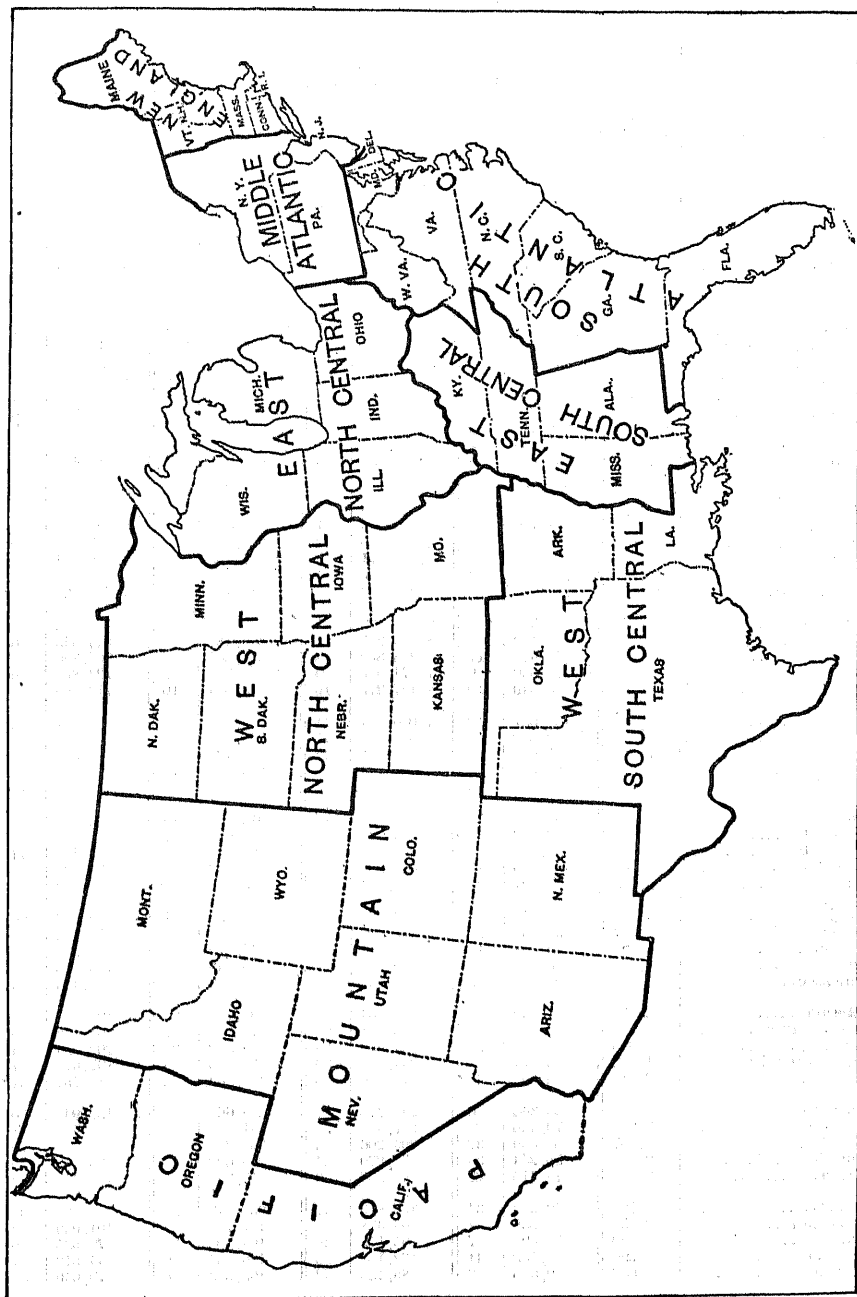


Chapter IV.—STATES AND GEOGRAPHIC DIVISIONS.

Table 223 presents general totals for all manufacturing industries in each state and geographic division, as reported at the censuses of 1919, 1914, 1909, and 1904. More detailed statistics for the divisions and states are given, for 1919, in Table 224. The following map shows the geographic distribution of the states.



