

DATA APPENDIX

In this appendix the basic sources of data are given and the adjustments which were made in the data are described. First, the data sources and adjustments which were common to nearly all of the seventeen industries are discussed, and then each industry is discussed individually.

All of the data which were used in this study were monthly data, seasonally unadjusted. The basic time period considered was 1947–1965.

For all of the industries the data on the number of production workers employed during the second week of month t , M_{2wt} , on the average number of hours paid-for per production worker during the second week of month t , HP_{2wt} , and on the number of non-production workers (all employees minus production workers) employed during the second week of month t , N_{2wt} , were taken from the Bureau of Labor Statistics (BLS) publication, *Employment and Earnings Statistics for the United States 1909–65*. No adjustments were made in any of these data.

The data on the unemployment rate during the second week of month t , U_{2wt} , for both the durable goods and non-durable goods industries were unpublished and were obtained directly from the BLS for the 1948–1965 period. The mean of U_{2wt} for the 1948–1965 period, denoted as \bar{U} in the text, was 5.30 for the durable goods industry and 5.42 for the non-durable goods industry.

The dummy variable D_t , which was set equal to one during contractions and zero otherwise, was constructed using the monthly peaks and troughs as defined by the National Bureau of Economic Research (NBER). The NBER peak and trough months were taken from the July 1967 issue of *Business Cycle Developments* of the Department of Commerce.

For all of the industries except 301 and 324, the data on the average daily rate of output for month t , Y_{dt} , were taken from the Federal Reserve Board (FRB) publication, *Industrial Production 1957–59 Base*, and the November 1966 supplement. These data were in index number form, with base period 1957–1959. For industry 331, Blast furnace and basic steel products, there were two relevant FRB indices, the index for Blast furnaces and steel works and the index for Steel mill products. The total index for industry 331 was

obtained by computing a weighted average of these two indices, the weights corresponding to the relative 1957-1959 proportions (by value added) of the two indices in the over-all FRB index of industrial production. The weights were .658 for the Blast furnaces and steel works index and .342 for the Steel mill products index. For the Tires and inner tubes industry 301 the output data were taken from publications of the Rubber Manufacturers Association (RMA), and for the Cement industry 324 the output data were taken from publications of the Bureau of Mines. These data are discussed under the relevant industry headings below.

For eight of the industries there were strikes involving 10,000 or more workers during the 1947-1965 period, and as mentioned in § 4.2, adjustments were made in the FRB output series for three of these industries, 242, 271, and 341. These adjustments are presented under the industry headings below.

The output per paid-for man-hour interpolations discussed in ch. 3 and the output per non-production worker interpolations discussed in ch. 10 were unavoidably somewhat subjective in nature, and for reference purposes the months which were used as "peak" months in the interpolations are listed below for each industry. As mentioned in § 3.6, for the beginning of each period the interpolation line was taken to be a horizontal line from the first month to the first peak, and for the end of each period the interpolation line was taken to be a horizontal line from the last peak to the last month.

For industries 301 and 324 data on the stock of inventories at the end of the month were available from publications of the RMA and the Bureau of Mines respectively, and from these data and the above mentioned data on production, data on shipments were constructed. (Actually, independent shipments data were available from the RMA and Bureau of Mines. These data did not exactly agree with the constructed shipments data because of such things as reshipments not being netted out of the shipments series. The two shipments series did not differ by much, however, and for each industry the constructed shipments series was taken to be the better measure of net shipments.) For industries 211 and 212 data on production and shipments were available from publications of the Internal Revenue Service (IRS), and from these data, data on the stock of inventories were constructed in the manner discussed in § 6.3. For industries 201, 301, 331, and 332 unpublished data on the value of shipments and value of inventories at the end of the month were obtained directly from the Bureau of Census. From these data, data on the value of production were constructed. The RMA and Bureau of Mines data on production and inventories and the IRS data on production and shipments are not available in a convenient summary any-

where, and so these data are presented in tabular form below. The Bureau of Census data are not published because of the questionable reliability of some of the figures.

