FOREST INDUSTRIES.

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BY GEORGE A. PRIEST.

This report is for the census year ending May 31, 1890, and presents statistics for the following branches of the forest industries: (1) lumber mills and saw mills; (2) timber products not manufactured by milling establishments; (3) tar and turpentine.

For convenience of collection, and to enable their lucid and comprehensive presentation, the data for these statistics were obtained on several schedules of inquiry, uniform as to general heads of investigation, but differing in technical questions, which were formulated with special reference to the conditions peculiar to each of the several branches of productive industry using crude forest products for their raw material. In order to show concisely the full extent of the industry, the data relating to the operations of all these branches are consolidated and presented in the following statement, which shows the totals for the United States, for each state and territory, and for industrial groups of states and territories. Statistics in detail for each branch will be found under their proper head in the pages following.

FOREST INDUSTRIES, BY STATES AND TERRITORIES: 1890.

STATES AND TERRITORIES.	Number of establishments reporting.	CAPITAL.		Miscellaneous expenses.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES. (a)		ANIMALS IN USE.		Cost of materials used.	VALUE OF PRODUCTS.		
		Value of hired property.	Direct investment.		Employés.	Wages	Average number.	Cost of keep.		Total.	Manufactured at mill.	Not manufactured at mill.
United States.	23,287	$10,594,025	$561,943,429	$241,023,299	521,806	$141,063,326	106,942	$7,959,849	$199,964,772	$446,034,761	$389,303,417	$56,731,344
Eastern group	6,783	3,159,722	103,085,296	3,917,224	111,225	27,303,135	17,278	1,298,780	31,654,813	79,158,889	73,243,308	5,915,581
Maine	894	468,846	12,978,315	570,210	20,301	3,897,715	2,920	164,126	5,161,619	11,849,654	10,760,876	1,088,778
New Hampshire	570	231,060	7,592,167	260,207	9,127	2,250,714	2,763	185,011	1,961,524	5,641,445	4,983,412	658,033
Vermont	779	97,085	7,789,874	286,626	10,745	2,395,879	2,771	168,773	3,037,406	6,958,674	6,810,797	147,877
Massachusetts	488	247,950	5,135,860	315,111	4,450	1,633,631	782	71,927	2,248,851	5,211,607	4,976,983	234,624
Rhode Island	32	22,250	135,156	9,912	262	92,088	48	4,558	89,916	264,625	212,050	52,575
Connecticut	176	47,780	1,092,586	40,852	1,292	495,745	423	42,564	610,763	1,353,544	1,113,609	239,935
New York	1,734	933,260	21,430,739	1,011,693	21,687	5,325,849	2,757	201,626	7,315,346	17,160,547	16,191,762	968,785
Pennsylvania	1,948	995,520	45,107,300	1,366,425	41,868	10,872,733	4,576	442,808	10,410,714	29,087,970	26,641,683	2,446,287
New Jersey	114	91,775	1,557,508	48,233	799	268,645	84	8,029	655,186	1,225,766	1,172,799	52,967
Delaware	48	24,196	265,791	7,955	694	130,136	154	9,358	163,488	405,057	379,337	25,720
Lake group	3,635	2,397,433	274,101,518	11,981,603	190,518	48,315,593	33,461	2,691,835	84,904,448	169,163,545	137,539,529	31,624,016
Michigan	2,124	927,453	129,467,072	5,521,688	91,319	25,111,583	11,671	1,237,193	40,695,684	83,121,969	68,119,944	15,002,025
Wisconsin	1,119	1,075,905	105,191,521	4,701,569	73,484	17,037,744	15,492	1,089,749	30,765,964	60,966,444	49,754,382	11,212,062
Minnesota	392	394,075	39,442,925	1,758,406	25,715	6,166,266	6,298	364,893	13,442,800	25,075,132	19,665,203	5,409,929
Central group	6,161	2,836,317	54,456,431	2,881,228	73,348	20,532,118	10,239	612,214	34,195,662	71,561,841	68,855,788	2,706,053
Ohio	1,461	985,675	11,806,709	628,390	14,611	4,157,028	1,318	93,322	7,146,330	15,279,843	14,983,679	296,164
Indiana	1,633	604,348	11,387,470	620,334	18,918	5,742,464	1,765	127,634	9,708,700	20,278,023	19,776,776	501,247
Illinois	363	267,015	4,095,212	359,358	5,360	1,358,002	557	30,718	2,679,379	5,135,155	5,064,975	70,180
West Virginia	454	15,800	5,086,114	173,073	6,641	1,712,938	1,466	108,465	2,485,645	5,515,065	5,174,471	340,594
Kentucky	599	372,734	6,571,374	380,897	8,257	2,245,886	688	33,907	3,912,769	7,904,428	7,544,032	360,396
Tennessee	820	262,950	7,259,027	344,654	9,891	2,551,940	1,877	101,735	4,641,893	9,073,686	8,880,109	193,577
Missouri	831	327,795	8,250,525	374,522	9,670	2,763,860	2,568	116,433	3,620,946	8,375,641	7,431,746	943,895

a Includes officers, firm members, and clerks, and their wages; also the 42,025 employés shown in Table 2, reported as the estimated number employed by contractors, and their wages.

FOREST INDUSTRIES, BY STATES AND TERRITORIES: 1890—Continued.

STATES AND TERRITORIES.	Number of establishments reporting.	CAPITAL.		Miscellaneous expenses.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.		ANIMALS IN USE.		Cost of materials used.	VALUE OF PRODUCTS.		
		Value of hired property.	Direct investment.		Employés.	Wages.	Average number.	Cost of keep.		Total.	Manufactured at mill.	Not manufactured at mill.
Southern group	5,096	$1,391,237	$63,405,240	$2,687,603	104,283	$27,544,343	34,377	$2,350,375	$28,150,305	$76,307,471	$65,048,445	$11,259,026
Maryland	217	119,370	1,459,895	54,577	2,233	493,266	475	27,636	712,738	1,600,472	1,552,438	48,034
Virginia	663	185,200	4,427,627	231,276	9,521	1,983,665	2,196	155,453	2,196,720	5,630,600	5,501,327	129,273
North Carolina	907	104,422	6,161,862	238,403	11,992	2,316,948	2,788	194,719	3,218,984	7,604,575	5,609,493	1,995,082
South Carolina	553	85,725	2,454,028	103,313	6,692	1,151,601	2,347	180,107	1,229,952	3,670,850	1,939,124	1,731,726
Georgia	677	98,725	7,262,227	312,582	19,772	4,628,136	6,030	496,404	2,904,776	10,787,459	6,216,585	4,570,865
Florida	230	130,510	5,621,358	271,464	6,700	2,092,428	1,740	140,569	2,106,139	5,706,738	5,294,194	412,544
Alabama	479	156,670	7,527,173	299,277	11,389	3,177,906	4,717	303,205	3,143,402	8,623,521	8,021,594	601,927
Mississippi	390	199,750	4,672,486	219,776	8,642	2,303,718	3,446	201,736	1,922,586	6,052,453	5,636,170	416,283
Louisiana	127	71,130	5,714,313	216,757	4,495	1,680,969	794	51,439	2,699,205	5,745,194	5,496,393	248,801
Arkansas	539	147,720	6,928,720	283,221	10,784	3,203,125	5,336	308,278	3,421,530	8,943,052	8,556,769	386,283
Texas	314	92,015	11,175,551	456,957	12,063	4,512,521	4,508	290,829	4,594,183	11,942,566	11,224,358	718,208
Pacific group	1,070	499,050	45,687,542	1,731,558	29,437	12,950,305	9,424	830,740	11,538,615	32,775,713	28,531,131	4,244,582
California	258	68,100	16,184,235	553,805	9,584	4,022,621	3,580	290,836	2,290,293	8,794,655	7,908,732	885,923
Oregon	350	146,300	8,103,060	354,278	7,214	2,716,968	2,522	171,090	2,104,631	6,530,757	5,706,345	824,412
Washington	462	284,650	21,400,307	823,475	12,639	6,210,716	3,322	368,814	7,143,691	17,450,301	14,916,054	2,534,247
Miscellaneous group.	542	310,266	21,207,402	824,083	12,995	4,417,832	2,163	175,905	9,520,929	17,067,302	16,085,216	982,086
Alaska	10	21,350	105,727	5,252	91	22,735	.....	.....	29,636	58,440	58,390	50
Arizona	4	.....	212,975	10,485	164	104,600	160	18,920	61,395	248,790	155,790	93,000
Colorado	120	31,781	941,561	51,132	1,655	608,143	753	77,886	403,962	1,363,749	1,148,330	215,419
Idaho	44	9,250	462,130	17,873	456	159,560	160	14,640	225,097	631,790	423,940	207,850
Indian territory	3	.....	16,000	1,000	51	18,100	14	1,400	17,200	41,950	41,950	.....
Iowa	143	165,760	17,530,335	638,090	7,408	2,413,890	36	2,810	7,894,448	12,056,302	11,669,437	386,865
Kansas	27	5,075	70,865	4,109	155	23,264	10	452	35,761	85,521	74,196	11,325
Montana	31	.....	832,948	41,845	1,158	470,755	213	26,157	379,710	1,182,510	1,174,080	8,430
Nebraska	31	34,400	96,539	6,714	206	55,864	38	1,020	56,865	154,945	149,448	5,497
New Mexico	26	6,750	193,335	13,812	442	211,041	411	14,080	109,181	389,761	378,561	11,200
North Dakota	5	.....	118,830	3,745	138	25,810	.....	.....	36,045	76,173	76,173	.....
Oklahoma	8	8,400	16,605	2,075	35	6,570	.....	.....	13,000	27,260	27,260	.....
South Dakota	41	7,100	251,255	12,707	548	157,115	233	11,206	110,696	375,709	350,709	25,000
Utah	32	12,900	198,248	8,542	370	96,067	131	7,184	97,257	249,940	232,490	17,450
Wyoming	17	7,500	160,049	6,702	118	44,318	4	150	49,776	124,462	124,462	.....

The statistics under the title "Lumber mills and saw mills" comprise all data relating to operations conducted by mills, while those under the title "Timber products not manufactured by milling establishments" comprise all other forest industries that are considered as mechanical or manufacturing except "Tar and turpentine", which is shown separately. Some of the industries assigned to the classification of "Timber products not manufactured by milling establishments", such as split shingles and charcoal, were reported under distinct heads at the census of 1880, but dissimilarity in the form and scope of the inquiry renders comparison of such industries impracticable.

The foregoing figures do not include the manufacture of cellulose or wood pulp, because a large part of the data relating to its production is included in the statistics relating to the manufacture of paper, and it was impracticable to make a separation.

As nearly as can be ascertained, however, the consumption of wood in the manufacture of wood pulp during the census year was about 96,640,000 cubic feet, the varieties used consisting principally of spruce, poplar, cottonwood, and balsam.

LUMBER MILLS AND SAW MILLS.

The object of the inquiry at the Eleventh Census regarding lumber mills and saw mills was to procure from manufacturers such information as would enable a statement to be made in the reports which would exhibit accurately the conditions of the industry as conducted in its various branches, showing these conditions by totals for the different states and territories.

For the purpose of this report the term "lumber mills" means only those mills in which sawed lumber forms the principal product, while the term "saw mills" means all other mills in which logs or bolts form the principal raw material, and are manufactured into any kind of product other than lumber excepting cellulose or wood pulp, the statistics for which are presented in the general report on manufactures.

Table 1, accompanying this report, is a comparative statement for the census years 1870, 1880, and 1890, showing by states and territories the number of establishments, capital, average number of employés at the mill, and their wages, cost at mill of materials used, and value at mill of manufactured products.

In comparing the statistics for 1890 with those of previous censuses it must be remembered that there have been numerous changes in both the form and the scope of the inquiry used at the Eleventh Census as compared with the inquiries adopted at the censuses of 1870 and 1880. Only such items of the returns for 1890 are shown as correspond with preceding census reports.

The following summary presents the leading statistics for the lumber mills and saw mills, by totals, for the United States, as reported at the censuses of 1870, 1880, and 1890:

COMPARATIVE SUMMARY, LUMBER MILLS AND SAW MILLS: 1870, 1880, AND 1890.

ITEMS.	1870 (a)	1880	1890
Number of establishments reporting	25,832	25,708	21,011
Capital (b)	$143,493,232	$181,186,122	$496,339,968
Miscellaneous expenses	(c)	(c)	$20,136,273
Average number of employés (aggregate)	149,997	147,956	d286,197
Total wages	$40,009,162	$31,845,974	d$87,784,433
Officers, firm members, and clerks:			
Average number	(e)	(e)	19,468
Total wages	(e)	(e)	$10,689,198
All other employés:			
Average number	(e)	(e)	266,729
Total wages	(e)	(e)	$77,095,235
Cost of materials used	$103,343,430	$146,155,385	f$231,555,018
Value of products	$210,159,327	$233,268,729	$403,667,575

a See remarks in regard to the depreciated currency of 1870, given in text below.
b Value of hired property is not included in the capital reported in 1890, because it was not included in the reports of previous census years.
c Not reported.
d Only includes employés and wages at mill.
e Not reported separately.
f For purposes of comparison, includes wages reported under the heads of "Logging" and "Cost of keep of animals", shown in Table 2.

A marked decrease appears in the number of establishments reported for 1890. In strong contrast to this decrease is the great increase in the average value of product per establishment, which indicates the concentration of the industry and its increased productive capacity. This is shown by the following statement of the averages per establishment for 1870, 1880, and 1890:

AVERAGE CAPITAL, NUMBER OF EMPLOYÉS, WAGES, MATERIALS, AND PRODUCTS PER ESTABLISHMENT, LUMBER MILLS AND SAW MILLS: 1870, 1880, AND 1890.

YEARS.	Capital. (a)	Number of employés.	Wages.	Cost of materials used.	Value of products.
1870	$5,554.86	5.81	$1,548.82	$4,000.60	$8,135.62
1880	7,047.85	5.76	1,238.76	5,685.21	9,073.78
1890	23,622.86	b13.62	b4,178.02	11,020.69	19,212.20

a Value of hired property is not included in the capital reported in 1890, because it was not included in the reports of previous census years.
b Only includes employés and wages at mill.

The wide diffusion of petty establishments 50 years ago is shown by the fact that 31,650 lumber mills were reported at the census of 1840, while the total value of their product was only $12,943,507, less than that now produced annually in the state of Washington.

In all comparisons with values reported for 1870 it should be remembered that the values for that census were expressed in a currency which was at a discount in gold. The average premium on gold during the 12 months (June 1, 1869, to May 31, 1870) which constituted the census year was about one-fourth (25.3 per cent). A premium on gold of one-fourth is equivalent to a discount on currency of one-fifth. For purposes of comparison therefore the values of 1870 should be reduced in that ratio.

The statistics for 1890 comprise data compiled from the reports of 18,064 lumber manufacturing establishments, 438 establishments engaged exclusively in the manufacture of staves and heading, 702 establishments engaged exclusively in the manufacture of shingles, and 1,807 establishments manufacturing miscellaneous products. The following statement shows the distribution of these establishments in the various states and territories:

LUMBER MILLS AND SAW MILLS, CLASSIFIED ACCORDING TO PRODUCT, BY STATES AND TERRITORIES: 1890.

STATES AND TERRITORIES.	NUMBER OF ESTABLISHMENTS ENGAGED IN THE MANUFACTURE OF—				
	Total.	Lumber.	Staves and heading exclusively.	Shingles exclusively.	Miscellaneous products.
The United States	21,011	18,064	438	702	1,807
Eastern group	6,422	5,231	101	210	880
Maine	831	611	53	32	135
New Hampshire	531	388	7	22	114
Vermont	736	569	5	19	143
Massachusetts	464	363	6	4	91
Rhode Island	29	22	.....	3	4
Connecticut	157	121	.....	.....	36
New York	1,664	1,378	12	60	214
Pennsylvania	1,853	1,662	17	69	105
New Jersey	110	77	.....	1	32
Delaware	47	40	1	.....	6
Lake group	3,088	2,613	96	212	167
Michigan	1,918	1,574	74	172	98
Wisconsin	853	755	22	29	47
Minnesota	317	284	.....	11	22
Central group	5,945	5,127	203	73	542
Ohio	1,427	1,164	55	7	201
Indiana	1,603	1,324	72	36	171
Illinois	357	319	9	1	28
West Virginia	428	402	7	.....	19
Kentucky	595	505	15	19	56
Tennessee	787	703	37	9	38
Missouri	748	710	8	1	29
Southern group	4,206	3,896	37	118	155
Maryland	212	197	.....	1	14
Virginia	638	587	10	4	37
Southern group—Continued.					
North Carolina	688	644	.....	14	30
South Carolina	328	315	1	1	11
Georgia	434	406	1	17	10
Florida	202	177	.....	6	19
Alabama	437	411	2	13	11
Mississippi	338	324	4	1	9
Louisiana	122	108	1	8	5
Arkansas	523	468	18	29	8
Texas	284	259	.....	24	1
Pacific group	831	717	1	83	30
California	221	180	.....	20	21
Oregon	300	279	1	16	4
Washington	310	258	.....	47	5
Miscellaneous group	519	480	.....	6	33
Alaska	10	10	.....	.....	.....
Arizona	4	4	.....	.....	.....
Colorado	109	109	.....	.....	.....
Idaho	41	37	.....	3	1
Indian territory	3	3	.....	.....	.....
Iowa	137	109	.....	.....	28
Kansas	27	24	.....	.....	3
Montana	30	30	.....	.....	.....
Nebraska	31	30	.....	.....	1
New Mexico	26	24	.....	2	.....
North Dakota	5	5	.....	.....	.....
Oklahoma	8	8	.....	.....	.....
South Dakota	41	41	.....	.....	.....
Utah	30	30	.....	.....	.....
Wyoming	17	16	.....	1	.....

This report includes only such planing mills as are operated by lumber manufacturers in connection with lumber mills. The statistics relating to all other planing mills, sash, door, and blind factories, box factories, turning works, and similar woodworking industries engaged in the remanufacture of lumber and saw mill products will be found under their proper titles in the general statistics on manufactures. The data relating to such industries when allied to lumber and saw mill operations are stated separately under the principal heads of the tabular presentation for 1890.

The form of the inquiry concerning the industries covered by this report corresponded, in its general plan, with that adopted for the collection of all statistics of manufactures, but in order to secure a complete statistical presentation for each of the varied branches which it embraced an arrangement of questions was required under each of its general heads which would include the entire series of operations by any establishment, from the cutting of the tree in the forest to the output at the mill of the finished product. From the individual reports made upon the form adopted the information contained in the following tables has been compiled. It should be understood, however, that the tables do not disclose the profits of manufacturing, because the scope of the inquiry does not embrace data essential to such a disclosure; the value of the product reported is its value "at the mill", not including expenses of or allowance for selling and mercantile risks. The cost of depreciation of plant in excess of the expense for ordinary repairs is also omitted.

CAPITAL.

The disproportion in the ratio of capital employed to value of manufactured products for 1890 as compared with 1880 is probably due to the radical change in the form of the inquiry used at the Eleventh Census respecting capital. This change, it is believed, has resulted in a more complete exhibit of the capital employed in all branches of the industry at the census of 1890 than that made at preceding censuses.

The form of question used at the census of 1880 was as follows: "Capital (real and personal) invested in the business". This form of inquiry, when addressed to an establishment owning timbered land tributary to mill or engaged in cutting standing timber, was not sufficiently comprehensive. In some cases the entire capital employed was reported, while in others only the capital directly invested in mill operations was stated.

The form of inquiry used at the census of 1890 required a distinct statement of capital employed in the production of logs and all other forest products, in the manufacture of logs into lumber and other mill products, and also in the remanufacture of such mill products into any other form of product. The subdivisions of the inquiry respecting capital were calculated to develop the full amount of capital owned, borrowed, and hired, and the results of the inquiry will be found detailed in Table 2.

The average apportionment to the principal heads of the inquiry of each $100 of capital employed in the lumber mills and saw mills in the respective states is shown in the following statement:

AVERAGE APPORTIONMENT OF PRINCIPAL CLASSES OF INVESTMENT IN EACH $100 OF CAPITAL, LUMBER MILLS AND SAW MILLS, BY STATES AND TERRITORIES: 1890.

STATES AND TERRITORIES.	CLASSES OF INVESTMENT.			
	Timbered land (tributary to mill).	Logging.	Mill plant.	Live assets.
The United States	26.01	12.18	27.10	34.71
Eastern group	24.21	10.50	30.59	34.70
Maine	14.13	12.76	35.82	37.29
New Hampshire	19.42	7.66	38.04	34.88
Vermont	18.91	9.91	34.70	36.48
Massachusetts	6.40	6.64	42.84	44.12
Rhode Island	8.85	5.06	60.94	25.15
Connecticut	9.11	5.84	49.79	35.26
New York	16.77	11.13	38.76	33.34
Pennsylvania	35.24	10.91	20.77	33.08
New Jersey	6.66	3.18	49.17	40.99
Delaware	14.80	11.41	52.48	21.31
Lake group	32.46	13.63	19.21	34.70
Michigan	32.06	13.34	19.87	34.73
Wisconsin	36.93	13.21	16.52	33.34
Minnesota	20.69	16.06	24.61	38.64
Central group	9.76	7.65	39.14	43.45
Ohio	10.92	8.42	43.18	37.48
Indiana	6.86	6.16	39.35	47.63
Illinois	5.83	6.56	31.54	56.07
West Virginia	18.76	11.89	28.84	40.51
Kentucky	5.63	6.53	38.73	49.11
Tennessee	7.72	5.60	38.94	47.74
Missouri	14.46	9.59	43.29	32.66
Southern group	20.48	14.09	38.82	26.61
Maryland	14.41	9.78	43.84	31.97
Virginia	14.83	11.23	47.62	26.32
North Carolina	21.22	9.84	46.05	22.89
Southern group—Continued.				
South Carolina	22.04	19.30	44.09	14.57
Georgia	21.64	21.92	37.22	19.22
Florida	21.44	13.08	41.42	24.06
Alabama	20.10	20.45	38.62	20.83
Mississippi	16.81	13.51	41.87	27.81
Louisiana	12.51	11.97	37.40	38.12
Arkansas	23.03	11.52	37.15	28.30
Texas	26.29	12.71	30.20	30.80
Pacific group	27.13	13.02	32.49	27.36
California	38.16	23.21	18.93	19.70
Oregon	23.13	12.29	38.45	26.13
Washington	19.69	5.02	41.23	34.06
Miscellaneous group	19.73	8.95	21.27	50.05
Alaska	.....	2.08	89.39	8.53
Arizona	.....	46.95	37.66	15.39
Colorado	9.27	19.12	33.18	38.43
Idaho	3.00	16.01	45.35	35.64
Indian territory	.....	2.50	37.50	60.00
Iowa	22.82	7.99	17.63	51.56
Kansas	5.94	10.97	59.66	23.43
Montana	2.14	7.35	24.09	66.42
Nebraska	4.35	2.32	53.76	39.57
New Mexico	2.53	16.09	56.19	25.19
North Dakota	6.83	.....	49.06	44.11
Oklahoma	.....	.....	68.53	31.47
South Dakota	8.02	11.40	41.40	38.28
Utah	1.07	10.16	39.85	48.92
Wyoming	1.31	1.22	51.16	46.31

MISCELLANEOUS EXPENSES.

No previous census inquiry has embraced the cost incurred in manufacturing operations other than that of wages and materials. The inquiry at the Eleventh Census was designed to embrace the entire cost of production other than allowance for depreciation of plant. The inquiry was intended to ascertain the true relations which capital, miscellaneous expenses, wages, and cost of materials bear to the value of product at place of manufacture.

The items of "rent" and "interest" represent the cost to the manufacturer of that portion of capital which is hired or borrowed.

EMPLOYÉS AND WAGES.

In the preceding census reports respecting the lumber and saw mill industry the statistics of employés and wages have been confined to a statement of the average number of males above 16 years, females above 15 years, and children, respectively, employed at the mills and the total amount paid in wages to all during the year.

The form of questions used at the Eleventh Census required employés and wages to be reported under the following classes: (1) officers or firm members actively engaged in the industry or in supervision, their wages being reported at actual rates paid or at the rate which would be paid to an employé performing similar services; (2) clerks; (3) operatives, engineers, and other skilled workmen, and overseers and foremen or superintendents (not general superintendents or managers); (4) watchmen, laborers, teamsters, and other unskilled workmen; (5) pieceworkers.

Reports were obtained of the average number of males above 16 years, females above 15 years, and children employed by mill establishments in each class during the year, and the total wages paid to each number as employed in the various branches of operation from the stump to the finished product. A statement was also obtained showing the various rates per month and the average number of males above 16 years, females above 15 years, and children, respectively, employed at each rate.

The wage statistics compiled from these reports are stated in detail in Tables 3 and 4.

The number of the employés and their wages reported for the year 1890 in Table 1 will not correspond with the total number reported in the tables following, because it is necessary, in order to permit fair comparison with preceding censuses, to show for 1890 only those employés engaged at the mill. In 1890 the employés and wages in each of the different branches of the industry from the standing timber to the finished product were obtained.

MATERIALS USED.

In explanation of the amount shown for 1890 in Table 1 as the cost of materials used by "Lumber mills and saw mills", an exhibit of the items which constitute this amount for each group of states is given in the following statement. This statement also shows the total cost of all forest products and the cost at the mill of all logs and bolts used during the year.

COST OF MATERIALS USED, LUMBER MILLS AND SAW MILLS, BY INDUSTRIAL GROUPS OF STATES AND TERRITORIES: 1890.

ITEMS.	United States.	Eastern group.	Lake group.	Central group.	Southern group.	Pacific group.	Miscellaneous group.
Value of stumpage	$34,417,861	$5,492,271	$22,154,336	$2,636,126	$2,763,762	$1,132,988	$238,378
Cost of logging supplies	2,101,595	324,275	1,029,576	68,128	349,235	293,201	37,180
Wages paid in woods	22,920,082	4,309,015	8,991,106	2,145,626	4,536,489	2,527,980	409,857
Contract labor in woods	9,647,464	2,826,941	3,874,695	431,943	1,840,338	601,174	72,373
Keep of animals	6,112,170	1,120,020	1,962,036	534,697	1,811,828	532,454	151,135
Wages expended in transportation of logs to mill	6,424,248	1,815,815	1,505,796	628,345	1,740,751	613,810	119,731
Total cost of forest products	81,623,420	15,888,337	39,517,545	6,444,865	13,042,403	5,701,616	1,028,654
Deduct value of forest products which have not become material of the mill.	14,364,158	1,959,459	9,073,526	899,436	1,104,122	985,375	342,240
Cost at mill of logs and bolts cut by milling establishments and used as material at the mill.	67,259,262	13,928,878	30,444,019	5,545,429	11,938,281	4,716,241	686,414
Add cost of logs and bolts purchased	96,906,167	18,274,826	28,423,135	24,242,085	13,139,256	6,703,921	6,122,944
Total cost of logs and bolts delivered at mill	164,165,429	32,203,704	58,867,154	29,787,514	25,077,537	11,420,162	6,809,358
Add cost of mill supplies and all other materials of mill, other than planing mill.	12,425,215	1,376,218	a7,296,091	1,436,850	1,318,164	690,844	307,048
Total cost of materials for mill products other than planing mill.	176,590,644	33,579,922	66,163,245	31,224,364	26,395,701	12,111,006	7,116,406
Add cost of materials for planing mills (lumber, mill supplies, and all other materials).	40,600,816	5,239,392	17,252,094	5,502,441	7,737,196	2,169,309	2,700,384
Total cost of materials entering into saw, lumber, and planing mill products.	217,191,460	38,819,314	83,415,339	36,726,805	34,132,897	14,280,315	9,816,790
Add value of forest products, previously deducted	14,364,158	1,959,459	9,073,526	899,436	1,104,122	985,375	342,240
Aggregate cost of materials used by the lumber mill and saw mill industry. (See Table 1.)	231,555,618	40,778,773	92,488,865	37,626,241	35,237,019	15,265,690	10,159,030

a Includes all other expenses of transportation.

Labor enters very largely into the manufacture of forest products which become materials for the mill. In order to obtain the ratio which labor and material each bear to the total value of products of the lumber and saw mill industry, it is necessary to start at the stump and separate the cost of each in all stages of the process of converting standing timber into the mill product. The data presented in the following statement show by groups of states the division of cost for labor, materials, and other items of expense in the lumber and saw mill industry, estimated upon the base that the raw material of each establishment was standing timber. In this statement the cost of "logs and bolts purchased" has been distributed among the several items constituting the "Total cost of forest products" shown in the preceding statement. This distribution has been made in the ratio that each item bears to the total.

ESTIMATED PROPORTION OF THE PRINCIPAL ITEMS OF COST TO TOTAL COST OF MANUFACTURE, THE RAW MATERIAL OF EACH ESTABLISHMENT BEING STANDING TIMBER, LUMBER MILLS AND SAW MILLS, BY INDUSTRIAL GROUPS OF STATES AND TERRITORIES: 1890.

ITEMS IN COST OF MANUFACTURE.	United States.	Eastern group.	Lake group.	Central group.	Southern group.	Pacific group.	Miscellaneous group.
Total	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00	$100.00
Value of stumpage	25.13	21.08	33.96	24.39	12.16	10.95	14.06
Logging supplies	1.53	1.24	1.58	0.63	1.54	2.88	2.20
Keep of animals	4.47	4.30	3.00	4.95	7.97	5.15	8.92
Mill supplies and all other materials	4.38	2.67	6.69	3.03	3.23	3.36	2.82
Miscellaneous expenses	6.72	6.73	7.68	5.53	5.39	7.26	6.91
Wages	57.77	63.98	47.09	61.47	69.71	70.45	65.09

From the foregoing statement it appears that labor constitutes 57.77 per cent and all other items of cost 42.23 per cent of the aggregate cost of the products of this industry in the United States.

PRODUCTS.

The classification of mill products adopted for the schedule of inquiry used at the Eleventh Census was enlarged to ascertain the quantities of special lumber products required in certain industries as raw material. The added classes consist of agricultural implement stock, carriage and wagon stock, furniture stock, and pickets. A specific statement for each class of lumber product is made in Table 2. An exhibit of the items constituting the value of "All other products" for the respective groups of states is given in the statement on the following page.

PRODUCTS INCLUDED UNDER THE HEAD OF "ALL OTHER PRODUCTS" IN TABLE 2, LUMBER MILLS AND SAW MILLS, BY INDUSTRIAL GROUPS OF STATES AND TERRITORIES: 1890.

CLASSES OF PRODUCTS.	United States.	Eastern group.	Lake group.	Central group.	Southern group.	Pacific group.	Miscellaneous group.
Total	$20,980,752	$6,278,673	$3,557,295	$7,826,428	$2,315,733	$574,777	$427,846
Agricultural implements	125,000	11,800		97,200	16,000		
Ax helves and ox yokes	30,000	3,000	3,000				24,000
Baskets, butter dishes, and fruit crates	2,000,000	612,000	130,000	650,000	533,877	24,123	50,000
Beehives	7,000	4,500	2,500				
Boat stock and boat oars	100,000	2,000	1,000	95,000	2,000		
Carriage and wagon stock, in shape:							
Hubs and hub stock	775,000	159,000	210,000	366,000	40,000		
Spokes	1,550,000	125,000	186,000	1,005,000	234,000		
All other wheel stock, panels, and poles	1,400,000	56,873	43,127	950,000	300,000		50,000
Car stock, in shape	130,000	10,000	90,000	30,000			
Chairs and chair stock, in shape	610,846	260,000	30,000	177,000	83,000		60,846
Clapboards	350,000	350,000					
Cloth boards	15,000	15,000					
Clothespins	150,000	135,000	15,000				
Clothes racks	4,000			4,000			
Cooperage:							
Barrels, casks, tierces, and hogsheads	314,000	82,000	34,000	155,000	16,000	6,000	21,000
Butter tubs	261,000	260,000					1,000
Cheese boxes	150,000	130,000	10,000	10,000			
Hoops	1,000,000	45,000	364,000	550,000	34,000	5,000	2,000
Tubs and pails	1,250,000	525,000	175,000	275,000	275,000		
Cooperage and cooperage stock, not elsewhere specified	945,752	178,000	85,752	587,000	95,000		
Excelsior fiber	500,000	226,000	125,000	119,000		15,000	15,000
Ladders	100,000	60,000	15,000	10,000	5,000	5,000	5,000
Match cards and splints	100,000	50,000	50,000				
Measures	6,000	6,000					
Mine props	150,000	50,000	10,000				90,000
Novelties, toys, and fancy goods	250,000	200,000		50,000			
Paving materials	300,000		150,000		150,000		
Pencil stock	150,000				150,000		
Sawdust sold	10,000	1,000	8,000		1,000		
Sounding boards	100,000	100,000					
Scaleboards	10,000			10,000			
Shakes	413,654					413,654	
Shipbuilding material, in shape	10,000	10,000					
Shooks	150,000	100,000				50,000	
Telegraph arms and insulator pegs	50,000	30,000			20,000		
Toothpicks and cigar lighters	150,000	135,000	15,000				
Trunk slats	50,000	1,000	8,000	41,000			
Turned and shaped goods, not elsewhere specified:							
Brush and die blocks	55,000	50,000		5,000			
Butchers' blocks	10,000			10,000			
Cutting blocks	10,000	10,000					
Dowel pins, umbrella sticks, and spindles	175,000	155,000	10,000	10,000			
Handles	2,500,000	406,000	346,000	1,636,000	102,000	6,000	4,000
Last blocks and lasts	150,000	50,000		100,000			
Plane stocks	2,500	2,500					
Pumps and water piping	400,000	152,000	20,000	78,000	50,000		100,000
Raft pins	10,000		10,000				
Rolls	25,000	12,000	6,000	5,000	2,000		
Saddletrees	10,000			10,000			
Sap sprouts	1,000	1,000					
Shoes, wooden	15,000		15,000				
Shoe pegs and treenails	150,000	150,000					
Skewers	100,000			100,000			
Spools and bobbins	500,000	350,000	15,000	125,000	10,000		
Stirrups, wooden	25,000			25,000			
Miscellaneous turned and shaped goods, not elsewhere specified	150,000	50,000	40,000	60,000			
Veneers from domestic woods	1,500,000	900,000	220,000	155,144	174,856	50,000	
Washing machines	15,000			15,000			
Whip and harness stock	15,000			15,000			
Windmill material	5,000						5,000
Wooden ware not specified	1,490,000	57,000	1,114,916	296,084	22,000		

Particular attention is directed to the item in Table 2, "Tolls received for custom sawing", amounting to $9,589,580. This amount represents only earnings for the use of plant and cost of labor. It does not include cost of material, except the comparatively small item of mill supplies, because it is "custom work" usually performed for owners of raw material who are not manufacturers and have not made census returns as such. Therefore no official data are furnished for a statement of the cost of such material or value of its product. Assuming $3 per 1,000 feet arbitrarily to be the average toll for custom sawing, this toll used as a divisor, with the total amount of toll as a dividend, produced 3,196,527 thousand feet as the aggregate quantity of product represented by "custom sawing", which quantity apportioned among the respective states, according to the receipts of toll reported and reckoned at the average value of mill product per 1,000 feet, will considerably increase the total value of sawed lumber in these states.

TIMBER PRODUCTS NOT MANUFACTURED BY MILLING ESTABLISHMENTS.

Timber products not manufactured by milling establishments were reported on a separate schedule, "Special schedule No. 5*a*, timber products". The compilation of data received on this schedule is presented in Tables 5, 6, and 7, but the statistics do not fully represent the extent and value of the industry which the inquiry was intended to embrace. The instructions respecting this inquiry issued to enumerators and special agents directed that it should be presented to all operators engaged in productive industry in forest growth which does not come within the scope of the schedule for agriculture and whose operations are not connected with lumber or saw mills.

The returns for establishments that had offices in cities were secured by the special agents appointed to collect statistics of manufactures; all other establishments were reported by the general enumerators while engaged in enumerating the population.

Upon completing the canvass it was found that no reports whatever were obtained from some districts having an extensive forest area, it having been impracticable to examine and verify the returns obtained by enumerators during the brief period they were at work, and equally so to obtain additional returns by means of correspondence after the conclusion of the canvass.

Had the instructions been strictly followed, the data obtained would have enabled a full presentation of statistics to be made respecting the forest crop of the country. Among the important items for which the reports are incomplete may be mentioned wood used as fuel and for the manufacture of charcoal, material for wood pulp and for distilled products, uncultivated vegetable substances used in the manufacture of medicines, uncultivated nuts, wood used for fencing, and timber cut for railway ties and for mining.

It will be observed that the data contained in Table 2 for "Lumber mills and saw mills", under the head of "Materials used", show 13,087,846 thousand feet (board measure) of logs purchased during the census year, for which the sum of $92,677,446 was paid, and this material for the mill should appear as the product of the logger. That the total reported for this class of product is quite deficient is indicated by its discrepancy from the quantity known to have been purchased and used during the census year by lumber and saw mills.

Although the totals do not represent the industries in their entirety, the statistics are valuable as showing the relations of capital, wages, materials, and miscellaneous expenses to the value of product in various sections of the country, and they are summarized for the United States under these heads, as follows:

TIMBER PRODUCTS NOT MANUFACTURED BY MILLING ESTABLISHMENTS, INCLUDING TAR AND TURPENTINE: 1890.

ITEMS.	CLASSIFICATION OF ESTABLISHMENTS.		
	Total.	Timber products.	Tar and turpentine.
Number of establishments reporting	2,276	1,606	670
Capital:			
Direct investment	$65,603,461	$61,541,086	$4,062,375
Value of hired property	$1,423,318	$1,396,818	$26,500
Miscellaneous expenses	$3,887,026	$3,708,364	$178,662
Average number of employés (aggregate)	61,457	46,142	15,315
Total wages	$14,287,099	$11,353,608	$2,933,491
Officers or firm members:			
Average number	956	907	49
Total wages	$541,503	$514,559	$26,944
All other employés:			
Average number	60,501	45,235	15,266
Total wages	$13,745,596	$10,839,049	$2,906,547
Animals in use:			
Average number	26,853	22,053	4,800
Cost of keep	$1,847,679	$1,479,426	$368,253
Cost of materials used	$13,513,118	$11,006,678	$2,506,440
Value of products	$42,367,186	$34,289,807	$8,077,379

TAR AND TURPENTINE.

Owing to its peculiar conditions and its economic importance, a distinct report was obtained for the manufacture of tar and turpentine. A special schedule of inquiry was sent to all manufacturers whose post office addresses could be obtained. The data thus obtained are shown in detail in Table 8.

The following comparative summary presents the leading statistics of the tar and turpentine industry by totals for the United States, as reported at the censuses of 1870, 1880, and 1890:

COMPARATIVE SUMMARY, TAR AND TURPENTINE: 1870, 1880, AND 1890.

ITEMS.	1870 (a)	1880	1890
Number of establishments reporting	227	508	670
Capital (b)	$902,225	$1,866,390	$4,062,375
Miscellaneous expenses	(c)	(c)	d$546,015
Average number of employés (aggregate)	2,638	10,535	15,315
Total wages	$476,284	$1,623,061	$2,933,491
Officers or firm members:			
Average number	(e)	(e)	49
Total wages	(e)	(e)	$26,944
All other employés:			
Average number	(e)	(e)	15,266
Total wages	(e)	(e)	$2,906,547
Cost of materials used	$2,146,090	$2,324,637	$2,506,440
Value of products	$3,585,225	$5,876,983	$8,077,379

a See remarks in regard to the depreciated currency of 1870, page 595.
b Value of hired property is not included in the capital reported in 1890, because it was not included in the reports of previous census years.
c Not reported.
d Includes cost of keep of animals.
e Not reported separately.

The principal products consist of spirits of turpentine and resin, and the quantity and value of each, as reported for the respective states at the census of 1890 are shown in the following statement:

QUANTITY AND VALUE OF SPIRITS OF TURPENTINE AND RESIN, BY STATES: 1890.

STATES.	SPIRITS OF TURPENTINE.		RESIN.	
	Barrels.	Value.	Barrels.	Value.
The United States	346,524	$5,459,115	1,429,154	$2,413,757
Florida	7,598	126,929	31,000	64,780
Georgia	189,558	2,792,042	670,588	1,474,353
Mississippi	12,078	181,142	60,150	89,887
North Carolina	72,888	1,293,086	365,233	377,310
South Carolina	60,873	1,039,421	283,116	383,167
All other states (a)	3,529	86,495	19,067	24,260

a Includes Alabama and Missouri.

TIMBERED LAND AND STANDING TIMBER.

The collection of accurate and comprehensive statistics relating to timbered land and the quantity of timber thereon is quite difficult, and the work of the Eleventh Census was therefore restricted to obtaining information respecting timbered land owned by those manufacturers using standing timber, logs, or bolts for their raw material, the term "merchantable timber" being defined as comprehending all timber which could be manufactured into lumber fit for market. For convenience of report, the manufacturing establishments were divided into two classes, one of which embraced all those operating any kind of mill, and the other was intended to include all other productive forest industries not conducted by mills.

No attempt was made at the Eleventh Census to ascertain the total quantity of merchantable timber standing in any of the states. Attempts have been made by several state governments to obtain it, but with unsatisfactory results. For this reason the census inquiry was limited to those lines upon which it was believed the most accurate information was accessible. The reports obtained from manufacturers respecting standing timber owned by them are believed to have peculiar value, because their timbered land is usually thoroughly explored and its product carefully estimated, but the totals relating to such timber fall far short of the total quantity of merchantable timber in the United States.

The question as to capital invested in timbered land and standing timber required for its answer a specific report of the amount invested in such lands as are not tributary to the mills operated by the establishments in question, also the amount invested in timbered land or standing timber which is tributary to such mills. The latter amount only is stated in Table 2, as forming a part of the operative capital of mill establishments.

There is reason to believe that the amounts reported under the head of "Capital invested" in timbered land in some instances are no criterion of the present value of the land, because it has been partly stripped of timber and the investment does not appear to have been credited with the value of such timber. To what extent this affects the totals the census data furnish no means of accurately determining.

It should be understood that the items of capital invested, area of timbered land, and principal varieties of timber are statements of fact; the items of quantity of merchantable standing timber and its value are estimated.

To what extent the result approaches the total forest area or the total quantity of standing timber in the respective states can not be determined, as complete data are not available.

So far as complete reports were received, the data presented in the following statement may therefore be considered as showing the investment in timbered land by the manufacturers of lumber and cognate products only, the area in acres of such land in the respective states, its estimated average product per acre of merchantable timber, and the average value per 1,000 feet (board measure) of the timber as it stands in the forest. The area of the land as given under the head of "Ownership" shows the area owned according to location of the principal office of the establishment reporting, while under the head of "Location of land" the land is credited to the state in which it is located.

TIMBERED LAND OWNED BY MANUFACTURERS OF LUMBER AND COGNATE PRODUCTS, BY STATES AND TERRITORIES: 1890.

STATES AND TERRITORIES.	Number of establishments reporting.	ACCORDING TO OWNERSHIP. (a)(b)		ACCORDING TO LOCATION OF LAND. (b) (c)				
		Capital invested.	Area in acres.	Area in acres.	Average quantity of merchantable timber per acre. (Feet, board measure.)	Estimated total quantity of merchantable timber. (Number of 1,000 feet, board measure.)	Average value per 1,000 feet as standing timber.	Estimated total value.
The United States	9,757	$195,440,827	27,664,626	27,664,626	7,829	216,589,090	$1.89	$409,620,990
Eastern group	3,180	32,083,027	5,058,634	4,870,197	6,529	31,796,155	2.03	64,555,776
Maine	371	3,547,326	1,570,546	1,677,740	3,599	6,038,999	1.48	8,960,600
New Hampshire	256	2,199,973	465,461	370,991	6,546	2,428,659	2.03	4,934,024
Vermont	403	1,768,894	406,483	405,076	8,099	3,280,592	1.91	6,282,006
Massachusetts	223	704,998	43,826	24,829	11,173	277,417	3.30	915,515
Rhode Island	12	17,800	1,507	1,547	5,570	8,617	4.02	34,637
Connecticut	76	175,205	11,525	12,445	8,074	100,476	4.15	417,013
New York	707	4,683,615	986,106	963,676	5,631	5,426,638	1.99	10,803,652
Pennsylvania	1,066	18,793,104	1,560,208	1,400,851	10,104	14,154,701	2.25	31,888,080
New Jersey	38	137,550	8,405	8,355	4,986	41,660	5.60	233,253
Delaware	28	55,162	4,567	4,687	8,192	38,396	2.26	86,906
Lake group	1,192	110,616,505	10,702,226	9,787,930	6,638	64,973,573	3.26	212,097,525
Michigan	638	54,357,754	5,707,350	4,363,563	7,255	31,656,743	2.80	88,691,423
Wisconsin	444	42,263,259	3,968,917	4,153,698	6,223	25,850,239	3.81	98,547,423
Minnesota	110	13,995,492	1,025,959	1,270,669	5,876	7,466,591	3.32	24,798,679
Central group	1,637	13,424,796	2,490,784	2,499,297	4,719	11,795,030	2.44	28,823,522
Ohio	289	1,612,770	106,864	81,214	6,582	534,550	3.17	1,692,207
Indiana	340	992,086	62,871	60,501	6,278	379,839	5.03	1,911,009
Illinois	79	1,316,776	111,978	34,306	3,495	119,916	2.68	321,296
West Virginia	184	1,743,611	302,912	449,822	7,059	3,175,426	2.16	6,848,732
Kentucky	176	4,722,742	948,861	986,286	3,014	2,972,443	4.01	11,921,873
Tennessee	210	903,260	294,083	219,213	7,345	1,610,140	1.49	2,399,600
Missouri	359	2,133,551	663,215	667,955	4,495	3,002,716	1.24	3,728,805
Southern group	2,916	19,308,112	7,609,937	8,791,397	6,007	52,811,681	0.98	52,017,470
Maryland	141	402,675	38,358	50,323	7,167	360,644	2.86	1,032,136
Virginia	311	851,589	204,706	211,653	6,646	1,406,624	1.26	1,776,896
North Carolina	459	2,301,492	1,004,840	1,141,662	5,413	6,179,966	1.56	9,624,802
South Carolina	244	1,153,960	433,355	416,615	8,714	3,630,291	0.98	3,579,319
Georgia	301	2,610,885	1,381,230	1,403,810	4,657	6,536,972	0.86	5,653,174
Florida	129	2,276,311	1,087,775	867,786	3,748	3,248,014	0.99	3,213,998
Alabama	372	1,627,127	576,119	936,151	5,852	5,478,385	0.87	4,745,982
Mississippi	257	1,227,968	594,763	975,311	6,801	6,632,927	0.61	4,003,170
Louisiana	105	1,432,878	534,095	982,328	8,219	8,073,400	0.94	7,626,868
Arkansas	360	2,069,805	701,732	950,134	6,049	5,747,635	1.03	5,922,671
Texas	237	3,353,422	1,052,964	855,624	6,448	5,516,823	0.87	4,778,454

a The capital and land are credited to the state in which the principal office of the establishment is located.
b Includes government license to cut timber on 25,680 acres located in Canada.
c The land is credited to the state in which it is located.

TIMBERED LAND OWNED BY MANUFACTURERS OF LUMBER AND COGNATE PRODUCTS—Continued.

STATES AND TERRITORIES.	Number of establishments reporting.	ACCORDING TO OWNERSHIP.		ACCORDING TO LOCATION OF LAND.				
		Capital invested.	Area in acres.	Area in acres.	Average quantity of merchantable timber per acre. (Feet, board measure.)	Estimated total quantity of merchantable timber. (Number of 1,000 feet, board measure.)	Average value per 1,000 feet as standing timber.	Estimated total value.
Pacific group	671	$15,723,214	1,559,729	1,600,349	33,961	54,349,311	$0.94	$50,843,838
California	200	8,443,004	587,167	596,867	40,742	24,317,791	1.07	25,962,588
Oregon	223	2,231,380	229,343	249,111	35,242	8,779,193	0.62	5,407,212
Washington	248	5,048,830	743,219	754,371	28,172	21,252,327	0.92	19,474,038
Miscellaneous group	161	4,284,573	243,316	89,776	7,806	700,780	1.28	899,499
Colorado	58	148,980	68,930	68,930	6,968	480,334	1.10	526,200
Idaho	7	16,960	2,735	2,735	7,921	21,665	1.09	23,584
Indian territory				2,500	30,000	75,000	1.00	75,000
Iowa	56	4,040,128	161,775	5,735	4,716	27,049	3.65	98,683
Kansas	5	6,210	245	245	11,898	2,915	3.60	10,507
Montana	5	19,700	2,070	2,070	14,058	29,100	0.99	28,814
Nebraska	6	4,960	491	491	2,754	1,352	2.18	2,946
New Mexico	7	6,715	1,275	1,275	11,039	14,075	1.69	23,755
North Dakota	2	9,120	1,840	1,840	5,000	9,200	4.00	36,800
South Dakota	11	25,600	3,215	3,215	8,886	28,570	2.03	58,000
Utah	2	3,500	180	180	8,889	1,600	3.25	5,200
Wyoming	2	2,700	560	560	17,714	9,920	1.00	9,920
Canada (a)				25,680	6,330	162,560	2.73	443,360

a Includes government license to cut timber on 25,680 acres located in Canada.

EASTERN GROUP.

The principal varieties of timber reported in Maine comprise spruce at an average stumpage value of $1.50 per 1,000 feet, pine at $3.90, hemlock at $1.63, poplar at $2.35, birch at $1.12, and cedar at $2.58. A considerable range appears in the stumpage values reported, since they depend on so many conditions of growth and accessibility to market. The value of spruce varies from $1.00 to $3.00 per 1,000 feet; that of pine from $2.50 to $5.50, the minimum price being for second growth, or sapling pine, and the maximum for virgin timber. The values reported for hemlock include, in some cases, the value of the bark, the value of the stripped timber for manufacture into lumber being usually reckoned at from 50 cents to $1.00 per 1,000 feet. Maine contains a considerable growth of canoe birch, which is largely utilized for the manufacture of spools, shoe lasts, and pegs.

The principal variety of commercial timber reported in New Hampshire and Vermont is spruce, together with a considerable quantity of hemlock and some hard woods. The average area comprised by the individual reports is much less than that in Maine, and this fact may explain the larger average product per acre derived from the smaller holdings. A considerable quantity of pine, mostly second growth, is reported in New Hampshire. The timber of chief economic value in Massachusetts, Rhode Island, and Connecticut comprises pine of second growth and chestnut.

The principal commercial timber of northern New York consists of spruce, having an average value of $1.72 on the stump, interspersed with hemlock, cedar, and occasional pine groves. Stated in their rank, according to the quantity reported, the commercial timbers of Pennsylvania, and their average stumpage value, are hemlock, $1.45; pine, $4.45; chestnut, $3.00; oak, $3.66; maple, $3.27; birch, $5.00; cherry, $10.00, and beech, $2.00. The timber growth in New Jersey and Delaware is not sufficient to give it economic importance, what is manufactured being for local use and consisting principally of pine, oak, chestnut, and cedar.

LAKE GROUP.

This group stands first in the quantity and value of its forest products, which consist principally of white pine lumber, although enough remains of the hard wood, which formed the original forest cover for the southern portion of Michigan, to furnish material for important industries. The principal body of white pine now remaining in Michigan is found in the northern peninsula in conjunction with the pine of Wisconsin, whose principal forest area is in the northern half of the state. The bulk of the white pine now standing in the United States is located in the northeastern part of Minnesota and is tributary to the Mississippi river and to Lake Superior. The consumption in Michigan, Wisconsin, and Minnesota of merchantable standing timber of all varieties by the

manufacturing industries operating mills, whose reports are presented herewith, is shown to have aggregated about 11,000,000 thousand feet, board measure, during the census year, and it also appears that manufacturers' holdings of such timber will supply them but a few years longer at the present rate of consumption. The quantity of timber in reserve is principally standing on lands owned by the federal and state governments.

Selected varieties of commercial importance in the Lake group are given in the following statement, which also shows for each variety the average product of merchantable timber per acre and the average value on the stump:

TIMBERED LAND, LAKE GROUP, BY STATES: 1890.

[Board measure.]

VARIETIES.	MICHIGAN.		WISCONSIN.		MINNESOTA.	
	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.
Ash	8,397	$3.18	.....	.....	.....	.....
Beech, birch, and maple	6,123	1.80	5,409	$1.69	2,786	$1.36
Cedar	5,153	1.38	3,825	1.64	3,000	1.62
Elm	1,907	1.18	5,762	3.34	a14,210	2.92
Hemlock	4,745	1.05	4,661	0.96	.....	.....
Oak	7,086	3.50	4,756	2.96	4,843	3.00
White pine	6,053	4.67	5,398	4.00	5,738	3.21
White and Norway pine	7,889	3.52	10,092	3.49	b1,357	1.85

a Includes one report of 160 acres, containing elm and basswood, averaging 30,000 feet per acre.
b Includes 1,012,800 acres of railway land which average but 1,154 feet per acre; the remaining 68,617 acres average 4,347 feet per acre.

CENTRAL GROUP.

The predominant species or groups of species found in this group of states comprise the broad leaved trees described by Prof. G. S. Sargent at the Tenth Census under the head of "The deciduous forest of the Mississippi basin and the Atlantic plain". Selected varieties of commercial importance are given in the following statement, which shows for each variety its average product of merchantable timber per acre, and the average value per 1,000 feet, board measure, on the stump:

TIMBERED LAND, CENTRAL GROUP, BY STATES: 1890.

[Board measure.]

VARIETIES.	OHIO.		INDIANA.		ILLINOIS.		WEST VIRGINIA.		KENTUCKY.		TENNESSEE.		MISSOURI.	
	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.
Ash	7,073	$5.24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3,522	$0.77
Beech	9,756	2.21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cherry	.....	.....	.....	.....	.....	.....	500	$6.52	.....	.....	.....	.....	.....	.....
Chestnut	.....	.....	.....	.....	.....	.....	12,000	1.50	.....	.....	.....	.....	.....	.....
Cottonwood	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6,045	$0.77	10,556	0.68
Cypress	.....	.....	.....	.....	5,000	$1.00	.....	.....	.....	.....	.....	.....	5,896	0.71
Elm	8,435	3.35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gum	.....	.....	10,518	$3.98	.....	.....	.....	.....	9,442	$1.70	6,852	1.97	3,186	0.65
Hickory	1,000	4.00	.....	.....	.....	.....	.....	.....	9,557	1.53	.....	.....	2,400	3.00
Maple	3,733	2.57	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Oak	11,077	4.30	6,383	4.75	2,986	2.90	7,096	2.00	5,115	1.58	3,587	1.35	4,252	1.80
Pine	5,000	1.38	.....	.....	.....	.....	5,604	1.64	.....	.....	4,388	1.24	5,009	1.23
Poplar	9,273	3.04	5,505	5.46	.....	.....	2,253	2.10	3,096	1.79	4,358	2.07	2,400	3.00
Spruce	.....	.....	.....	.....	.....	.....	14,994	2.50	.....	.....	.....	.....	.....	.....
Sycamore	5,000	2.00	.....	.....	9,761	2.05	.....	.....	.....	.....	.....	.....	10,000	1.50

SOUTHERN GROUP.

The manufacture of lumber and the utilization of forest material constitute an important part of the extensive industrial development which has occurred in the southern states during the last decade. The consumption of the pine of North Carolina, Alabama, Mississippi, Louisiana, Texas, and Arkansas has been enormously increased, and the products have obtained a much wider domestic distribution, due to increased railway facilities and the constantly decreasing supply of timber in the older lumbering sections of the country. The following statement shows for the respective states comprising this group the average growth per acre and the average stumpage value in 1890 of selected varieties of timber of commercial importance:

TIMBERED LAND, SOUTHERN GROUP, BY STATES: 1890.

[Board measure.]

VARIETIES.	MARYLAND.		VIRGINIA.		NORTH CAROLINA.		SOUTH CAROLINA.		GEORGIA.		FLORIDA.		ALABAMA.		MISSISSIPPI.		LOUISIANA.		ARKANSAS.		TEXAS.	
	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.
Ash							3,000	$1.00											2,000	$1.50		
Cedar													15,825	$0.76							10,000	$0.76
Chestnut	1,000	$4.00																				
Cottonwood																			7,714	0.61	5,000	0.50
Cypress			6,769	$1.27	5,000	$1.48					14,698	$0.64	2,000	1.00	8,808	$1.61	8,254	$1.05	4,830	1.00		
Gum															5,723	0.59			9,840	0.54	2,000	0.75
Hemlock	15,000	2.50																				
Magnolia																	9,000	2.00				
Oak	5,401	3.56	8,779	1.18	8,868	1.22	6,500	3.44	8,600	$0.53			8,061	1.49	1,249	2.27			4,511	1.17	1,904	4.97
Poplar			10,000	1.48	9,310	4.69	2,000	1.50											5,000	1.25		
Walnut																			30,000	1.00		
Yellow pine	6,829	2.30	5,882	1.02	4,983	1.22	4,614	1.20	4,151	0.78	2,948	0.93	7,172	0.78	6,825	0.96	9,051	0.55	5,574	0.68	6,436	0.92

PACIFIC GROUP.

Among the various industrial groups of states, the Pacific group shows the greatest percentage of increase in lumber manufacture, this increase being caused principally by the great development in the state of Washington, which contains the heaviest continuous belt of forest growth in the United States.

The timber of California, Oregon, and Washington is noted for its great size and economic value, although its commercial value has just begun to appreciate, coincident with its increasing utilization for domestic consumption.

The following statement shows for the respective states composing this group the average growth per acre of selected varieties of commercial timber and their average value on the stump per 1,000 feet, board measure:

TIMBERED LAND, PACIFIC GROUP, BY STATES: 1890.

[Board measure.]

VARIETIES.	CALIFORNIA.		OREGON.		WASHINGTON.	
	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.	Average product per acre in feet.	Average value per 1,000 feet.
Cedar			20,353	$0.43	37,050	$0.59
Fir	12,425	$1.25	35,054	0.55	26,084	0.95
Pine	16,031	1.48	19,020	0.76	18,858	1.06
Redwood	51,749	1.14				

CALIFORNIA REDWOOD.

The narrow belt of redwood which extends along the western slopes of the coast range from the Bay Monterey to the northern boundary of the state is the most important forest of similar extent now standing. Few trees equal the redwood in economic value. No other forest can compare with this in productive capacity, and no other great body of timber in North America is so generally accessible or so easily worked. Single trees capable of producing 75,000 feet of lumber are not uncommon, while a yield of from 1,000,000 to 2,000,000 feet of lumber per acre is by no means rare.

Previous to 1880 the redwood had been practically destroyed in the neighborhood of San Francisco bay, both north and south, and through the entire extent of this forest the trees most accessible to streams and railroads had been culled. Heavy bodies of redwood are still standing, however, in the Santa Cruz region, and in Humboldt county, in the valleys of the Eel and Mud rivers, and Redwood creek. The largest number of mills engaged in the manufacture of redwood are located upon Humboldt bay, principally at Eureka and Arcata.

The following estimates of the quantity of accessible redwood standing within the limits of the Pacific coast redwood belt in 1890 were prepared by Mr. A. C. Tibbetts, secretary of the Humboldt Lumber Manufacturers' Association:

REDWOOD.

	FEET (B. M.).
Total	97,504,800,000
From Oregon boundary to the mouth of Redwood creek	12,012,000,000
From the mouth of Redwood creek to the mouth of Mud river	11,472,000,000
From the mouth of Mud river to the mouth of Eel river	11,232,000,000
From the mouth of Eel river to the mouth of Matole river	14,256,000,000
From the mouth of the Matole river to the mouth of Catonavia creek	12,864,000,000
From the mouth of Catonavia creek to the mouth of Russian river	34,668,800,000
In the Santa Cruz region	1,000,000,000

ESTIMATED CUT FOR THE CENSUS YEAR ENDING MAY 31, 1890.

	FEET (B. M.).
Total	317,274,000
Sawed lumber	237,274,000
Sawed shingles and shakes	25,000,000
Split railroad ties	40,000,000
Split posts, shakes, etc	15,000,000

COMPARATIVE VALUES OF RAW MATERIAL AND PRINCIPAL PRODUCT.

The statement on the following page contains (1) the average value per 1,000 feet, board measure, of all timber reported as standing in each state; (2) the average value on the stump of the standing timber which was used by mill establishments; (3) the average price paid for logs bought by mill establishments; (4) the average value at the mill of sawed lumber of all kinds reported in feet, board measure.

VALUES OF RAW MATERIAL AND PRODUCT PER 1,000 FEET, BOARD MEASURE, BY STATES AND TERRITORIES: 1890.

STATES AND TERRITORIES.	Average value on stump of all standing timber reported.	LUMBER MILLS AND SAW MILLS.		
		Average value on stump of standing timber manufactured during year.	Average cost of logs bought.	Average value of sawed lumber.
The United States	$1.89	$2.52	$7.08	$11.41
Eastern group	2.03	2.10	7.27	11.19
Maine	1.48	2.14	7.95	11.73
New Hampshire	2.03	1.96	6.67	10.87
Vermont	1.91	1.85	6.28	10.93
Massachusetts	3.30	2.49	8.78	14.11
Rhode Island	4.02	2.63	11.90	16.91
Connecticut	4.15	4.07	12.86	18.70
New York	1.99	1.89	7.96	11.79
Pennsylvania	2.25	2.14	6.22	10.24
New Jersey	5.60	4.05	11.80	19.08
Delaware	2.26	1.85	7.50	11.43
Lake group	3.26	3.78	7.01	11.53
Michigan	2.80	4.08	6.76	11.72
Wisconsin	3.81	3.58	7.08	11.26
Minnesota	3.32	2.82	7.74	11.47
Central group	2.44	2.70	8.42	14.19
Ohio	3.17	3.08	8.43	14.81
Indiana	5.03	6.06	9.67	16.79
Illinois	2.68	3.16	9.67	14.90
West Virginia	2.16	2.14	7.86	13.14
Kentucky	4.01	1.59	7.45	13.05
Tennessee	1.49	1.50	7.22	12.68
Missouri	1.24	1.25	8.18	11.73
Southern group	0.98	0.90	5.52	9.50
Maryland	2.86	2.68	7.34	12.11
Virginia	1.26	1.14	5.41	9.62
North Carolina	1.56	1.05	4.61	8.57
Southern group—Continued.				
South Carolina	$0.99	$0.92	$4.11	$8.51
Georgia	0.86	0.81	4.94	8.85
Florida	0.99	0.79	5.60	10.21
Alabama	0.87	0.90	5.89	9.28
Mississippi	0.61	0.94	4.60	9.68
Louisiana	0.94	0.91	7.34	12.66
Arkansas	1.03	0.81	5.60	9.44
Texas	0.87	0.75	5.37	9.03
Pacific group	0.94	1.13	5.67	11.08
California	1.07	1.52	5.95	12.62
Oregon	0.62	1.00	5.25	10.39
Washington	0.62	0.81	5.73	10.61
Miscellaneous group	1.28	1.44	9.62	13.04
Alaska	.....	.....	5.14	13.89
Arizona	.....	1.00	9.75	19.98
Colorado	1.10	1.14	5.22	11.76
Idaho	1.00	10.00	20.17	31.92
Indian territory	1.09	0.52	8.02	11.28
Iowa	3.65	4.09	10.72	13.72
Kansas	3.60	6.12	8.39	16.23
Montana	0.99	0.51	5.82	10.71
Nebraska	2.18	1.54	5.86	11.32
New Mexico	1.69	1.56	7.24	11.23
North Dakota	4.00	.....	5.25	10.33
Oklahoma	.....	.....	7.02	13.13
South Dakota	2.03	1.88	4.78	12.09
Utah	3.25	1.36	6.96	13.13
Wyoming	1.00	1.00	6.34	15.37

The difference between the cost of the raw material and the value of its product, as presented in this report, represents the cost of manufacture and profit, and its variation is due to local causes, such as the weight of crude material and cost of its transportation, proximity to market, mechanical and other methods of manufacture, also to the variety or kind of lumber used and character of product.

Table 1 presents in comparison the data relating to the lumber and saw mill industry as reported at the censuses of 1870, 1880, and 1890; only such items are shown as are common to the three census periods, therefore some of the totals do not agree with those shown in Table 2. This is caused by the difference in the form and scope of the inquiry of the census of 1890 as compared with those of preceding censuses, which necessitates the consolidation of some items for comparative purposes.

Table 2 shows in detail, by states and territories, the statistics relating to "Lumber mills and saw mills" as reported at the census of 1890.

Table 3 is a presentation of employés, average number of months employed, and average monthly earnings per employé for the lumber mill and saw mill industry. It shows, by totals for each state and territory, the average number of males above 16 years, females above 15 years, and children, with their average term of employment and average monthly earnings per employé, distributed into the following classes: (1) officers or firm members actively engaged in the industry or in supervision; (2) clerks; (3) operatives, skilled and unskilled. The employés classed as "Operatives, skilled and unskilled", are distributed into the four branches of the industry as conducted by milling establishments, namely: operations in the woods; transportation; mill operations other than planing mill, and planing mill. The classes "Officers and firm members" and "clerks" are not reported as engaged exclusively in any particular branch of the industry, therefore no subdivision of these two classes is shown.

Table 4 shows the various monthly rates of wages paid, and the average number of men, women, and children, except pieceworkers, employed at each rate for each of the four branches of the industry enumerated in the description of Table 3.

Table 5 presents in detail, by states and territories, the statistics concerning establishments engaged in the manufacture of timber products other than those produced by milling establishments.

Tables 6 and 7 show the data concerning employés and wages for this class of establishments.

Table 8 shows detailed statistics for the manufacture of tar and turpentine.

The average number of months employed and the average monthly earnings, as shown in Tables 3 and 6, are computed from individual returns. The average number of employés reported by each establishment is multiplied by the number of months embraced by the term of operation. Aggregating such results of individual returns, the number of months required for 1 employé to perform the labor is obtained. This number divided by the number of employés gives the true average number of months employed, and divided into the total wages, the true average monthly earnings.

The totals for some items shown in the accompanying tables will not agree with the totals for apparently the same items given in the tables on manufactures in Part I. This is due to the fact that the tables in Part I present the figures under general heads common to all classes of industry, which necessitates combinations of a different character from those adopted for this report.

TABLE 1.—COMPARATIVE STATEMENT, LUMBER MILLS AND SAW MILLS, BY STATES AND TERRITORIES: 1870, 1880, AND 1890.

