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APPENDIX

TABLE I.—MALE IMMIGRANTS, BY QUARTERS: 1868-1892^a
(Thousands of Immigrants)

YEAR ENDING DEC. 31	TOTAL FOR YEAR ^b	QUARTER ENDING			
		MARCH 31	JUNE 30	SEPTEMBER 30	DECEMBER 31
1868	173.9	21.0	65.6	53.4	33.9
1869	235.2	23.8	103.7	63.9	43.8
1870	214.8	26.8	101.1	57.2	29.7
1871	204.7	17.2	86.4	56.8	44.4
1872	258.3	30.9	108.1	68.6	50.7
1873	256.7	32.0	124.5	60.6	39.6
1874	159.9	19.5	69.5	43.6	27.3
1875	121.9	19.8	49.2	33.3	19.6
1876	103.0	18.5	40.4	27.3	16.8
1877	84.3	13.2	34.7	21.6	14.7
1878	94.6	13.6	36.4	25.5	19.2
1879	159.0	15.1	52.1	42.4	49.4
1880	365.8	45.8	150.0	95.4	74.5
1881	442.2	50.4	190.4	104.1	97.3
1882	458.2	79.7	217.6	94.8	66.1
1883	341.7	46.9	156.0	73.8	65.0
1884	272.4	46.7	123.1	59.7	43.0
1885	199.6	28.8	94.9	43.7	32.3
1886	240.1	29.9	94.9	60.6	54.8
1887	322.0	46.6	144.7	72.3	58.4
1888	326.6	51.3	163.3	64.8	47.1
1889	258.3	37.5	113.6	56.6	50.5
1890	308.6	47.1	127.6	69.3	64.6
1891	369.4	63.5	156.7	80.9	68.4
1892	343.5	70.2	166.3	69.5	37.4

^aCompiled from U. S. Bureau of Foreign and Domestic Commerce, *Monthly Summary of Commerce and Finance*, June, 1903, p. 4362, which gives quarterly data from July, 1857 to June, 1903, inclusive.

^bComputed from full quarterly data before they were reduced to thousands.

TABLE II—MALE IMMIGRANTS, BY MONTHS: 1892-1924^a
(Thousands of Immigrants)

