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## Appendix B

*Detailed Product-by-Product Annual Listing of  
Alternative and Official Price Indexes (1972 = 1.00)***List of Tables**

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**Table B.1** Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 4, Office, Computing, and Accounting Machinery

## A. 10-Key Adding Machines

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	3.28	1.04	3.15	.97	1
1948	3.53	1.12	3.16	.94	1
1949	3.48	1.12	3.12	.94	1
1950	3.48	1.16	3.01	.93	2
1951	3.64	1.27	2.85	.92	2
1952	3.56	1.27	2.79	.70	5
1953	3.53	1.26	2.79	.47	7
1954	3.53	1.32	2.67	.47	5
1955	3.66	1.36	2.68	.46	2
1956	3.40	1.41	2.41	.44	3
1957	3.40	1.44	2.37	.37	6
1958	3.40	1.41	2.41	.29	4
1959	2.57	1.36	1.89	.28	1
1960	2.17	1.37	1.58	.25	1
1961	1.86	1.33	1.40	.21	2
1962	1.86	1.20	1.54	.20	2
1963	1.86	1.20	1.55	.19	2

Table B.1A (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1964	1.77	1.18	1.50	.17	2
1965	1.31	1.16	1.13	.14	1
1966	1.16	1.16	1.00	.12	2
1967	1.10	1.16	.95	.11	2
1968	1.05	1.16	.90	.11	3
1969	1.05	1.14	.92	.09	2
1970	1.00	1.09	.92	.07	1
1971	1.00	1.01	.99	.07	2
1972	1.00	1.00	1.00	.07	1
1973	1.09	.96	1.13	.09	2
1974	1.05	.95	1.10	.09	1
1975	1.05	.99	1.06	.09	2
1976	1.04	.94	1.11	.09	2
1977	.95	.91	1.05	.10	1
1978	.88	.91	.96	.10	1
1979	.74	.89	.83	.09	1
1980	.72	.86	.85	.08	1
1981	.70	.85	.82	.08	1
1982	.70	.83	.85	.08	1
1983	.70	.81	.86	.08	1

## B. Cash Registers

Year	Sears	PPI	Sears/PPI	Weight	Models
1953	.95	.66	1.44	.47	1
1954	1.01	.67	1.51	.47	1
1955	1.01	.68	1.49	.46	1
1956	1.06	.71	1.51	.44	2
1957	1.06	.73	1.45	.37	2
1958	1.13	.74	1.53	.29	1
1959	1.13	.74	1.52	.28	2
1960	1.16	.74	1.57	.25	1
1961	1.19	.75	1.60	.21	2
1962	1.12	.75	1.49	.20	2
1963	1.10	.76	1.46	.19	1
1964	1.10	.77	1.44	.17	1
1965	1.12	.77	1.46	.14	1
1966	1.05	.78	1.35	.12	1
1967	1.04	.80	1.31	.11	2
1968	1.10	.80	1.37	.11	2
1969	1.09	.82	1.32	.09	1
1970	1.09	.88	1.23	.07	1
1971	1.00	.95	1.06	.07	1
1972	1.00	1.00	1.00	.07	1
1973	1.00	1.08	.92	.09	1
1974	1.00	1.16	.86	.09	1
1975	1.00	1.30	.77	.09	2
1976	1.02	1.19	.86	.09	1
1977	1.04	1.25	.84	.05	1
1978	1.04	1.28	.82	.00	1

(continued)

Table B.1 (continued)

## C. Manual Typewriters

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	1.19	.73	1.62	.06	2
1949	1.25	.73	1.70	.06	2
1950	1.27	.75	1.69	.06	2
1951	1.32	.77	1.71	.06	3
1952	1.31	.78	1.66	.05	3
1953	1.31	.87	1.51	.03	3
1954	1.37	.92	1.48	.03	3
1955	1.44	.96	1.50	.03	3
1956	1.48	.99	1.50	.03	4
1957	1.45	1.07	1.35	.03	2
1958	1.54	1.12	1.38	.02	5
1959	1.50	1.14	1.32	.02	5
1960	1.38	1.14	1.21	.02	1
1961	1.31	1.07	1.22	.01	2
1962	1.33	1.06	1.25	.01	2
1963	1.31	1.07	1.23	.01	1
1964	1.31	1.06	1.24	.01	3
1965	1.20	1.05	1.14	.01	4
1966	1.16	1.04	1.12	.01	5
1967	1.10	1.04	1.06	.01	2
1968	1.10	1.03	1.07	.01	5
1969	1.08	1.00	1.08	.01	3
1970	1.05	1.00	1.05	.01	3
1971	1.00	.99	1.02	.01	2
1972	1.00	1.00	1.00	.01	2
1973	1.00	1.03	.97	.01	1
1974	1.00	1.11	.90	.01	1
1975	1.20	1.20	1.00	.01	1
1976	1.25	1.25	1.00	.01	3
1977	1.27	1.26	1.00	.01	3
1978	1.30	1.31	.99	.01	3
1979	1.37	1.41	.97	.01	2
1980	1.37	1.46	.94	.01	1
1981	1.37	1.52	.90	.01	2
1982	1.53	1.49	1.03	.01	2
1983	1.52	1.46	1.05	.01	2

## D. Electric Typewriters

Year	Sears	PPI	Sears/PPI	Weight	Models
1958	1.63	.85	1.91	.22	0
1959	1.44	.89	1.61	.21	1
1960	1.27	.90	1.41	.20	1
1961	1.11	.90	1.23	.17	1
1962	1.11	.91	1.21	.17	1
1963	1.09	.93	1.16	.17	2
1964	1.07	.94	1.13	.17	2
1965	1.06	.97	1.09	.18	2
1966	.99	.97	1.02	.18	2
1967	1.00	.99	1.01	.17	2
1968	.96	1.00	.96	.16	3

Table B.1D (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1969	.99	1.02	.97	.13	3
1970	1.00	1.04	.96	.10	2
1971	1.00	.99	1.01	.09	2
1972	1.00	1.00	1.00	.10	2
1973	1.03	1.04	.99	.12	2
1974	1.05	1.12	.94	.12	2
1975	1.12	1.20	.93	.12	3
1976	1.14	1.22	.94	.12	5
1977	1.23	1.26	.97	.13	4
1978	1.24	1.39	.89	.13	6
1979	1.24	1.48	.84	.13	3
1980	1.37	1.44	.95	.12	2
1981	1.37	1.41	.98	.11	3
1982	1.47	1.40	1.05	.11	5
1983	1.46	1.32	1.11	.11	5

## E. Electronic Computing Machines, BEA Deflator for Computer Systems

Year	Hedonic	NIPA	Hedonic/NIPA	Weight	Models
1951	108.85	1.51	71.96	.01	1
1952	70.22	1.51	46.42	.02	1
1953	45.30	1.51	29.95	.03	1
1954	29.22	1.51	19.32	.04	4
1955	23.21	1.51	15.34	.06	6
1956	21.59	1.51	14.27	.08	1
1957	19.75	1.51	13.06	.12	2
1958	17.95	1.51	11.87	.18	9
1959	13.12	1.51	8.68	.21	4
1960	11.30	1.51	7.47	.28	16
1961	8.06	1.51	5.33	.39	20
1962	6.27	1.51	4.14	.42	7
1963	5.51	1.51	3.64	.42	13
1964	4.19	1.51	2.77	.48	9
1965	2.84	1.51	1.88	.52	24
1966	2.08	1.51	1.38	.57	9
1967	1.96	1.51	1.29	.59	9
1968	1.60	1.51	1.06	.61	3
1969	1.33	1.51	.88	.64	9
1970	1.25	1.35	.92	.68	12
1971	1.12	1.16	.96	.71	3
1972	1.00	1.00	1.00	.68	36
1973	.87	.90	.97	.61	6
1974	.82	.71	1.16	.59	12
1975	.77	.65	1.19	.60	21
1976	.63	.57	1.11	.60	16
1977	.58	.49	1.19	.62	34
1978	.53	.41	1.29	.66	86
1979	.42	.36	1.18	.68	71
1980	.33	.29	1.13	.71	66
1981	.25	.26	.96	.73	92
1982	.19	.25	.79	.72	96
1983	.15	.19	.78	.72	107

(continued)

Table B.1 (continued)

## F. Electronic Calculators

Year	Sears	PPI	Sears/PPI	Weight	Models
1970	3.29	1.18	2.80	.07	1
1971	2.11	1.20	1.76	.07	2
1972	1.00	1.00	1.00	.07	2
1973	1.00	.99	1.01	.09	6
1974	.84	.85	.99	.09	8
1975	.49	.68	.72	.09	9
1976	.40	.54	.73	.09	11
1977	.34	.48	.70	.10	19
1978	.31	.49	.64	.10	5
1979	.27	.48	.55	.09	6
1980	.26	.48	.55	.08	4
1981	.26	.48	.55	.08	6
1982	.26	.46	.57	.08	7
1983	.24	.45	.54	.08	2

## G. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	5.14	.98	5.25	1.00	1
1948	5.52	1.05	5.26	1.00	3
1949	5.46	1.05	5.21	1.00	3
1950	5.47	1.09	5.03	1.00	4
1951	5.71	1.19	4.80	1.00	6
1952	5.56	1.19	4.66	1.00	9
1953	5.47	1.19	4.59	1.00	12
1954	5.57	1.23	4.53	1.00	13
1955	5.63	1.26	4.46	1.00	12
1956	5.55	1.30	4.26	1.00	10
1957	5.50	1.34	4.11	1.00	12
1958	5.57	1.33	4.18	1.00	19
1959	4.72	1.33	3.55	1.00	13
1960	4.28	1.34	3.20	1.00	20
1961	3.66	1.33	2.76	1.00	27
1962	3.28	1.31	2.51	1.00	14
1963	3.09	1.31	2.36	1.00	19
1964	2.71	1.31	2.07	1.00	17
1965	2.14	1.31	1.63	1.00	32
1966	1.75	1.32	1.33	1.00	19
1967	1.68	1.33	1.27	1.00	17
1968	1.48	1.33	1.12	1.00	16
1969	1.33	1.34	1.00	1.00	18
1970	1.27	1.25	1.02	1.00	20
1971	1.13	1.12	1.01	1.00	12
1972	1.00	1.00	1.00	1.00	44
1973	.92	.94	.98	1.00	18
1974	.87	.81	1.07	1.00	25
1975	.81	.77	1.04	1.00	38
1976	.70	.69	1.02	1.00	38
1977	.66	.63	1.06	1.00	62
1978	.62	.58	1.08	1.00	102
1979	.51	.53	.98	1.00	83

**Table B.1G** (continued)

Year	Alternative	Official	Alternative/Official	Weight	Models
1980	.43	.45	.97	1.00	74
1981	.36	.42	.86	1.00	104
1982	.30	.40	.76	1.00	111
1983	.24	.33	.75	1.00	117

**Table B.2 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 5, Communication Equipment**

**A. Telephone Transmission and Switching Equipment**

Year	Flamm	BEA	Alternative/BEA	Weight	Models
1947	2.74	.63	4.32	.95	1
1948	2.57	.64	4.02	.95	1
1949	2.41	.63	3.80	.95	1
1950	2.23	.65	3.43	.95	1
1951	2.12	.68	3.12	.95	1
1952	1.99	.66	3.01	.95	2
1953	1.64	.64	2.58	.95	2
1954	1.53	.64	2.38	.95	2
1955	1.45	.65	2.25	.95	2
1956	1.56	.66	2.36	.95	2
1957	1.42	.69	2.05	.95	2
1958	1.19	.71	1.68	.95	2
1959	.97	.71	1.36	.95	2
1960	1.04	.71	1.46	.95	2
1961	1.02	.71	1.43	.95	2
1962	1.08	.71	1.52	.95	2
1963	.95	.72	1.32	.95	2
1964	.95	.73	1.30	.95	4
1965	.79	.74	1.06	.95	4
1966	.80	.75	1.06	.95	4
1967	.77	.78	.98	.95	4
1968	.78	.82	.95	.95	4
1969	.79	.86	.92	.95	4
1970	.85	.90	.94	.95	4
1971	.94	.95	.99	.95	4
1972	1.00	1.00	1.00	.95	7
1973	1.00	1.04	.96	.95	7
1974	1.09	1.14	.96	.95	7
1975	1.10	1.25	.88	.95	7
1976	1.07	1.32	.81	.95	7
1977	1.05	1.37	.77	.95	7
1978	1.05	1.38	.76	.95	7
1979	.96	1.41	.68	.95	7
1980	.83	1.48	.56	.95	7
1981	.86	1.60	.53	.95	7
1982	.89	1.76	.51	.95	7
1983	.76	1.87	.41	.95	4

**B. Radio Receivers**

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	1.38	1.58	.87	.02	2
1948	1.43	1.64	.87	.02	2
1949	1.28	1.70	.75	.02	4
1950	1.22	1.59	.77	.02	5
1951	1.25	1.53	.82	.02	3
1952	1.25	1.52	.82	.02	5
1953	1.32	1.53	.87	.02	4
1954	1.22	1.45	.84	.02	2
1955	1.29	1.42	.91	.02	2
1956	1.29	1.45	.89	.02	5



Table B.2B (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1957	1.29	1.55	.83	.02	4
1958	1.30	1.56	.84	.02	3
1959	1.30	1.46	.89	.02	4
1960	1.29	1.44	.89	.02	3
1961	1.16	1.41	.83	.02	3
1962	1.13	1.40	.81	.02	6
1963	1.07	1.37	.78	.02	4
1964	1.06	1.35	.79	.02	4
1965	.95	1.32	.72	.02	4
1966	.89	1.31	.68	.02	4
1967	.91	1.30	.70	.02	4
1968	.94	1.26	.74	.02	4
1969	.94	1.15	.82	.02	2
1970	.94	1.12	.84	.02	1
1971	.94	1.06	.89	.02	11
1972	1.00	1.00	1.00	.02	15
1973	.83	1.01	.82	.02	6
1974	.83	1.05	.79	.02	2
1975	.73	1.02	.72	.02	4
1976	.66	1.11	.59	.02	2
1977	.64	1.01	.63	.02	5
1978	.64	1.19	.54	.02	3
1979	.61	1.16	.53	.02	3
1980	.65	1.10	.59	.02	4
1981	.66	.99	.67	.02	6
1982	.71	.97	.73	.02	5
1983	.71	.96	.74	.02	2

C. Table Television Sets

Year	CR	PPI	CR/PPI	Weight	Models
1947	8.37	1.42	5.90	.03	3
1948	7.21	1.48	4.89	.03	3
1949	5.70	1.53	3.73	.03	3
1950	4.23	1.43	2.97	.03	3
1951	3.47	1.37	2.53	.03	3
1952	2.74	1.37	2.00	.03	3
1953	2.37	1.37	1.73	.03	3
1954	2.07	1.31	1.58	.03	2
1955	1.82	1.27	1.43	.03	4
1956	1.91	1.28	1.49	.03	4
1957	2.00	1.29	1.54	.03	6
1958	1.93	1.30	1.49	.03	2
1959	1.89	1.28	1.47	.03	4
1960	1.85	1.27	1.46	.03	4
1961	1.82	1.25	1.45	.03	2
1962	1.72	1.22	1.42	.03	4
1963	1.54	1.19	1.29	.03	4
1964	1.46	1.17	1.25	.03	5
1965	1.34	1.14	1.17	.03	3
1966	1.20	1.12	1.07	.03	3
1967	1.16	1.10	1.05	.03	4
1968	1.15	1.07	1.07	.03	2
1969	1.13	1.02	1.11	.03	2

(continued)

Table B.2C (continued)

Year	CR	PPI	CR/PPI	Weight	Models
1970	1.11	1.01	1.09	.03	3
1971	1.05	1.02	1.03	.03	3
1972	1.00	1.00	1.00	.03	3
1973	.97	.97	.99	.03	3
1974	.96	.98	.98	.03	4
1975	.94	1.02	.92	.03	8
1976	.91	1.01	.91	.03	7
1977	.89	.94	.95	.03	4
1978	.86	.93	.92	.03	2
1979	.83	.95	.88	.03	1
1980	.80	.98	.81	.03	2
1981	.76	.97	.78	.03	4
1982	.73	.95	.77	.03	6
1983	.69	.92	.76	.03	3

## D. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	2.81	.66	4.25	1.00	6
1948	2.63	.67	3.94	1.00	6
1949	2.45	.66	3.70	1.00	8
1950	2.25	.68	3.33	1.00	9
1951	2.13	.70	3.03	1.00	7
1952	1.99	.69	2.91	1.00	10
1953	1.66	.66	2.50	1.00	9
1954	1.54	.67	2.31	1.00	6
1955	1.46	.67	2.19	1.00	8
1956	1.57	.69	2.28	1.00	11
1957	1.43	.72	2.00	1.00	12
1958	1.21	.73	1.66	1.00	7
1959	1.00	.73	1.36	1.00	10
1960	1.06	.73	1.45	1.00	9
1961	1.04	.73	1.42	1.00	7
1962	1.10	.73	1.50	1.00	12
1963	.97	.74	1.31	1.00	10
1964	.97	.75	1.29	1.00	13
1965	.80	.76	1.06	1.00	11
1966	.81	.77	1.06	1.00	11
1967	.78	.80	.98	1.00	12
1968	.79	.83	.95	1.00	10
1969	.80	.87	.92	1.00	8
1970	.86	.91	.95	1.00	8
1971	.94	.95	.99	1.00	18
1972	1.00	1.00	1.00	1.00	25
1973	.99	1.04	.96	1.00	16
1974	1.08	1.13	.96	1.00	13
1975	1.09	1.23	.88	1.00	19
1976	1.05	1.31	.81	1.00	16
1977	1.04	1.35	.77	1.00	16
1978	1.03	1.36	.76	1.00	12
1979	.94	1.39	.68	1.00	11
1980	.82	1.45	.57	1.00	13
1981	.85	1.57	.54	1.00	17
1982	.88	1.71	.52	1.00	18
1983	.76	1.80	.42	1.00	9

**Table B.3** Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 9, Fabricated Metal Products

## A. Gas Warm Air Furnaces

Year	Sears	PPI	Sears/PPI	Weight	Models
1951	1.06	1.09	.97	.08	2
1952	1.08	1.06	1.02	.08	1
1953	1.12	1.07	1.04	.08	2
1954	1.12	1.05	1.07	.08	3
1955	1.05	1.04	1.01	.07	2
1956	1.14	1.08	1.06	.07	2
1957	1.14	1.08	1.05	.07	2
1958	1.14	1.05	1.09	.07	2
1959	1.07	1.05	1.03	.07	3
1960	1.08	1.01	1.07	.06	3
1961	1.04	.92	1.14	.06	6
1962	.95	.88	1.08	.05	5
1963	.95	.86	1.11	.05	5
1964	.90	.85	1.05	.06	4
1965	.80	.84	.96	.06	4
1966	.81	.85	.96	.06	4
1967	.81	.85	.95	.06	2
1968	.78	.89	.87	.06	2
1969	.82	.91	.91	.06	2
1970	.83	.97	.86	.06	2
1971	.93	.99	.94	.06	2
1972	1.00	1.00	1.00	.06	2
1973	.98	1.01	.97	.06	2
1974	1.01	1.09	.92	.06	2
1975	1.43	1.21	1.18	.06	4
1976	1.47	1.28	1.15	.06	4
1977	1.47	1.35	1.09	.06	4
1978	1.57	1.43	1.09	.05	4
1979	1.75	1.58	1.11	.05	4
1980	1.80	1.78	1.01	.04	4
1981	2.12	1.99	1.07	.05	4
1982	2.05	2.15	.96	.05	4
1983	2.29	2.21	1.04	.05	4

## B. Gas Hot Water Heaters

Year	Sears Hedonic	PPI	Hedonic/PPI	Weight	Models
1947	1.34	.90	1.48	.12	2
1948	1.42	.97	1.46	.09	5
1949	1.45	1.04	1.40	.09	5
1950	1.36	1.03	1.33	.08	5
1951	1.54	1.12	1.38	.08	3
1952	1.64	1.10	1.49	.08	3
1953	1.68	1.08	1.56	.08	4
1954	1.44	1.05	1.37	.08	4
1955	1.38	1.06	1.31	.07	7
1956	1.33	1.05	1.27	.07	7
1957	1.34	1.04	1.29	.07	9
1958	1.25	.99	1.26	.07	6
1959	1.15	.97	1.19	.07	8

(continued)

Table B.3B (continued)

Year	Sears Hedonic	PPI	Hedonic/PPI	Weight	Models
1960	1.13	.89	1.28	.06	8
1961	1.05	.81	1.29	.06	8
1962	.96	.80	1.19	.05	6
1963	.96	.82	1.16	.05	6
1964	.94	.80	1.18	.06	6
1965	.87	.80	1.08	.06	4
1966	.89	.82	1.09	.06	6
1967	.87	.80	1.08	.06	6
1968	.82	.81	1.02	.06	10
1969	.89	.84	1.06	.06	11
1970	.90	.91	.99	.06	11
1971	1.00	.95	1.05	.06	12
1972	1.00	1.00	1.00	.06	12
1973	1.01	1.02	.99	.06	11
1974	1.00	1.06	.95	.06	11
1975	1.24	1.22	1.02	.06	13
1976	1.35	1.40	.96	.06	14
1977	1.49	1.43	1.04	.06	20
1978	1.55	1.49	1.04	.05	25
1979	1.71	1.61	1.06	.05	20
1980	1.72	1.76	.98	.04	24
1981	1.72	1.86	.92	.05	19
1982	1.72	1.99	.86	.05	28
1983	1.75	2.08	.84	.05	29

## C. Water Storage Tanks

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.61	.79	.77	.16	1
1949	.71	.74	.95	.16	2
1950	.67	.73	.92	.15	2
1951	.85	.80	1.06	.14	2
1952	.81	.80	1.01	.14	1
1953	.77	.81	.95	.14	2
1954	.74	.76	.97	.14	2
1955	.71	.80	.88	.14	2
1956	.71	.95	.74	.14	2
1957	.71	.99	.71	.14	2
1958	.74	.93	.80	.14	2
1959	.73	.95	.76	.15	3
1960	.79	.94	.84	.15	3
1961	.77	.92	.84	.16	4
1962	.83	.91	.90	.17	2
1963	.83	.90	.91	.17	2
1964	.87	.90	.97	.16	2
1965	.87	.89	.98	.16	4
1966	.89	.89	1.00	.14	4
1967	.90	.89	1.01	.13	4
1968	.97	.89	1.09	.13	4
1969	1.03	.89	1.16	.13	4
1970	1.00	.92	1.09	.13	5
1971	1.00	.95	1.06	.13	5
1972	1.00	1.00	1.00	.13	4

Table B.3C (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1973	1.00	1.08	.93	.13	3
1974	1.05	1.36	.77	.14	3
1975	1.31	1.62	.81	.14	4
1976	1.39	1.62	.86	.13	4
1977	1.36	1.72	.79	.13	4
1978	1.45	1.84	.79	.12	4
1979	1.51	1.96	.77	.11	4
1980	1.76	2.42	.73	.10	3
1981	2.00	2.71	.74	.12	3
1982	2.25	2.78	.81	.14	4
1983	2.28	2.72	.84	.14	4

## D. Steam Boilers for Electricity Generation

Year	Hedonic	PPI	Hedonic/PPI	Weight	Models
1948	3.15	.68	4.66	.30	14
1949	2.92	.64	4.59	.30	6
1950	2.70	.62	4.33	.29	9
1951	2.22	.68	3.25	.28	12
1952	1.84	.68	2.69	.28	5
1953	1.84	.69	2.67	.28	12
1954	1.84	.65	2.82	.27	10
1955	1.43	.69	2.08	.26	4
1956	1.11	.81	1.37	.26	5
1957	1.31	.85	1.55	.26	10
1958	1.55	.79	1.96	.27	7
1959	1.39	.81	1.71	.27	6
1960	1.25	.80	1.56	.27	7
1961	1.19	.78	1.53	.27	2
1962	1.14	.78	1.46	.27	8
1963	1.05	.79	1.33	.28	8
1964	.97	.79	1.22	.31	6
1965	.79	.80	.98	.33	8
1966	.64	.81	.79	.32	3
1967	.64	.82	.78	.30	7
1968	.64	.83	.77	.28	5
1969	.78	.86	.90	.27	3
1970	.94	.92	1.02	.26	11
1971	.97	.98	.99	.24	10
1972	1.00	1.00	1.00	.22	5
1973	1.18	1.08	1.10	.21	6
1974	1.40	1.19	1.18	.20	12
1975	1.60	1.31	1.22	.21	6
1976	1.83	1.45	1.26	.22	6
1977	1.78	1.59	1.12	.23	1
1978	1.74	1.62	1.07	.23	7
1979	1.39	1.72	.80	.24	7
1980	3.28	2.15	1.53	.24	10
1981	3.41	2.59	1.32	.12	5
1982	3.54	2.76	1.28	.00	6

(continued)

Table B.3 (continued)