STATES AND TERRITORIES.	Year.	Number of establishments reporting.	Capital. (b)	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES. (a) Aggregates. Average number.	Aggregates. Total wages.	Males above 16 years.	Females above 15 years.	Children.	Cost of materials used. (c)	Value of products, including receipts from custom work and repairing.
The United States	d1870	25,832	$143,493,232	149,997	$40,009,162	146,047	682	3,268	$103,343,430	$210,159,327
	1880	25,708	181,186,122	147,956	31,845,974	141,564	425	5,967	146,155,385	243,268,729
	1890	21,011	496,339,968	286,197	87,784,433	280,467	2,462	3,268	231,555,618	403,667,575
Alabama	1870	284	744,005	1,428	357,195	1,411	8	9	520,513	1,359,083
	1880	354	1,545,655	1,647	424,156	1,611	.....	36	1,608,635	2,649,634
	1890	437	7,225,170	6,123	1,836,721	5,949	8	166	4,481,362	8,135,996
Alaska (e)	1870	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1880	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1890	10	105,727	86	22,173	86	.....	.....	30,198	58,440
Arizona	1870	1	5,000	16	6,000	16	.....	.....	1,600	10,000
	1880	13	102,450	79	33,375	77	.....	2	131,786	215,918
	1890	4	212,975	97	58,150	97	.....	.....	126,765	248,795
Arkansas	1870	211	694,400	1,107	255,186	1,075	6	26	546,059	1,344,403
	1880	319	1,067,840	1,744	237,394	1,690	.....	54	1,070,395	1,793,818
	1890	523	6,818,943	6,712	2,068,870	6,658	12	42	4,783,378	8,800,017
California	1870	291	3,856,440	4,077	1,620,626	4,059	12	6	1,986,119	5,227,064
	1880	251	6,454,718	3,434	1,095,736	3,423	.....	11	2,242,503	4,428,950
	1890	221	15,833,636	4,588	1,994,565	4,551	31	6	4,356,045	8,453,964
Colorado	1870	32	132,700	218	78,711	217	1	.....	117,075	324,370
	1880	96	481,200	877	112,931	870	.....	7	700,294	1,051,295
	1890	109	838,656	904	323,413	897	7	.....	609,693	1,172,190
Connecticut	1870	393	775,391	908	242,990	908	.....	.....	940,665	1,541,038
	1880	300	657,300	707	178,336	699	.....	8	641,569	1,076,455
	1890	157	1,010,656	754	269,788	753	1	.....	741,942	1,236,736
Dakota (f)	1870	10	37,400	68	14,256	66	.....	2	32,772	72,280
	1880	39	113,750	290	54,974	286	.....	4	281,875	435,792
	1890	46	370,085	500	124,070	497	3	.....	216,802	451,882
Delaware	1870	80	290,424	311	70,823	308	.....	3	229,856	405,041
	1880	86	259,250	391	40,604	378	.....	13	243,375	411,060
	1890	47	252,791	560	104,386	490	.....	70	193,096	397,057
District of Columbia	1870	1	1,500	15	1,800	10	.....	5	20,000	30,000
	1880	1	25,000	25	6,000	25	.....	.....	34,000	50,000
	1890	(g)	.....	.....	.....	.....	.....	.....	.....	.....
Florida	1870	104	755,090	1,116	421,820	1,091	2	23	1,163,238	2,235,780
	1880	135	2,219,550	2,030	562,249	1,945	.....	85	1,867,213	3,060,291
	1890	202	5,398,499	4,239	1,398,120	4,147	29	63	2,733,322	5,424,307
Georgia	1870	532	1,718,473	2,976	667,628	2,913	11	52	1,616,527	4,044,375
	1880	655	3,101,452	3,392	554,085	3,298	.....	94	3,197,155	4,875,310
	1890	434	4,884,568	5,917	1,572,284	5,784	32	101	3,263,027	6,306,095
Idaho	1870	10	50,750	47	17,924	47	.....	.....	20,177	56,850
	1880	48	192,460	173	83,367	169	.....	4	230,566	349,635
	1890	41	419,880	372	125,220	368	2	2	187,007	429,990
Illinois	1870	511	2,542,530	3,100	817,212	3,059	2	39	2,163,655	4,546,769
	1880	640	3,295,485	3,851	787,867	3,652	.....	199	3,144,905	5,003,037
	1890	357	4,056,562	4,314	1,147,784	4,235	8	71	2,893,684	5,090,940
Indiana	1870	1,861	5,975,746	9,446	1,901,612	9,097	7	342	5,563,985	12,324,755
	1880	2,022	7,048,088	10,339	1,571,740	9,926	.....	413	9,027,097	14,260,830
	1890	1,603	11,238,573	15,822	4,773,752	15,269	251	302	10,568,376	19,964,293

a For purposes of comparison only the employés engaged at the mill and their wages are shown for 1890.
b Value of hired property is not included in the capital reported in 1890, because it was not included in the reports of previous census years.
c In 1890, for purposes of comparison, includes wages reported under the heads of "Logging" and "Cost of keep of animals", shown in Table 2.
d See remarks in regard to the depreciated currency of 1870, page 595; the totals for 1870 include the statistics reported for "Staves, shooks, and heading".
e No report received prior to 1890.
f North and South Dakota combined for 1890 to compare with Dakota territory for 1870 and 1880.
g None reported in 1890.

TABLE I.—COMPARATIVE STATEMENT, LUMBER MILLS AND SAW MILLS, ETC.—Continued.

STATES AND TERRITORIES.	Year.	Number of establishments reporting.	Capital.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES. Aggregates. Average number.	Aggregates. Total wages.	Males above 16 years.	Females above 15 years.	Children.	Cost of materials used.	Value of products, including receipts from custom work and repairing.
Indian territory (a)	1870	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1880	.....	.....	.....	.....	.....	.....	.....	.....	.....
	1890	3	$16,000	39	$12,800	39	.....	.....	$23,900	$41,950
Iowa	1870	545	3,925,001	3,782	995,962	3,563	17	202	3,302,782	5,794,285
	1880	328	4,946,390	2,989	825,244	2,526	.....	463	4,141,885	6,185,028
	1890	137	17,487,825	7,011	2,153,582	6,647	99	265	7,945,831	11,829,065
Kansas	1870	195	642,955	1,161	282,602	1,153	1	7	822,028	1,736,381
	1880	146	262,975	516	66,757	507	.....	9	447,449	682,097
	1890	27	70,865	120	16,179	118	.....	2	43,298	85,521
Kentucky	1870	562	1,724,686	2,497	482,683	2,425	13	59	1,805,591	3,602,086
	1880	670	2,290,558	2,601	671,939	2,506	1	94	2,410,743	4,064,361
	1890	595	6,554,974	6,782	1,798,855	6,666	8	108	4,370,822	7,869,082
Louisiana	1870	152	541,800	1,054	284,953	1,038	2	14	519,938	1,212,037
	1880	175	903,950	976	200,063	943	.....	33	1,187,059	1,764,640
	1890	122	5,586,598	3,091	1,249,460	3,039	38	14	3,073,144	5,599,744
Maine	1870	1,099	6,614,875	8,506	2,449,132	8,463	2	41	6,872,723	11,395,747
	1880	848	6,339,396	6,663	1,161,142	6,480	.....	183	4,951,957	7,933,868
	1890	831	11,883,447	8,932	2,519,609	8,765	107	60	5,950,780	10,907,438
Maryland	1870	391	1,055,600	1,245	259,551	1,229	.....	16	674,858	1,501,471
	1880	369	1,237,694	1,239	223,786	1,216	.....	23	1,106,795	1,813,332
	1890	212	1,449,795	1,678	389,747	1,588	31	59	840,257	1,595,282
Massachusetts	1870	644	2,054,829	2,291	569,300	2,266	.....	25	2,065,375	3,556,870
	1880	606	2,486,340	1,970	431,612	1,940	.....	30	1,904,105	3,120,184
	1890	464	5,002,033	3,214	1,194,253	3,195	15	4	2,682,932	5,109,998
Michigan	1870	1,571	26,990,450	20,058	6,400,283	19,252	63	743	14,347,661	31,946,396
	1880	1,649	39,260,428	24,235	6,967,905	22,732	143	1,360	32,251,372	52,449,928
	1890	1,918	110,990,328	46,592	14,677,436	45,799	299	494	45,695,543	73,484,306
Minnesota	1870	207	3,311,140	2,952	880,028	2,899	14	39	2,193,965	4,299,162
	1880	234	6,771,145	2,854	924,473	2,732	22	100	4,529,055	7,366,038
	1890	317	28,321,062	10,783	3,383,765	10,740	16	27	13,670,811	21,013,010
Mississippi	1870	265	1,153,917	1,954	580,056	1,907	15	32	828,793	2,160,667
	1880	295	922,595	1,170	197,867	1,123	.....	47	1,219,116	1,920,335
	1890	338	4,433,229	4,434	1,287,391	4,374	22	38	2,852,530	5,670,774
Missouri	1870	806	3,241,670	3,900	1,031,513	3,789	11	100	3,428,235	6,363,112
	1880	881	2,867,970	3,503	669,644	3,408	.....	95	3,215,292	5,265,617
	1890	748	7,658,118	5,740	1,569,062	5,628	80	32	4,212,768	7,487,844
Montana	1870	31	146,000	161	80,965	161	.....	.....	172,098	430,957
	1880	36	208,200	142	47,945	142	.....	.....	278,098	527,695
	1890	30	831,323	629	325,497	628	1	.....	546,575	1,178,380
Nebraska	1870	50	152,200	202	47,102	202	.....	.....	118,975	278,205
	1880	38	93,375	140	29,313	136	.....	4	104,878	265,002
	1890	31	96,539	162	50,197	162	.....	.....	63,552	154,945
Nevada	1870	18	193,500	324	153,930	324	.....	.....	135,450	432,500
	1880	9	132,000	35	9,892	35	.....	.....	162,810	243,200
	1890	(b)	.....	.....	.....	.....	.....	.....	.....	.....
New Hampshire	1870	723	2,428,193	3,398	725,304	3,379	7	12	2,471,427	4,286,142
	1880	680	3,745,790	3,104	548,556	3,056	.....	48	2,272,991	3,812,012
	1890	531	6,222,380	4,651	1,459,929	4,490	116	45	2,471,838	5,017,002
New Jersey	1870	285	2,238,900	1,145	369,835	1,122	.....	23	1,612,802	2,745,317
	1880	284	1,657,395	768	179,693	760	.....	8	989,979	1,627,640
	1890	110	1,546,530	674	230,583	665	3	6	692,537	1,215,524
New Mexico	1870	12	47,100	63	35,425	63	.....	.....	40,083	121,225
	1880	26	74,675	172	24,240	172	.....	.....	117,055	173,930
	1890	26	193,335	330	161,981	328	2	.....	172,321	389,761
New York	1870	3,510	15,110,981	15,409	3,438,601	14,720	44	645	11,228,613	21,238,228
	1880	2,822	13,230,034	11,445	2,162,972	11,056	.....	389	9,119,263	14,356,910
	1890	1,664	20,734,448	13,164	3,598,607	12,729	216	219	8,716,806	16,457,811
North Carolina	1870	523	1,175,950	2,361	379,611	2,329	3	29	970,294	2,000,243
	1880	776	1,743,217	3,029	447,431	2,938	.....	91	1,577,139	2,672,796
	1890	688	5,319,589	6,651	1,336,895	6,580	17	54	3,007,183	5,767,687
North Dakota (c)	1890	5	118,830	138	25,810	138	.....	.....	36,045	76,173
Ohio	1870	2,230	6,191,679	8,237	1,535,909	8,046	12	179	5,038,678	10,235,180
	1880	2,352	7,944,412	9,317	1,708,300	8,769	.....	548	8,896,106	13,864,460
	1890	1,427	11,735,666	13,056	3,722,951	12,639	82	335	7,592,798	15,161,730
Oklahoma (d)	1890	8	16,605	35	6,570	35	.....	.....	13,900	27,260
Oregon	1870	165	913,262	692	261,785	666	2	4	358,273	1,014,211
	1880	228	1,577,875	579	242,154	566	.....	13	1,331,342	2,030,463
	1890	300	7,542,835	3,777	1,660,671	3,752	21	4	2,979,202	5,994,915

a No report received prior to 1890.
b None reported in 1890.
c See Dakota.
d Part of Indian territory prior to 1890.

TABLE 1.—COMPARATIVE STATEMENT, LUMBER MILLS AND SAW MILLS, ETC.—Continued.

STATES AND TERRITORIES.	Year.	Number of establishments reporting.	Capital.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES. Aggregates. Average number.	Total wages.	Males above 16 years.	Females above 15 years.	Children.	Cost of materials used.	Value of products, including receipts from custom work and repairing.
Pennsylvania	1870	3,739	$24,804,304	17,427	$5,261,576	17,278	15	134	$14,940,096	$28,938,085
	1880	2,827	21,418,588	14,914	2,918,459	14,443	8	463	13,955,430	22,457,359
	1890	1,853	43,522,780	18,663	5,466,123	18,365	114	184	15,362,468	27,772,834
Rhode Island	1870	81	161,200	204	39,826	194	1	9	157,079	257,258
	1880	49	144,250	152	33,143	139	.....	13	120,888	240,579
	1890	29	125,921	186	62,108	185	1	.....	112,766	244,490
South Carolina	1870	227	583,425	1,212	209,806	1,183	1	28	581,499	1,197,005
	1880	420	1,056,265	1,468	221,063	1,431	.....	37	1,237,361	2,031,507
	1890	328	1,727,215	2,445	427,133	2,445	.....	.....	974,782	1,982,583
South Dakota (a)	1890	41	251,255	362	98,260	359	3	.....	180,757	375,709
Tennessee	1870	702	1,622,741	2,910	578,364	2,868	7	35	1,446,782	3,390,687
	1880	755	2,004,503	3,718	549,222	3,577	.....	141	2,142,885	3,744,905
	1890	787	7,186,127	8,148	2,194,615	8,004	22	122	5,019,282	8,941,995
Texas	1870	324	870,491	1,750	390,149	1,714	15	21	644,274	1,960,851
	1880	324	1,660,952	3,186	732,914	3,136	1	49	2,096,775	3,673,449
	1890	284	10,674,707	6,820	2,572,921	6,789	9	31	6,322,076	11,328,257
Utah	1870	95	338,500	541	139,533	538	.....	3	266,047	661,431
	1880	107	272,750	385	65,175	375	.....	10	238,274	375,164
	1890	30	196,983	228	61,756	227	1	.....	126,932	294,820
Vermont	1870	637	2,872,451	2,782	729,925	2,761	6	15	1,731,516	3,525,122
	1880	688	3,274,250	2,511	426,953	2,411	.....	100	2,021,868	3,258,816
	1890	736	7,615,495	6,381	1,699,847	6,271	53	57	3,823,608	6,843,817
Virginia	1870	605	979,386	2,283	343,823	2,254	16	13	860,949	2,111,055
	1880	907	2,122,925	4,011	540,231	3,922	.....	89	1,983,777	3,434,163
	1890	638	4,364,702	5,980	1,361,638	5,555	337	88	2,905,958	5,541,825
Washington	1870	46	1,285,202	474	388,830	474	.....	.....	580,259	1,307,585
	1880	37	2,456,450	499	200,539	495	.....	4	1,188,075	1,734,742
	1890	310	19,445,429	7,637	4,060,231	7,601	25	11	7,930,443	15,067,627
West Virginia	1870	343	981,950	1,515	349,368	1,484	3	28	682,180	1,478,399
	1880	472	1,668,920	2,183	459,945	2,057	.....	126	1,375,372	2,431,857
	1890	428	4,541,072	4,308	1,164,254	4,255	10	43	2,968,511	5,239,340
Wisconsin	1870	720	11,448,545	12,461	3,755,089	11,795	362	304	7,422,866	15,130,719
	1880	704	19,824,059	8,465	2,257,218	7,748	250	467	12,471,473	17,952,347
	1890	853	84,419,243	32,755	10,046,413	32,281	332	142	33,212,511	52,115,739
Wyoming	1870	8	110,500	213	104,500	211	1	1	99,000	268,000
	1880	7	26,700	38	6,380	38	.....	.....	27,350	40,990
	1890	17	160,049	113	42,078	111	1	1	52,166	124,462

a See Dakota.

TABLE 2.—DETAILED STATEMENT, LUMBER MILLS AND

	STATES AND TERRITORIES.	Number of establishments reporting.	CAPITAL.								
			Value of hired property.	Direct investment.							
				Aggregate.	Timbered land (tributary to mill).	Logging (conducted by milling establishments).					
						Total.	Tools, implements, and live stock.	Railways and equipment.	Canals or chutes.	River improvements.	Vessels used in transportation.
1	The United States	21,011	$9,170,707	$496,339,968	$129,124,147	$60,442,226	$13,695,450	$10,555,328	$462,011	$2,232,188	$3,743,422
2	Alabama	437	145,420	7,225,170	1,452,039	1,477,428	321,502	717,105	125,301	19,250	30,300
3	Alaska	10	21,350	105,727	.....	2,198	478	.....	.....	.....	1,720
4	Arizona	4	.....	212,975	.....	100,000	50,000	.....	.....	.....	.....
5	Arkansas	523	145,720	6,818,943	1,570,740	785,696	334,083	311,970	5,400	5,825	41,580
6	California	221	64,600	15,833,636	6,042,554	3,674,633	662,983	1,897,948	69,050	72,300	486,878
7	Colorado	109	31,781	838,656	77,710	160,381	126,946	400	3,500	250	200
8	Connecticut	157	43,780	1,010,656	92,040	59,027	37,032	.....	.....	.....	150
9	Delaware	47	24,196	252,791	37,410	28,847	20,447	.....	.....	.....	2,000
10	Florida	202	128,110	5,398,499	1,157,426	705,920	149,010	442,115	2,500	5,050	56,100
11	Georgia	434	86,225	4,884,568	1,056,915	1,070,560	419,213	577,391	200	1,710	14,350
12	Idaho	41	9,250	419,880	12,600	67,225	33,075	1,400	3,300	1,000	.....
13	Illinois	357	257,015	4,056,562	236,691	265,951	78,424	390	.....	2,800	35,750
14	Indiana	1,603	596,048	11,238,573	771,040	691,632	338,059	2,591	110	100	66
15	Indian territory	3	.....	16,000	.....	400	400	.....	.....	.....	.....
16	Iowa	137	161,760	17,487,825	3,990,528	1,398,050	48,525	2,550	5,000	2,600	23,174
17	Kansas	27	5,075	70,865	4,210	7,775	6,350	75	.....	.....	.....
18	Kentucky	595	372,734	6,554,974	369,360	427,701	119,324	44,260	9,590	54,150	2,175
19	Louisiana	122	71,130	5,586,598	698,963	668,439	148,881	175,640	.....	.....	10,500
20	Maine	831	448,146	11,883,447	1,678,897	1,516,734	483,120	2,260	13,285	56,750	145,350
21	Maryland	212	116,970	1,449,795	208,980	141,755	72,495	4,425	.....	12,000	22,500
22	Massachusetts	464	247,950	5,002,033	320,240	332,171	200,711	2,085	.....	75,644	.....
23	Michigan	1,918	863,150	110,990,328	35,585,723	14,806,556	2,595,190	1,233,509	7,967	425,191	1,651,618
24	Minnesota	317	314,175	28,321,062	5,860,444	4,547,065	664,837	109,200	24,038	281,597	74,500
25	Mississippi	338	155,300	4,433,229	745,253	598,851	131,535	312,373	2,400	.....	44,700
26	Missouri	748	312,795	7,658,118	1,107,314	734,904	251,914	135,481	400	2,260	52,000
27	Montana	30	.....	831,323	17,780	61,060	32,795	2,000	.....	25,050	.....
28	Nebraska	31	34,400	96,539	4,200	2,240	1,750	.....	.....	.....	.....
29	New Hampshire	531	230,060	6,222,380	1,208,350	476,635	280,215	80,700	20,200	4,250	1,000
30	New Jersey	110	91,775	1,546,530	102,951	49,230	38,130	50	.....	.....	.....
31	New Mexico	26	6,750	193,335	4,890	31,100	28,050	.....	.....	.....	.....
32	New York	1,664	933,260	20,734,448	3,477,995	2,306,560	524,141	185,400	3,850	95,950	50,680
33	North Carolina	688	91,622	5,319,589	1,128,912	523,465	207,302	157,845	1,620	9,269	43,800
34	North Dakota	5	.....	118,830	8,120	.....	.....	.....	.....	.....	.....
35	Ohio	1,427	984,075	11,735,666	1,281,075	987,921	320,313	23,510	2,050	.....	11,180
36	Oklahoma	8	8,400	16,605	.....	.....	.....	.....	.....	.....	.....
37	Oregon	300	89,100	7,542,835	1,744,731	926,802	260,109	211,891	18,175	32,825	92,425
38	Pennsylvania	1,853	975,450	43,522,780	15,338,632	4,747,921	928,380	1,200,889	27,660	190,099	3,230
39	Rhode Island	20	22,250	125,921	11,150	6,370	4,570	.....	.....	.....	.....
40	South Carolina	328	78,225	1,727,215	380,633	333,333	161,000	132,475	8,150	3,000	3,150
41	South Dakota	41	7,100	251,255	22,400	28,650	23,850	.....	.....	.....	.....
42	Tennessee	787	262,950	7,186,127	554,775	402,292	183,784	30,357	5,325	5,050	5,720
43	Texas	284	84,515	10,674,707	2,806,901	1,256,612	356,995	730,615	900	21,287	35,675
44	Utah	30	12,900	196,983	2,100	20,021	8,471	.....	.....	1,000	.....
45	Vermont	736	95,540	7,615,495	1,439,680	754,603	366,933	153,450	4,600	33,025	2,750
46	Virginia	638	176,700	4,364,792	647,302	490,348	248,805	152,343	400	3,675	6,600
47	Washington	310	133,200	19,445,429	3,820,172	975,376	279,038	191,923	33,760	18,259	171,400
48	West Virginia	428	15,800	4,541,072	852,011	540,051	149,859	118,035	7,460	37,750	1,200
49	Wisconsin	853	206,455	84,419,243	31,181,210	11,149,790	1,995,001	1,150,677	55,820	733,231	610,001
50	Wyoming	17	7,500	160,049	2,100	1,947	1,375	.....	.....	.....	.....

SAW MILLS, BY STATES AND TERRITORIES: 1890.

CAPITAL—continued.												
Direct investment—Continued.												
Logging, etc.—Continued.		Mill plant.										
			Lumber and saw mills.				Planing mills operated by lumber manufacturers.					
Saw logs, bolts, hewed timber, ties, posts, etc. (not delivered at mill).	All other capital invested specifically in logging.	Total.	Total.	Land.	Buildings.	Machinery, tools, and implements.	Total.	Land.	Buildings.	Machinery, tools, and implements.	Dry kilns.	
$25,178,891	$4,574,936	$134,513,342	$121,562,226	$25,075,154	$28,760,003	$67,727,069	$11,244,354	$2,328,131	$2,513,531	$6,402,692	$1,706,762	1
188,400	75,570	2,790,443	2,272,771	373,282	515,004	1,384,485	292,093	39,710	74,690	177,693	225,579	2
.....	.....	94,505	88,205	4,250	26,350	57,605	6,300	.....	.....	6,300	.....	3
5,000	45,000	80,200	65,200	600	10,500	54,100	15,000	.....	5,000	10,000	.....	4
60,554	26,284	2,533,013	2,149,340	348,442	442,826	1,358,072	310,811	26,673	64,497	219,641	72,802	5
385,538	99,936	2,997,654	2,801,679	392,420	822,635	1,586,624	184,975	19,280	34,195	131,500	11,000	6
9,695	19,390	278,245	219,295	16,745	22,950	179,600	58,450	18,900	10,500	29,050	500	7
18,395	3,450	503,261	488,361	158,750	114,025	215,586	14,400	1,550	3,150	9,700	500	8
6,200	200	132,660	125,310	18,665	26,545	80,100	7,350	400	2,300	4,650	.....	9
44,350	6,795	2,236,115	2,034,215	511,302	396,025	1,126,888	184,038	24,595	38,383	121,060	17,862	10
18,102	39,594	1,818,299	1,672,080	159,191	376,123	1,137,366	125,063	13,895	25,125	86,043	20,556	11
25,000	3,450	190,400	173,500	17,210	29,715	126,575	16,900	.....	2,800	14,100	.....	12
137,387	11,200	1,279,565	1,190,830	190,240	236,847	763,743	73,135	7,025	17,160	48,950	15,600	13
285,630	65,076	4,422,715	4,050,830	639,212	742,730	2,677,888	324,435	26,630	99,765	198,040	38,450	14
.....	.....	6,000	6,000	400	300	5,300	.....	.....	.....	.....	.....	15
1,115,581	200,620	3,082,964	2,757,314	629,898	636,135	1,491,281	279,050	36,000	48,200	194,850	46,600	16
1,200	150	42,280	35,680	1,460	2,770	31,450	6,500	.....	2,500	4,000	100	17
171,817	26,385	2,538,593	2,319,648	261,828	597,280	1,460,540	195,345	17,960	49,885	127,500	23,540	18
226,456	97,962	2,089,452	1,849,402	552,620	328,438	968,344	203,625	77,925	51,700	74,000	36,425	19
703,544	112,425	4,256,120	4,047,467	785,586	1,351,520	1,910,361	189,837	31,970	56,562	101,305	18,825	20
24,640	5,695	635,581	586,356	76,978	105,060	404,318	49,075	8,650	7,575	32,850	150	21
34,856	18,875	2,142,745	1,898,175	528,185	571,458	798,532	221,045	51,725	63,975	105,345	23,525	22
8,478,133	414,948	22,055,487	21,195,746	4,009,096	5,196,922	11,989,728	761,854	149,730	173,343	438,781	97,887	23
2,187,736	1,145,157	6,909,265	6,027,731	1,912,326	1,165,250	2,950,155	872,817	359,485	165,021	357,311	68,717	24
93,740	14,103	1,856,423	1,501,053	162,435	350,430	988,188	280,225	18,850	90,925	170,450	75,145	25
268,031	24,818	3,314,990	2,703,430	894,891	450,937	1,357,602	577,670	406,065	42,025	129,580	33,890	26
845	370	200,300	172,875	25,375	33,150	114,350	23,425	600	4,825	18,000	4,000	27
490	.....	51,895	51,895	3,470	9,500	38,925	.....	.....	.....	.....	.....	28
66,295	23,975	2,366,999	2,213,259	362,934	787,859	1,062,466	133,115	23,655	34,600	74,860	20,625	29
7,600	3,450	760,417	673,717	368,712	123,905	181,100	86,400	51,450	9,750	25,200	300	30
2,000	1,050	108,637	106,236	3,751	14,385	88,100	2,401	1	200	2,200	.....	31
1,215,090	231,449	8,037,385	7,336,508	1,837,528	2,206,735	3,292,245	612,427	83,875	150,480	378,072	88,450	32
66,400	37,229	2,449,756	2,109,241	291,728	381,018	1,436,495	165,385	16,425	29,360	119,600	175,130	33
.....	.....	58,300	54,300	9,800	6,950	37,550	4,000	.....	1,500	2,500	.....	34
507,978	62,890	5,067,882	4,684,297	887,494	985,382	2,811,421	358,635	59,300	94,125	205,210	24,950	35
.....	.....	11,380	11,380	280	1,350	9,750	.....	.....	.....	.....	.....	36
272,407	38,970	2,900,413	2,641,433	752,808	512,440	1,376,185	253,705	33,835	51,630	168,240	5,275	37
2,105,037	292,626	9,037,529	8,469,900	1,495,464	2,149,982	4,824,514	541,640	68,248	116,958	356,434	25,929	38
1,800	.....	76,735	70,735	13,870	17,115	39,750	6,000	.....	.....	6,000	.....	39
17,193	8,365	761,569	730,804	125,752	103,396	501,656	25,560	2,510	4,700	18,350	5,205	40
4,100	700	104,025	95,875	6,115	16,860	72,900	8,075	400	400	7,275	75	41
158,240	13,816	2,798,661	2,441,654	574,051	426,791	1,440,812	337,772	56,420	99,010	182,342	19,235	42
90,700	120,440	3,223,393	2,477,142	298,809	517,220	1,661,113	590,360	37,990	101,370	451,000	155,891	43
10,200	350	78,502	67,272	4,530	8,420	54,322	11,230	4,300	2,600	4,330	.....	44
144,470	49,325	2,642,782	2,365,357	310,145	791,027	1,264,185	245,915	26,310	43,600	176,005	31,510	45
35,678	42,847	2,078,284	1,773,063	408,614	262,787	1,101,662	193,236	32,905	55,965	104,366	111,985	46
209,105	71,900	8,016,691	7,225,703	2,329,706	1,517,282	3,378,715	712,330	282,300	88,850	341,180	78,658	47
165,198	60,549	1,309,417	1,159,159	131,341	169,371	858,447	118,661	12,600	29,086	76,915	31,597	48
5,547,568	1,057,492	13,943,589	12,299,266	2,185,563	3,189,303	6,924,400	1,544,089	202,929	459,246	881,914	100,234	49
512	60	81,877	61,877	1,302	9,000	51,575	20,000	4,000	6,000	10,000	.....	50

TABLE 2.—DETAILED STATEMENT, LUMBER MILLS AND

	STATES AND TERRITORIES.	CAPITAL—continued. Direct investment—Continued. Live assets. Total.	Logs and bolts at mill.	Lumber or other products on hand.	Cash, bills and accounts receivable, and all sundries not elsewhere reported.	MISCELLANEOUS EXPENSES. Total.	Rent paid for tenancy.	Taxes.	Insurance.	Repairs, ordinary, of buildings and machinery.	Amount paid for contract sawing.
1	The United States	$172,260,253	$31,437,143	$74,094,959	$66,728,151	$20,136,273	$825,598	$3,179,127	$2,922,030	$5,084,086	$261,368
2	Alabama	1,505,260	203,545	570,388	731,327	291,915	16,145	30,175	46,909	100,270	1,000
3	Alaska	9,024	2,874	4,579	1,571	5,252	2,227	.....	.....	3,025	.....
4	Arizona	32,775	5,150	26,750	875	10,485	.....	85	3,000	5,175	.....
5	Arkansas	1,929,494	219,284	838,787	871,423	279,852	13,770	37,604	34,699	97,571	.....
6	California	3,118,795	424,678	1,308,913	1,385,204	537,224	7,601	112,985	53,144	174,711	3,180
7	Colorado	322,320	11,042	133,399	177,879	45,767	2,940	6,763	1,771	18,939	.....
8	Connecticut	356,328	32,864	198,275	125,189	38,799	3,451	4,131	5,166	15,920	.....
9	Delaware	53,874	3,278	23,295	27,301	7,894	1,257	787	1,358	2,965	.....
10	Florida	1,299,038	174,799	538,784	585,455	265,080	15,895	31,000	39,117	75,131	525
11	Georgia	938,794	165,180	343,165	430,449	202,800	8,075	28,676	23,979	73,695	.....
12	Idaho	149,655	20,005	77,910	51,740	17,858	550	2,722	917	7,260	.....
13	Illinois	2,274,355	329,369	1,152,547	792,439	352,783	20,489	22,067	31,494	70,463	.....
14	Indiana	5,353,186	919,979	2,115,659	2,317,548	616,250	50,112	73,837	61,207	207,753	.....
15	Indian territory	9,000	3,400	3,000	3,200	1,000	.....	200	.....	200	.....
16	Iowa	9,016,283	355,706	4,108,847	4,551,730	633,997	12,298	67,634	104,446	139,510	.....
17	Kansas	16,600	1,700	7,975	6,925	4,109	277	409	226	1,230	.....
18	Kentucky	3,219,380	1,236,709	1,080,076	902,595	380,272	27,086	22,583	34,354	86,095	.....
19	Louisiana	2,129,744	578,730	581,161	969,853	213,535	7,626	28,370	45,037	54,883	.....
20	Maine	4,431,687	1,592,945	1,562,439	1,276,303	546,396	87,457	67,229	67,140	141,190	26,606
21	Maryland	463,479	68,861	206,696	187,922	54,246	10,318	6,309	6,804	17,464	.....
22	Massachusetts	2,206,877	563,537	856,109	787,231	312,654	21,647	34,085	36,117	60,495	.....
23	Michigan	38,542,562	5,623,802	16,990,104	15,928,656	4,258,006	81,092	992,414	675,082	971,551	.....
24	Minnesota	10,944,288	2,091,540	4,698,078	4,154,670	1,296,220	35,694	105,098	249,732	249,067	.....
25	Mississippi	1,232,702	261,232	404,331	567,139	205,833	12,805	27,158	19,397	82,128	.....
26	Missouri	2,500,910	185,707	1,373,371	941,832	305,757	19,388	33,381	36,795	85,589	.....
27	Montana	552,183	181,145	158,390	212,648	41,545	.....	5,019	3,815	11,599	.....
28	Nebraska	38,204	5,027	19,538	13,639	6,714	2,287	349	176	1,700	.....
29	New Hampshire	2,170,396	699,609	747,226	723,561	221,162	18,813	36,550	30,942	79,210	.....
30	New Jersey	633,932	168,534	199,949	265,449	48,089	7,799	6,115	6,520	8,631	.....
31	New Mexico	48,708	3,329	15,210	30,169	13,812	480	1,520	1,565	6,954	.....
32	New York	6,912,508	1,611,965	2,735,693	2,564,850	980,523	71,894	84,850	109,336	213,647	.....
33	North Carolina	1,217,456	245,195	447,750	524,511	213,801	7,924	16,324	35,609	77,581	16,000
34	North Dakota	52,410	1,610	35,640	15,160	3,745	.....	3,223	.....	222	.....
35	Ohio	4,398,788	893,471	2,013,107	1,492,210	626,994	71,288	67,095	81,064	161,457	.....
36	Oklahoma	5,225	3,490	700	1,035	2,075	1,520	.....	.....	205	.....
37	Oregon	1,970,889	389,666	601,977	979,246	334,244	12,432	33,494	23,046	108,971	.....
38	Pennsylvania	14,398,698	2,600,643	6,228,791	5,569,264	1,326,626	70,375	186,874	202,155	301,931	159,568
39	Rhode Island	31,666	1,800	15,241	14,625	7,698	2,325	433	1,220	2,650	.....
40	South Carolina	251,680	47,229	101,606	102,845	68,560	6,567	7,889	4,649	22,451	16,000
41	South Dakota	96,180	9,245	37,460	49,475	12,707	440	2,479	1,277	5,775	.....
42	Tennessee	3,430,399	609,749	1,878,069	942,581	340,635	18,604	30,212	48,018	103,861	.....
43	Texas	3,287,801	369,407	1,249,727	1,668,667	435,657	5,748	40,361	66,304	137,845	2,275
44	Utah	96,360	10,800	30,285	55,275	8,542	818	938	145	1,760	.....
45	Vermont	2,778,430	775,036	1,366,867	636,527	281,835	8,547	31,062	51,104	91,090	3,750
46	Virginia	1,148,768	223,070	477,656	448,042	228,723	10,349	15,488	35,999	66,024	11,164
47	Washington	6,624,190	1,092,989	1,765,185	3,766,016	762,680	16,630	107,737	89,326	278,887	19,000
48	West Virginia	1,839,593	453,636	943,888	442,069	163,140	5,510	21,146	19,603	50,490	2,300
49	Wisconsin	28,144,654	5,955,267	13,791,991	8,397,456	3,056,080	26,503	682,970	532,156	604,190	.....
50	Wyoming	74,125	9,375	28,375	36,375	6,702	540	1,297	115	2,785	.....

a Includes employés engaged by contractors, estimated at 42,025.

SAW MILLS, BY STATES AND TERRITORIES: 1890—Continued.

MISCELLANEOUS EXPENSES—continued.		AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.												
		Summary.								Logging.				
		Aggregate.		Males above 16 years.		Females above 15 years.		Children.		Total.		Employed in woods.		
Interest paid on cash used in the business.	All sundries not elsewhere reported.	Average number. (a)	Total wages.	Number. (a)	Wages.	Number.	Wages.	Number.	Wages.	Average number. (a)	Total wages.	Number.	Wages.	
$4,076,113	$3,787,956	460,349	$126,776,227	454,619	$125,931,686	2,462	$444,324	3,268	$400,217	174,152	$38,991,794	97,218	$22,920,082	1
31,496	65,920	10,493	2,997,960	10,319	2,971,623	8	2,490	166	23,847	4,370	1,161,239	2,182	584,125	2
.....	.....	91	22,735	91	22,735	.....	.....	.....	.....	5	502	1	155	3
25	2,200	164	104,600	164	104,600	.....	.....	.....	.....	67	46,450	42	26,650	4
56,300	39,908	10,508	3,146,959	10,454	3,141,319	12	560	42	5,080	3,796	1,078,089	2,762	785,818	5
100,504	85,099	9,192	3,863,930	9,155	3,853,554	31	3,526	6	1,850	4,604	1,869,365	3,698	1,498,777	6
8,716	6,638	1,342	502,088	1,335	500,953	7	1,135	.....	.....	438	178,675	337	135,089	7
5,245	4,886	1,156	392,275	1,155	391,675	1	600	.....	.....	402	122,487	304	89,181	8
902	630	688	128,536	618	125,986	.....	.....	70	2,550	128	24,150	88	15,908	9
45,372	58,040	5,875	1,950,562	5,783	1,937,554	29	6,050	63	6,958	1,630	552,442	826	281,468	10
36,363	32,012	9,513	2,500,739	9,380	2,487,341	32	5,550	101	7,848	3,596	928,455	2,425	622,956	11
2,809	3,600	422	139,210	418	138,510	2	500	2	200	50	13,990	38	12,490	12
30,688	177,582	5,302	1,346,662	5,223	1,337,129	8	1,610	71	7,923	988	198,878	485	98,260	13
80,199	143,142	18,371	5,574,097	17,818	5,481,110	251	51,066	302	41,921	2,549	800,345	1,519	486,807	14
600	.....	51	18,100	51	18,100	.....	.....	.....	.....	12	5,300	12	5,300	15
78,482	231,627	7,303	2,218,410	6,939	2,162,576	99	22,151	265	33,683	292	64,828	19	4,286	16
377	1,590	155	23,264	153	23,064	.....	.....	2	200	35	7,085	29	5,885	17
89,487	120,667	8,176	2,228,471	8,060	2,215,600	8	1,752	108	11,119	1,394	429,616	1,260	388,597	18
27,769	49,850	4,081	1,509,395	4,029	1,584,106	38	12,639	14	2,650	990	349,935	505	173,789	19
108,039	48,735	17,134	3,475,025	16,967	3,447,034	107	21,272	60	6,719	8,202	955,416	3,941	497,856	20
11,386	1,965	2,210	490,665	2,120	480,284	31	5,300	59	5,081	532	100,918	421	77,923	21
56,734	103,576	4,289	1,598,572	4,270	1,593,733	15	4,499	4	340	1,075	404,319	885	340,739	22
967,402	570,465	81,027	22,389,411	80,234	22,267,919	299	60,236	494	61,256	34,435	7,711,075	21,685	5,025,546	23
334,984	260,745	19,724	4,994,813	19,681	4,898,362	16	2,682	27	3,769	8,941	1,521,048	3,799	699,063	24
37,630	26,715	7,680	2,140,229	7,620	2,132,755	22	2,554	38	4,920	3,246	852,838	1,638	430,117	25
79,586	111,018	8,153	2,184,471	8,041	2,161,801	80	19,378	32	3,292	2,413	615,409	1,508	402,648	26
17,261	3,851	1,152	467,755	1,151	467,335	1	420	.....	.....	523	142,258	428	117,835	27
1,242	960	206	55,864	206	55,864	.....	.....	.....	.....	44	5,067	44	5,067	28
42,187	13,460	8,052	1,965,797	7,891	1,935,829	116	24,120	45	5,830	3,401	505,868	2,138	321,396	29
10,517	8,507	777	263,369	768	261,869	3	800	6	700	103	32,786	96	30,536	30
2,403	890	442	211,041	440	210,481	2	560	.....	.....	112	49,060	71	24,500	31
164,119	336,677	20,296	4,963,841	19,861	4,914,124	216	24,974	219	24,743	7,132	1,365,234	3,230	633,384	32
36,097	24,266	9,972	1,994,177	9,901	1,986,984	17	1,438	54	5,755	3,321	657,282	1,925	371,909	33
300	.....	138	25,810	138	25,810	.....	.....	.....	.....	.....	.....	.....	.....	34
107,465	138,625	14,413	4,112,992	13,996	4,058,240	82	12,304	335	42,448	1,357	390,041	1,070	207,957	35
160	100	35	6,570	35	6,570	.....	.....	.....	.....	.....	.....	.....	.....	36
59,323	96,978	6,457	2,492,170	6,432	2,487,652	21	3,568	4	950	2,680	831,499	1,386	451,048	37
195,137	210,586	39,978	10,328,271	39,680	10,281,982	114	20,896	184	25,393	21,315	4,862,148	7,162	2,013,783	38
925	145	245	85,138	244	84,738	1	400	.....	.....	59	23,030	39	14,580	39
6,721	4,283	4,100	713,206	4,100	713,206	.....	.....	.....	.....	1,655	286,073	1,148	194,952	40
2,311	425	548	157,115	545	156,675	3	440	.....	.....	186	58,855	168	53,415	41
75,234	64,706	9,614	2,506,615	9,470	2,480,492	22	2,756	122	14,367	1,466	312,000	752	163,703	42
109,548	73,576	11,064	4,142,814	11,024	4,136,484	9	1,788	31	4,542	4,244	1,569,898	2,033	730,298	43
4,046	835	324	88,747	323	88,732	1	15	.....	.....	96	26,991	62	16,885	44
77,793	17,589	10,434	2,356,180	10,324	2,338,995	53	9,175	57	8,010	4,053	656,333	2,212	351,592	45
35,538	54,161	9,153	1,942,052	8,728	1,893,616	337	38,026	88	10,410	3,173	580,414	1,529	274,134	46
130,594	120,506	10,207	5,102,340	10,171	5,094,543	25	5,782	11	2,015	2,570	1,042,109	1,223	578,164	47
36,643	27,448	6,163	1,623,879	6,110	1,617,131	10	2,018	43	4,730	1,855	459,625	1,213	307,654	48
768,204	441,997	63,361	15,184,987	62,887	15,102,143	332	64,035	142	18,809	30,606	5,138,574	18,877	3,265,897	49
1,190	775	118	44,318	116	43,768	1	250	1	300	5	2,240	3	1,700	50

TABLE 2.—DETAILED STATEMENT, LUMBER MILLS AND

	STATES AND TERRITORIES.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.											
		Logging—Continued.				Mill operations.							
		Employed in transportation of logs.		Employed by contractors.		Total.		Officers or firm members.				Clerks.	
								Males above 16 years.		Females above 15 years.		Males above 16 years.	
		Number.	Wages.	Estimated number.	Wages.	Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.
1	The United States	34,909	$6,424,248	42,025	$9,647,464	286,197	$87,784,433	15,508	$7,934,060	64	$34,080	3,779	$2,074,213
2	Alabama	773	198,379	1,415	378,735	6,123	1,836,721	272	168,752	1	520	106	65,855
3	Alaska	4	407			86	22,173	6	3,000			2	548
4	Arizona	25	19,800			97	58,150	3	380				
5	Arkansas	710	200,078	324	92,193	6,712	2,068,870	335	176,171			80	49,624
6	California	627	257,544	279	113,044	4,588	1,904,565	165	144,438	1	750	101	70,117
7	Colorado	91	39,481	10	4,105	904	323,413	49	30,433			6	2,145
8	Connecticut	42	16,818	56	16,488	754	269,788	101	55,282	1	600		
9	Delaware	20	4,552	20	3,630	560	104,386	32	9,135			2	792
10	Florida	283	91,254	527	179,720	4,230	1,398,120	136	103,260			74	51,881
11	Georgia	930	243,658	241	61,841	5,917	1,572,284	243	110,848			73	39,255
12	Idaho	12	1,500			372	125,220	10	6,675			2	900
13	Illinois	198	38,797	305	61,821	4,314	1,147,784	237	90,721	1	1,100	42	28,778
14	Indiana	526	151,873	504	161,665	15,822	4,773,752	1,199	504,000	6	1,175	126	74,149
15	Indian territory					39	12,800	1	1,000				
16	Iowa	12	1,680	261	58,862	7,011	2,153,582	138	123,631	3	3,950	146	115,983
17	Kansas			6	1,200	120	16,179	14	2,024			4	600
18	Kentucky	122	37,219	12	3,800	6,782	1,708,855	460	193,933	1	600	75	51,883
19	Louisiana	221	85,146	204	91,000	3,091	1,249,460	93	91,826	1	900	94	74,630
20	Maine	2,383	220,314	1,878	237,246	8,932	2,510,609	428	184,011	3	215	88	50,728
21	Maryland	72	15,738	30	7,257	1,678	389,747	129	45,909			15	9,750
22	Massachusetts	133	41,505	57	21,985	3,214	1,194,253	327	150,568	1	400	33	30,175
23	Michigan	3,775	606,544	8,975	2,079,885	40,592	14,677,436	1,730	1,233,291	14	7,480	676	494,065
24	Minnesota	2,097	260,511	3,045	560,874	10,783	3,383,765	297	249,154			205	170,781
25	Mississippi	656	172,652	952	250,069	4,434	1,287,391	230	111,545			79	46,162
26	Missouri	558	120,106	347	92,655	5,740	1,569,062	447	151,825	1	500	71	50,948
27	Montana	95	24,423			629	325,497	16	11,700			8	7,980
28	Nebraska					162	50,197	23	8,700			1	1,000
29	New Hampshire	852	122,752	411	61,720	4,651	1,459,929	289	105,786			55	34,988
30	New Jersey			7	2,250	674	230,583	43	26,170			11	7,438
31	New Mexico	33	21,760	8	2,800	330	161,981	14	10,256				
32	New York	1,337	228,943	2,565	502,907	13,164	3,598,607	1,412	485,009			129	94,038
33	North Carolina	658	143,832	738	141,541	6,651	1,336,895	380	152,463			69	27,716
34	North Dakota					138	25,810					3	3,300
35	Ohio	267	86,223	20	5,861	13,056	3,722,951	1,415	541,383	2	400	94	76,034
36	Oklahoma					35	6,570	6	1,400				
37	Oregon	556	140,141	738	240,310	3,777	1,660,671	223	141,341	3	870	75	53,855
38	Pennsylvania	7,753	1,054,647	6,400	1,793,718	18,663	5,466,123	706	394,960	7	3,210	197	153,841
39	Rhode Island			20	8,450	186	62,108	7	3,961				
40	South Carolina	440	79,823	67	11,298	2,445	427,133	171	53,247			26	11,145
41	South Dakota	7	1,840	11	3,600	362	98,260	9	5,815			2	860
42	Tennessee	348	68,553	366	79,744	8,148	2,194,615	910	321,872			79	55,290
43	Texas	896	352,332	1,315	478,263	6,820	2,572,921	175	175,237			132	93,140
44	Utah	27	8,300	7	1,806	228	61,756	15	8,375			2	1,800
45	Vermont	718	126,194	1,123	178,547	6,381	1,699,847	599	217,020			27	17,160
46	Virginia	816	157,859	828	148,421	5,980	1,361,638	307	120,076	2	800	55	34,477
47	Washington	699	216,125	648	247,820	7,637	4,060,231	284	207,464	5	1,250	192	160,801
48	West Virginia	538	125,574	104	26,397	4,308	1,164,254	524	172,959	1	70	54	31,794
49	Wisconsin	4,597	638,741	7,132	1,233,936	32,755	10,046,413	890	734,179	10	9,290	465	326,317
50	Wyoming	2	540			113	42,078	8	2,875			3	1,400

SAW MILLS, BY STATES AND TERRITORIES: 1890—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.														ANIMALS IN USE.		
Mill operations—Continued.																
Clerks—Continued.		Operatives, skilled and unskilled.						Pieceworkers.								
Females above 15 years.		Males above 16 years.		Females above 15 years.		Children.		Males above 16 years.		Females above 15 years.		Children.				
Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Average number.	Cost of keep.	
117	$46,845	252,129	$73,723,635	1,388	$249,524	2,616	$333,604	9,051	$2,607,984	893	$113,875	652	$66,613	80,089	$6,112,170	1
2	1,200	5,469	1,557,227	4	520	164	23,797	102	18,550	1	250	2	50	4,069	264,574	2
.....	.....	78	18,625	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
.....	.....	94	57,770	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	160	18,920	4
.....	.....	5,983	1,767,667	2	400	37	4,480	260	69,768	10	160	5	600	5,152	298,958	5
1	600	4,208	1,741,680	29	7,176	6	1,850	77	27,954	.....	.....	.....	.....	3,267	261,609	6
.....	.....	816	272,790	7	1,135	.....	.....	26	16,910	.....	.....	.....	.....	559	64,421	7
.....	.....	635	209,738	.....	.....	.....	.....	17	4,168	.....	.....	.....	.....	328	32,501	8
.....	.....	336	79,609	.....	.....	.....	.....	120	12,300	.....	.....	70	2,550	132	7,708	9
5	1,650	3,591	1,213,981	24	4,400	60	6,758	346	15,900	.....	.....	3	200	1,485	122,685	10
1	1,300	5,374	1,388,025	29	4,000	98	7,648	94	20,758	2	250	3	200	2,088	256,994	11
.....	.....	345	114,895	2	500	2	200	11	2,050	.....	.....	.....	.....	66	5,935	12
.....	.....	3,893	1,003,104	7	510	66	7,173	63	15,648	.....	.....	5	750	505	29,133	13
6	1,694	15,227	3,816,730	146	34,445	258	36,831	717	285,886	93	13,752	44	5,000	1,620	118,856	14
.....	.....	38	11,800	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14	1,400	15
7	2,450	6,183	1,819,797	69	12,676	224	28,241	180	38,337	20	3,075	41	5,442	24	1,010	16
.....	.....	100	13,355	.....	.....	2	200	.....	.....	.....	.....	.....	.....	10	452	17
.....	.....	5,854	1,444,786	7	1,152	105	10,354	277	95,382	.....	.....	3	765	670	33,007	18
.....	.....	2,773	1,028,709	2	832	14	2,650	79	39,006	35	10,907	.....	.....	636	39,949	19
7	3,734	7,928	2,156,377	67	13,119	51	6,277	321	100,502	30	4,204	9	442	2,013	111,773	20
.....	.....	1,369	308,166	21	4,300	41	4,372	75	15,541	10	1,000	18	709	464	27,285	21
6	1,899	2,660	938,444	5	1,500	2	100	175	70,227	3	700	2	240	697	65,947	22
23	10,667	41,851	12,383,137	213	35,737	350	43,512	1,542	445,451	49	6,952	144	17,744	9,304	1,010,715	23
3	1,470	9,945	2,875,447	11	1,112	23	3,269	293	81,932	2	100	4	500	2,853	206,501	24
1	220	4,022	1,110,260	6	834	33	4,620	43	11,950	15	1,500	5	300	3,056	179,391	25
4	2,180	4,898	1,284,748	44	9,498	25	2,842	212	58,871	31	7,200	7	450	2,160	98,399	26
.....	.....	579	295,397	1	420	.....	.....	25	10,000	.....	.....	.....	.....	205	25,357	27
.....	.....	138	40,497	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38	1,020	28
4	1,450	3,965	1,209,228	73	17,875	20	3,564	181	79,959	39	4,804	16	2,275	2,115	140,081	29
.....	.....	569	184,273	2	600	2	344	42	11,202	1	200	4	356	76	8,015	30
.....	.....	312	150,765	1	160	.....	.....	2	400	1	400	.....	.....	411	14,080	31
6	2,015	10,646	2,830,804	75	10,611	108	14,178	542	139,039	135	12,348	111	10,565	2,376	185,073	32
1	75	6,011	1,127,382	11	988	49	5,655	120	22,141	5	375	5	100	1,759	122,676	33
.....	.....	135	22,510	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
7	2,118	10,556	2,883,524	38	4,121	260	35,967	574	167,258	35	5,665	75	6,481	1,115	84,762	35
.....	.....	20	5,170	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36
.....	.....	3,429	1,454,847	18	2,698	2	200	25	6,110	.....	.....	2	750	1,839	125,309	37
9	3,350	16,918	4,731,222	68	9,819	130	18,847	544	139,811	30	4,517	45	6,546	4,056	494,241	38
1	400	171	56,343	.....	.....	.....	.....	7	1,404	.....	.....	.....	.....	36	3,750	39
.....	.....	2,195	358,508	.....	.....	.....	.....	53	4,233	.....	.....	.....	.....	1,258	93,174	40
.....	.....	338	89,345	3	440	.....	.....	10	1,800	.....	.....	.....	.....	233	11,206	41
1	600	6,764	1,732,339	18	1,816	110	12,629	251	67,991	3	340	12	1,738	1,582	92,013	42
1	250	6,315	2,209,353	8	1,538	31	4,542	158	28,861	.....	.....	.....	.....	3,891	256,802	43
.....	.....	209	51,506	1	15	.....	.....	1	60	.....	.....	.....	.....	131	7,184	44
2	900	5,493	1,403,577	48	7,815	51	7,010	152	44,905	3	460	6	1,000	2,552	166,931	45
.....	.....	4,933	1,122,530	35	5,726	80	9,750	260	36,119	300	31,500	8	660	2,028	149,340	46
1	500	7,032	3,533,700	16	3,617	10	1,940	93	60,379	3	415	1	75	1,235	145,536	47
4	1,440	3,593	932,016	5	508	43	4,730	84	20,737	.....	.....	.....	.....	981	78,027	48
14	5,283	30,034	8,586,254	271	46,661	140	18,774	892	316,819	37	2,801	2	35	9,936	744,820	49
.....	.....	95	35,678	1	250	1	300	5	1,575	.....	.....	.....	.....	4	150	50

TABLE 2.—DETAILED STATEMENT, LUMBER MILLS AND

	STATES AND TERRITORIES.	MATERIALS USED.									
		Aggregate cost.	In operations other than planing mill.								
			Obtained in woods.				Purchased at mill.				
			Total cost.	Standing timber.		Logging supplies. (Cost.)	Total cost.	Logs.		Bolts.	
				Quantity. (Number of 1,000 feet, scaled measure.)	Cost. (Stumpage value.)			Quantity. (Number of 1,000 feet, board measure.)	Cost at mill.	Number of cords.	Cost at mill.
1	The United States	$186,451,654	$36,519,456	13,669,085	$34,417,861	$2,101,595	$109,331,382	13,087,846	$92,677,446	1,049,566	$4,228,721
2	Alabama	3,055,549	417,474	401,811	362,106	55,368	1,638,426	246,185	1,451,230	4,260	18,704
3	Alaska	29,636	5	.....	.....	5	17,904	3,146	16,185	.....	.....
4	Arizona	61,395	14,500	9,500	9,500	5,000	16,695	1,300	12,675	.....	.....
5	Arkansas	3,406,331	427,198	443,309	360,629	66,569	1,541,712	201,091	1,125,507	34,889	200,992
6	California	2,225,071	764,996	378,616	577,133	187,863	1,010,686	122,644	729,786	17,839	75,265
7	Colorado	366,597	49,607	38,322	43,832	5,775	231,448	40,499	211,511	.....	.....
8	Connecticut	586,954	85,581	20,897	85,031	550	473,569	34,319	441,463	664	4,980
9	Delaware	161,238	25,120	12,820	23,720	1,400	107,598	12,838	96,325	.....	.....
10	Florida	2,058,195	186,414	214,483	169,494	16,920	1,484,045	249,275	1,396,199	2,000	5,750
11	Georgia	2,077,578	376,741	385,582	311,987	64,754	1,304,581	232,501	1,149,225	1,430	5,720
12	Idaho	167,172	1,500	2,900	1,500	.....	134,202	14,950	119,835	1,040	6,100
13	Illinois	2,665,673	243,271	76,151	240,844	2,427	1,699,202	161,124	1,557,663	12,538	35,804
14	Indiana	9,649,175	1,185,815	192,904	1,168,884	16,931	7,799,928	639,242	6,184,581	308,488	1,296,709
15	Indian territory	17,200	5,000	500	5,000	.....	12,200	590	11,900	.....	.....
16	Iowa	7,879,993	95,428	23,162	94,828	600	5,421,985	482,606	5,173,766	4,939	16,390
17	Kansas	35,761	5,200	850	5,200	.....	30,561	3,327	27,901	150	1,000
18	Kentucky	3,908,199	140,800	84,799	134,709	6,091	3,519,003	397,793	2,962,264	43,109	232,152
19	Louisiana	2,683,260	107,445	89,840	81,345	26,100	2,117,605	277,619	2,036,911	.....	.....
20	Maine	4,883,591	633,526	274,475	588,098	45,428	3,633,867	425,007	3,377,469	35,529	115,362
21	Maryland	712,054	106,452	39,165	104,969	1,483	451,922	54,483	400,085	2,173	30,950
22	Massachusetts	2,212,606	420,195	110,065	273,770	146,425	1,327,084	112,733	989,380	30,205	123,685
23	Michigan	36,882,853	13,603,705	3,198,213	13,050,868	552,837	19,765,947	2,264,709	15,315,360	.....	.....
24	Minnesota	11,943,262	1,639,439	559,830	1,576,918	62,521	5,684,157	655,289	5,069,001	.....	.....
25	Mississippi	1,820,301	317,084	323,305	304,596	12,488	787,079	143,275	658,435	7,750	27,840
26	Missouri	3,498,460	269,550	207,564	259,925	9,625	1,866,184	193,614	1,583,976	38,458	145,104
27	Montana	378,960	54,325	57,950	29,325	25,000	200,675	31,555	183,625	.....	.....
28	Nebraska	56,865	2,270	1,470	2,270	.....	54,595	8,474	49,651	.....	.....
29	New Hampshire	1,825,889	367,892	176,737	345,977	21,915	1,150,939	130,242	868,957	27,934	149,200
30	New Jersey	651,736	25,762	6,217	25,162	600	468,856	36,428	430,001	756	4,511
31	New Mexico	109,181	24,500	15,600	24,300	200	80,206	10,760	77,929	.....	.....
32	New York	7,166,499	834,105	432,615	818,282	15,823	4,928,711	548,961	4,367,089	69,256	244,050
33	North Carolina	2,227,225	303,490	270,827	283,495	19,995	1,536,834	288,505	1,329,928	15,390	68,822
34	North Dakota	36,045	.....	.....	.....	.....	36,045	6,819	35,780	.....	.....
35	Ohio	7,117,995	327,966	105,048	323,461	4,505	5,844,538	584,255	4,922,080	189,913	606,784
36	Oklahoma	13,900	.....	.....	.....	.....	13,900	1,980	13,900	.....	.....
37	Oregon	2,022,394	315,204	290,137	289,295	25,909	1,160,602	198,668	1,042,380	3,970	13,572
38	Pennsylvania	10,126,079	3,047,523	1,384,963	2,968,089	79,434	5,909,823	868,737	5,402,139	38,926	126,983
39	Rhode Island	85,986	10,110	3,840	10,110	.....	66,141	5,311	63,185	310	1,700
40	South Carolina	595,535	124,612	121,095	111,352	13,260	446,668	96,875	398,594	700	6,650
41	South Dakota	110,696	21,398	11,050	20,798	600	61,923	11,800	56,348	.....	.....
42	Tennessee	4,615,269	220,969	141,206	211,428	9,541	3,324,634	395,283	2,854,674	67,852	317,277
43	Texas	4,495,381	494,208	585,625	437,059	57,149	1,619,281	266,345	1,430,998	5,685	18,240
44	Utah	92,757	1,525	4,270	1,525	.....	73,977	10,118	70,378	.....	.....
45	Vermont	3,006,344	366,732	191,390	354,032	12,700	1,584,456	226,829	1,424,309	10,208	44,038
46	Virginia	2,176,204	251,879	206,774	236,730	15,149	1,529,267	232,201	1,256,923	24,650	121,553
47	Washington	6,742,798	345,980	330,710	266,560	79,429	5,223,477	825,957	4,732,124	35,700	110,794
48	West Virginia	2,430,859	315,883	138,685	296,875	19,008	1,625,446	189,550	1,490,437	12,855	52,040
49	Wisconsin	27,329,117	7,940,768	2,103,512	7,526,550	414,218	10,269,122	1,136,029	8,038,774	.....	.....
50	Wyoming	49,776	300	300	300	.....	43,676	6,005	38,070	.....	.....

a Products of forest operations that did not become material for the mill.

SAW MILLS, BY STATES AND TERRITORIES: 1890—Continued.

MATERIALS USED—continued.						PRODUCTS.				
In operations other than planing mill—Continued.		Planing mills.					Forest products. (a)			
Purchased at mill—Cont'd.			Rough lumber.					Saw logs.		
Mill supplies. (Cost.)	All other materials. (Cost.)	Total cost.	Quantity. (Number of 1,000 feet, board measure.)	Cost at mill.	Mill supplies and all other materials. (Cost.)	Aggregate value.	Total value.	Quantity. (Number of 1,000 feet, board measure.)	Value.	
$4,815,331	$7,609,884	$40,600,816	3,382,696	$39,902,746	$698,070	$403,667,575	$14,364,158	1,445,099	$10,528,546	1
100,007	68,485	999,649	103,918	984,334	15,315	8,135,996	114,402	4,907	37,310	2
1,719	.....	11,727	623	11,416	311	58,440	50	8	50	3
4,020	.....	30,200	1,500	30,000	200	248,790	93,000	5,500	48,000	4
133,613	81,600	1,437,421	166,826	1,414,236	23,185	8,800,017	243,248	15,700	60,955	5
169,410	36,225	449,389	32,822	432,376	17,013	8,453,964	545,232	65,360	361,301	6
17,963	1,974	85,542	5,493	83,492	2,050	1,172,190	23,860	1,340	8,320	7
10,962	16,164	27,804	1,355	27,400	404	1,236,736	123,127	22	340	8
4,200	7,073	28,520	3,250	28,100	420	397,057	17,720	1,550	6,900	9
61,381	20,715	387,736	38,647	378,568	9,168	5,424,307	130,113	24,273	121,458	10
123,561	26,075	396,256	48,461	389,892	6,364	6,306,095	89,510	13,414	61,877	11
6,842	1,425	31,470	2,340	31,170	300	429,990	6,050	800	5,300	12
50,661	55,074	723,200	41,795	715,650	7,570	5,090,940	25,965	542	5,684	13
186,320	132,318	663,432	35,385	632,729	30,703	19,964,293	187,517	7,360	87,030	14
300	.....	.....	.....	.....	.....	41,950	.....	.....	.....	15
120,388	111,441	2,362,580	169,253	2,343,484	19,096	11,829,065	159,628	18,112	150,000	16
1,364	296	.....	.....	.....	.....	85,521	11,325	150	5,700	17
103,919	220,728	248,396	23,794	239,416	8,980	7,869,082	325,050	30,703	314,630	18
63,992	16,702	458,210	35,866	441,560	16,650	5,599,744	103,351	12,000	60,000	19
104,470	36,566	616,198	54,773	607,178	9,020	10,907,438	146,562	17,650	119,855	20
16,277	4,610	153,680	11,849	152,060	1,620	1,595,282	42,844	985	8,780	21
56,688	157,331	465,387	40,429	453,016	12,371	5,109,998	133,015	4,770	45,574	22
933,907	3,516,680	3,513,201	257,750	3,463,385	49,816	73,484,306	5,364,362	613,608	4,761,836	23
200,092	415,064	4,619,666	374,389	4,582,062	37,604	21,013,010	1,347,807	147,768	1,213,689	24
75,944	24,860	716,138	69,874	692,728	23,410	5,670,774	34,604	4,069	16,498	25
97,593	39,511	1,362,726	115,144	1,339,491	23,235	7,487,844	56,098	3,145	16,423	26
16,940	110	123,960	8,193	123,345	615	1,178,380	4,300	1,050	4,300	27
4,534	410	.....	.....	.....	.....	154,945	5,497	500	3,903	28
59,882	72,900	307,058	28,183	299,800	7,258	5,017,062	33,650	1,317	9,580	29
10,736	23,608	157,118	7,341	156,290	828	1,215,524	42,725	1,000	12,000	30
2,217	60	4,475	525	4,250	225	389,761	11,200	.....	.....	31
155,574	161,908	1,403,683	116,150	1,370,688	32,995	16,457,811	266,049	2,696	17,246	32
86,944	51,140	386,901	42,385	383,010	3,891	5,767,687	158,194	30,437	140,549	33
265	.....	.....	.....	.....	.....	76,173	.....	.....	.....	34
157,060	158,014	945,491	53,306	924,594	20,897	15,161,730	178,051	3,784	26,771	35
.....	.....	.....	.....	.....	.....	27,200	.....	.....	.....	36
82,814	21,836	546,588	52,760	532,736	13,852	5,994,915	288,570	24,261	105,263	37
315,455	65,246	1,168,733	100,616	1,135,245	33,488	27,772,834	1,131,151	46,015	259,255	38
1,131	125	9,735	620	9,400	335	244,490	32,440	.....	.....	39
26,612	14,812	24,255	2,330	23,390	865	1,982,583	43,459	3,713	12,919	40
5,255	320	27,375	2,508	26,825	550	375,769	25,000	1,400	9,600	41
119,402	33,281	1,069,666	75,733	1,048,123	21,543	8,941,995	61,886	4,128	28,617	42
128,782	41,261	2,381,892	268,085	2,333,382	48,510	11,328,257	103,899	11,604	52,200	43
3,364	235	17,255	900	15,600	1,655	234,820	2,330	.....	.....	44
83,016	33,093	1,055,156	101,882	1,033,227	21,929	6,843,817	33,020	1,866	16,695	45
68,365	82,426	395,058	33,739	388,784	6,274	5,541,825	40,498	4,585	19,502	46
250,421	130,138	1,173,332	99,265	1,137,287	36,045	15,067,627	151,573	19,745	109,770	47
47,879	35,090	489,530	38,561	482,505	7,025	5,230,340	64,869	3,585	27,024	48
539,359	1,600,989	9,119,227	713,694	8,995,042	124,185	52,115,739	2,361,357	289,617	2,155,845	49
3,731	1,875	5,800	375	5,500	300	124,462	.....	.....	.....	50

TABLE 2.—DETAILED STATEMENT, LUMBER MILLS AND

	STATES AND TERRITORIES.	PRODUCTS—continued.								
		Forest products—Continued.								
		Telegraph poles.		Fence posts.		Railway ties.		Piling.		Hewed timber.
		Number.	Value.	Number.	Value.	Number.	Value.	Number of pieces.	Value.	Quantity. (Number of 1,000 feet, board measure.)
1	The United States	116,844	$154,333	4,723,056	$399,368	5,496,174	$1,555,425	158,150	$292,646	7,793
2	Alabama	500	250	32,100	2,186	372,344	64,281	2,725	8,475	36
3	Alaska									
4	Arizona					70,000	35,000	9,000	10,000	
5	Arkansas	6,000	7,500	433,170	35,722	389,725	114,071	19,500	25,000	
6	California	4,034	7,014	289,000	19,330	440,000	86,890	6,180	24,750	40
7	Colorado			10,000	800	400	240			
8	Connecticut	5,459	17,275	34,000	6,055	157,496	64,999	1,530	5,608	71
9	Delaware	200	300	5,500	950	5,800	2,820	4,400	6,000	
10	Florida			50	5	21,000	6,450	1,700	2,200	
11	Georgia	1,800	3,300	39,982	3,158	129,965	20,925			20
12	Idaho			6,000	400	800	240			
13	Illinois			27,300	2,305	39,000	13,225	1,668	4,551	
14	Indiana			119,800	12,709	108,580	41,945	7,652	26,100	271
15	Indian territory									
16	Iowa			1,150	625	18,786	7,627	457	1,026	
17	Kansas			3,000	625					
18	Kentucky			45,350	3,027	4,500	2,073			250
19	Louisiana			33,000	3,000	34,100	10,076	80	275	
20	Maine	1,300	2,375	8,200	830	19,605	2,556	2,672	6,736	350
21	Maryland	100	200	31,800	4,185	39,500	15,520	1,990	3,991	9
22	Massachusetts	1,250	2,375	92,900	6,718	146,208	55,277	300	1,100	19
23	Michigan	55,624	54,093	1,505,543	127,114	713,733	177,571	12,252	27,427	27
24	Minnesota	10,631	11,001	760,417	69,327	159,198	46,710	6,962	6,622	
25	Mississippi			33,250	1,821	35,000	7,065			1,320
26	Missouri			61,800	5,160	74,735	27,087	1,264	2,190	30
27	Montana									
28	Nebraska					6,992	1,197			
29	New Hampshire	516	612	11,800	1,142	37,275	11,566	900	3,700	165
30	New Jersey	2,050	5,300	30,707	3,475	37,450	14,050	1,100	3,900	
31	New Mexico					28,000	11,200			
32	New York	3,920	6,515	112,860	11,585	188,550	63,549	11,060	15,844	64
33	North Carolina			19,750	1,395	76,100	7,850	430	490	205
34	North Dakota									
35	Ohio	3,100	3,020	163,179	15,339	229,294	103,704	2,644	7,750	763
36	Oklahoma									
37	Oregon	1,000	1,250	40,650	3,435	647,800	172,614	1,025	1,275	7
38	Pennsylvania	7,124	18,013	99,025	11,094	399,948	177,229	5,915	15,355	3,765
39	Rhode Island	500	2,000	4,000	620	55,400	22,420	200	1,000	
40	South Carolina			3,900	850	61,000	12,620	450	780	110
41	South Dakota									
42	Tennessee	350	1,050	67,035	6,523	44,626	14,221	10,720	10,500	79
43	Texas			16,500	2,250	53,200	16,600	15,330	30,185	124
44	Utah			500	50	1,000	180			
45	Vermont	440	420	28,300	2,606	18,475	5,089	100	160	
46	Virginia	297	444	26,785	1,290	43,854	10,566	5,206	5,838	10
47	Washington	4,360	4,520	8,900	1,122	120,800	22,471	8,800	13,690	
48	West Virginia	500	1,200	5,800	1,086	112,706	33,379			18
49	Wisconsin	5,189	3,706	509,453	29,454	353,139	52,272	13,938	20,128	40
50	Wyoming									

SAW MILLS, BY STATES AND TERRITORIES: 1890—Continued.

