horse-power.
All industries.....	1914	43	35,236	\$30,155,362	\$29,188,223	\$67,412,017	74,515
	1909	40	32,519	28,215,976	21,752,072	55,919,143	47,787
Clothing, men's, including shirts.	1914	6	1,686	1,181,710	3,079,903	4,474,566	374
	1909	5	1,085	536,262	1,884,280	2,643,157	311
Firearms and ammunition.....	1914	3	3,478	2,553,304	5,461,913	8,284,489	5,461
	1909	4	3,623	2,449,802	3,788,188	6,661,343	4,411
Ordnance and accessories.....	1914	6	6,081	5,435,555	6,152,626	12,738,984	13,892
	1909	3	5,024	4,530,622	3,602,804	8,598,032	5,251
Printing and publishing.....	1914	9	7,474	7,430,849	2,350,767	10,839,447	5,038
	1909	8	7,647	7,638,689	2,296,513	10,895,364	3,884
Shipbuilding.....	1914	13	15,785	13,091,667	11,103,113	29,217,265	47,319
	1909	12	14,540	12,670,524	9,526,109	25,872,033	32,525
All other industries ¹	1914	6	732	462,267	1,039,901	1,857,266	2,431
	1909	8	600	390,077	654,178	1,249,214	1,405

¹ Includes the following industries, with establishments as indicated: For 1914, bags, other than paper, 1; explosives, 2; gas, illuminating and heating, 1; hardware, 1; and instruments, professional and scientific, 1. For 1909, bags, other than paper, 1; cement, 1; explosives, 2; foundry and machine-shop products, 2; gas, illuminating and heating, 1; and instruments, professional and scientific, 1.

Power laundries.—Many laundries are now conducted according to factory methods. The industry has developed rapidly, large amounts of capital now being invested and many wage earners being employed. It, therefore, was decided to make a canvass of the industry for the censuses of 1909 and 1914. The statistics, however, are not included in the general tables nor in the totals for manufacturing industries, but are shown separately in a special report. For ready reference, comparative totals for each state are presented in Table 4 for 1914 and 1909. The figures cover all laundries using mechanical power of any kind.

Table 4

STATE.	Census year.	POWER LAUNDRIES: 1914 AND 1909.						
		Number of establishments.	Wage earners (average number).	Primary horse-power.	Capital.	Wages.	Cost of materials.	Amount received for work done.
United States.....	1914 1909	6,097 5,186	130,641 109,484	174,881 123,477	\$98,055 68,935	\$59,483 44,827	\$26,919 17,696	\$142,503 104,680
Alabama.....	1914 1909	41 38	1,388 1,108	1,362 1,041	785 546	481 343	256 147	1,361 909
Arizona.....	1914 1909	17 13	335 283	326 298	267 193	195 153	77 74	426 369
Arkansas.....	1914 1909	53 45	832 741	1,092 900	577 568	339 266	148 123	836 684
California.....	1914 1909	532 321	10,416 8,038	13,503 8,961	9,618 6,296	6,213 4,471	2,262 1,612	13,949 9,542
Colorado.....	1914 1909	94 99	1,759 1,833	2,723 1,895	1,441 1,271	849 905	364 290	2,163 1,981
Connecticut.....	1914 1909	127 95	1,913 1,441	3,178 1,852	1,455 871	894 585	408 246	2,108 1,416
Delaware.....	1914 1909	12 15	326 222	335 235	253 103	92 72	43 30	243 187
District of Columbia.....	1914 1909	18 17	1,217 993	1,071 998	971 699	441 348	182 126	1,024 796
Florida.....	1914 1909	45 28	864 571	1,120 528	613 461	356 196	182 77	946 474
Georgia.....	1914 1909	43 42	1,776 1,332	1,773 1,180	1,045 655	572 384	336 192	1,632 1,007
Idaho.....	1914 1909	36 24	442 357	1,033 489	487 252	246 179	141 95	593 394
Illinois.....	1914 1909	461 448	11,004 9,705	13,472 10,780	8,402 5,540	5,474 4,317	2,639 1,722	12,846 10,050
Indiana.....	1914 1909	174 163	3,750 2,901	4,739 3,746	2,295 1,236	1,521 1,021	709 371	3,697 2,448
Iowa.....	1914 1909	176 181	2,518 2,123	3,873 2,941	1,785 1,262	1,151 806	588 429	2,882 2,064
Kansas.....	1914 1909	150 138	1,607 1,490	2,664 1,958	1,181 1,027	684 566	325 286	1,696 1,486
Kentucky.....	1914 1909	75 73	1,873 1,554	2,655 2,139	1,117 730	699 519	301 202	1,666 1,209
Louisiana.....	1914 1909	28 25	1,243 1,036	1,197 1,109	1,102 796	437 364	232 132	1,190 852
Maine.....	1914 1909	92 78	930 816	1,741 1,085	685 536	381 298	182 116	939 736
Maryland.....	1914 1909	54 41	1,715 1,278	2,211 1,091	1,164 643	594 349	259 156	1,392 994
Massachusetts.....	1914 1909	391 280	7,771 5,958	11,382 6,802	4,696 2,951	3,721 2,583	1,392 904	8,662 5,755
Michigan.....	1914 1909	234 219	4,902 3,729	6,457 4,071	3,172 2,009	2,161 1,328	928 622	5,115 3,262
Minnesota.....	1914 1909	188 158	3,494 2,916	4,264 2,919	2,708 1,821	1,640 1,133	855 514	4,100 2,856
Mississippi.....	1914 1909	27 30	607 529	680 821	348 332	215 163	122 81	540 441
Missouri.....	1914 1909	177 171	5,899 5,438	7,941 5,727	4,333 3,408	2,609 2,136	1,350 892	6,316 4,904