## E. Brass Gate Valves

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.57	.33	1.73	.30	2
1948	.52	.34	1.54	.21	2
1949	.52	.35	1.48	.21	2
1950	.50	.38	1.34	.20	2
1951	.57	.47	1.22	.19	2
1952	.62	.47	1.34	.19	2
1953	.64	.49	1.31	.19	2
1954	.69	.50	1.38	.19	2
1955	.69	.56	1.24	.19	2
1956	.81	.68	1.20	.19	2
1957	.75	.70	1.07	.19	2
1958	.75	.65	1.15	.19	2
1959	.64	.66	.98	.18	2
1960	.63	.67	.94	.18	2
1961	.63	.64	.99	.18	2
1962	.77	.67	1.15	.18	2
1963	.63	.68	.93	.17	2
1964	.63	.70	.91	.16	2
1965	.70	.71	.98	.16	2
1966	.77	.82	.94	.14	2
1967	.93	.84	1.11	.12	2
1968	.88	.86	1.02	.12	2
1969	.94	.82	1.14	.12	2
1970	.96	.88	1.09	.12	2
1971	.96	.96	1.00	.11	2
1972	1.00	1.00	1.00	.11	2
1973	1.04	1.06	.98	.11	2
1974	1.04	1.39	.75	.11	2
1975	1.31	1.56	.84	.11	2
1976	1.31	1.58	.83	.12	1
1977	1.31	1.59	.83	.12	1
1978	1.37	1.67	.82	.12	1
1979	1.64	1.88	.88	.12	1
1980	1.64	2.12	.77	.12	1
1981	1.92	2.16	.89	.15	1
1982	1.92	2.18	.88	.18	1
1983	2.19	2.12	1.03	.18	1

## F. Steel Safes

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.54	.29	1.88	.23	1
1948	.49	.33	1.48	.16	1
1949	.59	.34	1.71	.16	1
1950	.59	.36	1.61	.16	1
1951	.62	.46	1.35	.15	1
1952	.64	.44	1.46	.15	1
1953	.64	.48	1.34	.15	1
1954	.64	.50	1.29	.15	1
1955	.65	.52	1.25	.15	1
1956	.70	.58	1.21	.15	1
1957	.75	.62	1.21	.15	1

Table B.3F (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1958	.82	.64	1.27	.15	1
1959	.79	.66	1.19	.15	1
1960	.85	.69	1.23	.15	1
1961	.85	.70	1.22	.15	1
1962	.77	.73	1.07	.15	1
1963	.77	.73	1.05	.15	1
1964	.77	.74	1.05	.13	1
1965	.77	.74	1.05	.12	1
1966	.80	.74	1.08	.10	1
1967	.80	.78	1.03	.09	1
1968	.85	.86	.99	.09	1
1969	.90	.93	.97	.09	1
1970	.92	.93	.99	.09	1
1971	.95	.96	.98	.09	1
1972	1.00	1.00	1.00	.09	1
1973	.91	1.03	.88	.09	1
1974	.87	1.09	.80	.10	1
1975	1.19	1.16	1.02	.11	6
1976	1.19	1.23	.97	.13	6
1977	1.30	1.30	1.00	.14	6
1978	1.43	1.38	1.04	.16	5
1979	1.60	1.52	1.06	.18	5
1980	1.65	1.70	.97	.19	2
1981	1.65	1.87	.88	.24	2
1982	1.81	2.04	.89	.28	6
1983	1.88	2.23	.85	.28	2

## G. Cast Iron Radiators and Convectors

Year	Unit Value	PPI	UnitValue/PPI	Weight	Models
1947	.35	.30	1.18	.12	1
1948	.42	.37	1.14	.09	1
1949	.45	.40	1.13	.09	1
1950	.45	.40	1.13	.08	1
1951	.51	.44	1.15	.08	1
1952	.54	.45	1.20	.08	1
1953	.56	.48	1.15	.08	1
1954	.59	.50	1.19	.08	1
1955	.57	.51	1.12	.07	1
1956	.60	.53	1.14	.07	1
1957	.59	.56	1.05	.07	1
1958	.61	.57	1.07	.07	1
1959	.60	.59	1.03	.07	1
1960	.60	.59	1.03	.06	1
1961	.63	.59	1.08	.06	1
1962	.66	.60	1.09	.05	1
1963	.64	.62	1.04	.05	1
1964	.66	.64	1.03	.06	1
1965	.65	.64	1.01	.06	1
1966	.66	.67	.97	.06	1
1967	.65	.69	.95	.06	1
1968	.71	.74	.95	.06	1
1969	.86	.78	1.09	.06	6

(continued)

Table B.3G (continued)

Year	Unit Value	PPI	UnitValue/PPI	Weight	Models
1970	.81	.94	.86	.06	6
1971	.93	1.00	.93	.06	6
1972	1.00	1.00	1.00	.06	6
1973	1.14	1.01	1.12	.06	6
1974	1.43	1.35	1.06	.06	6
1975	1.84	1.65	1.12	.03	6
1976	1.89	1.76	1.08	.00	6

## H. PVC Piping

Year	Sears	PPI	Sears/PPI	Weight	Models
1967	1.02	.86	1.18	.12	5
1968	1.02	.91	1.13	.12	5
1969	1.02	1.00	1.02	.12	5
1970	1.00	1.08	.93	.12	5
1971	1.00	1.02	.98	.11	5
1972	1.00	1.00	1.00	.11	5
1973	1.00	1.02	.98	.11	5
1974	.87	1.28	.68	.11	5
1975	1.15	1.19	.97	.11	5
1976	1.05	1.07	.98	.12	5
1977	.96	1.14	.85	.12	8
1978	1.05	1.18	.89	.12	8
1979	1.64	1.27	1.29	.12	8
1980	2.01	1.33	1.51	.12	8
1981	1.68	1.34	1.26	.15	8
1982	2.21	1.28	1.72	.18	8
1983	1.89	1.41	1.34	.18	8

## I. Electric Furnaces

Year	Sears	PPI	Sears/PPI	Weight	Models
1972	1.00	1.00	1.00	.06	5
1973	1.00	1.01	.99	.06	5
1974	1.00	1.09	.91	.06	5
1975	1.22	1.21	1.01	.06	5
1976	1.22	1.25	.98	.06	5
1977	1.22	1.30	.94	.06	5
1978	1.26	1.41	.90	.05	6
1979	1.35	1.48	.91	.05	6
1980	1.47	1.62	.91	.04	6
1981	1.54	1.81	.85	.02	6
1982	1.54	1.75	.88	.00	5



Table B.3 (continued)

## J. Electric Hot Water Heaters

Year	Sears	PPI	Sears/PPI	Weight	Models
1968	.84	.91	.92	.06	8
1969	.89	.92	.97	.06	9
1970	.96	.95	1.01	.06	9
1971	.98	.97	1.02	.06	8
1972	1.00	1.00	1.00	.06	9
1973	1.09	1.01	1.08	.06	6
1974	1.08	1.05	1.03	.06	7
1975	1.38	1.20	1.14	.06	5
1976	1.48	1.39	1.07	.06	8
1977	1.55	1.40	1.11	.06	7
1978	1.57	1.43	1.10	.05	8
1979	1.73	1.51	1.15	.05	16
1980	1.90	1.67	1.14	.04	20
1981	1.95	1.74	1.12	.05	15
1982	2.15	1.86	1.16	.05	18
1983	2.18	1.94	1.13	.05	16

## K. Prefabricated Metal Buildings

Year	Sears	PPI	Sears/PPI	Weight	Models
1961	.84	.83	1.01	.04	3
1962	.78	.83	.94	.04	1
1963	.73	.83	.88	.04	2
1964	.63	.84	.75	.03	9
1965	.63	.84	.75	.03	8
1966	.63	.85	.74	.02	7
1967	.75	.85	.89	.02	2
1968	.75	.85	.88	.02	11
1969	.79	.89	.89	.02	12
1970	.82	.93	.88	.02	11
1971	.94	.96	.98	.02	9
1972	1.00	1.00	1.00	.02	12
1973	.99	1.01	.99	.02	9
1974	1.38	1.29	1.07	.02	7
1975	1.87	1.46	1.28	.02	9
1976	1.93	1.51	1.27	.02	6
1977	1.93	1.63	1.18	.02	7
1978	1.96	1.75	1.12	.02	12
1979	2.22	1.94	1.14	.02	6
1980	2.28	2.05	1.11	.02	8
1981	2.27	2.19	1.04	.03	8
1982	2.51	2.30	1.09	.03	7
1983	2.59	2.24	1.15	.03	7

(continued)

Table B.3 (continued)

## L. Chain Link Fences

Year	Sears	PPI	Sears/PPI	Weight	Models
1955	.75	.75	.99	.04	8
1956	.78	.80	.98	.04	8
1957	.84	.87	.96	.04	8
1958	.86	.91	.94	.04	8
1959	.86	.91	.94	.04	8
1960	.86	.91	.94	.04	8
1961	.80	.91	.88	.04	8
1962	.80	.91	.88	.04	8
1963	.75	.91	.82	.04	8
1964	.75	.85	.89	.03	8
1965	.74	.78	.95	.03	8
1966	.78	.79	.99	.02	8
1967	.86	.79	1.09	.02	8
1968	.88	.79	1.11	.02	8
1969	.88	.84	1.05	.02	8
1970	.92	.90	1.02	.02	8
1971	.92	.96	.96	.02	8
1972	1.00	1.00	1.00	.02	8
1973	1.02	1.12	.90	.02	8
1974	1.21	1.47	.82	.02	8
1975	1.60	1.52	1.05	.02	8
1976	1.34	1.56	.86	.02	8
1977	1.57	1.61	.98	.02	10
1978	1.42	1.75	.81	.02	10
1979	1.76	1.95	.90	.02	10
1980	1.80	2.08	.87	.02	10
1981	1.93	2.21	.87	.03	10
1982	2.15	2.35	.92	.03	10
1983	2.16	2.32	.94	.03	8

## M. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	1.04	.52	2.01	1.00	6
1948	1.02	.56	1.80	1.00	24
1949	1.06	.56	1.87	1.00	17
1950	1.01	.57	1.77	1.00	20
1951	1.04	.65	1.60	1.00	23
1952	1.02	.65	1.57	1.00	14
1953	1.02	.67	1.53	1.00	24
1954	1.02	.66	1.56	1.00	23
1955	.94	.69	1.36	1.00	27
1956	.93	.79	1.18	1.00	28
1957	.97	.82	1.18	1.00	35
1958	1.03	.79	1.30	1.00	29
1959	.95	.80	1.19	1.00	32
1960	.95	.80	1.18	1.00	33
1961	.92	.78	1.19	1.00	35
1962	.93	.79	1.19	1.00	34
1963	.87	.79	1.10	1.00	35
1964	.85	.79	1.08	1.00	39

Table B.3M (continued)

Year	Alternative	Official	Alternative/Official	Weight	Models
1965	.80	.79	1.02	1.00	40
1966	.77	.82	.94	1.00	36
1967	.80	.83	.96	1.00	38
1968	.80	.85	.94	1.00	57
1969	.89	.88	1.01	1.00	63
1970	.94	.94	1.00	1.00	71
1971	.97	.98	.99	1.00	68
1972	1.00	1.00	1.00	1.00	71
1973	1.05	1.04	1.00	1.00	64
1974	1.10	1.22	.90	1.00	69
1975	1.38	1.34	1.03	1.00	73
1976	1.43	1.40	1.02	1.00	73
1977	1.44	1.48	.97	1.00	73
1978	1.49	1.55	.96	1.00	90
1979	1.61	1.68	.96	1.00	87
1980	2.09	1.93	1.09	1.00	96
1981	2.16	2.12	1.02	1.00	81
1982	2.37	2.20	1.08	1.00	97
1983	2.41	2.29	1.05	1.00	79

**Table B.4 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 10, Engines and Turbines**

A. Steam Turbine Generators					
Year	Hedonic	PPI	Hedonic/PPI	Weight	Models
1948	3.15	.41	7.72	.34	14
1949	2.92	.41	7.14	.34	6
1950	2.70	.42	6.48	.34	9
1951	2.22	.45	4.94	.34	12
1952	1.84	.48	3.87	.34	5
1953	1.84	.50	3.64	.34	12
1954	1.84	.52	3.53	.34	10
1955	1.43	.54	2.65	.34	4
1956	1.11	.65	1.72	.34	5
1957	1.31	.77	1.70	.34	10
1958	1.55	.81	1.92	.34	7
1959	1.39	.82	1.71	.33	6
1960	1.25	.82	1.53	.33	7
1961	1.19	.73	1.63	.32	2
1962	1.14	.70	1.62	.32	8
1963	1.05	.71	1.48	.31	8
1964	.97	.72	1.34	.31	6
1965	.79	.73	1.08	.30	8
1966	.64	.75	.86	.30	3
1967	.64	.79	.81	.30	7
1968	.64	.81	.79	.30	5
1969	.78	.85	.91	.30	3
1970	.94	.93	1.02	.30	11
1971	.97	.97	1.00	.30	10
1972	1.00	1.00	1.00	.30	5
1973	1.18	1.03	1.15	.30	6
1974	1.40	1.14	1.23	.30	12
1975	1.60	1.43	1.12	.30	6
1976	1.83	1.60	1.14	.30	6
1977	1.78	1.66	1.07	.30	1
1978	1.74	1.80	.97	.30	7
1979	1.39	1.86	.74	.30	7
1980	3.28	2.20	1.49	.30	10
1981	3.41	2.53	1.35	.15	5
1982	3.54	2.60	1.36	.00	6

**B. Gasoline Engines, 11 hp and Over**

Year	Unit Value	PPI	UnitValue/PPI	Weight	Models
1947	.69	.47	1.48	.25	11
1948	.69	.53	1.30	.15	1
1949	.68	.56	1.23	.15	1
1950	.68	.56	1.21	.15	11
1951	.82	.62	1.33	.15	11
1952	.86	.63	1.35	.15	11
1953	.85	.64	1.33	.15	11
1954	.86	.64	1.36	.15	11
1955	.84	.65	1.30	.15	14
1956	.91	.69	1.32	.15	15
1957	.99	.72	1.37	.15	13

Table B.4B (continued)

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1958	.90	.73	1.22	.15	12
1959	.85	.73	1.16	.15	10
1960	.88	.74	1.19	.15	8
1961	.91	.75	1.21	.15	10
1962	.93	.77	1.21	.15	11
1963	.89	.77	1.17	.16	13
1964	.90	.77	1.17	.19	13
1965	.99	.77	1.28	.21	12
1966	.88	.77	1.14	.23	9
1967	.98	.77	1.27	.24	9
1968	1.00	.80	1.24	.23	10
1969	1.01	.86	1.18	.22	11
1970	1.11	.91	1.22	.21	10
1971	1.09	.96	1.13	.20	10
1972	1.00	1.00	1.00	.19	10
1973	.91	1.01	.90	.18	11
1974	1.08	1.18	.91	.17	12
1975	1.19	1.38	.86	.16	10
1976	1.06	1.50	.71	.16	8
1977	1.73	1.60	1.08	.15	5
1978	2.02	1.80	1.12	.15	6
1979	2.20	1.99	1.11	.14	4
1980	2.61	2.26	1.16	.13	7
1981	2.87	2.54	1.13	.16	6
1982	2.91	2.75	1.06	.19	6
1983	3.03	2.85	1.06	.19	6

## C. Outboard Motors

Year	Sears Hedonic	PPI	Hedonic/PPI	Weight	Models
1948	.72	.51	1.40	.23	4
1949	.69	.53	1.29	.23	4
1950	.65	.53	1.23	.23	5
1951	.67	.59	1.14	.23	5
1952	.68	.59	1.15	.23	1
1953	.70	.60	1.18	.23	4
1954	.75	.63	1.19	.23	4
1955	.70	.63	1.11	.23	5
1956	.74	.65	1.14	.23	5
1957	.74	.71	1.05	.23	6
1958	.74	.73	1.02	.23	7
1959	.79	.72	1.10	.22	11
1960	.77	.71	1.08	.21	10
1961	.80	.71	1.12	.21	4
1962	.82	.73	1.14	.20	8
1963	.80	.73	1.10	.20	8
1964	.81	.75	1.09	.19	7
1965	.87	.77	1.13	.19	6
1966	.89	.77	1.16	.18	7
1967	.98	.81	1.21	.18	9
1968	1.01	.84	1.20	.19	10
1969	1.03	.87	1.18	.19	7
1970	1.04	.93	1.11	.19	5

(continued)

Table B.4C (continued)

Year	Sears Hedonic	PPI	Hedonic/PPI	Weight	Models
1971	.98	.99	.99	.20	5
1972	1.00	1.00	1.00	.20	4
1973	1.09	1.01	1.08	.20	7
1974	1.16	1.15	1.02	.21	6
1975	1.23	1.39	.89	.21	5
1976	1.36	1.53	.89	.22	7
1977	1.40	1.57	.89	.22	6
1978	1.45	1.67	.87	.23	7
1979	1.67	1.86	.90	.23	6
1980	1.98	2.13	.93	.24	7
1981	2.10	2.36	.89	.30	15
1982	2.75	2.52	1.09	.35	15
1983	2.63	2.61	1.01	.35	14

## D. Diesel Engines, Except Automotive

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	1.34	.37	3.61	.47	20
1948	1.33	.43	3.10	.28	20
1949	1.31	.47	2.81	.28	20
1950	1.29	.48	2.71	.28	20
1951	1.32	.60	2.22	.28	20
1952	1.42	.58	2.44	.28	20
1953	1.45	.59	2.45	.28	19
1954	1.43	.61	2.35	.28	17
1955	1.36	.62	2.19	.28	18
1956	1.36	.68	2.01	.28	19
1957	1.52	.72	2.10	.28	16
1958	1.32	.74	1.79	.29	16
1959	1.26	.75	1.68	.30	18
1960	1.17	.75	1.56	.31	18
1961	1.11	.76	1.47	.32	17
1962	1.07	.76	1.41	.33	17
1963	1.05	.76	1.38	.33	16
1964	.99	.78	1.27	.31	15
1965	.96	.79	1.21	.30	11
1966	.88	.82	1.08	.29	10
1967	.90	.84	1.06	.28	12
1968	.85	.86	.98	.29	12
1969	.85	.89	.96	.29	36
1970	.89	.93	.96	.30	22
1971	.93	.97	.96	.31	22
1972	1.00	1.00	1.00	.31	28
1973	.98	1.03	.96	.32	24
1974	1.19	1.18	1.01	.33	16
1975	1.39	1.45	.96	.33	11
1976	1.38	1.58	.87	.33	12
1977	1.43	1.69	.85	.33	10
1978	1.58	1.87	.84	.33	10
1979	1.55	2.08	.75	.33	8
1980	1.73	2.34	.74	.33	14
1981	1.89	2.71	.70	.39	12
1982	2.01	2.94	.68	.46	13
1983	2.05	2.99	.69	.46	13

Table B.4 (continued)

## E. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	1.42	.41	3.49	1.00	31
1948	1.41	.45	3.11	1.00	39
1949	1.35	.47	2.87	1.00	31
1950	1.30	.48	2.71	1.00	45
1951	1.27	.54	2.33	1.00	48
1952	1.22	.55	2.21	1.00	37
1953	1.24	.57	2.17	1.00	46
1954	1.25	.59	2.14	1.00	42
1955	1.11	.60	1.86	1.00	41
1956	1.05	.66	1.58	1.00	44
1957	1.16	.74	1.57	1.00	45
1958	1.16	.76	1.53	1.00	42
1959	1.11	.76	1.46	1.00	45
1960	1.05	.76	1.38	1.00	43
1961	1.03	.74	1.39	1.00	33
1962	1.01	.74	1.37	1.00	44
1963	.97	.74	1.31	1.00	45
1964	.93	.76	1.23	1.00	41
1965	.89	.76	1.17	1.00	37
1966	.80	.78	1.03	1.00	29
1967	.84	.80	1.04	1.00	37
1968	.83	.83	1.00	1.00	37
1969	.89	.87	1.03	1.00	57
1970	.98	.93	1.06	1.00	48
1971	.98	.97	1.01	1.00	47
1972	1.00	1.00	1.00	1.00	47
1973	1.05	1.02	1.02	1.00	48
1974	1.22	1.16	1.05	1.00	46
1975	1.37	1.42	.97	1.00	32
1976	1.43	1.56	.92	1.00	33
1977	1.56	1.64	.95	1.00	22
1978	1.65	1.79	.92	1.00	30
1979	1.61	1.95	.82	1.00	25
1980	2.29	2.24	1.02	1.00	38
1981	2.45	2.55	.96	1.00	38
1982	2.74	2.73	1.00	1.00	40
1983	2.75	2.80	.98	1.00	33

**Table B.5 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 11, Metalworking Machinery**

**A. Drill Presses**

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.49	.38	1.29	.14	3
1948	.46	.41	1.11	.14	3
1949	.51	.43	1.18	.14	3
1950	.47	.46	1.02	.14	2
1951	.51	.51	1.00	.14	3
1952	.50	.52	.97	.14	3
1953	.52	.53	.98	.14	2
1954	.55	.54	1.02	.14	2
1955	.60	.56	1.06	.14	2
1956	.60	.62	.97	.14	2
1957	.63	.66	.96	.14	2
1958	.67	.67	1.00	.14	2
1959	.67	.69	.97	.13	2
1960	.65	.71	.92	.13	2
1961	.68	.71	.95	.13	1
1962	.70	.73	.96	.13	1
1963	.69	.73	.95	.13	1
1964	.66	.74	.89	.14	1
1965	.66	.76	.86	.14	1
1966	.67	.80	.83	.15	1
1967	.75	.83	.90	.15	1
1968	.75	.87	.86	.15	1
1969	.77	.90	.86	.15	1
1970	.87	.95	.92	.15	2
1971	.94	.98	.97	.14	3
1972	1.00	1.00	1.00	.14	2
1973	1.03	1.06	.97	.14	2
1974	1.10	1.26	.87	.14	1
1975	1.56	1.49	1.04	.14	2
1976	1.56	1.68	.93	.13	2
1977	1.72	1.81	.95	.13	1
1978	1.78	1.95	.91	.13	1
1979	1.85	2.14	.86	.13	1
1980	1.83	2.35	.78	.12	1
1981	2.17	2.61	.83	.12	3
1982	2.26	2.61	.87	.12	3
1983	2.39	2.69	.89	.12	3

**B. Metal Lathes**

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.32	.38	.83	.14	1
1948	.37	.41	.90	.14	1
1949	.37	.43	.86	.14	1
1950	.31	.46	.68	.14	4
1951	.40	.51	.78	.14	4
1952	.39	.52	.76	.14	4
1953	.40	.53	.75	.14	4
1954	.46	.54	.85	.14	4
1955	.50	.56	.89	.14	4
1956	.51	.62	.83	.14	4



Table B.5B (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1957	.59	.66	.89	.14	4
1958	.61	.67	.90	.14	4
1959	.57	.69	.83	.13	4
1960	.69	.71	.97	.13	2
1961	.69	.71	.97	.13	3
1962	.70	.73	.97	.13	3
1963	.77	.73	1.06	.13	3
1964	.77	.74	1.03	.14	3
1965	.77	.76	1.01	.14	3
1966	.77	.80	.97	.15	3
1967	.81	.83	.98	.15	3
1968	.82	.87	.94	.15	3
1969	.86	.90	.96	.15	3
1970	.89	.95	.94	.15	3
1971	.98	.98	1.00	.14	3
1972	1.00	1.00	1.00	.14	3
1973	1.04	1.08	.96	.14	2
1974	1.07	1.32	.81	.14	1
1975	1.34	1.51	.89	.14	1
1976	1.64	1.62	1.01	.13	1
1977	1.80	1.73	1.04	.13	3
1978	1.92	1.93	1.00	.13	2
1979	1.95	2.19	.89	.13	3
1980	2.19	2.57	.85	.12	2
1981	1.75	2.78	.63	.12	3
1982	1.89	2.88	.66	.12	1
1983	2.25	2.89	.78	.12	1

## C. Free-Standing Power Saws

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.85	.38	2.23	.14	2
1948	.71	.41	1.72	.14	2
1949	.74	.43	1.71	.14	2
1950	.67	.46	1.45	.14	2
1951	.73	.51	1.42	.14	3
1952	.74	.52	1.42	.14	5
1953	.76	.53	1.44	.14	4
1954	.79	.54	1.47	.14	4
1955	.84	.56	1.48	.14	6
1956	.85	.62	1.38	.14	7
1957	.88	.66	1.34	.14	7
1958	.89	.67	1.33	.14	5
1959	.83	.69	1.20	.13	6
1960	.89	.71	1.25	.13	6
1961	.88	.71	1.23	.13	6
1962	.91	.73	1.25	.13	6
1963	.90	.73	1.24	.13	5
1964	.84	.74	1.13	.14	7
1965	.82	.76	1.08	.14	6
1966	.82	.80	1.02	.15	5
1967	.86	.83	1.03	.15	5
1968	.91	.87	1.05	.15	7
1969	.94	.90	1.05	.15	7

(continued)