PRODUCTS—continued.											
Forest products—Continued.		Mill products other than planing mill.									
Hewed timber—Cont'd.			Reported in feet, board measure.								
			Total.		Agricultural implement stock.		Bobbin and spool stock.		Carriage and wagon stock.		
Value.	All other forest products. (Value.)	Total value.	Quantity.	Value.	Quantity. (Number of 1,000 feet.)	Value.	Quantity. (Number of 1,000 feet.)	Value.	Quantity. (Number of 1,000 feet.)	Value.	
$80,975	$1,352,865	$335,837,620	23,845,046	$272,020,740	30,321	$582,338	49,508	$687,755	65,858	$1,306,168	1
550	1,350	6,707,113	589,480	5,469,020	716	6,330			980	28,008	2
		39,446	2,816	39,117							3
		110,790	5,320	106,290							4
		6,749,048	537,884	5,078,967	7,859	153,633			1,836	33,253	5
600	45,347	7,271,725	517,781	6,536,820			50	750			6
	14,500	989,330	79,951	939,860							7
1,376	27,474	1,068,109	48,957	915,677	84	2,585	3	100	442	11,670	8
	750	342,057	23,466	268,312	50	1,500	250	5,000	6	120	9
		4,760,765	411,869	4,207,074	80	1,600			35	1,100	10
250		5,617,906	575,152	5,088,282	108	1,408	20	200	759	12,645	11
	110	351,140	27,800	313,550							12
	200	4,233,670	221,810	3,305,035	347	7,140	40	540	1,891	42,188	13
6,753	12,980	18,699,414	755,407	12,685,400	6,037	154,709	8	85	18,559	449,788	14
		41,950	522	16,660							15
	350	8,971,990	571,166	7,834,399	68	1,310			781	20,015	16
	5,000	74,196	4,037	65,506							17
5,250	70	7,153,607	423,185	5,523,116	614	10,170	90	800	1,003	14,937	18
	30,000	4,807,556	303,726	3,846,304					5	75	19
2,500	11,710	9,920,132	597,481	7,007,928	118	2,517	25,316	394,394	332	6,377	20
108	10,000	1,341,813	82,119	994,327	39	1,045			363	9,070	21
486	21,485	4,240,420	211,588	2,085,120	122	3,590	147	2,983	438	10,870	22
600	215,721	63,781,299	4,300,172	50,396,911	2,990	40,685	4,145	47,698	12,635	148,711	23
	458	14,279,030	1,084,377	12,432,606	81	1,093	500	9,000	677	12,540	24
9,200	20	4,649,210	454,417	4,396,717	552	5,983			233	4,106	25
350	4,888	5,800,196	402,052	4,715,673	2,963	59,114			1,224	27,472	26
		986,930	89,511	958,570							27
	400	149,448	8,561	96,894							28
2,375	4,675	4,558,274	277,003	3,012,699	95	1,631	7,236	86,708	519	10,121	29
	4,000	919,491	34,052	649,589					1,061	9,210	30
		365,561	26,112	293,257							31
1,055	150,255	14,042,084	925,417	10,914,982	403	5,472	3,478	37,750	2,464	57,455	32
2,110	5,800	5,070,200	514,692	4,409,520	37	791	3,945	49,850	775	15,649	33
		76,173	6,821	70,473	1	18					34
8,702	12,765	13,402,136	565,315	8,371,027	3,209	61,660	120	1,600	5,923	134,116	35
		27,260	2,030	26,660							36
83	4,650	4,903,538	446,483	4,640,558	12	445			10	403	37
35,089	614,516	24,898,088	2,133,316	21,855,263	463	7,396	975	14,000	1,117	35,169	38
	6,400	155,550	7,633	129,055	2	40			10	200	39
900	15,390	1,895,049	198,764	1,692,389	156	1,959			203	3,444	40
	15,400	290,959	21,412	258,909							41
800	175	7,315,709	460,261	5,838,166	1,138	16,771			1,511	26,448	42
948	1,716	8,258,635	842,648	7,610,960	51	705			147	2,950	43
	2,100	197,640	14,320	187,960							44
	8,050	5,306,100	384,476	4,200,885	183	6,240	3,078	34,864	805	21,343	45
50	2,808	4,913,813	415,512	3,996,073	76	1,665	12	120	4,795	101,883	46
		13,034,654	1,063,584	11,288,710					1	25	47
180	2,000	4,546,311	301,958	3,968,819	811	12,197	95	1,313	147	2,371	48
600	99,352	38,316,643	2,866,153	32,280,881	856	10,936			4,171	52,436	49
		115,462	6,417	98,642							50

TABLE 2.—DETAILED STATEMENT, LUMBER MILLS AND

	STATES AND TERRITORIES.	PRODUCTS—continued.							
		Mill products other than planing mill—Continued.							
		Reported in feet, board measure—Continued.						Shingles.	
		Furniture stock.		Pickets.		Sawed lumber.			
		Quantity. (Number of 1,000 feet.)	Value.	Quantity. (Number of 1,000 feet.)	Value.	Quantity. (Number of 1,000 feet.)	Value.	Number of 1,000.	Value.
1	The United States	94,344	$1,432,860	107,362	$754,938	23,497,653	$267,256,681	9,275,809	$17,030,481
2	Alabama	261	3,317	1,380	16,078	586,143	5,416,187	292,583	574,965
3	Alaska			16	230	2,800	38,887	70	260
4	Arizona			20	540	5,300	105,750	1,500	4,500
5	Arkansas	223	5,110	1,875	13,548	526,091	4,873,423	329,823	707,568
6	California	50	1,500	1,858	18,628	515,823	6,515,942	305,964	423,987
7	Colorado			45	1,100	79,906	938,760	10,625	28,000
8	Connecticut	140	2,200	11	175	48,277	898,947	3,523	10,034
9	Delaware			8	125	23,152	261,567	100	250
10	Florida	10	300	308	3,415	411,436	4,200,659	114,107	279,190
11	Georgia	458	5,515	837	8,895	572,970	5,059,619	102,877	188,178
12	Idaho					27,800	313,550	7,825	22,190
13	Illinois	86	1,715	508	7,216	218,938	3,246,236	18,339	45,309
14	Indiana	14,415	238,374	9,273	63,357	707,115	11,779,147	78,789	138,000
15	Indian territory					522	16,600		
16	Iowa	359	6,225	1,142	42,303	568,816	7,764,546	209,649	408,667
17	Kansas					4,037	65,506		
18	Kentucky	215	6,593	443	4,552	420,820	5,486,064	36,748	62,070
19	Louisiana			130	2,000	303,591	3,844,229	411,725	878,418
20	Maine	1,265	22,362	6,207	65,737	504,243	6,516,541	483,153	932,679
21	Maryland	62	1,690	577	6,470	81,078	976,052	12,277	29,802
22	Massachusetts	2,139	33,599	87	1,875	208,655	2,932,212	24,523	57,186
23	Michigan	20,225	276,349	14,460	72,086	4,245,717	49,811,382	2,848,820	5,173,445
24	Minnesota	973	12,651	2,743	10,228	1,079,403	12,387,184	461,472	787,644
25	Mississippi	513	5,196	322	3,410	452,797	4,378,022	11,270	24,310
26	Missouri	1,422	27,039	688	7,452	395,755	4,594,596	24,089	47,298
27	Montana					89,511	958,570	1,295	4,300
28	Nebraska			5	50	8,556	96,844	2,805	5,070
29	New Hampshire	1,885	40,824	438	4,380	266,890	2,869,035	79,193	131,614
30	New Jersey	100	2,000	606	5,814	32,285	632,565	17,608	54,942
31	New Mexico					26,112	293,257	3,140	7,004
32	New York	6,270	83,745	2,812	11,644	909,990	10,718,916	491,641	606,006
33	North Carolina	227	3,255	272	4,653	509,436	4,335,331	100,442	277,632
34	North Dakota			1	15	6,819	76,440	2,000	2,000
35	Ohio	10,351	175,891	4,636	35,822	541,076	7,961,938	49,302	117,177
36	Oklahoma					2,030	20,660		
37	Oregon	1,138	25,460	758	8,225	444,565	4,606,025	51,530	100,445
38	Pennsylvania	2,219	25,760	15,275	126,677	2,113,267	21,646,261	422,701	784,856
39	Rhode Island			1	20	7,620	128,795	3,790	9,250
40	South Carolina	188	2,974	277	2,975	197,940	1,681,037	23,618	80,394
41	South Dakota					21,412	258,969	7,845	18,640
42	Tennessee	6,644	108,418	871	7,767	450,097	5,678,762	19,537	44,017
43	Texas	304	3,550	2,422	14,606	839,724	7,589,149	214,082	504,031
44	Utah			25	475	14,295	187,485	1,115	3,330
45	Vermont	10,075	165,660	180	5,100	370,155	3,967,678	69,035	136,035
46	Virginia	122	2,840	703	4,656	409,804	3,884,909	11,566	51,162
47	Washington	125	1,850	1,898	18,006	1,061,560	11,268,829	545,297	1,064,138
48	West Virginia	840	10,922	356	3,793	299,709	3,938,223	1,009	3,176
49	Wisconsin	11,040	129,976	32,886	150,818	2,817,200	31,936,715	1,366,022	2,186,643
50	Wyoming			2	22	6,415	98,620	1,385	5,660

a Items included in this column are shown in statement on page 600.

SAW MILLS, BY STATES AND TERRITORIES: 1890—Continued.

PRODUCTS—continued.									
Mill products other than planing mill—Continued.									
Staves.		Heading.		Lath.		Tolls received for custom sawing.	All other products. (Value.) (a)	Planing mill products. (Value.)	
Pieces.	Value.	Sets.	Value.	Number of 1,000.	Value.				
1,178,551,745	$7,762,344	182,742,837	$4,933,799	2,263,308	$3,519,924	$9,589,580	$20,980,752	$53,465,797	1
2,100,000	26,700	50,000	2,000	35,105	40,370	107,788	485,370	1,314,481	2
.....	.....	.....	.....	.....	.....	69	.....	18,944	3
.....	.....	.....	.....	.....	.....	.....	.....	45,000	4
49,101,550	631,638	3,917,848	88,074	20,364	24,437	64,710	153,654	1,807,721	5
.....	.....	175,000	2,975	7,350	15,300	32,320	260,323	637,007	6
.....	.....	.....	.....	4,500	13,000	8,470	.....	159,000	7
40,000	150	26,800	941	1,500	3,000	32,665	105,642	45,500	8
2,500,000	7,000	100,000	1,000	650	1,625	8,791	55,079	37,280	9
690,073	4,260	7,071	137	35,000	45,500	29,105	195,490	533,429	10
16,767,900	68,022	278,500	4,861	23,250	24,645	142,478	101,440	598,679	11
.....	.....	.....	.....	1,000	3,000	9,400	3,000	72,800	12
34,176,400	219,278	2,533,000	68,165	30,000	66,000	25,978	503,905	831,305	13
101,468,600	1,035,319	51,062,560	2,138,893	23,300	48,930	413,855	2,238,957	1,077,362	14
.....	.....	.....	.....	.....	.....	25,290	.....	.....	15
1,112,000	6,470	616,000	18,480	110,500	209,950	111,528	382,496	2,697,447	16
.....	.....	.....	.....	.....	.....	1,340	7,350	.....	17
28,308,032	201,037	8,348,234	100,337	35,808	57,293	149,835	1,059,919	399,425	18
183,500	1,006	221,140	9,951	7,500	9,000	6,932	55,945	688,837	19
82,880,100	391,039	8,553,516	211,828	190,355	304,568	183,009	889,081	840,744	20
930,000	6,362	.....	.....	3,500	7,700	50,755	252,867	210,625	21
8,039,200	39,899	1,431,982	18,838	20,365	36,657	118,852	983,859	736,563	22
250,401,389	1,420,990	32,057,025	662,910	478,935	751,928	3,534,557	1,840,558	4,338,645	23
6,300,000	10,600	450,000	16,000	176,300	248,583	676,531	106,976	5,386,173	24
8,800,000	46,900	130,000	4,200	10,355	18,639	16,594	141,850	986,960	25
23,761,000	157,390	2,245,000	28,050	26,785	53,600	107,310	690,875	1,631,550	26
.....	.....	.....	.....	3,360	11,750	12,310	.....	187,150	27
.....	.....	.....	.....	.....	.....	12,484	35,000	.....	28
50,501,800	136,207	2,794,000	80,197	55,834	83,750	90,129	1,023,678	425,138	29
.....	.....	25,000	750	9,150	21,960	16,206	170,044	253,308	30
.....	.....	.....	.....	2,310	6,930	58,370	.....	13,000	31
26,592,004	153,602	18,581,103	283,946	85,250	115,087	447,209	1,521,252	2,149,678	32
159,500	804	11,000	238	19,330	36,565	88,212	257,220	539,293	33
.....	.....	.....	.....	1,600	3,200	500	.....	.....	34
267,783,850	1,307,084	20,955,967	541,989	38,265	99,489	244,582	2,720,788	1,581,543	35
.....	.....	.....	.....	.....	.....	600	.....	.....	36
5,052,000	20,700	784,000	16,520	14,110	29,130	48,410	38,775	802,807	37
51,463,800	329,549	5,883,915	84,194	195,273	234,328	920,031	689,867	1,743,595	38
384,000	1,200	.....	.....	.....	.....	7,345	8,760	56,500	39
4,520,000	18,875	239,800	5,611	10,150	26,810	5,418	65,552	44,075	40
.....	.....	.....	.....	1,080	2,562	10,788	.....	59,750	41
60,490,000	589,200	8,675,783	151,509	35,350	56,560	109,265	526,992	1,564,400	42
.....	.....	.....	.....	39,565	41,580	77,034	25,030	2,965,723	43
.....	.....	.....	.....	.....	.....	6,350	.....	34,850	44
7,286,600	59,850	385,900	4,942	23,475	32,865	136,052	825,471	1,414,697	45
15,280,500	76,874	1,571,000	36,670	19,204	30,432	141,287	581,315	587,514	46
168,380	1,362	71,160	3,427	40,600	112,020	289,318	275,679	1,881,400	47
27,997,536	385,751	418,778	12,926	23,480	39,916	50,731	84,992	628,160	48
63,362,022	407,226	10,141,755	333,240	385,500	551,265	947,627	1,609,761	11,437,739	49
.....	.....	.....	.....	.....	.....	11,160	.....	9,000	50

TABLE 3.—CLASSIFICATION OF EMPLOYÉS, AVERAGE TERM OF EMPLOYMENT, AND AVERAGE

[Piecework and the 42,025 employés shown in Table 2, reported as the

	STATES AND TERRITORIES.	Number of establishments reporting.	OFFICERS OR FIRM MEMBERS ACTIVELY ENGAGED IN THE INDUSTRY OR IN SUPERVISION.						CLERKS.						OPERATIVES, SKILLED AND UNSKILLED.		
			Males above 16 years.			Females above 15 years.			Males above 16 years.			Females above 15 years.			Males above 16 years engaged in— Woods.		
			Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.
1	Alabama	437	272	8.00	$77.52	1	10.00	$52.00	106	10.34	$60.69	2	11.50	$52.17	2,182	9.21	$29.06
2	Alaska	10	6	5.17	96.77				2	4.50	60.87				1	4.00	38.75
3	Arizona	4	3	2.00	63.33										42	10.00	63.45
4	Arkansas	523	335	7.30	72.05				80	9.39	66.08				2,762	8.23	34.57
5	California	221	165	6.86	127.60	1	7.00	107.14	101	8.21	84.58	1	12.00	50.00	3,698	8.60	47.14
6	Colorado	109	49	6.51	95.40				6	5.50	65.00				337	7.64	52.44
7	Connecticut	157	101	7.49	73.12	1	12.00	50.00							304	8.60	34.13
8	Delaware	47	32	5.41	52.80				2	7.50	52.80				88	6.33	28.67
9	Florida	202	136	8.53	89.02				74	9.97	70.30	5	6.20	53.23	826	9.94	34.28
10	Georgia	434	243	7.71	59.15				73	10.16	52.90	1	10.00	130.00	2,425	9.55	26.01
11	Idaho	41	10	6.00	101.14				2	8.50	52.94				38	4.55	72.20
12	Illinois	357	237	6.04	63.40	1	11.00	100.00	42	7.74	88.55				485	6.25	32.40
13	Indiana	1,903	1,199	7.03	59.79	6	8.00	24.48	126	10.29	57.21	6	10.17	27.77	1,519	9.36	34.24
14	Indian territory	3	1	10.00	100.00										12	10.00	44.17
15	Iowa	137	138	6.96	128.65	3	8.00	164.58	146	8.80	90.26	7	7.71	45.37	19	6.63	34.02
16	Kansas	27	14	4.00	36.14				4	3.00	50.00				29	5.28	38.46
17	Kentucky	595	460	6.30	66.90	1	12.00	50.00	75	9.84	70.30				1,260	9.23	33.42
18	Louisiana	122	93	9.23	107.02	1	10.00	90.00	94	10.96	72.46				505	8.62	39.92
19	Maine	831	428	7.07	60.83	3	2.00	35.83	88	9.25	62.32	7	9.86	54.11	3,941	4.16	30.36
20	Maryland	212	129	7.00	50.84				15	10.80	60.19				421	6.65	27.84
21	Massachusetts	464	327	7.51	61.31	1	12.00	33.33	33	11.39	80.25	6	9.50	33.32	885	9.26	41.59
22	Michigan	1,918	1,730	5.83	122.34	14	8.43	63.39	676	7.69	95.07	23	9.51	46.02	21,685	6.04	38.34
23	Minnesota	317	297	5.25	159.92				205	6.77	123.13	3	6.67	73.50	3,799	4.83	38.16
24	Mississippi	338	230	7.38	65.69				79	9.71	60.19	1	10.00	22.00	1,638	9.31	28.19
25	Missouri	748	447	5.40	62.89	1	12.00	41.67	71	9.73	73.73	4	10.75	50.70	1,508	7.58	35.22
26	Montana	30	16	8.38	87.31				8	7.13	140.00				428	6.02	45.76
27	Nebraska	31	23	7.17	52.73				1	12.00	83.33				44	5.23	24.64
28	New Hampshire	531	289	6.43	56.94				55	10.22	62.26	4	10.25	35.37	2,138	5.19	28.95
29	New Jersey	110	43	9.37	64.94				11	11.27	59.98				96	10.75	29.50
30	New Mexico	26	14	8.57	85.47										71	7.82	44.14
31	New York	1,664	1,412	5.89	58.32				129	9.05	80.58	6	11.00	30.53	3,230	5.95	32.94
32	North Carolina	688	380	7.48	53.63				69	9.19	43.72	1	3.00	25.00	1,925	9.63	20.06
33	North Dakota	5							3	4.00	275.00						
34	Ohio	1,427	1,415	6.16	62.15	2	6.50	30.77	94	9.57	84.48	7	9.29	32.58	1,070	8.62	32.30
35	Oklahoma	8	6	5.33	43.75												
36	Oregon	300	223	6.98	90.78	3	9.67	30.00	75	9.32	77.05				1,386	7.03	46.26
37	Pennsylvania	1,853	706	6.58	84.99	7	19.00	45.86	197	9.21	84.76	9	9.89	37.64	7,162	7.35	38.28
38	Rhode Island	29	7	9.14	61.89							1	12.00	33.33	39	9.42	39.67
39	South Carolina	328	171	6.72	46.34				26	10.54	40.68				1,148	8.08	19.56
40	South Dakota	41	9	7.11	90.86				2	12.00	35.83				168	8.58	37.04
41	Tennessee	787	910	6.12	57.84				79	9.47	73.92	1	12.00	50.00	752	7.72	28.21
42	Texas	284	175	8.19	122.20				132	10.16	69.46	1	5.00	50.00	2,033	9.30	39.11
43	Utah	30	15	4.40	126.89				2	9.00	100.00				62	6.37	42.75
44	Vermont	736	599	7.07	51.26				27	9.37	67.83	2	10.00	45.00	2,212	5.02	31.64
45	Virginia	638	307	7.12	54.90	2	11.50	34.78	55	10.65	58.83				1,529	7.77	23.08
46	Washington	310	284	8.40	124.67	5	7.40	33.78	192	9.62	87.11	1	8.00	62.50	1,223	8.27	57.14
47	West Virginia	428	524	6.25	52.84	1	2.00	35.00	54	9.81	59.99	4	12.00	30.00	1,213	8.10	31.31
48	Wisconsin	853	890	6.01	137.36	10	6.50	142.92	465	7.53	93.15	14	7.93	47.59	18,877	4.95	34.98
49	Wyoming	17	8	4.13	87.12				3	11.33	41.18				3	11.67	48.57

MONTHLY EARNINGS, LUMBER MILLS AND SAW MILLS, BY STATES AND TERRITORIES: 1890.

estimated number employed by contractors, are not included in this table.]

OPERATIVES, SKILLED AND UNSKILLED—continued.																					
Males above 16 years engaged in—(Continued)									Females above 15 years engaged in—						Children engaged in—						
Transportation.			Mill operations other than planing mill.			Planing mill.			Mill operations other than planing mill.			Planing mill.			Mill operations other than planing mill.			Planing mill.			
Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.	
773	8.32	$30.83	4,950	9.05	$30.66	519	9.93	$35.68	4	10.50	$12.38	.....	.....	.....	125	10.71	$15.37	39	8.18	$10.06	1
4	1.50	67.83	68	4.19	59.01	10	2.40	75.33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
25	10.00	79.20	87	9.97	61.21	7	11.00	61.04	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
710	8.35	33.73	5,352	8.26	35.36	631	9.89	32.81	1	7.00	14.29	1	12.00	$25.00	37	8.22	14.74	.....	.....	.....	4
627	8.02	51.23	3,933	8.09	51.49	275	7.69	49.30	28	7.11	35.31	1	7.00	21.43	6	11.17	27.61	.....	.....	.....	5
91	7.98	54.38	760	5.86	52.64	56	9.64	71.03	7	4.57	35.47	.....	.....	.....	.....	.....	.....	.....	.....	.....	6
42	10.36	38.66	601	8.38	39.38	34	10.32	32.58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
20	8.30	27.42	315	7.54	31.97	21	5.71	31.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
283	9.65	33.41	3,316	10.04	33.72	275	9.42	35.33	24	12.00	15.28	.....	.....	.....	60	10.67	10.56	.....	.....	.....	9
930	9.87	26.55	5,027	9.15	28.00	347	10.63	27.30	24	9.50	11.50	5	10.00	27.56	92	9.04	8.38	6	7.83	14.32	10
12	2.00	62.50	317	6.03	52.81	28	7.61	65.82	2	8.00	31.25	.....	.....	.....	2	4.00	25.00	.....	.....	.....	11
198	6.14	31.93	3,743	7.21	34.88	150	10.87	37.63	7	5.57	13.08	.....	.....	.....	66	7.53	14.43	.....	.....	.....	12
526	8.10	35.64	12,345	8.55	33.36	882	10.16	33.20	120	11.26	19.03	17	12.00	33.33	256	9.85	14.48	2	12.00	13.00	13
.....	.....	.....	38	6.97	44.53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
12	4.50	31.11	5,851	8.34	34.93	332	10.38	33.26	69	8.93	20.58	.....	.....	.....	219	8.14	15.34	5	10.60	17.21	15
.....	.....	.....	100	4.11	32.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	7.00	14.29	.....	.....	.....	16
122	8.53	35.75	5,624	7.95	31.05	230	6.92	35.36	7	11.14	14.77	.....	.....	.....	105	9.12	10.81	.....	.....	.....	17
221	9.20	41.86	2,508	9.39	38.53	265	11.14	41.13	.....	.....	.....	2	12.00	34.67	14	11.50	16.46	.....	.....	.....	18
2,383	2.66	34.78	7,596	7.73	34.71	332	8.46	42.38	67	9.31	21.02	.....	.....	.....	48	7.70	16.03	3	10.33	17.74	19
72	7.60	28.77	1,254	7.86	28.06	115	8.11	33.98	21	7.24	28.29	.....	.....	.....	31	7.00	15.54	10	10.00	10.00	20
133	8.44	37.04	2,326	8.93	38.80	334	9.45	41.93	5	12.00	25.00	.....	.....	.....	2	5.00	10.00	.....	.....	.....	21
3,775	3.36	47.80	40,687	7.20	40.83	1,164	8.89	40.29	213	7.75	21.65	.....	.....	.....	324	7.55	16.13	26	11.38	13.77	22
2,097	2.29	54.14	9,314	6.38	43.57	631	9.73	46.39	11	3.36	30.05	.....	.....	.....	21	6.48	21.24	2	11.00	17.32	23
656	8.80	29.91	3,630	8.98	29.49	392	9.96	38.29	6	8.67	16.04	.....	.....	.....	29	9.52	14.57	4	10.00	15.00	24
558	6.61	32.57	4,572	7.00	36.19	326	9.87	39.43	44	11.07	19.50	.....	.....	.....	24	9.04	12.38	1	11.00	14.18	25
95	3.49	73.57	525	8.37	60.60	54	10.43	51.69	1	10.00	42.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
.....	.....	.....	138	6.84	42.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
852	3.44	41.89	3,726	8.27	36.67	239	8.34	39.82	73	10.64	23.01	.....	.....	.....	29	9.45	13.01	.....	.....	.....	28
.....	.....	.....	517	9.61	32.80	52	10.42	39.37	2	11.00	27.27	.....	.....	.....	2	11.50	14.97	.....	.....	.....	29
33	10.33	63.82	304	8.40	57.70	8	9.75	43.59	1	8.00	20.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
1,337	4.95	34.59	9,464	7.40	35.37	1,182	8.07	37.10	75	8.33	16.98	.....	.....	.....	100	8.70	14.97	8	8.75	16.43	31
658	9.37	23.32	5,696	8.45	22.03	315	8.15	25.90	11	7.82	11.49	.....	.....	.....	45	9.58	12.19	4	11.00	9.09	32
.....	.....	.....	135	3.83	43.54	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
267	8.75	36.89	9,796	8.01	33.78	769	7.61	40.41	38	7.82	13.87	.....	.....	.....	253	9.32	14.80	7	11.71	13.17	34
.....	.....	.....	29	5.62	31.72	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35
556	6.34	39.77	3,035	8.35	51.26	394	7.86	50.14	15	8.33	19.18	3	9.00	11.11	2	12.00	8.33	.....	.....	.....	36
7,753	3.22	42.26	16,183	7.12	38.89	735	8.57	40.05	68	7.31	19.76	.....	.....	.....	111	7.82	15.22	28	12.00	16.79	37
.....	.....	.....	104	7.89	37.51	67	11.91	32.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
440	8.87	20.45	2,150	7.57	21.69	45	5.42	23.16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39
7	6.71	39.15	288	6.27	40.08	50	8.36	40.67	3	4.67	31.43	.....	.....	.....	.....	.....	.....	.....	.....	.....	40
348	6.93	28.43	6,010	8.06	30.24	754	10.10	35.12	18	9.28	10.87	.....	.....	.....	72	7.57	12.16	38	11.74	13.45	41
896	9.23	42.61	5,288	9.31	37.39	1,027	10.65	39.18	8	8.63	22.29	.....	.....	.....	29	8.03	18.31	2	11.00	12.50	42
27	7.56	40.67	184	4.57	49.33	25	7.72	52.18	1	1.00	15.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	43
718	5.34	32.93	4,776	8.23	31.09	717	8.00	31.72	48	11.04	14.75	.....	.....	.....	51	10.37	13.25	.....	.....	.....	44
816	8.04	24.06	4,660	8.47	26.51	273	9.08	30.82	33	9.21	16.20	2	8.00	50.00	80	10.99	11.09	.....	.....	.....	45
699	5.96	51.85	6,453	9.03	55.09	579	9.64	58.14	16	6.38	35.46	.....	.....	.....	10	7.90	24.56	.....	.....	.....	46
538	7.38	31.64	3,279	8.15	30.89	314	9.03	37.63	5	7.00	14.51	.....	.....	.....	33	9.27	12.19	10	8.00	12.50	47
4,597	2.60	53.46	26,756	7.16	38.26	3,278	9.47	40.45	247	7.47	21.57	24	9.50	30.04	90	8.38	12.28	50	11.16	17.06	48
2	6.00	45.00	89	7.84	49.40	6	4.00	50.00	1	9.00	27.78	.....	.....	.....	1	12.00	25.00	.....	.....	.....	49

TABLE 4.—AVERAGE NUMBER OF EMPLOYÉS AT THE DIFFERENT MONTHLY RATES OF

[The 42,025 employés shown in Table 2, reported as the estimated

	STATES AND TERRITORIES.	Number of establishments reporting.	MONTHLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS, FIRM MEMBERS, AND CLERKS, BUT NOT THOSE EMPLOYED ON PIECEWORK. (a)									
			Males above 16 years engaged in—									
			Woods.									
			Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $18.	$18 and over but under $20.	$20 and over but under $25.	$25 and over but under $30.	$30 and over but under $35.	$35 and over but under $40.
1	The United States	21,011	07,218	137	114	683	1,413	1,311	8,400	14,855	21,888	23,542
2	Alabama	437	2,182		1	7	33	62	638	747	365	178
3	Alaska	10	1									1
4	Arizona	4	42									
5	Arkansas	523	2,762	12	6	16	38	60	351	514	750	504
6	California	221	3,698	24	2	120	1	11	121	188	200	623
7	Colorado	109	337							10	18	26
8	Connecticut	157	304					3	20	57	94	94
9	Delaware	47	88				6		19	36	11	12
10	Florida	202	826						119	277	128	146
11	Georgia	434	2,425	8	12	27	129	123	780	809	358	52
12	Idaho	41	38									
13	Illinois	357	485				2		38	192	151	59
14	Indiana	1,603	1,519				10	22	101	386	455	271
15	Indian territory	3	12									
16	Iowa	137	19							8	5	5
17	Kansas	27	29							10	12	
18	Kentucky	595	1,260		12		13	28	60	122	783	160
19	Louisiana	122	505		4		11	6	14	89	125	13
20	Maine	831	3,941			38	41	8	420	1,043	1,059	520
21	Maryland	212	421				6	1	53	177	124	46
22	Massachusetts	464	885		3		23	30	55	102	163	142
23	Michigan	1,918	21,685			3		27	322	822	3,623	10,321
24	Minnesota	317	3,799						55	534	838	1,007
25	Mississippi	338	1,638	2	7	7	40	55	440	592	302	100
26	Missouri	748	1,508		3	12	13	5	39	466	527	257
27	Montana	30	428								71	13
28	Nebraska	31	44				6		3	26	3	3
29	New Hampshire	531	2,138	12		4		6	564	344	536	401
30	New Jersey	110	96						6	57	10	12
31	New Mexico	26	71								4	20
32	New York	1,664	3,230		1	3	29		233	735	1,149	608
33	North Carolina	688	1,925	33	30	200	546	309	485	199	78	8
34	North Dakota	5										
35	Ohio	1,427	1,070	7			3	9	149	218	310	228
36	Oklahoma	8										
37	Oregon	300	1,386	2		5	27	13	57	53	92	193
38	Pennsylvania	1,853	7,162				2	2	77	222	2,219	2,806
39	Rhode Island	29	39								15	6
40	South Carolina	328	1,148	17	15	184	239	251	270	81	65	3
41	South Dakota	41	168				20		5	11	41	29
42	Tennessee	787	752			9	5	26	170	276	148	79
43	Texas	284	2,033		5	3	15	32	136	175	447	400
44	Utah	30	62							3	27	
45	Vermont	736	2,212				6		257	701	881	242
46	Virginia	638	1,529	19	13	45	127	85	642	525	38	15
47	Washington	310	1,223					1		1	2	85
48	West Virginia	428	1,213	1			2	8	67	398	554	100
49	Wisconsin	853	18,877				20	128	1,634	3,649	4,507	3,745
50	Wyoming	17	3									

a In comparing the monthly rates of wages and number of employés at each rate with the average monthly earnings, it must be remembered that it is impracticable to obtain true average monthly earnings from the table of monthly rates, because the term of employment varies for employés reported at the respective rates.

PAY, LUMBER MILLS AND SAW MILLS, BY STATES AND TERRITORIES: 1890.

number employed by contractors, are not included in this table.]

MONTHLY RATE OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS, FIRM MEMBERS, AND CLERKS, BUT NOT THOSE EMPLOYED ON PIECEWORK—continued.														
Males above 16 years engaged in—(Continued)														
Woods—Continued.		Transportation.												
$40 and over but under $50.	$50 and over.	Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $18.	$18 and over but under $20.	$20 and over but under $25.	$25 and over but under $30.	$30 and over but under $35.	$35 and over but under $40.	$40 and over but under $50.	$50 and over.	
17,121	7,754	34,909	5	31	86	423	573	1,813	3,130	5,059	4,114	8,738	10,937	1
104	47	773			1	8	9	158	293	187	40	38	39	2
		4											4	3
	42	25											25	4
243	268	710		4	4	28		71	135	211	113	125	19	5
772	1,636	627					106	7	18	25	21	91	359	6
115	168	91						2	4	4	2	21	58	7
26	10	42						4		9	13	10	6	8
2	2	20						4	10	4	2			9
120	36	283						15	108	91	17	3	49	10
41	86	930		8	5	35	45	309	398	102	17	4	7	11
5	33	12											12	12
38	5	198						10	81	49	58			13
170	104	526				2		9	75	213	110	91	17	14
12														15
	1	12							8	4				16
5	2													17
63	19	122					3	12	39	19	7	32	10	18
180	63	221						26	30	25	14	65	61	19
150	53	2,383				100	2	5	312	703	287	399	575	20
9	5	72					3	14	20	21	8	6		21
177	190	133							4	55	32	31	11	22
5,130	1,437	3,775						8	18	41	311	2,131	1,266	23
1,094	271	2,097						2	55	10	67	851	1,112	24
41	52	656		4	2	3		105	186	161	74	42	19	25
96	90	558				6	3	49	137	224	87	44	8	26
212	132	95								2		2	91	27
1	2													28
208	63	852						3	60	304	117	347	21	29
10	1													30
26	21	33											33	31
322	150	1,337					4	116	110	340	361	239	167	32
18	19	658	4	15	40	144	97	165	122	15	10	22	24	33
														34
67	79	267				2		2	41	38	83	64	37	35
														36
437	507	556			5		38	19	46	76	60	119	193	37
1,669	165	7,753						7	64	971	1,203	2,593	2,825	38
14	4													39
13	10	440		4	15	26	117	210	46	22				40
28	34	7							4			1	2	41
18	21	348			3	6	5	66	157	66	34	8	3	42
537	283	896				3		10	52	125	88	377	241	43
11	21	27										25	2	44
66	59	718					45	9	59	442	124	24	15	45
12	8	816	1		9	45	93	314	210	132	12			46
369	765	699									4	196	499	47
35	48	538						20	183	189	96	40	10	48
4,453	741	4,597				16		2	45	179	543	695	3,117	49
2	1	2										2		50

TABLE 4.—AVERAGE NUMBER OF EMPLOYÉS AT THE DIFFERENT MONTHLY RATES OF

	STATES AND TERRITORIES.	MONTHLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS, FIRM MEMBERS, AND CLERKS, BUT NOT THOSE EMPLOYED ON PIECEWORK—continued.									
		Males above 16 years engaged in—(Continued)									
		Mill operations other than planing mill.									
		Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $18.	$18 and over but under $20.	$20 and over but under $25.	$25 and over but under $30.	$30 and over but under $35.	$35 and over but under $40.
1	The United States	253,136	351	360	1,351	4,285	4,531	18,697	40,255	51,753	45,585
2	Alabama	5,328			4	84	117	1,014	1,829	1,158	372
3	Alaska	76							3		2
4	Arizona	90									
5	Arkansas	5,767	18	7	51	116	170	480	1,175	1,458	813
6	California	4,199					1	2	27	471	490
7	Colorado	815					1	5	38	75	89
8	Connecticut	702				1		27	50	110	240
9	Delaware	349			4	21	14	32	61	90	40
10	Florida	3,526		1	6	21	23	466	1,055	644	510
11	Georgia	5,343	6	15	120	208	216	1,431	1,686	686	378
12	Idaho	320						3	2	14	63
13	Illinois	4,022		2	28	12	25	313	820	635	1,327
14	Indiana	13,670	14	27	44	112	213	1,000	3,307	3,871	2,043
15	Indian territory	39									10
16	Iowa	6,135	115	23	10	12	15	197	613	1,348	1,905
17	Kansas	118				3		17	21	30	26
18	Kentucky	6,159	12	24	74	196	253	841	1,985	1,155	493
19	Louisiana	2,695			2	63	6	157	566	588	386
20	Maine	8,112	1	7	14	44	91	530	1,325	2,377	1,516
21	Maryland	1,398	13	3	20	69	76	177	484	249	137
22	Massachusetts	2,686	29	1	3	1	56	91	224	583	557
23	Michigan	43,093	29	57	119	537	186	952	2,943	7,431	11,356
24	Minnesota	9,816			6	13	41	191	605	1,580	1,898
25	Mississippi	3,939	7	11	25	98	230	758	1,009	770	445
26	Missouri	5,090	1	3	16	60	27	381	1,058	1,465	605
27	Montana	549						23	8	13	25
28	Nebraska	162					3	24	17	26	17
29	New Hampshire	4,070		1	9	10	8	285	511	1,153	982
30	New Jersey	571			5	5	14	53	135	155	69
31	New Mexico	318			7			11		14	10
32	New York	11,005			7	20	89	418	2,149	3,084	2,033
33	North Carolina	6,145	30	91	427	1,210	875	1,343	873	588	213
34	North Dakota	138									115
35	Ohio	11,305	5		16	148	118	769	2,025	3,138	1,851
36	Oklahoma	35							12	17	
37	Oregon	3,333	2			67	24	78	144	292	255
38	Pennsylvania	17,086	8	2	13	70	97	588	1,967	3,922	4,034
39	Rhode Island	111						1	11	33	21
40	South Carolina	2,347	17	29	141	415	360	589	456	162	47
41	South Dakota	299		5	4		8	13	7	97	34
42	Tennessee	6,999	13	31	56	190	209	1,410	1,926	1,334	616
43	Texas	5,595	22	1	13	31	88	331	1,083	1,081	1,154
44	Utah	201						7	3	24	14
45	Vermont	5,402		3	9	16	88	376	1,587	1,640	708
46	Virginia	5,022	4	8	42	276	340	1,267	1,681	730	255
47	Washington	6,920	5			1	5	41	94	405	508
48	West Virginia	3,857		2	8	29	43	267	1,040	1,315	431
49	Wisconsin	28,111		6	48	117	351	1,738	3,634	5,739	6,395
50	Wyoming	100							6	3	8

PAY, LUMBER MILLS AND SAW MILLS, BY STATES AND TERRITORIES: 1890—Continued.

MONTHLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS, FIRM MEMBERS, AND CLERKS, BUT NOT THOSE EMPLOYED ON PIECEWORK—continued.

Males above 16 years engaged in—(Continued)														
Mill operations other than planing mill—Cont'd.		Planing mill.												
$40 and over but under $50.	$50 and over.	Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $18.	$18 and over but under $20.	$20 and over but under $25.	$25 and over but under $30.	$30 and over but under $35.	$35 and over but under $40.	$40 and over but under $50.	$50 and over.	
43,276	42,742	18,230		11	34	181	275	950	3,521	3,897	2,898	2,844	3,619	1
303	447	519						77	154	101	42	100	45	2
27	44	10											10	3
	90	7										2	5	4
802	677	631				68		31	140	186	69	71	66	5
1,010	2,198	275					5	2	2	24	43	37	162	6
172	435	56							3		1		52	7
116	159	34							4	12	15	3		8
50	37	21						10		5		4	2	9
433	367	275				5	5	34	84	66	18	31	32	10
166	431	347				2		42	245	12	25	10	11	11
37	210	28										9	19	12
530	330	150						12	44	16	30	47	1	13
1,469	1,570	882				2	5	13	185	420	104	91	62	14
10	19													15
961	846	332					20	5	88	67	71	37	44	16
8	13													17
538	588	230					3	11	27	71	9	95	14	18
372	555	265					15	20	46	43	22	7	112	19
1,374	833	332						6	48	49	112	42	75	20
93	77	115			2			12	50	21	23	3	4	21
602	539	334					4	11	24	58	80	82	75	22
10,743	8,740	1,164			3	5	2	28	144	228	248	201	305	23
3,355	2,127	631					5	19	29	67	81	212	218	24
267	269	392					3	40	90	72	45	85	57	25
831	643	326				9		5	71	56	26	95	64	26
29	451	54								1		20	33	27
11	64													28
638	473	230						1	39	52	43	55	49	29
65	70	52						3	6	5	15	14	9	30
118	158	8										5	3	31
1,261	1,935	1,182					8	46	180	336	315	130	167	32
197	298	315			3	45	44	84	66	18	11	23	21	33
6	17													34
1,229	2,006	760			1			15	69	194	193	168	120	35
4	2													36
952	1,519	394				1	4	15	14	57	26	66	211	37
3,943	2,442	736		9			4	17	86	155	152	159	153	38
32	18	67							17	47	3			39
51	80	45			2	1	14	12	14	2				40
76	55	50								2	14	26	8	41
613	601	754		2	5	4	41	45	258	130	99	68	102	42
909	882	1,027			3	1		14	76	260	275	246	152	43
63	90	25							3	10			12	44
466	509	717				2	12	37	246	273	68	41	38	45
170	249	273					20	43	108	46	9	7	40	46
1,813	4,057	579								10	16	116	437	47
312	410	314						7	112	67	34	18	76	48
6,027	4,056	3,278			15	36	61	233	749	658	561	418	547	49
22	61	6											6	50

TABLE 4.—AVERAGE NUMBER OF EMPLOYÉS AT THE DIFFERENT MONTHLY RATES OF

	STATES AND TERRITORIES.	MONTHLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS, FIRM MEMBERS, AND CLERKS, BUT NOT THOSE EMPLOYED ON PIECEWORK—continued.															
		Females above 15 years engaged in—															
		Mill operations other than planing mill.												Planing mill.			
		Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $18.	$18 and over but under $20.	$20 and over but under $25.	$25 and over but under $30.	$30 and over but under $35.	$35 and over but under $40.	$40 and over but under $50.	$50 and over.	Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.
1	The United States	1,514	60	52	158	282	260	208	248	85	31	31	99	55		3	
2	Alabama	7		1	2	1					1		2				
3	Alaska																
4	Arizona																
5	Arkansas	1			1									1			
6	California	30				2		3	2	4	5	11	3	1			
7	Colorado	7					1	1	1	2		1	1				
8	Connecticut	1											1				
9	Delaware																
10	Florida	29			9	15			2				3				
11	Georgia	25	11		13								1	5			
12	Idaho	2								2							
13	Illinois	8	3	1			1	1	1				1				
14	Indiana	141	8	8		39		80	1	3			2	17			
15	Indian territory																
16	Iowa	79	1				40	28	1	1		3	5				
17	Kansas																
18	Kentucky	8			1	6							1				
19	Louisiana	1											1	2			
20	Maine	77		3	13	19	10	3	16	7	1		5				
21	Maryland	21							21								
22	Massachusetts	12						1	8	1			2				
23	Michigan	250	3	9	35	37	45	14	36	33	7	4	27				
24	Minnesota	14			2	1		2	4		1		4				
25	Mississippi	7	1	2		1		1	2								
26	Missouri	49			1	1	40	1		1	1	2	2				
27	Montana	1										1					
28	Nebraska																
29	New Hampshire	77		2		9	12	6	39	7			2				
30	New Jersey	2							2								
31	New Mexico	1						1									
32	New York	81	2	2	14	22	21	10	8	1	1						
33	North Carolina	12	6	1	1	2	1		1								
34	North Dakota																
35	Ohio	47	2	7	8	21		1	5	1		1	1				
36	Oklahoma																
37	Oregon	18	1	7		1	3	1	1	1	2		1	3		3	
38	Pennsylvania	84	5		4	10	30	15	6	5		2	7				
39	Rhode Island	1								1							
40	South Carolina																
41	South Dakota	3						2				1					
42	Tennessee	19	7	3	1	6						1	1				
43	Texas	9				4		1	1		2		1				
44	Utah	1				1											
45	Vermont	50	2		30		8	8		1			1				
46	Virginia	35	1	1	9	13	1	8			1		1	2			
47	Washington	22	2			4		2	1	5		2	6				
48	West Virginia	10			3	1		2	1		3						
49	Wisconsin	271	5	5	11	66	47	16	87	9	6	2	17	24			
50	Wyoming	1							1								

PAY, LUMBER MILLS AND SAW MILLS, BY STATES AND TERRITORIES: 1890—Continued.

MONTHLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS, FIRM MEMBERS, AND CLERKS, BUT NOT THOSE EMPLOYED ON PIECEWORK—continued.																	
Females above 15 years engaged in—(Continued)								Children engaged in—									
Planing mill—(Continued)								Mill operations other than planing mill.					Planing mill.				
$15 and over but under $18.	$18 and over but under $20.	$20 and over but under $25.	$25 and over but under $30.	$30 and over but under $35.	$35 and over but under $40.	$40 and over but under $50.	$50 and over.	Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over.	Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over.	
2	1	3	19	20	1	1	5	2,371	556	298	512	1,005	245	30	30	95	90	1
								125	11	4	42	68	39	15	4	20		2
																		3
																		4
			1					37	12	4	13	8						5
		1						6				6						6
																		7
																		8
																		9
								60	29	16		15						10
			5					92	77	3	1	11	6			6		11
								2				2						12
								66	13	13	16	24						13
				17				256	45	15	47	149	2			2		14
																		15
								219	21	28	36	134	5		1		4	16
								2			2							17
								105	68	13	19	5						18
				2				14			7	7						19
								48	6	2	8	32	3				3	20
								31	8		6	17	10		10			21
								2		2								22
								324	59	72	74	119	20	1	10	7	8	23
								21		7		14	2				2	24
								29	2	2	9	16	4				4	25
								24	8	3	10	3	1			1		26
																		27
																		28
								29	8	4	11	6						29
								2			2							30
																		31
								100	30	11	25	34	8		5		3	32
								45	19	9	17		4	4				33
																		34
								253	18	23	66	146	7	5			2	35
																		36
								2	2									37
								111	31	5	21	54	28			4	24	38
																		39
																		40
																		41
								72	5	22	26	19	38			33	5	42
								20	4	2	5	18	2			2		43
																		44
								51	1	21	13	16						45
							2	80	37	8	15	20						46
								10		1		9						47
								33	14	5	4	10	10			10		48
2	1	2	13	1	1	1	3	90	28	3	17	42	50	5		10	35	49
								1				1						50

TABLE 5.—DETAILED STATEMENT, TIMBER PRODUCTS NOT MANUFACTURED BY

	STATES AND TERRITORIES.	Number of establishments reporting.	CAPITAL.										
			Value of hired property.	Direct investment.									
				Aggregate.	Timbered land or standing timber.	Plant.							
						Total.	Tools, implements, and live stock.	Logging, railways and equipment.	Canals and chutes.	River improvements.	Vessels.	All other items of investment in plant.
1	The United States	1,606	$1,396,818	$61,541,086	$30,894,979	$6,928,110	$3,196,888	$1,457,307	$109,705	$286,740	$571,404	$1,306,066
2	Alabama	35	11,250	234,938	91,075	46,583	33,613	1,200	8,000	220	250	3,300
3	Arkansas	16	2,000	109,777	47,850	21,028	14,478	.....	.....	50	.....	6,500
4	California	37	3,500	350,599	211,720	72,575	42,925	1,800	17,000	.....	10,800	50
5	Colorado	11	.....	102,905	28,450	8,915	8,665	.....	.....	.....	.....	250
6	Connecticut	19	4,000	81,930	28,810	19,705	17,275	.....	.....	200	.....	2,230
7	Florida	13	2,400	39,867	6,270	7,825	7,475	.....	.....	.....	50	300
8	Georgia	15	12,500	135,067	89,625	33,410	26,160	7,000	250	.....	.....	.....
9	Idaho	3	.....	42,250	.....	16,050	12,550	3,500	.....	.....	.....	.....
10	Illinois	6	10,000	38,650	16,000	16,130	13,630	.....	.....	2,500	.....	.....
11	Indiana	30	8,300	148,897	45,316	33,107	26,232	25	.....	.....	.....	6,850
12	Iowa	6	4,000	42,510	4,300	13,425	5,425	1,000	.....	.....	.....	7,000
13	Kentucky	4	.....	16,400	2,700	5,200	4,400	.....	.....	.....	.....	800
14	Louisiana	5	.....	127,715	65,500	12,915	8,535	3,300	.....	.....	80	1,000
15	Maine	63	20,700	1,094,868	322,602	153,975	125,225	3,050	.....	13,750	2,600	9,350
16	Maryland	5	2,400	10,100	5,360	2,370	2,370	.....	.....	.....	.....	.....
17	Massachusetts	24	.....	133,827	60,000	18,855	16,655	.....	.....	.....	.....	2,200
18	Michigan	206	64,303	18,476,744	9,209,983	2,025,869	519,856	180,978	200	55,135	517,678	752,022
19	Minnesota	75	79,000	11,121,863	8,396,805	817,060	454,360	125,500	.....	85,000	3,500	148,700
20	Mississippi	28	17,950	65,559	15,788	8,691	7,136	.....	.....	.....	300	1,255
21	Missouri	82	15,000	587,307	181,517	274,088	57,220	200,000	5,000	.....	50	11,818
22	New Hampshire	39	1,000	1,369,787	782,405	346,547	91,862	175,300	.....	2,500	.....	76,885
23	New Jersey	4	.....	10,978	5,900	4,056	1,256	.....	.....	.....	.....	2,800
24	New York	70	.....	696,291	137,868	103,866	71,101	15,000	200	275	.....	17,290
25	North Carolina	25	12,800	57,218	17,290	20,297	14,395	4,900	.....	25	32	945
26	Ohio	34	1,600	71,043	25,663	11,110	6,810	.....	.....	.....	.....	4,300
27	Oregon	50	57,200	560,165	229,645	170,825	82,150	52,350	12,650	2,550	25	21,100
28	Pennsylvania	95	20,070	1,584,520	861,240	217,077	106,777	89,900	1,100	5,500	.....	13,800
29	Rhode Island	3	.....	9,235	4,300	3,115	2,615	.....	.....	.....	.....	500
30	South Carolina	24	7,500	120,940	27,720	14,650	12,345	130	.....	.....	100	2,075
31	Tennessee	33	.....	72,900	27,694	17,500	15,615	160	.....	.....	.....	1,725
32	Texas	30	7,500	500,844	171,065	139,746	38,283	75,793	220	.....	.....	25,450
33	Vermont	43	1,545	174,379	83,110	21,535	17,770	.....	.....	.....	.....	3,765
34	Virginia	25	8,500	62,925	25,110	17,195	8,930	1,500	1,500	.....	300	4,965
35	Washington	152	151,450	1,954,878	657,695	693,294	363,755	149,700	41,340	12,600	2,525	63,374
36	West Virginia	26	.....	545,042	352,550	43,862	22,322	5,390	.....	8,000	.....	8,150
37	Wisconsin	266	869,450	20,772,278	8,656,053	1,544,829	933,187	359,831	22,245	98,435	26,114	105,017
38	All other states and territories (a)	4	.....	15,890	.....	10,830	3,530	.....	.....	.....	7,000	300

a Includes states and territories having less than 3 establishments, in order that the operations of individual establishments may not be disclosed. These establishments are distributed as follows: Delaware, 1; Montana, 1; Utah, 2.

MILLING ESTABLISHMENTS, BY STATES AND TERRITORIES: 1890.

CAPITAL—continued.			MISCELLANEOUS EXPENSES.							
Direct investment—Continued.										
Live assets.										
Total.	Value of product on hand.	Cash, bills and accounts receivable, and all sundries not elsewhere reported.	Total.	Rent paid for tenancy (not including cost of stumpage).	Taxes.	Insurance.	Repairs, ordinary, of buildings and machinery.	Interest paid on cash used in the business.	All sundries not elsewhere reported.	
$23,717,997	$15,149,249	$8,568,748	$3,708,364	$78,967	$362,801	$105,246	$140,145	$390,914	$2,630,291	1
97,280	80,380	16,900	4,201	450	917	179	1,530	205	920	2
40,899	23,490	17,409	3,369	100	192	240	946	1,541	350	3
66,304	45,580	20,724	16,581	470	3,880	329	3,415	3,730	4,757	4
65,540	37,115	28,425	5,365	.....	1,037	153	1,565	2,150	460	5
33,415	14,540	18,875	2,053	200	362	143	100	563	685	6
25,772	12,636	13,136	864	120	28	26	390	150	150	7
12,032	4,935	7,097	1,779	500	226	462	570	19	2	8
26,200	11,200	15,000	15	.....	15	.....	.....	.....	.....	9
6,520	4,720	1,800	6,575	500	364	50	220	341	5,100	10
70,474	44,440	26,034	4,084	415	636	287	1,348	1,081	317	11
24,785	12,160	12,625	4,093	200	208	.....	200	3,000	485	12
8,500	8,300	200	625	.....	75	.....	550	.....	.....	13
49,300	24,300	25,000	3,222	.....	55	.....	1,282	610	1,275	14
618,291	462,865	155,426	23,814	1,035	3,893	1,438	4,034	10,724	2,690	15
2,370	1,175	1,195	331	110	100	55	55	11	.....	16
54,972	39,662	15,310	2,457	.....	835	206	280	1,061	75	17
7,240,892	3,953,580	3,287,312	1,263,682	3,861	114,941	63,200	17,765	153,331	910,584	18
1,907,998	718,809	1,189,189	462,186	4,800	44,133	4,025	14,914	43,319	350,995	19
41,080	19,620	21,460	4,189	718	460	40	265	454	2,252	20
131,702	78,471	53,231	8,635	676	1,171	146	2,485	1,633	2,524	21
240,835	130,270	110,565	39,045	56	5,318	3,611	2,250	3,336	24,474	22
1,022	622	400	144	.....	56	22	.....	.....	66	23
454,557	320,932	133,625	31,170	.....	1,016	4,159	2,600	5,733	17,662	24
19,631	11,517	8,114	4,564	640	366	180	1,445	385	1,548	25
34,270	20,655	13,615	1,396	100	252	107	188	19	730	26
159,695	116,985	42,710	20,034	2,860	1,818	251	4,240	2,457	8,408	27
506,203	359,140	147,063	39,799	1,811	6,570	2,946	5,467	7,094	15,911	28
1,820	770	1,050	2,214	.....	114	200	100	.....	1,800	29
78,570	45,715	32,855	2,697	300	172	.....	200	1,590	435	30
27,706	17,749	9,957	4,019	.....	163	.....	205	154	3,497	31
190,033	133,158	56,875	21,300	300	3,029	1,634	5,262	9,585	1,490	32
69,734	54,487	15,247	4,791	85	606	144	190	1,061	2,705	33
20,620	15,385	5,235	2,553	425	194	38	321	350	1,225	34
663,889	540,325	123,564	60,795	6,058	4,949	475	21,442	8,993	18,878	35
148,630	104,123	44,507	9,933	.....	2,393	400	2,826	2,175	2,139	36
10,571,396	7,676,738	2,894,658	1,645,429	52,177	162,246	20,100	41,145	124,059	1,245,702	37
5,060	2,700	2,360	361	.....	11	.....	350	.....	.....	38

TABLE 5.—DETAILED STATEMENT, TIMBER PRODUCTS NOT MANUFACTURED BY

	STATES AND TERRITORIES.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.											
		Aggregates.		Officers or firm members.		Engineers, blacksmiths, and other skilled workmen and foremen.		Hewers.		Choppers.		Skidders.	
		Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.
1	The United States	46,142	$11,353,608	907	$514,559	2,302	$843,285	1,939	$493,395	11,850	$2,503,234	5,559	$1,205,679
2	Alabama	614	124,866	21	12,924	16	5,292	69	13,545	266	45,675	9	2,249
3	Arkansas	276	56,166	10	4,846	6	2,440	77	14,507	99	19,336	7	1,404
4	California	392	158,691	23	9,800	9	6,805	24	8,380	151	59,900	2	600
5	Colorado	313	106,055	6	4,880	6	3,850	59	19,750	162	57,744	11	3,100
6	Connecticut	136	43,470	5	2,450	14	5,661	7	2,500	36	11,940	.....	.....
7	Florida	341	48,597	2	650	3	1,240	73	9,745	92	14,625	.....	.....
8	Georgia	348	115,001	5	2,665	21	9,960	25	6,977	32	7,192	1	400
9	Idaho	34	20,350	1	1,800	3	4,000	.....	.....	21	9,500	.....	.....
10	Illinois	58	11,340	3	1,000	10	5,400	11	430	20	1,710	2	400
11	Indiana	547	168,367	11	4,905	54	19,015	163	51,660	59	17,398	.....	.....
12	Iowa	105	195,480	3	1,400	11	1,100	1	300	20	7,680	.....	.....
13	Kentucky	81	17,415	5	1,460	5	485	13	3,135	21	6,135	.....	.....
14	Louisiana	414	81,574	6	3,150	7	1,850	4	312	23	3,576	.....	.....
15	Maine	3,167	422,690	33	13,766	83	17,161	9	1,742	1,630	212,371	270	33,502
16	Maryland	23	2,601	5	780	1	84	.....	.....	10	974	.....	.....
17	Massachusetts	161	35,059	8	3,762	3	1,242	7	1,154	59	10,997	3	810
18	Michigan	10,292	2,722,172	133	105,872	320	172,604	322	111,812	2,106	498,392	1,289	327,933
19	Minnesota	5,991	1,261,453	99	68,291	366	128,486	359	89,757	1,744	335,725	718	147,951
20	Mississippi	317	45,863	14	5,654	5	2,102	46	6,233	53	8,543	3	720
21	Missouri	1,514	576,785	28	9,890	101	27,214	154	24,907	196	53,736	1	80
22	New Hampshire	1,075	284,917	8	1,629	29	9,035	41	7,156	356	90,484	81	27,895
23	New Jersey	22	5,276	1	500	6	1,896	.....	.....	6	2,400	.....	.....
24	New York	1,391	362,008	27	10,069	55	23,395	23	4,395	267	58,105	177	43,529
25	North Carolina	273	49,083	8	2,730	1	168	6	1,460	107	16,394	5	1,075
26	Ohio	198	44,036	9	3,558	12	2,172	3	310	81	15,301	2	728
27	Oregon	757	224,798	19	8,785	17	6,514	32	11,900	247	64,363	90	27,353
28	Pennsylvania	1,890	544,462	36	14,744	51	20,943	89	29,274	344	85,691	80	16,032
29	Rhode Island	17	6,950	.....	.....	3	1,350	.....	.....	9	3,300	.....	.....
30	South Carolina	349	59,627	7	1,780	3	1,100	97	10,030	61	6,660	1	46
31	Tennessee	277	45,325	11	2,170	10	2,125	1	50	31	5,676	5	150
32	Texas	999	369,707	26	17,882	89	31,655	74	25,035	248	83,355	92	39,608
33	Vermont	311	39,699	10	2,690	3	700	5	850	67	8,175	21	1,727
34	Virginia	368	41,613	11	3,265	41	7,152	14	2,700	73	11,396	1	275
35	Washington	2,432	1,108,376	96	64,938	61	42,988	64	27,400	538	243,299	414	175,620
36	West Virginia	478	89,059	21	7,520	34	10,375	12	710	174	35,021	17	3,650
37	Wisconsin	10,123	1,852,757	194	111,154	841	259,726	55	5,279	2,439	389,865	2,257	348,842
38	All other states and territories	58	11,920	2	1,200	11	6,000	.....	.....	2	600	.....	.....

MILLING ESTABLISHMENTS, BY STATES AND TERRITORIES: 1890—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.						ANIMALS IN USE.		MATERIALS USED.					
Teamsters.		Pieceworkers.		All other employés.		Average number.	Cost of keep.	Total cost.	Standing timber.			Cost of all other materials.	
									Quantity.		Cost. (Stumpage value.)		
Number.	Wages.	Number.	Wages.	Number.	Wages.				Number of cords.	Number of 1,000 feet, scaled measure.			
6,392	$1,495,300	9,704	$2,503,050	7,489	$1,795,106	22,053	$1,479,426	$11,006,678	534,668	3,728,142	$10,451,339	$555,339	1
107	20,476	114	22,790	12	1,915	578	34,381	69,899	2,500	60,962	65,924	3,975	2
36	6,368	22	3,850	19	3,415	184	9,320	15,199	.....	13,606	14,599	600	3
68	31,290	46	15,362	69	26,554	313	29,227	65,222	44,414	14,939	58,552	6,670	4
66	15,951	.....	.....	3	780	194	13,465	37,365	14,871	12,398	26,600	10,675	5
29	10,819	44	9,950	1	150	95	10,063	23,809	2,760	5,917	21,925	1,884	6
22	5,239	142	16,380	7	718	132	8,269	11,694	.....	12,771	11,604	.....	7
33	10,290	218	75,575	13	1,942	287	23,700	41,222	.....	31,907	40,888	334	8
9	5,050	.....	.....	.....	.....	94	8,705	57,925	825	28,600	57,925	.....	9
7	900	3	300	2	1,200	52	1,585	13,706	3,035	1,399	12,870	836	10
69	26,225	183	47,940	8	1,224	145	8,778	59,525	18,914	26,393	58,105	1,420	11
13	3,725	57	181,275	.....	.....	12	1,800	14,455	.....	9,411	14,430	25	12
15	3,600	12	600	10	2,000	18	900	4,570	500	1,900	4,150	420	13
12	1,050	361	71,480	1	156	158	11,490	16,035	.....	18,375	16,035	.....	14
415	53,653	402	48,677	325	41,818	907	52,353	278,028	.....	125,919	264,065	13,963	15
1	35	6	728	.....	.....	11	351	684	10	289	534	150	16
32	8,068	48	8,786	1	240	85	5,980	36,185	1,512	16,932	33,575	2,610	17
1,038	288,282	3,334	684,451	1,750	532,826	2,367	226,478	3,812,831	252,918	819,490	3,678,951	133,880	18
1,185	223,848	103	16,290	1,417	251,105	3,445	158,392	1,499,538	465	373,218	1,423,208	76,330	19
50	7,538	142	14,573	4	500	179	6,460	15,268	.....	11,770	14,303	965	20
177	38,265	808	413,465	49	9,228	408	17,534	116,135	10,506	80,605	111,975	4,160	21
197	48,753	289	66,882	83	33,083	648	44,930	135,635	20	68,800	129,035	6,600	22
.....	.....	9	480	.....	.....	8	14	3,450	.....	597	3,350	100	23
191	45,981	492	143,655	159	32,879	381	16,553	148,847	40,337	71,010	147,982	865	24
63	12,619	62	10,522	21	4,115	196	13,723	31,777	300	33,141	29,571	2,206	25
39	10,872	51	10,555	1	540	203	8,560	28,335	10,327	7,854	28,185	150	26
86	35,077	80	25,040	186	45,766	683	45,781	82,237	19,240	86,070	71,683	10,554	27
118	31,757	1,144	342,882	28	3,139	520	38,567	284,635	10,050	311,844	276,805	7,830	28
5	2,300	.....	.....	.....	.....	12	808	3,930	800	600	3,930	.....	29
29	3,451	151	36,560	.....	.....	281	22,460	21,507	.....	11,649	21,077	430	30
43	5,900	146	24,685	30	4,560	295	9,722	26,624	520	20,761	26,564	60	31
160	67,423	239	81,530	71	23,210	617	34,027	98,802	17,333	89,455	98,431	371	32
60	6,650	139	17,037	6	1,870	219	7,842	31,062	1,050	16,720	29,612	1,450	33
43	6,570	178	9,444	7	811	168	6,113	20,516	300	12,483	20,016	500	34
213	146,987	127	39,364	919	367,780	2,087	223,278	400,893	41,660	402,771	308,913	91,980	35
87	20,028	72	2,900	61	8,855	485	30,438	54,786	13,260	22,770	53,830	956	36
1,670	289,251	441	55,913	2,226	392,727	5,556	344,929	3,436,847	24,241	899,816	3,264,457	172,390	37
4	1,000	39	3,120	.....	.....	30	2,450	7,500	1,500	5,000	7,500	.....	38

TABLE 5.—DETAILED STATEMENT, TIMBER PRODUCTS NOT MANUFACTURED BY

	STATES AND TERRITORIES.	PRODUCTS.								
		Total value.	Basket stock.		Cooperage stock.		Excelsior stock.		Fence posts.	
			Cords.	Value.	Cords.	Value.	Cords.	Value.	Number.	Value.
1	The United States	$34,289,807	1,871	$14,497	31,784	$222,990	6,576	$25,880	3,822,623	$239,895
2	Alabama	371,975							76,000	8,220
3	Arkansas	143,035			2,084	15,763			7,000	200
4	California	340,691			850	4,175			414,400	44,382
5	Colorado	191,559							30,000	2,500
6	Connecticut	116,808	550	4,500					24,200	2,223
7	Florida	90,572							75	7
8	Georgia	239,100								
9	Idaho	201,800								
10	Illinois	44,215			160	980			2,500	250
11	Indiana	313,730			9,345	51,225	5,500	22,000	600	18
12	Iowa	227,237							15,000	1,350
13	Kentucky	35,346			1,250	23,700				
14	Louisiana	145,450								
15	Maine	942,216			600	3,000			8,700	960
16	Maryland	5,190							3,200	260
17	Massachusetts	101,609	32	406	100	1,000			18,300	2,590
18	Michigan	9,637,663			318	535			1,144,719	69,481
19	Minnesota	4,062,122							700,000	50,000
20	Mississippi	99,613			2,300	24,580			120	12
21	Missouri	872,081	100	1,000	1,090	7,365			846,330	23,377
22	New Hampshire	624,383	140	1,250			76	380	32,150	1,866
23	New Jersey	10,242							5,000	500
24	New York	702,736			750	6,550	1,000	3,500	35,850	2,730
25	North Carolina	131,055	75	750					3,000	200
26	Ohio	118,113			205	1,460			5,000	480
27	Oregon	535,842							2,000	120
28	Pennsylvania	1,315,136	60	600	1	5			20,925	4,106
29	Rhode Island	20,135	300	2,500					1,200	185
30	South Carolina	164,167			500	2,000			4,500	450
31	Tennessee	131,691	356	968	1,267	20,050			50,340	5,034
32	Texas	614,300			400	4,400			2,000	200
33	Vermont	114,857							27,000	1,400
34	Virginia	88,775			1,097	8,905				
35	Washington	2,382,674								
36	West Virginia	275,725			1,036	19,600				
37	Wisconsin	8,850,705	258	2,523	7,531	27,697			342,514	16,794
38	All other states and territories	27,250								

MILLING ESTABLISHMENTS, BY STATES AND TERRITORIES: 1890—Continued.