Rank of geographic divisions and states in manufacturing industries.—Table 187 shows for 1919 the rank of each geographic division and state with respect to average number of wage earners, cost of materials, value of products, and value added by manufacture. The states are arranged in the order of their rank with respect to value of manufactured products.

TABLE 187.—RANK OF GEOGRAPHIC DIVISIONS AND STATES IN MANUFACTURING INDUSTRIES: 1919.

DIVISION AND STATE.	Number of establishments.	WAGE EARNERS.		COST OF MATERIALS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Rank.	Amount.	Rank.	Amount.	Rank.	Amount.	Rank.
Expressed in thousands.									
United States.....	290,105	9,096,372	\$37,376,380	\$62,418,079	\$25,041,699
GEOGRAPHIC DIVISIONS.									
Middle Atlantic.....	88,360	2,872,653	1	11,424,080	1	19,854,773	1	8,450,677	1
East North Central.....	61,332	2,395,618	2	10,621,687	2	17,737,480	2	7,115,793	2
New England.....	25,528	1,351,389	3	3,951,908	3	7,183,071	3	3,251,163	3
West North Central.....	20,166	999,635	5	3,778,125	4	5,187,065	4	1,308,940	4
South Atlantic.....	20,976	817,212	4	2,590,265	5	4,455,152	5	1,888,887	5
Pacific.....	19,567	435,179	6	1,368,242	6	3,157,610	6	1,280,368	6
West South Central.....	13,009	285,244	8	1,547,994	7	2,277,861	7	720,867	7
East South Central.....	14,655	329,226	7	977,824	8	1,642,391	8	661,567	8
Mountain.....	7,612	109,216	9	610,239	9	922,676	9	312,437	9
STATES.									
New York.....	49,330	1,228,130	1	4,943,214	1	8,807,005	1	3,923,791	1
Pennsylvania.....	27,973	1,135,937	2	4,210,409	2	7,315,703	2	3,105,294	2
Illinois.....	18,593	653,114	5	3,488,271	3	5,425,245	3	1,936,974	4
Ohio.....	16,125	739,733	3	2,911,948	4	4,100,369	4	2,188,361	3
Massachusetts.....	11,906	713,836	4	2,260,713	6	4,011,182	5	1,750,469	5
New Jersey.....	11,057	508,686	6	2,270,473	5	3,672,065	6	1,401,292	7
Michigan.....	8,305	471,242	7	1,919,243	7	3,466,188	7	1,546,915	6
California.....	11,942	243,692	11	1,218,859	8	1,981,205	8	762,346	8
Indiana.....	7,916	277,580	9	1,174,959	9	1,898,733	9	723,893	9
Wisconsin.....	10,393	263,949	10	1,127,275	10	1,846,984	10	719,769	10
Missouri.....	8,592	195,037	12	1,056,457	11	1,594,298	11	337,754	12
Connecticut.....	4,872	292,672	8	685,937	15	1,392,432	12	703,495	11
Minnesota.....	6,225	115,623	19	883,060	12	1,218,130	13	365,040	15
Texas.....	5,724	107,522	20	701,171	14	969,969	14	298,825	18
North Carolina.....	5,999	157,659	13	526,906	17	943,808	15	416,902	13
Kansas.....	3,474	61,049	31	750,088	13	913,067	16	163,579	28
Maryland.....	4,937	140,342	14	549,347	16	873,945	17	324,598	17
Washington.....	4,918	132,028	16	443,178	20	809,623	18	366,415	14
Rhode Island.....	2,466	139,665	15	415,989	23	747,323	19	331,334	16
Iowa.....	5,683	80,551	27	520,241	18	745,473	20	225,232	22
Georgia.....	4,803	123,441	17	440,490	21	693,237	21	252,747	20
Louisiana.....	2,617	98,265	22	431,404	22	676,190	22	244,780	21
Virginia.....	5,603	119,362	18	371,541	24	643,512	23	271,971	19
Nebraska.....	2,884	36,521	35	480,774	19	590,042	24	115,268	33
Tennessee.....	4,589	95,167	23	344,767	25	556,253	25	211,486	23
Alabama.....	3,654	107,159	21	300,604	27	492,731	26	192,067	26
West Virginia.....	2,785	83,036	26	279,941	28	471,971	27	201,030	25
Maine.....	2,995	88,651	24	254,569	29	450,822	28	202,263	24
New Hampshire.....	1,499	83,074	25	239,528	30	407,205	29	167,677	27
Oklahoma.....	2,445	29,593	38	312,600	26	401,363	30	88,757	37
Kentucky.....	3,957	99,340	30	235,715	31	395,660	31	159,945	30
South Carolina.....	2,004	79,450	28	227,986	32	381,453	32	153,467	31
Oregon.....	2,707	58,559	32	206,206	33	366,783	33	160,677	29
Colorado.....	2,631	85,254	36	174,876	34	275,622	34	100,762	35
Florida.....	2,582	74,415	29	92,680	40	213,327	35	120,647	32
Arkansas.....	3,123	49,954	34	102,813	37	200,313	36	97,600	34
Mississippi.....	2,455	57,590	33	96,678	38	197,747	37	101,060	36
Vermont.....	1,790	33,491	37	65,179	39	168,108	38	79,935	39
Montana.....	1,290	17,160	41	122,152	35	160,614	39	44,512	41
Delaware.....	608	29,935	39	85,433	42	165,073	40	79,640	38