Table B.5C (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1970	.94	.95	.99	.15	4
1971	.96	.98	.98	.14	5
1972	1.00	1.00	1.00	.14	6
1973	1.01	1.04	.97	.14	6
1974	1.01	1.22	.83	.14	4
1975	1.11	1.43	.78	.14	4
1976	1.64	1.51	1.09	.13	2
1977	1.84	1.65	1.11	.13	1
1978	1.90	1.81	1.05	.13	1
1979	2.03	2.01	1.01	.13	1
1980	2.15	2.28	.94	.12	1
1981	2.47	2.51	.99	.12	2
1982	2.53	2.67	.95	.12	3
1983	2.61	2.72	.96	.12	1

## D. Quarter-Inch Hand Power Drills

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.81	.78	1.04	.01	1
1948	.81	.81	1.00	.01	1
1949	.85	.81	1.05	.01	2
1950	.82	.83	.99	.01	2
1951	.91	.91	1.01	.01	2
1952	.87	.91	.96	.01	2
1953	.89	.94	.94	.01	2
1954	.96	.99	.97	.01	2
1955	.96	1.03	.93	.01	2
1956	1.01	1.03	.97	.01	2
1957	1.07	1.08	.99	.01	2
1958	1.07	1.02	1.05	.01	2
1959	.79	1.03	.76	.02	2
1960	.91	1.03	.89	.02	2
1961	.91	1.04	.88	.03	2
1962	.91	1.06	.86	.03	2
1963	.90	1.04	.86	.03	2
1964	.85	1.00	.85	.03	2
1965	.85	.95	.90	.03	2
1966	.81	.95	.85	.03	2
1967	.87	.95	.92	.03	2
1968	.92	.98	.94	.03	2
1969	.96	.98	.98	.03	4
1970	.90	1.08	.83	.03	2
1971	.91	1.09	.84	.03	2
1972	1.00	1.00	1.00	.03	2
1973	.89	.99	.89	.03	2
1974	.89	1.12	.79	.03	1
1975	.95	1.29	.73	.03	1
1976	.95	1.39	.68	.03	1
1977	1.01	1.50	.67	.03	1
1978	.88	1.63	.54	.02	2
1979	.98	1.69	.58	.02	2
1980	.96	1.86	.51	.02	4
1981	1.15	2.19	.52	.02	4
1982	1.15	2.22	.52	.02	3
1983	1.10	2.21	.50	.02	2

Table B.5 (continued)

## E. Half-Inch Hand Power Drills

Year	Sears	PPI	Sears/PPI	Weight	Models
1949	.87	.58	1.49	.01	2
1950	.84	.59	1.43	.01	1
1951	.99	.62	1.60	.01	1
1952	.99	.61	1.63	.01	2
1953	.97	.61	1.58	.01	2
1954	.99	.62	1.58	.01	2
1955	.99	.65	1.52	.01	2
1956	1.04	.67	1.55	.01	3
1957	1.05	.70	1.50	.01	3
1958	.99	.70	1.43	.01	3
1959	.93	.71	1.30	.02	2
1960	.96	.72	1.34	.02	2
1961	.90	.74	1.21	.03	2
1962	.96	.76	1.26	.03	1
1963	.94	.77	1.22	.03	3
1964	.95	.77	1.24	.03	3
1965	.93	.77	1.21	.03	3
1966	.93	.78	1.18	.02	3
1967	.88	.79	1.10	.02	2
1968	.89	.81	1.10	.03	4
1969	.92	.83	1.11	.03	4
1970	.94	.92	1.02	.03	3
1971	.95	.97	.98	.03	3
1972	1.00	1.00	1.00	.03	4
1973	.98	1.02	.97	.03	4
1974	.99	1.13	.88	.03	1
1975	1.18	1.27	.93	.03	2
1976	1.18	1.43	.83	.03	2
1977	1.18	1.61	.73	.03	1
1978	1.36	1.68	.81	.02	1
1979	1.36	1.77	.77	.02	2
1980	1.33	2.02	.66	.02	1
1981	1.41	2.09	.68	.01	2
1982	1.51	2.14	.70	.00	0

## F. Hand Power Saws

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	1.57	1.11	1.41	.01	1
1948	1.61	1.11	1.45	.01	1
1949	1.65	1.10	1.50	.01	1
1950	1.53	1.06	1.45	.01	1
1951	1.55	1.07	1.45	.01	1
1952	1.42	1.07	1.33	.01	3
1953	1.44	1.10	1.32	.01	3
1954	1.38	1.11	1.25	.01	3
1955	1.15	1.15	1.00	.01	1
1956	1.22	1.18	1.03	.01	2
1957	1.24	1.23	1.01	.01	2
1958	1.24	1.23	1.01	.01	3
1959	1.16	1.19	.97	.02	2

(continued)

Table B.5F (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1960	1.16	1.18	.98	.02	4
1961	1.15	1.22	.94	.03	4
1962	1.15	1.26	.91	.03	5
1963	.93	1.19	.79	.03	3
1964	.88	1.17	.75	.03	2
1965	.88	1.08	.81	.03	4
1966	.87	1.08	.81	.02	4
1967	.88	1.10	.80	.02	4
1968	.89	1.14	.79	.03	4
1969	.95	1.14	.84	.03	4
1970	.95	1.10	.87	.03	4
1971	.96	1.01	.95	.03	4
1972	1.00	1.00	1.00	.03	5
1973	1.00	.97	1.03	.03	4
1974	1.07	1.06	1.02	.03	5
1975	1.32	1.17	1.13	.03	6
1976	1.22	1.20	1.02	.03	3
1977	1.22	1.34	.91	.03	3
1978	1.42	1.42	1.00	.02	2
1979	1.58	1.54	1.03	.02	3
1980	1.97	1.67	1.18	.02	1
1981	2.09	1.80	1.16	.02	2
1982	2.09	1.81	1.15	.02	2
1983	2.25	1.81	1.24	.02	1

## G. Hand Electric Sanders

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.79	.81	.98	.01	1
1948	.94	.81	1.16	.01	1
1949	1.02	.81	1.25	.01	1
1950	.96	.84	1.15	.01	1
1951	1.02	.91	1.11	.01	1
1952	1.00	.91	1.09	.01	2
1953	1.03	.93	1.11	.01	2
1954	1.04	.96	1.09	.01	2
1955	1.04	1.00	1.05	.01	3
1956	1.08	1.04	1.04	.01	3
1957	1.10	1.04	1.06	.01	3
1958	1.10	1.05	1.05	.01	3
1959	1.04	1.09	.95	.02	3
1960	1.07	1.08	.99	.02	4
1961	1.07	1.02	1.04	.03	4
1962	1.06	1.13	.94	.03	3
1963	.92	1.13	.82	.03	3
1964	.84	1.13	.75	.03	3
1965	.93	1.10	.85	.03	4
1966	.96	1.07	.90	.02	4
1967	.96	1.13	.85	.02	3
1968	.99	1.16	.85	.03	4
1969	1.00	1.14	.88	.03	4
1970	1.00	1.05	.96	.03	3
1971	1.00	1.01	.99	.03	3
1972	1.00	1.00	1.00	.03	6

Table B.5G (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1973	.99	1.00	.99	.03	5
1974	.95	1.04	.91	.03	6
1975	1.03	1.16	.88	.03	6
1976	.79	1.19	.67	.03	4
1977	.76	1.24	.61	.03	4
1978	.89	1.36	.65	.02	4
1979	.95	1.43	.67	.02	4
1980	.95	1.54	.62	.02	5
1981	1.10	1.64	.67	.02	2
1982	1.10	1.77	.62	.02	3
1983	1.10	1.81	.61	.02	1

## H. Transformer Arc Welders

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.75	1.19	.63	.01	2
1948	.72	1.19	.60	.01	2
1949	.76	1.16	.66	.01	2
1950	.74	1.10	.68	.01	3
1951	.87	1.08	.80	.01	4
1952	.87	1.07	.81	.01	1
1953	.91	1.07	.85	.01	1
1954	.98	1.07	.91	.01	4
1955	1.16	1.07	1.09	.01	1
1956	1.16	1.12	1.04	.01	3
1957	1.21	1.21	1.00	.01	5
1958	1.20	1.25	.96	.01	5
1959	1.20	1.16	1.03	.02	5
1960	1.18	1.12	1.05	.02	5
1961	1.19	1.02	1.17	.03	6
1962	1.11	.97	1.14	.03	4
1963	1.10	.95	1.16	.03	5
1964	.99	.92	1.07	.03	5
1965	.91	.87	1.04	.03	5
1966	.91	.88	1.03	.02	4
1967	.95	.89	1.07	.02	4
1968	.94	.89	1.07	.03	5
1969	.98	.90	1.08	.03	5
1970	.94	.96	.98	.03	4
1971	.97	.97	1.00	.03	3
1972	1.00	1.00	1.00	.03	3
1973	.99	1.00	.99	.03	4
1974	1.01	1.14	.89	.03	4
1975	1.21	1.25	.97	.03	2
1976	1.41	1.30	1.08	.03	4
1977	1.36	1.46	.94	.03	1
1978	1.36	1.59	.86	.02	4
1979	1.32	1.72	.77	.02	3
1980	1.23	1.89	.65	.02	3
1981	1.22	2.10	.58	.02	3
1982	1.37	2.26	.61	.02	2
1983	1.48	2.31	.64	.02	2

(continued)

Table B.5 (continued)

## I. Acetylene Welding Torches

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.64	.47	1.37	.01	1
1948	.60	.49	1.22	.01	1
1949	.59	.51	1.15	.01	1
1950	.55	.53	1.04	.01	1
1951	.59	.56	1.06	.01	1
1952	.60	.56	1.06	.01	1
1953	.60	.58	1.03	.01	1
1954	.61	.59	1.04	.01	1
1955	.57	.60	.94	.01	1
1956	.57	.66	.87	.01	1
1957	.57	.67	.85	.01	1
1958	.57	.66	.87	.01	1
1959	.57	.69	.82	.01	1
1960	.61	.71	.86	.01	1
1961	.65	.72	.90	.01	1
1962	.69	.72	.96	.01	1
1963	.69	.73	.95	.01	1
1964	.69	.75	.93	.01	1
1965	.71	.75	.95	.01	1
1966	.72	.78	.93	.01	1
1967	.73	.81	.90	.01	1
1968	.79	.85	.94	.01	1
1969	.80	.86	.93	.01	1
1970	.98	.95	1.03	.01	1
1971	1.00	.96	1.04	.01	1
1972	1.00	1.00	1.00	.01	1
1973	1.00	1.02	.98	.01	2
1974	1.00	1.11	.90	.01	1
1975	1.03	1.14	.91	.01	1
1976	1.20	1.12	1.07	.01	2
1977	1.19	1.31	.91	.01	1
1978	1.19	1.36	.88	.01	1
1979	1.19	1.45	.82	.01	2
1980	1.21	1.60	.76	.01	2
1981	1.33	1.75	.76	.01	3
1982	1.47	1.86	.79	.01	1
1983	1.60	1.92	.83	.01	1

## J. Acetylene Cutting Tools

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.63	.53	1.18	.01	1
1948	.63	.57	1.10	.01	1
1949	.58	.58	.99	.01	1
1950	.52	.58	.90	.01	1
1951	.57	.60	.95	.01	1
1952	.57	.60	.95	.01	1
1953	.57	.62	.93	.01	1
1954	.61	.64	.95	.01	1
1955	.57	.67	.85	.01	1
1956	.57	.71	.80	.01	1
1957	.66	.74	.90	.01	1

Table B.5J (continued)

Year	Sears	PP1	Sears/PP1	Weight	Models
1958	.66	.71	.93	.01	1
1959	.66	.72	.92	.01	1
1960	.66	.73	.91	.01	1
1961	.66	.73	.91	.01	1
1962	.71	.74	.96	.01	1
1963	.72	.75	.97	.01	1
1964	.73	.78	.94	.01	1
1965	.76	.79	.96	.01	1
1966	.78	.82	.96	.01	1
1967	.78	.84	.92	.01	1
1968	.84	.87	.97	.01	1
1969	.86	.87	.99	.01	1
1970	.98	.94	1.03	.01	1
1971	1.00	.98	1.02	.01	1
1972	1.00	1.00	1.00	.01	1
1973	1.00	1.02	.98	.01	2
1974	1.00	1.13	.88	.01	1
1975	1.03	1.15	.89	.01	1
1976	1.03	1.19	.86	.01	2
1977	1.10	1.29	.85	.01	1
1978	1.10	1.37	.80	.01	1
1979	1.10	1.47	.74	.01	2
1980	1.13	1.67	.68	.01	2
1981	1.25	1.89	.66	.01	2
1982	1.31	2.01	.65	.01	1
1983	1.39	2.02	.68	.01	1

## K. Acetylene Single-Stage Welding Outfits

Year	Sears	PP1	Sears/PP1	Weight	Models
1947	.60	.36	1.67	.01	1
1948	.60	.38	1.59	.01	1
1949	.56	.59	.94	.01	1
1950	.54	.61	.89	.01	1
1951	.60	.63	.96	.01	1
1952	.59	.63	.94	.01	1
1953	.59	.66	.89	.01	1
1954	.62	.68	.92	.01	1
1955	.65	.68	.96	.01	1
1956	.65	.70	.94	.01	1
1957	.75	.70	1.07	.01	1
1958	.79	.75	1.05	.01	1
1959	.79	.77	1.02	.01	1
1960	.79	.80	.99	.01	1
1961	.83	.80	1.04	.01	1
1962	.86	.84	1.02	.01	1
1963	.86	.85	1.01	.01	1
1964	.86	.86	1.01	.01	1
1965	.90	.87	1.04	.01	1
1966	.88	.89	.99	.01	1
1967	.91	.90	1.01	.01	1
1968	.99	.92	1.07	.01	1
1969	1.01	.93	1.08	.01	1

(continued)

Table B.5K (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1970	1.01	.95	1.07	.01	1
1971	.94	.99	.96	.01	1
1972	1.00	1.00	1.00	.01	1
1973	1.00	1.00	1.00	.01	1
1974	1.05	1.07	.98	.01	1
1975	1.07	1.12	.96	.01	1
1976	1.09	1.19	.92	.01	2
1977	1.09	1.36	.80	.01	1
1978	1.13	1.47	.77	.01	1
1979	1.16	1.57	.74	.01	2
1980	1.21	1.76	.69	.01	2
1981	1.31	1.94	.68	.01	2
1982	1.44	1.95	.74	.01	1
1983	1.58	1.96	.80	.01	1

## L. Drill Bits

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.62	.62	1.01	.19	3
1948	.62	.64	.98	.19	3
1949	.64	.68	.95	.19	3
1950	.65	.73	.90	.19	3
1951	.73	.80	.91	.19	2
1952	.65	.77	.85	.19	3
1953	.65	.76	.85	.19	3
1954	.72	.76	.95	.19	3
1955	.66	.85	.77	.19	3
1956	.73	.93	.79	.19	2
1957	.73	.99	.74	.19	3
1958	.72	.95	.76	.19	3
1959	.70	1.04	.68	.18	3
1960	.70	1.17	.60	.17	3
1961	.69	1.16	.60	.17	3
1962	.71	1.17	.61	.16	3
1963	.69	1.17	.60	.15	3
1964	.69	1.18	.59	.14	3
1965	.69	1.21	.58	.13	3
1966	.73	1.25	.58	.13	3
1967	.73	1.25	.58	.12	3
1968	.74	1.39	.53	.12	3
1969	.86	1.42	.61	.12	3
1970	.93	1.27	.74	.12	3
1971	.95	1.00	.95	.12	3
1972	1.00	1.00	1.00	.13	3
1973	1.00	1.03	.97	.13	3
1974	1.06	1.12	.95	.13	3
1975	1.40	1.30	1.07	.13	3
1976	1.55	1.35	1.15	.15	7
1977	1.66	1.46	1.14	.16	3
1978	1.69	1.56	1.08	.17	8
1979	1.72	1.67	1.03	.18	3
1980	1.72	1.89	.91	.19	2
1981	2.04	2.11	.97	.20	2
1982	2.41	2.14	1.12	.20	4
1983	2.41	2.10	1.15	.20	2



Table B.5 (continued)

## M. Power Saw Blades

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.80	.43	1.85	.19	2
1948	.79	.45	1.76	.19	2
1949	.79	.47	1.65	.19	2
1950	.55	.49	1.13	.19	2
1951	.63	.50	1.26	.19	2
1952	.59	.50	1.19	.19	2
1953	.56	.53	1.05	.19	2
1954	.56	.55	1.01	.19	2
1955	.56	.62	.90	.19	1
1956	.63	.71	.89	.19	2
1957	.66	.80	.83	.19	2
1958	.65	.80	.81	.19	2
1959	.67	.87	.77	.18	2
1960	.67	.88	.76	.17	2
1961	.67	.88	.75	.17	2
1962	.64	.90	.71	.16	2
1963	.64	.90	.71	.15	2
1964	.70	.90	.78	.14	2
1965	.70	.90	.78	.13	2
1966	.69	.89	.78	.13	2
1967	.71	.93	.76	.12	2
1968	.74	.94	.79	.12	2
1969	.93	.94	.99	.12	2
1970	.98	.96	1.02	.12	2
1971	.98	.96	1.02	.12	2
1972	1.00	1.00	1.00	.13	2
1973	1.02	1.04	.98	.13	2
1974	1.11	1.12	1.00	.13	2
1975	1.30	1.25	1.04	.13	4
1976	1.21	1.28	.95	.15	2
1977	1.23	1.27	.97	.16	2
1978	1.23	1.40	.88	.17	2
1979	1.31	1.73	.75	.18	2
1980	1.31	1.97	.66	.19	1
1981	1.76	2.22	.79	.20	8
1982	1.76	2.34	.75	.20	8
1983	1.76	2.36	.74	.20	4

## N. Micrometer Calipers

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.45	.50	.90	.14	2
1948	.49	.56	.88	.14	2
1949	.53	.56	.95	.14	2
1950	.53	.58	.91	.14	2
1951	.56	.62	.91	.14	2
1952	.55	.62	.88	.14	2
1953	.55	.64	.85	.14	2
1954	.59	.62	.95	.14	2
1955	.62	.65	.95	.14	2
1956	.62	.69	.90	.14	2

(continued)

Table B.5N (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1957	.66	.74	.89	.14	2
1958	.67	.76	.88	.14	2
1959	.69	.80	.87	.13	2
1960	.70	.81	.86	.13	2
1961	.70	.83	.84	.13	2
1962	.84	.87	.97	.13	2
1963	.84	.87	.97	.13	4
1964	.84	.92	.91	.14	3
1965	.94	.95	.98	.14	3
1966	.92	.96	.96	.15	2
1967	1.05	.97	1.09	.15	2
1968	.99	.97	1.03	.15	2
1969	.85	.97	.87	.15	2
1970	.91	.98	.93	.15	2
1971	1.00	.98	1.02	.14	2
1972	1.00	1.00	1.00	.14	2
1973	1.05	1.02	1.03	.14	2
1974	1.07	1.09	.98	.14	2
1975	1.11	1.30	.86	.14	2
1976	1.26	1.38	.91	.13	3
1977	1.36	1.43	.95	.13	3
1978	1.58	1.54	1.03	.13	5
1979	1.69	1.67	1.01	.13	5
1980	1.75	1.81	.97	.12	4
1981	2.08	1.95	1.07	.12	4
1982	2.47	2.08	1.18	.12	7
1983	2.47	2.12	1.17	.12	3

## O. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	.62	.46	1.34	1.00	21
1948	.61	.49	1.26	1.00	21
1949	.64	.51	1.24	1.00	24
1950	.56	.54	1.05	1.00	26
1951	.64	.58	1.09	1.00	28
1952	.61	.58	1.05	1.00	32
1953	.61	.60	1.03	1.00	30
1954	.65	.60	1.08	1.00	33
1955	.66	.65	1.03	1.00	30
1956	.70	.71	.99	1.00	35
1957	.74	.76	.97	1.00	38
1958	.75	.77	.97	1.00	37
1959	.73	.80	.91	1.00	36
1960	.76	.84	.91	1.00	37
1961	.76	.84	.90	1.00	38
1962	.78	.86	.92	1.00	35
1963	.78	.85	.91	1.00	37
1964	.77	.87	.89	1.00	37
1965	.78	.88	.89	1.00	39
1966	.78	.90	.87	1.00	36
1967	.83	.93	.90	1.00	34
1968	.84	.96	.88	1.00	40

Table B.50 (continued)

Year	Alternative	Official	Alternative/Official	Weight	Models
1969	.88	.98	.90	1.00	42
1970	.92	1.00	.92	1.00	35
1971	.97	.98	.99	1.00	36
1972	1.00	1.00	1.00	1.00	41
1973	1.02	1.04	.98	1.00	41
1974	1.06	1.17	.90	1.00	33
1975	1.26	1.35	.93	1.00	36
1976	1.39	1.43	.97	1.00	37
1977	1.48	1.52	.97	1.00	26
1978	1.55	1.65	.94	1.00	35
1979	1.61	1.84	.88	1.00	35
1980	1.66	2.07	.80	1.00	31
1981	1.90	2.29	.83	1.00	42
1982	2.05	2.38	.86	1.00	39
1983	2.13	2.39	.89	1.00	23

**Table B.6 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 13, General Industrial Equipment**

**A. Stationary Air Compressors**

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.81	.25	3.29	.26	3
1948	.84	.27	3.08	.20	3
1949	.73	.29	2.53	.20	6
1950	.68	.30	2.29	.20	5
1951	.82	.34	2.41	.20	6
1952	.70	.34	2.05	.20	6
1953	.81	.36	2.28	.20	7
1954	.82	.37	2.24	.20	7
1955	.87	.40	2.16	.20	6
1956	.87	.46	1.89	.20	3
1957	.93	.49	1.91	.20	6
1958	.97	.53	1.85	.19	6
1959	1.05	.57	1.83	.19	6
1960	1.05	.58	1.82	.18	3
1961	1.05	.58	1.83	.18	6
1962	.98	.58	1.70	.17	3
1963	.78	.58	1.33	.16	3
1964	.78	.62	1.27	.15	7
1965	.81	.69	1.19	.13	3
1966	.88	.76	1.17	.11	10
1967	.88	.79	1.11	.11	7
1968	.87	.83	1.05	.11	8
1969	.89	.89	.99	.11	10
1970	.95	.93	1.02	.11	8
1971	1.00	.97	1.03	.11	8
1972	1.00	1.00	1.00	.12	8
1973	1.00	1.04	.97	.12	8
1974	1.02	1.21	.84	.12	11
1975	1.14	1.48	.77	.12	3
1976	1.16	1.52	.77	.13	4
1977	1.21	1.68	.72	.13	3
1978	1.28	1.92	.67	.13	3
1979	1.37	2.13	.64	.13	3
1980	1.41	2.36	.60	.14	3
1981	1.78	2.46	.72	.14	3
1982	1.95	2.53	.77	.14	6
1983	2.11	2.51	.84	.14	3

**B. Centrifugal Pumps**

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.98	.41	2.40	.26	2
1948	.89	.45	1.98	.20	2
1949	.88	.49	1.77	.20	1
1950	.82	.52	1.59	.20	2
1951	.88	.60	1.47	.20	2
1952	.89	.60	1.50	.20	2
1953	.89	.61	1.46	.20	2
1954	.94	.61	1.54	.20	2
1955	.94	.62	1.52	.20	6

Table B.6B (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1956	.86	.70	1.22	.20	8
1957	.87	.76	1.14	.20	8
1958	.84	.79	1.06	.19	10
1959	.82	.82	.99	.19	12
1960	.78	.80	.98	.18	12
1961	.78	.79	.99	.18	11
1962	.79	.79	1.00	.17	13
1963	.79	.76	1.04	.16	13
1964	.78	.76	1.03	.15	12
1965	.77	.77	1.01	.13	7
1966	.77	.79	.97	.11	8
1967	.80	.81	.98	.11	8
1968	.80	.82	.97	.11	3
1969	.85	.84	1.01	.11	8
1970	.95	.91	1.05	.11	7
1971	1.00	.97	1.03	.11	5
1972	1.00	1.00	1.00	.12	5
1973	1.00	1.01	.99	.12	5
1974	1.04	1.23	.85	.12	5
1975	1.25	1.42	.88	.12	9
1976	1.35	1.51	.89	.13	9
1977	1.35	1.63	.83	.13	6
1978	1.45	1.77	.82	.13	6
1979	1.65	1.93	.85	.13	6
1980	1.79	2.13	.84	.14	6
1981	1.96	2.30	.85	.14	6
1982	1.96	2.32	.85	.14	7
1983	2.05	2.31	.89	.14	4

## C. Differential Chain Hoists

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.47	.42	1.12	.34	2
1949	.50	.44	1.13	.34	2
1950	.46	.46	1.00	.34	2
1951	.54	.52	1.03	.34	2
1952	.52	.52	.99	.34	2
1953	.54	.55	.99	.34	2
1954	.55	.56	.99	.34	2
1955	.56	.58	.97	.34	2
1956	.56	.62	.91	.34	2
1957	.63	.68	.92	.34	2
1958	.69	.71	.97	.34	2
1959	.75	.75	.99	.35	2
1960	.77	.76	1.02	.36	2
1961	.77	.76	1.02	.36	2
1962	.79	.76	1.05	.37	2
1963	.76	.76	1.01	.39	2
1964	.76	.76	1.01	.40	2
1965	.76	.76	1.01	.42	2
1966	.76	.78	.97	.44	2
1967	.85	.80	1.06	.45	2
1968	.89	.82	1.08	.44	2
1969	.95	.83	1.15	.43	2