PRODUCTS—continued.												
Fence rails.		Hop poles.		Hoop poles and hoops.		Hewed timber.		Hard wood and other logs for export.		All logs for domestic manufacture.		
Number.	Value.	Number.	Value.	Number.	Value.	Number of 1,000 feet, board measure.	Value.	Number of 1,000 feet, scaled measure.	Value.	Number of 1,000 feet, scaled measure.	Value.	
76,500	$5,280	3,012,900	$23,558	49,112,060	$368,425	55,592	$575,395	152,770	$1,001,328	2,703,289	$19,408,708	1
.....	.....	.....	.....	.....	.....	28,123	159,835	2,575	22,000	5,820	21,280	2
5,000	50	.....	.....	.....	.....	1,620	30,000	300	3,750	2,526	17,078	3
.....	.....	160,000	1,200	.....	.....	2,435	14,200	.....	.....	650	6,650	4
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
.....	.....	.....	.....	.....	.....	7	161	460	4,775	2,850	31,575	6
.....	.....	.....	.....	.....	.....	.....	.....	518	4,300	1,014	6,900	7
.....	.....	.....	.....	.....	.....	522	5,100	100	1,000	6,985	44,800	8
.....	.....	.....	.....	.....	.....	.....	.....	12,000	60,000	.....	.....	9
3,000	100	.....	.....	.....	.....	.....	.....	600	3,600	600	6,450	10
.....	.....	.....	.....	85,000	1,700	.....	.....	853	9,110	2,045	18,895	11
.....	.....	.....	.....	20,220,210	202,037	.....	.....	.....	.....	.....	.....	12
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13
.....	.....	.....	.....	.....	.....	.....	.....	6,150	34,200	1,500	7,500	14
2,100	162	.....	.....	2,053,000	10,210	190	5,700	29,030	168,492	75,411	617,020	15
2,000	60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
3,500	220	.....	.....	20,000	600	21	341	1,470	7,850	5,000	35,460	17
8,000	225	2,469,000	19,521	3,380,000	18,010	9,539	233,928	9,595	96,512	481,390	4,838,129	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	242,671	1,903,865	19
1,500	18	.....	.....	.....	.....	1,383	11,906	505	3,030	4,410	29,433	20
4,700	418	3,900	37	15,629,850	114,309	200	1,420	110	1,200	6,042	44,760	21
3,000	300	.....	.....	80,000	280	75	250	12,573	95,886	70,302	463,155	22
.....	.....	.....	.....	152,000	2,100	.....	.....	.....	.....	400	5,000	23
1,000	60	20,000	300	325,000	2,387	4,060	51,050	4,737	24,708	55,464	396,599	24
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30,261	111,282	25
14,800	1,582	.....	.....	102,000	280	.....	.....	91	2,225	450	2,700	26
.....	.....	10,000	300	.....	.....	.....	.....	11,400	60,750	71,570	389,520	27
25,400	1,840	.....	.....	.....	.....	3,548	33,484	2,363	26,140	127,718	643,336	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
.....	.....	.....	.....	.....	.....	3,309	24,220	100	450	3,305	16,400	30
.....	.....	.....	.....	4,700,000	6,600	.....	.....	150	1,300	10,720	48,943	31
2,000	200	.....	.....	.....	.....	20	300	1,120	8,100	71,754	391,596	32
.....	.....	.....	.....	.....	.....	.....	.....	720	6,850	11,785	71,515	33
.....	.....	.....	.....	1,275,000	6,037	430	3,150	630	6,500	2,360	12,940	34
.....	.....	.....	.....	.....	.....	.....	.....	31,300	157,700	390,656	2,164,630	35
300	41	.....	.....	.....	.....	.....	.....	20	200	20,233	154,762	36
200	4	350,000	2,200	1,090,000	3,875	.....	.....	23,300	190,700	997,375	6,966,475	37
.....	.....	.....	.....	.....	.....	50	350	.....	.....	22	120	38

TABLE 5.—DETAILED STATEMENT, TIMBER PRODUCTS NOT MANUFACTURED BY

	STATES AND TERRITORIES.	PRODUCTS—continued.											
		Handle stock.		Hemlock bark.		Oak bark.		Piles.		Paving stock.		Pulp stock.	
		Cords.	Value.	Cords.	Value.	Cords.	Value.	Number.	Value.	Cords.	Value.	Cords.	Value.
1	The United States	5,070	$40,908	70,871	$289,796	14,495	$71,938	161,711	$184,838	79,881	$202,646	31,640	$139,808
2	Alabama					300	1,800	500	500				
3	Arkansas	700	4,850					6,540	4,160				
4	California			400	6,000	830	6,820	7,700	9,600				
5	Colorado												
6	Connecticut	39	370					2,056	4,026				
7	Florida							900	675				
8	Georgia												
9	Idaho							2,000	2,000				
10	Illinois							725	575				
11	Indiana	1,750	11,750					12,750	17,662				
12	Iowa							1,600	4,000				
13	Kentucky												
14	Louisiana												
15	Maine			1,856	10,414	20	100	1,475	2,675			14,727	64,919
16	Maryland					51	410						
17	Massachusetts			200	1,500			1,400	2,300				
18	Michigan			5,854	15,960			4,606	10,650	58,781	116,737	1,553	5,749
19	Minnesota							13,000	26,000	18,000	65,000		
20	Mississippi							2,400	3,150				
21	Missouri	175	2,702	120	875	50	500	64,951	28,717	40	200		
22	New Hampshire	45	1,250	1,027	5,812	20	140	1,116	3,568			825	4,025
23	New Jersey												
24	New York	231	981	5,500	12,652					100	500	900	4,220
25	North Carolina												
26	Ohio	730	13,375			796	4,420						
27	Oregon			10	100			404	1,480			200	600
28	Pennsylvania	1,000	3,130	53,624	226,255	973	4,912	800	1,490				
29	Rhode Island							200	500				
30	South Carolina							5,710	4,060				
31	Tennessee	400	2,500	690	3,750	920	7,540	1,000	2,100				
32	Texas							830	900	2,000	16,000		
33	Vermont			445	2,205							1,100	5,500
34	Virginia					1,640	7,955	4,250	4,200	40	200		
35	Washington							12,408	30,240				
36	West Virginia					1,395	7,352					11,860	53,370
37	Wisconsin			1,145	4,273	7,500	30,000	2,390	11,610	920	4,009	475	1,425
38	All other states and territories							10,000	8,000				

MILLING ESTABLISHMENTS, BY STATES AND TERRITORIES: 1890—Continued.

PRODUCTS—continued.																
Railway ties.		Rived or shaved shingles.		Masts and spars.		Ship knees.		Charcoal.		Telegraph poles.		Wheel stock.		Amount received for contract labor.	Value of all other products.	
Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Bushels.	Value.	Number.	Value.	Cords.	Value.			
8,817,245	$2,319,403	38,250	$107,012	899	$13,330	2,925	$27,200	19,180,172	$1,339,524	134,468	$272,453	868	$11,300	$2,472,792	$4,849,934	1
113,000	30,300							1,303,200	77,240	50,950	47,700				3,100	2
150,700	34,284	13,050	32,750							500	150					3
256,000	37,900	3,455	11,630			150	750								197,384	4
267,000	79,600							2,325,350	86,950	4,000	2,500				20,000	5
79,700	31,280					225	450	20,000	1,400	400	1,500				34,548	6
278,200	69,829														8,861	7
604,000	162,000	900	1,900					325,000	19,500						4,800	8
540,000	135,000							33,000	3,300	1,000	1,500					9
7,000	2,260							320,000	30,000							10
474,385	154,936	1,360	2,677					110,500	12,080			180	900		10,747	11
10,000	4,000														15,850	12
20,700	5,196							58,000	4,450						2,000	13
325,000	103,750															14
7,100	1,139	1,000	2,000	62	620	2,400	25,000			200	100				29,705	15
2,000	750														3,710	16
39,575	13,257							85,800	9,654	3,400	5,900	1	30		20,501	17
754,163	139,072	1,804	6,184	12	560			8,573,704	646,871	101,480	187,639			960,711	2,271,189	18
275,000	86,000													508,655	1,332,602	19
1,000	200	3,855	14,290												12,994	20
2,101,164	583,898	2,012	3,980					500,000	40,000						17,323	21
37,563	14,114	440	1,130	10	600	150	1,000	58,000	5,050	400	850	340	3,750		19,121	22
1,652	800														1,842	23
58,900	25,295	1,140	2,350	85	1,700			2,132,518	128,085	7,053	13,616				25,453	24
13,050	3,123	2,440	13,300												2,400	25
224,450	35,500	302	754					532,200	43,070			270	5,600		6,658	26
145,717	43,507	20	40							100	200				39,225	27
74,905	28,295			200	600			1,268,000	118,750	655	501	22	220		221,373	28
10,000	5,000									230	550				11,400	29
388,200	111,662	870	4,070							200	200				655	30
93,200	27,456	2,070	4,550							500	500				400	31
447,725	130,573	50	175					700,000	54,350	300	600				6,915	32
1,825	400	1,025	2,087					10,000	850						24,050	33
92,000	26,505	15	49							2,000	2,550	55	800		8,984	34
				530	9,250										20,854	35
22,100	5,510	2,165	3,490											30,000	1,420	36
900,271	186,982	277	500					464,000	42,195	11,100	5,807			883,426	470,210	37
								360,000	15,120						3,660	38

TABLE 6.—AVERAGE NUMBER OF EMPLOYÉS, AVERAGE TERM OF EMPLOYMENT, AND AVERAGE MONTHLY EARNINGS, TIMBER PRODUCTS NOT MANUFACTURED BY MILLING ESTABLISHMENTS, BY STATES AND TERRITORIES: 1890. (*a*)

[Piecework ers are not included in this table.]

STATES AND TERRITORIES.	Number of establishments reporting.	OFFICERS OR FIRM MEMBERS ACTIVELY ENGAGED IN THE BUSINESS OR IN SUPERVISION. Males above 16 years.			OPERATIVES, SKILLED AND UNSKILLED. Males above 16 years.		
		Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.
Alabama	35	21	7.67	$80.27	478	7.15	$26.07
Arkansas	16	10	7.70	62.94	244	7.81	24.91
California	37	23	7.78	54.75	315	9.42	44.48
Colorado	11	6	7.00	116.19	306	8.97	36.76
Connecticut	19	5	7.80	62.82	86	10.85	33.14
Florida	13	2	7.00	46.43	194	7.22	22.28
Georgia	15	5	10.20	52.25	125	10.56	27.85
Idaho	3	1	11.00	103.64	33	10.39	54.08
Illinois	6	3	2.67	125.00	52	4.40	43.84
Indiana	30	11	7.64	58.39	353	10.58	30.95
Iowa	6	3	12.00	38.89	45	9.44	30.13
Kentucky	4	5	9.60	30.42	64	9.34	25.68
Louisiana	5	6	4.83	108.62	47	4.40	33.55
Maine	63	33	6.09	68.49	2,730	5.57	23.08
Maryland	5	5	5.80	26.90	12	4.08	22.91
Massachusetts	24	8	5.88	80.04	105	6.91	31.01
Michigan	206	133	7.10	112.15	6,797	8.40	33.75
Minnesota	75	99	5.96	115.75	5,789	5.55	36.65
Mississippi	28	14	8.43	47.92	161	7.22	22.06
Missouri	82	28	8.18	43.19	675	8.68	26.18
New Hampshire	30	8	5.63	36.20	778	8.50	32.73
New Jersey	4	1	12.00	41.67	12	10.00	35.80
New York	70	27	7.15	52.17	865	6.59	36.32
North Carolina	25	8	9.63	35.45	200	9.12	19.57
Ohio	34	9	7.00	56.48	138	8.72	24.87
Oregon	50	19	5.47	84.47	634	5.30	55.33
Pennsylvania	95	36	6.67	61.43	698	8.43	31.52
Rhode Island	3	.....	.....	.....	17	9.35	43.71
South Carolina	24	7	8.14	31.23	191	4.91	22.69
Tennessee	33	11	6.18	31.91	120	5.61	27.44
Texas	30	26	9.31	73.89	730	10.05	36.73
Vermont	43	10	7.20	37.36	102	3.82	32.26
Virginia	25	11	7.00	42.40	178	7.01	23.03
Washington	152	96	7.03	88.71	2,161	8.13	56.40
West Virginia	26	21	7.52	47.59	385	7.98	25.59
Wisconsin	266	194	4.47	128.06	9,422	4.80	37.00
All other states and territories (*b*)	4	2	12.00	50.00	17	10.94	40.86

a The average number of months employed and average monthly earnings are computed from individual returns. The average number of employés reported by each establishment is multiplied by the number of months embraced by the term of operation. Aggregating such results of individual returns the number of months required for 1 employé to perform the labor is obtained. This number divided by the number of employés gives the true average number of months employed, and divided into the total wages, the true average monthly earnings.

b Includes states and territories having less than 3 establishments, in order that the operations of individual establishments may not be disclosed. These establishments are distributed as follows: Delaware, 1; Montana, 1; Utah, 2.

TABLE 6.—AVERAGE NUMBER OF EMPLOYÉS, AVERAGE TERM OF EMPLOYMENT, AND AVERAGE MONTHLY EARNINGS, TIMBER PRODUCTS NOT MANUFACTURED BY MILLING ESTABLISHMENTS, ETC.—Continued.

STATES AND TERRITORIES.	Number of establishments reporting.	OPERATIVES, SKILLED AND UNSKILLED—continued.					
		Females above 15 years.			Children.		
		Average number.	Average number of months employed.	Average monthly earnings per employé.	Average number.	Average number of months employed.	Average monthly earnings per employé.
Alabama	35	1	3.00	$8.33			
Arkansas	16						
California	37	8	8.00	24.86			
Colorado	11	1	9.00	33.33			
Connecticut	19	1	12.00	12.50			
Florida	13	3	11.00	10.64			
Georgia	15						
Idaho	3						
Illinois	6						
Indiana	30						
Iowa	6						
Kentucky	4						
Louisiana	5						
Maine	63	2	2.00	15.00			
Maryland	5						
Massachusetts	24						
Michigan	206	25	5.72	32.78	3	4.33	$21.54
Minnesota	75						
Mississippi	28						
Missouri	82	2	2.75	16.00	1	1.50	13.33
New Hampshire	39						
New Jersey	4						
New York	70	7	7.20	26.43			
North Carolina	25	3	7.33	6.23			
Ohio	34						
Oregon	50	24	5.67	37.94			
Pennsylvania	95	11	8.73	12.94	1	12.00	8.83
Rhode Island	3						
South Carolina	24						
Tennessee	33						
Texas	30	4	10.00	21.50			
Vermont	43						
Virginia	25	1	12.00	15.00			
Washington	152	43	7.33	36.39	5	9.60	35.63
West Virginia	26						
Wisconsin	266	65	5.25	21.30	1	4.00	18.75
All other states and territories	4						

TABLE 7.—AVERAGE NUMBER OF EMPLOYÉS AT THE DIFFERENT MONTHLY RATES OF PAY, TIMBER

[Pieceworkers are not

	STATES AND TERRITORIES.	Number of establishments reporting.	MONTHLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS AND FIRM MEMBERS, BUT NOT THOSE EMPLOYED ON PIECEWORK. (a)											
			Males above 16 years.											
			Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $18.	$18 and over but under $20.	$20 and over but under $25.	$25 and over but under $30.	$30 and over but under $35.	$35 and over but under $40.	$40 and over but under $50.	$50 and over.
1	The United States	1,606	36,226	77	89	583	1,374	509	4,084	7,371	5,498	5,334	5,986	5,321
2	Alabama	35	499	15	9	26	16	21	63	165	64	49	33	38
3	Arkansas	16	254				19	19	85	83	25	3	3	17
4	California	37	338			13	1		7	37	15	17	97	151
5	Colorado	11	312						33	34	117		92	36
6	Connecticut	19	91		1		5			6	27	16	31	5
7	Florida	13	196	47	3	16	21	1	2	84	5	2	4	1
8	Georgia	15	130	2		7	1	9	25	48	21	1		16
9	Idaho	3	34										21	13
10	Illinois	6	55				12	3		10	13	4	1	12
11	Indiana	30	364				8	7	12	199	15	66	35	22
12	Iowa	6	48			3			10	1	32		2	
13	Kentucky	4	69		2			10	9	38	9		1	
14	Louisiana	5	53				1		14	8	15		6	9
15	Maine	63	2,763	2	4	5	892	133	833	395	321	126	29	23
16	Maryland	5	17		1			10	1		1		4	
17	Massachusetts	24	113				10		36	19	5	14	18	11
18	Michigan	206	6,930	1	4	14	51	94	1,276	1,092	1,505	1,071	819	403
19	Minnesota	75	5,888			301	3	13	288	1,806	816	557	1,212	892
20	Mississippi	28	175	1		11	45	11	36	35	8	6	10	12
21	Missouri	82	703	3	24	60	74	45	77	200	111	26	26	57
22	New Hampshire	39	786					13	137	116	93	210	161	56
23	New Jersey	4	13							4	6		3	
24	New York	70	802			2	5	16	25	285	151	129	135	144
25	North Carolina	25	208	2	8	27	57	30	44	34		1	1	4
26	Ohio	34	147		26		15		9	26	28	20	17	6
27	Oregon	50	653							10	12	47	116	468
28	Pennsylvania	95	734		2		20	5	130	179	151	123	84	40
29	Rhode Island	3	17								1	3	8	5
30	South Carolina	24	198		3	25	43	21	35	56	7	4	1	3
31	Tennessee	33	131					2	36	45	32	7	9	
32	Texas	30	756		1	2	15	2	14	88	205	146	121	162
33	Vermont	43	172			2	7	8	7	32	66	35	2	13
34	Virginia	25	189	4	1	11	16	11	68	40	14	2	15	7
35	Washington	152	2,257						1	8	77	121	550	1,500
36	West Virginia	26	406			52	2	21	56	101	100	32	20	22
37	Wisconsin	266	9,616			6	25	4	715	2,083	1,428	1,892	2,200	1,164
38	All other states and territories (b)	4	19							4	2	4		9

a In comparing the table of monthly rates of wages and number of employés at each rate with the average monthly earnings presented in Table 6, it must be remembered that it is not practicable to obtain true average monthly earnings from the table of monthly rates, because the term of employment varies for employés reported at the respective rates.

PRODUCTS NOT MANUFACTURED BY MILLING ESTABLISHMENTS, BY STATES AND TERRITORIES: 1890.

included in this table.]

MONTHLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS AND FIRM MEMBERS, BUT NOT THOSE EMPLOYED ON PIECEWORK—continued.																	
Females above 15 years.												Children.					
Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $18.	$18 and over but under $20.	$20 and over but under $25.	$25 and over but under $30.	$30 and over but under $35.	$35 and over but under $40.	$40 and over but under $50.	$50 and over.	Total number.	Under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over.	
201	14	6	8	13	8	31	65	18	8	14	16	11	1	.....	2	8	1
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
8	.....	.....	.....	1	2	3	1	.....	.....	1	.....	.....	.....	.....	.....	.....	4
1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	5
1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6
3	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
2	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	17
25	.....	1	.....	2	1	8	7	2	.....	2	2	3	.....	.....	.....	3	18
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
2	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	1	.....	21
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	22
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
7	.....	.....	.....	.....	1	.....	2	4	.....	.....	.....	.....	.....	.....	.....	.....	24
3	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
24	.....	.....	1	.....	.....	2	5	4	3	5	4	.....	.....	.....	.....	.....	27
11	4	.....	2	3	.....	2	.....	.....	.....	.....	.....	1	1	.....	.....	.....	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31
4	.....	1	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	32
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33
1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
43	.....	.....	.....	.....	.....	8	7	7	5	6	10	5	.....	.....	1	4	35
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36
65	5	4	1	4	4	8	39	.....	.....	.....	.....	1	.....	.....	.....	1	37
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	38

b Includes states and territories having less than 3 establishments, in order that the operations of individual establishments may not be disclosed. These establishments are distributed as follows: Delaware, 1; Montana, 1; Utah, 2.

TABLE 8.—DETAILED STATEMENT, TAR

	STATES.	Number of establishments reporting.	CAPITAL.								
			Value of hired property.	Direct investment.							
				Aggregate.	Timbered land or standing timber.	Plant.					
						Total.	Tools, implements, and live stock.	Logging, railways and equipment.	River improvements.	Vessels.	All other items of investment in plant.
1	The United States	670	$26,500	$4,062,375	$1,670,378	$1,117,265	3911,685	$2,550	$100	$5,400	$197,530
2	Florida	15	.....	182,992	102,842	35,175	29,475	.....	.....	.....	5,700
3	Georgia	228	.....	2,242,592	903,283	666,114	547,039	500	.....	3,600	114,975
4	Mississippi	24	26,500	173,698	87,050	39,868	29,018	250	.....	.....	10,600
5	North Carolina	194	.....	785,055	269,341	195,265	158,630	1,800	.....	1,700	33,135
6	South Carolina	201	.....	605,873	270,552	160,568	137,248	.....	100	100	23,120
7	All other states (a)	8	.....	72,165	37,310	20,275	10,275	.....	.....	.....	10,000

	STATES.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.											
		Aggregates.		Officers or firm members.		Coopers, stillers, and other skilled workmen, and foremen.		Chippers.		Dippers.		Teamsters.	
		Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.
1	The United States	15,315	$2,933,491	49	$26,944	2,889	$783,833	7,463	$1,323,611	2,578	$419,557	1,392	$268,988
2	Florida	484	93,269	.....	.....	96	28,684	252	42,779	93	13,895	36	7,315
3	Georgia	9,911	2,012,396	22	14,210	1,707	502,217	5,191	974,002	1,952	328,207	707	150,841
4	Mississippi	645	117,626	25	11,184	113	29,645	173	31,393	77	12,073	66	15,354
5	North Carolina	1,747	273,688	1	50	429	86,250	587	83,929	178	27,478	292	43,293
6	South Carolina	2,243	378,768	.....	.....	498	121,233	1,125	167,478	213	29,384	275	48,130
7	All other states	285	57,744	1	1,500	46	15,804	135	24,030	65	8,520	16	4,115

	STATES.	MONTHLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS AND FIRM MEMBERS, BUT NOT THOSE EMPLOYED ON PIECEWORK—continued.											
		Males above 16 years—Continued.										Females above 15 years.	
		$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $18.	$18 and over but under $20.	$20 and over but under $25.	$25 and over but under $30.	$30 and over but under $35.	$35 and over but under $40.	$40 and over but under $50.	$50 and over.	Total number.	Under $10.
1	The United States	478	1,216	4,528	2,396	3,950	799	333	173	227	262	16	11
2	Florida	13	51	132	92	97	44	27	19	.....	2	.....	.....
3	Georgia	341	573	3,032	1,648	2,946	368	159	88	155	200	.....	.....
4	Mississippi	.....	12	61	69	79	109	45	27	12	24	.....	.....
5	North Carolina	31	252	492	248	303	143	28	14	4	7	13	11
6	South Carolina	93	283	747	335	365	109	63	20	48	23	3	.....
7	All other states	.....	45	64	4	70	26	11	5	8	6	.....	.....

	STATES.	MATERIALS USED—continued.								
		Wood.		Barrels purchased.		Iron.		Staves and heading.		Cost of all other materials.
		Cords.	Cost.	Number.	Cost.	Pounds.	Cost.	Pieces.	Cost.	
1	The United States	76,910	$60,558	1,243,117	$640,801	621,610	$16,558	3,411,440	$29,952	$413,734
2	Florida	1,645	1,313	30,238	16,681	17,000	880	144,000	1,000	8,785
3	Georgia	43,956	36,098	568,820	334,624	383,370	11,699	2,423,500	21,070	252,137
4	Mississippi	2,994	1,543	28,264	14,614	32,100	1,402	100,640	1,282	1,785
5	North Carolina	12,215	7,860	274,093	109,712	11,240	280	52,000	210	73,185
6	South Carolina	15,445	13,229	320,203	156,295	171,400	1,377	609,800	5,665	64,941
7	All other states	655	515	21,499	8,875	6,500	920	81,500	725	12,901

a Includes states grouped, in order that the operations of individual establishments may not be disclosed. These establishments are distributed as follows: Alabama, 7; Missouri, 1.

AND TURPENTINE, BY STATES: 1890.

CAPITAL—continued.			MISCELLANEOUS EXPENSES.							
Direct investment—Continued.										
Live assets.										
Total.	Value of product on hand.	Cash, bills and accounts receivable, and all sundries not elsewhere reported.	Total.	Rent paid for tenancy.	Taxes.	Insurance.	Repairs, ordinary, of buildings and machinery.	Interest paid on cash used in the business.	All sundries not elsewhere reported.	
$1,274,732	$663,271	$611,461	$178,662	$1,063	$21,918	$5,591	$60,337	$50,567	$39,186	1
44,975	18,375	26,600	5,520	.....	1,083	42	1,117	2,728	550	2
673,195	369,410	303,785	108,003	.....	11,177	3,660	37,555	34,343	21,268	3
46,780	33,220	13,560	9,754	1,063	1,576	490	1,610	2,832	2,183	4
320,449	150,354	170,095	20,038	.....	3,541	801	8,289	2,918	5,089	5
174,753	80,232	94,521	32,056	.....	3,678	421	10,566	7,950	9,441	6
14,580	11,680	2,900	3,291	.....	863	177	1,200	396	655	7

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.												MONTHLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS AND FIRM MEMBERS, BUT NOT THOSE EMPLOYED ON PIECEWORK.		
Piecework.						All other employés.								
Males above 16 years.		Females above 15 years.		Children.		Males above 16 years.		Females above 15 years.		Children.		Males above 16 years.		
Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Total number.	Under $10.	
543	$72,761	125	$9,419	93	$4,761	166	$22,642	16	$925	1	$50	14,537	175	1
6	500	1	96	.....	.....	.....	.....	.....	.....	.....	.....	477	.....	2
270	37,924	40	3,085	16	700	6	310	.....	.....	.....	.....	9,585	75	3
86	11,184	51	3,485	54	3,308	.....	.....	.....	.....	.....	.....	454	16	4
55	7,048	18	1,290	15	603	158	22,182	13	675	1	50	1,645	33	5
104	11,430	15	563	8	150	2	150	3	250	.....	.....	2,113	27	6
22	3,775	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	263	24	7

MONTHLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS AND FIRM MEMBERS, BUT NOT THOSE EMPLOYED ON PIECEWORK—continued.			ANIMALS IN USE.		MATERIALS USED.										
Females above 15 years—Cont'd.		Children.				Crude turpentine purchased.		Scrape turpentine purchased.		Glue.		Cotton batting.			
$10 and over but under $12.	$12 and over but under $15.	Under $10.	Average number.	Cost of keep.	Total cost.	Barrels.	Cost.	Barrels.	Cost.	Pounds.	Cost.	Pounds.	Cost.		
3	2	1	4,800	$368,253	$2,506,440	655,642	$1,303,302	32,692	$32,259	64,266	$6,389	19,014	$2,887	1	
.....	.....	.....	123	9,615	36,250	3,400	7,000	.....	.....	3,000	315	1,640	276	2	
.....	.....	.....	2,755	215,710	785,976	51,278	119,105	3,892	3,949	49,696	4,885	15,965	2,409	3	
.....	.....	.....	211	15,885	87,017	33,880	66,230	.....	.....	1,100	136	120	25	4	
.....	2	1	833	58,320	959,982	386,960	754,688	13,800	13,695	1,950	337	100	15	5	
3	.....	.....	808	64,473	612,910	180,004	356,179	14,900	14,550	7,520	617	280	57	6	
.....	.....	.....	70	4,250	24,305	60	100	100	65	1,000	99	900	105	7	

PRODUCTS.														
Total value.	Turpentine.						Resin.		Tar.		Barrels made (not filled or included in the value of other products).		Value of all other products.	
	Scrape.		Crude.		Spirits of.									
	Barrels.	Value.	Barrels.	Value.	Barrels.	Value.	Barrels.	Value.	Barrels.	Value.	Number.	Value.		
$8,077,379	8,482	$9,878	30,509	$62,972	346,524	$5,459,115	1,429,154	$2,413,757	992	$1,711	32,310	$13,890	$116,050	1
191,859	.....	.....	.....	.....	7,598	126,929	31,000	64,780	.....	.....	.....	.....	150	2
4,242,255	1,000	1,500	3,700	7,400	189,558	2,732,042	670,588	1,474,353	.....	.....	7,050	2,515	24,445	3
282,066	7,132	2,078	3,675	5,070	12,078	181,142	60,150	89,887	332	664	8,360	1,575	1,650	4
1,705,833	.....	.....	.....	.....	72,888	1,293,086	365,233	377,310	600	847	2,000	300	34,290	5
1,524,100	350	6,300	23,134	50,502	60,873	1,030,421	283,116	383,167	.....	.....	14,900	9,500	35,210	6
131,266	.....	.....	.....	.....	3,529	80,495	19,067	24,260	60	200	.....	.....	20,311	7

NEWSPAPERS AND PERIODICALS.

NEWSPAPERS AND PERIODICALS.

This report presents the statistics concerning the printing and publishing of newspapers and periodicals for the census year ending May 31, 1890, and includes the returns of establishments whose product amounted to $500 or more during the census year, except establishments engaged in printing publications for gratuitous distribution, such as advertising sheets, theater programmes, and almanacs.

At the census of 1880 the statistics concerning newspapers and periodicals formed the subject of a separate report under the title "The newspaper and periodical press", and only included data pertaining exclusively to the printing and publishing of newspapers and periodicals, the statistics relating to book and job printing done by such establishments being excluded. The statistics for newspapers and periodicals were not shown separately in the general report on manufactures for the Tenth Census, but the data which appeared under the class of "Printing and publishing" included in many instances reports from establishments that were also included in the report on "The newspaper and periodical press". The statistics for 1890 for "Printing and publishing, book and job", and other classes of printing, shown in detail in the general report on manufactures, do not include any establishments classed as "Newspapers and periodicals". The totals for "Newspapers and periodicals", however, include the entire operations of each establishment.

The questions contained in the schedules of inquiry concerning printing and publishing and newspapers and periodicals in 1880 were not uniform. Owing to changes in the form of the inquiry used at the census of 1890, as compared with that of 1880, and to the fact that in some instances establishments included as newspapers and periodicals in 1880 were also included under "Printing and publishing", the totals for the several branches of the printing industry reported at the two censuses should not be used to compute the percentages of increase or decrease during the decade. The following comparative summary, however, presents the totals for the industry as reported in the general statistics on manufactures at the censuses of 1880 and 1890. This summary includes for 1880 the classification "Printing and publishing", and for 1890 the classifications "Printing and publishing, book and job"; "Printing and publishing, music"; "Printing and publishing, newspapers and periodicals", and "Printing, tip".

COMPARATIVE SUMMARY, PRINTING AND PUBLISHING: 1880 AND 1890.

[The figures for 1880 do not include newspapers and periodical establishments which did no printing.]

ITEMS.	1880	1890
Number of establishments reporting	3,467	16,566
Capital	$62,983,704	$195,387,445
Miscellaneous expenses	(a)	$46,971,768
Average number of employés (aggregate)	58,478	165,227
Total wages	$30,531,657	$105,083,675
Officers, firm members, and clerks:		
Average number	(b)	28,391
Total wages	(b)	$26,272,756
All other employés:		
Average number	(b)	136,836
Total wages	(b)	$78,810,319
Cost of materials used	$32,460,395	$68,858,915
Value of products	$90,789,341	$275,452,515

a Not reported. b Not reported separately.

The following statement shows the statistics, as reported at the Eleventh Census, for each of the several branches of the printing and publishing industry that form the total given in the preceding statement:

TOTALS FOR DIFFERENT BRANCHES OF THE PRINTING AND PUBLISHING INDUSTRY: 1890.

BRANCHES.	Number of establishments reporting.	Capital.	Miscellaneous expenses.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.						Cost of materials used.	Value of product.
				Aggregates.		Officers, firm members, and clerks.		All other employés.			
				Average number.	Total wages.	Number.	Wages.	Number.	Wages.		
Total	16,566	$195,387,445	$46,971,768	165,227	$105,083,075	28,391	$26,272,756	136,836	$78,810,319	$68,858,915	$275,452,515
Printing and publishing, book and job.	4,098	67,146,445	10,855,620	58,139	35,874,361	7,992	8,225,370	50,147	27,648,991	29,387,211	93,546,831
Printing and publishing, music.	79	1,816,205	362,117	701	448,582	239	224,799	462	223,783	401,415	1,683,339
Printing and publishing, newspapers and periodicals.	12,362	126,269,885	35,727,039	106,095	68,601,532	20,120	17,777,173	a85,975	a50,824,359	38,955,922	179,859,750
Printing, tip	27	154,910	26,992	292	158,600	40	45,414	252	113,186	114,967	308,601

a Includes editors, subeditors, and reporters.

Of the total value of products, $275,452,515, shown in the above statement for the printing and publishing industry, the product reported for establishments engaged in printing and publishing newspapers and periodicals forms 65.30 per cent, while the product shown for book and job printing as a distinct branch forms 33.96 per cent, "Printing and publishing, music", 0.61 per cent, and "Printing, tip", 0.13 per cent.

The following comparative summary presents the statistics relating only to the printing and publishing of newspapers and periodicals, as reported at the censuses of 1880 and 1890:

COMPARATIVE SUMMARY, NEWSPAPERS AND PERIODICALS: 1880 AND 1890.

ITEMS.	1880	1890
Number of establishments reporting	(a)	12,362
Capital	b$53,000,000	$126,269,885
Miscellaneous expenses	(a)	$35,727,039
Average number of employés (aggregate)	71,615	106,095
Total wages	$28,559,336	$68,601,532
Officers, firm members, and clerks:		
Average number	(c)	20,120
Total wages	(c)	$17,777,173
All other employés:		
Average number	(c)	85,975
Total wages	(c)	$50,824,359
Total cost of materials used	(a)	$38,955,922
Pounds of paper used	189,145,048	552,876,161
Total value of newspaper products	$89,009,074	$143,586,448
Advertising	$39,136,306	$71,243,361
Subscriptions and sales	$40,872,768	$72,343,087
Book and job printing	(a)	$32,812,113
All other products	(a)	$3,461,189
Total value of all products in 1890	.....	$179,859,750
Number of publications (d)	10,132	14,901
Aggregate circulation per issue	31,779,686	69,138,934
Aggregate number of copies printed during the year	2,067,848,209	4,681,113,530

a Not reported.
b Estimated.
c Not reported separately.
d Does not include 1,182 publications in 1880 for which data concerning employés, wages, materials, product, and circulation were not reported, and does not include 2,715 publications in 1890 for which no reports were received.

As previously explained, the figures for 1880 do not include any data other than that which relates exclusively to newspapers and periodicals, while the figures for 1890 cover the entire printing and publishing business of each establishment reporting, it being impossible to make an accurate separation of all the items pertaining strictly to newspapers and periodicals as distinguished from the book and job printing business carried on by the same establishments. Items, however, such as number of publications, circulation, and amounts received from advertising, subscriptions, and sales, that relate exclusively to newspapers and periodicals reported at the two censuses, are comparable.

From an extended correspondence and a careful checking of newspaper directories, it appears there were 2,715 publications in existence during 1890 that failed to make reports to this office.

There were 17,616 newspapers and periodicals of all classes in existence during the census year 1890 as compared with 11,314 in 1880, an increase of 55.70 per cent.

The aggregate circulation per issue for all classes of newspapers and periodicals from which reports were received was 69,138,934 in 1890 as compared with 31,779,686 in 1880, an increase of 117.56 per cent, while the aggregate number of copies printed during the year has increased from 2,067,848,209 to 4,681,113,530, or 126.38 per cent. The quantity of paper consumed has increased from 189,145,048 pounds in 1880 to 552,876,161 pounds in 1890, or 192.30 per cent.

In 1880, $39,136,306 is reported as received for advertising as compared with $71,243,361 in 1890, or an increase of 82.04 per cent. The amount received for subscriptions and sales in 1880 was $49,872,768 as compared with $72,343,087 in 1890, or an increase of 45.06 per cent.

The amount received for subscriptions and sales appears as the principal source of revenue in both 1880 and 1890, although the amount received for advertising in 1890 exceeds the amount received for subscriptions and sales in a majority of the states. The receipts of newspaper establishments from sources such as book and pamphlet publications, job printing, bookbinding, blank-book making, engraving, and all other products were not included in 1880. These items aggregate $36,273,302 in 1890, or 20.17 per cent of the total product.

In the following comparative statement the number of newspapers and periodicals reported as in existence at the censuses of 1880 and 1890 are arranged according to period of issue and character of publication, the percentage of increase or decrease being shown for each class:

COMPARATIVE SUMMARY, NEWSPAPERS AND PERIODICALS, CLASSIFIED ACCORDING TO PERIODS OF ISSUE AND CHARACTER OF PUBLICATION: 1880 AND 1890.

PERIODS OF ISSUE AND CHARACTER OF PUBLICATION.	NUMBER OF PUBLICATIONS.		Percentage of increase.
	1880	1890	
Periods of issue	11,314	17,616	55.70
Daily	971	1,731	78.27
Weekly	8,633	12,721	47.35
Semiweekly	133	214	60.90
Triweekly	73	40	a45.21
Monthly	1,167	2,247	92.54
Quarterly	116	271	133.62
All other	221	392	77.38
Character of publication:			
News, politics, and family reading	8,863	13,147	48.34
Religious	553	1,182	113.74
Agriculture, horticulture, dairy, and stock raising	173	312	80.35
Commerce, finance, insurance, railroads, and trade	363	778	114.33
General literature, including magazines	189	387	104.76
Medicine and surgery	114	187	64.04
Law	45	51	13.33
Science and mechanics	68	123	80.88
Freemasonary, Odd Fellowship, and temperance	149	277	85.91
Education and history, including college and school periodicals	248	396	59.68
Society, art, music, and fashion	72	198	175.00
Miscellaneous (b)	477	578	21.17

a Decrease.

b For purposes of comparison, 1880 includes 217 children's publications and Sunday school papers, and 1890, 173 Sunday publications (not connected with daily newspapers).

From the above statement it appears that there has been an increase in the number of papers and periodicals published at each of the different periods of issue except triweekly, the number for this class having decreased from 73 to 40, or 45.21 per cent. At the census of 1880 the statistics relating to daily newspapers show 438 morning and 533 evening papers. The statistics of 1890 show 599 morning papers, or an increase of 36.76 per cent, and 1,132 evening papers, or an increase of 112.38 per cent.

The number of newspapers and periodicals reported under each of the different characters of publication has increased during the past decade. The greatest percentage of increase, 175 per cent, is shown for the class "Society, art, music, and fashion". The number of publications reported by the different periods of issue, also the number reported for each of the different subdivisions shown for the character of publication in each state and territory, as reported at the censuses of 1880 and 1890, is shown in Table 3.

The following comparative statement presents the number and circulation of newspapers and periodicals by different periods of issue, as reported for the censuses of 1850 to 1890, inclusive:

COMPARATIVE STATEMENT, NUMBER AND CIRCULATION OF NEWSPAPERS AND PERIODICALS, CLASSIFIED ACCORDING TO PERIODS OF ISSUE: 1850-1890.

YEARS.	ALL CLASSES.			DAILY.		WEEKLY.		SEMIWEEKLY.	
	Number.	Aggregate circulation per issue.	Aggregate copies issued during the year.	Number.	Aggregate circulation per issue.	Number.	Aggregate circulation per issue.	Number.	Aggregate circulation per issue.
1850	2,526	5,142,177	426,409,978	254	758,454	1,902	2,944,620	31	53,511
1860	4,051	13,663,409	927,951,548	387	1,478,435	3,173	7,581,930	79	175,165
1870	5,871	20,842,475	1,508,548,250	574	2,601,547	4,295	10,594,643	115	247,197
1880	a11,314	b31,779,686	2,667,848,209	971	3,566,395	8,633	16,266,830	133	264,910
1890	c17,616	69,138,934	4,681,113,530	1,731	8,387,188	12,721	28,954,515	214	561,743

YEARS.	TRIWEEKLY.		MONTHLY.		QUARTERLY.		ALL OTHER.	
	Number.	Aggregate circulation per issue.	Number.	Aggregate circulation per issue.	Number.	Aggregate circulation per issue.	Number.	Aggregate circulation per issue.
1850	115	75,712	100	740,651	19	25,875	105	543,345
1860	86	107,170	280	3,411,959	30	101,000	16	807,750
1870	107	155,105	622	5,650,843	49	211,670	109	1,381,470
1880	73	68,086	1,167	8,139,881	116	1,944,299	221	1,379,285
1890	40	50,067	2,247	19,624,038	271	8,124,500	392	3,436,883

a Includes 1,182 publications reporting no circulation.
b Includes 150,000 circulation for 5 weeklies, 1 semimonthly, 14 monthlies, and 12 quarterlies not reported separately.
c Includes 2,715 publications in existence from which returns were not received.

The total number of publications "All classes" has increased from 2,526 in 1850 to 17,616 in 1890. The number shown for each of the different periods of issue has increased steadily during each decade with the exception of triweekly; the number of triweekly publications shown for 1850 was 115, while for 1890 it was but 40.

The average circulation per issue for all classes of newspapers and periodicals, also the average circulation per issue for daily, weekly, semiweekly, triweekly, monthly, quarterly, and all other papers and periodicals, as obtained from the returns of the Tenth and Eleventh censuses, is given in the following statement:

COMPARATIVE STATEMENT, AVERAGE CIRCULATION PER ISSUE, NEWSPAPERS AND PERIODICALS: 1880 AND 1890.

PERIODS OF ISSUE.	AVERAGE CIRCULATION PER ISSUE.	
	1880	1890
All classes	3,122	4,640
Daily	4,137	5,209
Weekly	2,113	2,078
Semiweekly	2,136	2,896
Triweekly	1,001	1,473
Monthly	7,834	11,317
Quarterly	16,505	36,109
All other	6,474	11,851

One of the characteristics of the press of the United States is the great number of different languages in which newspapers and periodicals are published. The following comparative statement shows the number of papers printed in different languages, as reported at the censuses of 1880 and 1890:

COMPARATIVE STATEMENT, NUMBER OF NEWSPAPERS AND PERIODICALS REPORTED AS PRINTED IN DIFFERENT LANGUAGES: 1880 AND 1890.

LANGUAGES.	NUMBER OF PUBLICATIONS.		LANGUAGES.	NUMBER OF PUBLICATIONS.	
	1880	1890		1880	1890
Total	11,314	17,616	Hebrew		6
			Hungarian		2
Armenian		1	Indian	3	
Bohemian	13	25	Irish	1	
Bohemian and English		1	Italian	4	14
Catalan	1		Italian and English		2
Chinese	2	3	Lithuanian		1
Choctaw and English		1	Polish	2	22
Dutch	9	18	Portuguese	2	2
English	10,515	16,457	Scandinavian (a)	49	130
Finnish		4	Slavonic, not specified		2
French	41	43	Spanish	26	33
French and English		6	Spanish and English		7
Gaelic		1	Volapuk		2
Gaelic and English		3	Volapuk and English		1
German	641	790	Welsh	5	4
German and English		30	Welsh and English		1
German and Hebrew		4			

a Embraces Norwegian, Swedish, and Danish.

The number of newspapers printed in foreign languages has increased from 799 in 1880 to 1,159 in 1890, or 45.06 per cent. The number published in foreign languages was 7.06 per cent of all papers published in 1880 and 6.58 per cent of all published in 1890. The preceding figures for 1890 include the 52 publications printed in English and some foreign language. The number of languages in which papers are printed has increased from 17 in 1880 to 23 in 1890. The Eleventh Census shows 8 languages that were not reported at 1880, while the Tenth Census shows 2 languages not reported for 1890. The number of publications in the different languages for each state and territory, as reported at the census of 1880 and that of 1890, is shown in Table 4.

CAPITAL.

The impracticability of obtaining accurate statistics as to the value of all classes of capital invested in newspapers and periodicals is explained in the report on "The newspaper and periodical press" for the Tenth Census. For the reasons there given, no attempt was made to ascertain the amount of capital invested in this industry at the census of 1880, although, on page 79 of that report, it is stated the capital for 1880 would approximate $53,000,000. The form of inquiry concerning capital used at the Eleventh Census, with the total amount reported for each item in the entire industry, is as follows:

Capital invested (both owned and borrowed):		
Value of plant (the value should be estimated at what the printing office would cost in 1890, if then to be erected, with such allowance for depreciation as may be suitable in the individual case):		
Land	$10,409,896	
Buildings	11,769,253	
Machinery, type, and presses	56,580,885	
Total		$78,760,034
Live capital:		
Printing paper and other stock on hand	5,997,471	
Work in process and finished products on hand	5,866,454	
Cash on hand, bills receivable, unsettled ledger accounts, and sundries not included in any of the foregoing items	35,645,926	
Total		47,509,851
Average annual allowance since June 1, 1880, for depreciation of buildings and machinery (a)		

a This question was imperfectly answered, and the amounts reported have not been tabulated and are not included in this report.

The items enumerated above do not include the value of property held in tenancy, for which an annual rental of $3,884,824 is shown to have been paid. In many cases the rent reported is paid for offices; it therefore should not

be considered as an indication of the value of the land and buildings rented in which manufacturing operations are conducted.

The amount of capital invested in newspapers and periodicals, as reported at the census of 1870, was $14,947,887; the estimated value of capital in 1880 was $53,000,000, or an increase over 1870 of 254.57 per cent. The total capital reported for the census of 1890 is $126,269,885, or an increase of 138.25 per cent over 1880. The statistics of capital are shown in detail for the different states and territories in Table 5.

MISCELLANEOUS EXPENSES.

In addition to questions concerning the amount paid as wages and the cost of materials, the schedule of inquiry used in 1890 contained a number of questions pertaining to expenses of a miscellaneous character. These statistics are shown in the following statement:

MISCELLANEOUS EXPENSES, NEWSPAPERS AND PERIODICALS: 1890.

Total	$35,727,039
Rent paid for tenancy	3,884,824
Taxes	605,687
Insurance	638,257
Repairs, ordinary, of buildings and machinery	996,355
Interest paid on cash used in the business	680,127
All sundries not elsewhere reported	28,921,789

The amount, $28,921,789, shown as expended for "All sundries not elsewhere reported" includes a number of important and necessary expenditures, such as commissions on advertising, contributions, telegrams, associated press privileges, postage, and amounts paid for composition or presswork when done by contract. The schedule of inquiry contained the question "State whether the publishers do their own printing". The following statement shows the number of establishments in each state that did not do their own composition or presswork during the census year 1890:

NUMBER OF NEWSPAPER ESTABLISHMENTS WHICH DID NOT DO THEIR OWN COMPOSITION OR PRESSWORK, BY STATES AND TERRITORIES: 1890.

STATES AND TERRITORIES.	Number of establishments.	STATES AND TERRITORIES.	Number of establishments.
Total	1,179	Mississippi	5
		Missouri	36
Alabama	10	Montana	2
Arkansas	3	Nebraska	14
California	34	New Hampshire	4
Colorado	1	New Jersey	12
Connecticut	17	New York	322
Delaware	1	North Carolina	9
Florida	3	North Dakota	1
Georgia	16	Ohio	55
Illinois	71	Oregon	6
Indiana	40	Pennsylvania	189
Iowa	33	Rhode Island	11
Kansas	13	South Carolina	2
Kentucky	9	South Dakota	2
Louisiana	20	Tennessee	12
Maine	9	Texas	14
Maryland	7	Virginia	22
Massachusetts	93	Washington	8
Michigan	26	West Virginia	5
Minnesota	10	Wisconsin	23

EMPLOYÉS AND WAGES.

Owing to changes in the form of the inquiry and to the fact that the employés and wages reported for 1890 include those engaged on job printing, the statistics shown under this head can not be used to ascertain the percentages of increase or decrease during the decade. The form of the inquiry relating to employés and wages in 1880 was as follows: "Total number of persons employed in manufacture, male ——, female ——. Number employed in editorial and reportorial work. Amount annually paid in wages". The questions used in 1890 called for the average number and total wages of males above 16 years, females above 15 years, and children, for the

following classes: (1) engineers, pressmen, electrotypers, binders, compositors paid by the week, proof readers, foremen, and other skilled workmen employed on weekly wages; (2) officers or firm members (actively employed); (3) clerks, bookkeepers, etc.; (4) editors, subeditors, and reporters, not included in the above; (5) watchmen, laborers, teamsters, and other unskilled workmen; (6) pieceworkers (compositors). The average number of persons employed at specified weekly rates of wages was also required. In this report classes 1 and 5 have been combined and are presented as "Operatives, skilled and unskilled". It is believed these questions obtained the true average number of employés of all classes engaged during the year and the full amount paid as wages or credited to the wage account, including the salary of the proprietor.

The statistics for employés and wages are presented in detail in Table 5 accompanying this report. The following statement shows the average number of males above 16 years, females above 15 years, and children, with the total wages and the average annual earnings per employé for each of the 5 classes enumerated above:

AVERAGE NUMBER OF EMPLOYÉS, TOTAL WAGES, AND AVERAGE ANNUAL WAGES PER EMPLOYÉ, BY CLASSES, NEWSPAPERS AND PERIODICALS: 1890.

CLASSES.	AGGREGATE.		MALES ABOVE 16 YEARS.			FEMALES ABOVE 15 YEARS.			CHILDREN.		
	Average number.	Total wages.	Average number.	Total wages.	Average annual wages per employé.	Average number.	Total wages.	Average annual wages per employé.	Average number.	Total wages.	Average annual wages per employé.
All classes	106,095	$68,601,532	88,000	$63,657,852	$723.38	12,131	$4,301,560	$354.59	5,964	$642,120	$107.67
Officers or firm members	11,200	11,475,877	10,972	11,326,208	1,032.28	228	149,669	656.44	.....	.....	.....
Editors, subeditors, and reporters	10,538	10,749,422	10,050	10,443,351	1,039.14	488	306,071	627.10	.....	.....	.....
Clerks and bookkeepers	8,920	6,301,296	6,604	5,371,597	813.39	2,316	929,699	401.42	.....	.....	.....
Operatives, skilled and unskilled	60,582	29,259,125	47,442	26,482,191	558.20	7,200	2,138,021	296.95	5,940	638,913	107.56
Pieceworkers	14,855	10,815,812	12,932	10,034,505	775.94	1,899	778,100	409.74	24	3,207	133.63

Of the 106,095 employés receiving $68,601,532 in wages reported for newspapers and periodicals, 10.56 per cent receiving 16.73 per cent of the total wages are returned as officers or firm members, 8.41 per cent receiving 9.18 per cent of the total wages as clerks, 9.93 per cent receiving 15.67 per cent of the total wages as editors, subeditors, and reporters, 14.00 per cent receiving 15.77 per cent of the total wages as pieceworkers, while all other employés represent 57.10 per cent of the total number and receive 42.65 per cent of the total wages.

There were 88,000 male employés reported for the industry, or 82.95 per cent of the entire number. There were 12,131 females, or 11.43 per cent, and 5,964 children, or 5.62 per cent of the total.

The following statement shows the average number of all classes of employés, excluding pieceworkers, reported at specified weekly rates of wages:

AVERAGE NUMBER OF EMPLOYÉS AT DIFFERENT WEEKLY RATES OF WAGES, INCLUDING OFFICERS, FIRM MEMBERS, EDITORS, SUBEDITORS, REPORTERS, AND CLERKS, BUT NOT THOSE EMPLOYED ON PIECEWORK, NEWSPAPERS AND PERIODICALS: 1890.

WEEKLY RATES OF WAGES.	AVERAGE NUMBER OF EMPLOYÉS.		
	Males above 16 years.	Females above 15 years.	Children.
Total	75,068	10,232	5,940
Under $5	7,914	3,137	5,731
$5 and over but under $6	2,663	1,692	144
$6 and over but under $7	3,394	1,560	34
$7 and over but under $8	3,394	914	a31
$8 and over but under $9	3,718	688	.....
$9 and over but under $10	5,229	595	.....
$10 and over but under $12	9,138	762	.....
$12 and over but under $15	11,043	457	.....
$15 and over but under $20	13,657	288	.....
$20 and over but under $25	6,396	88	.....
$25 and over	7,522	51	.....

a Includes children receiving $7 and over.

MATERIALS.

The total cost of materials used by establishments engaged in the publication of newspapers and periodicals during the census year 1890 is reported as amounting to $38,955,322. It is impossible to ascertain the exact proportion of this amount used in the publication of newspapers and periodicals as distinct from job printing. The quantity of paper consumed on newspapers and periodicals is reported as 552,876,161 pounds, valued at $23,905,384, or an average cost per pound of 4.32 cents. The questions required the quantity and value of paper used on certain classes of publications and in book and job printing to be reported separately. The results are summarized in the following statement:

QUANTITY AND COST OF PAPER USED AND AVERAGE COST PER POUND, NEWSPAPERS AND PERIODICALS: 1890.

ITEMS.	Pounds.	Cost.	Average cost per pound. (Cents.)
Total	670,929,492	$33,889,736	5.05
Paper used on dailies	326,620,576	11,930,793	3.65
Paper used on weeklies, semiweeklies, and triweeklies	170,260,470	8,765,517	5.15
Paper used on monthlies, quarterlies, and all others	55,995,115	3,209,074	5.73
Paper used in book and job printing	118,053,331	9,984,352	8.46

Of the total quantity of paper consumed in printing newspapers and periodicals, 59.08 per cent is used on the dailies, 30.79 per cent on the weeklies, semiweeklies, and triweeklies, and 10.13 per cent on the monthlies, quarterlies, and all others.

There is reported 8,496,697 pounds of ink used during the census year 1890, valued at $1,428,921, or an average price per pound of 16.82 cents. This includes ink used for all classes of work.

The cost of production, which includes the cost of materials, wages, and miscellaneous expenses, amounts to $143,283,893. Of this amount materials form 27.19 per cent; wages, including the salaries of officers, firm members, and clerks and editors, 47.88 per cent, and miscellaneous expenses, 24.93 per cent.

The difference between the cost, $143,283,893, and the value of products, $179,859,750, must not be considered as profit or earnings of capital. The census inquiry was intended only to ascertain the relation that capital, miscellaneous expenses, wages, cost of materials, and value of product bear to each other.

PRODUCTS.

Detailed statistics concerning the different products reported for newspapers and periodicals in the United States and in each state and territory are presented in Table 5. The following statement shows the value reported for the different classes of product and the percentage each is of the total:

CLASSES OF PRODUCT AND PERCENTAGE THE AMOUNT REPORTED FOR EACH IS OF TOTAL PRODUCT, NEWSPAPERS AND PERIODICALS: 1890.

CLASSES OF PRODUCT.	Amount.	Percentage of total product.
Total	$179,859,750	100.00
Advertising	71,243,361	39.61
Subscriptions and sales	72,343,087	40.22
Book and job printing	32,812,113	18.24
All other products	3,461,189	1.93

The two principal sources of revenue and the only products that pertain strictly to newspapers and periodicals are the amounts received for advertising and subscriptions and sales. The amounts received from these sources aggregate $143,586,448, of which advertising forms 49.62 per cent and subscriptions and sales 50.38 per cent.

CIRCULATION.

The aggregate circulation per issue for all classes of newspapers and periodicals during the census year 1890 was 69,138,934, distributed as follows: dailies, 8,387,188, or 12.13 per cent; weeklies, 28,954,515, or 41.88 per cent; semiweeklies, 561,743, or 0.81 per cent; triweeklies, 50,067, or 0.07 per cent; monthlies, 19,624,038, or 28.39 per cent; quarterlies, 8,124,500, or 11.75 per cent, and all other, 3,436,883, or 4.97 per cent of the aggregate.

The aggregate number of copies printed during the census year for all classes of newspapers and periodicals was 4,681,113,530, distributed as follows: dailies, 2,782,282,406, or 59.44 per cent; weeklies, 1,492,460,587, or 31.88 per cent; semiweeklies, 57,637,353, or 1.23 per cent; triweeklies, 7,634,350, or 0.16 per cent; monthlies, 232,617,133, or 4.97 per cent; quarterlies, 32,479,100, or 0.70 per cent, and all other, 76,002,601, or 1.62 per cent of the aggregate.

While the circulation per issue of daily newspapers is smaller than that of the weekly or monthly, it represents more than one-half of the grand aggregate of copies printed for all classes of papers during the year.

That the aggregate circulation of newspapers and periodicals is not dependent upon the number of different publications is illustrated by the totals for the state of New York. The aggregate circulation per issue for all classes of newspapers and periodicals in New York was 18,031,391, or 26.08 per cent of the entire circulation, while only 11.00 per cent of the different newspapers and periodicals are published in that state.

In the following statement the states and territories are ranked according to the aggregate circulation per issue during the census year for all classes of newspapers and periodicals and by the different periods of issue:

RANK OF STATES AND TERRITORIES ACCORDING TO AGGREGATE CIRCULATION PER ISSUE, NEWSPAPERS AND PERIODICALS: 1890.

STATES AND TERRITORIES.	All classes.	Daily.	Weekly.	Semiweekly.	Triweekly.	Monthly.	Quarterly.	All other.	STATES AND TERRITORIES.	All classes.	Daily.	Weekly.	Semiweekly.	Triweekly.	Monthly.	Quarterly.	All other
Alabama	27	31	27	24	.....	37	9	30	Montana	41	36	41	29	10	42	.....	31
Arizona	46	45	46	.....	.....	.....	.....	.....	Nebraska	20	18	16	31	.....	18	.....	14
Arkansas	32	39	28	.....	.....	34	.....	33	Nevada	49	43	50	.....	.....	.....	.....	.....
California	12	7	12	13	12	15	15	18	New Hampshire	26	29	25	26	.....	29	.....	.....
Colorado	28	23	32	22	8	25	.....	.....	New Jersey	9	11	19	21	8	6	18	23
Connecticut	21	14	26	25	.....	11	16	22	New Mexico	45	46	45	.....	.....	.....	.....	34
Delaware	43	35	42	.....	.....	40	.....	.....	New York	1	1	1	2	1	1	2	2
Dist. of Columbia	25	25	20	.....	.....	32	.....	.....	North Carolina	33	32	30	23	.....	35	22	26
Florida	39	38	38	.....	9	41	.....	33	North Dakota	40	42	39	23	.....	36	.....	.....
Georgia	17	22	18	23	.....	12	19	12	Ohio	4	4	4	4	2	7	4	1
Idaho	47	49	44	32	.....	.....	.....	.....	Oklahoma	48	48	47	.....	.....	43	.....	.....
Illinois	3	3	2	5	11	4	1	7	Oregon	29	30	29	27	.....	28	.....	34
Indiana	11	10	10	18	.....	10	8	10	Pennsylvania	2	2	3	3	3	2	3	3
Indian territory	50	50	48	.....	.....	.....	.....	.....	Rhode Island	34	24	40	33	.....	27	25	.....
Iowa	13	15	8	11	4	14	13	15	South Carolina	37	37	36	30	15	.....	17	29
Kansas	16	20	13	19	.....	19	24	28	South Dakota	35	40	33	20	.....	30	.....	24
Kentucky	18	13	17	8	5	24	.....	8	Tennessee	10	10	9	16	.....	16	6	16
Louisiana	23	21	22	15	.....	23	21	21	Texas	19	17	15	12	14	21	23	17
Maine	7	28	21	28	.....	3	20	5	Utah	42	34	49	9	.....	33	.....	20
Maryland	22	12	24	.....	.....	26	12	19	Vermont	30	41	35	.....	.....	17	.....	.....
Massachusetts	5	5	5	7	.....	5	5	4	Virginia	24	27	23	17	16	20	11	27
Michigan	8	8	7	14	7	9	14	13	Washington	31	26	31	.....	.....	31	.....	35
Minnesota	15	9	14	10	.....	13	20	6	West Virginia	36	33	34	34	.....	39	.....	32
Mississippi	38	44	37	.....	13	38	.....	25	Wisconsin	14	16	11	1	.....	22	10	9
Missouri	6	6	6	6	6	8	7	11	Wyoming	44	47	43	.....	.....	.....	.....	.....

The aggregate circulation per issue and the average number of inhabitants to each copy of the daily papers in each of the 28 cities that had a population of 100,000 and over, according to the census of 1890, is given in the following statement, the cities being arranged according to their rank in population. This statement also shows the rank of each city based upon the least number of inhabitants to each copy per issue.

STATISTICS RELATING TO DAILY PUBLICATIONS IN 28 PRINCIPAL CITIES: 1890. (*a*)

CITIES.	NUMBER OF DAILY PAPERS PUBLISHED.			Aggregate circulation per issue.	Population of cities, census of 1890.	Number of inhabitants to each copy per issue.	Rank of cities according to least number of inhabitants to each copy per issue.
	Total.	Morning.	Evening.				
New York, N. Y	50	34	16	1,698,553	1,515,301	0.89	1
Chicago, Ill	27	14	13	644,000	1,099,850	1.71	11
Philadelphia, Pa	24	13	11	804,008	1,046,964	1.30	6
Brooklyn, N. Y	5	.....	5	82,448	806,343	9.78	27
St. Louis, Mo	15	9	6	238,525	451,770	1.89	13
Boston, Mass	12	5	7	466,471	448,477	0.96	2
Baltimore, Md	7	6	1	133,510	434,439	3.25	22
San Francisco, Cal	21	14	7	286,912	298,997	1.04	5
Cincinnati, Ohio	14	10	4	213,500	296,908	1.39	7
Cleveland, Ohio	13	4	9	138,800	261,353	1.95	14
Buffalo, N. Y	10	3	7	120,800	255,664	2.12	17
New Orleans, La	9	4	5	73,900	242,039	3.28	23
Pittsburg, Pa	10	7	3	232,462	238,617	1.03	4
Washington, D. C	4	2	2	62,651	230,392	3.68	25
Detroit, Mich	8	2	6	134,388	205,876	1.53	8
Milwaukee, Wis	10	5	5	63,200	204,468	3.24	21
Newark, N. J	6	3	3	50,600	181,830	3.59	24
Minneapolis, Minn	9	4	5	92,323	164,738	1.78	12
Jersey city, N. J	4	1	3	28,300	163,003	5.76	26
Louisville, Ky	5	3	2	95,100	161,129	1.69	10
Omaha, Neb	8	2	6	60,320	140,452	2.33	19
Rochester, N. Y	7	2	5	65,276	133,896	2.05	16
St. Paul, Minn	7	3	4	67,850	133,156	1.96	15
Kansas city, Mo	9	6	3	130,700	132,716	1.02	3
Providence, R. I	3	1	2	52,000	132,146	2.54	20
Denver, Colo	5	3	2	48,000	106,713	2.22	18
Indianapolis, Ind	7	3	4	64,213	105,436	1.64	9
Allegheny, Pa. (*b*)	.....	.....	.....	.....	105,287	.....	.....

a This statement includes publications from which reports were not received, as follows:

New York, N. Y., 1 morning and 1 evening paper, with estimated circulation of	65,000
Philadelphia, Pa., 1 evening paper, with estimated circulation of	15,000
Brooklyn, N. Y., 1 evening paper, with estimated circulation of	15,000
Boston, Mass., 2 morning and 2 evening papers, with estimated circulation of	241,000
Cincinnati, Ohio, 1 morning paper, with estimated circulation of	58,000
Buffalo, N. Y., 1 evening paper, with estimated circulation of	41,000
Pittsburg, Pa., 2 morning papers, with estimated circulation of	47,000
Jersey city, N. J., 1 evening paper, with estimated circulation of	4,000
Rochester, N. Y., 1 evening paper, with estimated circulation of	12,000

Denver, Colo., 1 evening paper for which circulation is not shown.

b No daily papers in existence during census year 1890.

The above statement should not be considered as indicating the number of inhabitants in any city to the actual circulation in that city. For instance, the number of daily papers printed at each issue in New York city exceeds the population by 183,252, there being less than 1 person to each copy. The circulation per issue for Brooklyn is 723,895 less than the total population, there being nearly 10 persons to each copy. This apparent disproportion is caused by the large circulation in Brooklyn and elsewhere of the papers printed in New York city. Therefore the number of daily papers actually circulated in Brooklyn is considerably greater than that shown. No daily papers appear to have been printed in Allegheny, Pa., during the census year, and therefore no rank is given for that city. Pittsburg, the adjoining city, ranks number 4, there being but 1.03 inhabitants to each paper. It follows necessarily that the daily papers printed in Pittsburg circulate largely in Allegheny.

Data similar to that contained in the preceding statement was presented for 22 cities at the census of 1880. In the following statement the statistics for these 22 cities are placed in comparison:

COMPARATIVE STATEMENT, STATISTICS RELATING TO DAILY PUBLICATIONS IN 22 CITIES: 1880 AND 1890.