The production and shipments data which were obtained or constructed from sources other than the FRB referred to the amount (or value) of goods produced or shipped during the month rather than to the average daily rate for the month. All of these figures were converted to average daily rates for the month by dividing them by d_t , the number of working days in the month. For each of the industries d_t was constructed using the FRB estimate of the number of working days in the week for the industry. The FRB estimates were taken from *Industrial Production 1957-59 Base*. If, for example, the number of working days in the week was $5\frac{1}{2}$, d_t was taken to be the number of weekdays in month t plus one-half the number of Saturdays in the month. For industry 331 d_t was computed by taking the above men.

TABLE A-1

Industries for which data were converted to average daily rates

Industry	Number of working days in the week	Data which were converted to average daily rates
201	$5\frac{1}{2}$	Census data on the value shipped and the constructed data on the value produced.
211	5	IRS data on the amount produced and the amount shipped.
212	5	IRS data on the amount produced and the amount shipped.
301	$5\frac{1}{2}$	RMA data on the amount produced and the constructed data on the amount shipped.
324	7	Census data on the value shipped and the constructed data on the value produced.
331	7 for 65.8% of industry $5\frac{1}{2}$ for 34.2% of industry	Bureau of Mines data on the amount produced and the constructed data on the amount shipped. Census data on the value shipped and the constructed data on the value produced.
332	5	Census data on the value shipped and the constructed data on the value produced.

tioned weighted average of the d_t for the Blast furnaces and steel works industry and the d_t for the Steel mill products industry. In table A-1 the data which were converted to average daily rates are presented for each industry, along with the FRB estimates of the number of working days in the week.

With respect to the periods of estimation presented below, usually two or three observations before and after a strike were omitted in addition to the actual strike observations. When more than one period of estimation was used for an industry, all of the periods which were used are presented below.

In the discussion which follows 4701 refers to January 1947, 4702 to February 1947, and so on.

Industry 201: Meat products

Months used as peaks in the output per paid-for man-hour interpolation: 4711, 4901, 5101, 5201, 5501, 5601, 5902, 6001, 6203, 6303, 6404.

Months used as peaks in the output per non-production worker interpolation: 4701, 4812, 4912, 5012, 5601, 5910, 6010, 6310, 6410.

Period of estimation: 4809–6506, excluding 5906–6003; 192 obs.

Data used for the estimates presented in ch. 6: Data on value of shipments and value of inventories at the end of the month were unpublished and were obtained directly from the Bureau of Census for the 4801–6512 period.

Months used as peaks in the output per paid-for man-hour interpolation when Census data were used: 4902, 5104, 5402, 5702, 5803, 5811, 6104, 6302, 6502, 6510.

Period of estimation when Census data were used: 4907–6506, excluding 5906–6003; 182 obs.

Industry 207: Confectionery and related products

Months used as peaks in the output per paid-for man-hour interpolation: 4703, 4710, 4909, 5009, 5109, 5509, 5609, 5909, 6009, 6109, 6209, 6309, 6409.

Months used as peaks in the output per non-production worker interpolation: 4710, 4810, 5609, 5709, 6009, 6109, 6209, 6309, 6509.

Period of estimation: 4809–6506, excluding all July, August, December, and January observations; 136 obs.

Industry 211: Cigarettes

Months used as peaks in the output per paid-for man-hour interpolation: 4703, 4905, 5008, 5110, 6102, 6304, 6506.

Months used as peaks in the output per non-production worker interpolation:

4701, 4710, 4804, 5106, 5302, 5408, 5506, 5608, 5808, 6008, 6110, 6405, 6506.
Period of estimation: 4809-6506, excluding all July, August, December, and January observations; 136 obs.