(continued)

Table B.6C (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1970	1.00	.89	1.12	.42	2
1971	1.00	.97	1.03	.42	2
1972	1.00	1.00	1.00	.41	2
1973	1.00	1.05	.95	.40	2
1974	1.03	1.18	.88	.39	2
1975	1.29	1.37	.94	.40	2
1976	1.34	1.40	.96	.40	2
1977	1.34	1.50	.89	.41	2
1978	1.56	1.57	1.00	.42	3
1979	1.59	1.67	.96	.42	3
1980	1.69	1.86	.91	.43	3
1981	1.69	2.10	.81	.44	3
1982	1.91	2.22	.86	.44	3
1983	2.10	2.23	.94	.44	3

## D. Propellor Fans

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.76	.38	1.99	.07	2
1949	.76	.43	1.75	.07	2
1950	.70	.45	1.54	.07	2
1951	.81	.53	1.52	.07	2
1952	.86	.53	1.63	.07	2
1953	.86	.54	1.59	.07	1
1954	.90	.56	1.60	.07	1
1955	.88	.58	1.52	.07	2
1956	.96	.64	1.50	.07	2
1957	.96	.65	1.46	.07	1
1958	.96	.65	1.48	.06	1
1959	.89	.65	1.37	.06	1
1960	.87	.64	1.35	.06	1
1961	.87	.63	1.37	.06	1
1962	.84	.65	1.30	.06	1
1963	.84	.65	1.29	.06	1
1964	.77	.65	1.18	.06	1
1965	.77	.68	1.14	.07	1
1966	.77	.71	1.08	.08	1
1967	.84	.76	1.11	.08	1
1968	.84	.79	1.07	.09	1
1969	.91	.83	1.10	.10	1
1970	.93	.89	1.04	.11	1
1971	1.00	.95	1.06	.11	1
1972	1.00	1.00	1.00	.12	1
1973	1.00	1.08	.93	.13	1
1974	1.07	1.32	.81	.14	1
1975	1.38	1.56	.89	.13	6
1976	1.36	1.66	.82	.12	6
1977	1.48	1.82	.81	.10	4
1978	1.51	1.95	.77	.09	4
1979	1.74	2.13	.82	.07	4
1980	1.88	2.38	.79	.05	2
1981	2.06	2.62	.79	.05	4
1982	2.15	2.77	.78	.05	4
1983	2.15	2.81	.76	.05	2

Table B.6 (continued)

## E. Fire Extinguishers

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.86	.78	1.09	.27	7
1948	1.00	.82	1.23	.20	7
1949	1.10	.81	1.37	.20	5
1950	.90	.83	1.09	.20	5
1951	.88	.85	1.04	.20	11
1952	.89	.85	1.05	.20	11
1953	.88	.83	1.05	.20	15
1954	.88	.84	1.04	.20	13
1955	.98	.89	1.10	.20	11
1956	1.07	.97	1.11	.20	9
1957	1.06	1.03	1.04	.20	11
1958	1.06	1.00	1.06	.21	15
1959	1.01	.92	1.11	.21	15
1960	1.00	.89	1.12	.22	14
1961	1.01	.90	1.11	.22	11
1962	.98	.88	1.11	.23	12
1963	.99	.89	1.11	.23	10
1964	.97	.90	1.08	.24	11
1965	.97	.89	1.09	.25	11
1966	.97	.89	1.09	.25	4
1967	.97	.91	1.07	.26	4
1968	.98	.90	1.09	.25	5
1969	.98	.89	1.11	.25	6
1970	.98	.90	1.09	.24	6
1971	.99	.97	1.02	.24	7
1972	1.00	1.00	1.00	.24	7
1973	1.14	1.00	1.14	.23	6
1974	1.16	1.12	1.04	.23	8
1975	1.19	1.36	.87	.23	11
1976	1.46	1.38	1.06	.23	9
1977	1.15	1.41	.81	.23	4
1978	1.15	1.46	.79	.23	6
1979	1.11	1.56	.71	.24	6
1980	1.19	1.75	.68	.24	5
1981	1.42	1.99	.71	.24	5
1982	1.67	2.17	.77	.24	5
1983	1.67	2.09	.80	.24	5

## F. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	.70	.42	1.68	1.00	12
1948	.71	.45	1.58	1.00	16
1949	.72	.48	1.51	1.00	16
1950	.65	.50	1.32	1.00	16
1951	.73	.56	1.31	1.00	23
1952	.70	.55	1.27	1.00	23
1953	.73	.57	1.29	1.00	27
1954	.75	.58	1.29	1.00	25
1955	.78	.61	1.28	1.00	27
1956	.78	.67	1.17	1.00	24

(continued)

Table B.6F (continued)

Year	Alternative	Official	Alternative/Official	Weight	Models
1957	.83	.72	1.14	1.00	28
1958	.85	.74	1.15	1.00	34
1959	.87	.76	1.14	1.00	36
1960	.87	.76	1.15	1.00	32
1961	.87	.76	1.15	1.00	31
1962	.86	.75	1.15	1.00	31
1963	.82	.75	1.09	1.00	29
1964	.81	.76	1.07	1.00	33
1965	.81	.77	1.06	1.00	24
1966	.82	.80	1.03	1.00	25
1967	.87	.82	1.06	1.00	22
1968	.89	.84	1.07	1.00	19
1969	.93	.85	1.10	1.00	27
1970	.98	.90	1.08	1.00	24
1971	1.00	.97	1.03	1.00	23
1972	1.00	1.00	1.00	1.00	23
1973	1.03	1.04	.99	1.00	22
1974	1.06	1.19	.89	1.00	27
1975	1.26	1.41	.89	1.00	31
1976	1.35	1.45	.93	1.00	30
1977	1.29	1.55	.83	1.00	19
1978	1.40	1.65	.85	1.00	22
1979	1.46	1.77	.82	1.00	22
1980	1.55	1.98	.79	1.00	19
1981	1.70	2.20	.78	1.00	21
1982	1.89	2.32	.82	1.00	25
1983	2.01	2.30	.87	1.00	17



**Table B.7** Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 14, Electrical Transmission, Distribution, and Industrial Apparatus

## A. Tachometers

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	1.41	.38	3.66	.15	2
1948	1.40	.40	3.47	.13	2
1949	1.40	.41	3.44	.13	2
1950	1.36	.42	3.21	.13	1
1951	1.36	.48	2.82	.13	1
1952	1.36	.47	2.88	.13	1
1953	1.24	.49	2.53	.10	1
1954	1.26	.51	2.45	.08	2
1955	1.18	.52	2.28	.08	2
1956	1.18	.54	2.17	.08	1
1957	1.18	.59	1.98	.08	1
1958	1.19	.63	1.89	.08	2
1959	1.19	.65	1.82	.08	1
1960	1.19	.68	1.76	.08	1
1961	1.31	.69	1.91	.08	2
1962	1.31	.70	1.89	.08	2
1963	1.11	.69	1.60	.08	1
1964	1.11	.70	1.60	.10	1
1965	1.00	.70	1.44	.12	1
1966	1.00	.74	1.35	.12	1
1967	.98	.78	1.26	.12	2
1968	.99	.83	1.19	.12	1
1969	.99	.87	1.14	.13	2
1970	.99	.92	1.08	.13	2
1971	1.00	.98	1.02	.13	2
1972	1.00	1.00	1.00	.13	2
1973	1.05	1.01	1.04	.13	2
1974	1.11	1.10	1.01	.13	2
1975	1.26	1.22	1.03	.13	4
1976	1.30	1.30	1.00	.13	2
1977	1.35	1.35	1.00	.14	2
1978	1.35	1.41	.95	.15	3
1979	1.25	1.49	.84	.17	2
1980	1.37	1.59	.86	.18	2
1981	1.56	1.78	.88	.18	1
1982	1.72	1.96	.88	.19	2
1983	1.72	2.06	.83	.19	2

(continued)

Table B.7 (continued)

## B. Electronic Auto Testers

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.99	.38	2.58	.15	1
1948	.98	.40	2.43	.13	1
1949	.98	.41	2.40	.13	1
1950	.98	.42	2.32	.13	2
1951	.98	.48	2.04	.13	3
1952	.97	.47	2.06	.13	3
1953	.96	.49	1.96	.10	2
1954	.96	.51	1.87	.08	3
1955	.96	.52	1.85	.08	1
1956	1.13	.54	2.09	.08	3
1957	1.13	.59	1.91	.08	3
1958	1.13	.63	1.80	.08	2
1959	1.05	.65	1.60	.08	2
1960	1.05	.68	1.55	.08	1
1961	1.05	.69	1.53	.08	1
1962	1.05	.70	1.51	.08	1
1963	1.05	.69	1.51	.08	2
1964	.99	.70	1.42	.10	4
1965	.97	.70	1.39	.12	2
1966	.97	.74	1.31	.12	1
1967	.97	.78	1.24	.12	1
1968	.97	.83	1.17	.12	1
1969	.97	.87	1.12	.13	2
1970	.97	.92	1.06	.13	2
1971	1.00	.98	1.02	.13	2
1972	1.00	1.00	1.00	.13	2
1973	1.00	1.01	.99	.13	2
1974	.95	1.10	.86	.13	1
1975	1.23	1.22	1.00	.13	4
1976	1.07	1.30	.83	.13	3
1977	1.21	1.35	.90	.14	1
1978	1.30	1.41	.92	.15	3
1979	1.20	1.49	.81	.17	2
1980	1.01	1.59	.64	.18	1
1981	1.19	1.78	.67	.18	1
1982	1.20	1.96	.62	.19	4
1983	1.32	2.06	.64	.19	3

## C. Panel-Type Ammeters

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.69	.37	1.88	.13	1
1949	.69	.37	1.86	.13	1
1950	.69	.38	1.80	.13	2
1951	.77	.44	1.76	.13	2
1952	.74	.43	1.73	.13	2
1953	.73	.44	1.65	.10	2
1954	.73	.47	1.58	.08	1
1955	.79	.47	1.69	.08	1
1956	.79	.49	1.61	.08	1
1957	.79	.54	1.47	.08	1
1958	.79	.57	1.38	.08	1

Table B.7C (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1959	.80	.59	1.35	.08	1
1960	.84	.61	1.37	.08	1
1961	.87	.62	1.40	.08	1
1962	.91	.63	1.44	.08	1
1963	.95	.63	1.51	.08	1
1964	.99	.63	1.57	.10	1
1965	.98	.63	1.55	.12	1
1966	.87	.67	1.30	.12	2
1967	.87	.71	1.22	.12	1
1968	.87	.83	1.05	.12	2
1969	1.00	.89	1.13	.13	1
1970	1.00	.91	1.10	.13	1
1971	1.00	.92	1.09	.13	1
1972	1.00	1.00	1.00	.13	1
1973	1.00	.92	1.09	.13	1
1974	1.04	1.00	1.04	.13	1
1975	1.15	1.11	1.03	.13	1
1976	.94	1.18	.80	.13	1
1977	.94	1.22	.77	.14	1
1978	.94	1.29	.73	.15	1
1979	.94	1.35	.69	.17	1
1980	.94	1.45	.65	.18	1
1981	1.31	1.62	.81	.18	2
1982	1.69	1.78	.95	.19	2
1983	1.88	1.88	1.00	.19	1

## D. Fractional Horsepower Electric Motors

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.52	.77	.68	.14	1
1948	.62	.74	.84	.13	1
1949	.62	.73	.84	.12	2
1950	.57	.75	.76	.12	5
1951	.65	.87	.74	.12	4
1952	.65	.86	.76	.12	5
1953	.64	.86	.75	.10	5
1954	.69	.83	.83	.08	5
1955	.63	.81	.78	.08	5
1956	.72	.82	.88	.08	4
1957	.71	.86	.83	.08	4
1958	.73	.84	.87	.07	5
1959	.69	.82	.84	.07	5
1960	.69	.84	.82	.07	4
1961	.75	.83	.90	.07	1
1962	.74	.81	.91	.06	2
1963	.61	.81	.75	.06	2
1964	.64	.79	.81	.08	5
1965	.67	.78	.85	.09	4
1966	.66	.80	.82	.09	4
1967	.74	.82	.90	.09	5
1968	.76	.85	.89	.09	4
1969	.83	.88	.93	.09	3
1970	.84	.95	.89	.09	3

(continued)

Table B.7D (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1971	.89	.98	.91	.09	3
1972	1.00	1.00	1.00	.09	3
1973	.96	1.03	.93	.09	1
1974	1.01	1.23	.82	.09	3
1975	1.17	1.35	.87	.09	14
1976	1.17	1.47	.80	.08	14
1977	1.25	1.57	.79	.06	5
1978	1.34	1.70	.79	.06	5
1979	1.45	1.86	.78	.05	5
1980	1.55	2.04	.76	.04	3
1981	1.74	2.26	.77	.03	5
1982	1.78	2.32	.77	.03	6
1983	1.90	2.37	.80	.03	5

## E. Power Transformers

Year	Kravis-Lipsev	PPI	Kravis-Lipsev/PPI	Weight	Models
1954	2.35	1.00	2.36	.35	30
1955	1.93	1.01	1.90	.35	30
1956	2.46	1.17	2.10	.35	30
1957	2.73	1.24	2.19	.35	30
1958	2.43	1.28	1.90	.35	1
1959	2.13	1.27	1.68	.35	1
1960	1.84	1.13	1.62	.35	1
1961	1.54	1.07	1.44	.35	30
1962	1.19	1.04	1.14	.35	30
1963	1.02	1.01	1.01	.35	30
1964	1.00	1.06	.94	.35	30

## F. Voltage Regulators

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.82	.65	1.27	.28	1
1948	.87	.66	1.31	.25	1
1949	.96	.67	1.43	.24	1
1950	.96	.69	1.39	.24	1
1951	.96	.78	1.24	.24	1
1952	1.08	.78	1.39	.24	1
1953	.91	.85	1.07	.19	1
1954	.95	.90	1.06	.15	1
1955	.87	.91	.96	.15	1
1956	.91	1.05	.87	.15	1
1957	.83	1.15	.73	.15	1
1958	.84	1.17	.72	.15	1
1959	.85	1.17	.73	.15	1
1960	.91	1.17	.78	.15	1
1961	.82	1.02	.81	.15	1
1962	.82	1.04	.79	.15	1
1963	.82	.97	.85	.15	1
1964	.81	.89	.91	.20	1
1965	.80	.79	1.02	.25	1
1966	.77	.80	.96	.26	1

Table B.7F (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1967	.82	.84	.98	.26	2
1968	.82	.87	.95	.25	2
1969	.93	.85	1.09	.25	2
1970	.98	.91	1.08	.24	2
1971	.97	1.00	.97	.24	2
1972	1.00	1.00	1.00	.23	2
1973	1.00	1.04	.96	.22	2
1974	1.00	1.15	.87	.22	1
1975	1.48	1.35	1.10	.22	2
1976	1.53	1.35	1.13	.21	2
1977	1.61	1.36	1.19	.21	2
1978	1.94	1.39	1.39	.10	1
1979	2.04	1.39	1.46	.00	1

## G. Fusible-Type Panelboards

Year	Sears	PPI	Sears/PPI	Weight	Models
1950	.37	.65	.57	.04	4
1951	.45	.79	.58	.04	4
1952	.47	.69	.69	.04	4
1953	.43	.65	.65	.03	4
1954	.44	.66	.66	.03	4
1955	.48	.68	.70	.03	5
1956	.54	.70	.77	.03	4
1957	.59	.76	.78	.03	4
1958	.65	.76	.85	.03	5
1959	.65	.76	.85	.03	5
1960	.65	.75	.86	.03	4
1961	.64	.72	.89	.03	4
1962	.65	.73	.90	.03	4
1963	.64	.79	.82	.03	4
1964	.64	.76	.84	.04	4
1965	.64	.72	.89	.05	4
1966	.68	.72	.94	.04	4
1967	.71	.73	.97	.04	4
1968	.74	.80	.92	.04	4
1969	.86	.89	.97	.04	1
1970	.91	.97	.94	.04	1
1971	1.00	1.00	1.00	.05	1
1972	1.00	1.00	1.00	.05	1
1973	1.00	1.00	1.00	.05	1
1974	1.00	1.14	.88	.05	1
1975	1.18	1.36	.86	.05	1
1976	1.46	1.52	.96	.05	1
1977	1.35	1.62	.83	.06	1
1978	1.36	1.79	.76	.07	1
1979	1.53	1.96	.78	.09	1
1980	1.75	2.32	.76	.09	1
1981	2.60	2.51	1.03	.10	1
1982	2.60	2.69	.97	.10	1
1983	2.60	2.74	.95	.10	1

(continued)

Table B.7 (continued)

## H. Circuit Breaker-Type Panelboards

Year	Sears	PPI	Sears/PPI	Weight	Models
1954	.88	.69	1.28	.03	2
1955	.93	.71	1.32	.03	3
1956	1.03	.73	1.41	.03	2
1957	1.11	.77	1.45	.03	2
1958	.89	.78	1.15	.03	2
1959	.87	.78	1.12	.03	4
1960	.87	.79	1.11	.03	4
1961	.81	.78	1.04	.03	4
1962	.82	.79	1.04	.03	4
1963	.82	.78	1.04	.03	4
1964	.82	.79	1.04	.04	3
1965	.82	.78	1.05	.05	4
1966	.82	.78	1.05	.04	5
1967	.85	.80	1.07	.04	3
1968	.83	.84	.99	.04	3
1969	.90	.88	1.02	.04	2
1970	.94	.95	1.00	.04	2
1971	1.00	.99	1.01	.05	2
1972	1.00	1.00	1.00	.05	2
1973	1.03	1.00	1.03	.05	2
1974	1.03	1.13	.91	.05	2
1975	1.27	1.27	1.00	.05	4
1976	1.33	1.43	.93	.05	4
1977	1.31	1.46	.90	.06	4
1978	1.27	1.65	.77	.07	4
1979	1.31	1.82	.72	.09	4
1980	1.42	2.18	.65	.09	4
1981	2.19	2.18	1.01	.10	3
1982	2.21	2.15	1.03	.10	3
1983	2.28	2.16	1.05	.10	3

## I. Indoor Safety Switches

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.63	.38	1.65	.09	2
1948	.46	.40	1.16	.08	2
1949	.43	.43	1.01	.07	2
1950	.44	.45	.96	.07	2
1951	.50	.54	.93	.07	2
1952	.52	.53	.97	.07	3
1953	.45	.55	.83	.06	3
1954	.48	.57	.85	.05	3
1955	.52	.59	.88	.05	4
1956	.59	.66	.89	.05	3
1957	.64	.70	.92	.05	3
1958	.69	.74	.93	.05	3
1959	.69	.74	.93	.05	3
1960	.69	.74	.93	.05	3
1961	.68	.74	.92	.04	3
1962	.69	.74	.92	.04	2
1963	.68	.74	.92	.05	2

Table B.7I (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1964	.68	.74	.92	.06	2
1965	.68	.73	.93	.08	2
1966	.71	.73	.98	.08	2
1967	.75	.75	1.00	.08	3
1968	.78	.82	.94	.08	3
1969	.88	.89	.99	.08	2
1970	.92	.96	.96	.08	2
1971	1.00	1.00	1.00	.08	2
1972	1.00	1.00	1.00	.08	2
1973	1.00	1.00	1.00	.08	1
1974	1.00	1.13	.88	.08	1
1975	1.14	1.30	.88	.08	1
1976	1.44	1.48	.97	.08	1
1977	1.44	1.54	.93	.08	1
1978	1.38	1.66	.83	.09	1
1979	1.50	1.83	.82	.10	1
1980	1.97	2.15	.91	.09	1
1981	2.61	2.40	1.09	.10	1
1982	2.61	2.64	.99	.10	1
1983	2.61	2.83	.92	.10	1

## J. Circuit Breakers

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.71	.40	1.79	.09	4
1948	.70	.41	1.70	.08	4
1949	.82	.42	1.98	.08	4
1950	.78	.44	1.78	.08	4
1951	.81	.50	1.63	.08	4
1952	.83	.50	1.64	.08	4
1953	.69	.53	1.30	.06	4
1954	.66	.55	1.19	.05	4
1955	.68	.56	1.22	.05	4
1956	.75	.60	1.25	.05	4
1957	.81	.66	1.24	.05	4
1958	.88	.66	1.35	.05	4
1959	.90	.65	1.40	.05	4
1960	.91	.63	1.45	.05	4
1961	.85	.64	1.34	.05	4
1962	.86	.66	1.29	.05	4
1963	.82	.68	1.21	.05	4
1964	.82	.74	1.11	.05	4
1965	.82	.74	1.11	.05	4
1966	.84	.75	1.12	.05	4
1967	.82	.81	1.01	.04	4
1968	.81	.85	.95	.04	4
1969	.92	.88	1.04	.04	3
1970	.92	.93	.99	.04	3
1971	1.01	.99	1.02	.04	3
1972	1.00	1.00	1.00	.04	3
1973	.94	1.04	.91	.05	3
1974	.94	1.15	.82	.05	3
1975	1.27	1.38	.92	.05	3

(continued)

Table B.7J (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1976	1.26	1.52	.83	.05	3
1977	1.19	1.29	.92	.05	3
1978	1.19	1.33	.89	.06	3
1979	1.26	1.84	.68	.06	3
1980	1.37	2.26	.61	.07	3
1981	1.74	2.47	.70	.07	4
1982	1.89	2.52	.75	.07	4
1983	1.89	2.60	.73	.07	4

## K. Outdoor Power Switches

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.42	.56	.75	.08	1
1949	.50	.59	.84	.07	1
1950	.39	.63	.62	.07	1
1951	.52	.75	.69	.07	2
1952	.47	.74	.64	.07	2
1953	.46	.76	.61	.06	2
1954	.49	.78	.63	.05	2
1955	.52	.82	.64	.05	2
1956	.55	.91	.61	.05	2
1957	.60	.97	.63	.05	1
1958	.66	1.03	.64	.05	1
1959	.66	1.03	.64	.05	1
1960	.66	1.03	.64	.05	1
1961	.66	1.03	.64	.04	1
1962	.66	1.03	.64	.04	2
1963	.66	1.03	.64	.05	2
1964	.65	1.03	.64	.06	2
1965	.65	1.01	.65	.08	2
1966	.71	1.01	.71	.08	2
1967	.73	1.03	.71	.08	2
1968	.74	1.01	.73	.08	2
1969	.89	.99	.90	.08	2
1970	.91	1.02	.89	.08	2
1971	1.01	1.02	.99	.08	2
1972	1.00	1.00	1.00	.08	2
1973	1.00	1.04	.96	.08	2
1974	1.00	1.35	.74	.08	2
1975	1.09	1.53	.71	.08	3
1976	1.32	1.58	.83	.08	3
1977	1.30	1.70	.76	.08	3
1978	1.28	1.85	.69	.09	3
1979	1.36	2.13	.64	.10	3
1980	1.59	2.56	.62	.09	3
1981	2.21	2.87	.77	.05	3
1982	2.21	3.09	.71	.00	2



Table B.7 (continued)

## L. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	1.03	.51	2.03	1.00	11
1948	1.04	.52	2.00	1.00	13
1949	1.09	.53	2.06	1.00	14
1950	1.05	.55	1.91	1.00	22
1951	1.13	.63	1.79	1.00	23
1952	1.15	.62	1.86	1.00	25
1953	1.06	.65	1.63	1.00	24
1954	1.08	.69	1.57	1.00	57
1955	1.00	.70	1.43	1.00	58
1956	1.15	.77	1.48	1.00	55
1957	1.19	.83	1.43	1.00	54
1958	1.16	.86	1.35	1.00	27
1959	1.10	.86	1.28	1.00	28
1960	1.06	.83	1.27	1.00	25
1961	.99	.80	1.23	1.00	52
1962	.91	.80	1.13	1.00	53
1963	.84	.78	1.07	1.00	53
1964	.83	.79	1.05	1.00	57
1965	.82	.75	1.10	1.00	25
1966	.81	.77	1.05	1.00	26
1967	.84	.80	1.04	1.00	27
1968	.84	.85	.99	1.00	26
1969	.93	.88	1.05	1.00	20
1970	.95	.93	1.02	1.00	20
1971	.98	.98	1.00	1.00	20
1972	1.00	1.00	1.00	1.00	20
1973	1.00	1.01	.99	1.00	17
1974	1.01	1.13	.89	1.00	17
1975	1.25	1.29	.97	1.00	37
1976	1.26	1.37	.92	1.00	34
1977	1.30	1.41	.92	1.00	23
1978	1.36	1.49	.92	1.00	25
1979	1.38	1.61	.85	1.00	23
1980	1.46	1.81	.80	1.00	19
1981	1.89	2.00	.95	1.00	21
1982	2.04	2.15	.95	1.00	25
1983	2.13	2.24	.95	1.00	20