CITIES.	Year.	NUMBER OF DAILY PAPERS PUBLISHED.			Aggregate circulation per issue.	Population of cities.	Number of inhabitants to each copy per issue.	Rank of cities according to least number of inhabitants to each copy per issue.
		Total.	Morning.	Evening.				
New York, N. Y	1880	29	20	9	765,843	1,206,299	1.58	2
	1890	50	34	16	1,698,553	1,515,301	0.89	1
Chicago, Ill	1880	18	10	8	220,577	503,185	2.28	9
	1890	27	14	13	644,000	1,099,850	1.71	10
Philadelphia, Pa	1880	24	13	11	375,274	847,170	2.26	8
	1890	24	13	11	804,008	1,046,964	1.30	5
Brooklyn, N. Y	1880	4	.....	4	48,537	566,663	11.67	22
	1890	5	.....	5	82,448	806,343	9.78	22
St. Louis, Mo	1880	9	8	1	99,364	350,518	3.52	14
	1890	15	9	6	238,525	451,770	1.89	11
Boston, Mass	1880	11	6	5	221,315	362,839	1.64	4
	1890	12	5	7	466,471	448,477	0.96	2
Baltimore, Md	1880	9	6	3	128,643	332,313	2.58	10
	1890	7	6	1	133,510	434,439	3.25	17
San Francisco, Cal	1880	21	11	10	143,232	233,959	1.63	3
	1890	21	14	7	286,912	298,997	1.04	4
Cincinnati, Ohio	1880	12	8	4	117,549	255,139	2.17	7
	1890	14	10	4	213,500	296,908	1.39	6
Cleveland, Ohio	1880	8	2	6	48,730	160,146	3.29	12
	1890	13	4	9	133,800	261,353	1.95	12
Buffalo, N. Y	1880	7	2	5	26,100	155,134	5.94	19
	1890	10	3	7	120,800	255,664	2.12	14
New Orleans, La	1880	10	6	4	37,565	216,090	5.76	18
	1890	9	4	5	73,900	242,039	3.28	18
Pittsburg, Pa	1880	9	6	3	111,001	156,389	1.41	1
	1890	10	7	3	232,462	238,617	1.03	3
Washington, D. C	1880	5	3	2	34,500	147,293	4.27	15
	1890	4	2	2	62,651	230,392	3.68	20
Detroit, Mich	1880	6	3	3	41,533	116,340	2.80	11
	1890	8	2	6	134,388	205,876	1.53	7
Milwaukee, Wis	1880	7	4	3	24,300	115,587	4.76	16
	1890	10	5	5	63,200	204,468	3.24	16
Newark, N. J	1880	6	4	2	18,300	136,508	7.46	20
	1890	6	3	3	50,600	181,830	3.59	19
Jersey city, N. J	1880	2	.....	2	11,176	120,722	10.80	21
	1890	4	1	3	28,300	163,003	5.76	21
Louisville, Ky	1880	5	4	1	22,215	123,758	5.57	17
	1890	5	3	2	95,100	161,129	1.69	9
St. Paul, Minn	1880	6	3	3	19,893	41,473	2.08	5
	1890	7	3	4	67,850	133,156	1.96	13
Providence, R. I	1880	5	2	3	29,900	104,857	3.51	13
	1890	3	1	2	52,000	132,146	2.54	15
Indianapolis, Ind	1880	4	3	1	35,587	75,056	2.11	6
	1890	7	3	4	64,213	105,436	1.64	8

The number of inhabitants to each copy per issue for all classes of newspapers and periodicals in the different states and territories is given in the following statement, which also presents the total population and the aggregate circulation per issue for all classes of publications. The conditions governing the circulation and number of inhabitants to each copy issued for the daily papers in the principal cities apply to the statistics given in this statement, because there are certain cities known as newspaper and periodical centers, from which thousands of daily, weekly, and monthly publications are circulated outside the state in which the cities are located.

POPULATION, CIRCULATION, AND NUMBER OF INHABITANTS TO EACH COPY PER ISSUE, NEWSPAPERS AND PERIODICALS, BY STATES AND TERRITORIES: 1890.

STATES AND TERRITORIES.	Population, census of 1890.	Aggregate circulation per issue. (All classes of newspapers and periodicals.)	Number of inhabitants to each copy per issue.	STATES AND TERRITORIES.	Population, census of 1890.	Aggregate circulation per issue. (All classes of newspapers and periodicals.)	Number of inhabitants to each copy per issue.
The United States	62,622,250	69,138,934	a0.91	Missouri	2,679,184	2,615,135	1.02
				Montana	132,159	68,980	1.92
Alabama	1,513,017	246,847	6.13	Nebraska	1,058,910	635,505	1.67
Arizona	59,620	22,309	2.67	Nevada	45,761	14,530	3.15
Arkansas	1,128,179	192,749	5.85	New Hampshire	376,530	261,040	1.44
California	1,208,130	1,151,389	1.05	New Jersey	1,444,933	1,486,777	0.97
Colorado	412,198	229,669	1.79	New Mexico	153,593	23,157	6.63
Connecticut	746,258	496,084	1.50	New York	5,997,853	18,031,391	0.33
Delaware	168,493	55,582	3.03	North Carolina	1,617,947	178,077	9.09
District of Columbia	230,392	321,151	0.72	North Dakota	182,719	86,425	2.11
Florida	391,422	107,257	3.65	Ohio	3,672,316	5,639,781	0.65
Georgia	1,837,353	733,223	2.51	Oklahoma	61,834	14,654	4.22
Idaho	84,385	21,270	3.97	Oregon	313,767	208,855	1.50
Illinois	3,826,351	7,891,219	0.48	Pennsylvania	5,258,014	9,472,083	0.56
Indiana	2,192,404	1,299,418	1.69	Rhode Island	345,506	148,868	2.32
Indian territory	b180,182	8,995	20.03	South Carolina	1,151,149	121,672	9.46
Iowa	1,911,896	1,088,019	1.76	South Dakota	328,808	142,362	2.31
Kansas	1,427,096	756,746	1.89	Tennessee	1,767,518	1,450,118	1.22
Kentucky	1,858,635	727,781	2.55	Texas	2,235,523	658,183	3.40
Louisiana	1,118,587	358,183	3.12	Utah	207,905	68,000	3.06
Maine	661,086	2,442,046	0.27	Vermont	332,422	207,505	1.60
Maryland	1,042,390	392,068	2.66	Virginia	1,655,980	346,056	4.79
Massachusetts	2,238,943	4,662,159	0.48	Washington	349,390	204,488	1.71
Michigan	2,093,889	1,511,915	1.38	West Virginia	762,794	130,328	5.85
Minnesota	1,301,826	1,023,005	1.27	Wisconsin	1,686,880	1,053,389	1.60
Mississippi	1,289,600	108,061	11.93	Wyoming	60,705	24,370	2.49

a Result including the population of Indian territory.

b Not included in total population of the United States.

GENERAL TABLES.

Tables 1, 2, 3, and 4 are comparative for the censuses of 1880 and 1890, the data being presented by totals for states and territories. Table 1 presents totals for the general items of inquiry common to the two censuses. Table 2 shows the aggregate and average circulation per issue for all classes of newspapers and periodicals, classified according to period of issue. Table 3 presents the number of newspapers and periodicals in existence during the respective census years, classified according to periods of issue and character of publication. Table 4 shows the different languages and the number of newspapers and periodicals published in each.

Table 5 is a detailed statement and presents the statistics relating to capital, miscellaneous expenses, employés, wages, materials, and products for newspaper and periodical establishments, as reported at the census of 1890, by states and territories.

Table 6 shows the number of newspapers and periodicals, grouped by periods of issue and character of publication, by states and territories. In this table the number of publications that neglected to furnish the information required for census purposes are shown separately under the head "Number of publications not reporting".

Table 7 presents statistics concerning circulation and consumption of paper. The average circulation per issue and the aggregate number of copies printed during the census year is shown, by states and territories, for all classes of newspapers and periodicals and for the different periods of issue; also the number of pounds of paper used for each edition.

Table 8 shows the number of newspapers and periodicals printed in different languages, by states and territories, and shows separately the number of publications that did not furnish the information required for census purposes.

TABLE 1.—COMPARATIVE STATEMENT, NEWSPAPERS AND PERIODICALS, BY STATES AND TERRITORIES: 1880 AND 1890.

STATES AND TERRITORIES.	Year.	NUMBER OF PUBLICATIONS.			AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES. (a)		Pounds of paper consumed.	VALUE OF PRODUCTS.			Aggregate circulation per issue.	Aggregate number of copies printed and circulated during census year.
		Total.	Reporting. (b)	Not reporting. (c)	Employés.	Wages.		Total. (d)	Advertising.	Subscriptions and sales.		
The United States	1880	11,314	11,314	.....	71,615	$28,559,336	189,145,048	$89,009,074	$39,136,306	$49,872,768	31,779,686	2,067,848,209
	1890	17,616	14,901	2,715	106,095	68,601,532	552,876,161	143,586,448	71,243,361	72,343,087	69,138,934	4,681,113,530
Alabama	1880	125	125	.....	480	110,083	480,354	423,911	220,665	203,246	93,073	6,778,544
	1890	177	136	41	647	371,767	2,007,288	698,114	365,654	332,460	246,847	19,277,464
Arizona	1880	17	17	.....	107	45,828	105,048	95,700	58,000	37,700	13,550	1,413,600
	1890	35	29	6	124	83,091	189,620	114,630	59,680	54,950	22,309	2,551,928
Arkansas	1880	117	117	.....	488	119,048	383,857	340,103	182,201	157,902	103,501	4,990,595
	1890	193	164	29	624	322,742	1,083,505	461,261	232,376	228,885	192,749	13,768,353
California	1880	361	361	.....	2,349	1,300,140	6,375,390	3,936,238	2,150,917	1,785,321	640,026	72,861,836
	1890	555	455	100	3,405	2,890,203	20,229,809	5,595,605	3,099,453	2,496,152	1,151,389	163,716,618
Colorado	1880	87	87	.....	617	338,345	721,305	1,015,110	567,442	447,668	95,744	8,877,831
	1890	257	186	71	1,221	1,064,301	4,984,842	1,804,280	1,125,534	678,746	229,669	30,022,108
Connecticut	1880	139	139	.....	911	378,566	1,782,060	939,482	460,070	479,412	237,660	20,366,449
	1890	180	156	24	1,286	868,171	4,676,762	1,490,107	766,517	723,590	496,084	48,253,243
Dakota (e)	1880	67	67	.....	315	112,185	222,534	235,051	128,026	107,025	36,943	2,739,014
	1890	339	261	78	915	504,897	1,324,318	757,807	428,649	329,158	228,787	16,693,746
Delaware	1880	26	26	.....	190	55,279	344,864	156,088	91,983	64,105	34,425	5,172,998
	1890	41	32	9	215	108,150	580,218	169,646	105,316	64,330	55,582	8,033,402
District of Columbia	1880	44	44	.....	343	205,924	1,157,520	569,657	225,928	343,729	213,923	15,874,432
	1890	48	17	31	497	389,731	5,357,486	1,136,783	582,918	553,865	321,151	31,715,418
Florida	1880	45	45	.....	182	43,253	113,891	116,700	66,659	50,041	27,332	2,086,644
	1890	122	97	25	515	260,113	1,036,382	373,888	188,589	185,299	107,257	10,113,301
Georgia	1880	200	200	.....	1,084	331,327	1,530,830	948,629	468,511	480,118	269,066	20,994,549
	1890	279	230	49	1,415	769,724	7,028,445	1,633,286	838,034	795,252	733,223	48,512,208
Idaho	1880	10	10	.....	32	18,000	23,853	38,000	19,190	18,810	5,650	367,609
	1890	48	33	15	417	80,027	141,176	117,040	67,060	49,980	21,270	1,593,500
Illinois	1880	1,017	1,017	.....	6,583	2,736,717	15,649,893	7,264,585	3,179,954	4,084,631	2,421,275	174,696,505
	1890	1,416	1,241	175	9,502	6,431,079	60,907,589	13,525,673	7,072,055	6,453,618	7,891,219	465,924,592
Indiana	1880	467	467	.....	2,676	745,850	3,502,848	2,036,113	1,057,688	978,425	661,111	44,908,191
	1890	680	620	60	3,251	1,631,819	8,619,064	2,784,087	1,413,047	1,371,040	1,299,418	94,406,572
Indian territory (f)	1890	13	9	4	23	9,828	43,766	18,290	9,360	8,930	8,995	480,740
Indian territory, including Oklahoma. (g)	1880	3	3	.....	14	3,000	16,297	6,300	2,990	3,310	4,060	210,200
	1890	43	30	13	106	41,959	142,211	63,785	35,660	28,125	23,649	1,943,072
Iowa	1880	569	569	.....	2,637	647,407	2,765,927	2,088,170	1,150,806	937,364	547,340	35,747,302
	1890	804	703	101	3,576	1,744,480	7,809,310	2,670,693	1,371,817	1,298,876	1,088,019	80,780,202
Kansas	1880	347	347	.....	1,499	335,438	1,347,475	1,006,800	591,723	415,077	280,729	18,589,223
	1890	786	693	93	2,588	1,132,043	5,276,496	1,881,248	1,007,019	874,229	756,746	57,469,342
Kentucky	1880	205	205	.....	1,356	272,136	2,041,878	1,468,617	671,884	796,733	397,564	25,332,423
	1890	270	218	52	1,800	1,106,423	5,780,580	1,831,485	953,254	878,231	727,781	71,543,310
Louisiana	1880	112	112	.....	786	411,616	1,625,250	1,130,655	617,262	513,393	131,630	15,602,320
	1890	173	129	44	937	687,378	3,906,224	1,281,005	717,586	563,419	358,183	40,145,248
Maine	1880	123	123	.....	1,036	317,006	2,567,686	1,236,461	214,394	1,022,067	1,244,460	25,661,345
	1890	172	146	26	1,343	632,159	5,779,649	1,405,150	575,122	830,028	2,442,016	53,206,443
Maryland	1880	143	143	.....	1,163	486,958	3,983,128	1,567,893	859,847	708,046	414,693	50,115,182
	1890	170	124	46	1,251	846,819	6,477,706	1,739,705	1,039,291	700,414	392,068	56,855,415
Massachusetts	1880	427	427	.....	3,416	2,074,749	15,118,634	6,367,760	2,512,522	3,855,238	2,012,929	149,319,973
	1890	668	568	100	5,996	4,144,307	34,734,860	8,549,920	3,970,820	4,579,100	4,662,159	261,440,450
Michigan	1880	464	464	.....	2,439	729,673	4,648,339	2,057,438	1,002,092	1,055,346	620,974	46,659,470
	1890	657	589	68	3,668	1,824,744	11,680,577	3,274,089	1,711,309	1,562,780	1,511,915	122,904,401
Minnesota	1880	223	223	.....	1,178	390,161	1,545,303	947,903	524,540	423,363	222,074	18,097,781
	1890	445	392	53	2,630	1,707,637	10,193,158	3,153,605	1,639,136	1,514,469	1,023,005	95,551,359
Mississippi	1880	123	123	.....	468	109,036	426,012	380,893	211,934	168,959	87,904	5,293,418
	1890	161	119	42	384	158,038	493,593	279,025	139,576	139,449	108,061	7,266,800
Missouri	1880	530	530	.....	3,215	1,284,831	9,925,367	3,578,021	1,710,241	1,868,680	965,285	79,265,309
	1890	803	707	96	5,291	3,407,446	27,462,453	6,826,120	3,465,701	3,360,419	2,615,135	225,731,297
Montana	1880	18	18	.....	94	66,709	114,990	177,750	84,130	93,620	20,827	1,280,480
	1890	61	52	9	307	330,862	783,627	427,744	227,865	199,879	68,980	9,106,770
Nebraska	1880	189	189	.....	762	250,732	993,207	712,544	391,825	320,719	154,570	11,717,103
	1890	550	446	104	1,918	1,125,363	5,583,456	2,007,990	1,091,110	916,880	635,505	52,037,259
Nevada	1880	37	37	.....	202	162,338	354,444	338,800	215,139	123,661	27,745	5,820,575
	1890	25	15	10	63	58,725	158,962	93,209	51,835	41,374	14,530	3,010,210

a Includes for 1890 the employés engaged in the book and job printing branch of the industry and their wages.
b Includes for 1880, 1,182 publications, for which data concerning employés, wages, materials, products, or circulation were not reported.
c Publications that were in existence in 1890 from which returns were not received; this table therefore includes no data for them.
d For purposes of comparison the figures for 1890 do not include "Book and job printing" and "All other products", shown in the following tables.
e North and South Dakota combined for 1890 to compare with Dakota territory for 1880.
f See Indian territory, including Oklahoma.
g Indian territory and Oklahoma combined for 1890 to compare with Indian territory for 1880.

TABLE 1.—COMPARATIVE STATEMENT, NEWSPAPERS AND PERIODICALS, BY STATES AND TERRITORIES, ETC.—Cont'd.

STATES AND TERRITORIES.	Year.	NUMBER OF PUBLICATIONS.			AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.		Pounds of paper consumed.	VALUE OF PRODUCTS.			Aggregate circulation per issue.	Aggregate number of copies printed and circulated during census year.
		Total.	Reporting.	Not reporting.	Employés.	Wages.		Total.	Advertising.	Subscriptions and sales.		
New Hampshire	1880	87	87	.....	412	$119,203	581,916	$359,859	$179,015	$180,844	185,968	9,635,410
	1890	127	111	16	651	317,764	1,911,461	544,786	263,253	281,533	261,040	21,314,338
New Jersey	1880	215	215	.....	1,364	454,533	1,698,173	1,175,015	694,157	480,858	249,478	22,150,095
	1890	318	263	55	2,199	1,365,376	6,447,571	2,234,291	1,201,280	1,033,011	1,486,777	75,855,311
New Mexico	1880	18	18	.....	79	31,292	56,352	70,972	35,883	35,089	6,355	838,860
	1890	41	34	7	140	88,833	160,834	152,480	78,230	74,250	23,157	2,524,262
New York	1880	1,411	1,411	.....	12,402	6,460,071	57,823,682	24,266,911	8,674,173	15,592,738	9,374,134	577,755,819
	1890	1,938	1,627	311	18,086	14,933,132	105,413,361	37,842,822	17,861,315	19,981,507	18,031,391	1,177,147,744
North Carolina	1880	142	142	.....	502	119,809	460,590	344,132	178,324	165,808	105,501	6,819,382
	1890	176	135	41	567	236,590	1,111,101	440,710	211,733	228,977	178,077	14,821,936
North Dakota (a)	1890	112	87	25	337	203,352	510,604	307,392	179,216	128,176	86,425	6,357,508
Ohio	1880	774	774	.....	5,313	1,761,038	11,065,159	6,109,448	2,460,642	3,648,806	3,093,931	152,579,380
	1890	1,093	932	161	7,292	4,063,564	29,823,811	8,360,115	3,850,306	4,509,809	5,639,781	306,568,217
Oklahoma (b)	1890	30	21	9	83	32,131	98,445	45,495	26,300	19,195	14,654	1,462,332
Oregon	1880	74	74	.....	343	128,430	709,836	367,189	177,095	190,094	85,786	8,578,213
	1890	137	126	11	700	556,889	2,150,770	951,827	544,328	407,499	208,855	19,159,764
Pennsylvania	1880	973	973	.....	7,238	2,913,162	28,026,402	9,319,497	4,218,770	5,100,727	5,031,061	297,559,892
	1890	1,476	1,271	205	10,658	6,567,603	71,130,406	16,380,582	7,345,234	9,035,348	9,472,083	633,014,590
Rhode Island	1880	44	44	.....	443	206,526	123,745	455,726	214,155	241,571	97,121	14,496,498
	1890	72	54	18	579	374,891	3,135,927	727,040	443,901	283,139	148,808	26,228,741
South Carolina	1880	81	81	.....	393	110,081	432,478	309,238	145,907	163,331	69,902	5,774,415
	1890	100	84	16	449	237,385	1,007,108	445,661	212,081	233,580	121,672	11,248,784
South Dakota (a)	1890	227	174	53	578	301,545	813,714	450,415	249,433	200,982	142,362	10,336,238
Tennessee	1880	193	193	.....	901	265,456	1,423,483	784,081	373,450	410,631	293,288	18,293,872
	1890	254	219	35	1,357	827,531	5,185,720	1,479,767	737,741	742,026	1,450,118	72,094,743
Texas	1880	280	280	.....	1,457	772,059	1,791,588	1,100,295	570,089	530,206	263,289	19,883,792
	1890	512	437	75	1,995	1,193,550	5,345,193	2,212,990	1,263,338	949,652	658,183	55,040,136
Utah	1880	22	22	.....	168	88,580	321,039	177,058	81,270	95,788	36,175	3,867,500
	1890	39	28	11	378	279,277	1,206,050	483,555	271,770	211,785	68,000	9,626,740
Vermont	1880	82	82	.....	371	92,959	538,301	262,719	102,619	160,100	130,192	5,681,464
	1890	76	70	6	403	208,694	996,377	322,160	141,027	181,133	207,565	9,189,590
Virginia	1880	194	194	.....	961	261,362	1,352,930	698,826	356,204	342,622	256,471	18,422,845
	1890	231	185	46	899	442,131	1,977,387	818,073	424,255	393,818	346,056	28,172,077
Washington	1880	29	29	.....	109	34,975	76,968	87,400	48,840	38,560	16,751	1,062,103
	1890	172	144	28	797	683,827	2,615,931	1,149,285	759,784	389,501	204,488	23,547,244
West Virginia	1880	109	109	.....	511	99,671	378,670	301,411	169,280	132,131	85,958	4,903,466
	1890	144	112	32	532	222,052	1,080,543	389,257	188,351	200,906	130,328	12,428,686
Wisconsin	1880	340	340	.....	1,980	531,903	2,428,546	1,589,725	754,920	834,805	436,576	27,991,051
	1890	521	456	65	2,728	1,285,724	7,574,249	2,354,825	1,015,423	1,339,402	1,053,389	86,422,737
Wyoming	1880	11	11	.....	46	25,900	77,506	47,300	32,950	14,350	5,686	303,260
	1890	31	25	6	93	82,518	172,995	149,242	88,028	61,214	24,370	2,473,860

a See Dakota.

b See Indian territory including Oklahoma.

TABLE 2.—COMPARATIVE STATEMENT, AVERAGE AND AGGREGATE CIRCULATION PER ISSUE, CLASSIFIED

	STATES AND TERRITORIES.	Year.	AVERAGE CIRCULATION PER ISSUE.							
			All classes.	Daily.	Weekly.	Semiweekly.	Triweekly.	Monthly.	Quarterly.	All other.
1	The United States	1880	3,122	4,137	2,113	2,136	1,001	7,834	16,505	6,474
2		1890	4,640	5,209	2,678	2,896	1,473	11,317	36,109	11,851
3	Alabama	1880	862	1,932	778	.....	200	1,175	.....	1,500
4		1890	1,815	2,297	1,606	1,500	.....	974	14,500	975
5	Arizona	1880	968	720	1,106	.....	.....	.....	.....	.....
6		1890	769	651	814	.....	.....	.....	.....	.....
7	Arkansas	1880	1,067	1,006	927	1,500	.....	500	.....	5,283
8		1890	1,175	1,137	1,172	.....	.....	1,393	.....	600
9	California	1880	2,006	3,288	1,580	2,071	2,750	3,064	1,725	1,425
10		1890	2,531	4,591	1,942	619	375	3,336	7,000	1,650
11	Colorado	1880	1,294	1,884	1,070	600	.....	2,475	.....	.....
12		1890	1,235	2,963	842	720	1,300	4,875	.....	.....
13	Connecticut	1880	1,917	2,968	1,737	850	.....	2,583	700	794
14		1890	3,180	3,448	1,921	745	.....	9,264	4,500	1,275
15	Dakota (c)	1880	616	562	612	.....	.....	.....	.....	.....
16		1890	877	886	797	880	.....	1,854	.....	4,000
17	Delaware	1880	1,434	3,950	928	.....	.....	1,000	.....	.....
18		1890	1,737	4,090	1,310	.....	.....	1,250	.....	.....
19	District of Columbia	1880	5,485	9,125	5,535	.....	.....	4,747	1,050	.....
20		1890	18,891	15,663	22,136	.....	.....	7,500	.....	.....
21	Florida	1880	739	1,300	719	500	.....	.....	.....	.....
22		1890	1,106	1,384	1,088	.....	500	2,000	.....	300
23	Georgia	1880	1,259	2,141	1,069	1,100	600	3,706	.....	700
24		1890	3,188	3,713	2,499	2,000	.....	6,166	3,000	12,200
25	Idaho	1880	628	.....	664	500	500	.....	.....	.....
26		1890	645	567	668	440	.....	.....	.....	.....
27	Illinois	1880	2,551	3,955	2,269	1,713	1,085	4,463	1,500	2,478
28		1890	6,359	6,401	4,007	1,541	450	8,941	64,407	5,252
29	Indiana	1880	1,552	1,913	1,464	2,250	858	2,410	.....	979
30		1890	2,096	1,805	1,504	1,420	.....	6,097	4,867	5,056
31	Indian territory (d)	1890	999	500	1,062	.....	.....	.....	.....	.....
32	Indian territory, including Oklahoma. (e)	1880	2,030	.....	2,030	.....	.....	.....	.....	.....
33		1890	788	564	845	.....	.....	1,100	.....	.....
34	Iowa	1880	1,071	1,479	997	633	200	1,990	3,000	832
35		1890	1,548	2,404	1,341	1,028	2,400	3,411	3,188	3,480
36	Kansas	1880	961	1,528	878	1,800	.....	1,871	.....	1,200
37		1890	1,092	1,913	960	827	.....	3,317	700	743
38	Kentucky	1880	2,184	3,045	1,743	1,141	900	1,272	.....	42,850
39		1890	3,338	5,406	2,700	2,886	3,300	2,265	.....	13,456
40	Louisiana	1880	1,330	3,460	969	8,000	1,000	475	.....	2,200
41		1890	2,777	6,550	2,282	5,200	.....	3,123	1,700	2,067
42	Maine	1880	11,041	1,894	1,962	.....	480	60,953	1,500	400
43		1890	16,726	2,770	2,621	1,350	.....	54,574	1,000	50,463
44	Maryland	1880	3,166	9,472	2,508	.....	.....	1,976	900	1,413
45		1890	3,162	12,462	2,062	.....	.....	3,679	6,925	2,916
46	Massachusetts	1880	5,122	7,789	4,273	2,671	400	7,870	3,157	1,406
47		1890	8,208	7,960	5,363	3,634	.....	10,795	25,223	18,611
48	Michigan	1880	1,465	2,167	1,347	1,322	2,083	1,958	6,875	1,707
49		1890	2,567	4,096	1,843	1,338	1,700	7,709	10,552	3,611
50	Minnesota	1880	1,116	3,562	909	.....	750	5,030	.....	475
51		1890	2,610	6,014	1,667	15,000	.....	3,546	1,000	26,346
52	Mississippi	1880	806	840	773	400	733	2,033	.....	.....
53		1890	908	1,225	894	.....	500	859	.....	1,018
54	Missouri	1880	2,041	3,228	1,750	1,100	1,265	3,418	800	2,823
55		1890	3,699	5,285	2,610	4,100	1,305	8,558	15,056	2,566
56	Montana	1880	1,388	304	1,660	.....	.....	.....	.....	.....
57		1890	1,327	2,130	1,209	1,250	960	617	.....	1,000
58	Nebraska	1880	888	1,553	791	500	.....	2,173	.....	600
59		1890	1,425	2,732	1,134	450	.....	7,623	.....	2,614
60	Nevada	1880	841	1,225	561	.....	.....	500	.....	.....
61		1890	969	1,450	648	.....	.....	.....	.....	.....
62	New Hampshire	1880	2,296	907	1,800	.....	.....	5,614	.....	7,400
63		1890	2,352	2,369	2,431	725	.....	1,994	.....	.....
64	New Jersey	1880	1,306	2,116	1,112	900	750	1,811	6,000	517
65		1890	5,653	3,420	1,499	2,200	650	49,348	1,042	1,433
66	New Mexico	1880	530	667	484	.....	.....	.....	.....	.....
67		1890	681	1,284	604	.....	.....	.....	.....	500

a Includes a circulation of 150,000 not reported separately, distributed as follows: Georgia, 1 weekly, 1 semiweekly, and 1 monthly, circulation 50,000; Illinois, 4 weeklies, 13 monthlies, and 12 quarterlies, circulation 100,000.

b Includes 6 semiannual publications having a circulation of 19,750, distributed as follows: Illinois, 1; Michigan, 1; New York, 3, and Pennsylvania, 1.

ACCORDING TO PERIODS OF ISSUE, NEWSPAPERS AND PERIODICALS, BY STATES AND TERRITORIES: 1880 AND 1890.

AGGREGATE CIRCULATION PER ISSUE.								
All classes.	Dailies.	Weeklies.	Semiweeklies.	Triweeklies.	Monthlies.	Quarterlies.	All other.	
a31,779,686	3,566,395	16,266,830	264,910	68,086	8,139,881	b1,964,049	1,359,535	1
69,138,934	8,387,188	28,954,515	561,743	50,067	19,624,038	8,124,500	3,436,883	2
93,073	9,660	73,163	.....	200	7,050	.....	3,000	3
246,847	32,154	173,477	1,500	.....	8,766	29,000	1,950	4
13,550	3,600	9,950	.....	.....	.....	.....	.....	5
22,309	5,210	17,099	.....	.....	.....	.....	.....	6
103,501	5,030	80,621	1,500	.....	500	.....	15,850	7
192,749	15,917	166,482	.....	.....	9,750	.....	600	8
640,026	157,814	345,962	20,710	5,500	98,040	3,450	8,550	9
1,151,389	309,454	604,050	6,810	750	123,425	7,000	9,900	10
95,744	26,375	58,869	600	.....	9,900	.....	.....	11
229,669	68,150	128,809	2,160	1,300	29,250	.....	.....	12
237,660	47,490	152,895	1,700	.....	31,000	1,400	3,175	13
496,084	117,246	182,472	1,490	.....	185,276	4,500	5,100	14
36,943	4,500	32,443	.....	.....	.....	.....	.....	15
228,787	23,032	171,405	4,400	.....	25,950	.....	4,000	16
34,425	15,800	17,025	.....	.....	1,000	.....	.....	17
55,582	20,450	30,132	.....	.....	5,000	.....	.....	18
213,923	36,500	105,162	.....	.....	71,211	1,050	.....	19
321,151	62,651	243,500	.....	.....	15,000	.....	.....	20
27,332	2,600	23,732	1,000	.....	.....	.....	.....	21
107,257	16,605	87,052	.....	1,000	2,600	.....	600	22
a269,066	27,830	150,686	3,300	1,800	33,350	.....	2,100	23
793,223	70,546	442,250	2,000	.....	178,827	3,000	36,600	24
5,650	.....	4,650	500	500	.....	.....	.....	25
21,270	1,700	18,690	880	.....	.....	.....	.....	26
a2,421,275	270,923	1,527,042	29,129	6,510	401,646	31,500	54,525	27
7,801,219	774,486	3,437,663	30,820	900	1,627,250	1,867,800	152,300	28
661,111	72,698	518,322	2,250	1,716	60,250	.....	5,875	29
1,299,418	166,051	673,798	2,840	.....	371,909	29,200	55,620	30
8,995	500	8,495	.....	.....	.....	.....	.....	31
4,060	.....	4,060	.....	.....	.....	.....	.....	32
23,649	3,050	18,599	.....	.....	1,100	.....	.....	33
547,340	38,455	449,550	1,900	200	51,740	3,000	2,495	34
1,088,019	110,563	795,077	14,397	4,800	133,032	12,750	17,400	35
280,729	21,396	230,141	1,800	.....	26,192	.....	1,200	36
756,746	82,266	596,089	2,480	.....	72,983	700	2,228	37
397,564	33,492	240,473	6,844	1,800	29,255	.....	85,700	38
727,781	135,150	445,485	20,200	3,300	29,451	.....	94,195	39
131,630	38,065	81,415	8,600	1,000	950	.....	2,200	40
358,183	78,600	225,883	5,200	.....	40,600	1,700	6,200	41
1,214,460	18,940	156,940	.....	480	1,036,200	1,500	400	42
2,442,046	41,545	230,642	1,350	.....	1,964,659	2,000	201,850	43
414,693	132,613	255,770	.....	.....	19,760	900	5,650	44
392,068	137,085	210,310	.....	.....	22,075	13,850	8,748	45
2,012,920	280,399	1,089,515	34,727	400	574,538	22,100	11,250	46
4,662,159	445,781	1,802,125	25,440	.....	1,327,740	781,910	279,163	47
620,974	62,839	488,927	3,965	6,250	33,293	13,750	11,950	48
1,511,915	212,975	869,764	6,690	1,700	377,734	10,552	32,500	49
222,074	28,493	167,206	.....	750	25,150	.....	475	50
1,023,005	180,433	518,563	15,000	.....	148,033	2,000	158,076	51
87,904	4,200	75,004	400	2,200	6,100	.....	.....	52
108,061	7,350	91,206	.....	500	5,950	.....	3,055	53
965,285	122,660	645,747	1,100	10,120	153,800	800	31,058	54
2,615,135	428,094	1,346,714	28,700	2,610	624,767	135,500	48,750	55
20,827	912	19,915	.....	.....	.....	.....	.....	56
68,980	19,170	44,750	1,250	960	1,850	.....	1,000	57
154,570	18,630	121,800	500	.....	13,040	.....	600	58
635,505	84,698	447,757	900	.....	83,850	.....	18,300	59
27,745	17,155	10,090	.....	.....	500	.....	.....	60
14,530	8,700	5,830	.....	.....	.....	.....	.....	61
185,968	9,070	107,998	.....	.....	39,300	.....	29,600	62
261,040	37,900	201,752	1,450	.....	19,938	.....	.....	63
240,478	50,776	164,502	3,600	750	16,300	12,000	1,550	64
1,486,777	160,746	278,791	2,200	1,300	1,036,315	3,125	4,300	65
6,355	2,000	4,355	.....	.....	.....	.....	.....	66
23,157	5,134	17,523	.....	.....	.....	.....	500	67

a North and South Dakota combined for 1890 to compare with Dakota territory for 1880.
b See Indian territory, including Oklahoma.
c Indian territory and Oklahoma combined for 1890 to compare with Indian territory for 1880.

TABLE 2.—COMPARATIVE STATEMENT, AVERAGE AND AGGREGATE CIRCULATION PER ISSUE, CLASSIFIED ACCORDING

	STATES AND TERRITORIES.	Year.	AVERAGE CIRCULATION PER ISSUE.							
			All classes.	Daily.	Weekly.	Semiweekly.	Triweekly.	Monthly.	Quarterly.	All other.
68	New York	1880	7,222	9,059	5,265	4,371	1,128	11,040	19,736	5,840
69		1890	11,083	13,081	6,848	3,258	3,638	17,697	34,943	12,649
70	North Carolina	1880	894	793	878	700	375	1,125	.....	1,303
71		1890	1,319	1,156	1,371	667	.....	1,810	500	1,275
72	North Dakota (a)	1890	993	1,317	897	1,000	.....	2,200	.....	.....
73	Ohio	1880	4,345	4,507	2,450	1,563	838	7,880	51,109	17,589
74		1890	6,051	4,130	3,144	2,328	1,404	9,024	53,720	41,584
75	Oklahoma (b)	1890	698	575	722	.....	.....	1,100	.....	.....
76	Oregon	1880	1,320	1,581	1,133	.....	.....	2,555	1,600	.....
77		1890	1,658	2,045	1,542	1,400	.....	2,500	.....	500
78	Pennsylvania	1880	5,628	6,285	3,255	4,600	1,500	10,926	29,180	20,096
79		1890	7,452	8,682	4,067	5,006	1,900	10,390	43,912	16,726
80	Rhode Island	1880	2,490	5,175	1,984	700	.....	1,013	.....	400
81		1890	2,757	7,551	1,989	425	.....	1,574	350	.....
82	South Carolina	1880	971	1,937	959	500	450	555	700	.....
83		1890	1,448	2,854	1,341	463	200	.....	3,500	2,000
84	South Dakota (a)	1890	818	727	745	800	.....	1,715	.....	4,000
85	Tennessee	1880	1,822	3,099	1,714	850	.....	2,385	2,450	1,223
86		1890	6,622	4,608	4,474	2,070	.....	4,929	82,583	3,213
87	Texas	1880	1,145	1,262	938	725	600	5,504	.....	650
88		1890	1,506	2,074	1,358	1,207	480	2,831	1,000	10,000
89	Utah	1880	1,904	1,987	1,707	2,050	.....	1,525	.....	3,500
90		1890	2,429	2,281	1,367	2,868	.....	3,000	.....	3,600
91	Vermont	1880	2,245	1,050	1,492	.....	.....	17,167	1,100	285
92		1890	2,965	2,140	1,729	.....	.....	13,800	.....	.....
93	Virginia	1880	1,449	1,892	1,073	699	740	2,363	1,767	6,308
94		1890	1,571	2,243	1,632	620	192	3,127	5,833	1,250
95	Washington	1880	608	367	745	.....	.....	.....	.....	.....
96		1890	1,420	2,720	1,179	.....	.....	2,279	.....	450
97	West Virginia	1880	868	2,050	852	625	500	961	1,000	150
98		1890	1,164	2,511	1,065	250	.....	1,100	.....	425
99	Wisconsin	1880	1,404	1,856	1,230	700	1,267	1,814	.....	4,138
100		1890	2,310	2,289	1,762	44,368	.....	2,586	6,875	8,305
101	Wyoming	1880	632	662	617	.....	.....	.....	.....	.....
102		1890	975	924	988	.....	.....	.....	.....	.....

a See Dakota.

TO PERIODS OF ISSUE, NEWSPAPERS AND PERIODICALS, BY STATES AND TERRITORIES: 1880 AND 1890—Continued.

AGGREGATE CIRCULATION PER ISSUE.								
All classes.	Dailies.	Weeklies.	Semiweeklies.	Triweeklies.	Monthlies.	Quarterlies.	All other.	
9,374,134	996,561	4,253,908	100,544	4,510	2,903,527	828,913	286,171	68
18,031,391	2,119,101	6,347,827	100,998	14,550	6,990,400	1,712,200	746,315	69
105,501	7,934	83,437	1,400	750	6,750	.....	5,230	70
178,077	23,110	139,867	2,000	.....	9,050	1,500	2,550	71
86,425	9,220	66,405	2,000	.....	8,800	.....	.....	72
3,093,931	216,336	1,328,133	6,250	6,700	622,531	562,200	351,781	73
5,639,781	499,712	1,996,400	44,230	9,825	956,522	1,342,997	790,095	74
14,654	3,450	10,104	.....	.....	1,100	.....	.....	75
85,786	11,070	57,786	.....	.....	15,330	1,600	.....	76
208,855	32,712	154,243	1,400	.....	20,000	.....	500	77
5,031,061	578,227	1,998,340	13,800	6,000	1,696,073	466,886	361,725	78
9,472,083	1,241,514	3,135,664	65,078	5,700	2,763,798	1,624,741	635,588	79
97,121	41,402	51,579	700	.....	3,040	.....	400	80
148,868	67,959	59,666	425	.....	20,468	350	.....	81
69,902	7,750	58,492	500	1,350	1,110	700	.....	82
121,672	17,125	97,922	925	200	.....	3,500	2,000	83
142,362	13,812	105,000	2,400	.....	17,150	.....	4,000	84
293,288	30,995	224,503	1,700	.....	23,850	4,000	7,340	85
1,450,118	82,941	756,105	4,140	.....	98,582	495,500	12,850	86
263,289	30,297	180,102	1,450	600	49,540	.....	1,300	87
658,183	87,123	498,557	7,240	480	53,783	1,000	10,000	88
36,175	7,950	11,950	8,200	.....	4,575	.....	3,500	89
68,000	20,525	8,200	20,075	.....	12,000	.....	7,200	90
130,192	4,200	73,107	.....	.....	51,500	1,100	285	91
207,565	10,700	100,265	.....	.....	96,600	.....	.....	92
256,471	32,172	121,281	4,191	3,700	70,002	5,300	18,925	93
346,056	47,106	218,748	3,720	192	56,290	17,500	2,500	94
16,751	1,100	15,651	.....	.....	.....	.....	.....	95
204,488	48,954	139,134	.....	.....	15,950	.....	450	96
85,958	4,100	74,152	1,250	500	4,806	1,000	150	97
130,328	22,600	101,128	250	.....	5,500	.....	850	98
436,576	33,400	316,179	1,400	3,800	36,282	.....	45,515	99
1,053,389	107,594	657,300	133,105	.....	51,715	20,625	83,050	100
5,686	1,986	3,700	.....	.....	.....	.....	.....	101
24,370	4,620	19,750	.....	.....	.....	.....	.....	102

b See Indian territory, including Oklahoma.

TABLE 3.—COMPARATIVE STATEMENT, PERIODS OF ISSUE AND CHARACTER OF

	STATES AND TERRITORIES.	Year.	Total number of publications.	PERIODS OF ISSUE. Number published. Daily. Total.	Morning.	Evening.	Weekly.	Semi-weekly.	Triweekly.	Monthly.	Quarterly.	All other.
1	The United States	1880	11,314	971	438	533	8,633	133	73	1,167	116	221
2		1890	17,616	1,731	599	1,132	12,721	214	40	2,247	271	392
3	Alabama	1880	125	6	3	3	109	.....	1	7	.....	2
4		1890	177	16	9	7	143	1	.....	11	2	4
5	Arizona	1880	17	6	3	3	11	.....	.....	.....	.....	.....
6		1890	35	9	6	3	26	.....	.....	.....	.....	.....
7	Arkansas	1880	117	6	2	4	104	1	.....	2	.....	4
8		1890	193	14	4	10	168	2	.....	8	.....	1
9	California	1880	361	58	30	28	250	11	2	32	2	6
10		1890	555	96	45	51	380	12	2	54	1	10
11	Colorado	1880	87	19	12	7	63	1	.....	4	.....	.....
12		1890	257	28	11	17	207	3	1	17	.....	1
13	Connecticut	1880	130	17	7	10	99	2	.....	15	2	4
14		1890	180	35	12	23	111	2	1	25	1	5
15	Dakota (b)	1880	67	9	4	5	57	1	.....	.....	.....	.....
16		1890	339	28	11	17	287	5	.....	18	.....	1
17	Delaware	1880	26	5	2	3	20	.....	.....	1	.....	.....
18		1890	41	5	2	3	31	.....	.....	5	.....	.....
19	District of Columbia	1880	44	5	3	2	23	.....	.....	15	1	.....
20		1890	48	4	2	2	29	.....	.....	11	2	2
21	Florida	1880	45	3	3	.....	40	2	.....	.....	.....	.....
22		1890	122	14	6	8	101	.....	2	3	.....	2
23	Georgia	1880	200	16	11	5	163	3	4	11	.....	3
24		1890	279	24	16	8	210	1	.....	39	1	4
25	Idaho	1880	10	.....	.....	.....	7	2	1	.....	.....	.....
26		1890	48	3	2	1	43	2	.....	.....	.....	.....
27	Illinois	1880	1,017	74	30	44	758	17	6	118	21	23
28		1890	1,416	125	44	81	968	21	2	225	33	42
29	Indiana	1880	467	40	12	28	390	1	3	27	.....	6
30		1890	680	97	18	79	489	3	.....	74	6	11
31	Indian territory (c)	1890	13	1	1	.....	12	.....	.....	.....	.....	.....
32	Indian territory, including Oklahoma. (d)	1880	3	.....	.....	.....	3	.....	.....	.....	.....	.....
33		1890	43	8	4	4	34	.....	.....	1	.....	.....
34	Iowa	1880	569	30	12	18	500	3	1	31	1	3
35		1890	804	49	18	31	675	15	2	52	4	7
36	Kansas	1880	347	20	8	12	310	1	.....	15	.....	1
37		1890	786	45	12	33	701	3	.....	29	1	7
38	Kentucky	1880	205	11	7	4	160	7	2	23	.....	2
39		1890	270	27	12	15	208	8	1	19	.....	7
40	Louisiana	1880	112	13	8	5	94	1	1	2	.....	1
41		1890	173	14	8	6	140	1	.....	13	1	4
42	Maine	1880	123	12	4	8	90	.....	1	18	1	1
43		1890	172	17	6	11	101	2	.....	44	3	5
44	Maryland	1880	143	15	10	5	111	.....	.....	12	1	4
45		1890	170	13	9	4	128	.....	.....	18	5	6
46	Massachusetts	1880	427	39	16	23	279	13	1	80	7	8
47		1890	668	60	12	48	373	7	.....	168	37	23
48	Michigan	1880	464	33	13	20	397	3	3	19	1	8
49		1890	657	53	12	41	522	5	2	69	1	14
50	Minnesota	1880	223	10	4	6	205	.....	1	6	.....	1
51		1890	445	30	11	19	355	1	.....	49	2	8
52	Mississippi	1880	123	5	3	2	109	1	5	3	.....	.....
53		1890	161	7	3	4	139	.....	3	9	.....	3
54	Missouri	1880	530	43	22	21	415	2	8	50	1	11
55		1890	803	83	28	55	585	7	2	88	13	25
56	Montana	1880	18	4	4	.....	14	.....	.....	.....	.....	.....
57		1890	61	10	4	6	42	2	1	4	.....	2
58	Nebraska	1880	189	15	5	10	165	1	.....	7	.....	1
59		1890	550	37	9	28	486	2	.....	17	.....	8
60	Nevada	1880	37	14	5	9	22	.....	.....	1	.....	.....
61		1890	25	10	3	7	15	.....	.....	.....	.....	.....

a For purposes of comparison 1880 includes 217 children's publications and Sunday school papers, and 1890, 173 Sunday publications (not connected with daily newspapers).

b North and South Dakota combined for 1890 to compare with Dakota territory for 1880.

PUBLICATION, NEWSPAPERS AND PERIODICALS, BY STATES AND TERRITORIES: 1880 AND 1890.

CHARACTER OF PUBLICATION.												
Number devoted to—												
News, politics and family reading.	Religion.	Agricultural, horticultural, dairy, and stock raising.	Commerce, finance, insurance, railroads, and trade.	General literature, including magazines.	Medicine and surgery.	Law.	Science and mechanics.	Freemasonry, Odd Fellowship, and temperance.	Education and history, including college and school publications.	Society, art, music, and fashion.	Miscellaneous. (a)	
8,863	553	173	363	189	114	45	68	149	248	72	477	1
13,147	1,182	312	778	387	187	51	123	277	396	198	578	2
114	5	2				1			3			3
149	14	4	1	1	1		2	1	2		2	4
17												5
31		3									1	6
106	5	2		1	1		1				1	7
176	8	1			1		1	3	2		1	8
270	12	7	27	4	3	3	3	7	6	3	16	9
428	20	14	35	10	5	1	3	9	5	3	22	10
78	2	1	1				2	1	1		1	11
218	6	3	10	3	2		3	4	1	2	5	12
110	3	4		2	1		1	5	11		2	13
133	11	5	4	8	1		3	1	8	1	5	14
67												15
317	6	2	1	1				1	10		1	16
24	1								1			17
31	2	1							2	1	4	18
20			2	2	1	2	1	3	2		11	19
20	1	1	4			3	4	3	1	1	10	20
41		2	1	1								21
105	4	4	4					1	2	1	1	22
177	7	4		2	3			1		1	5	23
222	14	5	5	3	6		2	1	11	3	7	24
10												25
47			1									26
736	49	15	66	9	8	5	5	13	19	7	85	27
950	114	31	111	35	19	5	20	23	19	20	69	28
422	13	7	3		2		2	6	9		3	29
553	32	22	18	1	7		2	9	14	2	20	30
11	1										1	31
3												32
40	2										1	33
519	15	4		2		1	1	7	15	1	4	34
707	31	7	8	3	2			15	17	4	10	35
322	4	5		2	1			3	3		7	36
724	11	9	5	1	1			7	14	4	10	37
162	13	6	4	3	4			2	5		6	38
218	20	4	9	1	3	1		1	7		6	39
96	7	1	1		1			1	1		4	40
127	11	6	8		2		1	2	3		13	41
91	9	4	1	8			2	2	3		3	42
112	8	7	2	24				4	8	3	4	43
105	10	5	5	3	2	1	1	3	4		4	44
129	11	4	6	2	3		2	1	3	1	8	45
281	30	6	19	20	2	2	5	6	15	10	31	46
353	86	15	38	42	7	2	14	19	33	15	44	47
413	11	5	3	1	7		2	5	9	3	5	48
512	39	10	9	7	7	1	1	11	14	3	13	49
207	3	3	2					2	2		4	50
355	22	7	14	10	2	2	3	6	8	4	12	51
115	4	3							1			52
143	8	4		1				1	4			53
425	28	7	17	5	8	3	2	9	11	2	13	54
593	63	16	53	9	10	4	4	6	13	7	16	55
17		1										56
50	3	5	1								2	57
178	2	3	1	2					2		1	58
510	5	8	8	2	3			3	4	2	5	59
35							2					60
25												61

c See Indian territory, including Oklahoma.
d Indian territory and Oklahoma combined for 1890 to compare with Indian territory for 1880.

TABLE 3.—COMPARATIVE STATEMENT, PERIODS OF ISSUE AND CHARACTER OF PUBLICATION,

	STATES AND TERRITORIES.	Year.	Total number of publications.	PERIODS OF ISSUE. Number published. Daily. Total.	Daily. Morning.	Daily. Evening.	Weekly.	Semi-weekly.	Triweekly.	Monthly.	Quarterly.	All other.
62	New Hampshire	1880	87	10	2	8	66	.....	.....	7	.....	4
63		1890	127	20	4	16	90	4	.....	12	.....	1
64	New Jersey	1880	215	27	8	19	163	6	1	13	2	3
65		1890	318	48	16	32	231	1	2	27	4	5
66	New Mexico	1880	18	3	2	1	15	.....	.....	.....	.....	.....
67		1890	41	4	1	3	36	.....	.....	.....	.....	1
68	New York	1880	1,411	115	46	69	892	24	5	282	40	53
69		1890	1,938	168	66	102	1,075	34	4	517	66	74
70	North Carolina	1880	142	13	7	6	113	3	2	7	.....	4
71		1890	176	21	9	12	135	3	.....	9	3	5
72	North Dakota (a)	1890	112	7	3	4	98	2	.....	5	.....	.....
73	Ohio	1880	774	56	22	34	584	4	8	90	11	21
74		1890	1,093	125	28	97	738	19	7	151	25	28
75	Oklahoma (b)	1890	30	7	3	4	22	.....	.....	1	.....	.....
76	Oregon	1880	74	7	4	3	59	.....	.....	6	1	1
77		1890	137	16	7	9	109	1	.....	10	.....	1
78	Pennsylvania	1880	973	98	42	56	674	3	4	159	16	19
79		1890	1,476	164	52	112	901	14	3	305	43	46
80	Rhode Island	1880	44	8	2	6	31	1	.....	3	.....	1
81		1890	72	10	3	7	42	2	1	15	1	1
82	South Carolina	1880	81	4	3	1	69	1	3	3	1	.....
83		1890	100	6	4	2	85	2	1	3	2	1
84	South Dakota (a)	1890	227	21	8	13	189	3	.....	13	.....	1
85	Tennessee	1880	193	12	7	5	154	2	.....	16	2	7
86		1890	254	19	8	11	196	2	.....	27	6	4
87	Texas	1880	280	30	14	16	231	2	1	14	.....	2
88		1890	512	44	15	29	433	6	1	26	1	1
89	Utah	1880	22	5	2	3	8	4	.....	4	.....	1
90		1890	30	9	4	5	10	9	.....	8	.....	3
91	Vermont	1880	82	5	2	3	72	.....	.....	3	1	1
92		1890	76	5	2	3	60	.....	.....	11	.....	.....
93	Virginia	1880	194	20	15	5	124	6	5	33	3	3
94		1890	231	23	12	11	167	7	2	26	4	2
95	Washington	1880	29	4	4	.....	23	.....	.....	2	.....	.....
96		1890	172	23	9	14	141	.....	.....	7	.....	1
97	West Virginia	1880	109	2	2	.....	96	2	1	6	1	1
98		1890	144	11	4	7	124	1	.....	6	.....	2
99	Wisconsin	1880	340	21	9	12	283	2	3	20	.....	11
100		1890	521	49	14	35	426	3	.....	26	3	14
101	Wyoming	1880	11	3	2	1	8	.....	.....	.....	.....	.....
102		1890	31	5	2	3	25	1	.....	.....	.....	.....

a See Dakota.

NEWSPAPERS AND PERIODICALS, BY STATES AND TERRITORIES: 1880 AND 1890—Continued.

CHARACTER OF PUBLICATION.												
Number devoted to—												
News, politics, and family reading.	Religion.	Agricultural, horticultural, dairy, and stock raising.	Commerce, finance, insurance, railroads, and trade.	General literature, including magazines.	Medicine and surgery.	Law.	Science and mechanics.	Freemasonry, Odd Fellowship, and temperance.	Education and history, including college and school publications.	Society, art, music, and fashion.	Miscellaneous.	
74	3	1	.....	5	.....	.....	.....	1	1	1	1	62
110	5	.....	1	6	.....	.....	.....	1	2	1	1	63
194	3	1	2	3	1	1	1	4	4	.....	1	64
260	13	1	3	5	.....	4	1	10	6	3	12	65
17	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
38	1	1	.....	.....	.....	.....	.....	.....	.....	.....	1	67
816	97	20	125	77	38	6	28	16	35	28	116	68
965	181	30	259	124	46	12	41	44	55	77	104	69
118	12	4	2	2	1	.....	.....	2	1	.....	.....	70
147	16	3	2	1	1	.....	.....	.....	4	.....	2	71
105	2	1	.....	.....	.....	.....	.....	1	2	.....	1	72
576	57	12	24	2	11	4	4	12	10	7	46	73
790	109	16	29	21	12	3	3	24	33	9	44	74
29	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	75
60	5	1	2	2	1	.....	.....	.....	2	.....	1	76
116	6	2	3	.....	.....	.....	.....	1	4	.....	5	77
675	75	13	41	18	13	13	3	15	23	5	79	78
022	198	18	83	38	25	12	10	39	41	23	67	79
39	.....	.....	.....	.....	.....	.....	.....	3	2	.....	.....	80
46	4	.....	4	3	.....	.....	.....	6	5	.....	4	81
68	10	.....	.....	.....	.....	.....	.....	2	1	.....	.....	82
87	9	1	.....	1	.....	.....	.....	.....	1	.....	1	83
212	4	1	1	1	.....	.....	.....	.....	8	.....	.....	84
147	14	.....	4	5	3	.....	.....	4	9	.....	7	85
193	31	2	7	1	4	.....	1	2	9	1	3	86
254	14	2	2	2	.....	1	.....	2	1	1	1	87
447	12	9	8	4	4	.....	.....	4	5	2	17	88
15	4	1	.....	.....	.....	.....	.....	.....	.....	.....	2	89
22	3	4	3	3	.....	.....	.....	.....	1	.....	3	90
74	3	2	.....	1	.....	.....	.....	.....	2	.....	.....	91
63	3	.....	1	4	1	.....	.....	1	3	.....	.....	92
135	11	6	3	2	2	2	1	4	15	2	11	93
177	20	5	6	2	3	1	.....	2	10	3	2	94
28	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	95
155	2	3	6	.....	.....	.....	.....	.....	2	.....	4	96
100	3	.....	.....	1	.....	.....	.....	1	2	.....	2	97
127	4	1	3	1	.....	.....	.....	3	3	.....	2	98
301	7	4	5	2	.....	.....	1	7	8	1	4	99
444	13	17	5	9	.....	.....	2	8	7	2	14	100
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	101
30	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	102

b See Indian territory, including Oklahoma.

TABLE 4.—COMPARATIVE STATEMENT, NUMBER OF NEWSPAPERS AND PERIODICALS

	STATES AND TERRITORIES.	Year.	Total number of publications.	NUMBER OF PUBLICATIONS, CLASSIFIED ACCORDING TO LANGUAGE.												
				Armenian.	Bohemian.	Bohemian and English.	Catalan.	Chinese.	Dutch.	English.	Finnish.	French.	French and English.	Gaelic.	Gaelic and English.	German.
1	The United States	1880	11,314		13		1	2	9	10,515		41				641
2		1890	17,616	1	25	1		3	18	16,457	4	43	6	1	3	790
3	Alabama	1880	125							125						
4		1890	177							177						
5	Arizona	1880	17							16						
6		1890	35							34						
7	Arkansas	1880	117							116						1
8		1890	193							191						2
9	California	1880	361					2		328		5				15
10		1890	555					3		515		6				17
11	Colorado	1880	87							84						3
12		1890	257							251						5
13	Connecticut	1880	139							134						5
14		1890	180							171						9
15	Dakota (c)	1880	67							65						1
16		1890	339			1			1	325			1			4
17	Delaware	1880	26							25						1
18		1890	41							39						2
19	District of Columbia	1880	44							41						3
20		1890	48							46						2
21	Florida	1880	45							45						
22		1890	122							121						
23	Georgia	1880	200							199						1
24		1890	279							278						1
25	Idaho	1880	10							10						
26		1890	48							48						
27	Illinois	1880	1,017		4					920		1				70
28		1890	1,416		7				1	1,270		2			1	81
29	Indiana	1880	467							435						32
30		1890	680							646						33
31	Indian territory (d)	1890	13							12						
32	Indian territory, including Oklahoma. (e)	1880	3							1						
33		1890	43							42						
34	Iowa	1880	569		1				2	523						36
35		1890	804		1				3	750						40
36	Kansas	1880	347							334						11
37		1890	786							768						14
38	Kentucky	1880	205							194						11
39		1890	270							264						6
40	Louisiana	1880	112							93		15				4
41		1890	173							154		7	4			5
42	Maine	1880	123							123						
43		1890	172							172						
44	Maryland	1880	143							134						9
45		1890	170							161						9
46	Massachusetts	1880	427							422		4				1
47		1890	668							641		13	1		1	10
48	Michigan	1880	464						6	439		2				15
49		1890	657						9	600	2	3				27
50	Minnesota	1880	223							202		1				13
51		1890	445							389	1	2				18
52	Mississippi	1880	123							123						
53		1890	161							161						
54	Missouri	1880	530							494		1				34
55		1890	803		1					754						41
56	Montana	1880	18							18						
57		1890	61							60						1
58	Nebraska	1880	189		1					175						11
59		1890	550		3					522						16
60	Nevada	1880	37							37						
61		1890	25							25						
62	New Hampshire	1880	87							87						
63		1890	127							123		2				2

a Choctaw.
b Embraces Norwegian, Swedish, and Danish publications.
c North and South Dakota combined for 1890 to compare with Dakota territory for 1880.

PRINTED IN DIFFERENT LANGUAGES, BY STATES AND TERRITORIES: 1880 AND 1890.

NUMBER OF PUBLICATIONS, CLASSIFIED ACCORDING TO LANGUAGE—continued.																				
German and English.	German and Hebrew.	Hebrew.	Hungarian.	Indian.	Indian (a) and English.	Irish.	Italian.	Italian and English.	Lithuanian.	Polish.	Portuguese.	Scandinavian. (b)	Slavonic, not specified.	Spanish.	Spanish and English.	Volapuk.	Volapuk and English.	Welsh.	Welsh and English.	
				3		1	4			2	2	49		26				5		1
30	4	6	2		1		14	2	1	22	2	130	2	33	7	2	1	4	1	2
																				3
																				4
														1						5
														1						6
																				7
																				8
							3					2		6						9
2							4				1	2		4	1					10
																				11
														1						12
																				13
																				14
												1								15
2												5								16
																				17
																				18
																				19
																				20
																				21
														1						22
																				23
																				24
																				25
																				26
										2		20								27
8		1					2	1		9		32		1						28
1																				29
																				30
					1															31
				2																32
					1															33
				1								6								34
												10								35
												2								36
2												1							1	37
																				38
																				39
																				40
							1	1						1						41
																				42
																				43
																				44
																				45
																				46
												1				1				47
												2								48
1										3		6								49
												7								50
										2		33								51
																				52
																				53
														1						54
2												2		2	1					55
																				56
																				57
												2								58
												9								59
																				60
																				61
																				62
																				63

d See Indian territory, including Oklahoma.
e Indian territory and Oklahoma combined for 1890 to compare with Indian territory for 1880.

TABLE 4.—COMPARATIVE STATEMENT, NUMBER OF NEWSPAPERS AND PERIODICALS PRINTED

	STATES AND TERRITORIES.	Year.	Total number of publications.	NUMBER OF PUBLICATIONS, CASSIFIED ACCORDING TO LANGUAGE.												
				Armenian.	Bohemian.	Bohemian and English.	Catalan.	Chinese.	Dutch.	English.	Finnish.	French.	French and English.	Gaelic.	Gaelic and English.	German.
64	New Jersey	1880	215							196						19
65		1890	318						1	292		1				24
66	New Mexico	1880	18							14						
67		1890	41							33						
68	New York	1880	1,411		3		1			1,280		10				97
69		1890	1,938	1	4					1,772		5		1	1	111
70	North Carolina	1880	142							142						
71		1890	176							176						
72	North Dakota (a)	1890	112							105			1			1
73	Ohio	1880	774		1					683		1				89
74		1890	1,093		2					982	1					104
75	Oklahoma (b)	1890	30							30						
76	Oregon	1880	74							72						2
77		1890	137							132						3
78	Pennsylvania	1880	973							884						87
79		1890	1,476							1,372		1				87
80	Rhode Island	1880	44							42		1				1
81		1890	72							69		1				1
82	South Carolina	1880	81							80						1
83		1890	109							98						2
84	South Dakota (a)	1890	227			1			1	220						3
85	Tennessee	1880	193							192						1
86		1890	254							250						4
87	Texas	1880	280		1					261						13
88		1890	512		2					494						11
89	Utah	1880	22							22						
90		1890	39							36						1
91	Vermont	1880	82							82						
92		1890	76							76						
93	Virginia	1880	194							189						5
94		1890	231							227						4
95	Washington	1880	29							29						
96		1890	172							163						3
97	West Virginia	1880	109							107						2
98		1890	144							142						2
99	Wisconsin	1880	340		2				1	287						47
100		1890	521		5				3	409						87
101	Wyoming	1880	11							11						
102		1890	31							30						1

a See Dakota.

IN DIFFERENT LANGUAGES, BY STATES AND TERRITORIES: 1880 AND 1890—Continued.

NUMBER OF PUBLICATIONS, CLASSIFIED ACCORDING TO LANGUAGE—continued.																				
German and English.	German and Hebrew.	Hebrew.	Hungarian.	Indian.	Indian and English.	Irish.	Italian.	Italian and English.	Lithuanian.	Polish.	Portuguese.	Scandinavian.	Slavonic, not specified.	Spanish.	Spanish and English.	Volapuk.	Volapuk and English.	Welsh.	Welsh and English.	
																				64
																				65
														4						66
														5	3					67
						1	1				1	4		9				4		68
	4	3	1				5			4	1	7		14				4		69
																				70
																				71
1												4								72
																				73
2										1							1			74
																				75
																				76
												1				1				77
											1							1		78
5		2	1				2		1	1		2	2							79
																				80
												1								81
																				82
																				83
1												1								84
																				85
																				86
														5						87
														3	2					88
																				89
												2								90
																				91
																				92
																				93
																				94
																				95
												6								96
																				97
																				98
												3								99
5										2		10								100
																				101
																				102

b See Indian territory, including Oklahoma.

TABLE 5.—DETAILED STATEMENT, NEWSPAPERS AND

	STATES AND TERRITORIES.	Number of establishments reporting.	CAPITAL.						
			Aggregate.	Value of plant.				Live assets.	
				Total.	Land.	Buildings.	Machinery, tools, and implements.	Total.	Raw materials.
1	The United States	12,362	$126,269,885	$78,760,034	$10,409,896	$11,769,253	$56,580,885	$47,509,851	$5,997,471
2	Alabama	121	666,964	490,906	18,015	41,885	431,006	176,058	19,468
3	Arizona	21	100,598	70,050	1,000	9,850	59,200	30,548	6,162
4	Arkansas	144	500,349	323,240	18,445	24,335	280,460	177,109	36,975
5	California	376	4,345,600	3,193,578	612,282	736,802	1,844,494	1,152,022	145,779
6	Colorado	159	1,221,866	849,442	64,515	139,977	644,950	372,424	72,740
7	Connecticut	123	1,284,375	810,261	56,300	65,900	688,061	474,114	67,601
8	Delaware	26	241,164	169,700	25,700	27,300	116,700	71,404	5,760
9	District of Columbia	13	537,502	372,158	32,000	52,000	288,158	165,344	20,707
10	Florida	83	405,055	324,391	6,415	12,225	305,751	80,664	20,021
11	Georgia	204	1,286,729	1,003,100	144,670	170,025	688,405	283,629	72,335
12	Idaho	29	144,990	85,010	7,510	15,950	61,550	59,980	10,950
13	Illinois	996	9,714,024	5,338,353	173,057	564,567	4,600,729	4,375,671	457,308
14	Indiana	505	2,506,675	1,751,633	123,510	158,650	1,469,473	755,042	126,406
15	Indian territory	8	23,790	15,825			15,825	7,965	1,525
16	Iowa	643	3,501,710	2,337,298	212,305	301,810	1,823,183	1,164,412	187,771
17	Kansas	627	2,313,870	1,622,840	147,900	188,061	1,286,879	691,036	107,311
18	Kentucky	184	2,397,213	1,593,127	189,825	360,595	1,042,707	804,086	130,272
19	Louisiana	116	815,083	475,211	37,475	55,425	382,311	339,872	44,603
20	Maine	105	1,140,152	661,027	17,725	59,650	583,652	479,125	61,621
21	Maryland	113	1,385,133	953,525	188,525	183,500	581,500	431,608	40,225
22	Massachusetts	409	7,531,827	3,562,036	128,200	216,050	3,217,786	3,969,791	218,674
23	Michigan	506	3,436,287	2,232,274	194,175	249,650	1,788,449	1,204,013	167,502
24	Minnesota	341	3,693,259	1,789,318	93,725	286,775	1,408,818	1,903,941	139,406
25	Mississippi	114	297,757	198,495	10,105	19,705	168,685	99,262	10,675
26	Missouri	596	4,578,490	2,771,474	277,490	425,544	2,068,440	1,807,016	227,450
27	Montana	41	509,267	367,758	24,100	47,660	295,998	141,509	28,980
28	Nebraska	412	2,143,488	1,299,101	93,932	155,480	1,049,689	844,387	113,467
29	Nevada	11	73,290	57,200	4,600	10,500	42,100	16,090	2,490
30	New Hampshire	83	754,183	512,460	28,100	76,350	408,010	241,723	31,831
31	New Jersey	224	2,373,213	1,825,350	171,900	231,825	1,421,625	547,863	98,211
32	New Mexico	31	120,068	76,950	5,800	8,450	62,700	43,118	7,325
33	New York	1,263	29,716,028	18,123,764	4,061,676	3,335,248	10,726,840	11,592,264	1,633,750
34	North Carolina	120	449,877	303,532	36,300	43,975	224,257	146,345	20,074
35	North Dakota	78	491,274	351,880	22,825	72,675	256,380	139,394	22,044
36	Ohio	724	7,738,089	4,870,207	430,436	666,225	3,773,546	2,867,882	396,449
37	Oklahoma	15	46,145	39,700	2,750	1,800	35,150	6,445	1,525
38	Oregon	111	653,419	396,535	19,500	32,435	344,600	256,884	40,905
39	Pennsylvania	992	16,070,348	10,315,243	1,906,575	1,592,184	6,816,484	5,755,105	663,773
40	Rhode Island	40	661,944	485,267	81,820	109,200	294,247	176,677	23,672
41	South Carolina	76	438,704	289,025	22,400	47,550	219,075	149,679	12,269
42	South Dakota	149	579,169	410,562	25,735	57,625	327,202	168,607	28,331
43	Tennessee	178	1,708,359	1,170,294	205,788	259,825	704,681	538,065	54,389
44	Texas	391	1,670,937	1,114,316	63,945	156,993	893,378	556,621	72,609
45	Utah	21	537,098	223,568	54,200	24,600	144,768	313,530	105,237
46	Vermont	55	455,393	283,678	21,535	47,900	214,243	171,715	33,491
47	Virginia	157	756,320	442,334	45,795	66,675	329,864	313,986	22,329
48	Washington	125	1,035,182	780,109	94,150	113,057	572,902	255,073	38,702
49	West Virginia	103	438,110	307,900	20,950	36,100	250,850	130,210	15,761
50	Wisconsin	379	2,645,930	1,632,099	183,550	192,725	1,255,824	1,013,831	123,975
51	Wyoming	21	133,642	86,930	6,065	10,965	69,300	46,712	6,575

PERIODICALS, BY STATES AND TERRITORIES: 1890.