TABLE 187.—RANK OF GEOGRAPHIC DIVISIONS AND STATES IN MANUFACTURING INDUSTRIES: 1919—Continued.

DIVISION AND STATE.	Number of establishments.	WAGE EARNERS.		COST OF MATERIALS.		VALUE OF PRODUCTS.		VALUE ADDED BY MANUFACTURE.	
		Average number.	Rank.	Amount.	Rank.	Amount.	Rank.	Amount.	Rank.
Expressed in thousands.									
STATES—continued.									
Utah.....	1,160	18,868	40	\$110,154	36	\$156,933	41	\$46,779	40
Arizona.....	480	8,528	44	92,645	41	120,769	42	28,124	45
Wyoming.....	576	6,634	45	42,250	40	81,445	43	39,195	42
Idaho.....	922	13,917	42	43,949	44	80,511	44	36,562	44
District of Columbia.....	595	10,482	43	30,940	47	68,826	45	37,886	43
South Dakota.....	1,414	6,382	46	42,986	45	62,171	46	19,185	46
North Dakota.....	894	4,472	48	44,490	43	57,374	47	12,884	47
Nevada.....	166	3,119	49	16,490	48	22,874	48	6,384	49
New Mexico.....	387	5,736	47	7,727	49	17,850	49	10,129	48

The five leading states in respect to value of manufactured products in 1919 were New York, Pennsylvania, Illinois, Ohio, and Massachusetts. These states together contained 33.3 per cent of the total population of the United States in 1920, but reported 49 per cent of the total number of wage earners in manufacturing industries in 1919, 49.2 per cent of the value of manufactured products, and 51.5 per cent of the value added by manufacture.

Sixteen states including the District of Columbia held a higher rank in value of manufactured products in 1919 than in 1914, and 16 a lower rank, while 17 had the same rank in both years.

States grouped according to value of products.—In Table 188 the states are arranged in six groups, according to the value of their manufactured products in 1919. The table also gives the value of products reported for each state in 1914, 1909, and 1904, and the percentage which the total value of products for each group formed of the United States total at each of the four censuses.

TABLE 188.—STATES GROUPED BY VALUE OF PRODUCTS: 1919, 1914, 1909, AND 1904.