**Table B.8** Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 17, Autos

## A. Autos

Year	Chapter 8	NIPA	Car Ratio	Weight	Models
1947	1.07	.53	2.01	1.00	48
1948	1.21	.60	2.01	1.00	48
1949	1.01	.65	1.57	1.00	68
1950	.98	.65	1.51	1.00	78
1951	1.03	.78	1.31	1.00	83
1952	1.11	.88	1.25	1.00	85
1953	1.09	.71	1.53	1.00	78
1954	1.01	.80	1.27	1.00	71
1955	1.11	.74	1.50	1.00	72
1956	1.07	1.05	1.02	1.00	78
1957	1.06	.98	1.08	1.00	80
1958	.90	1.07	.84	1.00	81
1959	.96	.94	1.03	1.00	82
1960	.96	.92	1.05	1.00	82
1961	.99	.95	1.04	1.00	85
1962	1.00	.91	1.09	1.00	89
1963	1.02	.93	1.09	1.00	100
1964	.98	.91	1.08	1.00	115
1965	.99	.87	1.14	1.00	127
1966	.92	.90	1.02	1.00	141
1967	.90	.92	.98	1.00	159
1968	.93	.91	1.02	1.00	165
1969	.88	.94	.94	1.00	162
1970	.94	1.09	.86	1.00	164
1971	.99	1.02	.96	1.00	158
1972	1.00	1.00	1.00	1.00	178
1973	.99	.98	1.01	1.00	149
1974	.92	1.11	.83	1.00	155
1975	1.11	1.18	.94	1.00	175
1976	1.22	1.15	1.06	1.00	178
1977	1.19	1.15	1.03	1.00	167
1978	1.28	1.29	.99	1.00	155
1979	1.23	1.45	.85	1.00	151
1980	1.38	1.75	.79	1.00	149
1981	1.52	1.54	.99	1.00	155
1982	1.63	1.45	1.13	1.00	124
1983	1.74	1.40	1.25	1.00	144

Table B.8 (continued)

## B. Group Average

Year	Chapter 8	NIPA	Ratio	Weight	Models
1947	1.07	.53	2.01	1.00	48
1948	1.21	.60	2.01	1.00	48
1949	1.01	.65	1.57	1.00	68
1950	.98	.65	1.51	1.00	78
1951	1.03	.78	1.31	1.00	83
1952	1.11	.88	1.25	1.00	85
1953	1.09	.71	1.53	1.00	78
1954	1.01	.80	1.27	1.00	71
1955	1.11	.74	1.50	1.00	72
1956	1.07	1.05	1.02	1.00	78
1957	1.06	.98	1.08	1.00	80
1958	.90	1.07	.84	1.00	81
1959	.96	.94	1.03	1.00	82
1960	.96	.92	1.05	1.00	82
1961	.99	.95	1.04	1.00	85
1962	1.00	.91	1.09	1.00	89
1963	1.02	.93	1.09	1.00	100
1964	.98	.91	1.08	1.00	115
1965	.99	.87	1.14	1.00	127
1966	.92	.90	1.02	1.00	141
1967	.90	.92	.98	1.00	159
1968	.93	.91	1.02	1.00	165
1969	.88	.94	.94	1.00	162
1970	.94	1.09	.86	1.00	164
1971	.99	1.02	.96	1.00	158
1972	1.00	1.00	1.00	1.00	178
1973	.99	.98	1.01	1.00	149
1974	.92	1.11	.83	1.00	155
1975	1.11	1.18	.94	1.00	175
1976	1.22	1.15	1.06	1.00	178
1977	1.19	1.15	1.03	1.00	167
1978	1.28	1.29	.99	1.00	155
1979	1.23	1.45	.85	1.00	151
1980	1.38	1.75	.79	1.00	149
1981	1.52	1.54	.99	1.00	155
1982	1.63	1.45	1.13	1.00	124
1983	1.74	1.40	1.25	1.00	144

**Table B.9** Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 18, Aircraft

## A. Aircraft

Year	Chapter 4	NIPA	Air Ratio	Weight	Models
1947	4.22	.31	13.65	1.00	41
1948	4.23	.82	5.13	1.00	63
1949	4.43	.41	10.75	1.00	32
1950	5.02	.62	8.12	1.00	32
1951	4.85	.62	7.84	1.00	20
1952	5.20	.55	9.46	1.00	58
1953	5.45	.62	8.81	1.00	53
1954	5.81	.55	10.57	1.00	56
1955	5.98	.71	8.47	1.00	53
1956	6.08	.71	8.61	1.00	67
1957	6.12	.65	9.41	1.00	96
1958	5.25	.76	6.90	1.00	98
1959	3.06	.74	4.13	1.00	86
1960	1.92	.73	2.62	1.00	117
1961	1.84	.71	2.61	1.00	150
1962	1.83	.76	2.40	1.00	107
1963	1.89	.82	2.30	1.00	64
1964	1.96	.73	2.67	1.00	80
1965	2.01	.80	2.50	1.00	139
1966	1.89	.79	2.38	1.00	185
1967	1.47	.84	1.76	1.00	96
1968	1.27	.86	1.48	1.00	129
1969	1.24	.90	1.38	1.00	230
1970	1.12	.93	1.21	1.00	122
1971	1.01	.97	1.03	1.00	73
1972	1.00	1.00	1.00	1.00	95
1973	1.04	1.05	.99	1.00	57
1974	1.07	1.12	.95	1.00	71
1975	1.13	1.24	.91	1.00	83
1976	1.21	1.41	.86	1.00	86
1977	1.35	1.50	.90	1.00	66
1978	1.41	1.65	.86	1.00	81
1979	1.42	1.82	.78	1.00	118
1980	1.56	2.03	.77	1.00	115
1981	1.72	2.23	.77	1.00	75
1982	1.78	2.47	.72	1.00	38
1983	1.74	2.53	.69	1.00	52

Table B.9 (continued)

## B. Group Average

Year	Chapter 4	NIPA	Air Ratio	Weight	Models
1947	4.22	.31	13.65	1.00	41
1948	4.23	.82	5.13	1.00	63
1949	4.43	.41	10.75	1.00	32
1950	5.02	.62	8.12	1.00	32
1951	4.85	.62	7.84	1.00	20
1952	5.20	.55	9.46	1.00	58
1953	5.45	.62	8.81	1.00	53
1954	5.81	.55	10.57	1.00	56
1955	5.98	.71	8.47	1.00	53
1956	6.08	.71	8.61	1.00	67
1957	6.12	.65	9.41	1.00	96
1958	5.25	.76	6.90	1.00	98
1959	3.06	.74	4.13	1.00	86
1960	1.92	.73	2.62	1.00	117
1961	1.84	.71	2.61	1.00	150
1962	1.83	.76	2.40	1.00	107
1963	1.89	.82	2.30	1.00	64
1964	1.96	.73	2.67	1.00	80
1965	2.01	.80	2.50	1.00	139
1966	1.89	.79	2.38	1.00	185
1967	1.47	.84	1.76	1.00	96
1968	1.27	.86	1.48	1.00	129
1969	1.24	.90	1.38	1.00	230
1970	1.12	.93	1.21	1.00	122
1971	1.01	.97	1.03	1.00	73
1972	1.00	1.00	1.00	1.00	95
1973	1.04	1.05	.99	1.00	57
1974	1.07	1.12	.95	1.00	71
1975	1.13	1.24	.91	1.00	83
1976	1.21	1.41	.86	1.00	86
1977	1.35	1.50	.90	1.00	66
1978	1.41	1.65	.86	1.00	81
1979	1.42	1.82	.78	1.00	118
1980	1.56	2.03	.77	1.00	115
1981	1.72	2.23	.77	1.00	75
1982	1.78	2.47	.72	1.00	38
1983	1.74	2.53	.69	1.00	52

**Table B.10 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 20, Railroad Equipment**

A. Railroad Locomotives and Freight Cars

Year	Chapter 9	NIPA	Rail Ratio	Weight	Models
1947	.60	.43	1.38	1.00	10
1948	.69	.50	1.37	1.00	10
1949	.66	.49	1.35	1.00	10
1950	.73	.55	1.33	1.00	10
1951	.74	.56	1.32	1.00	10
1952	.76	.58	1.30	1.00	10
1953	.75	.58	1.29	1.00	10
1954	.79	.62	1.27	1.00	10
1955	.79	.63	1.25	1.00	10
1956	.80	.65	1.24	1.00	10
1957	.89	.73	1.22	1.00	10
1958	.97	.80	1.21	1.00	10
1959	.84	.70	1.19	1.00	10
1960	.93	.79	1.18	1.00	10
1961	.89	.76	1.16	1.00	10
1962	.88	.76	1.15	1.00	10
1963	.94	.82	1.14	1.00	10
1964	.90	.80	1.12	1.00	10
1965	.88	.79	1.11	1.00	10
1966	.88	.80	1.09	1.00	10
1967	.89	.83	1.08	1.00	10
1968	.90	.85	1.07	1.00	10
1969	.92	.87	1.06	1.00	10
1970	.99	.95	1.04	1.00	10
1971	1.02	1.00	1.02	1.00	10
1972	1.00	1.00	1.00	1.00	10
1973	1.05	1.07	.98	1.00	10
1974	1.17	1.22	.96	1.00	10
1975	1.47	1.57	.94	1.00	10
1976	1.59	1.72	.92	1.00	10
1977	1.66	1.85	.90	1.00	10
1978	1.77	2.01	.88	1.00	10
1979	1.91	2.21	.86	1.00	10
1980	2.08	2.43	.85	1.00	10
1981	2.29	2.72	.84	1.00	10
1982	2.33	2.80	.83	1.00	10
1983	2.30	2.80	.82	1.00	10

Table B.10 (continued)

## B. Group Average

Year	Chapter 9	NIPA	Rail Ratio	Weight	Models
1947	.60	.43	1.38	1.00	10
1948	.69	.50	1.37	1.00	10
1949	.66	.49	1.35	1.00	10
1950	.73	.55	1.33	1.00	10
1951	.74	.56	1.32	1.00	10
1952	.76	.58	1.30	1.00	10
1953	.75	.58	1.29	1.00	10
1954	.79	.62	1.27	1.00	10
1955	.79	.63	1.25	1.00	10
1956	.80	.65	1.24	1.00	10
1957	.89	.73	1.22	1.00	10
1958	.97	.80	1.21	1.00	10
1959	.84	.70	1.19	1.00	10
1960	.93	.79	1.18	1.00	10
1961	.89	.76	1.16	1.00	10
1962	.88	.76	1.15	1.00	10
1963	.94	.82	1.14	1.00	10
1964	.90	.80	1.12	1.00	10
1965	.88	.79	1.11	1.00	10
1966	.88	.80	1.09	1.00	10
1967	.89	.83	1.08	1.00	10
1968	.90	.85	1.07	1.00	10
1969	.92	.87	1.06	1.00	10
1970	.99	.95	1.04	1.00	10
1971	1.02	1.00	1.02	1.00	10
1972	1.00	1.00	1.00	1.00	10
1973	1.05	1.07	.98	1.00	10
1974	1.17	1.22	.96	1.00	10
1975	1.47	1.57	.94	1.00	10
1976	1.59	1.72	.92	1.00	10
1977	1.66	1.85	.90	1.00	10
1978	1.77	2.01	.88	1.00	10
1979	1.91	2.21	.86	1.00	10
1980	2.08	2.43	.85	1.00	10
1981	2.29	2.72	.84	1.00	10
1982	2.33	2.80	.83	1.00	10
1983	2.30	2.80	.82	1.00	10

**Table B.11** Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 22, Furniture and Fixtures

A. Typewriter Tables

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.81	.47	1.74	.21	1
1948	.80	.49	1.63	.17	1
1949	.95	.51	1.86	.10	1
1950	.75	.53	1.42	.07	1
1951	.86	.60	1.44	.07	1
1952	.84	.60	1.40	.07	1
1953	.86	.61	1.40	.07	1
1954	.88	.62	1.41	.07	1
1955	.90	.65	1.37	.07	1
1956	.98	.71	1.38	.07	1
1957	1.05	.76	1.38	.07	1
1958	1.05	.79	1.33	.07	1
1959	.95	.79	1.20	.07	1
1960	.90	.79	1.14	.07	1
1961	.89	.78	1.14	.07	1
1962	.89	.79	1.13	.07	1
1963	.89	.79	1.13	.07	1
1964	.89	.79	1.12	.07	1
1965	.88	.79	1.10	.07	1
1966	.74	.80	.93	.07	1
1967	.90	.83	1.08	.07	1
1968	.93	.86	1.08	.07	1
1969	.97	.89	1.09	.07	1
1970	.97	.95	1.02	.07	1
1971	.97	.99	.98	.07	1
1972	1.00	1.00	1.00	.07	1
1973	1.02	1.10	.93	.07	1
1974	1.05	1.31	.80	.07	1
1975	1.34	1.43	.94	.07	4
1976	1.45	1.51	.96	.07	4
1977	1.54	1.59	.97	.07	4
1978	1.95	1.72	1.14	.08	4
1979	2.17	1.88	1.15	.08	3
1980	2.17	1.97	1.10	.08	2
1981	2.26	2.16	1.05	.08	3
1982	2.61	2.32	1.13	.08	3
1983	2.91	2.41	1.21	.08	3

B. Card Files

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.70	.45	1.58	.24	2
1948	.69	.47	1.48	.20	2
1949	.66	.49	1.35	.12	2
1950	.63	.51	1.22	.08	2
1951	.66	.58	1.13	.08	2
1952	.75	.58	1.29	.08	2
1953	.74	.59	1.25	.08	2
1954	.72	.60	1.20	.08	2
1955	.72	.63	1.15	.08	2



Table B.11B (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1956	.72	.69	1.04	.08	2
1957	.75	.74	1.01	.08	2
1958	.71	.76	.93	.08	2
1959	.71	.77	.92	.08	2
1960	.75	.77	.98	.08	2
1961	.70	.77	.90	.08	2
1962	.70	.78	.89	.08	2
1963	.70	.79	.88	.08	2
1964	.68	.79	.86	.08	2
1965	.66	.79	.83	.08	2
1966	.68	.80	.84	.08	2
1967	.77	.84	.92	.08	2
1968	.77	.87	.89	.08	2
1969	.89	.90	.98	.08	2
1970	.93	.95	.98	.08	2
1971	.97	.98	.99	.08	2
1972	1.00	1.00	1.00	.08	1
1973	.95	1.09	.87	.08	1
1974	1.13	1.34	.84	.08	2
1975	1.86	1.55	1.21	.08	1
1976	1.86	1.61	1.16	.08	3
1977	2.01	1.71	1.17	.04	3
1978	2.16	1.86	1.16	.00	3

## C. Fluorescent Lighting Fixtures

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.72	.49	1.45	.55	2
1948	.67	.52	1.29	.45	2
1949	.72	.54	1.32	.27	2
1950	.63	.57	1.11	.19	2
1951	.66	.63	1.04	.19	1
1952	.72	.64	1.13	.19	2
1953	.72	.65	1.11	.19	2
1954	.69	.66	1.05	.19	2
1955	.68	.70	.97	.19	2
1956	.72	.76	.96	.19	2
1957	.73	.81	.90	.19	2
1958	.73	.84	.87	.19	2
1959	.73	.84	.87	.19	2
1960	.73	.84	.87	.19	2
1961	.73	.93	.79	.19	2
1962	.74	.88	.84	.19	2
1963	.74	.86	.86	.19	2
1964	.74	.86	.86	.19	2
1965	.74	.85	.88	.19	2
1966	.74	.87	.86	.19	2
1967	.75	.88	.85	.19	2
1968	.81	.91	.89	.19	2
1969	.89	.95	.93	.19	2
1970	.95	.99	.96	.19	2
1971	1.00	1.00	1.00	.19	2

(continued)

Table B.11C (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1972	1.00	1.00	1.00	.19	6
1973	.99	1.01	.98	.19	5
1974	.95	1.13	.83	.19	2
1975	1.14	1.18	.96	.19	6
1976	1.14	1.19	.96	.19	6
1977	1.14	1.20	.95	.19	3
1978	1.14	1.26	.91	.20	3
1979	1.21	1.44	.84	.20	3
1980	1.38	1.59	.87	.20	3
1981	1.55	1.81	.85	.20	3
1982	1.62	1.94	.83	.20	3
1983	1.62	1.93	.84	.20	3

## D. Steel Desks

Year	Sears	PPI	Sears/PPI	Weight	Models
1950	.45	.53	.84	.23	1
1951	.48	.60	.81	.23	1
1952	.57	.60	.94	.23	1
1953	.55	.61	.90	.23	1
1954	.55	.62	.89	.23	1
1955	.57	.66	.86	.23	1
1956	.64	.71	.89	.23	1
1957	.74	.76	.98	.23	1
1958	.74	.79	.94	.23	1
1959	.74	.79	.94	.23	1
1960	.78	.79	.98	.23	1
1961	.78	.78	.99	.23	1
1962	.81	.79	1.03	.23	1
1963	.74	.79	.94	.23	1
1964	.81	.79	1.02	.23	1
1965	.88	.79	1.11	.23	1
1966	.88	.80	1.10	.23	1
1967	.88	.83	1.06	.23	1
1968	.88	.88	1.00	.23	1
1969	.92	.91	1.02	.23	1
1970	.93	.96	.97	.23	1
1971	.97	.99	.98	.23	1
1972	1.00	1.00	1.00	.23	1
1973	1.03	1.11	.92	.23	1
1974	1.08	1.30	.83	.23	1
1975	1.16	1.36	.85	.23	3
1976	1.06	1.43	.75	.23	4
1977	1.16	1.52	.76	.24	3
1978	1.29	1.65	.78	.25	3
1979	1.46	1.80	.81	.25	3
1980	1.65	1.89	.87	.25	2
1981	1.59	2.06	.77	.25	2
1982	1.76	2.23	.79	.25	3
1983	1.91	2.36	.81	.25	3

Table B.11 (continued)

## E. Filing Cabinets

Year	Sears	PPI	Sears/PPI	Weight	Models
1950	.79	.51	1.55	.25	2
1951	.81	.58	1.40	.25	2
1952	.97	.58	1.67	.25	2
1953	.97	.59	1.64	.25	2
1954	.98	.60	1.64	.25	2
1955	.92	.63	1.47	.25	2
1956	1.01	.69	1.47	.25	2
1957	1.11	.74	1.50	.25	2
1958	1.12	.76	1.47	.25	2
1959	.95	.77	1.24	.25	2
1960	.99	.77	1.29	.25	4
1961	.96	.77	1.25	.25	6
1962	.79	.78	1.01	.25	4
1963	.79	.79	1.01	.25	8
1964	.80	.79	1.02	.25	8
1965	.81	.79	1.03	.25	8
1966	.83	.80	1.04	.25	8
1967	.85	.84	1.01	.25	8
1968	.91	.87	1.04	.25	8
1969	.90	.90	1.00	.25	8
1970	.97	.95	1.02	.25	8
1971	.97	.98	.99	.25	8
1972	1.00	1.00	1.00	.25	8
1973	1.01	1.09	.92	.25	8
1974	1.11	1.34	.83	.25	8
1975	1.55	1.55	1.00	.25	8
1976	1.45	1.61	.90	.25	8
1977	1.58	1.71	.92	.26	8
1978	1.74	1.86	.93	.27	8
1979	1.82	2.07	.88	.27	8
1980	1.98	2.17	.91	.27	8
1981	2.00	2.38	.84	.27	8
1982	2.20	2.54	.87	.27	8
1983	2.42	2.63	.92	.27	8

## F. Office Swivel Chairs

Year	Sears	PPI	Sears/PPI	Weight	Models
1949	.85	.54	1.58	.27	1
1950	.85	.55	1.55	.19	3
1951	.87	.61	1.41	.19	3
1952	.84	.61	1.36	.19	2
1953	.84	.63	1.33	.19	1
1954	.81	.64	1.25	.19	1
1955	.79	.65	1.22	.19	1
1956	.81	.68	1.19	.19	1
1957	.87	.71	1.23	.19	1
1958	.87	.72	1.21	.19	1
1959	.76	.72	1.06	.19	1
1960	.73	.74	.98	.19	1

(continued)

Table B.11F (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1961	.73	.75	.97	.19	1
1962	.73	.75	.97	.19	1
1963	.73	.76	.96	.19	1
1964	.73	.77	.95	.19	1
1965	.73	.77	.95	.19	1
1966	.78	.81	.96	.19	1
1967	.81	.86	.94	.19	1
1968	.92	.89	1.04	.19	1
1969	.92	.93	1.00	.19	1
1970	.97	.96	1.01	.19	1
1971	.97	.99	.99	.19	1
1972	1.00	1.00	1.00	.19	1
1973	.97	1.05	.92	.19	1
1974	1.05	1.24	.84	.19	1
1975	1.41	1.36	1.04	.19	1
1976	1.28	1.46	.88	.19	1
1977	1.44	1.56	.92	.19	1
1978	1.35	1.68	.80	.20	1
1979	1.50	1.85	.81	.20	1
1980	1.65	1.98	.83	.20	1
1981	1.50	2.19	.69	.20	1
1982	1.80	2.33	.78	.20	1
1983	1.95	2.43	.80	.20	1

## G. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	.70	.47	1.48	1.00	5
1948	.67	.50	1.35	1.00	5
1949	.70	.52	1.36	1.00	6
1950	.66	.54	1.23	1.00	11
1951	.69	.60	1.15	1.00	10
1952	.77	.60	1.27	1.00	10
1953	.76	.62	1.24	1.00	9
1954	.75	.63	1.20	1.00	9
1955	.74	.65	1.13	1.00	9
1956	.80	.71	1.13	1.00	9
1957	.86	.75	1.15	1.00	9
1958	.86	.77	1.11	1.00	9
1959	.80	.78	1.03	1.00	9
1960	.81	.78	1.04	1.00	11
1961	.80	.80	1.00	1.00	13
1962	.77	.80	.97	1.00	11
1963	.76	.80	.95	1.00	15
1964	.77	.80	.97	1.00	15
1965	.79	.80	.99	1.00	15
1966	.80	.81	.98	1.00	15
1967	.83	.85	.97	1.00	15
1968	.88	.88	.99	1.00	15
1969	.91	.92	1.00	1.00	15
1970	.95	.96	.99	1.00	15
1971	.98	.99	.99	1.00	15
1972	1.00	1.00	1.00	1.00	18

Table B.11G (continued)

Year	Alternative	Official	Alternative/Official	Weight	Models
1973	1.00	1.07	.93	1.00	17
1974	1.06	1.27	.83	1.00	15
1975	1.35	1.39	.98	1.00	23
1976	1.29	1.44	.89	1.00	26
1977	1.39	1.53	.91	1.00	22
1978	1.47	1.64	.89	1.00	22
1979	1.60	1.82	.88	1.00	18
1980	1.76	1.94	.91	1.00	16
1981	1.77	2.14	.82	1.00	17
1982	1.97	2.30	.86	1.00	18
1983	2.11	2.38	.89	1.00	18

**Table B.12 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 23, Tractors**

A. Garden Tractors

Year	Sears	PPI	Sears/PPI	Weight	Models
1949	1.24	.66	1.88	.05	1
1950	1.07	.66	1.63	.03	1
1951	1.12	.68	1.64	.03	1
1952	1.11	.71	1.58	.03	1
1953	1.17	.71	1.65	.03	2
1954	1.11	.70	1.58	.03	2
1955	.93	.70	1.34	.03	3
1956	.86	.72	1.19	.03	4
1957	.88	.76	1.17	.03	4
1958	.91	.76	1.20	.03	3
1959	.85	.76	1.12	.03	1
1960	.87	.77	1.13	.04	3
1961	.86	.78	1.11	.04	4
1962	.80	.79	1.02	.04	2
1963	.79	.79	1.00	.05	3
1964	.76	.80	.95	.06	3
1965	.76	.82	.93	.06	2
1966	.77	.83	.92	.07	2
1967	.83	.83	1.00	.08	3
1968	.83	.86	.96	.08	2
1969	.84	.90	.93	.08	2
1970	.87	.95	.92	.08	2
1971	1.00	.99	1.01	.08	1
1972	1.00	1.00	1.00	.08	1
1973	1.00	1.01	.99	.08	2
1974	1.04	1.14	.91	.08	2
1975	1.39	1.28	1.08	.08	2
1976	1.41	1.40	1.00	.08	3
1977	1.41	1.52	.93	.08	7
1978	1.41	1.61	.88	.08	1
1979	1.62	1.72	.94	.08	3
1980	1.47	1.90	.77	.09	5
1981	1.47	2.04	.72	.09	3
1982	1.77	2.17	.81	.09	3
1983	1.77	2.42	.73	.09	1

B. Wheel Tractors

Year	Hedonic	PPI	Hedonic/PPI	Weight	Models
1947	.51	.47	1.09	1.00	17
1948	.62	.52	1.19	.97	17
1949	.75	.55	1.36	.68	14
1950	.66	.56	1.28	.43	17
1951	.82	.59	1.39	.43	18
1952	.84	.60	1.40	.43	18
1953	.79	.60	1.31	.43	19
1954	.75	.59	1.28	.43	15
1955	.64	.58	1.10	.43	8
1956	.68	.60	1.13	.43	10
1957	.70	.63	1.11	.43	6
1958	.77	.66	1.18	.42	10