CAPITAL—continued.									
Live assets—Continued.		Miscellaneous expenses.							
Stock in process and finished products on hand.	Cash, bills and accounts receivable, and all sundries not elsewhere reported.	Total.	Rent paid for tenancy.	Taxes.	Insurance.	Repairs, ordinary, of buildings and machinery.	Interest paid on cash used in the business.	All sundries not elsewhere reported.	
$5,866,454	$35,645,926	$35,727,039	$3,884,824	$605,687	$638,257	$996,355	$680,127	$28,921,789	1
3,594	152,996	135,654	18,417	3,789	3,807	2,986	4,607	102,048	2
1,840	22,546	19,100	5,640	1,242	706	620	996	9,896	3
13,802	126,332	122,419	23,619	3,579	3,328	4,542	4,932	82,419	4
43,302	962,941	1,118,276	154,557	19,465	20,114	15,934	21,402	886,804	5
22,105	277,579	257,337	38,673	9,648	7,181	8,715	13,220	179,891	6
19,940	386,573	271,730	42,855	7,212	9,487	8,335	7,465	196,376	7
655	64,989	22,776	4,962	653	606	537	780	15,238	8
3,227	141,410	123,440	15,190	2,613	2,326	2,316	100	100,895	9
8,666	51,977	73,332	14,806	2,392	3,102	1,956	1,996	49,080	10
27,931	183,363	300,163	29,660	12,570	7,798	8,296	4,648	237,191	11
3,348	45,682	21,011	3,719	1,407	1,217	1,255	2,133	11,280	12
609,233	3,309,070	3,282,077	421,053	43,509	60,465	72,617	42,105	2,642,328	13
63,437	565,199	540,595	88,456	16,543	13,666	17,415	13,712	390,803	14
605	5,835	3,245	1,450	139	231	115	.....	1,310	15
81,652	894,989	547,460	99,988	20,603	21,269	21,828	24,985	358,787	16
37,726	545,999	348,083	83,349	15,841	12,286	12,006	21,295	203,306	17
154,879	518,935	395,065	41,596	8,548	12,895	12,734	10,402	308,920	18
10,385	284,884	325,820	26,753	6,378	5,753	6,306	2,963	277,667	19
26,515	390,989	214,936	28,787	6,116	7,567	8,669	5,225	188,572	20
63,588	327,795	307,413	48,942	7,159	5,194	17,876	4,886	223,356	21
741,779	3,009,338	3,070,184	293,189	46,697	38,980	38,646	89,330	2,563,342	22
140,533	895,918	701,001	87,428	17,253	20,592	17,460	24,251	534,017	23
552,166	1,212,369	891,956	111,149	12,873	13,843	11,496	35,537	707,058	24
3,187	85,400	45,505	10,540	1,523	2,156	1,997	1,953	27,336	25
125,286	1,454,280	1,043,820	154,766	27,369	26,568	36,904	20,940	777,273	26
6,828	105,701	69,045	15,632	2,972	3,511	4,488	7,813	34,620	27
92,943	638,037	432,539	81,996	10,157	10,962	15,416	20,228	293,780	28
1,200	12,400	14,323	1,744	965	586	960	188	9,880	29
17,196	192,696	114,013	19,361	2,628	3,633	7,515	2,258	78,618	30
55,896	393,756	477,214	72,503	12,148	10,995	11,425	10,713	359,430	31
4,120	31,673	33,405	6,003	1,006	723	1,024	675	23,974	32
1,046,860	8,011,654	11,281,003	968,928	107,373	109,335	393,556	64,176	9,637,635	33
6,466	119,805	89,455	13,779	3,066	2,286	3,056	3,047	64,221	34
12,771	104,579	59,106	11,227	3,225	4,107	3,940	6,093	30,514	35
476,981	1,994,452	1,681,680	191,164	47,696	44,241	49,141	39,242	1,310,196	36
420	4,500	17,736	2,726	20	271	610	260	13,849	37
14,210	201,769	172,662	25,717	3,725	4,871	3,025	7,402	127,922	38
1,109,467	3,981,865	4,753,106	320,819	51,914	69,752	92,332	91,575	4,126,714	39
9,625	143,380	192,815	13,775	3,525	3,829	7,430	8,537	155,719	40
3,258	134,152	83,419	10,004	3,616	2,679	1,103	5,304	60,713	41
12,360	127,916	88,758	21,527	4,686	4,300	4,116	5,164	48,959	42
20,720	462,956	291,840	32,802	9,260	12,464	6,670	8,235	222,409	43
21,906	462,106	444,470	72,663	10,674	11,280	23,647	9,238	316,968	44
54,145	154,148	110,138	18,603	3,149	1,915	3,257	5,648	77,501	45
11,060	127,164	55,691	8,443	1,781	2,688	2,111	3,520	37,148	46
28,437	263,220	173,345	25,344	4,541	4,231	6,291	1,772	131,166	47
12,381	203,990	205,376	25,520	4,502	8,723	6,364	5,400	154,867	48
4,827	109,622	74,888	9,837	2,322	2,315	2,525	1,438	55,946	49
81,184	808,672	574,866	60,389	14,294	16,484	13,987	11,739	457,973	50
1,812	38,325	24,258	4,714	1,321	1,023	805	530	15,865	51

TABLE 5.—DETAILED STATEMENT, NEWSPAPERS AND

	STATES AND TERRITORIES.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES.									
		Aggregates.		Officers or firm members actively engaged in the business or in supervision.				Editors, subeditors, and reporters.			
				Males above 16 years.		Females above 15 years.		Males above 16 years.		Females above 15 years.	
		Average number.	Total wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.
1	The United States	106,095	$68,601,532	10,972	$11,326,208	228	$149,669	10,050	$10,443,351	488	$306,071
2	Alabama	647	371,767	86	77,271	1	600	51	41,970	1	416
3	Arizona	124	83,091	22	20,340			7	6,000		
4	Arkansas	624	322,742	93	72,764	4	1,966	30	23,037	2	300
5	California	3,405	2,800,203	329	401,656	7	6,312	410	447,039	13	5,688
6	Colorado	1,221	1,064,301	142	147,890	5	2,662	135	149,170	5	2,720
7	Connecticut	1,286	868,171	136	162,606			132	119,578	3	2,016
8	Delaware	215	108,150	23	23,550			23	14,710		
9	District of Columbia	497	389,731	15	39,525			69	67,022	2	2,289
10	Florida	515	260,113	62	51,016	5	4,800	31	26,900	6	2,516
11	Georgia	1,415	769,724	165	136,447	1	2,000	126	96,761	7	4,026
12	Idaho	117	80,027	29	22,264	1	416	7	8,020		
13	Illinois	9,502	6,431,079	1,005	1,148,900	32	26,056	922	904,914	35	19,731
14	Indiana	3,251	1,631,819	468	398,720	14	7,093	241	180,119	17	8,260
15	Indian territory	23	9,828	1	300			3	1,800		
16	Iowa	3,576	1,744,480	571	451,866	3	1,920	140	97,440	10	3,960
17	Kansas	2,588	1,132,043	513	332,905	11	3,896	117	74,500	10	3,384
18	Kentucky	1,800	1,106,423	146	185,367	3	1,180	170	141,824	10	4,734
19	Louisiana	937	687,378	90	107,195	2	3,416	120	117,432	14	10,128
20	Maine	1,343	632,159	102	93,336	4	2,795	85	73,339	11	7,154
21	Maryland	1,251	846,819	100	109,044	5	2,924	179	231,701	7	3,432
22	Massachusetts	5,996	4,144,307	388	464,337	11	6,430	603	579,781	57	35,392
23	Michigan	3,668	1,824,744	399	315,438	10	4,200	282	254,304	10	3,776
24	Minnesota	2,630	1,707,637	297	324,689	3	1,380	182	165,669	42	19,602
25	Mississippi	384	158,038	81	51,895	2	650	25	13,364		
26	Missouri	5,291	3,407,446	573	614,131	13	7,174	489	463,401	18	10,800
27	Montana	307	330,862	38	47,690			26	34,381		
28	Nebraska	1,918	1,125,363	337	269,612	4	1,367	120	119,554	4	1,664
29	Nevada	63	58,725	5	5,804			5	4,820		
30	New Hampshire	651	317,764	60	43,426	1	364	44	27,658	2	924
31	New Jersey	2,199	1,365,376	190	235,164	1	780	189	158,178	8	3,650
32	New Mexico	140	88,833	24	17,400	1	416	10	9,700		
33	New York	18,086	14,933,132	1,295	2,013,851	23	18,118	2,340	3,315,476	100	92,767
34	North Carolina	567	236,590	71	40,054			26	20,040	1	300
35	North Dakota	337	203,352	53	44,024	1	500	13	11,464		
36	Ohio	7,292	4,063,564	722	657,550	16	7,480	564	472,148	20	10,006
37	Oklahoma	83	32,131	9	4,340			5	2,608		
38	Oregon	700	556,889	33	89,209	6	5,520	58	69,036	6	3,856
39	Pennsylvania	10,658	6,567,603	828	928,568	9	13,359	1,181	1,086,976	44	28,317
40	Rhode Island	579	374,894	47	52,548			68	61,243	1	624
41	South Carolina	449	237,385	56	41,049			43	35,741		
42	South Dakota	578	301,545	115	76,328	2	936	24	16,170	1	400
43	Tennessee	1,357	827,531	142	132,724	3	1,960	128	122,066	8	5,336
44	Texas	1,995	1,193,550	300	240,067	5	2,820	139	124,381	6	3,864
45	Utah	378	279,277	26	37,206			28	33,520	1	500
46	Vermont	403	208,694	44	39,140	1	300	29	21,670	2	1,050
47	Virginia	899	442,131	133	93,661	1	520	71	54,048		
48	Washington	797	683,827	92	100,201			93	110,657		
49	West Virginia	532	222,052	82	56,114	1	520	29	19,596		
50	Wisconsin	2,728	1,285,724	368	279,156	14	5,590	174	144,559	4	2,480
51	Wyoming	93	82,518	16	18,780	2	1,740	5	6,960		

PERIODICALS, BY STATES AND TERRITORIES: 1890—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.																
Clerks.				Operatives, skilled and unskilled.						Pieceworkers.						
Males above 16 years.		Females above 15 years.		Males above 16 years.		Females above 15 years.		Children.		Males above 16 years.		Females above 15 years.		Children.		
Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	
6,604	$5,371,597	2,316	$929,699	47,442	$26,482,191	7,200	$2,138,021	5,940	$638,013	12,932	$10,034,505	1,899	$778,100	24	$3,207	1
30	26,492	.....	.....	334	184,367	16	4,550	69	7,049	58	28,272	1	780	.....	.....	2
11	5,672	.....	.....	65	43,342	9	4,435	7	582	3	2,720	.....	.....	.....	.....	3
12	9,492	3	1,100	359	185,340	25	6,871	65	8,100	25	12,768	6	1,000	.....	.....	4
254	251,497	16	6,771	1,397	1,061,479	229	86,492	215	23,063	474	469,904	61	40,302	.....	.....	5
62	61,034	4	1,816	651	589,627	53	27,072	89	16,099	71	64,613	4	2,098	.....	.....	6
55	48,086	12	5,128	507	321,460	112	41,808	37	4,955	203	148,286	39	14,248	.....	.....	7
14	5,684	2	572	90	38,692	14	3,003	12	1,722	36	19,817	1	400	.....	.....	8
42	33,024	22	11,181	128	73,223	9	2,376	5	330	190	156,081	15	4,680	.....	.....	9
14	11,430	5	2,700	250	121,152	23	6,192	71	6,967	48	26,940	.....	.....	.....	.....	10
63	41,852	22	10,202	754	395,136	65	16,875	81	7,399	118	56,486	13	2,540	.....	.....	11
1	860	.....	.....	61	44,137	6	1,830	10	1,300	2	1,200	.....	.....	.....	.....	12
538	446,457	252	112,405	4,049	2,361,216	751	259,499	572	60,157	1,253	993,523	84	37,519	9	702	13
110	72,529	31	10,094	1,506	667,613	283	71,058	261	28,992	284	175,291	36	11,450	.....	.....	14
.....	.....	.....	.....	13	6,570	3	784	3	374	.....	.....	.....	.....	.....	.....	15
115	76,685	33	10,824	1,739	811,394	347	83,028	335	30,938	234	161,362	39	14,963	1	100	16
49	28,061	23	7,893	1,229	493,848	233	56,346	223	24,599	150	99,917	28	6,594	2	100	17
87	63,906	34	16,453	882	453,371	86	21,251	102	11,127	275	205,080	5	2,130	.....	.....	18
58	61,120	19	4,658	333	178,535	37	10,620	30	6,347	224	187,567	1	360	.....	.....	19
64	40,504	224	61,624	455	208,261	201	61,432	16	1,767	101	54,326	80	27,621	.....	.....	20
98	73,082	5	1,970	536	194,177	18	4,062	29	4,051	272	221,336	2	1,040	.....	.....	21
463	448,150	260	136,686	2,262	1,338,051	623	246,959	60	8,616	741	632,462	528	247,443	.....	.....	22
157	112,570	38	12,090	1,536	703,771	356	87,644	461	40,191	370	274,253	49	16,507	.....	.....	23
140	129,558	47	21,726	1,275	681,858	162	58,151	131	16,461	320	273,622	31	15,421	.....	.....	24
4	1,970	.....	.....	184	71,282	28	7,263	46	4,065	13	7,041	1	508	.....	.....	25
297	253,775	70	30,095	2,358	1,207,006	347	92,936	233	24,848	827	683,977	66	19,294	.....	.....	26
12	16,551	2	1,350	160	152,713	10	6,444	7	2,096	49	67,096	3	2,541	.....	.....	27
98	65,911	24	11,254	933	541,355	132	41,160	144	17,464	104	49,516	18	6,506	.....	.....	28
2	1,980	.....	.....	26	20,638	2	600	1	120	22	24,763	.....	.....	.....	.....	29
9	7,520	8	3,600	306	152,696	82	25,257	20	2,064	51	27,411	68	26,844	.....	.....	30
70	65,438	147	44,416	1,120	587,299	61	14,478	71	9,051	286	229,072	56	17,850	.....	.....	31
6	5,810	2	460	68	40,716	4	1,820	8	1,208	11	7,999	6	3,304	.....	.....	32
1,999	1,619,956	491	218,100	7,741	5,442,472	907	259,027	640	66,564	2,243	1,765,463	304	120,898	3	440	33
9	4,674	.....	.....	337	131,320	13	2,697	88	14,095	22	13,504	.....	.....	.....	.....	34
7	5,465	3	1,336	177	99,024	31	10,614	13	2,221	39	28,704	.....	.....	.....	.....	35
416	311,920	147	50,024	3,347	1,649,949	617	152,111	307	30,816	1,038	687,104	98	34,456	.....	.....	36
.....	.....	.....	.....	55	23,517	3	620	11	1,046	.....	.....	.....	.....	.....	.....	37
35	41,542	3	1,400	296	217,134	73	27,692	45	5,336	83	86,207	12	9,948	.....	.....	38
729	573,794	280	94,920	4,022	2,486,256	506	146,112	576	58,534	1,419	1,119,259	95	29,643	9	1,865	39
24	19,354	7	2,514	231	150,436	23	8,652	84	10,672	77	63,770	17	5,081	.....	.....	40
20	14,308	.....	.....	244	96,958	5	1,004	22	2,700	58	45,505	1	120	.....	.....	41
17	14,612	3	524	276	148,633	59	15,462	33	3,479	43	23,073	5	1,928	.....	.....	42
89	65,657	22	9,850	624	276,098	79	24,336	54	6,072	190	173,556	18	9,876	.....	.....	43
76	54,052	14	6,542	1,024	545,619	68	21,187	126	15,423	224	175,550	13	4,045	.....	.....	44
28	23,810	1	500	151	109,308	43	13,179	41	6,792	54	52,411	5	1,961	.....	.....	45
12	8,548	8	3,600	160	83,319	53	17,331	20	2,247	30	18,306	35	13,183	.....	.....	46
40	20,754	2	514	483	209,053	12	1,846	85	7,341	71	54,244	1	150	.....	.....	47
42	37,739	1	520	335	252,694	43	17,591	34	4,156	152	157,388	5	2,881	.....	.....	48
17	9,990	2	520	233	95,605	30	7,381	78	6,084	49	25,992	2	250	.....	.....	49
109	78,722	19	6,171	1,183	495,898	234	57,095	259	22,983	318	174,373	46	18,697	.....	.....	50
.....	.....	8	6,096	48	39,064	5	1,188	1	250	7	7,400	1	1,040	.....	.....	51

TABLE 5.—DETAILED STATEMENT, NEWSPAPERS AND

	STATES AND TERRITORIES.	WEEKLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS, FIRM MEMBERS, CLERKS, EDITORS, SUBEDITORS, AND REPORTERS, BUT NOT THOSE EMPLOYED ON PIECEWORK.											
		Males above 16 years.											
		Total number.	Under $5.	$5 and over but under $6.	$6 and over but under $7.	$7 and over but under $8.	$8 and over but under $9.	$9 and over but under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $20.	$20 and over but under $25.	$25 and over.
1	The United States	75,068	7,914	2,663	3,394	3,394	3,718	5,229	9,138	11,043	13,657	6,396	7,522
2	Alabama	501	57	20	30	23	28	81	38	61	78	60	16
3	Arizona	105	2	1	3	10	6	8	9	13	38	13	2
4	Arkansas	494	53	27	33	32	37	62	69	42	102	19	18
5	California	2,390	128	72	53	68	52	75	205	272	613	356	496
6	Colorado	990	27	11	21	12	8	24	59	103	183	224	318
7	Connecticut	880	65	35	57	22	24	35	76	175	238	79	74
8	Delaware	150	25	11	6	14	9	12	27	19	12	9	6
9	District of Columbia	254	14	23	10	18	14	12	20	10	68	15	50
10	Florida	357	44	23	16	7	22	30	63	68	43	24	17
11	Georgia	1,108	138	65	47	56	63	55	144	258	185	53	44
12	Idaho	98	2	4	3	4	6	4	4	14	29	22	6
13	Illinois	6,514	546	211	261	267	340	372	711	1,141	1,228	771	666
14	Indiana	2,325	320	147	164	154	167	245	335	307	338	97	81
15	Indian territory	17	.....	2	.....	.....	1	3	6	5	.....	.....	.....
16	Iowa	2,574	389	182	133	147	102	178	345	455	432	83	68
17	Kansas	1,908	226	162	192	187	187	156	325	232	210	62	29
18	Kentucky	1,285	144	76	95	67	70	70	169	178	243	101	72
19	Louisiana	601	62	26	15	11	23	37	96	76	113	53	89
20	Maine	706	93	46	32	24	62	60	100	111	102	46	27
21	Maryland	913	126	52	34	25	45	45	117	189	141	79	60
22	Massachusetts	3,716	278	165	153	99	160	189	449	604	808	315	496
23	Michigan	2,374	293	107	146	136	159	204	445	334	340	113	111
24	Minnesota	1,894	188	85	73	73	92	106	254	396	332	142	152
25	Mississippi	294	51	38	13	15	21	36	54	34	18	10	4
26	Missouri	3,717	329	177	171	151	214	505	386	537	575	266	316
27	Montana	236	4	2	2	6	1	7	16	12	41	55	90
28	Nebraska	1,488	93	77	86	57	116	101	254	173	261	173	97
29	Nevada	38	2	1	2	2	1	.....	.....	7	13	3	7
30	New Hampshire	419	44	18	29	22	15	29	87	98	53	19	10
31	New Jersey	1,569	200	62	73	58	80	122	180	312	292	101	89
32	New Mexico	108	4	3	3	.....	4	5	22	18	28	15	6
33	New York	13,375	1,060	473	397	501	413	654	1,226	1,775	2,953	1,461	2,402
34	North Carolina	443	94	53	27	33	24	32	65	58	34	15	8
35	North Dakota	250	21	14	11	9	9	23	36	52	51	19	11
36	Ohio	5,049	665	312	272	312	250	409	679	712	860	315	257
37	Oklahoma	69	1	7	8	.....	7	12	21	5	3	5	.....
38	Oregon	472	16	15	9	9	8	11	38	78	114	60	114
39	Pennsylvania	7,660	1,117	384	384	306	382	626	1,005	1,051	1,176	504	635
40	Rhode Island	370	17	8	8	8	6	27	35	67	118	31	45
41	South Carolina	303	73	30	19	18	13	32	56	40	62	10	10
42	South Dakota	432	29	22	20	25	37	56	70	69	56	32	16
43	Tennessee	983	150	62	52	59	67	41	133	165	114	55	95
44	Texas	1,539	152	83	65	63	67	85	269	255	310	117	73
45	Utah	233	22	7	5	4	7	4	21	23	54	42	44
46	Vermont	254	17	18	13	21	6	33	41	56	31	10	8
47	Virginia	727	117	73	48	55	51	61	89	70	98	30	35
48	Washington	562	21	17	15	7	14	19	34	64	138	141	92
49	West Virginia	361	72	26	32	29	20	29	38	34	50	19	12
50	Wisconsin	1,834	322	127	110	97	141	138	214	228	260	121	76
51	Wyoming	69	1	1	3	1	.....	9	.....	2	12	28	12

PERIODICALS, BY STATES AND TERRITORIES: 1890—Continued.

WEEKLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS, FIRM MEMBERS, CLERKS, EDITORS, SUBEDITORS, AND REPORTERS, BUT NOT THOSE EMPLOYED ON PIECEWORK—continued.																	
Females above 15 years.												Children.					
Total number.	Under $5.	$5 and over but under $6.	$6 and over but under $7.	$7 and over but under $8.	$8 and over but under $9.	$9 and over but under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $20.	$20 and over but under $25.	$25 and over.	Total number.	Under $5.	$5 and over but under $6.	$6 and over but under $7.	$7 and over.	
10,232	3,137	1,692	1,560	914	688	595	762	457	288	88	51	5,940	5,731	144	34	31	1
18	6	3	4	1	1		2	1				69	48	21			2
9	2				4		2			1		7	7				3
34	12	6	4	4	3		3		2			65	63	2			4
265	52	38	40	26	19	23	24	23	8	11	1	215	202	9	3	1	5
67	3	4	4	9	10	4	10	11	11	1		89	72	7	9	1	6
127	20	24	17	17	7	14	18	7	2	1		37	36			1	7
16	10		4	1	1							12	12				8
33	4	6	2	3		1	10	4	2		1	5	5				9
39	12	8	1	2	2	3	4	3		4		71	70	1			10
95	23	34	14		5	2	12	1	2		2	81	79	2			11
7	2	1	1		1	2						10	9	1			12
1,070	207	152	146	116	85	94	157	65	28	12	8	572	570	2			13
345	174	58	28	25	18	12	19	4	7			261	255	3	3		14
3	2			1								3	3				15
393	206	73	47	19	20	13	9	2	4			335	329	3	1	2	16
277	127	54	32	19	16	10	13	3	3			223	216	7			17
133	45	37	13	8	3	4	9	7	3	4		102	96	4	2		18
72	10	7	26	6		4	6	3	8	1	1	39	37	1	1		19
440	137	129	90	40	16	3	14	2	9			16	16				20
35	13	5	1	7		1	2	5		1		29	28	1			21
951	110	73	137	130	142	83	117	100	46	9	4	60	58	1	1		22
414	160	121	62	25	26	4	7	8	1			461	458	3			23
254	50	30	23	47	14	47	19	16	4	2	2	131	125	4		2	24
30	15	3	5	2	3	1		1				46	46				25
448	179	88	28	36	24	26	30	17	15	2	3	233	224	8	1		26
12					1		5	3	3			7	2	1	1	3	27
164	52	21	19	17	18	7	13	9	7	1		144	142	2			28
2		2										1	1				29
93	24	14	16	12	5	13	7	2				26	26				30
217	102	46	48	8	2	2	5	1	3			71	70		1		31
7	1	1		2	1	1	1					8	8				32
1,521	407	200	242	139	98	110	119	98	66	20	22	640	620	18	2		33
14	10	2	1								1	88	72	1		15	34
35	8	2	11	2	4	3	4	1				13	13				35
800	322	184	146	51	28	25	16	15	11	1	1	307	304	2		1	36
3	1	2										11	10			1	37
88	17	8	6	17	8	6	10	6	7		3	45	43	1		1	38
899	316	130	224	60	55	37	37	16	12	11	1	576	542	30	4		39
31	3	2	3	11	7	1	2	1	1			84	84				40
5	4	1										22	21	1			41
65	24	16	9	7	3	3	1	2				33	31	2			42
112	11	30	33	2	6	2	19	4	5			54	53		1		43
93	28	9	11	4	6	11	9	7	5	2	1	126	124	1	1		44
45	21	10	4	2	2	2	4					41	36	3	2		45
64	11	10	12	8	8	11	4					20	20				46
15	11	1		1			2					85	85				47
44	7	2	7	6	2	3	7	4	4	2		34	31	1		2	48
42	31	6	1	3			1					78	78				49
271	141	39	38	18	14	5	9	3	3	1		259	257		1	1	50
15	4					2		2	6	1		1		1			51

TABLE 5.—DETAILED STATEMENT, NEWSPAPERS AND

	STATES AND TERRITORIES.	MATERIALS USED.								
		Aggregate cost.	Paper used on newspapers and periodicals.							
			Totals.		Daily.		Weekly, semiweekly, and triweekly.		Monthly, quarterly, and all other.	
			Pounds.	Cost.	Pounds.	Cost.	Pounds.	Cost.	Pounds.	Cost.
1	The United States	$38,955,322	552,876,161	$23,905,384	326,620,576	$11,930,793	170,260,470	$8,765,517	55,995,115	$3,209,074
2	Alabama	159,555	2,007,288	95,792	1,151,611	47,751	835,521	46,554	20,156	1,487
3	Arizona	26,557	189,620	10,677	119,710	5,841	69,910	4,836	.....	.....
4	Arkansas	181,126	1,083,505	62,380	367,236	16,242	701,419	44,257	14,750	1,881
5	California	1,426,629	20,229,809	994,082	15,720,848	699,031	4,072,126	261,302	427,835	33,749
6	Colorado	439,558	4,984,842	268,517	4,279,167	213,295	644,595	51,413	61,080	3,809
7	Connecticut	339,698	4,676,762	194,580	3,379,714	131,667	986,740	46,176	310,308	16,737
8	Delaware	37,503	580,218	22,259	433,600	14,930	139,308	6,835	7,310	494
9	District of Columbia	300,794	5,357,486	248,043	2,613,567	95,970	2,568,854	141,695	175,065	10,378
10	Florida	110,292	1,036,382	48,903	581,325	24,101	451,889	24,534	3,168	268
11	Georgia	537,271	7,028,445	318,915	3,550,135	144,149	2,666,542	123,033	811,768	51,733
12	Idaho	28,237	141,176	9,592	48,800	2,765	92,376	6,827	.....	.....
13	Illinois	4,000,623	60,907,589	2,627,842	37,739,620	1,358,813	17,988,060	940,885	5,179,909	328,144
14	Indiana	774,429	8,619,064	405,424	4,224,821	169,097	3,584,895	186,003	809,348	50,324
15	Indian territory	6,811	43,766	3,166	2,730	136	41,036	3,030	.....	.....
16	Iowa	863,764	7,809,310	385,858	3,242,350	135,133	4,387,406	238,642	179,554	12,083
17	Kansas	556,941	5,276,496	270,700	2,532,989	109,096	2,674,719	157,133	68,788	4,471
18	Kentucky	481,713	5,780,580	222,801	3,188,358	104,973	2,516,379	112,883	75,848	4,945
19	Louisiana	288,846	3,906,224	166,307	2,920,032	115,021	923,902	47,062	62,290	4,224
20	Maine	367,256	5,779,649	221,571	1,165,574	49,567	1,162,775	60,683	3,451,300	111,321
21	Maryland	431,560	6,477,706	292,411	4,998,834	213,706	1,367,612	71,684	111,260	7,021
22	Massachusetts	2,902,340	34,734,860	1,654,770	19,294,602	686,604	11,330,855	734,650	4,109,403	233,516
23	Michigan	915,521	11,680,577	481,459	6,299,294	218,634	4,812,430	230,176	568,853	32,649
24	Minnesota	771,151	10,393,158	444,973	6,205,498	230,786	3,060,510	159,954	927,150	54,233
25	Mississippi	71,759	493,593	20,236	124,286	5,075	356,852	23,147	12,455	1,014
26	Missouri	1,708,128	27,462,453	1,137,348	18,654,621	678,017	7,705,705	390,823	1,102,127	68,508
27	Montana	101,519	783,627	43,860	547,623	28,344	232,804	15,218	3,200	298
28	Nebraska	569,920	5,583,456	263,412	3,193,843	125,828	2,262,277	129,230	127,336	8,354
29	Nevada	15,227	158,962	7,982	139,579	6,668	19,383	1,314	.....	.....
30	New Hampshire	190,829	1,911,461	81,469	916,101	34,269	972,472	45,240	22,888	1,960
31	New Jersey	566,188	6,447,571	276,661	3,709,505	148,314	1,707,501	86,088	1,030,565	42,259
32	New Mexico	34,577	160,834	11,086	96,730	6,238	63,804	4,813	300	35
33	New York	9,050,150	165,413,361	6,841,425	94,075,399	3,176,472	47,485,425	2,263,822	23,852,537	1,401,131
34	North Carolina	116,750	1,111,101	53,174	475,460	19,877	622,408	32,261	13,233	1,036
35	North Dakota	112,769	510,604	28,640	187,100	8,837	313,564	19,103	9,940	700
36	Ohio	2,404,807	29,823,811	1,281,068	15,776,259	583,123	10,715,912	517,014	3,331,640	180,931
37	Oklahoma	14,398	98,445	5,532	66,317	3,035	31,768	2,449	360	48
38	Oregon	209,813	2,150,770	121,573	1,250,824	62,453	836,720	55,655	63,226	3,465
39	Pennsylvania	4,448,814	71,130,406	2,827,670	46,727,701	1,593,436	16,726,551	778,157	7,676,154	456,077
40	Rhode Island	187,758	3,135,927	116,855	2,578,150	91,331	542,167	24,570	15,610	954
41	South Carolina	74,755	1,007,108	47,309	557,730	20,775	445,778	26,306	3,600	228
42	South Dakota	124,528	813,714	49,162	290,832	15,153	473,662	30,025	49,220	3,084
43	Tennessee	368,500	5,185,720	222,283	2,772,684	95,783	2,028,696	103,089	384,340	23,411
44	Texas	514,635	5,345,193	261,291	2,709,270	112,269	2,502,933	139,650	132,990	9,372
45	Utah	113,953	1,206,050	67,687	785,530	41,689	398,400	19,687	82,120	6,311
46	Vermont	120,838	996,377	56,817	247,000	9,460	527,262	20,304	222,115	12,053
47	Virginia	173,334	1,977,387	92,898	1,115,320	44,549	778,027	43,343	84,040	5,006
48	Washington	234,127	2,615,931	125,756	1,877,740	82,422	695,471	39,013	42,720	3,421
49	West Virginia	114,765	1,080,543	51,088	614,775	24,314	460,904	26,360	4,864	414
50	Wisconsin	734,777	7,574,249	348,906	2,962,567	120,560	4,259,290	212,818	352,392	15,528
51	Wyoming	29,529	172,995	10,165	98,120	5,194	74,875	4,971	.....	.....

PERIODICALS, BY STATES AND TERRITORIES: 1890—Continued.

MATERIALS USED—continued.								VALUE OF PRODUCTS.					
Paper used in book and job printing.		Ink.		Rent of power and heat.	Fuel.	Office supplies.	All other materials.	Total.	Advertising.	Subscriptions and sales.	Book and job printing.	All other products.	
Pounds.	Cost.	Pounds.	Cost.	Cost.	Cost.	Cost.	Cost.						
118,053,331	$9,984,352	8,496,697	$1,428,921	$200,677	$984,426	$1,033,855	$1,417,707	$179,859,750	$71,243,361	$72,343,087	$32,812,113	$3,461,189	1
475,303	38,995	40,362	6,757	1,970	3,366	10,647	2,028	809,577	365,654	332,460	110,573	800	2
125,950	12,595	7,200	1,549	160	531	695	350	154,590	59,680	54,950	39,310	650	3
969,400	97,150	28,263	6,053	606	4,789	7,654	2,500	737,588	232,376	228,885	217,652	58,675	4
2,848,750	258,216	504,650	49,150	8,622	43,887	35,452	37,220	6,500,445	3,099,453	2,496,152	809,772	95,068	5
1,105,028	120,337	51,841	11,540	547	16,293	17,594	4,790	2,211,057	1,125,594	678,746	382,065	24,712	6
909,661	90,562	79,844	15,757	3,915	11,877	10,163	12,844	1,775,664	766,517	723,590	275,289	10,268	7
95,180	9,718	10,755	1,529	268	863	1,741	1,125	202,496	105,316	64,330	29,175	3,675	8
121,846	11,973	72,891	8,983	2,140	3,706	13,676	12,273	1,173,567	582,918	553,865	35,184	1,600	9
472,745	46,718	17,163	4,771	681	3,244	5,395	580	524,108	188,589	185,299	145,795	4,425	10
1,513,272	143,764	145,142	26,993	5,356	16,931	18,521	6,791	2,078,024	838,034	795,252	420,373	24,365	11
132,570	13,047	5,204	1,419	125	1,078	2,490	486	160,783	67,060	49,980	40,589	3,154	12
11,998,547	925,994	521,760	114,698	17,000	76,924	114,692	123,473	17,348,845	7,072,055	6,453,618	3,328,026	495,146	13
3,430,722	279,870	128,515	31,616	5,197	22,710	17,765	11,847	3,589,513	1,413,047	1,371,040	760,457	44,969	14
28,500	2,750	935	245	.....	335	150	165	26,912	9,360	8,930	8,822	300	15
3,590,096	358,239	223,491	32,911	6,836	37,144	29,083	13,693	3,818,623	1,371,817	1,298,876	1,039,211	108,719	16
2,177,170	202,762	99,317	22,399	6,931	22,466	19,410	12,273	2,514,740	1,007,019	874,229	591,430	42,071	17
1,937,693	174,490	131,790	26,178	3,144	19,031	8,494	27,575	2,552,701	953,254	878,231	570,234	150,982	18
933,785	90,607	112,361	9,550	3,214	5,913	7,807	5,448	1,547,951	717,586	503,419	258,976	7,970	19
996,620	92,352	78,666	16,567	4,730	11,773	10,849	9,414	1,719,477	575,122	830,028	205,844	18,483	20
877,210	85,834	62,636	15,123	1,781	16,224	11,123	9,064	2,004,724	1,039,291	700,414	262,341	2,678	21
10,253,090	878,783	344,386	70,701	18,435	51,712	49,191	178,748	12,019,706	3,979,820	4,579,100	3,081,329	388,457	22
3,428,963	316,240	138,965	31,654	6,002	37,948	20,421	21,707	4,350,048	1,711,309	1,562,780	942,902	133,057	23
2,256,790	209,426	122,343	24,043	10,255	20,376	31,066	31,012	4,157,026	1,639,136	1,514,469	767,513	235,908	24
324,065	33,612	14,868	3,263	817	1,477	2,475	879	384,797	139,576	139,449	102,322	3,450	25
5,282,081	357,858	260,834	53,828	5,135	44,139	47,188	62,632	7,920,887	3,465,701	3,360,419	985,182	109,585	26
406,260	41,376	24,851	5,453	1,210	3,010	4,430	2,180	569,226	227,865	199,879	137,702	3,780	27
2,118,905	197,829	99,852	19,353	3,334	24,990	28,122	32,880	2,676,183	1,091,110	916,880	587,114	81,079	28
43,750	4,425	2,466	850	.....	1,085	475	410	106,497	51,835	41,374	13,288	.....	29
1,036,527	87,443	27,839	6,489	2,005	6,817	3,549	3,057	805,751	263,253	281,533	254,160	6,805	30
2,278,456	220,407	95,066	20,154	3,554	18,920	10,780	15,712	2,965,362	1,201,280	1,053,011	695,463	35,608	31
154,742	15,550	5,817	2,261	.....	738	1,672	3,270	206,681	78,230	74,250	30,812	23,389	32
22,268,042	1,647,025	2,866,334	399,738	33,926	175,048	206,830	346,158	44,393,071	17,861,315	19,981,507	6,156,922	393,327	33
577,130	46,951	23,945	4,631	194	4,363	4,466	2,971	505,635	211,733	228,977	146,952	7,973	34
650,550	65,274	21,213	3,526	150	7,258	4,447	3,465	503,782	179,216	128,176	191,424	4,966	35
9,230,149	813,539	544,802	99,583	12,886	66,999	57,515	73,217	10,928,510	3,850,306	4,509,809	2,345,084	223,311	36
72,500	6,949	2,805	590	.....	741	466	120	72,905	26,300	19,195	27,410	.....	37
644,945	56,220	51,262	15,571	985	7,455	5,859	2,141	1,130,762	544,328	407,499	174,698	4,237	38
12,712,938	1,008,545	941,791	156,040	14,960	91,885	113,628	236,086	20,536,538	7,345,234	9,035,348	3,728,535	427,421	39
486,460	45,132	40,744	7,379	627	7,758	6,986	3,021	900,283	443,901	283,130	171,223	2,020	40
158,805	16,720	18,409	2,985	.....	3,207	2,687	1,847	518,927	212,081	233,580	54,082	19,184	41
561,622	56,234	19,173	5,076	50	6,965	4,805	2,236	627,828	249,433	200,982	165,541	11,872	42
1,047,195	98,685	87,610	14,996	995	10,447	15,306	5,788	1,832,228	737,741	742,026	295,708	56,753	43
1,811,615	181,333	141,210	22,630	2,030	17,109	20,469	9,773	2,757,522	1,263,338	949,652	533,221	11,311	44
316,250	33,825	18,634	3,449	1,170	3,382	2,380	2,060	501,805	271,770	211,785	94,300	13,950	45
422,568	44,035	18,995	4,100	1,015	5,125	4,043	11,703	461,796	141,027	181,133	135,801	3,745	46
559,040	57,326	37,913	6,138	1,715	5,824	4,237	5,196	1,008,150	424,255	393,818	186,047	4,030	47
696,270	79,046	44,801	8,038	1,280	9,186	6,433	4,388	1,400,064	759,784	389,501	235,816	14,963	48
477,575	48,408	18,394	4,095	1,110	3,029	4,990	2,045	537,362	188,351	200,906	138,355	9,750	49
2,894,450	246,264	131,909	26,631	3,186	26,882	24,665	58,243	3,256,897	1,015,423	1,339,402	773,114	128,958	50
140,350	13,910	6,650	1,888	344	1,526	873	823	191,227	88,028	61,214	39,385	2,600	51

TABLE 6.—PERIODS OF ISSUE AND CHARACTER OF PUBLICATION,

	STATES AND TERRITORIES.	NUMBER OF PUBLICATIONS IN EXISTENCE DURING THE CENSUS YEAR.											
		Total.	Periods of issue.										
			Daily.					Weekly.	Semi-weekly.	Tri-weekly.	Monthly.	Quarterly.	All other.
			Total.	Morning.	Evening.	6 days per week.	7 days per week.						
1	The United States	17,616	1,731	599	1,132	1,465	266	12,721	214	40	2,247	271	302
2	Alabama	177	16	9	7	12	4	143	1	.....	11	2	4
3	Arizona	35	9	6	3	7	2	26	.....	.....	.....	.....	.....
4	Arkansas	193	14	4	10	13	1	168	2	.....	8	.....	1
5	California	555	96	45	51	85	11	380	12	2	54	1	10
6	Colorado	257	28	11	17	22	6	207	3	1	17	.....	1
7	Connecticut	180	35	12	23	33	2	111	2	1	25	1	5
8	Delaware	41	5	2	3	4	1	31	.....	.....	5	.....	.....
9	District of Columbia	48	4	2	2	2	2	29	.....	.....	11	2	2
10	Florida	122	14	6	8	10	4	101	.....	2	3	.....	2
11	Georgia	279	24	16	8	16	8	210	1	.....	39	1	4
12	Idaho	48	3	2	1	3	.....	43	2	.....	.....	.....	.....
13	Illinois	1,416	125	44	81	102	23	968	21	2	225	33	42
14	Indiana	680	97	18	79	83	14	489	3	.....	74	6	11
15	Indian territory	13	1	1	.....	1	.....	12	.....	.....	.....	.....	.....
16	Iowa	804	49	18	31	41	8	675	15	2	52	4	7
17	Kansas	786	45	12	33	45	.....	701	3	.....	29	1	7
18	Kentucky	270	27	12	15	19	8	208	8	1	19	.....	7
19	Louisiana	173	14	8	6	8	6	140	1	.....	13	1	4
20	Maine	172	17	6	11	17	.....	101	2	.....	44	3	5
21	Maryland	170	13	9	4	9	4	128	.....	.....	18	5	6
22	Massachusetts	668	60	12	48	52	8	373	7	.....	168	37	23
23	Michigan	657	53	12	41	43	10	522	5	2	60	1	14
24	Minnesota	445	30	11	19	23	7	355	1	.....	49	2	8
25	Mississippi	161	7	3	4	5	2	139	.....	3	9	.....	3
26	Missouri	803	83	28	55	67	16	585	7	2	88	13	25
27	Montana	61	10	4	6	8	2	42	2	1	4	.....	2
28	Nebraska	550	37	9	28	30	7	480	2	.....	17	.....	8
29	Nevada	25	10	3	7	10	.....	15	.....	.....	.....	.....	.....
30	New Hampshire	127	20	4	16	18	2	90	4	.....	12	.....	1
31	New Jersey	318	48	16	32	47	1	231	1	2	27	4	5
32	New Mexico	41	4	1	3	3	1	36	.....	.....	.....	.....	1
33	New York	1,938	168	66	102	133	35	1,075	34	4	517	66	74
34	North Carolina	176	21	9	12	21	.....	135	3	.....	9	3	5
35	North Dakota	112	7	3	4	6	1	98	2	.....	5	.....	.....
36	Ohio	1,093	125	28	97	109	16	738	19	7	151	25	28
37	Oklahoma	30	7	3	4	7	.....	22	.....	.....	1	.....	.....
38	Oregon	137	16	7	9	15	1	109	1	.....	10	.....	1
39	Pennsylvania	1,476	164	52	112	146	18	901	14	3	305	43	46
40	Rhode Island	72	10	3	7	7	3	42	2	1	15	1	1
41	South Carolina	100	6	4	2	2	4	85	2	1	3	2	1
42	South Dakota	227	21	8	13	20	1	189	3	.....	13	.....	1
43	Tennessee	254	19	8	11	12	7	196	2	.....	27	6	4
44	Texas	512	44	15	29	39	5	433	6	1	26	1	1
45	Utah	39	9	4	5	8	1	10	9	.....	8	.....	3
46	Vermont	76	5	2	3	4	1	60	.....	.....	11	.....	.....
47	Virginia	231	23	12	11	20	3	167	7	2	26	4	2
48	Washington	172	23	9	14	18	5	141	.....	.....	7	.....	1
49	West Virginia	144	11	4	7	10	1	124	1	.....	6	.....	2
50	Wisconsin	521	49	14	35	45	4	426	3	.....	26	3	14
51	Wyoming	31	5	2	3	5	.....	25	1	.....	.....	.....	.....

NEWSPAPERS AND PERIODICALS, BY STATES AND TERRITORIES: 1890.

NUMBER OF PUBLICATIONS IN EXISTENCE DURING THE CENSUS YEAR—continued.															
Character of publication.															
News, politics, and family reading.	Religion.	Agricultural, horticultural, dairy, and stock raising.	Commerce, finance, insurance, and railroads.	Trade.	General literature, including magazines.	Sunday newspapers.	Medicine and surgery.	Law.	Science and mechanics.	Freemasonry, Odd Fellowship, and temperance.	Education and history.	Society, art, music, and fashion.	College and school periodicals.	Miscellaneous.	
13,147	1,182	312	287	491	387	173	187	51	123	277	166	198	230	405	1
149	14	4	.....	1	1	2	1	.....	2	1	1	.....	1	.....	2
31	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3
176	8	1	.....	.....	.....	.....	1	.....	1	3	.....	.....	2	1	4
428	20	14	13	22	10	3	5	1	3	9	3	3	2	19	5
218	6	3	5	5	3	1	2	.....	3	4	1	2	.....	4	6
133	11	5	1	3	8	4	1	.....	3	1	2	1	6	1	7
31	2	1	.....	.....	.....	2	.....	.....	.....	.....	.....	1	2	2	8
20	1	1	3	1	.....	5	.....	3	4	3	1	1	.....	5	9
105	4	4	1	3	.....	.....	.....	.....	.....	1	2	1	.....	1	10
222	14	5	2	3	3	2	6	.....	2	1	5	3	6	5	11
47	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
950	114	31	31	80	35	9	19	5	20	23	9	20	10	00	13
553	32	22	5	13	1	10	7	.....	2	9	3	2	11	10	14
11	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	15
707	31	7	6	2	3	1	2	.....	.....	15	7	4	10	9	16
724	11	9	3	2	1	.....	1	.....	.....	7	4	4	10	10	17
218	20	4	3	6	1	4	3	1	.....	1	2	.....	5	2	18
127	11	6	6	2	.....	1	2	.....	1	2	.....	.....	3	12	19
112	8	7	1	1	24	2	.....	.....	.....	4	4	3	4	2	20
129	11	4	3	3	2	1	3	.....	2	1	2	1	1	7	21
353	86	15	15	23	42	8	7	2	14	19	15	15	18	36	22
542	39	10	3	6	7	7	7	1	1	11	5	3	9	6	23
355	22	7	6	8	10	4	2	2	3	6	3	4	5	8	24
143	8	4	.....	.....	1	.....	.....	.....	.....	1	2	.....	2	.....	25
593	63	16	22	31	9	3	19	4	4	6	7	7	6	13	26
50	3	5	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	27
510	5	8	2	6	2	1	3	.....	.....	3	1	2	3	4	28
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
110	5	.....	.....	1	6	.....	.....	.....	.....	1	1	1	1	1	30
260	13	1	1	2	5	8	.....	4	1	10	2	3	4	4	31
38	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	32
965	181	30	94	165	124	27	46	12	41	44	32	77	23	77	33
147	16	3	1	1	1	.....	1	.....	.....	.....	1	.....	3	2	34
105	2	1	.....	.....	.....	.....	.....	.....	.....	1	1	.....	1	1	35
790	109	16	12	17	21	19	12	3	3	24	13	9	20	25	36
29	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	37
116	6	2	2	1	.....	2	.....	.....	.....	1	3	.....	1	3	38
922	198	18	28	55	38	23	25	12	10	39	15	23	26	44	39
46	4	.....	2	2	3	4	.....	.....	.....	6	2	.....	3	.....	40
87	9	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	1	.....	41
212	4	1	.....	1	1	.....	.....	.....	.....	.....	4	.....	4	.....	42
193	31	2	3	4	1	1	4	.....	1	2	2	1	7	2	43
447	12	9	1	7	4	5	4	.....	.....	4	1	2	4	12	44
22	3	4	1	2	3	.....	.....	.....	.....	.....	1	.....	.....	3	45
63	3	.....	.....	1	4	.....	1	.....	.....	1	1	.....	2	.....	46
177	20	5	5	1	2	.....	3	1	.....	2	2	3	8	2	47
155	2	3	4	2	.....	1	.....	.....	.....	.....	1	.....	1	3	48
127	4	1	.....	3	1	2	.....	.....	.....	3	2	.....	1	.....	49
444	13	17	2	3	9	9	.....	.....	2	8	3	2	4	5	50
30	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51

TABLE 6.—PERIODS OF ISSUE AND CHARACTER OF PUBLICATION,

	STATES AND TERRITORIES.	NUMBER OF PUBLICATIONS REPORTING.											
		Total.	Periods of issue.										
			Daily.					Weekly.	Semi-weekly.	Tri-weekly.	Monthly.	Quarterly.	All other.
			Total.	Morning.	Evening.	6 days per week.	7 days per week.						
1	The United States	14,901	1,610	559	1,051	1,353	257	10,814	194	34	1,734	225	290
2	Alabama	136	14	8	6	10	4	108	1	.....	9	2	2
3	Arizona	29	8	6	2	6	2	21	.....	.....	.....	.....	.....
4	Arkansas	164	14	4	10	13	1	142	.....	.....	7	.....	1
5	California	455	87	42	45	76	11	311	11	2	37	1	6
6	Colorado	186	23	11	12	17	6	153	3	1	6	.....	.....
7	Connecticut	156	34	12	22	32	2	95	2	.....	20	1	4
8	Delaware	32	5	2	3	4	1	23	.....	.....	4	.....	.....
9	District of Columbia	17	4	2	2	2	2	11	.....	.....	2	.....	.....
10	Florida	97	12	4	8	9	3	80	.....	2	1	.....	2
11	Georgia	230	19	11	8	11	8	177	1	.....	29	1	3
12	Idaho	33	3	2	1	3	.....	28	2	.....	.....	.....	.....
13	Illinois	1,241	121	44	77	98	23	858	20	2	182	29	29
14	Indiana	620	92	17	75	78	14	448	2	.....	61	6	11
15	Indian territory	9	1	1	.....	1	.....	8	.....	.....	.....	.....	.....
16	Iowa	703	46	18	28	38	8	593	14	2	30	4	5
17	Kansas	693	43	12	31	43	.....	621	3	.....	22	1	3
18	Kentucky	218	25	12	13	17	8	165	7	1	13	.....	7
19	Louisiana	129	12	6	6	6	6	99	1	.....	13	1	3
20	Maine	146	15	5	10	15	.....	88	1	.....	36	2	4
21	Maryland	124	11	9	2	7	4	102	.....	.....	6	2	3
22	Massachusetts	568	56	12	44	48	8	336	7	.....	123	31	15
23	Michigan	589	52	12	40	42	10	472	5	1	49	1	9
24	Minnesota	392	30	11	19	23	7	311	1	.....	42	2	6
25	Mississippi	119	6	2	4	4	2	102	.....	1	7	.....	3
26	Missouri	707	81	27	54	65	16	516	7	2	73	9	10
27	Montana	52	9	3	6	7	2	37	1	1	3	.....	1
28	Nebraska	446	31	6	25	25	6	395	2	.....	11	.....	7
29	Nevada	15	6	3	3	6	.....	9	.....	.....	.....	.....	.....
30	New Hampshire	111	16	3	13	14	2	83	2	.....	10	.....	.....
31	New Jersey	263	47	15	32	46	1	186	1	2	21	3	3
32	New Mexico	34	4	1	3	3	1	29	.....	.....	.....	.....	1
33	New York	1,627	162	64	98	129	33	927	31	4	395	40	59
34	North Carolina	135	20	9	11	20	.....	102	3	.....	5	3	2
35	North Dakota	87	7	3	4	6	1	74	2	.....	4	.....	.....
36	Ohio	932	121	27	94	106	15	635	19	7	106	25	19
37	Oklahoma	21	6	3	3	6	.....	14	.....	.....	1	.....	.....
38	Oregon	126	16	7	9	15	1	100	1	.....	8	.....	1
39	Pennsylvania	1,271	143	45	98	127	16	771	13	3	266	37	38
40	Rhode Island	54	9	3	6	7	2	30	1	.....	13	1	.....
41	South Carolina	84	6	4	2	2	4	73	2	1	.....	1	1
42	South Dakota	174	19	7	12	18	1	141	3	.....	10	.....	1
43	Tennessee	219	18	8	10	11	7	169	2	.....	20	6	4
44	Texas	437	42	13	29	37	5	367	6	1	19	1	1
45	Utah	28	9	4	5	8	1	6	7	.....	4	.....	2
46	Vermont	70	5	2	3	4	1	58	.....	.....	7	.....	.....
47	Virginia	185	21	11	10	18	3	134	6	1	18	3	2
48	Washington	144	18	6	12	14	4	118	.....	.....	7	.....	1
49	West Virginia	112	9	4	5	8	1	95	1	.....	5	.....	2
50	Wisconsin	456	47	14	33	43	4	373	3	.....	20	3	10
51	Wyoming	25	5	2	3	5	.....	20	.....	.....	.....	.....	.....

NEWSPAPERS AND PERIODICALS, BY STATES AND TERRITORIES: 1890—Continued.

NUMBER OF PUBLICATIONS REPORTING—continued.															
Character of publication.															
News, politics, and family reading.	Religion.	Agricultural, horticultural, dairy, and stock raising.	Commerce, finance, insurance, and railroads.	Trade.	General literature, including magazines.	Sunday newspapers.	Medicine and surgery.	Law.	Science and mechanics.	Freemasonry, Odd Fellowship, and temperance.	Education and history.	Society, art, music, and fashion.	College and school periodicals.	Miscellaneous.	
11,326	1,025	263	239	432	291	143	123	47	83	216	119	152	137	305	1
110	14	4	.....	1	1	2	1	.....	2	1	.....	.....	.....	.....	2
26	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
150	6	1	.....	.....	.....	.....	1	.....	1	3	.....	.....	2	.....	4
356	15	11	10	22	7	3	3	1	2	6	3	2	.....	14	5
174	3	2	1	1	.....	1	.....	.....	1	1	.....	1	.....	1	6
119	11	5	1	3	5	3	1	.....	1	1	2	.....	3	1	7
24	2	1	.....	.....	.....	1	.....	.....	.....	.....	.....	1	1	2	8
10	1	.....	.....	.....	.....	1	.....	3	.....	.....	.....	.....	.....	2	9
83	4	4	1	3	.....	.....	.....	.....	.....	.....	.....	1	.....	1	10
185	13	2	2	3	2	1	5	.....	2	1	5	2	5	2	11
32	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
862	102	30	27	72	18	5	12	5	17	18	7	10	3	44	13
508	27	20	5	13	1	10	6	.....	1	9	2	2	7	9	14
7	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	15
630	26	7	5	1	3	.....	.....	.....	.....	9	4	2	8	8	16
647	9	8	1	1	.....	.....	1	.....	.....	5	4	4	6	7	17
177	15	4	2	6	1	4	1	1	.....	1	1	.....	3	2	18
86	10	5	6	2	.....	1	2	.....	.....	2	.....	.....	3	12	19
97	6	5	.....	.....	21	2	.....	.....	.....	4	4	3	3	1	20
106	5	2	1	2	1	1	2	.....	.....	1	.....	1	1	1	21
326	77	14	12	18	27	5	2	1	11	15	13	12	8	27	22
495	36	8	2	3	6	7	4	.....	1	9	4	2	6	6	23
316	19	5	5	6	8	4	1	2	3	5	3	3	5	7	24
105	7	3	.....	.....	1	.....	.....	.....	.....	1	2	.....	.....	.....	25
526	58	15	20	30	5	2	11	4	4	5	6	7	3	11	26
45	2	3	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	27
414	3	8	2	5	2	1	1	.....	.....	2	1	2	3	2	28
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29
97	5	.....	.....	1	5	.....	.....	.....	.....	1	.....	1	.....	1	30
218	10	1	.....	1	5	5	.....	2	1	9	2	3	3	3	31
32	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	32
862	155	23	81	147	98	24	27	12	24	34	26	52	11	51	33
114	12	3	1	.....	.....	.....	1	.....	.....	.....	.....	.....	2	2	34
81	1	1	.....	.....	.....	.....	.....	.....	.....	1	1	.....	1	1	35
694	101	8	8	14	15	18	9	3	2	16	6	6	11	21	36
20	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	37
108	6	2	2	1	.....	1	.....	.....	.....	1	1	.....	1	3	38
784	175	15	28	50	35	20	23	12	8	35	13	10	15	30	39
33	4	.....	2	2	3	3	.....	.....	.....	3	1	.....	3	.....	40
75	7	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	41
162	4	1	.....	1	1	.....	.....	.....	.....	.....	2	.....	3	.....	42
169	26	2	3	3	1	1	3	.....	1	1	1	1	5	2	43
382	8	9	1	6	3	5	3	.....	.....	3	1	2	3	11	44
17	3	2	.....	2	3	.....	.....	.....	.....	.....	.....	.....	.....	1	45
61	3	.....	.....	1	3	.....	1	.....	.....	.....	1	.....	.....	.....	46
144	17	4	4	1	1	.....	2	1	.....	2	1	2	4	2	47
127	2	3	4	2	.....	1	.....	.....	.....	.....	1	.....	1	3	48
99	2	1	.....	3	1	2	.....	.....	.....	3	.....	.....	1	.....	49
392	10	16	2	3	8	7	.....	.....	1	8	1	2	3	3	50
24	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51

TABLE 6.—PERIODS OF ISSUE AND CHARACTER OF PUBLICATION,

	STATES AND TERRITORIES.	NUMBER OF PUBLICATIONS IN EXISTENCE BUT NOT REPORTING.											
		Total.	Periods of issue.										
			Daily.					Weekly.	Semi-weekly.	Tri-weekly.	Monthly.	Quarterly.	All other.
			Total.	Morning.	Evening.	6 days per week.	7 days per week.						
1	The United States	2,715	121	40	81	112	9	1,907	20	6	513	46	102
2	Alabama	41	2	1	1	2		35			2		2
3	Arizona	6	1		1	1		5					
4	Arkansas	29						26	2		1		
5	California	100	9	3	6	9		69	1		17		4
6	Colorado	71	5		5	5		54			11		1
7	Connecticut	24	1		1	1		16		1	5		1
8	Delaware	9						8			1		
9	District of Columbia	31						18			9	2	2
10	Florida	25	2	2		1	1	21			2		
11	Georgia	49	5	5		5		33			10		1
12	Idaho	15						15					
13	Illinois	175	4		4	4		110	1		43	4	13
14	Indiana	60	5	1	4	5		41	1		13		
15	Indian territory	4						4					
16	Iowa	101	3		3	3		82	1		13		2
17	Kansas	93	2		2	2		80			7		4
18	Kentucky	52	2		2	2		43	1		6		
19	Louisiana	44	2	2		2		41					1
20	Maine	26	2	1	1	2		13	1		8	1	1
21	Maryland	46	2		2	2		26			12	3	3
22	Massachusetts	100	4		4	4		37			45	6	8
23	Michigan	68	1		1	1		50		1	11		5
24	Minnesota	53						44			7		2
25	Mississippi	42	1	1		1		37		2	2		
26	Missouri	96	2	1	1	2		69			15	4	6
27	Montana	9	1	1		1		5	1		1		1
28	Nebraska	104	6	3	3	5	1	91			6		1
29	Nevada	10	4		4	4		6					
30	New Hampshire	16	4	1	3	4		7	2		2		1
31	New Jersey	55	1	1		1		45			6	1	2
32	New Mexico	7						7					
33	New York	311	6	2	4	4	2	148	3		122	17	15
34	North Carolina	41	1		1	1		33			4		3
35	North Dakota	25						24			1		
36	Ohio	161	4	1	3	3	1	103			45		9
37	Oklahoma	9	1		1	1		8					
38	Oregon	11						9			2		
39	Pennsylvania	205	21	7	14	19	2	130	1		39	6	8
40	Rhode Island	18	1		1		1	12	1	1	2		1
41	South Carolina	16						12			3	1	
42	South Dakota	53	2	1	1	2		48			3		
43	Tennessee	35	1		1	1		37			7		
44	Texas	75	2	2		2		66			7		
45	Utah	11						4	2		4		1
46	Vermont	6						2			4		
47	Virginia	46	2	1	1	2		33	1	1	8	1	
48	Washington	28	5	3	2	4	1	23					
49	West Virginia	32	2		2	2		29			1		
50	Wisconsin	65	2		2	2		53			6		4
51	Wyoming	6						5	1				

NEWSPAPERS AND PERIODICALS, BY STATES AND TERRITORIES: 1890—Continued.

NUMBER OF PUBLICATIONS IN EXISTENCE BUT NOT REPORTING—continued.															
Character of publication.															
News, politics, and family reading.	Religion.	Agricultural, horticultural, dairy, and stock raising.	Commerce, finance, insurance, and railroads.	Trade.	General literature, including magazines.	Sunday newspapers.	Medicine and surgery.	Law.	Science and mechanics.	Freemasonry, Odd Fellowship, and temperance.	Education and history.	Society, art, music, and fashion.	College and school periodicals.	Miscellaneous.	
1,821	157	49	48	59	96	30	64	4	40	61	47	46	93	100	1
39											1		1		2
5														1	3
26	2													1	4
72	5	3	3		3		2		1	3		1	2	5	5
44	3	1	4	4	3		2		2	3	1	1		3	6
14					3	1			2			1	3		7
7						1							1		8
10		1	3	1		4			4	3	1	1		9	9
22										1	2				10
37	1	3			1	1	1					1	1	3	11
15															12
88	12	1	4	8	17	4	7		3	5	2	1	7	16	13
45	5	2					1		1		1		4	1	14
4															15
77	5		1	1		1	2			6	3	2	2	1	16
77	2	1	2	1	1					2			4	3	17
41	5		1				2				1		2		18
41	1	1							1						19
15	2	2	1	1	3								1	1	20
23	6	2	2	1	1		1		2		2			6	21
27	9	1	3	5	15	3	5	1	3	4	2	3	10	9	22
47	3	2	1	3	1		3	1		2	1	1	3		23
39	3	2	1	2	2		1			1		1		1	24
38	1	1											2		25
67	5	1	2	1	4	1	8			1	1		3	2	26
5	1	2												1	27
96	2			1			2			1				2	28
10															29
13					1						1		1		30
42	3		1	1		3		2		1			1	1	31
6		1													32
103	26	7	13	18	26	3	19		17	10	6	25	12	26	33
33	4			1	1						1		1		34
24	1														35
96	8	8	4	3	6	1	3		1	8	7	3	9	4	36
9															37
8						1					2				38
138	23	3		5	3	3	2		2	4	2	4	11	5	39
13						1				3	1				40
12	2				1								1		41
50											2		1		42
24	5			1			1			1	1		2		43
65	4			1	1		1			1			1	1	44
5		2	1								1			2	45
2					1					1			2		46
33	3	1	1		1		1				1	1	4		47
28															48
28	2										2				49
52	3	1			1	2			1		2		1	2	50
6															51

TABLE 7.—CIRCULATION AND CONSUMPTION OF PAPER, NEWSPAPERS

	STATES AND TERRITORIES.	Number of publications reporting.	AGGREGATE CIRCULATION PER ISSUE.								AGGREGATE NUMBER OF COPIES PRINTED DURING THE CENSUS YEAR.	
			Total (all classes).	Dailies.	Weeklies.	Semi-weeklies.	Tri-weeklies.	Monthlies.	Quarterlies.	All other.	Total (all classes).	Dailies.
1	The United States	14,901	69,138,934	8,387,188	28,954,515	561,743	50,067	19,624,038	8,124,500	3,436,883	4,681,113,530	2,782,282,406
2	Alabama	136	246,847	32,154	173,477	1,560	.....	8,766	29,600	1,950	19,277,464	9,890,020
3	Arizona	29	22,309	5,210	17,099	.....	.....	.....	.....	.....	2,551,928	1,663,980
4	Arkansas	164	192,749	15,917	166,482	.....	.....	9,750	.....	600	13,768,353	5,039,160
5	California	455	1,151,389	399,454	604,050	6,810	750	123,425	7,000	9,000	163,716,618	120,641,287
6	Colorado	186	229,609	68,150	128,809	2,160	1,300	29,250	.....	.....	30,022,108	22,710,240
7	Connecticut	156	496,084	117,246	182,472	1,490	.....	185,276	4,500	5,100	48,253,243	36,312,898
8	Delaware	32	55,582	20,450	30,132	.....	.....	5,000	.....	.....	8,033,402	6,308,000
9	District of Columbia	17	321,151	62,651	243,500	.....	.....	15,000	.....	.....	31,715,418	18,645,418
10	Florida	97	107,257	16,605	87,052	.....	1,000	2,000	.....	600	10,113,301	5,393,025
11	Georgia	230	733,223	70,546	442,250	2,000	.....	178,827	3,000	36,600	48,512,208	23,070,652
12	Idaho	33	21,270	1,700	18,690	880	.....	.....	.....	.....	1,593,500	532,200
13	Illinois	1,241	7,891,219	774,486	3,437,663	30,820	900	1,627,250	1,867,800	152,300	465,924,592	254,386,744
14	Indiana	620	1,299,418	166,051	673,708	2,840	.....	371,909	29,200	55,620	94,466,572	53,221,555
15	Indian territory	9	8,995	500	8,495	.....	.....	.....	.....	.....	480,740	39,000
16	Iowa	703	1,088,019	110,563	795,077	14,397	4,800	133,032	12,750	17,400	80,780,202	35,257,579
17	Kansas	693	756,746	82,266	596,089	2,430	.....	72,983	700	2,228	57,469,332	25,739,453
18	Kentucky	218	727,781	135,150	445,485	20,200	3,300	29,451	.....	94,195	71,543,310	44,325,835
19	Louisiana	129	358,183	78,600	225,883	5,200	.....	40,600	1,700	6,200	40,145,248	27,477,600
20	Maine	146	2,442,046	41,545	230,642	1,350	.....	1,964,659	2,000	201,850	53,206,443	12,981,070
21	Maryland	124	392,068	137,085	210,310	.....	.....	22,075	13,850	8,748	56,855,415	46,192,315
22	Massachusetts	568	4,662,159	445,781	1,802,125	25,440	.....	1,327,740	781,910	279,163	261,440,450	141,242,704
23	Michigan	589	1,511,915	212,975	869,704	6,690	1,700	377,734	10,552	32,500	122,904,401	71,451,380
24	Minnesota	392	1,023,005	180,433	518,563	15,000	.....	148,933	2,000	158,076	95,551,350	61,452,210
25	Mississippi	119	108,061	7,350	91,206	.....	500	5,950	.....	3,055	7,266,800	2,300,550
26	Missouri	707	2,615,135	428,094	1,346,714	28,700	2,610	624,767	135,500	48,750	225,731,297	146,506,687
27	Montana	52	68,980	19,170	44,750	1,250	960	1,850	.....	1,000	9,106,770	6,455,590
28	Nebraska	446	635,505	84,698	447,757	900	.....	83,850	.....	18,300	52,037,250	27,577,635
29	Nevada	15	14,530	8,700	5,830	.....	.....	.....	.....	.....	3,010,210	2,708,050
30	New Hampshire	111	261,040	37,900	201,752	1,450	.....	19,938	.....	.....	21,314,338	11,782,500
31	New Jersey	263	1,486,777	160,746	278,791	2,200	1,300	1,036,315	3,125	4,300	75,855,311	48,930,363
32	New Mexico	34	23,157	5,134	17,523	.....	.....	.....	.....	500	2,524,262	1,603,880
33	New York	1,627	18,031,391	2,119,101	6,347,827	100,998	14,550	6,990,400	1,712,200	746,315	1,177,147,744	735,139,251
34	North Carolina	135	173,077	23,110	139,867	2,000	.....	9,050	1,500	2,550	14,821,936	7,234,350
35	North Dakota	87	86,425	9,220	66,405	2,000	.....	8,800	.....	.....	6,357,508	2,000,581
36	Ohio	932	5,639,781	499,712	1,996,400	44,230	9,825	956,522	1,342,997	790,095	306,508,217	161,161,014
37	Oklahoma	21	14,654	3,450	10,104	.....	.....	1,100	.....	.....	1,462,332	1,017,290
38	Oregon	126	208,855	32,712	154,243	1,400	.....	20,000	.....	500	19,159,764	10,764,684
39	Pennsylvania	1,271	9,472,083	1,241,514	3,135,664	65,078	5,700	2,763,798	1,624,741	635,588	633,014,599	407,817,246
40	Rhode Island	54	148,868	67,959	59,666	425	.....	20,468	350	.....	26,228,741	22,842,567
41	South Carolina	84	121,672	17,125	97,922	925	200	.....	3,500	2,000	11,248,784	5,063,000
42	South Dakota	174	142,362	13,812	105,000	2,400	.....	17,150	.....	4,000	10,336,238	4,328,060
43	Tennessee	219	1,450,118	82,941	756,105	4,140	.....	98,582	495,500	12,850	72,094,743	28,894,503
44	Texas	437	658,183	87,123	498,557	7,240	480	53,783	1,000	10,000	55,640,136	28,057,494
45	Utah	28	68,000	20,525	8,200	20,075	.....	12,000	.....	7,200	9,626,740	6,796,300
46	Vermont	70	207,565	10,700	100,265	.....	.....	96,600	.....	.....	9,189,500	2,828,950
47	Virginia	185	346,056	47,106	218,748	3,720	192	56,290	17,500	2,500	28,172,077	15,579,569
48	Washington	144	204,488	48,954	139,134	.....	.....	15,950	.....	450	23,547,244	16,204,412
49	West Virginia	112	130,328	22,600	101,128	250	.....	5,500	.....	850	12,428,686	7,059,500
50	Wisconsin	456	1,053,389	107,594	657,300	133,105	.....	51,715	20,625	83,050	86,422,737	35,705,695
51	Wyoming	25	24,370	4,620	19,750	.....	.....	.....	.....	.....	2,473,860	1,446,860

AND PERIODICALS, BY STATES AND TERRITORIES: 1890.