STATES GROUPED ACCORDING TO VALUE OF PRODUCT IN 1919.	1919	1914	1909	1904
United States.....	\$62,418,078,773	\$24,246,434,724	\$20,672,051,870	\$14,793,902,563
\$1,000,000,000 AND OVER.				
Total.....	47,780,408,285	18,026,856,110	15,847,555,766	11,431,433,734
New York.....	8,867,004,906	3,814,061,114	3,369,490,192	2,488,345,579
Pennsylvania.....	7,315,702,867	2,832,340,437	2,626,742,034	1,955,551,332
Illinois.....	5,425,244,694	2,247,322,810	1,919,276,594	1,410,342,129
Ohio.....	5,100,308,728	1,782,808,270	1,437,035,817	969,811,857
Massachusetts.....	4,011,181,532	1,641,373,047	1,490,529,386	1,124,032,051
New Jersey.....	3,672,064,987	1,406,633,414	1,145,529,076	774,369,025
Michigan.....	3,466,188,483	1,086,162,432	985,109,169	429,120,060
California.....	1,981,204,701	712,800,764	529,760,528	367,218,494
Indiana.....	1,898,753,387	739,795,021	579,075,046	393,954,405
Wisconsin.....	1,846,084,307	695,172,002	560,305,538	411,139,681
Missouri.....	1,594,208,338	637,952,128	674,111,070	439,548,957
Connecticut.....	1,362,431,020	545,471,617	496,271,695	389,082,001
Minnesota.....	1,218,129,735	493,354,136	409,419,021	307,355,073

TABLE 188.—STATES GROUPED BY VALUE OF PRODUCTS: 1919, 1914, 1909, AND 1904—Contd.

STATES GROUPED ACCORDING TO VALUE OF PRODUCT IN 1919—continued.	1919	1914	1909	1904
\$500,000,000 to \$1,000,000,000.				
Total.....	\$9, 190, 068, 209	\$3, 393, 606, 402	\$2, 916, 493, 582	\$2, 005, 328, 084
Texas.....	999, 995, 706	361, 270, 363	272, 895, 635	150, 528, 389
North Carolina.....	943, 807, 949	289, 411, 987	216, 656, 055	142, 520, 776
Kansas.....	913, 667, 094	323, 234, 191	325, 101, 002	198, 244, 992
Maryland.....	873, 944, 774	377, 749, 078	315, 689, 150	243, 375, 996
Washington.....	809, 622, 984	245, 326, 456	220, 716, 421	128, 821, 067
Rhode Island.....	747, 322, 858	270, 545, 873	280, 343, 797	202, 109, 583
Iowa.....	745, 472, 697	310, 749, 974	259, 237, 637	160, 572, 313
Georgia.....	693, 237, 096	253, 370, 511	292, 863, 262	151, 040, 455
Louisiana.....	676, 189, 770	255, 312, 648	223, 948, 638	186, 379, 592
Virginia.....	643, 511, 621	264, 039, 041	219, 793, 838	148, 856, 525
Nebraska.....	590, 042, 498	221, 615, 848	199, 048, 579	151, 918, 220
Tennessee.....	556, 253, 162	212, 071, 489	180, 216, 548	137, 960, 476
\$300,000,000 to \$500,000,000.				
Total.....	3, 373, 987, 386	1, 336, 511, 151	1, 132, 199, 268	794, 956, 159