TABLE A-2

Internal Revenue Service data on the number of cigarettes produced and shipped

Number of small cigarettes produced per month in millions of cigarettes ^a												
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1952	37598	32247	33028	34694	36135	36873	36667	40213	39693	41745	33563	33091
1953	34848	34732	38035	34234	33293	36453	33110	37651	36885	37974	33829	32052
1954	32045	29226	35420	33166	34220	38026	31553	36816	35714	34034	32864	28772
1955	34106	30796	36216	31233	36792	38882	30447	39219	34888	35798	34768	29332
1956	35911	32723	35066	32523	38851	37323	33314	40387	33500	39910	36557	28181
1957	39258	34550	35216	34909	40638	37499	38217	40519	37564	40944	33997	29016
1958	39508	33732	35898	38271	40301	41142	39795	42263	41393	44234	37418	36116
1959	39357	37031	38772	41418	40458	41276	43418	44000	42770	45553	39090	36722
1960	40824	38412	43745	39716	44469	47408	37575	47997	44214	43637	43457	35489
1961	42865	40751	45589	40210	47992	48253	37932	50680	43075	49494	46518	34973
1962	45353	39860	45981	41801	49311	44905	41934	50993	43848	48756	47090	35663
1963	47471	41470	43050	45574	52507	45331	45264	50836	45516	51247	44653	37638
1964	45830	31943	41497	46836	44966	48746	46183	48060	47707	50778	45057	42305
1965	44167	43297	51196	47069	45183	51366	42659	50755	48709	45170	47790	39444

Number of small cigarettes (taxable and tax-exempt) shipped per month in millions of cigarettes ^a												
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1952	37273	32282	32985	34662	36268	36876	36670	40338	39275	41666	33794	33925
1953	35147	34605	37961	34310	33245	36434	33253	37428	37183	37673	33873	32675
1954	31558	29314	35160	32984	34350	37796	31718	37069	35359	34065	32997	29456
1955	33082	31171	36367	31187	36739	38371	30931	38992	35013	35386	35060	29927
1956	34962	32865	34994	32615	38915	37244	33529	40441	33357	39867	36170	29226
1957	38696	34151	35489	34780	40633	37486	38227	40776	37503	40894	34120	29497
1958	38856	33891	35592	38273	40410	41321	39660	42608	41071	44186	37477	36664
1959	38878	37288	38279	41313	40226	41653	43422	43929	42635	45463	39043	37380
1960	40348	38268	43506	39571	44532	47310	38259	47576	44120	43327	43526	36790
1961	41999	40301	45996	40324	47812	47721	38741	50764	42684	49093	45909	36323
1962	44413	39119	46173	41817	48819	44831	42584	50928	43711	48682	46207	38247
1963	45884	41307	42983	45754	52356	44828	45761	50873	45572	50480	44833	40044
1964	44324	32402	41069	46830	44840	48798	46461	48128	47289	50707	44785	44455
1965	41174	43590	51090	47497	44760	50909	43399	50744	48105	45518	47140	41773

^a Figures are rounded to the nearest million.

Data used for the estimates presented in ch. 6: Data on the number of small cigarettes produced per month and on the number of small cigarettes (taxable and tax-exempt) shipped per month were obtained for the 5201–6512 period from the annual IRS publication, *Alcohol and Tobacco Summary Statistics*. The data are presented in table A-2. (Note: The FRB index of production for industry 211 is computed using the IRS data.)

Period of estimation when IRS data were used: 5309–6506, excluding all July, August, December, and January observations; 96 obs.

Industry 212: Cigars

Months used as peaks in the output per paid-for man-hour interpolation: 4705, 4710, 5010, 5510, 5610, 5710, 5810, 6110, 6302, 6310, 6410, 6508.

Months used as peaks in the output per non-production worker interpolation: 4710, 4810, 5511, 5609, 5810, 5904, 5910, 6302, 6306, 6308, 6310, 6410.

Period of estimation: 4809–6506, excluding all July, August, December, and January observations; 136 obs.

Data used for the estimates presented in ch. 6: Data on the number of cigars (small and large) produced per month and on the number of cigars (small and large, taxable and tax-exempt) shipped per month were obtained for the 5201–6512 period from the annual IRS publication, *Alcohol and Tobacco Summary Statistics*. The data are presented in table A-3. (Note: The FRB index of production for industry 212 is computed using the IRS data.)

Period of estimation when IRS data were used: 5204–6506, excluding all July, August, December, and January observations; 107 obs.

Industry 231: Men's and boys' suits and coats

Months used as peaks in the output per paid-for man-hour interpolation: 4708, 4908, 5008, 5405, 5505, 5904, 6004, 6108, 6410.

Months used as peaks in the output per non-production worker interpolation: 4703, 4708, 5010, 5305, 5508, 5608, 5908, 6504.