AGGREGATE NUMBER OF COPIES PRINTED DURING THE CENSUS YEAR—continued.						AGGREGATE NUMBER OF POUNDS OF PAPER CONSUMED FOR EACH EDITION.								
Weeklies.	Semi-weeklies.	Tri-weeklies.	Monthlies.	Quarterlies.	All other.	Total (all classes).	Dailies.	Weeklies.	Semi-weeklies.	Tri-weeklies.	Monthlies.	Quarterlies.	All other.	
1,492,460,587	57,637,353	7,634,350	232,617,133	32,479,100	76,002,601	9,350,920	963,189	3,143,275	64,389	8,399	3,646,220	836,668	688,780	1
8,063,444	156,000	.....	105,200	116,000	46,800	21,088	3,274	15,811	200	.....	1,343	350	110	2
887,948	.....	.....	.....	.....	.....	1,725	370	1,355	.....	.....	.....	.....	.....	3
8,597,793	.....	.....	117,000	.....	14,400	15,671	1,164	13,518	.....	.....	960	.....	29	4
31,596,351	655,080	114,000	1,464,200	28,000	217,700	158,069	45,726	77,132	482	25	32,872	345	1,487	5
6,547,628	224,640	195,000	344,600	.....	.....	30,816	12,889	12,347	140	300	5,140	.....	.....	6
9,426,633	151,300	.....	2,219,212	18,000	125,200	55,230	10,501	18,702	114	.....	25,315	108	490	7
1,667,402	.....	.....	58,000	.....	.....	4,702	1,302	2,681	.....	.....	629	.....	.....	8
12,890,000	.....	.....	180,000	.....	.....	71,611	7,593	49,518	.....	.....	14,500	.....	.....	9
4,525,876	.....	156,000	24,000	.....	14,400	10,576	1,784	8,485	.....	75	200	.....	32	10
22,774,628	208,000	.....	2,144,528	12,000	302,400	132,282	10,468	51,097	75	.....	66,832	600	3,210	11
971,780	89,520	.....	.....	.....	.....	1,875	156	1,642	77	.....	.....	.....	.....	12
177,501,368	3,137,080	140,400	19,630,700	7,451,200	3,677,100	912,856	110,784	342,400	7,861	57	330,070	84,357	37,327	13
35,032,428	295,161	.....	4,464,748	117,800	1,334,880	141,507	13,121	68,581	197	.....	51,179	1,760	6,069	14
441,740	.....	.....	.....	.....	.....	823	35	788	.....	.....	.....	.....	.....	15
41,292,939	1,375,316	717,800	1,601,468	51,000	484,100	107,177	9,820	81,079	1,241	420	11,567	1,470	1,580	16
30,565,741	258,920	.....	876,450	2,800	25,908	65,561	8,145	51,565	127	.....	5,484	.....	240	17
22,124,200	1,983,200	504,800	328,200	.....	2,277,075	61,648	9,206	45,399	1,200	127	3,783	.....	1,843	18
11,511,348	540,800	.....	480,300	6,800	128,400	31,222	8,149	17,683	115	.....	4,660	300	315	19
11,660,925	140,400	.....	23,572,848	8,000	4,843,200	285,808	3,727	24,079	70	.....	227,509	270	30,153	20
10,114,000	.....	.....	283,700	55,400	210,000	51,577	15,004	26,193	.....	.....	6,970	2,690	720	21
92,222,798	2,597,280	.....	15,315,728	3,134,240	6,927,700	715,751	50,026	211,928	2,029	.....	227,206	191,442	27,120	22
45,157,637	694,960	265,200	4,529,316	42,208	763,700	155,822	18,409	91,017	494	150	37,362	1,500	6,890	23
26,942,986	1,560,000	.....	1,790,546	8,000	3,797,617	132,695	18,678	55,622	1,650	.....	35,911	965	19,869	24
4,742,900	.....	78,000	71,950	.....	73,400	8,093	402	6,903	.....	25	488	.....	275	25
67,465,050	2,932,800	407,100	6,783,800	542,000	1,093,800	307,684	52,192	142,149	2,891	352	79,371	21,908	8,821	26
2,326,220	130,000	148,760	22,200	.....	24,000	6,072	1,631	4,045	125	60	156	.....	55	27
22,978,624	69,600	.....	1,004,600	.....	406,800	64,587	9,941	43,907	60	.....	9,039	.....	1,640	28
302,160	.....	.....	.....	.....	.....	816	444	372	.....	.....	.....	.....	.....	29
9,139,782	150,800	.....	241,256	.....	.....	24,097	2,860	19,238	90	.....	1,909	.....	.....	30
13,983,968	228,800	163,200	12,434,780	12,500	101,700	130,970	12,219	32,529	170	76	85,585	210	181	31
910,382	.....	.....	.....	.....	10,000	1,537	305	1,217	.....	.....	.....	.....	15	32
328,502,023	10,320,144	2,192,150	82,421,516	6,842,200	11,721,460	3,460,699	276,771	869,128	16,423	5,328	1,639,092	210,976	442,981	33
7,206,686	206,000	.....	107,700	6,000	61,200	14,539	1,539	11,729	137	.....	975	112	47	34
3,439,327	208,000	.....	109,600	.....	.....	7,299	580	5,679	200	.....	840	.....	.....	35
103,697,551	4,598,720	1,526,800	11,427,864	5,372,388	18,783,880	553,090	47,813	197,619	2,906	1,033	137,759	114,886	51,074	36
431,842	.....	.....	13,200	.....	.....	1,042	220	792	.....	.....	30	.....	.....	37
7,998,480	145,600	.....	239,000	.....	12,000	24,759	3,541	16,064	70	.....	4,884	.....	200	38
162,756,709	6,679,292	889,000	33,087,167	6,498,664	15,286,521	1,170,320	136,388	309,938	5,538	309	538,284	154,711	25,152	39
3,097,898	44,200	.....	242,676	1,400	.....	19,591	7,630	10,421	67	.....	1,213	260	.....	40
5,097,384	94,600	31,200	.....	14,000	48,000	10,480	1,666	8,273	35	20	.....	400	86	41
5,455,878	249,600	.....	205,800	.....	96,000	13,243	932	8,693	260	.....	2,608	.....	750	42
39,013,280	424,160	.....	1,183,000	1,982,000	597,800	101,888	8,078	38,472	283	.....	10,142	41,018	3,895	43
25,886,762	735,600	74,880	641,700	4,000	240,000	65,642	8,195	46,883	602	24	8,698	40	1,200	44
426,440	2,087,200	.....	144,000	.....	172,800	11,457	2,370	1,563	2,470	.....	3,287	.....	1,707	45
5,201,440	.....	.....	1,159,200	.....	.....	20,363	850	10,093	.....	.....	18,420	.....	.....	46
11,371,748	386,880	30,000	673,880	70,000	60,000	25,482	3,347	14,426	255	18	6,211	1,000	225	47
7,145,632	.....	.....	186,400	.....	10,800	22,542	5,544	13,586	.....	.....	3,372	.....	40	48
5,257,986	26,000	.....	64,800	.....	20,400	11,171	1,979	8,843	30	.....	224	.....	95	49
34,179,842	13,843,000	.....	620,300	82,500	1,991,400	96,609	9,018	50,648	15,615	.....	4,141	4,990	12,197	50
1,027,000	.....	.....	.....	.....	.....	1,756	313	1,443	.....	.....	.....	.....	.....	51

TABLE 8.—NUMBER OF NEWSPAPERS AND PERIODICALS PUBLISHED IN DIFFERENT LANGUAGES

	STATES AND TERRITORIES.	NUMBER OF PUBLICATIONS IN EXISTENCE DURING THE CENSUS YEAR, CLASSIFIED ACCORDING TO LANGUAGE.																
		Total.	Armenian.	Bohemian.	Bohemian and English.	Chinese.	Dutch.	English.	Finnish.	French.	French and English.	Gaelic.	Gaelic and English.	German.	German and English.	German and Hebrew.	Hebrew.	Hungarian.
1	The United States	17,616	1	25	1	3	18	16,457	4	43	6	1	3	790	30	4	6	2
2	Alabama	177						177										
3	Arizona	35						34										
4	Arkansas	193						191						2				
5	California	555				3		515		6				17	2			
6	Colorado	257						251						5				
7	Connecticut	180						171						9				
8	Delaware	41						39						2				
9	District of Columbia	48						46						2				
10	Florida	122						121										
11	Georgia	279						278						1				
12	Idaho	48						48										
13	Illinois	1,416		7			1	1,270		2			1	81	8		1	
14	Indiana	680						646						33	1			
15	Indian territory	13						12										
16	Iowa	804		1			3	750						40				
17	Kansas	786						768						14	2			
18	Kentucky	270						264						6				
19	Louisiana	173						154		7	4			5				
20	Maine	172						172										
21	Maryland	170						161						9				
22	Massachusetts	668						641		13	1		1	10				
23	Michigan	657					9	606	2	3				27	1			
24	Minnesota	445						389	1	2				18				
25	Mississippi	161						161										
26	Missouri	803		1				754						41	2			
27	Montana	61						60						1				
28	Nebraska	550		3				522						16				
29	Nevada	25						25										
30	New Hampshire	127						123		2				2				
31	New Jersey	318					1	292		1				24				
32	New Mexico	41						33										
33	New York	1,938	1	4				1,772		5		1	1	111		4	3	1
34	North Carolina	176						176										
35	North Dakota	112						105			1			1	1			
36	Ohio	1,093		2				982	1					104	2			
37	Oklahoma	30						30										
38	Oregon	137						132						3				
39	Pennsylvania	1,476						1,372		1				87	5		2	1
40	Rhode Island	72						69		1				1				
41	South Carolina	100						98						2				
42	South Dakota	227			1		1	220						3	1			
43	Tennessee	254						250						4				
44	Texas	512		2				494						11				
45	Utah	30						36						1				
46	Vermont	76						76										
47	Virginia	231						227						4				
48	Washington	172						163						3				
49	West Virginia	144						142						2				
50	Wisconsin	521		5			3	409						87	5			
51	Wyoming	31						30						1				

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IN EXISTENCE, REPORTING AND NOT REPORTING, BY STATES AND TERRITORIES: 1890.

NUMBER OF PUBLICATIONS IN EXISTENCE DURING THE CENSUS YEAR, CLASSIFIED ACCORDING TO LANGUAGE—continued.														NUMBER OF PUBLICATIONS REPORTING, CLASSIFIED ACCORDING TO LANGUAGE.								
Indian (a) and English.	Italian.	Italian and English.	Lithuanian.	Polish.	Portuguese.	Scandinavian. (b)	Slavonic, unspecified.	Spanish.	Spanish and English.	Volapuk.	Volapuk and English.	Welsh.	Welsh and English.	Total.	Armenian.	Bohemian.	Bohemian and English.	Chinese.	Dutch.	English.	Finnish.	
1	14	2	1	22	2	130	2	33	7	2	1	4	1	14,901	1	22	1	3	16	13,848	4	1
														136						136		2
								1						29						28		3
														164						162		4
	4				1	2		4	1					455				3		418		5
								1						186						182		6
														156						148		7
														32						30		8
														17						15		9
								1						97						97		10
														230						229		11
														33						33		12
	2	1		9		32		1						1,241		5			1	1,114		13
														620						587		14
1														9						8		15
						10								703		1			3	655		16
						1							1	693						676		17
														218						212		18
	1	1						1						129						111		19
														146						146		20
														124						117		21
						1				1				568						542		22
				3		6								589					8	540	2	23
				2		33								392						338	1	24
														119						119		25
						2		2	1					707		1				661		26
														52						51		27
						9								446		2				425		28
														15						15		29
									1					111						107		30
														263					1	240		31
								5	3					34						26		32
	5			4	1	7		14				4		1,627	1	4				1,475		33
														135						135		34
						4								87						80		35
				1							1			932		2				825	1	36
														21						21		37
						1				1				126						122		38
	2		1	1		2	2							1,271						1,175		39
						1								54						52		40
														84						82		41
						1								174			1			170		42
														219						215		43
								3	2					437		2				420		44
						2								28						28		45
														70						70		46
														185						182		47
						6								144						135		48
														112						110		49
				2		10								456		5			3	358		50
														25						25		51

b Embraces Norwegian, Swedish, and Danish publications.

TABLE 8.—NUMBER OF NEWSPAPERS AND PERIODICALS PUBLISHED IN DIFFERENT LANGUAGES

	STATES AND TERRITORIES.	NUMBER OF PUBLICATIONS REPORTING, CLASSIFIED ACCORDING TO LANGUAGE—continued.																
		French.	French and English.	Gaelic.	Gaelic and English.	German.	German and English.	German and Hebrew.	Hebrew.	Hungarian.	Indian (a) and English.	Italian.	Italian and English.	Lithuanian.	Polish.	Portuguese.	Scandinavian.	Slavonic, unspecified.
1	The United States	40	5	1	3	727	27	4	5	1	1	13	1	1	18	2	112	2
2	Alabama																	
3	Arizona																	
4	Arkansas					2												
5	California	5				15	2					4				1	2	
6	Colorado					3												
7	Connecticut					8												
8	Delaware					2												
9	District of Columbia					2												
10	Florida																	
11	Georgia					1												
12	Idaho																	
13	Illinois	2			1	76	7		1			2			6		26	
14	Indiana					32	1											
15	Indian territory										1							
16	Iowa					35											9	
17	Kansas					14	1											
18	Kentucky					6											1	
19	Louisiana	7	3			5						1	1					
20	Maine																	
21	Maryland					7												
22	Massachusetts	13	1		1	9											1	
23	Michigan	3				27	1								2		6	
24	Minnesota	2				17									2		32	
25	Mississippi																	
26	Missouri					38	2										2	
27	Montana					1												
28	Nebraska					14											5	
29	Nevada																	
30	New Hampshire	2				2												
31	New Jersey	1				21												
32	New Mexico																	
33	New York	4		1	1	103		4	2	1		4			4	1	6	
34	North Carolina																	
35	North Dakota		1			1	1										4	
36	Ohio					100	2								1			
37	Oklahoma																	
38	Oregon					3												
39	Pennsylvania	1				80	5		2			2		1	1		1	
40	Rhode Island					1											2	2
41	South Carolina					2											1	
42	South Dakota																	
43	Tennessee					2	1											
44	Texas					4												
45	Utah					10												
46	Vermont																	
47	Virginia																	
48	Washington					3												
49	West Virginia					3												
50	Wisconsin					2											6	
51	Wyoming					76	4								2		8	

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IN EXISTENCE, REPORTING AND NOT REPORTING, BY STATES AND TERRITORIES: 1890—Continued.

NUMBER OF PUBLICATIONS REPORTING, CLASSIFIED ACCORDING TO LANGUAGE—continued.						NUMBER OF PUBLICATIONS IN EXISTENCE BUT NOT REPORTING, CLASSIFIED ACCORDING TO LANGUAGE.																
Spanish.	Spanish and English.	Volapuk.	Volapuk and English.	Welsh.	Welsh and English.	Total.	Bohemian.	Dutch.	English.	French.	French and English.	German.	German and English.	Hebrew.	Hungarian.	Italian.	Italian and English.	Polish.	Scandinavian. (b)	Spanish.	Volapuk.	
29	7	1	1	4	1	2,715	3	2	2,609	3	1	63	3	1	1	1	1	4	18	4	1	1
						41			41													2
1						6			6													3
						29			29													4
4	1					100			97	1		2										5
1						71			69			2										6
						24			23			1										7
						9			9													8
						31			31													9
						25			24											1		10
						40			40													11
						15			15													12
						175	2		156			5	1				1	3	6	1		13
						60			59			1										14
						4			4													15
						101			95			5							1			16
					1	93			92				1									17
						52			52													18
1						44			43		1											19
						26			26													20
						46			44			2										21
		1				100			99			1										22
						68		1	66									1				23
						53			51			1							1			24
						42			42													25
2	1					96			93			3										26
						9			9													27
						104	1		97			2							4			28
						10			10													29
						16			16													30
						55			52			3										31
5	3					7			7													32
12				4		311			297	1		8		1		1			1	2		33
						41			41													34
						25			25													35
			1			161			157			4										36
						9			9													37
						11			10												1	38
						205			197			7			1							39
						18			17	1												40
						16			16													41
						53		1	50			1							1			42
						35			35													43
3	2					75			74			1										44
						11			8			1							2			45
						6			6													46
						46			45			1										47
						28			28													48
						32			32													49
						65			51			11	1						2			50
						6			5			1										51

b Embraces Norwegian, Swedish, and Danish publications.

GAS.

GAS.

This report presents the statistics concerning the manufacture of gas for the year beginning July 1, 1889, and ending June 30, 1890, as conducted by 742 establishments, from which complete reports were received. The reports for the census of 1880 contain no data respecting the manufacture of gas, although the industry appears in the reports from 1850 to 1870, inclusive. The following comparative summary presents the statistics concerning the manufacture of gas given at previous censuses and the totals under the general heads of the census inquiry of 1890:

COMPARATIVE SUMMARY, GAS MANUFACTURE: 1850 TO 1890.

ITEMS.	1850	1860	1870 (a)	1880 (b)	1890
Number of establishments reporting	30	221	390	.....	742
Capital	$6,674,000	$28,848,726	$71,773,694	.....	$258,771,795
Miscellaneous expenses	(c)	(c)	(c)	.....	$7,799,385
Average number of employés (aggregate)	952	5,730	8,723	.....	14,860
Total wages	$390,684	$2,321,536	$6,546,734	.....	$10,642,794
Officers, firm members, and clerks:					
Average number	(d)	(d)	(d)	.....	1,864
Total wages	(d)	(c)	(c)	.....	$2,143,169
All other employés:					
Average number	(d)	(d)	(d)	.....	12,996
Total wages	(d)	(d)	(d)	.....	$8,499,625
Cost of materials used	$503,074	$3,667,630	$10,869,373	.....	$14,037,087
Value of products	$1,921,746	$12,016,353	$32,048,851	.....	$56,987,290

a The values for 1870 are expressed in a currency which was at a great discount in gold.
b Statistics not reported for 1880.
c Not reported.
d Not reported separately.

While figures are not available to ascertain the increase during the 10 years from 1880 to 1890, the data presented in the above summary partially indicate the changes that have taken place in the industry during the 40 years from 1850 to 1890. Over 250 companies, many of them controlling large establishments, known to have been in existence and engaged in the manufacture of gas during the census year 1890, failed to furnish the information required for census purposes. The figures for the Eleventh Census therefore can not be considered as representing the totals for the manufacture of gas in the United States during that year. It is probable that at previous censuses the office experienced difficulty in securing the desired information and that some establishments were not accounted for or failed to give complete data for all the items. Without making allowance for omissions of this character, it appears that from 1850 to 1890 the number of establishments has increased 712; the capital has increased $252,097,795, or 3,777.31 per cent; the cost of materials used, $13,534,013, or 2,690.26 per cent, and the value of products, $55,065,544, or 2,865.39 per cent.

The 742 establishments from which returns were received in 1890 are found in 714 localities. The following statement gives the names of the localities and the number of establishments in each locality from which returns were received:

NUMBER OF ESTABLISHMENTS IN EACH LOCALITY, GAS MANUFACTURE: 1890.

Adams, Mass	1	Ann Arbor, Mich	1	Attleboro, Mass	1	Bay city, Mich	1
Adrian, Mich	1	Anniston, Ala	1	Augusta, Ga	1	Bayonne, N. J	1
Akron, Ohio	2	Appleton, Wis	1	Augusta, Me	1	Beatrice, Neb	1
Albany, N. Y	1	Arkansas city, Kan	1	Aurora, Ill	1	Belfast, Me	1
Albion, N. Y	1	Arlington, Mass	1	Aurora, Ind	1	Bellaire, Ohio	1
Albuquerque, N. M	1	Ashland, Ohio	1	Aurora, N. Y	1	Bellefontaine, Ohio	1
Allegheny, Pa	1	Ashland, Pa	1	Austin, Tex	1	Belleville, Ill	1
Allentown, Pa	1	Ashtabula, Ohio	1	Ballston Spa, N. Y	1	Beloit, Wis	1
Alliance, Ohio	1	Astoria, Ore	1	Baltimore, Md	1	Benicia, Cal	1
Alpena, Mich	1	Atchison, Kan	1	Bangor, Me	1	Benton Harbor, Mich	1
Alton, Ill	1	Athens, Ga	1	Baraboo, Wis	1	Bethlehem, Pa	1
Altoona, Pa	1	Athens, Ohio	1	Barnesville, Ohio	1	Beverly, Mass	1
Amesbury, Mass	1	Athol, Mass	1	Batavia, N. Y	1	Big Rapids, Mich	1
Amherst, Mass	1	Atlanta, Ga	2	Bath, Me	1	Binghamton, N. Y	1
Amsterdam, N. Y	1	Atlantic, Iowa	1	Bath, N. Y	1	Birmingham, Ala	1
Anderson, Ind	1	Attica, N. Y	1	Baton Rouge, La	1	Boonville, Mo	1

NUMBER OF ESTABLISHMENTS IN EACH LOCALITY, GAS MANUFACTURE: 1890—Continued.

Boston, Mass	4
Braddock, Pa	1
Brattleboro, Vt	1
Bridgeport, Conn	1
Bridgeton, N. J	1
Bristol, Pa	1
Bristol, R. I	1
Brockport, N. Y	1
Brockton, Mass	1
Brookline, Mass	1
Brooklyn, N. Y	4
Brownsville, Pa	1
Brownsville, Tenn	1
Brunswick, Ga	1
Brunswick, Me	1
Bucyrus, Ohio	1
Buffalo, N. Y	3
Burlington, Iowa	1
Burlington, N. J	1
Burlington, Vt	1
Cadiz, Ohio	1
Cairo, Ill	1
Calais, Me	1
Cambridge, Mass	1
Cambridge, Md	1
Camden, N. J	1
Canandaigua, N. Y	1
Canton, Ill	1
Canton, Ohio	1
Cape May, N. J	1
Carbondale, Pa	1
Carlinville, Ill	1
Carlisle, Pa	1
Carson city, Nev	1
Cartersville, Ga	1
Carthage, Mo	1
Catasauqua, Pa	1
Catskill, N. Y	1
Cedar Rapids, Iowa	1
Centralia, Ill	1
Chambersburg, Pa	1
Champaign, Ill	1
Charleston, S. C	1
Charleston, W. Va	1
Charlestown, Mass	1
Charlestown, W. Va	1
Charlotte, Mich	1
Charlotte, N. C	1
Charlottesville, Va	1
Chattanooga, Tenn	1
Chelsea, Mass	1
Chester, Pa	1
Cheyenne, Wyo	1
Chicago, Ill	4
Chico, Cal	1
Chicopee, Mass	1
Chicopee Falls, Mass	1
Chillicothe, Ohio	1
Circleville, Ohio	1
Claremont, N. H	1
Clarksville, Tenn	1
Clearfield, Pa	1
Cleveland, Ohio	2
Clinton, Iowa	1
Clinton, Mo	1
Clinton, Mass	1
Clyde, N. Y	1
Coatesville, Pa	1
Cohoes, N. Y	1
Coldwater, Mich	1
College Point, N. Y	1
Columbia, Pa	1
Columbia, S. C	1
Columbus, Ga	1
Columbus, Ind	1
Columbus, Ohio	1
Colusa, Cal	1
Concord, N. H	1
Coney Island, N. Y	1
Connellsville, Pa	1
Connersville, Ind	1
Cooperstown, N. Y	1
Corning, N. Y	1
Corry, Pa	1
Cortland, N. Y	1
Cottage city, Mass	1
Covington, Ky	1
Creston, Iowa	1
Cumberland, Md	1
Dallas, Tex	1
Dalton, Ga	1
Danbury, Conn	1
Dansville, N. Y	1
Danvers, Mass	1
Danville, Ill	1
Danville, Ky	1
Davenport, Iowa	1
Dayton, Ohio	1
Decatur, Ill	1
Dedham, Mass	1
Delaware, Ohio	1
Delphos, Ohio	1
Denison, Tex	1
Denver, Colo	1
Detroit, Mich	1
Dixon, Ill	1
Dorchester, Mass	1
Dover, Del	1
Dover, N. H	1
Dubuque, Iowa	1
Duluth, Minn	1
Dunkirk, N. Y	1
Easthampton, Mass	1
Easton, Pa	1
East Portland, Ore	1
Eastport, Me	1
Eauclaire, Wis	1
Eldorado, Kan	1
Elizabeth, N. J	1
Elkhart, Ind	1
Elmira, N. Y	1
Elyria, Ohio	1
Englewood, N. J	1
Erie, Pa	1
Eufaula, Ala	1
Eureka, Cal	1
Eureka Springs, Ark	1
Evansville, Ind	1
Exeter, N. H	1
Fall River, Mass	2
Fargo, N. D	1
Faribault, Minn	1
Farmington, N. H	1
Fergus Falls, Minn	1
Fishkill on Hudson, N. Y	1
Fitchburg, Mass	1
Flatbush, N. Y	1
Flint, Mich	1
Flushing, N. Y	1
Fond du Lac, Wis	1
Fort Dodge, Iowa	1
Fort Plain, N. Y	1
Fort Scott, Kan	1
Fort Smith, Ark	1
Fort Wayne, Ind	1
Fort Worth, Tex	1
Frankfort, Ind	1
Frankfort, Ky	1
Franklin, Ind	1
Franklin, Pa	1
Franklin Falls, N. H	1
Frederick, Md	1
Fredericksburg, Va	1
Freehold, N. J	1
Freeport, Ill	1
Fremont, Neb	1
Fremont, Ohio	1
Frostburg, Md	1
Gainesville, Fla	1
Galesburg, Ill	1
Galion, Ohio	1
Gallipolis, Ohio	1
Galva, Ill	1
Galveston, Tex	1
Gardner, Mass	1
Geneseo, N. Y	1
Geneva, N. Y	1
Georgetown, Colo	1
Georgetown, Ky	1
Gettysburg, Pa	1
Gilroy, Cal	1
Girardville, Pa	1
Glendale, Ohio	1
Glens Falls, N. Y	1
Gloucester, Mass	1
Gloucester, N. J	1
Goshen, N. Y	1
Grand Forks, N. D	1
Grand Haven, Mich	1
Grand Island, Neb	1
Grand Rapids, Mich	1
Grass Valley, Cal	1
Great Barrington, Mass	1
Great Falls, N. H	1
Green Bay, Wis	1
Greenbush, N. Y	1
Greencastle, Ind	1
Greenfield, Mass	1
Greensburg, Ind	1
Greensburg, Pa	1
Greenville, Ohio	1
Greenville, Pa	1
Gunnison, Colo	1
Hackensack, N. J	1
Hagerstown, Md	1
Hamilton, Ohio	1
Hannibal, Mo	1
Hanover, N. H	1
Hanover, Pa	1
Harrisburg, Pa	1
Hartford, Conn	1
Hastings, Neb	1
Hastings upon Hudson, N. Y	1
Haverhill, Mass	1
Haverstraw, N. Y	1
Hazleton, Pa	1
Healdsburg, Cal	1
Helena, Ark	1
Helena, Mont	1
Hempstead, N. Y	1
Henderson, Ky	1
Herkimer, N. Y	1
Hoboken, N. J	1
Hollidaysburg, Pa	1
Hollister, Cal	1
Holyoke, Mass	1
Hoosick Falls, N. Y	1
Hopkinsville, Ky	1
Hot Springs, Ark	1
Houston, Tex	1
Hudson, N. Y	1
Huntington, Conn	1
Huntsville, Ala	1
Huntsville, Mo	1
Ilion, N. Y	1
Independence, Iowa	1
Independence, Mo	1
Indianapolis, Ind	1
Ionia, Mich	1
Iowa city, Iowa	1
Ipswich, Mass	1
Ithaca, N. Y	1
Jackson, Cal	1
Jackson, Miss	1
Jacksonville, Fla	1
Jacksonville, Ill	1
Jamaica Plain, Mass	1
Jamaica, N. Y	1
Jamestown, N. Y	1
Janesville, Wis	1
Jefferson city, Mo	1
Jeffersonville, Ind	1
Jersey city, N. J	1
Jersey Shore, Pa	1
Johnstown, N. Y	1
Johnstown, Pa	1
Joliet, Ill	1
Joplin, Mo	1
Kalamazoo, Mich	1
Kankakee, Ill	1
Kansas city, Kan	1
Kansas city, Mo	1
Kearney, Neb	1
Keene, N. H	1
Kenosha, Wis	1
Kenton, Ohio	1
Keokuk, Iowa	1
Key West, Fla	1
Killingly, Conn	1
Knoxville, Tenn	1
Kokomo, Ind	1
Laconia, N. H	1
Lacrosse, Wis	1
Lafayette, Ind	1
Lambertville, N. J	1
Lancaster, Pa	1
Lansing, Mich	1
Laporte, Ind	1
Lasalle, Ill	1
Las Vegas, N. M	1
Lawrence, Kan	1
Lawrence, Mass	1
Lawrenceburg, Ind	1
Leadville, Colo	1
Leavenworth, Kan	1
Lebanon, Ind	1
Lebanon, Ky	1
Lebanon, Pa	1
Lee, Mass	1
Leominster, Mass	1
Leroy, N. Y	1
Lewisburg, Pa	1
Lewiston, Me	1
Lewistown, Pa	1
Lexington, Ky	1
Lexington, Mass	1
Lexington, Mo	1
Lincoln, Neb	1
Little Rock, Ark	1
Livermore, Cal	1
Lockport, N. Y	1
Logan, Ohio	1
Logansport, Ind	1
Long Branch, N. J	1
Long Island city, N. Y	1
Los Angeles, Cal	1
Los Gatos, Cal	1
Louisiana, Mo	1
Lowell, Mass	1
Lynchburg, Va	1
Lynn, Mass	1
Lyons, N. Y	1
McKeesport, Pa	1
Macon, Ga	1
Madison, Ind	1
Mahanoy, Pa	1
Malden, Mass	1
Manchester, N. H	1
Manistee, Mich	1
Mansfield, Ohio	1
Marblehead, Mass	1
Marion, Ohio	1
Marlboro, Mass	1
Marquette, Mich	1
Marshall, Mich	1
Marshall, Mo	1
Marshall, Tex	1
Marshalltown, Iowa	1
Martinez, Cal	1
Marysville, Cal	1
Massillon, Ohio	1
Matawan, N. J	1
Mattoon, Ill	1
Mauch Chunk, Pa	1
Maysville, Ky	1
Meadville, Pa	1
Mechanicsburg, Ohio	1
Mechanicsburg, Pa	1
Media, Pa	1
Medina, N. Y	1
Memphis, Tenn	1
Mendota, Ill	1

NUMBER OF ESTABLISHMENTS IN EACH LOCALITY, GAS MANUFACTURE: 1890—Continued.

Merced, Cal	1
Meriden, Conn	1
Michigan city, Ind	1
Middletown, Conn	1
Middletown, N. Y	1
Middletown, Ohio	1
Middletown, Pa	1
Milford, Mass	1
Millville, N. J	1
Milton, Pa	1
Milwaukee, Wis	1
Minneapolis, Minn	1
Mobile, Ala	1
Modesto, Cal	1
Moline, Ill	1
Monmouth, Ill	1
Monroe, Mich	1
Montpelier, Vt	1
Morristown, N. J	1
Mount Holly, N. J	1
Mount Joy, Pa	1
Mount Pleasant, Iowa	1
Mount Pleasant, Pa	1
Mount Sterling, Ky	1
Mount Vernon, Ohio	1
Muncie, Ind	1
Murfreesboro, Tenn	1
Muscatine, Iowa	1
Muskegon, Mich	1
Nantucket, Mass	1
Napa, Cal	1
Nashua, N. H	1
Nashville, Tenn	1
Natick, Mass	1
Nebraska city, Neb	1
Negaunee, Mich	1
Nevada city, Cal	1
New Albany, Ind	1
Newark, N. J	1
Newark, Ohio	1
New Bedford, Mass	1
Newbern, N. C	1
New Britain, Conn	1
New Brunswick, N. J	1
Newburg, N. Y	1
Newburyport, Mass	1
Newcastle, Del	1
Newcastle, Ind	1
New Decatur, Ala	1
New Hartford, Conn	1
New Haven, Conn	1
New London, Conn	1
New Orleans, La	2
New Philadelphia, Ohio	1
Newport, R. I	1
New Rochelle, N. Y	1
Newton, Kan	1
Newton, Mass	1
Newton, N. J	1
Newtown, Pa	1
New York, N. Y	6
Niagara Falls, N. Y	1
Norfolk, Va	1
Norristown, Pa	1
North Adams, Mass	1
Northampton, Mass	1
North Attleboro, Mass	1
Norwalk, Conn	1
Norwalk, Ohio	1
Norwich, Conn	1
Norwich, N. Y	1
Norwood, Mass	1
Nyack, N. Y	1
Oakland, Cal	1
Oberlin, Ohio	1
Oil city, Pa	1
Olympia, Wash	1
Omaha, Neb	1
Oneida, N. Y	1
Oroville, Cal	1
Oshkosh, Wis	1
Oskaloosa, Iowa	1
Oswego, N. Y	1
Ottawa, Ill	1
Ottawa, Kan	1
Ottumwa, Iowa	1
Owego, N. Y	1
Owensboro, Ky	1
Owosso, Mich	1
Paducah, Ky	1
Painesville, Ohio	1
Palatka, Fla	1
Palmyra, N. Y	1
Paris, Ky	1
Passaic, N. J	1
Paterson, N. J	1
Pawtucket, R. I	1
Peekskill, N. Y	1
Pekin, Ill	1
Pensacola, Fla	1
Peoria, Ill	1
Perth Amboy, N. J	1
Peru, Ind	1
Petaluma, Cal	1
Petersburg, Va	1
Philadelphia, Pa	2
Phillipsburg, N. J	1
Pierre, S. D	1
Pine Bluff, Ark	1
Piqua, Ohio	1
Pittsburg, Pa	3
Pittsfield, Mass	2
Pittston, Pa	1
Plainfield, N. J	1
Plattsburg, N. Y	1
Plattsmouth, Neb	1
Plymouth, Mass	1
Plymouth, Pa	1
Portage, Wis	1
Port Henry, N. Y	1
Port Huron, Mich	1
Port Jervis, N. Y	1
Portland, Me	1
Portland, Ore	1
Portsmouth, N. H	1
Portsmouth, Ohio	1
Portsmouth, Va	1
Pottstown, Pa	1
Pottsville, Pa	1
Poughkeepsie, N. Y	1
Princeton, Ill	1
Princeton, N. J	1
Providence, R. I	1
Pueblo, Colo	1
Pulaski, Tenn	1
Putnam, Conn	1
Quincy, Ill	1
Racine, Wis	1
Rahway, N. J	1
Raleigh, N. C	1
Ravenna, Ohio	1
Red Bank, N. J	1
Red Bluff, Cal	1
Redding, Cal	1
Red Oak, Iowa	1
Red Wing, Minn	1
Rhinebeck, N. Y	1
Richmond, Ind	1
Ripley, Ohio	1
Riverside, Cal	1
Rochester, Minn	1
Rockford, Ill	1
Rock Island, Ill	1
Rockland, Me	1
Rockville, Conn	1
Rome, Ga	1
Rondout, N. Y	1
Roxbury, Mass	1
Royersford, Pa	1
Rutland, Vt	1
Saco, Me	1
Sacramento, Cal	1
Sag Harbor, N. Y	1
Saginaw, Mich	2
St. Albans, Vt	1
St. Augustine, Fla	1
St. Charles, Mo	1
St. Cloud, Minn	1
St. Helena, Cal	1
St. Johns, Mich	1
St. Johnsbury, Vt	1
St. Joseph, Mo	1
St. Louis, Mo	1
St. Paul, Minn	1
Salem, Mass	1
Salem, N. J	1
Salem, N. C	1
Salem, Ohio	1
Salem, Ore	1
Salina, Kan	1
Salinas, Cal	1
Salisbury, N. C	1
Salt Lake, Utah	1
San Bernardino, Cal	1
San Buena Ventura, Cal	1
San Diego, Cal	1
Sanford, Fla	1
San Francisco, Cal	2
San Jose, Cal	1
San Leandro, Cal	1
San Rafael, Cal	1
Santa Barbara, Cal	1
Santa Cruz, Cal	1
Saratoga Springs, N. Y	1
Savannah, Ga	1
Schenectady, N. Y	1
Schuylkill Haven, Pa	1
Scranton, Pa	1
Seattle, Wash	1
Selma, Ala	1
Seneca Falls, N. Y	1
Seymour, Ind	1
Shamokin, Pa	1
Sharon, Pa	1
Sharpsburg, Pa	1
Sheboygan, Wis	1
Shelbyville, Ind	1
Shelbyville, Ky	1
Shippensburg, Pa	1
Shreveport, La	1
Sidney, Ohio	1
Singsing, N. Y	1
Sioux city, Iowa	1
Sioux Falls, S. D	1
Smyrna, Del	1
South Bend, Ind	1
South Bethlehem, Pa	1
Southbridge, Mass	1
Spencer, Mass	1
Springfield, Ill	1
Springfield, Mass	1
Springfield, Mo	1
Springfield, Ohio	1
Stamford, Conn	1
Sterling, Ill	1
Stevens Point, Wis	1
Stillwater, Minn	1
Stockton, Cal	1
Stoughton, Mass	1
Streator, Ill	1
Syracuse, N. Y	1
Tacoma, Wash	1
Tamaqua, Pa	1
Tarrytown, N. Y	1
Taunton, Mass	1
Texarkana, Ark	1
Tiffin, Ohio	1
Titusville, Pa	1
Toledo, Ohio	1
Tombstone, Ariz	1
Tonawanda, N. Y	1
Topeka, Kan	1
Towanda, Pa	1
Trenton, Mo	1
Trenton, N. J	1
Trinidad, Colo	1
Troy, N. Y	1
Troy, Ohio	1
Tucson, Ariz	1
Tulare, Cal	1
Upper Sandusky, Ohio	1
Urbana, Ohio	1
Utica, N. Y	1
Vallejo, Cal	1
Valparaiso, Ind	1
Van Wert, Ohio	1
Vicksburg, Miss	1
Vincennes, Ind	1
Vineland, N. J	1
Virginia city, Nev	1
Visalia, Cal	1
Wabash, Ind	1
Waco, Tex	1
Wakefield, Mass	1
Wallawalla, Wash	1
Wallingford, Conn	1
Waltham, Mass	1
Wapakoneta, Ohio	1
Wappingers Falls, N. Y	1
Ware, Mass	1
Warren, Ohio	1
Warren, R. I	1
Warsaw, N. Y	1
Washington, D. C	2
Washington, Ind	1
Washington, Ohio	1
Waterbury, Conn	1
Waterloo, Iowa	1
Watertown, Wis	1
Waterville, N. Y	1
Watkins, N. Y	1
Watsonville, Cal	1
Wausau, Wis	1
Waverly, N. Y	1
Waynesboro, Pa	1
Webster, Mass	1
Wellsville, Ohio	1
West Chester, Pa	1
Westerly, R. I	1
Westfield, Mass	1
Westminster, Md	1
West Superior, Wis	1
West Winsted, Conn	1
Wheeling, W. Va	1
Whitehall, N. Y	1
White Plains, N. Y	1
Wilkesbarre, Pa	1
Williamsport, Pa	1
Williamstown, Mass	1
Willimantic, Conn	1
Wilmington, Del	1
Wilmington, N. C	1
Wilmington, Ohio	1
Windsor, Vt	1
Winfield, Kan	1
Winona, Minn	1
Woburn, Mass	1
Woodbury, N. J	1
Woodland, Cal	1
Woodstock, Vt	1
Woonsocket, R. I	1
Wooster, Ohio	1
Worcester, Mass	1
York, Pa	1
Youngstown, Ohio	1
Ypsilanti, Mich	1
Yreka, Cal	1
Zanesville, Ohio	1

When two or more gas making plants, controlled by the same corporation, firm, or individual, are located in the same city they have been considered and counted as one establishment, except that in some instances individual returns may have been made for separate plants in the same city, and did not contain the necessary information to justify this consolidation In such cases the plants were counted as separate establishments.

CAPITAL.

The capital reported as employed in the manufacture of gas for the census year of 1890 amounts to $258,771,795. The several items forming this aggregate are shown in the following statement, with the percentage the amount given for each is of the total:

STATISTICS OF CAPITAL IN DETAIL AND PERCENTAGE EACH ITEM IS OF TOTAL, GAS MANUFACTURE: 1890.

ITEMS.	Amount.	Percentage of total.
Total	$258,771,795	100.00
Land	45,521,707	17.59
Buildings	35,048,435	13.54
Machinery, tools, and implements	153,830,910	59.45
Raw materials on hand	2,654,254	1.03
Stock in process and finished products on hand	1,914,136	0.74
Cash, bills and accounts receivable, and all sundries not elsewhere reported	19,802,353	7.65

The total shown in the above statement does not include the value of property held in tenancy and for which an annual rental of $630,711 is reported. The value of hired property was not reported. From the returns it appears that in 1890 it required $4.54 of capital to produce $1.00 of gross product. In 1870, $1.00 of product required $2.24 of capital; in 1860, $2.40, and in 1850, $3.47. Previous census inquiries required the total value of all capital to be reported in answer to a single question. It is believed the form of the question used at the census of 1890 developed more fully the amount of capital invested in the industry than was done at previous censuses, and this will account in part, at least, for the large increase.

The principal item reported for capital is machinery, tools, and implements, valued at $153,830,910, or 59.45 per cent of the total capital. This amount includes the value of gas making apparatus and machinery, gas holders, consumers' meters, mains and services, implements, tools, horses, and wagons.

The data presented in Table 2 concerning the length and size of street mains, the number and size of consumers' meters, the number and capacity of water and fuel gas generators, gas holders, station meters, regenerative lamps, etc., indicate to some extent the character of the investment of the amount shown under the head of machinery. The statistics concerning these items, however, must be accepted with some reservation, as complete answers were not made by all establishments.

There were 12,065.34 miles of street mains reported as owned or leased and in use during the census year. This is an average of 16.26 miles to each of the 742 establishments, or 16.90 miles to each of the cities for which reports were received. The increase in street mains during the year was reported as 416 miles and 2,602 feet. Of the various sizes of pipe reported the largest quantity, 18,298,884 feet, is shown for that of 3 inches in diameter. The largest size of pipe, 36 inches in diameter, of which there is 652 feet reported, is shown for only two states, Pennsylvania and Rhode Island. There are 995,619 consumers' meters reported as in use (including ordinary stock carryings), or an average of 1,342 to each establishment, or 1,394 to each city. The increase during the census year was 61,513 meters.

In addition to the items shown in the preceding statement the schedules of inquiry contained a series of questions designed to develop the total value of the capital stock, the number of shares, par and market value per share, amount paid in per share, also the total dividends declared during the census year, and whether the stock was owned by males or females, residents or nonresidents of the state. All of these questions were not answered with sufficient accuracy to justify the presentation of the data.

The totals for the United States for those questions that were answered with reasonable accuracy are summarized in the following statement:

CAPITAL STOCK, GAS MANUFACTURE: 1890.

Total value of capital stock	$229,746,552.00
Total number of shares	4,083,481
Average value per share	$56.26
Ownership of stock:	
Total number of shares	4,083,481
Number of shares issued	2,328,852
Number of shares owned by males	1,865,048
Number of shares owned by females	463,804
Number of shares owned by residents of state	1,644,390
Number of shares owned by nonresidents of state	659,303
Number of shares owned by residents of foreign countries	25,159
Number of shares remaining in treasury or not accounted for	1,754,629

The value of capital reported, $258,771,795, exceeds the value of capital stock by $29,025,243. This excess consists in part of reserve fund, and is also caused by the increase in value of investment and by the fact that some companies report that they had no capital stock.

The number of shares of capital stock (2,328,852) actually issued is 57.03 per cent of the total. There remained in the treasury, or unaccounted for, 1,754,629 shares. Of the total number of shares issued, 80.08 per cent was reported as owned by males, and 19.92 per cent by females. The total number of shares issued was distributed as follows: residents of the state in which the company issuing the stock was located, 70.61 per cent; nonresidents of the state, 28.31 per cent, and residents of foreign countries, 1.08 per cent.

MISCELLANEOUS EXPENSES.

Previous census reports contain no statistics concerning the cost of production other than wages and materials. The inquiry of 1890 was designed to embrace the entire cost of manufacture other than what is involved in interest on capital and depreciation of plant. To permit of such a presentation a series of questions pertaining to expenses of miscellaneous character were included in the schedules. The data obtained in answer to these questions are presented in the following statement, with the percentage the amount reported for each item is of the total:

MISCELLANEOUS EXPENSES AND PERCENTAGE EACH ITEM IS OF TOTAL, GAS MANUFACTURE: 1890.

ITEMS.	Amount.	Percentage of total.
Total	$7,799,385	100.00
Rent paid for tenancy	630,711	8.09
Taxes	2,227,122	28.56
Insurance	77,293	0.99
Repairs, ordinary, of buildings and machinery	1,926,283	24.70
Interest paid on cash used in the business	1,561,773	20.02
All sundries not elsewhere reported	1,376,203	17.64

Taxes is the largest item of the miscellaneous expenses reported, and is followed by the cost of ordinary repairs of buildings and machinery. The borrowed cash represented by the $1,561,773 paid as interest is included in the total capital shown for the industry, but as the schedule of inquiry contained no questions concerning the amount or mode of investment of borrowed cash, it is impossible to designate the items of capital in which it is included. Considering the average rate of interest as 5 per cent, the amount represents borrowed cash to the value of $31,235,460.

The amount, $1,926,283, reported as expended during the year for ordinary repairs of buildings and machinery does not include any expense for new equipment, nor does it include an allowance for depreciation; it, however, represents 1.02 per cent of the value of buildings and machinery.

EMPLOYÉS AND WAGES.

The average number of employés reported as engaged in the manufacture of gas during the census year was 14,860, while the wages paid amounted to $10,642,794. It is believed that the form of the questions respecting employés and wages used at the Eleventh Census has resulted in developing the true average number of employés and the total amount paid in wages more fully than was done at previous censuses. The figures therefore should not be considered as a correct indication of increase. The schedule used at the census of 1890 called for the total wages and the "Average number employed during the year", that is, the average number employed during the entire term of operation of each establishment during the census year. These data were required for the following classes of employés: first, operatives, engineers, and other skilled workmen, overseers and foremen or superintendents (not general superintendents or managers); second, officers or firm members; third, clerks; fourth, watchmen, laborers, teamsters, and other unskilled workmen. The average number of males above 16 years and children were required to be reported separately for classes 1 and 4. The average number of males and females were reported separately for class 2, and the average number of males above 16 years, females above 15 years, and children were reported separately for class 3. The schedule of inquiry also required the average number of males, females, and children to be reported at specified weekly rates of pay. The statistics concerning employés and wages are shown in detail in Table 1, accompanying this report. It is probable that the class of officers or firm members, and possibly clerks, were not reported, or not fully reported, at previous censuses; omitting the former class, the number of employés shows an increase over 1870 of 5,103, or 58.50 per cent. Reducing the wages reported for 1870 to a gold basis, there is an increase shown of $3,970,284, or 75.81 per cent.

The following statement shows the average number, total wages, and average annual earnings for males above 16 years, females above 15 years, and children, by classes:

AVERAGE NUMBER OF MALES ABOVE 16 YEARS, FEMALES ABOVE 15 YEARS, AND CHILDREN, WITH TOTAL WAGES AND AVERAGE ANNUAL EARNINGS PER EMPLOYÉ, BY CLASSES, GAS MANUFACTURE: 1890.

CLASSES.	MALES ABOVE 16 YEARS.			FEMALES ABOVE 15 YEARS.			CHILDREN.		
	Average number.	Total wages.	Average annual earnings.	Average number.	Total wages.	Average annual earnings.	Average number.	Total wages.	Average annual earnings.
Officers or firm members	1,026	$1,431,359	$1,395.09	8	$3,764	$470.50	.....	.....	.....
Clerks	784	689,137	879.00	46	18,909	411.07	.....	.....	.....
Operatives and skilled	7,650	5,558,130	726.55	.....	.....	.....	21	$3,815	$181.67
Unskilled	5,301	2,934,517	553.58	.....	.....	.....	17	2,269	133.12
Piceworkers	1	150	150.00	.....	.....	.....	6	750	125.00

Of the total amount, $10,642,794, paid as wages, the "Office force" (officers or firm members and clerks) received $2,143,169, or 20.14 per cent, and all other employés $8,499,625, or 79.86 per cent. No females were reported as engaged in the industry in either 1870 or 1860. Two females are shown for 1850, as compared with 54 in 1890, 46 of whom are reported as clerks and 8 as officers or firm members.

The number of males above 16 years, females above 15 years, and children reported at specified weekly rates of wages are shown in the following statement:

AVERAGE NUMBER OF EMPLOYÉS AT DIFFERENT WEEKLY RATES OF WAGES, INCLUDING OFFICERS, FIRM MEMBERS, AND CLERKS, BUT NOT THOSE EMPLOYED ON PIECEWORK, GAS MANUFACTURE: 1890.

WEEKLY RATES OF WAGES.	AVERAGE NUMBER OF EMPLOYÉS.		
	Males above 16 years.	Females above 15 years.	Children.
Total	14,761	54	38
Under $5	289	10	37
$5 and over but under $6	256	7	1
$6 and over but under $7	502	9	.....
$7 and over but under $8	395	6	.....
$8 and over but under $9	660	6	.....
$9 and over but under $10	2,112	2	.....
$10 and over but under $12	3,212	8	.....
$12 and over but under $15	2,956	2	.....
$15 and over but under $20	2,543	3	.....
$20 and over but under $25	1,172	.....	.....
$25 and over	664	1	.....

MATERIALS USED.

The total cost of all materials used in the manufacture of gas is reported as $14,037,087, and represents 43.22 per cent of the cost of manufacture, miscellaneous expenses forming 24.01 per cent and wages 32.77 per cent. The quantities and values of the different kinds of material are shown in detail by totals for states and territories in Table 1.

The following statement presents, in a summary form, the cost of the principal items reported under materials and the percentage the amount shown for each is of the total cost of materials used:

COST OF DIFFERENT MATERIALS AND PERCENTAGE THE COST OF EACH IS OF TOTAL, GAS MANUFACTURE: 1890.

ITEMS.	Cost.	Percentage of total cost.
Total	$14,037,087	100.00
Coal	8,773,283	62.50
Slack	24,568	0.17
Coke	190,342	1.36
Crude oil	882,812	6.29
Prepared or gas oil	212,728	1.52
Naphtha	2,387,465	17.01
Natural gas	19,389	0.14
Oxide of iron	51,936	0.37
Lime	426,590	3.04
Fuel	524,249	3.73
All other materials	543,725	3.87

The cost of coal is the principal item of expense in the manufacture of gas, and forms 62.50 per cent of the total cost of all materials. The quantities and cost of the different varieties of coal are given in the accompanying tables. The cost of naphtha is the second largest item of expense under materials, forming 17.01 per cent of the total. The use of natural gas is reported in Indiana, New York, Ohio, and Pennsylvania, there being 153,992,364 feet returned as costing $19,389. The cost of wood consumed in the manufacture of wood gas is included in the $25,233 shown as the cost of wood under fuel in Table 1, as it was not practicable to make an accurate separation.

PRODUCTS AND MACHINERY.

The total gross value of all products reported for gas manufacture was $56,987,290. The distribution of this aggregate among the several items of product and the percentage the amount reported for each item is of the total is shown in the following statement:

VALUE OF PRODUCT AND PERCENTAGE THE AMOUNT REPORTED FOR EACH CLASS IS OF TOTAL, GAS MANUFACTURE: 1890.

ITEMS.	Value.	Percentage of total cost.
Total	$56,987,290	$100.00
Coal gas	28,325,745	49.71
Water gas	21,686,732	38.06
Oil gas	1,782,803	3.13
Wood gas	46,391	0.08
Fuel gas	25,160	0.04
Coke	3,868,924	6.79
Tar	992,565	1.74
Ammoniacal liquor	258,970	0.45

The total quantity of all kinds of gas manufactured is reported at 36,519,511,510 cubic feet, valued at $51,866,831, or $1.42 per 1,000 cubic feet. The quantity, value, and average value per 1,000 cubic feet for each kind of gas is shown in the following statement. The averages given in this statement are computed from the totals obtained from 742 establishments situated in different parts of the country, with many large establishments omitted, and should not be considered as indicating the price in any particular locality.

QUANTITY, VALUE, AND AVERAGE VALUE PER 1,000 CUBIC FEET OF EACH KIND OF GAS MANUFACTURED: 1890.

KINDS OF GAS.	Quantity.	Value.	Average value per 1,000 cubic feet.
Total	36,519,511,510	$51,866,831	$1.42
Coal gas	19,091,449,238	28,325,745	1.48
Water gas	16,289,044,897	21,686,732	1.33
Oil gas	962,585,650	1,782,803	1.85
Wood gas	13,527,725	46,391	3.43
Fuel gas	162,904,000	25,160	0.15

The average value per bushel for coke is shown as $0.068, and of coal tar and ammoniacal liquor per gallon $0.041 and $0.007, respectively.

The quantity and value of the different varieties of gas manufactured in each state and territory are given in detail in Table 1.

The $56,987,290 shown as the value of products is the total for all classes of products manufactured during the year. Of the quantities represented by this value, a certain quantity of gas and by-products is consumed at the offices and works, and a considerable quantity of gas goes to waste and is reported as "Not accounted for". The value of products consumed in this manner, and for which the establishments receive no money value, amounts to $7,319,326, or 12.84 per cent of the total. If the total value of products is reduced by this amount there remains $49,667,964 as the value of products manufactured and sold. This amount appears in Table 1 as the "Net value of products".

The total quantity of gas sold during the census year of 1890 is reported as 32,524,699,855 cubic feet, valued at $46,237,287, or $1.42 per 1,000 cubic feet. Of this amount, 32,113,949,939 cubic feet, valued at $45,836,469, or $1.43 per 1,000 cubic feet, was sold for illuminating purposes; 73,391,071 cubic feet, valued at $103,420, or $1.41 per 1,000 feet, for power, and 337,358,845 cubic feet, valued at $297,398, or $0.88 per 1,000 cubic feet, for fuel. The quantity sold for illuminating purposes constituted 98.74 per cent of the total quantity sold, the quantity sold for power 0.22 per cent, and the quantity sold for fuel 1.04 per cent. The quantity sold for city consumption is reported as 218,108,846 cubic feet, and the number of consumers as 699,323.

Table 2, accompanying this report, presents detailed statistics concerning capital stock, value of improvements, machinery, and plant, also as to gas made, number of consumers, and city consumption. This table also shows separately the quantity of gas sold for illuminating, for power, and for fuel.

The data given for capital stock has been referred to under the head of "Capital". The value of improvements made during the year amounts to $3,360,977, which is 1.78 per cent of the total value of buildings and machinery. The value of improvements includes improvements of every character to buildings, benches and retorts, generators, holders, mains, and machinery.

Photometers are shown to have been used at the office or works in each state and territory, the total number in use being given as 773, or an average of 1.04 for each establishment. The number reported at the works is 561 and at the offices 212.

There are 1,396 gas holders reported, with a total capacity of 168,937,789 cubic feet, an average of 1.88 holders for each establishment, with an average capacity for each establishment of 227,679 cubic feet. The total daily capacity of the gas making plants is reported as 133,710,444 cubic feet, or an average of 180,203 cubic feet for each establishment. If all the establishments reporting were in operation 365 days of the year the average quantity of gas manufactured each day would be 100,053,456 cubic feet, or 134,843 cubic feet per day for each establishment, the daily capacity of the works exceeding the actual output by 45,360 cubic feet, while the capacity of the holders exceeds the daily output by 92,836 cubic feet.

There are 507 water gas generators reported, with a total capacity per each 24 hours of 115,436,200 cubic feet, the average capacity for each generator being 227,685 cubic feet, while the average capacity for each 24 hours for the 18 fuel gas generators reported is 102,222 cubic feet.

As no statistics were published at the Tenth Census concerning the manufacture of gas, and those given for 1870 fail to show the quantity of gas manufactured, questions concerning the quantity made, the quantity sold

for city consumption, and the number of consumers during the years 1870 and 1880 were included in the schedule of inquiry adopted at the Eleventh Census. The answers to these questions are too incomplete to permit of the presentation of the data.

Table 1, accompanying this report, presents in detail all the statistics concerning the manufacture of gas as reported by the 742 establishments reporting. Table 2 shows the data reported for capital stock, characteristics of machinery and plant, also the number of consumers, quantity of gas sold, and the quantity sold for city consumption.

TABLE 1.—DETAILED STATEMENT, GAS MANUFACTURE,

	STATES AND TERRITORIES.	Number of establishments reporting.	CAPITAL.								
			Aggregate.	Value of plant.				Live assets.			
				Total.	Land.	Buildings.	Machinery, tools, and implements.	Total.	Raw materials.	Stock in process and finished products on hand.	Cash, bills and accounts receivable, and all sundries not elsewhere reported.
1	The United States	742	$258,771,795	$234,401,052	$45,521,707	$35,048,435	$153,830,910	$24,370,743	$2,654,254	$1,914,136	$19,802,353
2	Alabama	7	825,988	763,200	55,500	187,800	519,900	62,788	3,520	2,197	57,071
3	Arkansas	7	507,942	494,892	52,600	28,900	413,392	13,050	3,931	1,125	7,994
4	California	44	13,065,857	10,853,371	1,984,324	1,173,350	7,695,697	2,212,486	371,185	1,532,488	308,813
5	Colorado	6	1,277,262	1,226,780	135,000	177,775	914,005	50,482	10,180	2,144	38,158
6	Connecticut	20	4,456,409	4,042,455	358,000	415,500	3,268,955	413,954	74,118	7,598	332,238
7	Delaware	4	594,215	544,477	40,000	54,000	450,477	49,738	10,619	1,020	38,099
8	Florida	7	747,779	606,608	30,511	53,500	522,597	141,171	6,023	2,522	132,626
9	Georgia	11	1,588,466	1,486,071	239,300	148,626	1,098,145	102,395	19,046	2,907	80,442
10	Illinois	36	43,542,852	41,743,300	12,188,400	8,188,600	21,366,300	1,799,552	267,298	31,627	1,500,627
11	Indiana	33	3,014,226	2,759,175	134,100	249,300	2,375,775	255,051	67,740	10,323	176,988
12	Iowa	19	2,127,067	2,013,690	301,200	190,600	1,521,890	113,377	19,031	4,582	89,764
13	Kansas	12	1,153,228	1,104,167	98,480	104,500	901,187	49,061	20,799	2,039	26,223
14	Kentucky	14	952,258	882,850	67,900	123,500	691,450	69,408	16,300	2,590	50,518
15	Louisiana	4	2,822,240	2,742,500	230,000	76,000	2,436,500	79,740	8,200	2,250	69,290
16	Maine	11	894,189	847,194	95,203	199,800	552,191	46,995	10,745	2,479	33,771
17	Maryland	7	11,615,815	11,252,045	3,519,500	1,028,000	6,704,545	363,770	69,475	4,428	289,867
18	Massachusetts	72	26,063,751	23,774,015	3,693,827	5,132,376	14,947,812	2,289,736	315,671	100,839	1,873,226
19	Michigan	27	4,030,363	3,464,098	355,150	434,263	2,674,685	566,265	46,028	12,165	508,072
20	Minnesota	10	4,946,448	4,691,100	756,200	220,500	3,714,400	255,348	33,450	9,555	212,343
21	Missouri	17	9,024,950	8,185,796	772,450	687,500	6,725,846	839,154	78,108	17,167	743,879
22	Nebraska	9	1,721,530	1,656,622	244,200	176,500	1,235,922	64,908	7,493	2,582	54,833
23	New Hampshire	13	767,966	637,257	37,800	87,000	512,457	130,709	11,796	2,666	116,247
24	New Jersey	33	4,819,011	4,383,060	804,283	658,027	2,920,750	435,951	28,906	5,125	401,920
25	New York	94	77,899,876	67,117,519	13,126,410	9,768,878	44,222,231	10,782,357	747,421	54,318	9,980,618
26	North Carolina	6	333,618	312,550	26,500	21,500	264,550	21,068	4,125	575	16,368
27	Ohio	61	8,909,934	8,532,667	1,430,295	1,013,069	6,089,303	368,267	28,668	16,371	323,228
28	Oregon	4	1,203,262	1,158,500	284,000	421,500	453,000	44,762	28,622	6,940	9,200
29	Pennsylvania	73	9,353,856	8,371,648	1,706,374	1,412,842	5,252,432	982,208	55,618	11,042	915,548
30	Rhode Island	7	4,118,273	3,770,257	684,300	467,809	2,618,148	348,016	81,834	17,478	248,704
31	Tennessee	8	2,217,081	2,003,100	153,700	276,500	1,572,900	213,981	14,593	8,751	190,637
32	Texas	8	1,575,131	1,449,289	240,000	139,000	1,070,289	125,842	23,904	3,855	98,083
33	Vermont	8	390,116	367,512	22,100	56,000	289,412	22,604	9,044	926	12,634
34	Virginia	6	709,935	652,079	58,000	158,000	436,079	57,856	5,172	2,750	49,934
35	Washington	4	605,700	573,200	197,500	62,000	313,700	32,500	12,000	2,000	18,500
36	West Virginia	3	714,431	681,400	22,000	34,800	624,600	33,031	1,500	544	30,987
37	Wisconsin	18	2,909,609	2,756,381	400,600	286,500	2,069,281	144,228	56,707	21,819	65,702
38	All other states and territories (a)	19	7,289,161	6,500,227	976,000	1,134,120	4,390,107	788,934	85,384	4,349	699,201

a Includes states and territories having less than 3 establishments, in order that the operations of individual establishments may not be disclosed. These establishments are distributed as follows: Arizona, 2; District of Columbia, 2; Mississippi, 2; Montana, 1; Nevada, 2; New Mexico, 2; North Dakota, 2; South Carolina, 2; South Dakota, 2; Utah, 1; Wyoming, 1.

BY STATES AND TERRITORIES: 1890.