Alabama.....	492, 730, 895	178, 797, 633	145, 961, 638	109, 169, 922
West Virginia.....	471, 970, 877	163, 511, 782	161, 949, 526	99, 040, 676
Maine.....	459, 821, 783	209, 450, 148	176, 029, 393	141, 020, 197
New Hampshire.....	407, 294, 334	182, 843, 863	164, 581, 049	123, 610, 964
Oklahoma.....	401, 362, 860	162, 065, 663	53, 082, 405	24, 450, 107
Kentucky.....	395, 060, 417	230, 248, 969	223, 751, 497	139, 753, 968
South Carolina.....	381, 452, 984	138, 891, 202	113, 235, 945	79, 370, 262
Oregon.....	360, 782, 627	109, 761, 951	93, 061, 845	55, 525, 123
\$200,000,000 to \$300,000,000.				
Total.....	689, 262, 004	301, 892, 199	277, 859, 338	204, 306, 683
Colorado.....	275, 622, 335	136, 839, 321	130, 044, 312	109, 443, 969
Florida.....	213, 326, 811	81, 112, 291	72, 889, 659	50, 298, 290
Arkansas.....	200, 312, 858	83, 940, 587	74, 946, 367	53, 864, 394
\$100,000,000 to \$200,000,000.				
Total.....	975, 294, 769	448, 224, 641	387, 222, 617	295, 120, 440
Mississippi.....	197, 746, 987	79, 550, 095	80, 555, 410	57, 451, 445
Vermont.....	168, 108, 072	76, 990, 974	68, 369, 824	63, 083, 611
Montana.....	166, 064, 518	84, 446, 136	73, 271, 793	66, 415, 452
Delaware.....	165, 073, 009	66, 034, 066	52, 839, 619	41, 169, 276
Utah.....	156, 933, 071	87, 112, 300	61, 989, 277	38, 926, 464
Arizona.....	120, 769, 112	64, 089, 510	59, 256, 094	28, 083, 192
LESS THAN \$100,000,000.				
Total.....	391, 058, 030	139, 344, 821	110, 739, 299	62, 756, 563
Wyoming.....	81, 445, 394	11, 223, 415	6, 249, 078	3, 523, 260
Idaho.....	80, 510, 749	28, 453, 797	22, 399, 860	8, 768, 743
District of Columbia.....	68, 826, 570	28, 978, 211	25, 289, 130	18, 359, 159
South Dakota.....	62, 170, 782	24, 138, 566	17, 870, 135	13, 086, 333
North Dakota.....	57, 373, 622	21, 147, 431	19, 137, 596	10, 217, 914
Nevada.....	22, 874, 311	16, 083, 304	11, 889, 828	3, 096, 274
New Mexico.....	17, 856, 602	9, 320, 067	7, 897, 750	5, 705, 880
PERCENTAGE EACH GROUP OF STATES CONTRIBUTED TO TOTAL VALUE OF PRODUCTS.				
\$1,000,000,000 and over.....	76.7	76.8	76.7	77.3
\$500,000,000 to \$1,000,000,000.....	14.7	14.0	14.1	13.6
\$300,000,000 to \$500,000,000.....	5.4	5.5	5.5	5.4
\$200,000,000 to \$300,000,000.....	1.1	1.2	1.3	1.4
\$100,000,000 to \$200,000,000.....	1.6	1.8	1.9	2.0
Less than \$100,000,000.....	0.6	0.6	0.5	0.4