YEAR	TOTAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1892	.....^b	.....	.....	.....	.....	.....	.....	28.5	25.5	15.1	8.5	15.1	13.0
1893	308.2 ^c	8.8	8.2	28.7	51.8	65.2	43.6	29.4	23.3	16.9	14.4	10.6	7.3
1894	141.1 ^c	5.9	6.3	13.1	24.4	19.7	12.8	9.6	8.9	11.5	12.5	8.2	8.3
1895	186.1 ^c	5.5	6.3	11.6	26.3	28.9	19.6	15.4	14.5	17.3	16.1	13.6	10.8
1896	188.8 ^c	7.1	11.2	25.8	34.0	37.9	16.4	12.4	9.9	9.7	9.8	8.2	6.5
1897	129.8	4.8	5.8	14.1	21.0	21.3	11.8	8.3	7.3	9.6	10.1	8.1	7.8
1898	156.7	6.1	7.9	18.1	23.0	19.8	9.6	11.8	9.4	13.2	13.9	13.0	10.9
1899	231.5	7.2	9.9	21.9	28.2	34.7	23.3	14.8	15.1	16.3	21.6	21.3	17.1
1900	314.0	11.9	17.4	38.3	45.8	48.3	36.2	24.1	19.7	18.0	20.9	16.7	16.6
1901	362.5	13.2	20.5	35.0	51.0	59.2	36.1	22.1	20.4	26.4	24.7	28.2	25.7
1902	527.3	17.1	28.9	64.8	75.1	80.1	52.9	33.3	28.8	34.8	40.5	36.7	34.3
1903	660.3	23.5	37.6	75.5	100.3	99.8	68.1	43.9	41.0	46.8	51.2	43.9	28.7
1904	539.9	19.5	24.3	62.1	69.3	69.6	48.7	37.0	36.6	39.2	42.5	46.6	44.4
1905	745.3 ^c	42.5	52.5	101.8	107.0	95.4	79.3	49.2	38.9	46.2	52.4	38.8	41.2
1906	857.3 ^c	36.0	52.5	104.9	114.7	108.8	81.7	53.9	52.6	60.6	66.0	65.1	60.4
1907	961.8	40.6	51.2	113.7	116.9	137.8	111.2	65.2	63.2	64.4	72.5	80.4	44.8
1908	241.9	17.9	14.6	21.2	25.0	20.4	17.3	14.8	15.2	19.4	22.2	22.5	31.3
1909	665.7	33.3	52.7	90.0	89.0	73.7	55.8	41.6	37.1	41.1	47.4	55.7	48.1
1910	748.1	36.9	44.5	110.2	104.6	96.7	72.1	47.2	49.9	51.4	50.1	47.3	37.3
1911	488.2	24.1	28.7	60.5	69.9	60.8	42.9	29.3	28.4	33.6	37.5	35.7	36.8
1912	674.6	24.9	30.1	66.9	71.2	75.8	59.8	49.9	53.2	66.1	68.1	60.0	48.6
1913	936.0	30.8	40.4	69.2	99.7	97.4	124.8	94.7	84.6	87.0	82.9	65.6	59.0
1914	439.5	28.5	30.8	67.1	87.9	69.8	40.9	32.9	21.5	17.1	16.6	14.8	11.6
1915	153.4	9.1	7.9	11.5	14.5	15.7	13.7	13.0	13.4	14.1	14.6	14.4	11.3
1916	213.1	10.9	15.7	18.1	19.7	19.1	17.8	13.8	17.4	21.7	20.6	20.3	18.1
1917	90.3	15.6	11.2	9.9	12.7	6.6	6.7	5.5	5.6	4.8	4.5	3.4	3.8
1918	65.8	3.4	4.1	3.9	5.4	8.8	8.7	4.4	4.2	5.4	6.6	4.6	6.4
1919	137.7	5.9	6.8	8.7	10.5	9.0	10.7	11.0	11.7	13.9	16.3	14.1	19.0
1920	414.1	17.3	18.3	24.7	30.2	32.4	38.7	37.0	38.7	43.1	46.6	41.7	45.5
1921	290.2	37.2	32.9	35.1	32.4	36.2	23.1	17.0	18.1	16.6	14.9	15.8	11.0
1922	203.9	8.2	5.7	7.9	9.5	12.1	13.1	23.0	23.8	26.8	28.8	26.5	18.4
1923	460.4	16.6	18.9	29.5	33.9	33.6	27.6	53.5	54.5	53.4	50.8	54.3	33.9
1924	203.8	20.8	18.0	22.7	22.6	18.6	20.2	6.6	13.1	15.1	14.4	16.2	15.4

^aThe monthly data for July 1892 to June 1905, inclusive are compiled from the U. S. Bureau of Statistics, *Monthly Summary of Commerce and Finance*; for the remainder of the period they are from the publications or records of the U. S. Bureau of Immigration.

^bMonthly statistics of immigration by sex are not available prior to July, 1892.

^cIn 1893, 1894, 1895, 1896, 1905, and 1906, the totals of the monthly figures for male immigrants, when added to similar statistics of female immigrants also compiled by the U. S. Bureau of Statistics, give totals differing somewhat from the official totals published by the U. S. Bureau of Immigration.