CENSUS OF MANUFACTURES: 1914.

Table 4—Continued.

STATE.	Census year.	POWER LAUNDRIES: 1914 AND 1909.						
		Number of establishments.	Wage earners (average number).	Primary horse-power.	Capital.	Wages.	Cost of materials.	Amount received for work done.
Montana.....	1914	42	819	999	\$954	\$599	\$226	\$1,267
	1909	26	652	851	677	458	154	935
Nebraska.....	1914	74	1,303	1,779	995	613	372	1,517
	1909	76	1,110	1,510	872	437	256	1,198
Nevada.....	1914	12	124	247	191	88	40	216
	1909	5	105	149	166	82	27	165
New Hampshire.....	1914	74	760	1,269	441	325	132	729
	1909	61	608	988	303	224	80	519
New Jersey.....	1914	142	3,642	5,103	2,877	1,649	656	3,591
	1909	112	2,984	3,917	2,137	1,186	440	2,779
New Mexico.....	1914	15	240	396	205	105	50	280
	1909	8	146	146	164	65	20	156
New York.....	1914	614	13,751	19,288	10,354	6,062	2,822	14,305
	1909	508	12,578	12,637	7,317	5,212	1,857	11,447
North Carolina.....	1914	59	1,165	1,859	799	362	241	1,026
	1909	43	812	1,000	425	211	108	560
North Dakota.....	1914	30	409	725	553	208	143	593
	1909	34	434	606	445	188	102	548
Ohio.....	1914	296	7,265	10,909	5,066	3,157	1,362	7,823
	1909	253	5,893	7,431	3,803	2,259	872	5,389
Oklahoma.....	1914	101	1,416	1,786	986	653	360	1,670
	1909	93	1,101	1,484	782	488	201	1,198
Oregon.....	1914	78	1,745	2,338	1,669	962	385	2,147
	1909	58	1,457	1,585	991	685	264	1,570
Pennsylvania.....	1914	396	10,410	12,602	8,160	4,236	1,848	10,225
	1909	385	9,639	10,730	6,685	3,487	1,449	8,332
Rhode Island.....	1914	66	1,192	1,829	684	544	231	1,261
	1909	53	1,076	1,368	612	461	158	1,019
South Carolina.....	1914	23	517	604	266	147	96	422
	1909	24	373	591	184	87	52	269
South Dakota.....	1914	26	400	520	353	190	113	477
	1909	28	386	519	336	168	82	423
Tennessee.....	1914	67	2,580	3,107	1,558	909	438	2,297
	1909	63	2,149	1,863	1,284	674	298	1,643
Texas.....	1914	185	4,605	6,063	3,443	2,118	1,072	5,522
	1909	127	3,073	3,195	2,005	1,294	471	3,220
Utah.....	1914	36	1,070	1,926	1,214	580	322	1,367
	1909	22	738	969	500	343	143	794
Vermont.....	1914	41	378	518	234	146	63	362
	1909	32	299	349	144	102	32	244
Virginia.....	1914	71	1,694	1,918	1,055	524	286	1,454
	1909	57	1,351	1,199	836	414	173	1,003
Washington.....	1914	192	3,298	4,022	2,839	1,895	655	4,252
	1909	172	3,264	3,084	2,166	1,758	546	3,815
West Virginia.....	1914	44	827	1,305	690	358	135	786
	1909	43	679	1,048	415	243	102	582
Wisconsin.....	1914	150	2,265	3,175	1,795	940	526	2,353
	1909	147	2,014	2,373	1,380	737	332	1,840
Wyoming.....	1914	18	185	322	174	143	64	238
	1909	14	171	319	100	79	38	217