Table B.12B (continued)

Year	Hedonic	PPI	Hedonic/PPI	Weight	Models
1959	.84	.68	1.24	.42	13
1960	.79	.69	1.14	.42	18
1961	.79	.71	1.12	.42	16
1962	.84	.72	1.16	.41	18
1963	.82	.73	1.11	.41	16
1964	.85	.75	1.14	.40	19
1965	.82	.76	1.07	.40	18
1966	.82	.79	1.04	.40	16
1967	.85	.81	1.05	.39	20
1968	.90	.84	1.07	.39	22
1969	.93	.88	1.05	.39	21
1970	.97	.93	1.05	.39	16
1971	.96	.96	1.00	.39	28
1972	1.00	1.00	1.00	.39	22
1973	1.00	1.02	.98	.40	30
1974	1.05	1.17	.89	.40	25
1975	1.70	1.39	1.22	.39	26
1976	1.78	1.51	1.17	.39	30
1977	1.97	1.65	1.19	.38	12
1978	2.15	1.79	1.20	.38	12
1979	2.43	1.97	1.24	.37	24
1980	2.57	2.26	1.14	.37	24
1981	2.94	2.55	1.15	.37	30
1982	2.99	2.80	1.07	.37	30
1983	2.93	2.97	.99	.37	30

## C. Crawler Tractors

Year	Hedonic	PPI	Hedonic/PPI	Weight	Models
1950	.54	.37	1.45	.54	8
1951	.66	.41	1.61	.54	8
1952	.65	.43	1.52	.54	9
1953	.64	.45	1.41	.54	10
1954	.69	.47	1.47	.54	10
1955	.65	.49	1.33	.54	10
1956	.67	.55	1.23	.54	10
1957	.61	.59	1.05	.54	6
1958	.73	.62	1.18	.54	6
1959	.77	.64	1.20	.54	6
1960	.80	.66	1.22	.54	6
1961	.87	.67	1.29	.54	6
1962	.87	.67	1.28	.55	12
1963	.82	.69	1.19	.54	11
1964	.84	.72	1.17	.54	10
1965	.85	.73	1.16	.54	10
1966	.85	.75	1.14	.53	9
1967	.89	.78	1.14	.53	6
1968	.88	.84	1.04	.53	6
1969	.95	.89	1.07	.53	12
1970	1.00	.92	1.08	.53	6
1971	.98	.97	1.02	.53	6
1972	1.00	1.00	1.00	.53	6

(continued)

Table B.12C (continued)

Year	Hedonic	PPI	Hedonic/PPI	Weight	Models
1973	1.05	1.04	1.01	.53	5
1974	1.09	1.23	.89	.53	4
1975	1.29	1.50	.86	.53	2
1976	1.35	1.62	.84	.53	2
1977	1.65	1.76	.94	.53	2
1978	1.69	1.94	.87	.54	10
1979	1.64	2.15	.76	.54	7
1980	1.62	2.39	.68	.54	7
1981	1.68	2.61	.64	.55	8
1982	1.78	2.86	.62	.55	5
1983	1.72	2.96	.58	.55	2

## D. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	.46	.38	1.18	1.00	17
1948	.55	.43	1.29	1.00	17
1949	.66	.45	1.47	1.00	15
1950	.60	.45	1.33	1.00	26
1951	.74	.49	1.50	1.00	27
1952	.73	.50	1.46	1.00	28
1953	.71	.52	1.36	1.00	31
1954	.73	.53	1.38	1.00	27
1955	.65	.53	1.22	1.00	21
1956	.68	.57	1.18	1.00	24
1957	.65	.61	1.07	1.00	16
1958	.75	.64	1.17	1.00	19
1959	.80	.66	1.21	1.00	20
1960	.80	.68	1.18	1.00	27
1961	.83	.69	1.21	1.00	26
1962	.85	.70	1.21	1.00	32
1963	.82	.71	1.14	1.00	30
1964	.84	.73	1.14	1.00	32
1965	.83	.75	1.11	1.00	30
1966	.83	.77	1.08	1.00	27
1967	.87	.80	1.09	1.00	29
1968	.88	.85	1.05	1.00	30
1969	.93	.89	1.05	1.00	35
1970	.98	.93	1.05	1.00	24
1971	.97	.96	1.01	1.00	35
1972	1.00	1.00	1.00	1.00	29
1973	1.03	1.03	1.00	1.00	37
1974	1.07	1.20	.89	1.00	31
1975	1.45	1.44	1.01	1.00	30
1976	1.51	1.56	.97	1.00	35
1977	1.75	1.70	1.03	1.00	21
1978	1.83	1.85	.99	1.00	23
1979	1.91	2.04	.94	1.00	34
1980	1.92	2.29	.84	1.00	36
1981	2.06	2.53	.81	1.00	41
1982	2.17	2.77	.78	1.00	38
1983	2.12	2.91	.73	1.00	33



**Table B.13** Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 24, Agricultural Machinery, Except Tractors

## A. Tractor-Drawn Plows

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.34	.41	.83	.18	2
1949	.36	.46	.79	.12	2
1950	.39	.48	.80	.12	3
1951	.42	.54	.77	.12	3
1952	.42	.54	.77	.12	1
1953	.46	.54	.84	.12	1
1954	.49	.56	.87	.12	1
1955	.49	.59	.83	.12	2
1956	.48	.60	.79	.12	2
1957	.49	.63	.78	.12	2
1958	.54	.66	.82	.12	1
1959	.54	.68	.79	.12	2
1960	.34	.70	.48	.12	3
1961	.56	.71	.79	.12	2
1962	.56	.73	.77	.12	1
1963	.56	.75	.75	.12	2
1964	.56	.77	.73	.13	2
1965	.56	.78	.72	.13	2
1966	.58	.80	.72	.13	2
1967	.63	.84	.75	.13	2
1968	.66	.87	.76	.13	1
1969	.70	.90	.78	.13	1
1970	.84	.93	.90	.13	2
1971	.92	.96	.96	.13	2
1972	1.00	1.00	1.00	.13	2
1973	1.04	1.03	1.01	.13	2
1974	1.04	1.22	.85	.13	2
1975	1.53	1.47	1.04	.13	2
1976	1.52	1.63	.93	.12	3
1977	1.49	1.80	.83	.11	4
1978	1.64	1.95	.84	.11	7
1979	1.87	2.16	.86	.10	6
1980	2.31	2.47	.93	.09	5
1981	2.49	2.78	.90	.09	6
1982	3.04	3.04	1.00	.09	5
1983	3.40	3.22	1.05	.09	1

## B. Tractor-Drawn Harrows

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.36	.46	.77	.10	1
1949	.42	.50	.84	.07	1
1950	.39	.52	.74	.06	2
1951	.41	.58	.72	.06	4
1952	.44	.55	.79	.06	1
1953	.44	.55	.80	.06	2
1954	.50	.56	.90	.06	7
1955	.47	.57	.83	.06	5
1956	.45	.59	.77	.06	5
1957	.47	.61	.77	.06	2

(continued)

Table B.13B (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1958	.56	.63	.89	.06	3
1959	.56	.66	.85	.07	2
1960	.59	.68	.87	.07	2
1961	.59	.69	.85	.07	1
1962	.59	.71	.83	.07	1
1963	.59	.72	.82	.07	1
1964	.59	.73	.81	.08	1
1965	.66	.75	.88	.08	1
1966	.68	.78	.87	.09	1
1967	.69	.80	.86	.09	2
1968	.72	.82	.88	.09	2
1969	.78	.85	.91	.09	2
1970	.87	.89	.98	.09	2
1971	.93	.92	1.01	.09	2
1972	1.00	1.00	1.00	.09	1
1973	1.00	1.03	.97	.09	1
1974	1.06	1.21	.88	.08	1
1975	1.58	1.46	1.09	.09	1
1976	1.63	1.61	1.01	.09	2
1977	1.63	1.72	.95	.09	2
1978	1.86	1.84	1.01	.09	2
1979	2.13	2.07	1.03	.10	2
1980	2.62	2.40	1.09	.10	2
1981	2.62	2.70	.97	.10	6
1982	3.06	2.83	1.08	.10	4
1983	3.18	3.00	1.06	.10	4

## C. Seeders

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.46	.32	1.43	.22	1
1948	.44	.37	1.18	.10	1
1949	.63	.41	1.52	.07	1
1950	.57	.42	1.35	.06	1
1951	.57	.45	1.26	.06	1
1952	.61	.47	1.30	.06	2
1953	.63	.47	1.33	.06	2
1954	.63	.47	1.33	.06	2
1955	.59	.49	1.22	.06	2
1956	.62	.50	1.23	.06	2
1957	.64	.53	1.22	.06	2
1958	.67	.57	1.18	.06	2
1959	.67	.60	1.13	.07	2
1960	.69	.61	1.12	.07	2
1961	.69	.63	1.10	.07	2
1962	.69	.65	1.05	.07	2
1963	.69	.67	1.03	.07	2
1964	.69	.69	1.00	.08	2
1965	.73	.71	1.02	.08	2
1966	.73	.74	.99	.09	2
1967	.78	.77	1.02	.09	2
1968	.81	.81	.99	.09	2
1969	.89	.85	1.04	.09	4
1970	.92	.87	1.05	.09	4

Table B.13C (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1971	.95	.94	1.01	.09	4
1972	1.00	1.00	1.00	.09	2
1973	.99	1.03	.96	.09	2
1974	1.05	1.18	.89	.08	2
1975	1.62	1.37	1.18	.09	1
1976	1.62	1.56	1.04	.09	2
1977	1.62	1.74	.93	.09	1
1978	1.72	1.91	.90	.09	1
1979	1.92	2.07	.93	.10	1
1980	2.22	2.30	.97	.10	1
1981	2.22	2.50	.89	.10	9
1982	2.56	2.66	.96	.10	11
1983	2.55	2.75	.93	.10	8

## D. Manure Spreaders

Year	Sears	PPI	Sears/PPI	Weight	Models
1950	.60	.55	1.09	.06	2
1951	.63	.60	1.05	.06	2
1952	.64	.60	1.06	.06	2
1953	.66	.61	1.08	.06	2
1954	.66	.61	1.08	.06	1
1955	.62	.62	1.00	.06	2
1956	.61	.64	.94	.06	2
1957	.71	.68	1.04	.06	2
1958	.73	.71	1.02	.06	2
1959	.73	.74	.99	.07	1
1960	.77	.74	1.04	.07	1
1961	.77	.76	1.02	.07	2
1962	.74	.76	.97	.07	2
1963	.76	.78	.97	.07	2
1964	.78	.79	.99	.08	2
1965	.78	.80	.98	.08	1
1966	.82	.82	1.00	.09	1
1967	.86	.83	1.03	.09	1
1968	.89	.87	1.02	.09	1
1969	.90	.89	1.01	.09	1
1970	.93	.93	1.00	.09	1
1971	.95	.95	1.00	.09	1
1972	1.00	1.00	1.00	.09	1
1973	1.00	1.04	.96	.09	2
1974	1.08	1.15	.94	.08	1
1975	1.53	1.34	1.14	.09	3
1976	1.56	1.40	1.12	.09	10
1977	1.65	1.56	1.06	.09	11
1978	1.81	1.63	1.11	.09	7
1979	2.08	1.82	1.14	.10	10
1980	2.41	2.06	1.17	.10	8
1981	2.45	2.31	1.06	.10	8
1982	2.82	2.45	1.15	.10	11
1983	2.82	2.51	1.12	.10	8

(continued)

Table B.13 (continued)

## E. Tractor-Drawn Cultivators

Year	Sears	PPI	Sears/PPI	Weight	Models
1949	.44	.44	1.01	.11	2
1950	.43	.44	.96	.10	3
1951	.46	.48	.95	.10	1
1952	.44	.49	.90	.10	1
1953	.48	.49	.97	.10	1
1954	.48	.49	.98	.10	4
1955	.57	.50	1.15	.10	3
1956	.60	.51	1.17	.10	3
1957	.61	.54	1.13	.10	3
1958	.63	.57	1.10	.10	4
1959	.58	.62	.94	.11	3
1960	.58	.64	.90	.11	3
1961	.58	.66	.88	.11	4
1962	.60	.68	.89	.11	2
1963	.60	.70	.86	.11	2
1964	.63	.71	.89	.11	2
1965	.70	.73	.96	.11	2
1966	.73	.76	.96	.11	2
1967	.75	.80	.93	.11	2
1968	.75	.84	.89	.11	2
1969	.76	.88	.86	.11	2
1970	.84	.92	.91	.11	2
1971	.93	.96	.96	.11	2
1972	1.00	1.00	1.00	.11	1
1973	1.00	1.08	.93	.11	1
1974	1.06	1.23	.86	.11	2
1975	1.48	1.44	1.03	.11	1
1976	1.48	1.52	.97	.11	1
1977	1.52	1.61	.94	.10	4
1978	1.81	1.74	1.04	.10	3
1979	2.22	1.86	1.19	.10	2
1980	1.83	2.14	.85	.09	1
1981	2.09	2.47	.85	.09	2
1982	2.22	2.66	.84	.09	2
1983	2.10	2.78	.75	.09	3

## F. Sprayers

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.40	.48	.84	.24	3
1948	.41	.53	.77	.11	3
1949	.43	.55	.78	.07	3
1950	.39	.56	.70	.07	3
1951	.46	.61	.74	.07	3
1952	.51	.63	.80	.07	4
1953	.49	.65	.75	.07	5
1954	.49	.66	.74	.07	4
1955	.50	.66	.75	.07	3
1956	.51	.70	.73	.07	3
1957	.55	.74	.74	.07	3
1958	.57	.75	.77	.07	4

Table B.13F (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1959	.62	.75	.82	.07	3
1960	.70	.76	.92	.08	3
1961	.69	.77	.89	.08	2
1962	.70	.77	.90	.08	2
1963	.70	.78	.90	.08	2
1964	.70	.77	.90	.08	2
1965	.70	.77	.90	.07	2
1966	.73	.78	.94	.07	2
1967	.75	.82	.92	.06	2
1968	.76	.88	.86	.06	2
1969	.81	.91	.89	.07	2
1970	.87	.95	.91	.07	2
1971	.89	.96	.93	.07	2
1972	1.00	1.00	1.00	.07	2
1973	1.20	1.04	1.15	.07	2
1974	1.30	1.17	1.11	.07	2
1975	1.54	1.28	1.21	.07	2
1976	1.75	1.39	1.26	.08	1
1977	1.88	1.47	1.28	.08	12
1978	2.05	1.48	1.38	.09	8
1979	2.28	1.55	1.47	.09	6
1980	2.57	1.78	1.45	.10	6
1981	2.67	1.94	1.38	.10	8
1982	2.90	2.11	1.37	.10	9
1983	3.19	2.15	1.48	.10	9

## G. Tractor-Mounted Mowers

Year	Sears	PPI	Sears/PPI	Weight	Models
1949	.61	.41	1.49	.37	1
1950	.51	.42	1.22	.36	1
1951	.51	.43	1.17	.36	1
1952	.54	.45	1.21	.36	1
1953	.55	.45	1.21	.36	1
1954	.55	.46	1.20	.36	1
1955	.53	.47	1.13	.36	1
1956	.57	.48	1.19	.36	2
1957	.57	.50	1.13	.36	2
1958	.66	.53	1.23	.35	1
1959	.62	.57	1.09	.33	1
1960	.65	.58	1.12	.32	2
1961	.65	.59	1.10	.31	2
1962	.65	.61	1.08	.29	2
1963	.65	.63	1.04	.27	2
1964	.65	.65	1.00	.26	2
1965	.65	.67	.97	.24	2
1966	.69	.71	.97	.22	2
1967	.71	.75	.94	.22	2
1968	.78	.78	1.00	.23	1
1969	.81	.84	.96	.23	1
1970	.89	.89	1.00	.24	1
1971	.99	.95	1.05	.25	3

(continued)

Table B.13G (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1972	1.00	1.00	1.00	.25	3
1973	1.11	1.02	1.08	.26	2
1974	1.11	1.12	.99	.27	1
1975	1.51	1.22	1.24	.27	2
1976	1.51	1.25	1.21	.27	4
1977	1.61	1.36	1.18	.27	4
1978	1.63	1.50	1.09	.27	4
1979	1.93	1.70	1.14	.27	4
1980	2.04	1.90	1.08	.26	4
1981	2.04	2.25	.91	.26	6
1982	2.15	2.48	.86	.26	6
1983	2.19	2.60	.84	.26	3

## H. Portable Farm Elevators

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.58	.45	1.30	.13	1
1949	.59	.49	1.21	.09	1
1950	.60	.48	1.25	.08	1
1951	.60	.54	1.10	.08	1
1952	.61	.55	1.10	.08	1
1953	.61	.55	1.10	.08	1
1954	.56	.56	1.01	.08	1
1955	.59	.57	1.04	.08	1
1956	.62	.59	1.05	.08	1
1957	.67	.61	1.10	.08	2
1958	.67	.64	1.05	.09	2
1959	.64	.66	.97	.09	1
1960	.64	.68	.95	.10	2
1961	.64	.69	.93	.10	2
1962	.63	.71	.90	.11	1
1963	.64	.72	.90	.11	2
1964	.81	.73	1.10	.11	2
1965	.81	.75	1.09	.12	2
1966	.85	.77	1.10	.12	2
1967	.88	.80	1.10	.13	2
1968	.88	.83	1.06	.13	2
1969	.87	.87	.99	.13	3
1970	.89	.91	.98	.13	3
1971	.95	.96	.99	.13	3
1972	1.00	1.00	1.00	.13	2
1973	1.04	1.06	.98	.13	2
1974	1.08	1.30	.83	.13	2
1975	1.74	1.60	1.09	.13	2
1976	1.87	1.67	1.12	.13	4
1977	2.17	1.81	1.20	.13	4
1978	2.53	2.01	1.25	.12	4
1979	3.09	2.29	1.35	.12	3
1980	3.57	2.53	1.41	.12	1
1981	3.81	2.78	1.37	.12	1
1982	4.40	2.96	1.49	.12	1
1983	4.76	3.09	1.54	.12	1

Table B.13 (continued)

## I. Poultry Brooders

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.77	.50	1.54	.27	4
1948	.75	.55	1.37	.13	4
1949	.87	.60	1.46	.08	2
1950	.83	.63	1.32	.08	2
1951	.95	.71	1.34	.08	3
1952	.96	.71	1.35	.08	2
1953	.97	.71	1.37	.08	2
1954	.97	.76	1.28	.08	3
1955	.89	.75	1.19	.08	3
1956	.79	.73	1.08	.08	3
1957	.86	.76	1.14	.08	2
1958	.83	.78	1.07	.08	2
1959	.83	.80	1.04	.08	2
1960	.83	.80	1.03	.08	5
1961	.78	.81	.97	.08	5
1962	.81	.82	.98	.08	2
1963	.81	.81	1.00	.08	2
1964	.81	.82	.99	.08	2
1965	.82	.83	.99	.08	2
1966	.83	.84	.99	.08	1
1967	.84	.86	.97	.07	1
1968	.89	.89	1.00	.07	2
1969	.89	.91	.98	.06	3
1970	.94	.94	1.00	.05	3
1971	.96	.98	.98	.05	3
1972	1.00	1.00	1.00	.04	2
1973	1.01	1.02	.99	.04	2
1974	1.06	1.09	.97	.03	2
1975	1.43	1.14	1.25	.03	2
1976	1.55	1.26	1.23	.03	7
1977	1.65	1.34	1.23	.03	7
1978	1.73	1.44	1.21	.03	7
1979	2.14	1.57	1.36	.04	7
1980	2.42	1.73	1.40	.04	6
1981	2.56	1.96	1.31	.04	6
1982	2.85	2.11	1.35	.04	6
1983	3.06	2.17	1.41	.04	6

## J. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	.50	.38	1.33	1.00	8
1948	.50	.43	1.16	1.00	12
1949	.54	.47	1.16	1.00	13
1950	.50	.48	1.05	1.00	18
1951	.52	.52	1.01	1.00	19
1952	.54	.53	1.03	1.00	15
1953	.56	.53	1.05	1.00	17
1954	.56	.54	1.05	1.00	24

(continued)

**Table B.13J** (continued)

Year	Alternative	Official	Alternative/Official	Weight	Models
1955	.56	.55	1.02	1.00	22
1956	.57	.56	1.01	1.00	23
1957	.60	.59	1.01	1.00	20
1958	.65	.62	1.04	1.00	21
1959	.63	.65	.97	1.00	17
1960	.61	.66	.92	1.00	23
1961	.65	.68	.96	1.00	22
1962	.65	.69	.94	1.00	15
1963	.65	.71	.93	1.00	17
1964	.68	.72	.94	1.00	17
1965	.69	.74	.94	1.00	16
1966	.72	.77	.94	1.00	15
1967	.75	.80	.94	1.00	16
1968	.78	.83	.94	1.00	15
1969	.81	.87	.93	1.00	19
1970	.88	.91	.97	1.00	20
1971	.95	.95	1.00	1.00	22
1972	1.00	1.00	1.00	1.00	16
1973	1.05	1.04	1.01	1.00	16
1974	1.09	1.19	.92	1.00	15
1975	1.55	1.36	1.14	1.00	16
1976	1.59	1.46	1.09	1.00	34
1977	1.67	1.58	1.06	1.00	49
1978	1.82	1.71	1.06	1.00	43
1979	2.13	1.90	1.12	1.00	41
1980	2.35	2.14	1.10	1.00	54
1981	2.43	2.42	1.00	1.00	52
1982	2.72	2.61	1.04	1.00	55
1983	2.81	2.73	1.03	1.00	43



**Table B.14** Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 25, Construction Machinery, Except Tractors

## A. Post-Hole Diggers

Year	Sears	PPI	Sears/PPI	Weight	Models
1956	.92	.59	1.57	.12	1
1957	.92	.63	1.47	.12	1
1958	.92	.63	1.45	.12	2
1959	.93	.65	1.42	.12	2
1960	.93	.67	1.38	.12	2
1961	.93	.69	1.36	.12	2
1962	.91	.70	1.31	.12	2
1963	.95	.70	1.36	.12	2
1964	.94	.72	1.30	.13	1
1965	.94	.73	1.29	.13	2
1966	.96	.75	1.28	.14	2
1967	.98	.76	1.29	.14	2
1968	.95	.80	1.19	.15	3
1969	.97	.85	1.15	.15	2
1970	.98	.91	1.08	.16	3
1971	1.00	.96	1.04	.16	3
1972	1.00	1.00	1.00	.17	1
1973	1.04	1.05	.99	.17	1
1974	1.04	1.16	.90	.18	1
1975	1.23	1.24	.99	.18	3
1976	1.23	1.47	.84	.17	3
1977	1.23	1.75	.70	.17	2
1978	1.37	1.96	.70	.16	2
1979	1.56	2.11	.74	.15	2
1980	1.82	2.40	.76	.14	2
1981	1.81	2.75	.66	.14	2
1982	2.00	3.11	.64	.14	3
1983	2.10	3.31	.64	.14	3

## B. Roto Spaders

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.96	.46	2.06	.13	1
1949	.95	.48	1.98	.13	1
1950	.95	.49	1.92	.13	1
1951	.95	.53	1.80	.13	1
1952	.94	.53	1.79	.13	1
1953	.94	.54	1.74	.13	1
1954	.94	.55	1.70	.13	1
1955	.87	.56	1.56	.12	1
1956	.92	.59	1.56	.12	3
1957	.95	.63	1.52	.12	3
1958	.95	.63	1.50	.12	3
1959	.85	.65	1.30	.12	1
1960	.89	.67	1.32	.12	2
1961	.81	.69	1.19	.12	2
1962	.82	.70	1.18	.12	4
1963	.82	.70	1.17	.12	3
1964	.81	.72	1.13	.13	4

(continued)

Table B.14B (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1965	.82	.73	1.12	.13	4
1966	.83	.75	1.10	.14	5
1967	.85	.76	1.11	.14	2
1968	.88	.80	1.11	.15	4
1969	.98	.85	1.16	.15	6
1970	.98	.91	1.08	.16	6
1971	.98	.96	1.02	.16	6
1972	1.00	1.00	1.00	.17	6
1973	1.03	1.05	.98	.17	6
1974	1.11	1.16	.96	.18	7
1975	1.42	1.24	1.14	.18	5
1976	1.70	1.36	1.26	.17	10
1977	1.69	1.75	.97	.17	5
1978	1.81	1.96	.93	.16	4
1979	2.10	2.11	1.00	.15	4
1980	2.14	2.40	.89	.07	4
1981	2.14	2.75	.78	.00	2