TABLE III.—CYCLES IN MALE IMMIGRATION BY MONTHS, OR QUARTERS, 1890-1914*

Three-month moving averages of percentage deviations from trend, corrected for seasonal variation, and expressed in terms of their standard deviation (30.24 per cent)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1890	.....	-0.3 ^b	.....	.....	-0.3	.....	.....	+0.2	.....	.....	+0.4	.....
1891	.....	+0.7	.....	.....	+0.8	.....	.....	+1.1	.....	.....	+1.0	.....
1892	.....	+1.3	.....	.....	+1.6	.....	.....	+0.9	-0.3	-1.0	-1.0	-0.6
1893	-0.9	-0.8	-0.1	+1.3	+2.1	+2.3	+1.9	+1.1	+0.2	-0.7	-1.2	-1.5
1894	-1.6	-1.7	-1.5	-1.3	-1.2	-1.4	-1.4	-1.2	-1.0	-1.1	-1.2	-1.3
1895	-1.4	-1.5	-1.2	-0.7	-0.1	+0.1	+0.2	+0.5	+0.5	+0.4	+0.1	-0.1
1896	0	+0.2	+0.7	+1.2	+0.8	+0.4	-0.3	-0.5	-0.8	-1.0	-1.2	-1.3
1897	-1.4	-1.3	-1.1	-0.8	-0.8	-1.0	-1.3	-1.2	-1.1	-1.1	-1.2	-1.1
1898	-1.1	-1.0	-0.9	-0.9	-1.2	-1.2	-1.2	-0.8	-0.8	-0.7	-0.7	-0.8
1899	-0.9	-1.0	-0.8	-0.5	-0.4	-0.4	-0.5	-0.6	-0.3	-0.1	+0.1	0
1900	-0.1	0	+0.1	+0.2	+0.2	+0.2	0	-0.3	-0.6	-0.8	-0.8	-0.7
1901	-0.4	-0.4	-0.2	-0.1	0	-0.2	-0.5	-0.6	-0.6	-0.4	-0.3	-0.2
1902	0	+0.3	+0.6	+0.7	+0.6	+0.4	0	-0.1	0	+0.1	+0.3	+0.2
1903	+0.4	+0.5	+0.9	+0.9	+0.9	+0.7	+0.5	+0.4	+0.4	+0.4	0	-0.4
1904	-0.9	-0.8	-0.8	-0.6	-0.8	-0.7	-0.7	-0.6	-0.5	-0.3	0	+0.8
1905	+1.2	+1.4	+1.0	+0.7	+0.5	+0.4	+0.3	0	0	-0.1	0	+0.2
1906	+0.8	+1.1	+1.1	+0.9	+0.7	+0.6	+0.6	+0.7	+0.8	+1.1	+1.3	+1.4
1907	+1.3	+1.2	+1.1	+1.2	+1.4	+1.6	+1.5	+1.2	+1.3	+1.6	+1.3	+0.5
1908	-1.0	-1.9	-2.3	-2.5	-2.5	-2.5	-2.3	-2.1	-2.0	-1.8	-1.4	-0.6
1909	+0.4	+0.8	+0.6	-0.1	-0.5	-0.5	-0.5	-0.4	-0.4	+0.1	+0.4	+0.8
1910	+0.7	+0.9	+0.7	+0.5	+0.2	0	+0.2	+0.2	+0.2	+0.1	-0.1	-0.3
1911	-0.6	-0.8	-0.9	-1.0	-1.1	-1.2	-1.2	-1.2	-1.0	-0.9	-0.7	-0.5
1912	-0.5	-0.6	-0.7	-0.7	-0.7	-0.3	+0.1	+0.6	+0.9	+1.0	+0.8	+0.5
1913	+0.3	-0.1	-0.1	-0.1	+0.9	+1.9	+2.9	+2.9	+2.5	+1.9	+1.5	+0.8
1914	+0.2	-0.5	-0.6	-0.6	-0.9	-1.1	-1.4	-1.7	-2.1	-2.2	-2.3	-2.3

*Computed from data in Table II. Trend eliminated by computing percentage deviations from an eighty-four month moving average smoothed with the aid of French curves.

^bThe data for 1890, 1891, and the first half of 1892 apply to quarters centered in February, May, August, and November, respectively.

TABLE IV—INDEX OF FACTORY EMPLOYMENT IN SELECTED STATES, BY MONTHS, 1889-1923-
 Massachusetts (1889-1923); New Jersey (1895-1919); New York (1904-1923)
 1914 monthly average = 100