Period of estimation: 4809–6506, excluding all July, August, December, and January observations; 136 obs.

Industry 232: Men's and boys' furnishings

Months used as peaks in the output per paid-for man-hour interpolation: 4702, 4804, 5202, 5303, 5404, 5504, 5605, 5702, 5803, 6004, 6303, 6402, 6502, 6510.

Months used as peaks in the output per non-production worker interpolation: 4702, 4804, 5103, 5303, 5602, 5904, 6004, 6108, 6303, 6402, 6408, 6502, 6504.

Period of estimation: 4809–6506, excluding all July, August, December, and January observations; 136 obs.

TABLE A-3

Internal Revenue Service data on the number of cigars produced and shipped

Number of cigars (small and large) produced per month in millions of cigars ^a												
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1952	502.1	484.2	495.5	485.9	503.9	476.7	434.9	484.6	519.9	585.5	490.2	428.6
1953	479.1	524.9	513.9	499.2	506.1	509.8	435.9	498.0	518.3	565.0	514.0	439.3
1954	468.7	476.9	524.3	468.6	472.2	523.2	393.9	531.2	533.9	548.2	532.8	404.4
1955	445.1	461.1	524.5	446.6	496.4	530.3	368.4	542.1	526.5	532.4	536.5	412.9
1956	488.8	491.9	491.7	474.6	510.6	488.0	390.0	544.0	468.3	575.4	533.7	375.0
1957	498.0	482.5	497.7	484.4	511.7	477.3	399.2	544.8	521.3	598.6	524.1	406.9
1958	520.5	477.9	490.2	490.3	518.4	513.3	456.0	553.3	588.4	677.8	603.9	503.7
1959	610.9	645.2	626.4	663.0	584.2	596.7	506.0	584.2	608.7	660.6	591.2	461.6
1960	557.1	576.7	629.8	549.7	602.3	609.5	430.7	655.0	619.4	632.5	632.0	422.2
1961	534.1	519.9	569.1	499.7	557.3	575.6	388.9	643.0	583.1	657.6	629.3	454.9
1962	583.8	551.6	543.3	555.0	617.2	572.2	416.4	648.3	552.8	674.2	607.4	376.5
1963	574.6	541.9	560.8	536.1	608.3	559.6	479.4	657.6	611.3	714.6	600.1	489.6
1964	640.0	819.5	890.4	911.7	1047.8	786.4	710.2	818.0	824.4	900.5	773.8	579.5
1965	732.7	693.5	1084.6	670.9	673.1	736.3	541.0	788.0	744.7	760.1	692.4	537.7

Number of cigars (small and large, taxable and tax-exempt) shipped per month in millions of cigars^a

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1952	465.7	454.1	453.8	477.1	494.1	502.0	476.4	510.4	515.8	571.9	539.8	458.7
1953	440.3	429.1	481.8	490.0	516.0	514.5	478.5	511.9	531.0	550.5	560.4	459.2
1954	417.4	423.0	487.8	458.8	494.8	522.1	444.2	538.5	515.2	514.7	587.2	438.5
1955	419.4	412.2	480.0	455.4	527.9	525.2	425.8	549.4	546.9	563.0	624.0	442.4
1956	462.9	472.4	511.2	512.2	565.8	490.6	438.6	528.3	466.9	562.0	641.5	373.1
1957	449.0	400.8	429.2	479.0	575.1	465.4	486.0	535.5	514.0	576.0	583.5	396.1
1958	453.9	404.9	451.0	499.4	550.8	516.0	521.5	549.2	561.4	624.0	668.8	461.2
1959	524.7	558.3	607.1	608.7	696.0	698.4	533.3	547.5	573.4	584.3	686.5	459.1
1960	485.0	508.0	552.5	521.8	649.6	596.8	524.0	647.3	603.4	601.5	698.6	385.9
1961	490.0	462.0	584.6	501.9	624.5	563.5	550.2	621.4	572.9	633.4	691.8	381.7
1962	508.6	449.7	542.1	533.3	651.5	562.8	537.4	626.9	537.9	654.9	687.8	350.7
1963	521.4	483.6	509.3	581.3	675.0	540.0	599.9	647.9	598.4	692.5	690.0	440.5
1964	661.4	791.2	844.6	822.2	904.5	756.6	743.7	784.0	751.3	840.4	839.7	497.5
1965	661.3	601.7	697.7	680.8	765.5	701.9	662.6	764.5	715.3	734.4	743.6	488.8

^a Figures are rounded to the nearest million.