Miscellaneous expenses.							Average number of employés and total wages.						
							Aggregates.		Officers or firm members actively engaged in the industry or in supervision.				
									Males above 16 years.		Females above 15 years.		
Total.	Rent paid for tenancy.	Taxes.	Insurance.	Repairs, ordinary, of buildings and machinery.	Interest paid on cash used in the business.	All sundries not elsewhere reported.	Average number.	Total wages.	Number.	Wages.	Number.	Wages.	
$7,799,385	$630,711	$2,227,122	$77,293	$1,926,283	$1,561,773	$1,376,203	14,860	$10,642,794	1,026	$1,431,359	8	$3,764	1
16,050	1,660	5,361	631	3,580	3,433	1,385	75	49,423	8	13,300	.....	.....	2
26,766	375	3,547	400	2,310	12,861	7,273	47	36,486	8	11,580	.....	.....	3
334,491	88,692	79,311	817	86,085	60,052	19,534	988	769,177	50	61,907	.....	.....	4
22,927	2,220	9,117	320	3,500	1,575	6,195	111	114,549	7	26,100	.....	.....	5
113,648	20,432	31,746	4,001	22,343	6,452	28,674	303	223,127	27	39,782	.....	.....	6
24,342	175	2,571	28	3,333	81	18,154	62	46,044	5	6,200	1	400	7
15,510	300	3,151	242	4,715	2,619	4,483	36	24,174	7	7,067	.....	.....	8
114,975	24,520	22,807	1,544	13,263	13,424	39,417	156	95,337	18	24,975	.....	.....	9
1,313,365	14,760	137,596	9,254	128,544	1,015,820	7,391	1,403	960,385	54	113,012	1	400	10
110,120	22,035	37,297	407	18,602	10,549	21,230	334	201,635	43	48,203	1	260	11
79,389	2,495	19,361	1,310	5,882	21,447	28,894	140	83,598	22	19,620	.....	.....	12
20,415	1,197	9,126	638	3,716	2,917	2,821	73	55,101	14	10,946	1	1,800	13
29,085	564	6,214	25	3,464	6,360	12,458	77	47,217	19	13,350	.....	.....	14
132,460	444	102,024	420	19,311	9,061	1,200	95	66,963	11	22,576	.....	.....	15
50,574	1,856	15,092	486	10,138	3,226	19,776	76	52,710	16	16,021	.....	.....	16
103,267	4,225	97,526	8	385	.....	1,123	202	144,361	13	26,350	.....	.....	17
848,895	11,133	276,395	10,170	300,040	32,069	219,088	1,423	1,062,382	130	194,827	1	204	18
79,969	4,535	26,695	964	16,873	6,391	24,511	257	159,333	38	35,492	1	300	19
79,746	5,276	15,457	1,920	5,606	1,567	49,920	224	137,660	8	7,870	.....	.....	20
175,713	15,552	34,142	2,755	26,553	22,991	73,720	555	370,949	21	56,176	.....	.....	21
108,179	2,376	10,716	684	4,772	35,960	53,671	67	47,695	7	10,900	.....	.....	22
65,295	34,530	13,753	818	5,096	1,464	9,634	108	71,622	13	14,495	.....	.....	23
462,513	234,392	89,172	3,892	92,825	10,209	41,023	531	363,395	58	63,486	.....	.....	24
2,521,614	47,666	898,537	12,753	941,088	136,032	485,538	4,239	3,486,509	132	281,640	.....	.....	25
11,612	80	4,359	700	2,480	1,840	2,153	50	20,340	7	4,730	.....	.....	26
110,222	4,983	44,197	805	31,896	13,484	14,857	935	481,974	82	71,711	1	100	27
14,580	1,620	8,444	1,021	3,100	80	315	34	29,040	4	2,000	.....	.....	28
256,788	53,166	45,861	1,749	36,238	35,100	84,674	603	358,300	101	51,825	.....	.....	29
85,487	2,480	27,941	738	46,937	2,861	4,530	396	202,780	5	13,900	.....	.....	30
89,768	2,760	40,127	2,600	11,204	4,693	28,384	132	88,130	14	20,850	.....	.....	31
30,549	1,034	10,111	349	10,556	1,650	6,849	99	73,283	10	15,625	.....	.....	32
10,566	1,325	2,507	129	517	42	6,046	26	14,515	7	4,486	.....	.....	33
17,502	990	11,563	16	4,643	.....	380	52	36,071	16	17,213	.....	.....	34
14,852	750	1,322	1,505	.....	3,000	8,275	50	55,560	5	15,900	.....	.....	35
10,140	240	820	78	2,288	142	6,572	72	39,558	3	3,600	.....	.....	36
97,445	1,807	23,423	985	30,367	31,476	9,387	261	171,161	16	21,823	1	300	37
200,476	18,066	68,733	12,131	24,033	50,845	26,668	508	342,190	27	61,821	.....	.....	38

TABLE 1.—DETAILED STATEMENT, GAS MANUFACTURE,

	STATES AND TERRITORIES.	AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.									
		Clerks.				Operatives and skilled.				Unskilled.	
		Males above 16 years.		Females above 15 years.		Males above 16 years.		Children.		Males above 16 years.	
		Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.	Number.	Wages.
1	The United States	784	$689,137	46	$18,909	7,650	$5,558,130	21	$3,815	5,301	$2,934,517
2	Alabama	5	2,580			24	13,874			38	19,669
3	Arkansas	6	5,100			25	16,011			8	3,795
4	California	62	74,963	5	2,880	304	261,843			567	367,584
5	Colorado	8	9,840			29	26,636			67	51,973
6	Connecticut	12	10,124	6	3,200	79	68,530			179	101,491
7	Delaware	2	1,620			15	11,668			39	26,156
8	Florida	1	925			21	14,030			7	2,152
9	Georgia	17	8,785			39	21,931			82	39,643
10	Illinois	81	63,992	4	1,940	205	149,079			1,118	631,962
11	Indiana	9	7,470	2	690	112	69,361			167	75,651
12	Iowa	5	3,447	1	100	69	42,270	3	310	37	17,491
13	Kansas	5	2,782			42	33,713			11	5,860
14	Kentucky	5	3,200			40	26,388	2	145	11	4,134
15	Louisiana	13	15,940			45	19,537			26	8,910
16	Maine	6	4,300	1	480	30	17,903			23	14,006
17	Maryland	32	26,884			125	74,868			32	16,259
18	Massachusetts	136	91,801	7	2,199	818	573,540			331	199,811
19	Michigan	15	10,890	2	676	158	93,657			43	18,318
20	Minnesota	18	19,160			64	43,190			134	67,440
21	Missouri	25	23,334	3	1,680	419	239,734			87	50,025
22	Nebraska	5	3,702			25	16,860			30	16,173
23	New Hampshire	6	3,301			42	26,713			47	27,113
24	New Jersey	24	18,425			195	146,220			254	135,204
25	New York	133	141,318	4	910	3,231	2,668,144	2	360	719	391,787
26	North Carolina	2	700			31	11,910			10	3,000
27	Ohio	32	19,754	5	1,470	596	291,577			219	97,362
28	Oregon	3	2,500			27	24,540				
29	Pennsylvania	27	26,439	2	624	316	202,908			156	76,291
30	Rhode Island	20	18,730	2	1,040	34	34,247			335	194,863
31	Tennessee	12	10,704			36	26,172			70	30,404
32	Texas	16	10,740			50	32,610			23	14,308
33	Vermont					15	8,137			4	1,892
34	Virginia					36	18,858				
35	Washington	4	6,900			28	21,240			13	11,520
36	West Virginia	3	2,500			42	24,998	14	3,000	10	5,460
37	Wisconsin	11	9,340	1	360	129	87,837			101	51,321
38	All other states and territories	23	26,887	1	660	154	97,396			303	155,426

BY STATES AND TERRITORIES: 1890—Continued.

AVERAGE NUMBER OF EMPLOYÉS AND TOTAL WAGES—continued.						WEEKLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS, FIRM MEMBERS, AND CLERKS, BUT NOT THOSE EMPLOYED ON PIECEWORK.												
Unskilled—Continued.		Piceworkers.				Males above 16 years.												
Children.		Males above 16 years.		Children.		Total number.	Under $5.	$5 and over but under $6.	$6 and over but under $7.	$7 and over but under $8.	$8 and over but under $9.	$9 and over but under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $20.	$20 and over but under $25.	$25 and over.	
Number.	Wages.	Number.	Wages.	Number.	Wages.													
17	$2,263	1	$150	6	$750	14,761	289	256	502	395	660	2,112	3,212	2,956	2,543	1,172	664	1
						75	3	6	12	7	2	18	3	3	12	2	7	2
						47		2		2	2	4	15	9	4	5	4	3
						983	4	7	1	31	2	6	33	566	151	85	97	4
						111							12	40	41	7	11	5
						297	1	2		2	27	53	57	83	26	30	16	6
						61		1				16	4	7	29	1	3	7
						36		6	1	2	2	4	7	2	6	3	3	8
						156	6	6	17	14	16	17	29	25	11	6	9	9
						1,458	10	9	4	8	27	407	643	73	193	35	49	10
						331	48	8	6	8	40	26	59	90	21	8	17	11
3	360					133	7		4	9	17	22	24	24	15	6	5	12
						72		4	1	2	4	13	6	17	18	3	4	13
						75	9	9	2	8	4	3	11	9	8	5	7	14
						95	1	19		36	2		3	9	14	1	10	15
						75	3	1	1	4		17	6	26	8	2	7	16
						202	4	4	2	32		60	5	67	24	1	3	17
						1,415	25	21	24	24	49	77	281	336	468	48	62	18
						254	11	14	8	19	16	42	52	43	24	14	11	19
						224		1	3	2	16	71	49	53	20	1	8	20
						552	7	5	3	9	19	33	363	54	41	6	12	21
						67	2	1	2		5	16	12	12	10	1	6	22
						108	2	2	3	1	7	21	31	25	7	6	3	23
						531	13	7	2	11	21	86	163	105	50	49	24	24
11	1,450	1	150	6	750	4,215	23	15	54	22	86	739	754	771	921	693	137	25
						50	8	15	4	9		2	1	6	4		1	26
						920	25	68	221	43	48	168	104	112	93	15	32	27
						34			2		2	2	1	3	22	1	1	28
1	273					600	58	14	34	45	44	81	71	122	91	14	26	29
						304		2		1	25	3	252	55	42	4	10	30
						132	2	3	14	30	7	11	27	11	6	6	15	31
						99			3	2	3	9	14	35	24	2	7	32
						26	3	2	1		5		7	2	2	4		33
						52	2		1	6	4	11	3	8	10	3	4	34
						50							2	19	20	2	7	35
						58	1					1	16	35	2	1	2	36
2	180					257	2	2	2	2	3	61	70	38	64	4	9	37
						507	9		70	4	155	12	22	61	41	98	35	38

TABLE 1.—DETAILED STATEMENT, GAS MANUFACTURE,

	STATES AND TERRITORIES.	WEEKLY RATES OF WAGES PAID AND AVERAGE NUMBER OF EMPLOYÉS AT EACH RATE, INCLUDING OFFICERS, FIRM MEMBERS, AND CLERKS, BUT NOT THOSE EMPLOYED ON PIECEWORK—continued.																
		Females above 15 years.												Children.				
		Total number.	Under $5.	$5 and over but under $6.	$6 and over but under $7.	$7 and over but under $8.	$8 and over but under $9.	$9 and over but under $10.	$10 and over but under $12.	$12 and over but under $15.	$15 and over but under $20.	$20 and over but under $25.	$25 and over.	Total number.	Under $5.	$5 and over but under $6.	$6 and over but under $7.	$7 and over.
1	The United States	54	10	7	9	6	6	2	8	2	3		1	38	37	1		
2	Alabama																	
3	Arkansas																	
4	California	5						1	4									
5	Colorado																	
6	Connecticut	6					3		2		1							
7	Delaware	1				1												
8	Florida																	
9	Georgia																	
10	Illinois	5	1	1		1			1		1							
11	Indiana	3		2		1												
12	Iowa	1	1											6	6			
13	Kansas	1											1					
14	Kentucky													2	2			
15	Louisiana																	
16	Maine	1						1										
17	Maryland																	
18	Massachusetts	8	3	1	1	2	1											
19	Michigan	3		1	2													
20	Minnesota																	
21	Missouri	3			1				1		1							
22	Nebraska																	
23	New Hampshire																	
24	New Jersey																	
25	New York	4	2		2									13	13			
26	North Carolina																	
27	Ohio	6	3		2		1											
28	Oregon																	
29	Pennsylvania	2		1		1								1		1		
30	Rhode Island	2					1			1								
31	Tennessee																	
32	Texas																	
33	Vermont																	
34	Virginia																	
35	Washington																	
36	West Virginia																	
37	Wisconsin	2		1	1									14	14			
38	All other states and territories	1								1				2	2			

BY STATES AND TERRITORIES: 1890—Continued.

Aggregate cost.	MATERIALS USED.														
	Coking coal.		Cannel coal.		Anthracite coal (in water gas generators).		Slack.		Bituminous coal (in water gas generators).		Coke (in water gas generators not made at works).		Crude oil.		
	Tons.	Cost.	Tons.	Cost.	Tons.	Cost.	Tons.	Cost.	Tons.	Cost.	Bushels.	Cost.	Barrels.	Cost.	
$14,037,087	1,911,661	$7,022,812	56,715	$359,226	313,170	$1,338,303	14,650	$24,568	14,359	$52,942	1,922,733	$190,342	740,207	$882,812	1
36,928	11,973	29,102	630	3,900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
30,890	13,520	16,659	50	350	.....	.....	1,240	1,940	.....	.....	13,310	2,659	1,585	2,155	3
1,175,135	93,617	751,016	2,032	26,654	7,098	72,817	522	1,540	51	506	36,130	10,066	83,517	243,290	4
113,022	31,107	105,008	.....	.....	.....	.....	54	54	.....	.....	.....	.....	365	913	5
276,862	46,064	187,975	342	3,418	3,926	20,625	12	30	.....	.....	8,000	560	14,248	16,466	6
49,122	10,730	38,690	.....	.....	784	3,060	.....	.....	.....	.....	.....	.....	.....	.....	7
25,880	914	4,272	.....	.....	552	2,876	11	22	766	3,361	.....	.....	3,800	9,537	8
135,698	27,861	95,176	135	675	1,431	7,691	.....	.....	.....	.....	61,480	3,676	9,669	17,326	9
829,995	42,633	131,750	2,147	8,050	44,587	201,324	1,714	2,081	.....	.....	1,025,280	107,523	330,436	257,878	10
170,023	41,742	114,590	1,730	5,539	883	4,716	835	985	.....	.....	53,850	4,786	4,523	8,710	11
104,265	14,199	66,062	992	4,968	544	3,679	70	81	100	250	30,525	3,397	6,131	7,175	12
52,010	10,278	31,776	.....	.....	339	3,058	570	1,176	205	449	13,548	1,729	2,158	3,741	13
48,137	9,597	23,882	15	72	1,206	4,643	210	287	.....	.....	.....	.....	3,600	7,200	14
112,965	6,058	23,917	6	40	1,501	10,000	.....	.....	.....	.....	87,000	8,700	.....	.....	15
68,999	11,464	51,736	35	525	728	4,929	.....	.....	48	250	.....	.....	2,674	3,854	16
445,584	2,284	6,869	3,910	15,265	25,182	99,401	.....	.....	.....	.....	18,400	1,640	.....	.....	17
1,747,013	307,115	1,257,545	4,308	33,926	2,347	24,805	25	108	1,000	4,000	.....	.....	15,242	22,196	18
181,958	42,083	129,573	1,519	5,959	4,443	15,948	182	568	.....	.....	18,956	1,549	6,845	5,985	19
180,912	12,236	54,742	116	775	4,020	23,761	1,736	5,158	.....	.....	.....	.....	35,886	40,297	20
458,830	108,584	362,767	310	1,403	328	2,943	900	540	.....	.....	.....	.....	22,090	24,354	21
106,387	1,896	10,675	20	235	3,414	18,470	1,473	3,265	.....	.....	185,780	18,578	19,090	23,576	22
101,835	14,523	77,181	131	1,312	756	3,963	.....	.....	160	525	.....	.....	5,659	6,615	23
428,612	40,557	174,205	7,391	35,701	13,396	52,897	48	48	8,500	34,000	18,725	1,311	44,882	48,602	24
4,944,042	559,722	1,850,813	20,638	141,311	169,921	650,929	137	145	.....	.....	11,030	1,112	55,781	50,828	25
27,972	3,900	15,980	.....	.....	500	3,200	.....	.....	.....	.....	.....	.....	1,800	3,050	26
494,558	144,858	376,441	2,619	9,523	375	1,950	2,659	3,709	313	534	37,870	4,551	23,266	17,239	27
69,035	8,881	58,170	452	8,888	.....	.....	.....	.....	.....	.....	.....	.....	200	400	28
389,798	68,430	157,973	552	2,855	8,765	26,094	2,072	2,570	3,227	8,788	204,996	11,228	21,254	24,675	29
252,708	50,026	186,763	3,225	21,600	1,723	8,223	.....	.....	.....	.....	70,476	4,229	12,035	13,975	30
124,442	27,584	77,226	161	1,285	.....	.....	.....	.....	.....	.....	9,061	906	1,400	2,575	31
92,793	16,705	85,808	20	180	.....	.....	.....	.....	.....	.....	.....	.....	980	2,031	32
14,223	.....	.....	.....	.....	837	4,502	.....	.....	49	279	6,000	1,050	2,048	2,407	33
44,384	7,186	24,249	26	171	938	3,977	.....	.....	.....	.....	.....	.....	.....	.....	34
53,041	9,033	43,635	1,493	8,457	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35
30,859	16,560	26,427	.....	.....	65	390	.....	.....	.....	.....	.....	.....	.....	.....	36
192,114	40,479	130,302	1,119	5,679	2,391	12,397	180	261	.....	.....	5,040	540	3,176	4,510	37
426,056	57,262	243,689	791	10,501	10,190	44,936	.....	.....	.....	.....	7,276	1,152	5,849	11,192	38

TABLE I.—DETAILED STATEMENT, GAS MANUFACTURE,

	STATES AND TERRITORIES.	MATERIALS USED—continued.											
		Prepared or gas oil.		Naphtha.		Natural gas.		Oxide of iron.		Lime.		Fuel.	
												Total cost.	Wood.
		Barrels.	Cost.	Gallons.	Cost.	Feet.	Cost.	Bushels.	Cost.	Bushels.	Cost.		Cost.
1	The United States	126,839	$212,728	51,909,055	$2,387,465	153,992,364	$19,389	239,727	$51,936	4,596,632	$426,590	$524,249	$25,233
2	Alabama									13,005	2,411	1,450	
3	Arkansas	36	126					150	150	7,905	1,464	5,087	4,555
4	California	1,000	3,250	27,500	2,450			1,458	1,417	107,110	37,217	11,879	8,203
5	Colorado	236	1,357							15,324	3,208	1,328	258
6	Connecticut	1,988	6,541	402,726	19,700					94,953	13,133	8,218	
7	Delaware			148,571	5,992			700	70	1,300	200		
8	Florida	911	2,668					364	101	9,798	652	2,079	1,480
9	Georgia			77,748	5,286			3,958	1,031	15,604	1,770	2,234	
10	Illinois	300	300	1,504,778	45,264			38,222	9,034	41,458	8,878	56,927	
11	Indiana	464	1,356	210,602	10,208	15,900,000	825	2,135	641	23,575	3,885	13,289	450
12	Iowa			141,126	7,116			5,813	354	15,582	2,404	3,132	24
13	Kansas			62,191	3,659					26,271	4,590	996	
14	Kentucky	365	912	96,652	5,479			700	350	5,852	1,267	3,913	
15	Louisiana			1,000,000	67,500					21,258	1,328	1,100	
16	Maine	400	1,195	29,272	1,830			4,640	464	10,564	3,054	1,106	
17	Maryland			6,149,642	263,924			3,948	1,393	459,440	11,338	28,583	67
18	Massachusetts	2,882	6,801	932,218	77,415			18,120	2,865	168,611	26,196	11,071	933
19	Michigan			165,155	7,103			3,782	541	21,497	3,087	7,859	800
20	Minnesota			300,200	17,302			150	90	32,043	7,516	8,815	1,376
21	Missouri			480,388	25,885			13,148	2,716	221,702	24,199	11,416	165
22	Nebraska	1,200	4,230	167,110	11,865			4,305	2,483	57,634	3,077	7,258	
23	New Hampshire	462	785	46,989	3,144			100	25	19,300	2,776	5,359	1,003
24	New Jersey	2	10	921,034	42,110			74,314	3,245	183,733	15,426	17,051	30
25	New York	104,876	166,551	33,203,211	1,508,719	3,732,572	4,998	38,243	15,682	2,428,881	188,599	249,170	1,203
26	North Carolina			46,500	2,613					1,660	453	1,666	1,666
27	Ohio	820	935	120,626	3,886	21,572,092	2,243	7,820	3,125	73,799	8,159	6,092	24
28	Oregon							280	564	3,000	693		
29	Pennsylvania	9,927	12,188	2,196,545	89,827	112,787,700	11,323	710	323	112,876	15,168	21,562	26
30	Rhode Island	95	140					5,750	575	85,448	11,293	3,389	
31	Tennessee			377,934	20,820			2,440	1,701	14,990	2,286	16,072	
32	Texas			1,277	127					13,903	2,300	547	547
33	Vermont	455	1,243	62,492	2,505					5,525	672	1,499	300
34	Virginia			241,250	13,269			25	20	10,325	1,133	1,440	
35	Washington												
36	West Virginia			16,500	660			320	124	1,086	550	100	100
37	Wisconsin			701,171	29,914					10,940	1,547	1,835	
38	All other states and territories	420	2,170	2,047,647	91,884			5,723	1,285	5,194	1,006	5,981	1,490
								2,409	1,567	255,456	13,649	4,146	344

BY STATES AND TERRITORIES: 1890—Continued.

MATERIALS USED—continued.					PRODUCTS.							
Fuel—Continued.				All other materials.	Total value.	Gas manufactured.						
						Total.		Coal.		Water.		
Anthracite coal.	Bituminous coal.	Coke not made at works.	Natural gas.			Cubic feet.	Value.	Cubic feet.	Value.	Cubic feet.	Value.	
Cost.	Cost.	Cost.	Cost.	Cost.								
$163,772	$100,515	$216,240	$18,489	$543,725	$56,987,290	36,519,511,510	$51,866,831	19,091,449,238	$28,325,745	16,289,044,897	$21,686,732	1
.....	1,210	240	.....	65	206,623	101,401,500	178,036	101,401,500	178,036	.....	.....	2
.....	532	.....	.....	300	153,546	57,608,600	144,221	30,974,200	79,035	18,738,800	45,347	3
780	1,125	1,771	.....	13,033	3,681,705	1,518,768,849	3,331,337	1,050,311,465	2,350,148	450,356,000	925,693	4
470	.....	600	.....	1,154	561,667	299,314,500	487,259	297,694,500	481,160	.....	.....	5
4,036	2,905	1,277	.....	187	1,200,575	640,032,021	1,046,408	411,515,502	662,488	221,761,519	368,785	6
.....	.....	.....	.....	1,101	191,451	134,624,150	169,766	99,205,150	126,555	35,419,000	43,211	7
590	.....	.....	.....	312	115,949	46,545,000	114,441	9,886,000	18,825	33,277,000	77,186	8
1,357	160	717	.....	1,427	526,770	322,520,767	445,903	211,287,567	290,730	110,742,200	152,673	9
2,885	38,461	15,581	.....	977	5,204,206	3,906,863,870	5,058,681	403,678,870	662,396	3,499,885,000	4,389,135	10
.....	2,598	.....	10,241	484	873,750	524,881,310	738,772	393,278,310	571,808	122,676,000	146,054	11
1,786	1,068	254	.....	5,647	392,090	183,218,600	349,676	120,619,600	217,621	55,299,000	110,755	12
.....	766	5	225	836	232,665	111,924,985	195,537	87,113,065	146,767	16,241,000	32,506	13
.....	533	3,380	.....	132	226,588	117,452,400	204,531	89,626,200	134,521	23,856,000	50,000	14
1,100	.....	.....	.....	380	685,976	207,998,900	665,631	57,998,900	166,131	96,000,000	319,680	15
829	277	.....	.....	56	311,381	137,065,200	267,883	112,110,300	217,423	23,459,900	46,668	16
1,939	16,092	10,485	.....	17,081	1,776,867	1,401,959,800	1,770,062	18,596,200	32,442	1,383,363,600	1,737,620	17
3,343	3,633	3,162	.....	280,085	6,208,125	3,601,595,243	5,236,787	3,368,335,071	4,923,909	223,401,788	275,413	18
1,501	483	5,075	.....	3,786	898,418	495,969,010	741,702	435,272,010	639,076	42,164,000	67,917	19
.....	3,839	3,600	.....	22,456	846,103	458,899,000	772,414	117,737,000	199,178	325,604,000	547,306	20
8,000	3,251	.....	.....	2,607	2,007,833	1,273,522,140	1,722,326	1,079,300,140	1,573,355	193,299,000	142,966	21
.....	7,258	.....	.....	2,705	394,365	222,537,790	385,054	10,083,790	22,906	192,994,000	327,058	22
2,640	1,716	.....	.....	150	358,078	193,576,579	318,010	149,208,000	234,710	26,649,180	42,219	23
8,436	425	8,160	.....	3,916	2,036,226	1,137,957,197	1,914,646	525,932,129	843,288	579,733,268	1,006,775	24
107,388	2,669	137,570	250	115,185	18,716,683	13,208,942,480	17,378,448	5,619,222,290	7,800,656	6,976,301,390	8,638,709	25
.....	.....	.....	.....	1,010	83,366	46,267,125	82,376	27,500,000	55,000	19,890,000	21,380	26
48	1,383	3,321	1,316	56,171	2,032,050	1,553,092,866	1,799,352	1,351,084,244	1,535,485	195,023,022	247,796	27
.....	.....	.....	.....	320	239,458	85,895,000	209,123	85,895,000	209,123	.....	.....	28
12,949	2,099	931	4,657	5,224	1,955,893	1,531,430,048	1,831,894	637,446,859	785,595	692,449,130	944,575	29
.....	.....	3,389	.....	2,512	812,013	645,671,600	685,612	534,824,000	568,084	110,847,600	117,528	30
.....	.....	.....	.....	971	532,462	285,299,900	462,728	229,299,900	361,978	.....	.....	31
.....	100	16,572	.....	1,800	387,729	147,193,176	346,197	145,003,176	340,722	.....	.....	32
.....	.....	.....	.....	6	81,050	36,367,704	81,032	.....	.....	26,580,600	56,478	33
1,109	.....	.....	.....	125	192,984	103,130,200	173,311	62,565,500	116,521	40,564,700	56,790	34
.....	1,440	.....	.....	175	213,473	81,461,500	190,790	81,446,500	190,734	.....	.....	35
.....	.....	.....	.....	.....	144,971	141,419,900	124,750	139,769,900	121,370	1,650,000	3,380	36
.....	35	.....	1,800	.....	819,596	558,042,200	704,144	407,904,400	503,896	146,555,800	189,625	37
1,646	2,845	.....	.....	179	1,695,005	1,005,048,400	1,537,991	588,922,000	964,073	413,262,400	555,204	38
940	2,712	150	.....	1,170								

TABLE 1.—DETAILED STATEMENT, GAS MANUFACTURE,

	STATES AND TERRITORIES.	PRODUCTS—continued.							
		Gas manufactured—Continued.						By-products.	
		Oil.		Wood.		Fuel (noncarbureted).		Coke.	
		Cubic feet.	Value.	Cubic feet.	Value.	Cubic feet.	Value.	Bushels.	Value.
1	The United States	962,585,650	$1,782,803	13,527,725	$46,391	162,904,000	$25,160	56,624,344	$3,868,924
2	Alabama							344,620	22,467
3	Arkansas			7,895,600	19,839			80,675	6,040
4	California	14,361,384	35,596	3,740,000	20,500			1,334,820	300,566
5	Colorado	1,620,000	6,099					484,312	48,665
6	Connecticut	6,755,000	15,135					1,322,527	113,487
7	Delaware							328,000	17,240
8	Florida	3,382,000	18,430					12,332	1,293
9	Georgia	500,000	2,500					650,536	58,743
10	Illinois	3,300,000	7,150					1,187,465	79,858
11	Indiana	8,930,000	20,910					1,321,825	89,007
12	Iowa	7,900,000	21,300					419,555	32,362
13	Kansas	8,570,920	16,264					290,800	29,901
14	Kentucky	3,970,200	19,110					240,576	14,019
15	Louisiana	54,000,000	179,820					181,394	17,689
16	Maine	1,265,000	3,332			230,000	460	388,506	33,520
17	Maryland							95,491	4,645
18	Massachusetts	9,858,384	37,465					10,285,234	779,657
19	Michigan	18,533,000	34,709					1,326,537	112,961
20	Minnesota	15,558,000	25,930					363,994	47,055
21	Missouri	923,000	6,005					2,740,551	163,332
22	Nebraska	19,460,000	35,090					34,500	5,560
23	New Hampshire	17,719,399	41,081					332,881	32,379
24	New Jersey	32,291,800	64,583					1,438,418	85,435
25	New York	613,418,800	939,083					19,112,105	1,058,266
26	North Carolina			1,877,125	5,996			3,660	300
27	Ohio	5,311,600	15,521			1,674,000	550	3,302,502	159,982
28	Oregon							295,857	23,493
29	Pennsylvania	40,534,059	77,574			161,000,000	24,150	2,042,780	88,406
30	Rhode Island							1,857,745	90,382
31	Tennessee	56,000,000	100,750					815,902	59,152
32	Texas	2,190,000	5,475					375,628	30,236
33	Vermont	9,787,104	24,554						
34	Virginia							151,150	15,423
35	Washington			15,000	56			179,570	16,829
36	West Virginia							325,088	9,195
37	Wisconsin	3,582,000	10,623					961,321	90,952
38	All other states and territories	2,864,000	18,714					1,989,547	124,367

BY STATES AND TERRITORIES: 1890—Continued.

PRODUCTS—continued.				Net value of products.	PRODUCTS (INCLUDED IN PRECEDING COLUMNS) CONSUMED AT OFFICES OR WORKS AND UNACCOUNTED FOR.						
By-products—Continued.					Total value.	Gas used at office or works.		Gas made and unaccounted for.		By-products used at works.	
Tar.		Ammoniacal liquor.									
Gallons.	Value.	Gallons.	Value.			Cubic feet.	Value.	Cubic feet.	Value.	Value.	
24,401,836	$992,565	38,180,930	$258,970	$49,667,964	$7,319,326	309,471,410	$450,221	3,685,340,245	$5,179,323	$1,689,782	1
143,264	6,120	.....	.....	171,958	34,665	3,608,200	8,424	11,333,340	13,611	12,630	2
35,624	3,285	.....	.....	132,667	20,879	1,670,000	2,700	5,275,600	13,280	4,899	3
673,734	49,802	.....	.....	3,281,570	400,135	7,569,783	20,120	140,590,647	308,211	71,804	4
338,596	25,743	.....	.....	453,515	108,152	4,821,800	7,813	55,467,700	90,733	9,606	5
618,310	32,416	389,780	8,264	1,068,248	132,327	11,335,654	16,722	47,992,885	78,282	37,323	6
122,850	3,879	51,752	566	172,890	18,561	331,250	490	8,241,800	10,897	7,174	7
6,700	275	.....	.....	108,160	7,789	350,000	695	2,495,890	6,083	1,011	8
271,130	13,524	430,000	8,600	441,517	85,253	1,930,467	3,205	44,475,500	54,847	27,201	9
2,327,511	62,167	650,000	3,500	4,988,310	215,896	4,936,200	10,246	122,921,440	174,610	31,040	10
1,253,302	40,971	125,000	5,000	755,890	117,860	7,496,500	10,942	56,626,710	78,105	28,813	11
166,298	10,052	.....	.....	338,212	53,878	1,774,600	3,201	19,920,300	35,018	15,659	12
89,693	7,167	.....	.....	185,551	47,114	1,720,400	2,832	14,832,285	24,817	19,465	13
123,146	8,038	.....	.....	195,404	31,184	2,343,760	3,706	10,650,530	18,361	9,117	14
65,100	2,656	.....	.....	658,788	27,188	2,821,800	8,988	4,960,570	14,654	3,516	15
190,256	9,978	.....	.....	256,576	54,805	2,680,740	4,471	17,082,900	36,103	14,231	16
69,192	2,160	.....	.....	1,407,074	309,793	8,425,080	10,907	235,856,600	296,958	1,928	17
4,032,818	145,322	4,019,560	40,359	5,202,483	910,642	45,263,828	62,509	288,037,925	413,780	434,353	18
534,470	39,098	15,082,632	4,657	753,092	145,326	5,953,167	10,849	44,119,443	71,045	63,432	19
368,160	26,634	.....	.....	753,657	92,446	4,940,000	9,552	37,949,190	64,759	18,135	20
1,438,071	78,504	3,657,758	43,671	1,716,677	291,156	7,563,785	10,073	200,727,861	257,851	2[illegible],232	21
75,990	3,751	.....	.....	360,460	33,905	1,446,700	2,781	17,254,490	27,428	3,696	22
182,468	8,289	.....	.....	311,497	47,181	2,384,700	4,443	13,792,278	22,574	20,164	23
650,085	24,608	130,900	5,537	1,777,854	252,372	4,864,565	9,541	127,406,667	214,611	28,220	24
6,008,015	177,228	9,721,131	102,741	15,949,259	2,767,424	97,021,430	133,456	1,608,713,625	2,123,843	510,125	25
12,400	630	.....	.....	76,903	6,403	510,000	1,020	2,582,300	5,383	.....	26
1,154,143	62,167	718,659	10,549	1,765,418	266,632	14,623,900	17,331	151,883,660	168,568	80,733	27
68,420	6,842	.....	.....	215,416	24,042	291,200	822	7,550,000	20,062	3,158	28
824,100	28,455	807,110	7,138	1,763,602	192,231	13,120,208	17,369	100,540,010	131,912	42,950	39
748,821	20,976	1,710,400	9,043	675,289	136,724	11,024,600	15,357	54,830,900	73,684	47,683	30
279,208	10,582	.....	.....	472,426	60,036	4,109,900	5,188	34,053,750	36,989	17,859	31
175,261	10,696	15,000	600	330,497	57,232	1,516,900	3,850	21,394,862	47,401	5,981	32
720	18	.....	.....	72,402	8,648	1,000,504	3,465	2,353,600	5,183	.....	33
79,658	4,250	.....	.....	163,764	29,220	408,500	765	11,402,300	19,655	8,800	34
63,364	5,854	.....	.....	181,891	31,582	1,343,500	3,334	8,775,820	19,984	8,264	35
221,350	9,445	303,200	1,581	118,843	26,128	22,900,980	11,803	16,830,320	13,650	675	36
376,823	22,413	83,480	2,087	707,914	111,682	1,583,120	2,774	70,021,470	76,944	31,964	37
612,774	27,570	284,568	5,077	1,532,470	162,835	4,974,749	8,477	66,418,168	109,447	44,911	38

TABLE 2.—CAPITAL STOCK, IMPROVEMENTS, CHARACTERISTICS OF MACHINERY AND PLANT, GAS SOLD,

	STATES AND TERRITORIES.	Number of establishments reporting.	CAPITAL STOCK.								Total value of all improvements during the year.
			Total value.	Number of shares.							
				Total.	Issued.	Owned by—					
						Males.	Females.	Residents of state.	Nonresidents of state.	Residents of foreign countries.	
1	The United States	742	$229,746,552	4,083,481	2,328,852	1,865,048	463,804	1,644,390	659,303	25,159	$3,360,977
2	Alabama	7	1,117,300	11,173	11,148	8,558	2,590	5,987	5,161	.....	35,250
3	Arkansas	7	518,850	20,754	20,754	20,404	350	16,683	4,071	.....	45,000
4	California	44	18,312,000	202,200	193,937	159,766	34,171	173,136	10,619	10,182	128,326
5	Colorado	6	1,580,000	13,100	5,100	5,098	2	3,891	1,209	.....	3,400
6	Connecticut	20	3,807,500	145,700	105,700	73,642	32,058	83,890	20,970	840	56,267
7	Delaware	4	510,370	13,845	13,845	10,086	3,759	9,820	4,025	.....	1,565
8	Florida	7	586,000	5,460	5,230	4,967	263	1,278	3,927	25	16,095
9	Georgia	11	1,532,400	46,566	46,048	44,028	2,020	9,369	36,050	620	131,469
10	Illinois	36	34,913,550	744,775	35,265	28,963	6,302	27,827	7,113	325	85,974
11	Indiana	33	2,665,775	61,785	60,407	48,891	11,516	49,033	10,074	1,300	15,939
12	Iowa	19	1,859,500	23,567	23,317	20,408	2,909	11,125	12,192	.....	69,812
13	Kansas	12	1,160,000	11,160	11,160	10,520	640	5,895	5,265	.....	3,207
14	Kentucky	14	975,700	16,807	16,657	13,754	2,903	11,953	4,686	18	7,035
15	Louisiana	4	4,320,000	45,300	5,000	4,950	50	4,510	490	.....	9,000
16	Maine	11	1,012,500	13,825	11,856	9,494	2,362	9,858	1,982	16	6,600
17	Maryland	7	11,341,500	120,225	117,826	94,331	23,495	85,401	32,425	.....	.....
18	Massachusetts	72	13,008,400	125,796	118,410	94,593	23,817	87,002	31,353	55	169,203
19	Michigan	27	3,010,900	59,318	51,556	39,872	11,684	34,320	16,417	819	33,347
20	Minnesota	10	3,710,000	67,200	63,200	53,652	9,548	22,728	40,422	50	194,258
21	Missouri	17	11,658,000	117,480	117,480	105,143	12,337	34,023	78,648	4,809	396,373
22	Nebraska	9	1,095,000	61,050	58,600	58,600	.....	51,766	6,834	.....	48,724
23	New Hampshire	13	914,600	14,166	13,617	11,036	2,581	10,300	3,293	24	8,074
24	New Jersey	33	5,489,370	189,529	157,421	118,785	38,636	106,517	47,816	3,088	83,199
25	New York	94	68,699,402	870,530	321,265	257,935	63,330	267,088	53,418	759	1,063,020
26	North Carolina	6	356,000	5,700	4,691	3,985	706	1,372	3,137	182	500
27	Ohio	61	8,462,550	448,263	175,233	141,262	33,971	88,244	86,989	.....	74,560
28	Oregon	4	1,175,000	12,250	11,250	10,410	840	7,700	3,550	.....	1,000
29	Pennsylvania	73	8,099,585	242,986	230,666	172,187	58,479	207,044	23,622	.....	51,834
30	Rhode Island	7	3,452,500	64,150	60,450	42,348	18,102	55,365	5,085	.....	123,900
31	Tennessee	8	1,884,400	30,478	30,478	26,302	4,176	18,622	11,632	224	176,730
32	Texas	8	1,800,000	13,000	13,000	12,610	390	8,860	3,890	250	2,800
33	Vermont	8	305,850	10,445	10,445	8,668	1,777	7,536	2,909	.....	1,758
34	Virginia	6	479,250	10,920	10,920	6,804	4,116	8,920	2,000	.....	300
35	Washington	4	1,410,000	17,200	4,700	4,250	450	3,650	1,050	.....	14,500
36	West Virginia	3	687,875	1,070	1,070	823	247	892	178	.....	6,000
37	Wisconsin	18	2,874,825	43,603	42,583	35,150	7,433	21,968	20,549	66	46,609
38	All other states and territories (a)	19	4,960,100	182,105	148,567	102,773	45,794	90,817	56,252	1,498	249,409

a Includes states and territories having less than 3 establishments, in order that the operations of individual establishments may not be disclosed. These establishments are distributed as follows: Arizona, 2; District of Columbia, 2; Mississippi, 2; Montana, 1; Nevada, 2; New Mexico, 2; North Dakota, 2; South Carolina, 2; South Dakota, 2; Utah, 1; Wyoming, 1.

NUMBER OF CONSUMERS, AND CITY CONSUMPTION, GAS MANUFACTURE, BY STATES AND TERRITORIES: 1890.

Number of photometers used.		Gas holders.		Station meters in use.		Regenerative lamps.	Burners used in incandescent gas lighting.	Steam power.		Horse power.	
At works.	At offices.	Number.	Capacity. (Cubic feet.)	Number.	Capacity. (Cubic feet.)	Number.	Number.	Number of boilers.	Number of engines.		
561	212	1,396	168,937,789	601	242,730,900	7,544	2,754	992	981	26,390	1
4	2	11	493,000	7	1,770,000	14	.....	6	6	34	2
4	1	9	341,096	6	770,000	25	.....	6	7	62	3
25	11	78	5,156,500	21	12,352,200	58	300	33	24	1,132	4
3	2	12	1,048,000	6	1,670,000	158	.....	7	6	92	5
13	6	34	2,339,000	16	3,646,000	105	.....	26	24	628	6
1	1	9	741,000	4	1,355,000	21	.....	3	5	40	7
6	1	10	311,000	4	1,189,000	57	.....	10	9	183	8
8	5	21	1,639,500	10	3,128,000	13	.....	16	15	467	9
33	12	69	16,342,000	41	20,918,800	137	.....	66	59	3,058	10
23	9	48	2,589,000	23	4,490,000	137	.....	28	32	458	11
10	4	29	827,000	13	2,269,000	85	.....	19	21	761	12
10	1	13	556,000	7	805,000	81	.....	12	13	430	13
4	1	18	459,000	11	1,575,000	8	.....	11	11	268	14
5	1	10	1,401,500	6	1,860,000	.....	.....	10	6	207	15
11	1	19	830,000	9	1,176,000	66	6	13	11	181	16
8	1	24	5,543,716	13	9,262,000	11	.....	18	12	128	17
77	42	161	23,307,213	63	24,441,000	2,169	565	98	97	2,477	18
19	6	39	2,684,000	18	2,915,000	542	.....	24	29	355	19
8	.....	17	2,880,496	7	2,200,000	260	.....	13	14	737	20
9	5	31	7,207,000	17	9,515,000	138	.....	30	26	610	21
5	1	14	1,403,000	4	1,215,000	59	.....	5	5	465	22
16	4	33	1,256,000	9	2,150,000	155	100	10	10	192	23
32	8	60	5,705,800	32	7,906,800	377	65	51	47	777	24
80	27	250	54,700,000	94	76,707,500	494	435	217	216	7,269	25
3	.....	11	290,000	2	175,000	20	.....	4	4	88	26
34	21	89	5,193,200	43	8,719,000	867	580	64	74	1,241	27
2	.....	5	470,800	1	500,000	22	.....	1	1	10	28
41	13	118	6,807,573	43	11,838,000	246	10	87	85	1,332	29
15	3	26	3,886,000	10	5,015,000	183	.....	12	12	302	30
3	3	16	1,862,000	5	3,770,000	23	.....	10	11	260	31
5	4	11	786,000	7	1,305,000	155	540	9	9	68	32
6	1	15	177,500	.....	.....	3	10	6	9	182	33
5	3	11	704,540	7	850,000	70	.....	4	4	35	34
3	1	6	343,000	3	580,000	12	.....	6	6	195	35
2	1	6	841,300	1	900,000	.....	.....	4	5	49	36
14	4	29	2,692,865	16	3,395,000	90	108	17	21	472	37
14	6	34	5,113,100	22	10,316,600	683	35	36	35	1,145	38

TABLE 2.—CAPITAL STOCK, IMPROVEMENTS, CHARACTERISTICS OF MACHINERY AND PLANT, GAS SOLD, NUMBER

	STATES AND TERRITORIES.	GAS MAKING PLANT.										
		Coal gas benches.										Total daily capacity of plant. (Cubic feet.)
		1's	2's	3's	4's	5's	6's	7's	8's	9's	Regenerative.	
		Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	
1	The United States	26	79	717	32	691	1,373	32	1	90	272	133,710,444
2	Alabama		2	2		16	12					60,000
3	Arkansas			4		6	3					540,000
4	California	5	9	38	2	58	86				20	3,618,000
5	Colorado			26		8						24,000
6	Connecticut			9		1	35				21	1,841,000
7	Delaware		2	3		16	6					300,000
8	Florida			4			2					608,000
9	Georgia		4	19		7	25				1	1,120,000
10	Illinois			56	1	16	31				3	16,865,000
11	Indiana		3	21		29	55				3	1,165,000
12	Iowa	3	3	17		8	20	1				1,308,700
13	Kansas		1	11	4	1	3					370,000
14	Kentucky			12		10	10					363,000
15	Louisiana			5		2	7					1,024,000
16	Maine	1	1	12		26	1				9	410,000
17	Maryland		3	8								13,950,000
18	Massachusetts	5	13	38	4	67	363			6	9	6,670,500
19	Michigan		2	24	1	25	45				1	1,125,000
20	Minnesota			4	3	1				8	4	3,473,000
21	Missouri			108		32	32	9	1	8	17	2,045,000
22	Nebraska			2		2	2					1,635,000
23	New Hampshire		5	4		7	17					832,000
24	New Jersey	2	2	33	5	57	34			6	21	5,650,000
25	New York	2	10	91	4	104	235	20		24	84	49,770,000
26	North Carolina	3	1			3						125,000
27	Ohio		2	53	7	58	67			3	26	2,372,500
28	Oregon			6			17					600,000
29	Pennsylvania		11	29		62	81				13	7,240,244
30	Rhode Island		1	3	1	2	71				12	1,130,000
31	Tennessee	3		5		3	41					856,500
32	Texas			17		3	5			3		190,000
33	Vermont		2									417,000
34	Virginia			11		14						300,000
35	Washington		1			15	1					
36	West Virginia			2		1	22					20,000
37	Wisconsin		1	19		15				22	22	1,306,000
38	All other states and territories	2		21		16	44	2		10	6	4,386,000

OF CONSUMERS, AND CITY CONSUMPTION, GAS MANUFACTURE, BY STATES AND TERRITORIES: 1890—Continued.

GAS MAKING PLANT—continued.					STREET MAINS.							
Generators.				Retorts, oil.	Total length.		Diameter (inches).					
Water gas.		Fuel gas.					1	1¼	1½	2	2½	
Number.	Capacity per 24 hours. (Cubic feet.)	Number.	Capacity per 24 hours. (Cubic feet.)	Capacity per 24 hours. (Cubic feet.)	Miles.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	
507	115,436,200	18	1,844,000	16,430,244	12,065	1,776	707,209	515,471	740,010	4,759,957	620,155	1
1	60,000				61	1,564	4,000	7,760	10,760	67,700	7,920	2
5	540,000				44	3	6,042	10,637	3,040	16,355		3
10	3,560,000			58,000	519	4,402	25,670	9,907	35,617	392,156	30,020	4
				24,000	80	4,694	120		8,400	56,754	10,560	5
20	1,636,000	3	145,000	60,000	302	3,540	2,151	1,260	8,184	116,938	194,980	6
2	300,000				50	1,248			3,000	16,200		7
6	600,000			8,000	34	1,622	600	4,680	200	9,634		8
5	1,100,000			20,000	187	2,583	4,972	9,380	23,430	76,770	18,480	9
43	16,805,000			60,000	1,142	1,483	43,080	51,213	28,030	178,894	25,760	10
12	1,097,000			68,000	369	4,114	40,110	46,838	59,465	384,778	24,547	11
10	1,294,200			14,500	161	2,922	63,330	23,207	46,060	178,075	10,587	12
6	360,000			10,000	89	1,713	3,820	2,360	7,260	95,055		13
4	167,000	1	90,000	106,000	79	4,887	14,736	3,960	2,640	71,610	6,600	14
2	600,000			424,000	180	1,261	900	2,260	2,050	19,302	4,130	15
3	400,000			10,000	104	3,389	300	4,840	1,400	61,100	5,280	16
32	8,250,000			5,700,000	448	1,715	1,920		5,400	37,664		17
23	6,402,000	2	10,000	258,500	1,361	4,704	106,728	63,677	52,934	488,677	71,068	18
10	1,065,000			60,000	300	666	36,474	13,758	21,060	151,061	12,142	19
11	3,425,000			48,000	215	861	1,000	2,500	15,330	71,774		20
6	1,500,000	2	500,000	45,000	487	2,971	5,004	8,541	18,170	63,839	6,600	21
6	1,575,000			60,000	132	2,585	33,000	4,800	34,167	77,542	300	22
7	801,000			31,000	62	4,252	33,361	21,544	4,875	40,607	10,560	23
25	4,650,000	2	400,000	600,000	389	1,252	12,978	5,734	11,714	114,977	660	24
120	42,003,000	2	88,000	7,679,000	2,579	619	44,090	79,214	90,525	384,506	112,610	25
2	125,000				31	1,320	5,280	11,220	11,220	15,840	13,200	26
17	1,745,000	4	600,000	27,500	671	2,379	53,077	29,621	81,631	563,121	6,675	27
				600,000	26	2,640				5,280		28
66	7,031,000		6,000	203,244	687	3,184	43,688	14,325	45,310	385,419	21,223	29
5	1,130,000				288	170	20,764	32,054	21,807	83,939	2,640	30
8	850,000	2	1,000	5,500	112	3,456	24,434	7,691	13,267	52,736		31
				190,000	50	1,675	17,040	9,948	19,602	39,393		32
7	385,000		4,000	28,000	33	3,343	2,660	2,462	1,500	54,454	2,640	33
2	300,000				53	580			10,680	29,180		34
					32	3,667	5,280			16,346		35
1	20,000				39	5,220	1,200	650	100	17,040	625	36
9	1,280,000			26,000	267	2,463	37,000	20,056	27,102	117,333	3,000	37
21	4,380,000			6,000	385	2,389	12,400	9,439	14,020	207,008	16,748	38

TABLE 2.—CAPITAL STOCK, IMPROVEMENTS, CHARACTERISTICS OF MACHINERY AND PLANT, GAS SOLD, NUMBER

	STATES AND TERRITORIES.	STREET MAINS—continued. Diameter (inches)—Continued.									
		3	4	5	6	8	10	12	14	16	18
		Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.
1	The United States	18,298,884	14,533,943	983,943	8,455,236	2,389,847	1,405,819	1,546,686	188,403	646,601	103,609
2	Alabama	60,308	95,508	2,640	44,784	22,264	.....	.....	.....	.....	.....
3	Arkansas	137,450	27,827	2,311	21,266	6,995	400	.....	.....	.....	.....
4	California	549,278	578,939	8,140	213,575	81,984	70,928	135,408	.....	52,972	1,320
5	Colorado	97,572	88,441	34,680	29,777	30,652	26,910	10,858	3,983	7,056	.....
6	Connecticut	531,829	235,745	51,486	172,259	52,310	56,041	29,523	15,840	20,240	.....
7	Delaware	146,267	37,937	.....	36,369	14,495	7,750	3,180	.....	50	.....
8	Florida	76,195	48,138	640	28,475	9,005	3,500	75	.....	.....	.....
9	Georgia	248,465	215,131	47,520	99,930	32,210	30,110	37,385	5,200	5,000	.....
10	Illinois	438,408	324,320	10,860	156,826	39,769	20,564	30,240	.....	5,280	.....
11	Indiana	821,047	291,054	20,160	163,049	28,080	24,957	2,640	.....	16,843	.....
12	Iowa	261,013	153,983	14,500	68,138	16,455	5,600	7,000	5,054	.....	.....
13	Kansas	169,684	120,367	1,320	41,737	18,654	8,736	2,640	.....	.....	.....
14	Kentucky	147,875	105,269	10,560	53,117	3,640	.....	2,000	.....	.....	.....
15	Louisiana	297,787	403,144	1,103	128,924	47,921	4,000	22,400	900	12,700	.....
16	Maine	207,879	133,545	34,320	65,599	14,581	12,039	9,566	1,000	1,000	.....
17	Maryland	604,658	1,089,307	.....	266,789	87,912	58,449	83,952	.....	30,307	.....
18	Massachusetts	3,065,809	1,391,536	23,393	1,200,328	258,098	141,570	185,330	6,076	31,450	31,400
19	Michigan	497,950	485,901	5,280	157,162	42,294	37,654	14,207	.....	14,303	.....
20	Minnesota	306,654	398,105	.....	199,001	78,643	28,261	16,820	.....	14,728	.....
21	Missouri	764,721	878,986	4,260	423,181	148,411	93,419	76,981	.....	31,343	.....
22	Nebraska	147,670	230,235	.....	83,318	30,393	14,850	40,520	.....	.....	.....
23	New Hampshire	102,278	64,602	13,580	17,592	7,665	4,491	8,757	1,200	500	.....
24	New Jersey	746,667	637,693	26,760	289,659	63,634	81,443	53,803	.....	7,450	.....
25	New York	3,376,385	3,387,030	88,509	2,023,105	802,837	327,682	501,244	.....	244,931	29,700
26	North Carolina	59,400	38,280	2,640	7,920	.....	.....	.....	.....	.....	.....
27	Ohio	1,260,703	758,061	89,872	386,624	140,683	94,762	38,681	15,060	12,060	.....
28	Oregon	5,280	68,640	26,400	18,480	5,280	5,280	2,640	2,640	.....	.....
29	Pennsylvania	1,408,478	984,920	66,027	399,050	63,272	66,078	66,095	3,730	34,330	16,325
30	Rhode Island	368,446	264,519	168,400	205,416	54,696	66,864	63,349	50,160	29,230	3,744
31	Tennessee	193,213	164,220	21,120	84,421	11,965	.....	20,434	.....	750	.....
32	Texas	76,085	81,234	.....	10,148	8,430	3,000	800	.....	.....	.....
33	Vermont	58,203	43,199	2,640	9,825	.....	.....	.....	.....	.....	.....
34	Virginia	136,940	26,680	.....	49,100	9,840	15,500	1,000	1,000	500	.....
35	Washington	69,393	43,203	7,080	25,313	262	232	5,518	.....	.....	.....
36	West Virginia	36,960	74,545	600	63,580	.....	.....	5,280	.....	10,560	.....
37	Wisconsin	348,581	159,404	14,128	77,777	6,606	8,868	1,988	.....	.....	.....
38	All other states and territories	473,353	404,295	182,120	233,622	149,911	85,881	66,372	76,560	54,018	21,120

OF CONSUMERS, AND CITY CONSUMPTION, GAS MANUFACTURE, BY STATES AND TERRITORIES: 1890—Continued.

STREET MAINS—continued.							CONSUMERS' METERS.								
Diameter (inches)—Continued.					Increase during year.		Total number in use.	Sizes (lights).							
20	24	30	36	Not specified.	Miles.	Feet.		0	1	2	3	5	10	20	30
Feet.	Feet.	Feet.	Feet.	Feet.				Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.
395,983	171,599	153,446	652	7,087,523	416	2,602	995,619	110	2,221	30,475	438,017	162,833	57,287	18,333	5,966
.....	.....	.....	.....	.....	4	2,580	2,211	.....	.....	.....	1,498	566	76	26	12
.....	.....	.....	.....	.....	.....	.....	1,661	.....	9	47	1,061	322	119	44	25
1,320	15,840	.....	.....	541,048	19	1,897	37,121	.....	35	142	19,333	10,802	5,109	929	166
7,331	10,000	4,000	.....	.....	9	4,577	6,142	.....	.....	19	4,952	696	270	102	38
.....	.....	.....	.....	100,320	6	3,288	15,870	.....	.....	293	8,705	3,152	1,393	709	498
.....	.....	.....	.....	.....	.....	4,886	5,413	.....	.....	.....	2,940	1,585	505	164	31
.....	.....	.....	.....	.....	1	483	1,486	.....	.....	20	809	410	96	44	17
.....	.....	.....	.....	135,960	3	3,494	9,581	.....	.....	14	3,725	1,700	354	149	44
.....	.....	.....	.....	4,677,999	73	3,624	89,357	10	5	374	13,919	19,519	2,619	988	312
.....	.....	.....	.....	28,866	4	4,270	19,463	25	105	136	12,741	4,592	993	412	182
.....	.....	.....	.....	.....	7	3,230	8,276	.....	5	214	5,740	1,490	518	144	57
.....	.....	.....	.....	.....	.....	1,980	3,799	.....	7	56	2,774	604	186	28	14
.....	.....	.....	.....	.....	1	682	4,312	75	105	395	2,743	503	191	79	44
4,200	.....	.....	.....	.....	1	3,450	12,440	.....	.....	430	6,424	3,300	1,349	555	154
.....	.....	.....	.....	.....	.....	2,500	6,394	.....	20	183	3,896	1,389	485	121	71
72,919	19,958	7,920	.....	.....	11	1,812	41,671	.....	.....	5,730	20,983	8,308	5,135	364	236
11,902	18,321	42,487	.....	.....	48	2,088	103,604	.....	5	4,703	59,537	20,701	11,318	4,126	686
16,220	.....	.....	.....	79,200	6	2,332	16,377	.....	110	678	9,334	3,637	815	355	154
2,575	670	.....	.....	.....	27	453	10,277	.....	.....	1,054	5,437	2,526	712	319	103
7,120	6,795	.....	.....	36,960	23	1,045	30,952	.....	1,000	3,062	12,746	6,020	4,187	664	677
2,750	.....	.....	.....	.....	14	3,704	5,579	.....	.....	10	2,383	2,355	370	119	208
.....	.....	.....	.....	.....	.....	2,908	7,606	.....	148	1,433	3,951	985	437	279	63
2,000	.....	.....	.....	.....	16	685	35,780	.....	5	189	23,574	7,746	2,344	910	289
203,411	65,759	59,411	.....	896,790	63	1,537	338,155	.....	77	648	104,442	27,044	9,295	3,194	971
.....	.....	.....	.....	.....	.....	.....	1,804	.....	.....	12	1,409	213	82	55	8
14,628	.....	.....	.....	.....	12	1,713	45,545	.....	89	1,618	22,723	7,681	2,131	591	181
.....	.....	.....	.....	.....	1	1,320	2,135	.....	.....	.....	1,000	420	315	200	50
1,522	6,434	3,268	150	.....	9	5,209	47,968	.....	86	1,369	34,969	6,781	2,527	900	258
31,680	21,120	31,480	502	.....	7	4,371	19,304	.....	15	1,800	11,076	4,906	585	429	69
565	.....	.....	.....	.....	9	1,440	8,316	.....	.....	200	4,492	2,760	471	259	31
.....	.....	.....	.....	.....	.....	4,119	2,412	.....	25	126	1,543	411	145	80	39
.....	.....	.....	.....	.....	.....	3,031	1,824	.....	.....	113	1,161	339	112	59	9
.....	.....	.....	.....	.....	.....	3,140	3,838	.....	.....	15	2,289	966	269	139	53
.....	.....	.....	.....	.....	5	556	1,921	.....	.....	.....	1,181	410	225	58	15
.....	.....	.....	.....	.....	.....	.....	3,490	.....	.....	.....	2,769	442	170	59	7
.....	.....	.....	.....	590,380	10	3,500	14,718	.....	60	250	2,960	1,143	342	216	66
15,840	6,702	4,880	.....	.....	11	1,169	28,817	.....	310	5,082	16,738	4,639	1,037	464	128

TABLE 2.—CAPITAL STOCK, IMPROVEMENTS, CHARACTERISTICS OF MACHINERY AND PLANT, GAS SOLD, NUMBER.

	STATES AND TERRITORIES.	CONSUMERS' METERS—continued.															
		Sizes (lights)—Continued.															
		35	40	45	50	60	80	100	125	150	180	200	250	300	400	Not specified.	Increase during year.
		Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.	Number.
1	The United States	1,971	1,110	3,399	1,608	2,022	911	2,183	322	653	97	485	159	228	16	265,153	61,513
2	Alabama	1	1	14	.....	12	2	1	.....	1	.....	1	.....	.....	.....	.....	172
3	Arkansas	4	.....	10	4	7	1	5	.....	1	.....	1	.....	1	.....	.....	38
4	California	6	13	94	108	30	12	216	.....	44	.....	60	.....	11	1	10	2,920
5	Colorado	1	2	20	1	19	9	3	.....	5	.....	3	2	.....	.....	.....	127
6	Connecticut	189	169	131	100	107	96	72	52	57	19	29	13	11	.....	75	610
7	Delaware	.....	3	50	.....	53	.....	45	.....	20	.....	.....	15	2	.....	.....	276
8	Florida	.....	5	4	2	11	3	1	.....	2	.....	.....	2	.....	.....	.....	138
9	Georgia	4	3	23	3	17	5	11	.....	4	.....	4	.....	.....	.....	3,521	825
10	Illinois	6	19	164	20	94	11	65	.....	27	.....	15	.....	2	.....	51,188	11,009
11	Indiana	24	54	66	25	57	24	17	.....	1	.....	1	2	5	.....	1	495
12	Iowa	10	11	28	12	19	8	13	.....	3	1	1	2	.....	.....	.....	511
13	Kansas	10	2	8	5	10	1	3	.....	.....	.....	.....	.....	1	.....	.....	214
14	Kentucky	15	30	12	21	8	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	248
15	Louisiana	.....	.....	112	.....	50	22	22	.....	10	.....	.....	10	.....	.....	2	29
16	Maine	10	31	57	26	41	9	16	.....	30	.....	2	1	5	1	.....	96
17	Maryland	85	80	98	40	169	40	183	120	35	15	36	4	10	.....	.....	18
18	Massachusetts	1	9	163	944	186	260	489	4	138	2	133	39	60	3	7	5,048
19	Michigan	78	41	82	14	42	14	16	.....	5	.....	.....	2	.....	.....	1,000	985
20	Minnesota	13	2	40	8	24	5	22	3	2	.....	5	1	1	.....	.....	1,427
21	Missouri	805	152	527	100	74	34	144	65	26	15	25	11	15	3	.....	2,992
22	Nebraska	4	3	38	33	22	.....	20	1	2	.....	11	.....	.....	.....	.....	662
23	New Hampshire	127	31	47	27	21	5	9	11	11	4	13	2	1	.....	1	430
24	New Jersey	25	18	272	6	141	63	121	1	41	.....	13	8	12	2	.....	2,577
25	New York	128	80	716	18	434	108	393	14	124	1	107	27	73	3	189,358	20,591
26	North Carolina	.....	3	10	.....	7	.....	4	.....	1	.....	.....	.....	.....	.....	.....	74
27	Ohio	59	57	168	50	56	29	53	13	11	15	12	4	4	.....	10,000	1,892
28	Oregon	50	25	15	10	20	15	15	.....	.....	.....	.....	.....	.....	.....	.....	.....
29	Pennsylvania	65	72	181	16	149	37	94	4	9	.....	3	2	3	.....	443	1,599
30	Rhode Island	93	58	42	40	13	18	17	19	13	20	6	12	8	3	2	1,086
31	Tennessee	3	4	38	1	8	16	15	1	17	.....	.....	.....	.....	.....	.....	975
32	Texas	21	10	4	.....	6	1	1	.....	.....	.....	.....	.....	.....	.....	.....	159
33	Vermont	4	2	14	1	2	.....	5	.....	3	.....	.....	.....	.....	.....	.....	21
34	Virginia	25	20	30	10	10	2	6	.....	2	.....	.....	.....	.....	.....	2	223
35	Washington	.....	.....	12	.....	13	.....	6	1	.....	.....	.....	.....	.....	.....	.....	394
36	West Virginia	.....	3	11	.....	14	6	8	.....	.....	.....	1	.....	.....	.....	.....	12
37	Wisconsin	45	17	21	4	26	5	15	3	.....	.....	2	.....	.....	.....	9,543	888
38	All other states and territories	60	80	77	19	50	50	56	10	8	5	1	.....	3	.....	.....	1,743

OF CONSUMERS, AND CITY CONSUMPTION, GAS MANUFACTURE, BY STATES AND TERRITORIES: 1890—Continued.

GAS SOLD.										
Total sales.		For illumination.		For power.		For fuel other than for power.		Number of consumers.	City consumption, other than street lighting. (Cubic feet.)	
Cubic feet.	Value.	Cubic feet.	Value.	Cubic feet.	Value.	Cubic feet.	Value.			
32,524,699,855	$46,237,287	32,113,949,939	$45,836,469	73,391,071	$103,420	337,358,845	$297,398	699,323	218,108,846	1
86,459,960	156,001	86,243,160	155,686	.....	.....	216,800	315	902	98,600	2
51,263,000	128,241	51,263,000	128,241	.....	.....	.....	.....	849	2,245,248	3
1,370,608,419	3,003,006	1,355,186,819	2,970,447	7,200,000	14,706	8,221,600	17,853	26,397	1,253,600	4
239,025,000	388,713	238,971,700	388,592	.....	.....	53,300	121	6,225	77,800	5
580,703,482	951,404	573,203,482	939,308	1,200,000	1,626	6,300,000	10,470	11,405	1,618,100	6
126,051,100	158,379	124,551,100	156,742	1,500,000	1,637	.....	.....	5,040	.....	7
43,699,110	107,063	39,867,110	101,750	500,000	1,050	3,332,000	4,863	965	216,000	8
276,114,800	387,851	275,514,800	386,858	425,000	703	175,000	290	7,614	.....	9
3,779,006,230	4,873,825	3,744,681,030	4,821,846	100,000	150	34,225,200	51,829	9,537	29,433,900	10
460,761,100	649,725	452,741,500	637,926	431,100	642	7,588,500	11,157	10,100	2,069,000	11
161,523,700	311,457	153,769,700	296,742	1,300,000	2,600	6,454,000	12,115	5,843	.....	12
95,372,300	167,888	88,615,100	155,623	.....	.....	6,757,200	12,265	2,293	40,200	13
104,458,161	182,464	93,420,180	170,632	8,773,681	8,773	2,264,300	3,059	4,045	20,000	14
200,216,530	641,989	183,887,130	595,375	5,520,000	11,695	10,809,400	34,919	10,300	6,500	15
117,901,560	227,309	117,161,560	225,574	180,000	360	560,000	1,375	2,305	243,000	16
1,157,678,120	1,462,197	1,157,674,620	1,462,191	3,500	6	.....	.....	39,401	.....	17
3,267,293,490	4,760,498	3,259,624,255	4,748,809	5,137,990	6,715	3,531,245	4,974	83,293	36,199,900	18
445,896,400	659,808	440,116,600	653,126	229,000	403	5,550,800	6,279	5,905	1,800,200	19
416,009,810	698,103	415,559,810	697,428	.....	.....	450,000	675	5,068	6,805,000	20
1,065,230,494	1,454,402	1,007,452,894	1,382,945	21,756,400	26,396	36,021,200	45,061	7,713	34,800	21
203,836,600	354,845	203,306,600	353,815	.....	.....	530,000	1,030	4,986	100,000	22
177,399,601	290,993	175,315,101	287,679	.....	.....	2,084,500	3,314	3,644	136,800	23
1,005,685,965	1,690,494	1,003,970,465	1,688,067	80,000	120	1,635,500	2,307	26,909	4,116,700	24
11,503,207,425	15,121,149	11,495,540,825	15,110,898	2,897,900	4,981	4,768,700	5,270	272,859	91,830,648	25
37,174,825	75,973	36,288,125	74,642	436,700	655	450,000	676	105	300,000	26
1,386,579,306	1,613,453	1,349,177,406	1,571,679	8,979,300	9,954	28,422,600	31,820	14,973	6,468,400	27
78,053,800	188,239	78,053,800	188,239	.....	.....	.....	.....	2,000	.....	28
1,417,768,930	1,682,613	1,255,911,430	1,657,831	792,500	965	161,065,000	23,817	70,435	2,786,700	29
579,816,100	596,571	577,816,100	594,071	2,000,000	2,500	.....	.....	4,081	7,780,600	30
247,136,250	420,551	247,136,250	420,551	.....	.....	.....	.....	3,596	6,406,800	31
124,281,414	294,946	120,281,414	287,146	900,000	1,530	3,100,000	6,270	2,757	236,000	32
33,013,600	72,384	33,013,600	72,384	.....	.....	.....	.....	952	.....	33
91,319,400	152,891	91,319,400	152,891	.....	.....	.....	.....	2,950	980,000	34
71,342,180	167,472	71,342,180	167,472	.....	.....	.....	.....	1,602	777,050	35
101,718,600	99,297	100,982,600	98,192	688,000	1,033	48,000	72	100	.....	36
486,437,610	624,426	485,777,610	623,106	360,000	720	300,000	600	13,069	5,651,000	37
933,655,483	1,420,067	929,211,483	1,411,965	2,000,000	3,500	2,444,000	4,602	28,925	8,375,400	38