YEAR	AVERAGE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1889	56.2	56.0	56.4	56.4	56.2	56.2	56.2	55.7	56.0	56.2	56.7	56.4	56.0
1890	57.3	56.1	57.0	57.5	57.4	57.4	57.4	56.5	57.0	57.7	58.4	58.0	57.7
1891	58.1	58.0	58.1	58.3	58.6	58.7	58.1	57.5	57.5	58.1	58.3	58.1	58.0
1892	60.4	58.8	59.6	60.3	61.3	61.1	60.3	59.6	60.7	60.7	61.4	61.3	60.7
1893	57.4	61.0	61.4	62.3	62.7	62.6	60.7	57.5	51.9	48.6	53.1	53.1	53.5
1894	53.6	52.5	53.4	53.5	54.5	54.9	53.8	51.9	50.8	51.2	55.1	56.0	55.4
1895	58.9	57.4	57.5	58.7	59.2	59.3	58.9	57.9	58.7	59.5	60.0	60.2	59.8
1896	57.5	59.2	59.7	59.7	59.6	59.2	57.5	54.8	53.3	54.9	56.7	57.0	57.8
1897	59.0	57.8	58.6	59.3	60.1	60.0	58.7	56.6	56.2	59.9	60.8	60.3	60.0
1898	60.5	59.6	59.9	61.1	61.2	60.3	60.2	58.9	59.4	60.4	61.7	61.6	61.7
1899	66.7	63.1	64.2	65.6	66.6	67.0	67.0	65.8	66.7	68.3	68.6	68.9	68.8
1900	69.2	69.9	70.4	71.0	70.4	70.2	69.0	66.5	67.3	68.4	69.2	69.1	69.3
1901	71.4	69.9	70.4	71.4	70.4	71.2	70.6	69.6	70.6	72.1	73.5	73.8	73.5
1902	77.2	75.7	76.1	76.9	76.9	76.9	76.1	75.5	76.2	77.9	79.6	79.6	79.0
1903	79.0	79.3	79.8	80.7	79.3	78.9	79.4	77.7	77.6	78.8	79.8	78.9	78.3
1904	79.1	77.0	78.2	79.6	79.9	78.9	77.8	76.5	77.5	80.4	82.1	81.2	79.6
1905	84.0	80.6	81.8	82.4	84.1	84.2	83.8	83.8	84.6	84.3	85.5	86.0	86.4
1906	88.7	86.9	86.6	87.4	87.6	88.0	89.1	89.3	89.6	89.7	90.1	91.0	89.6
1907	89.7	91.8	91.8	92.9	92.3	93.9	92.6	92.8	92.8	91.3	84.7	83.3	77.9
1908	79.4	75.5	74.2	74.2	72.6	73.1	74.8	80.7	84.4	82.6	85.8	86.8	87.5
1909	94.0	89.5	91.1	92.7	92.6	92.3	92.2	91.7	93.4	96.7	98.5	98.5	98.2
1910	98.9	99.9	100.2	99.2	98.8	98.6	98.1	98.1	98.8	99.0	99.0	99.3	97.8
1911	99.1	98.1	99.4	99.8	99.6	97.7	98.3	98.7	99.4	100.1	100.8	99.7	97.3
1912	101.2	99.0	100.9	101.3	101.2	100.2	99.2	98.9	102.4	103.6	104.0	102.8	101.2
1913	101.8	103.4	104.2	102.6	101.8	100.6	100.6	100.3	101.5	102.8	102.8	101.9	99.7
1914	100.0	101.0	102.3	103.5	102.8	101.5	100.3	98.2	97.8	99.5	100.0	97.4	95.7
1915	102.3	95.9	97.6	98.4	99.1	100.2	101.1	100.8	101.3	104.8	106.9	110.0	111.6
1916	117.8	112.5	114.8	115.8	118.0	116.8	116.8	116.2	116.7	119.2	120.1	122.8	124.1
1917	122.5	123.4	123.8	125.2	123.1	121.9	121.1	119.9	118.8	120.8	122.7	124.1	124.9
1918	125.0	123.6	125.1	126.6	126.1	126.3	126.5	127.7	125.7	125.4	121.4	123.3	121.8
1919	120.2	116.8	115.0	115.4	116.0	116.4	117.8	120.5	122.9	124.0	124.1	125.8	128.3
1920	120.1	128.2	126.9	129.0	127.7	125.6	123.7	122.1	119.2	117.4	115.1	107.5	98.8
1921	97.9	92.6	96.2	98.3	98.3	97.3	97.0	96.5	97.8	100.3	101.2	100.4	98.8
1922	103.2	97.3	99.9	100.6	98.8	99.4	100.3	100.3	103.2	106.1	109.2	111.3	112.6
1923	112.3	113.0	113.5	115.8	114.6	114.0	112.4	111.6	110.8	110.6	112.0	110.7	108.5

*Computed from estimates given in Tables 15, 16, and 17. For methods of arriving at these estimates, see Chapter III.