Industry 233: Women's, misses', and juniors' outerwear

Months used as peaks in the output per paid-for man-hour interpolation: 4702, 4707, 4807, 4907, 5006, 5206, 5703, 6102, 6402.

Months used as peaks in the output per non-production worker interpolation: 4702, 5403, 5703, 5902, 6004, 6203, 6502.

Period of estimation: 4809–6506, excluding all July, August, December, and January observations; 136 obs.

Industry 242: Sawmills and planing mills

Adjustments made in the FRB output series because of strikes:

5205: 103.5 changed to 113.2.

5406: 108.5 changed to 122.1.

5407: 93.0 changed to 113.7.

5408: 100.5 changed to 128.2.

5409: 112.9 changed to 123.6.

5410: 122.1 changed to 125.9.

Months used as peaks in the output per paid-for man-hour interpolation: 4703, 4805, 5004, 5304, 5402, 5405, 5609, 5703, 5706, 5808, 6003, 6104, 6202, 6303, 6402.

Months used as peaks in the output per non-production worker interpolation: 4705, 4806, 5008, 5506, 5808, 6209, 6309, 6402, 6503, 6509.

Period of estimation: 4809–6506, excluding 5203–5208, 5404–5412, 6304–6310, and all July and August observations; 154 obs.

Industry 271: Newspaper publishing and printing

Adjustments made in the FRB output series because of strikes:

6212: 100.0 changed to 109.5.

6301: 86.6 changed to 101.9.

6302: 90.3 changed to 107.3.

6303: 92.5 changed to 112.9.

6509: 120.9 changed to 127.9.

Months used as peaks in the output per paid-for man-hour interpolation: 4704, 4711, 4810, 5011, 5404, 5510, 5903, 5911, 6111, 6305, 6311, 6505, 6512.

Months used as peaks in the output per non-production worker interpolation: 4704, 4711, 4810, 4910, 5004, 5010, 5511, 5611, 5911, 6011, 6111, 6311, 6404, 6411, 6511.

Period of estimation: 4805–6506, excluding 6210–6305 and all December and January observations; 166 obs.

TABLE A-4

Rubber Manufacturers Association data on the number of tires produced and held in inventory

Number of automobile pneumatic tires produced per month in thousands of tires ^a												
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1947	8507	7915	8576	8333	8104	7583	6789	7164	7918	8888	7716	8049
1948	7852	6386	6931	6574	6931	7584	6667	6957	6909	6734	6084	5701
1949	5898	5893	6580	6758	6933	7391	6263	6228	5622	6488	6036	6271
1950	6811	6674	7311	7556	8612	8455	8296	8193	7833	8667	7520	6818
1951	6748	5874	6678	6531	7106	7212	6718	7533	7413	7771	7374	6441
1952	7870	7462	7785	7183	7429	7356	7092	6928	7387	8635	7360	7919
1953	8230	8228	9397	9278	9002	8587	8153	7398	7131	7665	6566	6481
1954	6298	7040	7978	8065	7965	8796	6358	5426	7277	7867	7623	8441
1955	9036	8741	10078	9143	9939	10692	9020	8710	9118	9554	9602	8477
1956	8974	8893	9189	8832	8985	7928	6740	8048	7798	8799	7636	8538
1957	9503	9169	9765	8946	9486	8485	8440	8914	8637	9702	8243	7610
1958	7816	7314	7571	7478	7656	8297	7295	7768	8282	9349	8394	9377
1959	10192	10278	11360	8036	7805	10377	11229	9689	10108	10893	8353	9649
1960	10325	10774	11115	10518	10756	10864	9778	9137	9174	9530	9044	8804
1961	9253	8623	9249	8920	9645	9963	8880	10345	9893	11164	10342	10497
1962	11500	10369	11277	10928	11711	11974	10410	10721	10651	12857	10844	10622
1963	12430	11709	12541	12547	12123	11186	10182	9368	10540	13442	11503	11497
1964	12684	11838	12566	13333	13215	14042	11510	13235	14356	14894	12799	13634
1965	13884	14126	15242	14632	13228	13460	12174	12821	13920	15330	14194	14838