Totals for Northern, Southern, and Western states.—Tables 223 and 224 give statistics for the nine geographic divisions separately, but do not give figures for the three great sections of the country—the North, the South, and the West. Table 189 gives for the three great sections, North, South, and West, the most important items, the per cent of increase and the per cent each section forms of the United States total, for the four censuses from 1904 to 1919, inclusive.

The states included in these three groups are those embraced in the geographic divisions, as follows: North—New England, Middle Atlantic, East North Central, and West North Central; South—South Atlantic, East South Central, and West South Central; West—the Mountain and the Pacific. (See Table 223, p. 568.)

TABLE 189.—COMPARATIVE SUMMARY—NORTH, SOUTH, AND WEST: 1919, 1914, 1909, AND 1904.

SECTION.	Number of establishments.	Wage earners (average number).	Primary horse-power.	Capital.	Wages.	Cost of materials.	Value of products.	Value added by manufacture.
UNITED STATES:								
1919.....	290,105	9,096,372	29,504,792	\$44,466,594	\$10,533,100	\$37,376,380	\$62,418,079	\$25,041,699
1914.....	275,791	7,036,247	22,437,072	22,790,980	4,078,332	14,368,089	24,246,435	9,878,346
1909.....	268,491	6,615,046	18,675,376	18,428,270	3,427,038	12,142,791	20,672,052	8,523,261
1904.....	216,180	5,468,383	13,487,707	12,675,581	2,610,445	8,500,298	14,793,903	6,293,695
THE NORTH—								
1919.....	204,386	7,120,295	21,663,755	35,495,020	8,440,471	29,775,816	49,902,388	20186,572
1914.....	197,754	5,558,049	16,484,328	18,121,973	3,306,549	11,531,547	19,554,773	8,023,226
1909.....	193,850	5,197,138	13,730,683	14,728,325	2,772,143	9,912,122	16,827,427	6,915,305
1904.....	163,224	4,364,209	10,255,148	10,366,702	2,138,681	6,985,816	12,134,078	5,148,263
THE SOUTH—								
1919.....	58,540	1,431,682	5,396,600	6,092,619	1,369,759	5,122,083	8,375,405	3,253,322
1914.....	55,752	1,161,570	4,397,652	3,045,715	527,175	1,916,986	3,186,205	1,269,219
1909.....	55,808	1,129,307	3,741,911	2,502,490	444,218	1,508,299	2,637,117	1,128,818
1904.....	38,154	887,310	2,530,685	1,664,687	320,430	1,049,090	1,853,596	804,505
THE WEST—								
1919.....	27,179	544,395	2,444,377	2,878,955	723,170	2,478,481	4,080,286	1,601,805
1914.....	22,285	316,628	1,555,092	1,623,292	244,605	919,556	1,505,457	585,901
1909.....	18,833	288,601	1,202,782	1,197,455	210,680	722,370	1,207,508	485,138
1904.....	14,802	216,867	701,874	644,192	148,234	465,302	806,229	340,927
Per cent of increase:¹								
United States—								
1914-1919.....	5.2	29.3	31.5	95.1	158.3	160.1	157.4	153.5
1909-1914.....	2.7	6.4	20.1	23.7	19.0	18.3	17.3	15.8
1904-1909.....	24.2	21.0	38.5	45.4	31.3	42.9	39.7	35.5
The North—								
1914-1919.....	3.4	28.1	31.4	95.9	155.3	158.2	155.5	151.6
1909-1914.....	2.0	6.9	20.1	23.0	19.3	16.3	16.2	16.0
1904-1909.....	18.8	19.1	33.9	42.1	29.6	41.9	38.7	34.3
The South—								
1914-1919.....	5.0	23.3	22.7	100.0	159.8	167.2	162.9	156.3
1909-1914.....	-0.1	2.9	17.5	21.7	18.7	27.1	20.8	12.4
1904-1909.....	46.3	27.3	47.9	50.3	36.0	43.8	42.3	40.3
The West—								
1914-1919.....	22.0	71.9	57.2	77.4	195.6	169.5	171.0	173.4
1909-1914.....	18.3	9.7	29.3	35.0	16.1	27.3	24.7	20.8
1904-1909.....	27.2	33.1	71.4	85.9	45.1	55.2	49.8	42.3
Per cent of United States total:								
The North—								
1919.....	70.5	78.3	73.4	79.8	80.1	79.7	80.0	80.6
1914.....	71.7	79.0	73.5	79.5	81.1	80.3	80.7	81.2
1909.....	72.2	78.6	73.5	79.9	80.9	81.6	81.4	81.1
1904.....	75.5	79.8	76.0	81.8	81.9	82.2	82.0	81.8
The South—								
1919.....	20.2	15.7	18.3	13.7	13.0	13.7	13.4	13.0
1914.....	20.2	16.5	19.6	13.4	12.9	13.3	13.1	12.8
1909.....	20.8	17.1	20.0	13.6	13.0	12.4	12.8	13.2
1904.....	17.6	16.2	18.8	13.1	12.5	12.3	12.5	12.8
The West—								
1919.....	9.4	6.0	8.3	6.5	6.9	6.6	6.5	6.4
1914.....	8.1	4.5	6.9	7.1	6.0	6.4	6.2	5.9
1909.....	7.0	4.4	6.4	6.5	6.1	5.9	5.8	5.7
1904.....	6.8	4.0	5.2	5.1	5.6	5.5	5.4	5.4

¹ A minus sign (-) denotes decrease.