## C. Centrifugal Pumps

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.98	.41	2.40	.16	2
1948	.89	.45	1.98	.13	2
1949	.88	.49	1.77	.13	1
1950	.82	.52	1.59	.13	2
1951	.88	.60	1.47	.13	2
1952	.89	.60	1.50	.13	2
1953	.89	.61	1.46	.13	2
1954	.94	.61	1.54	.13	2
1955	.94	.62	1.52	.12	6
1956	.86	.70	1.22	.12	8
1957	.87	.76	1.14	.12	8
1958	.84	.79	1.06	.12	10
1959	.82	.82	.99	.12	12
1960	.78	.80	.98	.12	12
1961	.78	.79	.99	.12	11
1962	.79	.79	1.00	.12	13
1963	.79	.76	1.04	.12	13
1964	.78	.76	1.03	.13	12
1965	.77	.77	1.01	.13	7
1966	.77	.79	.97	.14	8
1967	.80	.81	.98	.14	8
1968	.80	.82	.97	.15	3
1969	.85	.84	1.01	.15	8
1970	.95	.91	1.05	.16	7
1971	1.00	.97	1.03	.16	5
1972	1.00	1.00	1.00	.17	5
1973	1.00	1.01	.99	.17	5
1974	1.04	1.23	.85	.18	5
1975	1.25	1.42	.88	.18	9
1976	1.35	1.51	.89	.17	9

Table B.14C (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1977	1.35	1.63	.83	.17	6
1978	1.45	1.77	.82	.16	6
1979	1.65	1.93	.85	.15	6
1980	1.79	2.13	.84	.14	6
1981	1.96	2.30	.85	.14	6
1982	1.96	2.32	.85	.14	7
1983	2.05	2.31	.89	.14	4

## D. Stationary Air Compressors

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.81	.25	3.29	.16	3
1948	.84	.27	3.08	.13	3
1949	.73	.29	2.53	.13	6
1950	.68	.30	2.29	.13	5
1951	.82	.34	2.41	.13	6
1952	.70	.34	2.05	.13	6
1953	.81	.36	2.28	.13	7
1954	.82	.37	2.24	.13	7
1955	.87	.40	2.16	.12	6
1956	.87	.46	1.89	.12	3
1957	.93	.49	1.91	.12	6
1958	.97	.53	1.85	.12	6
1959	1.05	.57	1.83	.12	6
1960	1.05	.58	1.82	.12	3
1961	1.05	.58	1.83	.12	6
1962	.98	.58	1.70	.12	3
1963	.78	.58	1.33	.12	3
1964	.78	.62	1.27	.13	7
1965	.81	.69	1.19	.13	3
1966	.88	.76	1.17	.14	10
1967	.88	.79	1.11	.14	7
1968	.87	.83	1.05	.15	8
1969	.89	.89	.99	.15	10
1970	.95	.93	1.02	.16	8
1971	1.00	.97	1.03	.16	8
1972	1.00	1.00	1.00	.17	8
1973	1.00	1.04	.97	.17	8
1974	1.02	1.21	.84	.18	11
1975	1.14	1.48	.77	.18	3
1976	1.16	1.52	.77	.17	4
1977	1.21	1.68	.72	.17	3
1978	1.28	1.92	.67	.16	3
1979	1.37	2.13	.64	.15	3
1980	1.41	2.36	.60	.14	3
1981	1.78	2.46	.72	.14	3
1982	1.95	2.53	.77	.14	6
1983	2.11	2.51	.84	.14	3

(continued)

Table B.14 (continued)

## E. Portable Concrete Mixers

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.55	.51	1.09	.56	1
1948	.60	.53	1.12	.47	1
1949	.62	.56	1.12	.47	2
1950	.62	.57	1.08	.47	3
1951	.63	.62	1.01	.47	3
1952	.65	.62	1.04	.47	3
1953	.67	.59	1.14	.47	3
1954	.67	.58	1.16	.47	3
1955	.66	.58	1.14	.44	3
1956	.69	.61	1.12	.42	3
1957	.72	.65	1.12	.42	3
1958	.72	.68	1.06	.41	2
1959	.75	.70	1.07	.41	2
1960	.76	.71	1.07	.41	1
1961	.76	.70	1.09	.40	2
1962	.75	.71	1.06	.40	2
1963	.73	.71	1.03	.39	2
1964	.72	.74	.98	.36	2
1965	.72	.75	.96	.34	2
1966	.74	.78	.95	.32	2
1967	.75	.81	.92	.29	2
1968	.84	.84	.99	.26	2
1969	.86	.87	.99	.23	2
1970	.97	.94	1.03	.20	2
1971	.99	.99	1.00	.18	2
1972	1.00	1.00	1.00	.15	2
1973	1.09	1.04	1.04	.13	2
1974	1.15	1.16	.99	.10	2
1975	1.48	1.23	1.20	.11	3
1976	1.41	1.29	1.09	.14	3
1977	1.62	1.35	1.20	.17	3
1978	1.73	1.38	1.26	.22	3
1979	2.06	1.51	1.37	.27	2
1980	2.19	1.71	1.29	.36	2
1981	2.39	1.71	1.40	.42	2
1982	2.62	1.90	1.38	.42	3
1983	2.88	1.96	1.47	.42	2

## F. Differential Chain Hoists

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.47	.42	1.12	.13	2
1949	.50	.44	1.13	.13	2
1950	.46	.46	1.00	.13	2
1951	.54	.52	1.03	.13	2
1952	.52	.52	.99	.13	2
1953	.54	.55	.99	.13	2
1954	.55	.56	.99	.13	2
1955	.56	.58	.97	.12	2
1956	.56	.62	.91	.12	2
1957	.63	.68	.92	.12	2
1958	.69	.71	.97	.12	2

Table B.14F (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1959	.75	.75	.99	.12	2
1960	.77	.76	1.02	.12	2
1961	.77	.76	1.02	.12	2
1962	.79	.76	1.05	.12	2
1963	.76	.76	1.01	.12	2
1964	.76	.76	1.01	.13	2
1965	.76	.76	1.01	.13	2
1966	.76	.78	.97	.14	2
1967	.85	.80	1.06	.14	2
1968	.89	.82	1.08	.15	2
1969	.95	.83	1.15	.15	2
1970	1.00	.89	1.12	.16	2
1971	1.00	.97	1.03	.16	2
1972	1.00	1.00	1.00	.17	2
1973	1.00	1.05	.95	.17	2
1974	1.03	1.18	.88	.18	2
1975	1.29	1.37	.94	.18	2
1976	1.34	1.40	.96	.17	2
1977	1.34	1.50	.89	.17	2
1978	1.56	1.57	1.00	.16	3
1979	1.59	1.67	.96	.15	3
1980	1.69	1.86	.91	.14	3
1981	1.69	2.10	.81	.14	3
1982	1.91	2.22	.86	.14	3
1983	2.10	2.23	.94	.14	3

G. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	.69	.42	1.65	1.00	6
1948	.71	.45	1.58	1.00	9
1949	.71	.47	1.51	1.00	12
1950	.69	.49	1.42	1.00	13
1951	.74	.54	1.36	1.00	14
1952	.73	.54	1.34	1.00	14
1953	.76	.54	1.41	1.00	15
1954	.77	.54	1.43	1.00	15
1955	.76	.55	1.39	1.00	18
1956	.77	.59	1.30	1.00	20
1957	.81	.63	1.28	1.00	23
1958	.82	.66	1.24	1.00	25
1959	.84	.69	1.21	1.00	25
1960	.85	.70	1.21	1.00	22
1961	.84	.69	1.21	1.00	25
1962	.83	.70	1.18	1.00	26
1963	.80	.70	1.14	1.00	25
1964	.79	.72	1.10	1.00	28
1965	.79	.74	1.08	1.00	20
1966	.81	.77	1.06	1.00	29
1967	.83	.79	1.06	1.00	23
1968	.87	.82	1.06	1.00	22
1969	.91	.85	1.07	1.00	30

(continued)

Table B.14G (continued)

Year	Alternative	Official	Alternative/Official	Weight	Models
1970	.97	.92	1.06	1.00	28
1971	.99	.97	1.03	1.00	26
1972	1.00	1.00	1.00	1.00	24
1973	1.02	1.04	.98	1.00	24
1974	1.06	1.18	.90	1.00	28
1975	1.29	1.33	.97	1.00	25
1976	1.36	1.43	.95	1.00	31
1977	1.39	1.62	.86	1.00	21
1978	1.52	1.76	.86	1.00	21
1979	1.70	1.91	.89	1.00	20
1980	1.82	2.14	.85	1.00	20
1981	1.96	2.28	.86	1.00	18
1982	2.14	2.47	.87	1.00	22
1983	2.31	2.52	.92	1.00	15

**Table B.15** Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 27, Service Industry Machinery

## A. Gas Warm Air Furnaces

Year	Sears	PPI	Sears/PPI	Weight	Models
1951	1.06	1.09	.97	.22	2
1952	1.08	1.06	1.02	.18	1
1953	1.12	1.07	1.04	.15	2
1954	1.12	1.05	1.07	.15	3
1955	1.05	1.04	1.01	.15	2
1956	1.14	1.08	1.06	.15	2
1957	1.14	1.08	1.05	.15	2
1958	1.14	1.05	1.09	.15	2
1959	1.07	1.05	1.03	.14	3
1960	1.08	1.01	1.07	.14	3
1961	1.04	.92	1.14	.13	6
1962	.95	.88	1.08	.13	5
1963	.95	.86	1.11	.12	5
1964	.90	.85	1.05	.12	4
1965	.80	.84	.96	.12	4
1966	.81	.85	.96	.12	4
1967	.81	.85	.95	.11	2
1968	.78	.89	.87	.11	2
1969	.82	.91	.91	.12	2
1970	.83	.97	.86	.12	2
1971	.93	.99	.94	.12	2
1972	1.00	1.00	1.00	.12	2
1973	.98	1.01	.97	.12	2
1974	1.01	1.09	.92	.12	2
1975	1.43	1.21	1.18	.13	4
1976	1.47	1.28	1.15	.13	4
1977	1.47	1.35	1.09	.13	4
1978	1.57	1.43	1.09	.14	4
1979	1.75	1.58	1.11	.14	4
1980	1.80	1.78	1.01	.14	4
1981	2.12	1.99	1.07	.14	4
1982	2.05	2.15	.96	.14	4
1983	2.29	2.21	1.04	.14	4

## B. Gas Hot Water Heaters

Year	Sears Hedonic	PPI	Hedonic/PPI	Weight	Models
1947	1.34	.90	1.48	.27	2
1948	1.42	.97	1.46	.20	5
1949	1.45	1.04	1.40	.16	5
1950	1.36	1.03	1.33	.13	5
1951	1.54	1.12	1.38	.10	3
1952	1.64	1.10	1.49	.08	3
1953	1.68	1.08	1.56	.07	4
1954	1.44	1.05	1.37	.07	4
1955	1.38	1.06	1.31	.07	7
1956	1.33	1.05	1.27	.07	7
1957	1.34	1.04	1.29	.07	9
1958	1.25	.99	1.26	.07	6

(continued)

Table B.15B (continued)

Year	Sears Hedonic	PPI	Hedonic/PPI	Weight	Models
1959	1.15	.97	1.19	.06	8
1960	1.13	.89	1.28	.06	8
1961	1.05	.81	1.29	.06	8
1962	.96	.80	1.19	.05	6
1963	.96	.82	1.16	.05	6
1964	.94	.80	1.18	.06	6
1965	.87	.80	1.08	.06	4
1966	.89	.82	1.09	.06	6
1967	.87	.80	1.08	.06	6
1968	.82	.81	1.02	.06	10
1969	.89	.84	1.06	.07	11
1970	.90	.91	.99	.07	11
1971	1.00	.95	1.05	.07	12
1972	1.00	1.00	1.00	.06	12
1973	1.01	1.02	.99	.07	11
1974	1.00	1.06	.95	.07	11
1975	1.24	1.22	1.02	.07	13
1976	1.35	1.40	.96	.06	14
1977	1.49	1.43	1.04	.06	20
1978	1.55	1.49	1.04	.05	25
1979	1.71	1.61	1.06	.05	20
1980	1.72	1.76	.98	.04	24
1981	1.72	1.86	.92	.04	19
1982	1.72	1.99	.86	.04	28
1983	1.75	2.08	.84	.04	29

## C. Hand Electric Sanders

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.79	.81	.98	.10	1
1948	.94	.81	1.16	.07	1
1949	1.02	.81	1.25	.06	1
1950	.96	.84	1.15	.05	1
1951	1.02	.91	1.11	.04	1
1952	1.00	.91	1.09	.03	2
1953	1.03	.93	1.11	.03	2
1954	1.04	.96	1.09	.03	2
1955	1.04	1.00	1.05	.03	3
1956	1.08	1.04	1.04	.03	3
1957	1.10	1.04	1.06	.03	3
1958	1.10	1.05	1.05	.03	3
1959	1.04	1.09	.95	.03	3
1960	1.07	1.08	.99	.03	4
1961	1.07	1.02	1.04	.03	4
1962	1.06	1.13	.94	.03	3
1963	.92	1.13	.82	.03	3
1964	.84	1.13	.75	.04	3
1965	.93	1.10	.85	.05	4
1966	.96	1.07	.90	.06	4
1967	.96	1.13	.85	.06	3
1968	.99	1.16	.85	.06	4
1969	1.00	1.14	.88	.06	4
1970	1.00	1.05	.96	.07	3
1971	1.00	1.01	.99	.06	3



Table B.15C (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1972	1.00	1.00	1.00	.06	6
1973	.99	1.00	.99	.06	5
1974	.95	1.04	.91	.06	6
1975	1.03	1.16	.88	.06	6
1976	.79	1.19	.67	.07	4
1977	.76	1.24	.61	.07	4
1978	.89	1.36	.65	.07	4
1979	.95	1.43	.67	.08	4
1980	.95	1.54	.62	.08	5
1981	1.10	1.64	.67	.08	2
1982	1.10	1.77	.62	.08	3
1983	1.10	1.81	.61	.08	1

## D. Compressors, All Refrigerants Except Ammonia, Open-Type, Over 10 hp

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	1.64	.34	4.75	.13	9
1948	1.63	.38	4.34	.10	9
1949	1.63	.40	4.03	.08	9
1950	1.53	.41	3.73	.06	9
1951	1.61	.46	3.48	.05	9
1952	1.62	.46	3.51	.04	10
1953	1.59	.48	3.29	.03	10
1954	1.50	.49	3.05	.03	7
1955	1.38	.51	2.70	.03	7
1956	1.41	.57	2.49	.03	10
1957	1.28	.61	2.09	.03	10
1958	1.25	.64	1.96	.03	8
1959	1.21	.67	1.81	.04	8
1960	1.33	.67	1.99	.04	9
1961	1.20	.66	1.80	.04	10
1962	1.12	.66	1.69	.04	10
1963	1.06	.67	1.59	.04	10
1964	1.03	.69	1.50	.04	10
1965	.85	.73	1.16	.03	9
1966	.85	.77	1.11	.03	9
1967	.86	.81	1.06	.03	8
1968	.83	.84	.98	.03	8
1969	.85	.88	.96	.03	14
1970	.88	.93	.96	.03	12
1971	.96	.98	.98	.03	13
1972	1.00	1.00	1.00	.03	13
1973	1.10	1.03	1.07	.03	9
1974	1.29	1.23	1.04	.03	9
1975	1.38	1.51	.91	.03	8
1976	1.47	1.60	.92	.03	8
1977	1.45	1.71	.85	.03	6
1978	1.46	1.84	.79	.03	6
1979	1.59	2.01	.79	.03	7
1980	1.67	2.32	.72	.03	7
1981	1.80	2.62	.69	.03	5
1982	1.89	2.80	.67	.03	5
1983	1.70	2.80	.61	.03	9

(continued)

Table B.15 (continued)

## E. Compressors and Compressor Units, Ammonia Refrigerant

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	.43	.34	1.24	.13	15
1948	.44	.38	1.18	.10	15
1949	.49	.40	1.22	.08	16
1950	.51	.41	1.25	.06	15
1951	.54	.46	1.18	.05	15
1952	.54	.46	1.17	.04	14
1953	.54	.48	1.12	.03	14
1954	.54	.49	1.10	.03	12
1955	.52	.51	1.01	.03	11
1956	.50	.57	.88	.03	13
1957	.53	.61	.87	.03	13
1958	.53	.64	.84	.03	11
1959	.52	.67	.78	.04	10
1960	.58	.67	.87	.04	10
1961	.60	.66	.91	.04	11
1962	.59	.66	.90	.04	11
1963	.61	.67	.92	.04	9
1964	.60	.69	.88	.04	8
1965	.62	.73	.85	.03	8
1966	.63	.77	.82	.03	9
1967	.58	.81	.72	.03	9
1968	.60	.84	.72	.03	9
1969	.60	.88	.68	.03	9
1970	.63	.93	.68	.03	9
1971	.77	.98	.79	.03	10
1972	1.00	1.00	1.00	.03	10
1973	1.21	1.03	1.18	.03	9
1974	1.34	1.23	1.09	.03	4
1975	1.64	1.51	1.09	.03	4
1976	1.77	1.60	1.11	.03	3
1977	1.87	1.71	1.10	.03	3
1978	1.96	1.84	1.06	.03	3
1979	2.11	2.01	1.05	.03	3
1980	2.36	2.32	1.02	.03	3
1981	2.55	2.62	.98	.03	4
1982	2.53	2.80	.90	.03	4
1983	2.66	2.80	.95	.03	4

## F. Condensing Units, Air Cooled, Hermetic Type

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	.72	.34	2.09	.13	4
1948	.72	.38	1.91	.10	4
1949	.66	.40	1.64	.08	4
1950	.68	.41	1.65	.06	4
1951	.70	.46	1.50	.05	4
1952	.71	.46	1.54	.04	5
1953	.67	.48	1.40	.03	7
1954	.80	.49	1.63	.03	6
1955	.80	.51	1.57	.03	6
1956	.84	.57	1.48	.03	9

Table B.15F (continued)

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1957	.78	.61	1.28	.03	10
1958	.76	.64	1.19	.03	10
1959	.72	.67	1.07	.04	9
1960	.69	.67	1.03	.04	9
1961	.69	.66	1.05	.04	9
1962	.71	.66	1.07	.04	9
1963	.80	.67	1.21	.04	9
1964	.76	.69	1.11	.04	9
1965	.76	.73	1.04	.03	10
1966	.78	.77	1.01	.03	10
1967	.78	.81	.96	.03	10
1968	.77	.84	.92	.03	9
1969	.79	.88	.89	.03	7
1970	.82	.93	.89	.03	8
1971	.89	.98	.91	.03	9
1972	1.00	1.00	1.00	.03	8
1973	1.14	1.03	1.11	.03	4
1974	1.24	1.23	1.01	.03	6
1975	1.49	1.51	.99	.03	7
1976	1.61	1.60	1.01	.03	7
1977	1.63	1.71	.95	.03	7
1978	1.70	1.84	.93	.03	7
1979	1.77	2.01	.88	.03	7
1980	1.89	2.32	.82	.03	7
1981	2.05	2.62	.78	.03	7
1982	2.22	2.80	.79	.03	7
1983	2.35	2.80	.84	.03	6

## G. Condensing Units, Water Cooled, Open Type

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	.69	.34	1.99	.13	16
1948	.70	.38	1.86	.10	16
1949	.68	.40	1.69	.08	18
1950	.65	.41	1.60	.06	18
1951	.72	.46	1.57	.05	18
1952	.69	.46	1.49	.04	18
1953	.71	.48	1.47	.03	18
1954	.67	.49	1.36	.03	17
1955	.71	.51	1.38	.03	17
1956	.72	.57	1.26	.03	19
1957	.70	.61	1.14	.03	19
1958	.75	.64	1.19	.03	13
1959	.72	.67	1.08	.04	13
1960	.71	.67	1.05	.04	14
1961	.70	.66	1.05	.04	15
1962	.68	.66	1.04	.04	15
1963	.67	.67	1.01	.04	15
1964	.67	.69	.98	.04	15
1965	.67	.73	.92	.03	15
1966	.74	.77	.96	.03	15
1967	.74	.81	.92	.03	14

(continued)

Table B.15G (continued)

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1968	.75	.84	.89	.03	14
1969	.83	.88	.94	.03	14
1970	.87	.93	.94	.03	15
1971	.88	.98	.90	.03	15
1972	1.00	1.00	1.00	.03	15
1973	1.15	1.03	1.12	.03	15
1974	1.42	1.23	1.15	.03	15
1975	1.52	1.51	1.00	.03	15
1976	1.77	1.60	1.11	.03	6
1977	1.94	1.71	1.14	.03	6
1978	1.98	1.84	1.08	.03	6
1979	2.09	2.01	1.04	.03	6
1980	2.28	2.32	.98	.03	6
1981	2.37	2.62	.90	.03	6
1982	2.52	2.80	.90	.03	6
1983	2.46	2.80	.88	.03	6

## H. Condensing Units, Water Cooled, Hermetic Type

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1952	.75	.46	1.62	.04	8
1953	.80	.48	1.65	.03	8
1954	.72	.49	1.46	.03	8
1955	.74	.51	1.45	.03	8
1956	.76	.57	1.33	.03	8
1957	.83	.61	1.35	.03	8
1958	.74	.64	1.17	.03	8
1959	.68	.67	1.01	.04	8
1960	.68	.67	1.01	.04	8
1961	.69	.66	1.04	.04	9
1962	.75	.66	1.14	.04	9
1963	.75	.67	1.13	.04	9
1964	.73	.69	1.07	.04	9
1965	.74	.73	1.01	.03	9
1966	.78	.77	1.01	.03	9
1967	.84	.81	1.04	.03	9
1968	.80	.84	.95	.03	9
1969	.82	.88	.93	.03	9
1970	.86	.93	.93	.03	9
1971	.91	.98	.93	.03	9
1972	1.00	1.00	1.00	.03	9
1973	1.04	1.03	1.01	.03	6
1974	1.08	1.23	.88	.03	3
1975	1.59	1.51	1.05	.03	2
1976	1.64	1.60	1.02	.03	4
1977	1.76	1.71	1.03	.03	4
1978	1.79	1.84	.97	.03	4
1979	1.85	2.01	.92	.03	6
1980	2.02	2.32	.87	.03	6
1981	2.15	2.62	.82	.03	6
1982	2.50	2.80	.89	.03	6
1983	2.49	2.80	.89	.03	6

Table B.15 (continued)

## I. Automatic Washing Machines

Year	CR	PPI	CR/PPI	Weight	Models
1948	2.04	.94	2.18	.17	4
1949	2.00	.95	2.10	.14	4
1950	1.96	.95	2.06	.11	4
1951	1.89	1.03	1.83	.09	4
1952	1.82	1.02	1.78	.07	3
1953	1.75	1.00	1.75	.06	5
1954	1.69	.99	1.72	.06	5
1955	1.62	.96	1.69	.06	5
1956	1.56	.98	1.59	.06	7
1957	1.49	1.02	1.46	.06	6
1958	1.43	1.01	1.42	.06	7
1959	1.37	1.00	1.37	.06	5
1960	1.31	.99	1.33	.06	5
1961	1.17	.98	1.19	.06	7
1962	1.04	.96	1.08	.06	7
1963	1.01	.95	1.07	.06	6
1964	.99	.95	1.04	.06	6
1965	.99	.93	1.07	.06	6
1966	.98	.93	1.06	.06	9
1967	.98	.94	1.05	.06	8
1968	.97	.96	1.01	.05	10
1969	.96	.97	.99	.05	7
1970	.99	.99	1.00	.04	9
1971	1.00	.99	1.01	.04	10
1972	1.00	1.00	1.00	.03	8
1973	1.00	1.00	1.00	.03	8
1974	.96	1.10	.87	.03	8
1975	1.19	1.24	.96	.03	8
1976	1.25	1.35	.92	.03	10
1977	1.31	1.39	.94	.03	9
1978	1.37	1.45	.95	.03	17
1979	1.44	1.52	.95	.03	18
1980	1.57	1.62	.97	.03	17
1981	1.68	1.73	.97	.03	34
1982	1.72	1.84	.94	.03	30
1983	1.75	1.90	.92	.03	27

## J. Electric Clothes Dryers

Year	CR	PPI	CR/PPI	Weight	Models
1951	2.02	.96	2.11	.09	1
1952	2.02	.96	2.11	.07	1
1953	2.02	.95	2.13	.06	1
1954	2.02	.94	2.15	.06	1
1955	1.99	.93	2.14	.06	1
1956	1.96	.95	2.07	.06	1
1957	1.93	.98	1.97	.06	1
1958	1.81	.98	1.85	.06	1
1959	1.70	1.00	1.71	.06	1
1960	1.60	.97	1.65	.06	1

(continued)

Table B.15J (continued)

Year	CR	PP1	CR/PP1	Weight	Models
1961	1.50	.95	1.58	.06	1
1962	1.43	.94	1.52	.06	2
1963	1.35	.94	1.44	.06	2
1964	1.28	.93	1.38	.06	2
1965	1.22	.90	1.36	.06	2
1966	1.16	.90	1.28	.06	2
1967	1.13	.92	1.23	.06	1
1968	1.10	.94	1.17	.05	1
1969	1.08	.96	1.12	.05	2
1970	1.05	1.00	1.05	.04	2
1971	1.02	1.01	1.01	.04	2
1972	1.00	1.00	1.00	.03	1
1973	.98	1.02	.97	.03	1
1974	.97	1.11	.87	.03	1
1975	.99	1.24	.80	.03	2
1976	.92	1.35	.68	.03	1
1977	.86	1.41	.61	.03	3
1978	.80	1.48	.54	.03	3
1979	.74	1.58	.47	.03	3
1980	.69	1.76	.39	.03	1
1981	.64	1.90	.34	.03	5
1982	.59	2.05	.29	.03	6
1983	.61	2.14	.29	.03	4