Number of automobile pneumatic tires held in inventory at the end of the month in thousands of tires^a

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1947	3322	3864	4515	5608	6425	6571	5838	5464	5189	5513	5277	6949
1948	8805	10171	11357	10940	11611	11435	10206	9352	9802	9905	10477	10698
1949	11339	12385	13071	13190	13301	13135	11716	9969	8930	8697	9541	10638
1950	11366	11796	12320	12337	12367	10791	7004	4794	4374	4382	4810	3793
1951	3551	3307	2803	3046	2992	3507	3585	4032	4739	5513	6887	8764
1952	10038	11370	13035	13295	13263	11650	11647	10636	9963	10821	12271	14110
1953	14117	15295	16468	16872	16973	16305	14882	13549	13279	13446	14854	15705
1954	14976	15708	16077	15905	15503	15252	12640	9984	11192	12799	13675	14761
1955	14949	15367	15596	14889	14935	15454	14683	13907	14677	16163	17726	17746
1956	19516	20933	21563	21131	21296	19961	17393	16794	17693	18774	18802	19903
1957	20489	21008	21743	21307	21629	20797	19316	18477	19420	20984	22170	23236
1958	22785	23408	23461	22669	21845	20942	18629	18535	18948	19931	20422	21025
1959	21416	23042	23890	20893	18744	19109	19890	21745	22567	23169	25154	26964
1960	25943	26473	27932	27401	26966	26380	26107	26297	25935	25498	26290	27576
1961	27681	29337	29382	25047	26502	24800	24098	24126	24096	24195	24915	26365
1962	26799	28108	28527	27837	27506	27617	26030	26533	26072	26050	26039	27865
1963	29054	31692	33189	32137	31919	31326	28829	28651	27820	27468	28271	29451
1964	29544	31089	31777	31091	31011	30645	29968	31979	32499	34731	36607	37552
1965	38253	40531	41467	40600	39514	37206	35035	36094	35110	34441	35082	37059

^a The figures are not rounded to the nearest thousand; the last three digits of the figures published by the RMA were merely truncated.

Industry 301: Tires and inner tubes

Data used for the output variable: Data on the number of automobile pneumatic tires produced per month were obtained for the period 4701–6512 from past reports and bulletins of the RMA. The data are presented in table A-4. (Note: The FRB index of production for industry 301 is computed using the RMA data.)

Months used as peaks in the output per paid-for man-hour interpolation: 4703, 4710, 4906, 5010, 5305, 5406, 5506, 5806, 5902, 6004, 6202, 6302, 6502.

Months used as peaks in the output per non-production worker interpolation: 4703, 4710, 5005, 5506, 5910, 6002, 6206, 6303, 6406, 6410, 6502.

Basic period of estimation: 4809–6503, excluding 4906–4912, 5403–5412, 5607–5708, 5805–5808, 5812–5909, and all July and August observations; 134 obs. (Note: 5805 and 5806 were omitted from the period of estimation by accident.)

Period of estimation used when testing the “non-perfect” expectational hypothesis: 4809–6503, excluding 4906–5011, 5403–5511, 5607–5808, 5812–6008, and all July and August observations; 99 obs.

Data used for the estimates presented in ch. 6: Data on the number of automobile pneumatic tires held in inventory at the end of the month were obtained for the period 4701–6512 from past reports and bulletins of the RMA. The data are presented in table A-4.

Data on the value of shipments and value of inventories at the end of the month were unpublished and were obtained directly from the Bureau of Census for the 4801–6512 period.

Months used as peaks in the output per paid-for man-hour interpolation when Census data were used: 4902, 5010, 5103, 5502, 5706, 5802, 5806, 6004, 6104, 6304, 6504.

Industry 311: Leather tanning and finishing

Months used as peaks in the output per paid-for man-hour interpolation: 4702, 5305, 5502, 5602, 5702, 5905, 6104, 6405.