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**TABLE V—CYCLES OF FACTORY EMPLOYMENT IN SELECTED STATES, BY MONTHS:
1889-1914***

Percentage deviations from trend, corrected for typical seasonal variation and expressed in multiples of the standard deviation, which=4.55 per cent

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1889	0	0	-0.11	-0.29	-0.24	-0.07	-0.18	+0.26	+0.04	+0.04	+0.02	0
1890	-0.07	+0.13	+0.18	+0.07	+0.11	+0.24	+0.33	+0.53	+0.51	+0.55	+0.53	+0.55
1891	+0.51	+0.40	+0.35	+0.42	+0.46	+0.40	+0.62	+0.57	+0.51	+0.40	+0.44	+0.51
1892	+0.70	+0.86	+0.97	+1.30	+1.25	+1.12	+1.25	+1.30	+1.38	+1.43	+1.52	+1.41
1893	+1.43	+1.38	+1.60	+1.69	+1.67	+1.12	+0.33	-1.80	-3.38	-1.87	-1.74	-1.47
1894	-1.98	-1.78	-1.85	-1.58	-1.38	-1.63	-1.93	-2.35	-2.48	-1.21	-0.77	-0.86
1895	-0.22	-0.37	-0.02	+0.09	+0.18	+0.15	+0.22	+0.53	+0.51	+0.48	+0.66	+0.59
1896	+0.26	+0.26	+0.15	+0.02	-0.13	-0.66	-1.25	-1.85	-1.60	-1.19	-0.97	-0.62
1897	-0.79	-0.70	-0.62	-0.44	-0.51	-0.84	-1.21	-1.43	-0.44	-0.40	-0.51	-0.55
1898	-0.88	-0.99	-0.75	-0.84	-1.19	-1.10	-1.19	-1.12	-1.12	-0.97	-0.92	-0.84
1899	-0.53	-0.42	-0.11	+0.04	+0.15	+0.26	+0.20	+0.44	+0.62	+0.42	+0.57	+0.57
1900	+0.75	+0.66	+0.66	+0.33	+0.24	-0.07	-0.51	-0.33	-0.33	-0.35	-0.33	-0.22
1901	-0.24	-0.29	-0.15	-0.59	-0.40	-0.46	-0.40	-0.15	-0.07	+0.11	+0.24	+0.22
1902	+0.70	+0.57	+0.64	+0.51	+0.51	+0.35	+0.55	+0.66	+0.81	+1.05	+1.12	+0.99
1903	+0.90	+0.84	+0.90	+0.37	+0.24	+0.51	+0.40	+0.31	+0.31	+0.31	+0.13	+0.04
1904	-0.42	-0.40	-0.09	-0.04	-0.15	-0.44	-0.77	-0.88	-0.35	+0.09	-0.07	-0.13
1905	-0.15	-0.11	-0.07	+0.35	+0.55	+0.46	+0.51	+0.33	0	+0.26	+0.51	+0.99
1906	+0.81	+0.46	+0.57	+0.59	+0.84	+1.16	+1.23	+0.95	+0.70	+0.77	+1.12	+1.12
1907	+1.38	+1.10	+1.27	+1.10	+1.16	+1.38	+1.43	+1.05	+0.44	-1.23	-1.45	-2.42
1908	-3.30	-3.87	-3.96	-4.35	-4.07	-3.60	-2.11	-1.58	-2.26	-1.54	-1.16	-0.64
1909	-0.44	-0.33	-0.04	-0.09	+0.02	+0.04	-0.04	-0.02	+0.53	+0.92	+1.05	+1.36
1910	+1.45	+1.23	+0.92	+0.79	+0.92	+0.84	+0.90	+0.70	+0.48	+0.46	+0.66	+0.70
1911	+0.48	+0.51	+0.53	+0.46	+0.20	+0.40	+0.53	+0.31	+0.22	+0.37	+0.24	+0.11
1912	+0.20	+0.35	+0.35	+0.31	+0.29	+0.11	+0.09	+0.51	+0.53	+0.59	+0.48	+0.51
1913	+0.70	+0.64	+0.20	0	-0.07	-0.02	-0.04	-0.13	-0.09	-0.11	-0.15	-0.22
1914	-0.24	-0.20	0	-0.18	-0.26	-0.44	-0.81	-1.25	-1.14	-1.03	-1.43	-1.38

*Based upon index in Table IV, reduced to deviations from a curvilinear trend based upon preliminary mathematical approximations smoothed with the aid of a French curve. Seasonal variation adjusted for by method described in "The Measurement of Seasonal Variation," by Helen D. Falkner, in the *Journal of the American Statistical Association*, June, 1924, pp. 167-179. Two sets of seasonal indices were computed, one for 1889 to 1903, the other for 1904 to 1914.