Months used as peaks in the output per non-production worker interpolation: 4704, 4711, 4902, 5102, 5602, 5811, 6210.

Period of estimation: 4809–6506, excluding all July and August observations; 170 obs.

TABLE A-5

Bureau of Mines data on the amount of cement produced and held in inventory

Amount of portland cement produced per month in thousands of 376 pound barrels												
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1947	13406	12618	14205	14566	13389	15971	16342	17480	17319	18300	16814	16123
1948	14541	13347	14502	16041	17740	17757	18721	18961	18605	19349	18435	17425
1949	15261	13751	15439	17682	18622	18279	18856	18715	19181	19070	18040	16967
1950	15174	13070	14238	18088	19950	20007	20709	21884	20945	22488	20226	19116
1951	17434	15201	18708	20184	21924	21984	22439	22514	22269	22997	20737	19874
1952	17039	16545	18095	19817	21829	20748	21342	23573	23010	24164	22048	20881
1953	18856	17325	20215	21802	23399	22698	24134	24289	23795	24738	22529	20243
1954	17769	16895	20097	21730	23279	22802	25482	25698	25522	25887	23826	22290
1955	20223	17611	22340	24818	27031	26762	27332	27861	26958	27924	24894	23075
1956	21440	19578	23386	26134	29606	28771	29498	30055	28643	29051	25869	24429
1957	19320	17827	22642	23967	27485	26462	20287	31406	30884	30121	25014	22386
1958	18320	14125	18038	24001	29274	30078	29833	31675	31597	32847	28031	23590
1959	18604	16710	24337	29093	33428	33455	34180	34800	32590	31127	26100	24111
1960	18699	16080	18422	27015	31999	31930	31982	33270	31181	31533	26469	20505
1961	16744	15038	21851	26463	31102	31594	32511	33262	31474	32348	27625	23393
1962	17051	15309	20454	28089	33719	32304	33388	36132	33669	33926	29339	22940
1963	18289	14750	21525	29314	34497	34992	36802	37452	34682	36624	30377	23993
1964	18931	19729	24697	29493	34417	36185	37220	37700	35834	36333	31100	25968

Amount of portland cement held in inventory at the end of the month in thousands of 376 pound barrels

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1947	15931	20112	22178	21331	19388	17095	13337	10452	7921	5688	6209	9975
1948	15336	20340	20886	17880	16086	12422	10149	8355	7061	6094	6399	11084
1949	17591	22206	23104	22977	22170	19785	19313	14381	10797	8569	9352	14706
1950	20267	23562	23204	22918	20043	15302	12840	9588	7643	5958	6380	13021
1951	18222	22234	23250	22511	19566	16630	14812	11491	10499	7162	9910	17993
1952	22336	24519	26622	24672	23220	18896	15158	12819	9602	6546	8823	15957
1953	21294	24464	23865	24773	25247	21542	19204	16445	12859	10049	13083	19231
1954	25869	27562	28905	27045	25412	19674	17524	14408	10909	9667	10732	16731
1955	23437	27087	26516	26106	23672	18855	16727	12731	9779	8754	11664	17516
1956	25454	28939	29868	28679	26204	22685	20598	17068	15532	13007	15973	22440
1957	29828	32382	34277	34893	33176	29885	24345	20018	20250	19213	23187	28729
1958	33235	36383	36734	35170	33673	33350	30646	27883	24449	20415	23686	30800
1959	34838	36680	36381	36378	36527	33605	30415	28102	25308	23913	27794	31328
1960	37284	38553	39165	38554	40101	37667	36611	33244	30505	28841	30095	35525
1961	37939	38531	38237	39999	39789	37346	37889	33768	31785	28437	30382	36343
1962	39725	40624	39811	39916	40000	38684	36461	31964	32522	29901	32324	38531
1963	42282	42293	42333	41416	40668	40322	38057	35209	33236	28485	32491	39556
1964	41062	43180	45156	45468	44368	41860	38436	36671	34631	30352	33492	39585

Industry 314: Footwear, except rubber

Months used as peaks in the output per paid-for man-hour interpolation: 4703, 4710, 4910, 5004, 5204, 5404, 5410, 5604, 5703, 5803, 6303, 6502.