TABLE VI—CYCLES IN PIG IRON PRODUCTION, BY MONTHS, 1890-1914*
Percentage of trend, corrected for seasonal variation

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1890	117.5	121.5	121.5	120.9	122.4	121.3	119.3	118.7	120.1	118.1	116.0	112.0
1891	101.0	92.0	79.2	73.3	85.7	105.4	115.2	116.7	118.1	120.0	119.0	118.4
1892	121.4	126.2	122.7	117.4	114.9	112.0	109.1	104.7	103.8	106.7	109.1	109.0
1893	110.0	113.2	113.2	114.6	116.0	106.1	86.0	63.7	50.9	48.1	54.8	60.8
1894	63.3	68.5	75.5	75.6	55.4	47.1	65.6	89.3	99.6	100.0	102.2	103.1
1895	99.1	97.8	93.0	92.3	93.6	98.3	105.5	112.9	119.9	122.3	121.7	117.5
1896	112.6	108.0	102.8	101.6	100.0	98.1	91.1	77.5	64.4	60.5	67.5	74.8
1897	82.0	84.7	85.9	84.9	84.0	83.1	82.5	88.9	96.9	100.7	104.4	103.7
1898	105.0	105.6	105.9	103.2	101.0	98.1	94.3	94.0	96.0	96.6	98.2	97.9
1899	99.4	95.2	96.8	98.5	100.3	103.4	107.1	108.2	110.4	112.5	112.2	110.4
1900	111.1	109.4	107.5	104.5	106.6	105.7	96.9	87.1	82.1	78.5	77.1	82.8
1901	92.3	98.3	100.0	98.1	102.4	105.0	105.9	103.3	102.3	105.6	104.1	93.8
1902	104.3	99.3	102.7	105.3	108.0	105.5	104.8	105.9	103.9	104.9	101.5	105.9
1903	99.8	102.1	104.4	106.8	111.1	113.9	105.1	105.7	105.2	93.8	68.8	54.5
1904	58.5	80.1	88.1	96.3	92.9	82.8	71.0	73.5	85.5	89.7	92.5	98.0
1905	106.8	103.5	110.8	112.6	113.2	108.7	105.6	109.3	112.8	117.0	118.5	116.8
1906	117.6	116.5	117.0	116.0	114.9	114.3	115.5	108.5	110.6	116.1	122.4	120.0
1907	119.2	118.3	130.4	117.9	121.9	124.1	124.1	120.6	116.2	116.8	96.2	63.7
1908	54.3	57.6	60.0	58.5	59.4	58.1	64.2	68.1	72.0	74.7	77.9	85.9
1909	89.4	90.5	86.3	84.7	92.1	98.5	106.1	110.4	115.5	109.0	123.3	125.3
1910	125.6	122.6	118.8	116.6	111.8	110.2	103.3	98.9	95.5	91.9	89.3	81.6
1911	82.4	88.4	95.1	93.3	84.6	83.3	82.5	86.7	88.1	89.0	90.4	91.1
1912	93.1	96.1	101.7	103.5	107.5	109.4	106.9	109.0	105.9	109.9	114.5	120.4
1913	122.5	118.6	112.8	115.7	115.6	113.3	109.3	106.6	104.1	100.8	94.1	83.0
1914	79.9	83.7	92.6	92.4	82.7	79.7	80.5	81.0	75.9	68.7	61.9	61.5

*Computed from data published in the *Iron Age* and representing prior to October, 1901, estimates made from statistics of furnaces in blast, and subsequent thereto, direct data on production. For method of making adjustments for seasonal variation and trend, see Chapter III.