Months used as peaks in the output per non-production worker interpolation: 4703, 4710, 5103, 5208, 5602, 5902, 6202, 6502, 6508.

Period of estimation: 4809–6506, excluding all July, August, December, and January observations; 136 obs.

Industry 324: Cement, hydraulic

Data used for the output variable: Data on the amount of portland cement produced per month were obtained for the period 4701–6412 from past publications of the Bureau of Mines. (The Bureau of Mines ended its collection of these data in 1964.) The data are presented in table A-5. (Note: the FRB index of production for industry 324 before 1965 was computed using the Bureau of Mines data on production; since 1965 the FRB index has been computed using a Bureau of Mines series on shipments.)

Months used as peaks in the output per paid-for man-hour interpolation: 4710, 4809, 4909, 5010, 5109, 5209, 5310, 5409, 5505, 5605, 5708, 5810, 5906, 6008, 6108, 6208, 6310, 6410.

Months used as peaks in the output per non-production worker interpolation: 4709, 4807, 5010, 5106, 5506, 5605, 5810, 5908, 6208.

Period of estimation: 4805–6408, excluding 5703–5711; 187 obs.

Data used for the estimates presented in ch. 6: Data on the amount of portland cement held in inventory at the end of the month were obtained for the period 4701–6412 from past publications of the Bureau of Mines. The data are presented in table A-5.

Industry 331: Blast furnace and basic steel products

Months used as peaks in the output per paid-for man-hour interpolation: 4703, 4903, 5004, 5108, 5303, 5503, 5603, 5703, 5903, 6202, 6305, 6503.

Months used as peaks in the output per non-production worker interpolation: 4704, 4902, 5111, 5505, 5905, 6305, 6504.

Period of estimation: 4809–6506, excluding 4907–5004, 5106–5108, 5111–5301, 5604–5701, 5903–6004, and all July and August observations; 128 obs.

Data used for the estimates presented in ch. 6: Data on the value of shipments and value of inventories at the end of the month were unpublished and were obtained directly from the Bureau of Census for the 4901–6512 period.

Months used as peaks in the output per paid-for man-hour interpolation

when Census data were used: 4902, 5109, 5211, 5306, 5308, 5511, 5611, 5904, 6306.

Period of estimation when Census data were used: 5005–6506, excluding 5106–5108, 5111–5301, 5604–5701, 5903–6004, and all July and August observations; 118 obs.

Industry 332: Iron and steel foundries

Months used as peaks in the output per paid-for man-hour interpolation: 4703, 4810, 4904, 5004, 5402, 5504, 5810, 5905, 6306.

Months used as peaks in the output per non-production worker interpolation: 4703, 4810, 5010, 5510, 5905, 6405, 6505.

Period of estimation: 4809–6506, excluding all July and August observations; 170 obs.

Data used for the estimates presented in ch. 6: Data on value of shipments and value of inventories at the end of the month were unpublished and were obtained directly from the Bureau of Census for the 5301–6512 period. Months used as peaks in the output per paid-for man-hour interpolation when Census data were used: 5302, 5402, 5502, 5606, 5609, 5706, 5905, 6002, 6204, 6405.

Period of estimation when Census data were used: 5309–6506, excluding all July and August observations; 120 obs.

Industry 336: Non-ferrous foundries

Months used as peaks in the output per paid-for man-hour interpolation: 4702, 4802, 4810, 5004, 5410, 5504, 5902, 6402.

Months used as peaks in the output per non-production worker interpolation: 4703, 5012, 5503, 5602, 5905, 6503.

Period of estimation: 4809–6506, excluding all July and August observations; 170 obs.

Industry 341: Metal cans

Adjustments made in the FRB output series because of strikes: 5312: 45.8 changed to 74.6.

Months used as peaks in the output per paid-for man-hour interpolation: 4708, 4908, 5510, 5609, 5808, 5908, 6108, 6209.

Months used as peaks in the output per non-production worker interpolation: 4708, 4809, 5208, 5308, 5609, 5909, 6108, 6408, 6508.

Period of estimation: 4805–6410, excluding 5309–5403; 191 obs.