## K. Refrigerators

Year	CR	PP1	CR/PP1	Weight	Models
1949	4.19	1.45	2.88	.35	3
1950	3.72	1.47	2.52	.29	6
1951	3.30	1.52	2.17	.22	3
1952	2.91	1.52	1.91	.18	4
1953	2.57	1.53	1.67	.16	9
1954	2.27	1.53	1.48	.16	9
1955	2.15	1.43	1.50	.16	13
1956	2.05	1.39	1.47	.16	10
1957	1.95	1.34	1.46	.16	9
1958	1.88	1.30	1.44	.16	11
1959	1.81	1.28	1.41	.18	9
1960	1.60	1.20	1.33	.19	8
1961	1.48	1.13	1.31	.20	8
1962	1.38	1.09	1.26	.21	11
1963	1.32	1.02	1.28	.22	9
1964	1.26	.99	1.27	.23	10
1965	1.12	.97	1.15	.24	9
1966	1.00	.95	1.05	.26	9
1967	.89	.95	.94	.25	7
1968	.80	.98	.81	.23	9
1969	.86	1.00	.86	.23	21
1970	.92	1.01	.92	.23	26
1971	.96	1.03	.94	.21	22
1972	1.00	1.00	1.00	.19	21
1973	1.04	1.00	1.04	.19	14
1974	1.08	1.08	1.00	.19	13

Table B.15K (continued)

Year	CR	PPI	CR/PPI	Weight	Models
1975	1.13	1.25	.90	.18	18
1976	1.18	1.34	.88	.17	23
1977	1.24	1.40	.88	.16	17
1978	1.29	1.47	.88	.15	20
1979	1.35	1.52	.89	.14	17
1980	1.42	1.62	.88	.13	18
1981	1.48	1.75	.85	.13	26
1982	1.55	1.90	.81	.13	26
1983	1.62	1.97	.82	.13	31

## L. Room Air Conditioners

Year	CR	PPI	CR/PPI	Weight	Models
1953	3.56	1.40	2.54	.24	2
1954	3.25	1.40	2.31	.24	4
1955	2.96	1.32	2.24	.24	5
1956	2.70	1.26	2.15	.24	12
1957	2.46	1.21	2.03	.24	12
1958	2.04	1.16	1.75	.23	7
1959	1.69	1.09	1.55	.22	5
1960	1.52	1.06	1.44	.21	7
1961	1.38	1.00	1.38	.20	9
1962	1.35	.99	1.37	.19	9
1963	1.31	.97	1.35	.19	10
1964	1.28	.96	1.33	.18	9
1965	1.25	.91	1.37	.17	8
1966	1.14	.90	1.26	.17	4
1967	1.03	.91	1.13	.15	2
1968	1.02	.93	1.10	.14	11
1969	1.02	.93	1.10	.13	12
1970	1.01	.95	1.06	.13	11
1971	.99	.99	1.00	.11	10
1972	1.00	1.00	1.00	.10	9
1973	1.01	.98	1.02	.09	12
1974	1.03	1.05	.98	.09	12
1975	1.08	1.16	.94	.08	22
1976	1.15	1.15	1.01	.08	22
1977	1.22	1.15	1.06	.08	10
1978	1.29	1.20	1.07	.08	11
1979	1.36	1.26	1.08	.08	18
1980	1.42	1.37	1.03	.08	15
1981	1.48	1.44	1.02	.08	39
1982	1.50	1.50	1.00	.08	49
1983	1.53	1.60	.96	.08	55

(continued)

Table B.15 (continued)

## M. Under-Counter Dishwashers

Year	CR	PPI	CR/PPI	Weight	Models
1952	1.62	1.15	1.41	.07	3
1953	1.57	1.16	1.36	.06	5
1954	1.52	1.17	1.30	.06	5
1955	1.47	1.13	1.31	.06	5
1956	1.43	1.12	1.28	.06	7
1957	1.38	1.12	1.24	.06	6
1958	1.34	1.10	1.21	.06	7
1959	1.30	1.10	1.18	.06	5
1960	1.25	1.06	1.18	.06	5
1961	1.22	1.03	1.18	.06	7
1962	1.18	1.02	1.16	.06	7
1963	1.14	1.00	1.14	.06	6
1964	1.11	.99	1.12	.06	6
1965	1.07	.97	1.10	.06	6
1966	1.07	.97	1.10	.06	9
1967	1.07	.98	1.09	.06	8
1968	1.06	.96	1.11	.05	10
1969	1.06	.97	1.09	.05	7
1970	1.05	.98	1.07	.04	9
1971	1.05	1.01	1.04	.04	10
1972	1.00	1.00	1.00	.03	8
1973	.95	1.02	.93	.03	8
1974	.90	1.08	.84	.03	8
1975	.95	1.22	.78	.03	8
1976	1.00	1.26	.79	.03	10
1977	1.05	1.33	.79	.03	9
1978	1.11	1.39	.80	.03	17
1979	1.16	1.47	.79	.03	18
1980	1.22	1.59	.77	.03	17
1981	1.28	1.71	.75	.03	34
1982	1.34	1.83	.73	.03	30
1983	1.40	1.89	.74	.03	27

## N. Microwave Ovens

Year	CR	PPI	CR/PPI	Weight	Models
1971	1.06	.98	1.08	.10	2
1972	1.00	1.00	1.00	.10	3
1973	.95	1.03	.92	.10	3
1974	.87	1.11	.79	.10	7
1975	.81	1.25	.64	.11	7
1976	.74	1.33	.56	.11	6
1977	.73	1.41	.52	.11	8
1978	.72	1.47	.49	.11	9
1979	.72	1.55	.46	.11	9
1980	.71	1.70	.42	.11	6
1981	.70	1.63	.43	.12	8
1982	.60	1.57	.38	.12	10
1983	.52	1.56	.33	.12	14



Table B.15 (continued)

## O. Commercial Vacuum Cleaners

Year	Sears	PPI	Sears/PPI	Weight	Models
1972	1.00	1.00	1.00	.02	6
1973	1.00	.97	1.03	.02	6
1974	1.00	1.05	.95	.02	6
1975	1.12	1.13	.99	.02	7
1976	1.03	1.18	.87	.03	5
1977	1.13	1.22	.92	.03	4
1978	1.08	1.32	.82	.03	4
1979	1.20	1.36	.88	.03	8
1980	1.10	1.47	.74	.04	3
1981	1.27	1.47	.86	.04	4
1982	1.37	1.46	.94	.04	5
1983	1.56	1.49	1.04	.04	5

## P. Automatic Coffee Makers

Year	Sears	PPI	Sears/PPI	Weight	Models
1972	1.00	1.00	1.00	.10	1
1973	1.00	1.01	.99	.10	1
1974	1.00	1.10	.91	.10	1
1975	1.10	1.20	.92	.11	1
1976	.93	1.24	.75	.11	2
1977	.79	1.27	.62	.11	4
1978	.72	1.31	.55	.11	4
1979	.71	1.29	.55	.11	4
1980	.83	1.44	.58	.11	6
1981	.83	1.58	.53	.12	5
1982	.89	1.73	.52	.12	5
1983	.91	1.96	.46	.12	5

## Q. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	1.94	.89	2.19	1.00	47
1948	2.02	.94	2.14	1.00	54
1949	2.03	.98	2.07	1.00	60
1950	1.91	.99	1.93	1.00	62
1951	1.90	1.06	1.79	1.00	60
1952	1.86	1.05	1.77	1.00	72
1953	1.82	1.06	1.72	1.00	87
1954	1.72	1.06	1.63	1.00	83
1955	1.64	1.03	1.59	1.00	90
1956	1.60	1.04	1.54	1.00	108
1957	1.55	1.04	1.48	1.00	108
1958	1.45	1.03	1.41	1.00	94
1959	1.33	1.02	1.31	1.00	87
1960	1.27	.98	1.29	1.00	91
1961	1.20	.94	1.28	1.00	104
1962	1.14	.92	1.24	1.00	104

(continued)

**Table B.15Q** (continued)

Year	Alternative	Official	Alternative/Official	Weight	Models
1963	1.11	.90	1.23	1.00	99
1964	1.07	.90	1.20	1.00	97
1965	1.01	.89	1.14	1.00	94
1966	.98	.89	1.10	1.00	99
1967	.93	.90	1.03	1.00	87
1968	.90	.93	.97	1.00	106
1969	.92	.94	.97	1.00	119
1970	.94	.97	.97	1.00	126
1971	.97	1.00	.97	1.00	129
1972	1.00	1.00	1.00	1.00	132
1973	1.02	1.01	1.01	1.00	114
1974	1.03	1.10	.94	1.00	112
1975	1.16	1.26	.92	1.00	132
1976	1.15	1.33	.87	1.00	129
1977	1.16	1.39	.84	1.00	118
1978	1.19	1.46	.81	1.00	144
1979	1.25	1.55	.81	1.00	152
1980	1.30	1.71	.76	1.00	145
1981	1.38	1.83	.75	1.00	208
1982	1.39	1.94	.72	1.00	224
1983	1.41	2.01	.70	1.00	233

**Table B.16** Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 28, Electrical Equipment, n.e.c

## A. Tachometers

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	1.41	.38	3.66	.08	2
1948	1.40	.40	3.47	.05	2
1949	1.40	.41	3.44	.05	2
1950	1.36	.42	3.21	.05	1
1951	1.36	.48	2.82	.05	1
1952	1.36	.47	2.88	.05	1
1953	1.24	.49	2.53	.05	1
1954	1.26	.51	2.45	.05	2
1955	1.18	.52	2.28	.05	2
1956	1.18	.54	2.17	.05	1
1957	1.18	.59	1.98	.05	1
1958	1.19	.63	1.89	.05	2
1959	1.19	.65	1.82	.05	1
1960	1.19	.68	1.76	.05	1
1961	1.31	.69	1.91	.05	2
1962	1.31	.70	1.89	.05	2
1963	1.11	.69	1.60	.05	1
1964	1.11	.70	1.60	.05	1
1965	1.00	.70	1.44	.06	1
1966	1.00	.74	1.35	.06	1
1967	.98	.78	1.26	.06	2
1968	.99	.83	1.19	.06	1
1969	.99	.87	1.14	.06	2
1970	.99	.92	1.08	.06	2
1971	1.00	.98	1.02	.06	2
1972	1.00	1.00	1.00	.06	2
1973	1.05	1.01	1.04	.06	2
1974	1.11	1.10	1.01	.06	2
1975	1.26	1.22	1.03	.06	4
1976	1.30	1.30	1.00	.05	2
1977	1.35	1.35	1.00	.05	3
1978	1.35	1.41	.95	.05	2
1979	1.25	1.49	.84	.04	2
1980	1.37	1.59	.86	.04	2
1981	1.56	1.78	.88	.04	1
1982	1.72	1.96	.88	.04	2
1983	1.72	2.06	.83	.04	2

## B. Electronic Auto Testers

Year	Sears	PPI	Sears/PP1	Weight	Models
1947	.99	.38	2.58	.08	1
1948	.98	.40	2.43	.05	1
1949	.98	.41	2.40	.05	1
1950	.98	.42	2.32	.05	2
1951	.98	.48	2.04	.05	3
1952	.97	.47	2.06	.05	3
1953	.96	.49	1.96	.05	2
1954	.96	.51	1.87	.05	3

(continued)

Table B.16B (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1955	.96	.52	1.85	.05	1
1956	1.13	.54	2.09	.05	3
1957	1.13	.59	1.91	.05	3
1958	1.13	.63	1.80	.05	2
1959	1.05	.65	1.60	.05	2
1960	1.05	.68	1.55	.05	1
1961	1.05	.69	1.53	.05	1
1962	1.05	.70	1.51	.05	1
1963	1.05	.69	1.51	.05	2
1964	.99	.70	1.42	.05	4
1965	.97	.70	1.39	.06	2
1966	.97	.74	1.31	.06	1
1967	.97	.78	1.24	.06	1
1968	.97	.83	1.17	.06	1
1969	.97	.87	1.12	.06	2
1970	.97	.92	1.06	.06	2
1971	1.00	.98	1.02	.06	2
1972	1.00	1.00	1.00	.06	2
1973	1.00	1.01	.99	.06	2
1974	.95	1.10	.86	.06	1
1975	1.23	1.22	1.00	.06	4
1976	1.07	1.30	.83	.05	2
1977	1.21	1.35	.90	.05	1
1978	1.30	1.41	.92	.05	3
1979	1.20	1.49	.81	.04	2
1980	1.01	1.59	.64	.04	1
1981	1.19	1.78	.67	.04	1
1982	1.20	1.96	.62	.04	4
1983	1.32	2.06	.64	.04	3

## C. Panel-Type Ammeters

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.69	.37	1.88	.05	1
1949	.69	.37	1.86	.05	1
1950	.69	.38	1.80	.05	2
1951	.77	.44	1.76	.05	2
1952	.74	.43	1.73	.05	2
1953	.73	.44	1.65	.05	2
1954	.73	.47	1.58	.05	1
1955	.79	.47	1.69	.05	1
1956	.79	.49	1.61	.05	1
1957	.79	.54	1.47	.05	1
1958	.79	.57	1.38	.05	1
1959	.80	.59	1.35	.05	1
1960	.84	.61	1.37	.05	1
1961	.87	.62	1.40	.05	1
1962	.91	.63	1.44	.05	1
1963	.95	.63	1.51	.05	1
1964	.99	.63	1.57	.05	1
1965	.98	.63	1.55	.06	1
1966	.87	.67	1.30	.06	2
1967	.87	.71	1.22	.06	1

Table B.16C (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1968	.87	.83	1.05	.06	2
1969	1.00	.89	1.13	.06	1
1970	1.00	.91	1.10	.06	1
1971	1.00	.92	1.09	.06	1
1972	1.00	1.00	1.00	.06	1
1973	1.00	.92	1.09	.06	1
1974	1.04	1.00	1.04	.06	1
1975	1.15	1.11	1.03	.06	1
1976	.94	1.18	.80	.05	0
1977	.94	1.22	.77	.05	0
1978	.94	1.29	.73	.05	0
1979	.94	1.35	.69	.04	0
1980	.94	1.45	.65	.04	0
1981	1.31	1.62	.81	.04	2
1982	1.69	1.78	.95	.04	2
1983	1.88	1.88	1.00	.04	1

## D. Replacement Auto Batteries

Year	Sears	PPI	Sears/PPI	Weight	Models
1948	.69	.66	1.05	.56	4
1949	.95	.70	1.36	.56	4
1950	.69	.62	1.10	.56	4
1951	.79	.70	1.13	.55	4
1952	.93	.71	1.32	.55	4
1953	.82	.69	1.19	.55	3
1954	.83	.67	1.25	.55	4
1955	.79	.67	1.18	.55	4
1956	.83	.73	1.15	.55	4
1957	.78	.79	.99	.55	3
1958	.78	.79	.98	.55	7
1959	.75	.81	.93	.55	6
1960	.83	.83	1.00	.55	6
1961	.76	.83	.91	.55	9
1962	.75	.82	.91	.54	8
1963	.74	.81	.91	.54	9
1964	.74	.83	.90	.54	10
1965	.77	.87	.89	.53	8
1966	.78	.88	.88	.53	9
1967	.80	.86	.93	.52	10
1968	.82	.87	.94	.51	9
1969	.88	.89	.99	.51	3
1970	.89	.96	.92	.50	3
1971	1.00	.98	1.02	.48	3
1972	1.00	1.00	1.00	.45	3
1973	1.09	1.01	1.08	.44	3
1974	1.21	1.10	1.10	.42	3
1975	1.51	1.27	1.19	.41	8
1976	1.49	1.27	1.17	.40	8
1977	1.59	1.45	1.10	.39	8
1978	1.70	1.56	1.09	.38	8

(continued)

Table B.16D (continued)

Year	Sears	PPI	Sears/PPI	Weight	Models
1979	1.84	1.88	.98	.37	6
1980	2.61	1.98	1.32	.36	6
1981	2.23	2.08	1.07	.36	5
1982	2.56	2.00	1.28	.36	6
1983	2.63	1.88	1.40	.36	4

## E. Fluorescent Lighting Fixtures

Year	Sears	PPI	Sears/PPI	Weight	Models
1947	.72	.49	1.45	.52	2
1948	.67	.52	1.29	.29	2
1949	.72	.54	1.32	.29	2
1950	.63	.57	1.11	.29	2
1951	.66	.63	1.04	.29	1
1952	.72	.64	1.13	.29	2
1953	.72	.65	1.11	.28	2
1954	.69	.66	1.05	.28	2
1955	.68	.70	.97	.28	2
1956	.72	.76	.96	.28	2
1957	.73	.81	.90	.28	2
1958	.73	.84	.87	.28	2
1959	.73	.84	.87	.29	2
1960	.73	.84	.87	.29	2
1961	.73	.93	.79	.29	2
1962	.74	.88	.84	.29	2
1963	.74	.86	.86	.29	2
1964	.74	.86	.86	.28	2
1965	.74	.85	.88	.28	2
1966	.74	.87	.86	.28	2
1967	.75	.88	.85	.27	2
1968	.81	.91	.89	.27	2
1969	.89	.95	.93	.27	2
1970	.95	.99	.96	.26	2
1971	1.00	1.00	1.00	.25	2
1972	1.00	1.00	1.00	.24	6
1973	.99	1.01	.98	.23	5
1974	.95	1.13	.83	.22	2
1975	1.14	1.18	.96	.22	6
1976	1.14	1.19	.96	.21	6
1977	1.14	1.20	.95	.21	3
1978	1.14	1.26	.91	.20	3
1979	1.21	1.44	.84	.20	3
1980	1.38	1.59	.87	.19	3
1981	1.55	1.81	.85	.19	3
1982	1.62	1.94	.83	.19	3
1983	1.62	1.93	.84	.19	3

Table B.16 (continued)

## F. Commercial Vacuum Cleaners

Year	Sears	PPI	Sears/PPI	Weight	Models
1972	1.00	1.00	1.00	.07	6
1973	1.00	.97	1.03	.07	6
1974	1.00	1.05	.95	.08	6
1975	1.12	1.13	.99	.10	7
1976	1.03	1.18	.87	.11	5
1977	1.13	1.22	.92	.12	4
1978	1.08	1.32	.82	.14	4
1979	1.20	1.36	.88	.15	8
1980	1.10	1.47	.74	.17	3
1981	1.27	1.47	.86	.18	4
1982	1.37	1.46	.94	.18	5
1983	1.56	1.49	1.04	.18	5

## G. Automatic Washing Machines

Year	CR	PPI	CR/PPI	Weight	Models
1948	2.04	.94	2.18	.01	4
1949	2.00	.95	2.10	.01	4
1950	1.96	.95	2.06	.01	4
1951	1.89	1.03	1.83	.01	4
1952	1.82	1.02	1.78	.01	3
1953	1.75	1.00	1.75	.01	5
1954	1.69	.99	1.72	.01	5
1955	1.62	.96	1.69	.01	5
1956	1.56	.98	1.59	.01	7
1957	1.49	1.02	1.46	.01	6
1958	1.43	1.01	1.42	.01	7
1959	1.37	1.00	1.37	.01	5
1960	1.31	.99	1.33	.00	5
1961	1.17	.98	1.19	.00	7
1962	1.04	.96	1.08	.00	7
1963	1.01	.95	1.07	.00	6
1964	.99	.95	1.04	.00	6
1965	.99	.93	1.07	.00	6
1966	.98	.93	1.06	.00	9
1967	.98	.94	1.05	.00	8
1968	.97	.96	1.01	.01	10
1969	.96	.97	.99	.01	7
1970	.99	.99	1.00	.01	9
1971	1.00	.99	1.01	.01	10
1972	1.00	1.00	1.00	.01	8
1973	1.00	1.00	1.00	.01	8
1974	.96	1.10	.87	.01	8
1975	1.19	1.24	.96	.02	8
1976	1.25	1.35	.92	.02	10
1977	1.31	1.39	.94	.02	9
1978	1.37	1.45	.95	.02	17
1979	1.44	1.52	.95	.02	18
1980	1.57	1.62	.97	.03	17
1981	1.68	1.73	.97	.03	34
1982	1.72	1.84	.94	.03	30
1983	1.75	1.90	.92	.03	27

(continued)

Table B.16 (continued)

## H. Electric Clothes Dryers

Year	CR	PPI	CR/PPI	Weight	Models
1951	2.02	.96	2.11	.01	1
1952	2.02	.96	2.11	.01	1
1953	2.02	.95	2.13	.01	1
1954	2.02	.94	2.15	.01	1
1955	1.99	.93	2.14	.01	1
1956	1.96	.95	2.07	.01	1
1957	1.93	.98	1.97	.01	1
1958	1.81	.98	1.85	.01	1
1959	1.70	1.00	1.71	.01	1
1960	1.60	.97	1.65	.00	1
1961	1.50	.95	1.58	.00	1
1962	1.43	.94	1.52	.00	2
1963	1.35	.94	1.44	.00	2
1964	1.28	.93	1.38	.00	2
1965	1.22	.90	1.36	.00	2
1966	1.16	.90	1.28	.00	2
1967	1.13	.92	1.23	.00	1
1968	1.10	.94	1.17	.01	1
1969	1.08	.96	1.12	.01	2
1970	1.05	1.00	1.05	.01	2
1971	1.02	1.01	1.01	.01	2
1972	1.00	1.00	1.00	.01	1
1973	.98	1.02	.97	.01	1
1974	.97	1.11	.87	.01	1
1975	.99	1.24	.80	.02	2
1976	.92	1.35	.68	.02	1
1977	.86	1.41	.61	.02	3
1978	.80	1.48	.54	.02	3
1979	.74	1.58	.47	.02	3
1980	.69	1.76	.39	.03	1
1981	.64	1.90	.34	.03	5
1982	.59	2.05	.29	.03	6
1983	.61	2.14	.29	.03	4

## I. Refrigerators

Year	CR	PPI	CR/PPI	Weight	Models
1949	4.19	1.45	2.88	.01	3
1950	3.72	1.47	2.52	.01	6
1951	3.30	1.52	2.17	.01	3
1952	2.91	1.52	1.91	.01	4
1953	2.57	1.53	1.67	.01	9
1954	2.27	1.53	1.48	.01	9
1955	2.15	1.43	1.50	.01	13
1956	2.05	1.39	1.47	.01	10
1957	1.95	1.34	1.46	.01	9
1958	1.88	1.30	1.44	.01	11
1959	1.81	1.28	1.41	.01	9
1960	1.60	1.20	1.33	.00	8
1961	1.48	1.13	1.31	.00	8
1962	1.38	1.09	1.26	.00	11



Table B.161 (continued)

Year	CR	PPI	CR/PPI	Weight	Models
1963	1.32	1.02	1.28	.00	9
1964	1.26	.99	1.27	.00	10
1965	1.12	.97	1.15	.00	9
1966	1.00	.95	1.05	.00	9
1967	.89	.95	.94	.00	7
1968	.80	.98	.81	.01	9
1969	.86	1.00	.86	.01	21
1970	.92	1.01	.92	.01	26
1971	.96	1.03	.94	.01	22
1972	1.00	1.00	1.00	.01	21
1973	1.04	1.00	1.04	.01	14
1974	1.08	1.08	1.00	.01	13
1975	1.13	1.25	.90	.02	18
1976	1.18	1.34	.88	.02	23
1977	1.24	1.40	.88	.02	17
1978	1.29	1.47	.88	.02	20
1979	1.35	1.52	.89	.02	17
1980	1.42	1.62	.88	.03	18
1981	1.48	1.75	.85	.03	26
1982	1.55	1.90	.81	.03	26
1983	1.62	1.97	.82	.03	31

## J. Room Air Conditioners

Year	CR	PPI	CR/PPI	Weight	Models
1953	3.56	1.40	2.54	.01	2
1954	3.25	1.40	2.31	.01	4
1955	2.96	1.32	2.24	.01	5
1956	2.70	1.26	2.15	.01	12
1957	2.46	1.21	2.03	.01	12
1958	2.04	1.16	1.75	.01	7
1959	1.69	1.09	1.55	.01	5
1960	1.52	1.06	1.44	.00	7
1961	1.38	1.00	1.38	.00	9
1962	1.35	.99	1.37	.00	9
1963	1.31	.97	1.35	.00	10
1964	1.28	.96	1.33	.00	9
1965	1.25	.91	1.37	.00	8
1966	1.14	.90	1.26	.00	4
1967	1.03	.91	1.13	.00	2
1968	1.02	.93	1.10	.01	11
1969	1.02	.93	1.10	.01	12
1970	1.01	.95	1.06	.01	11
1971	.99	.99	1.00	.01	10
1972	1.00	1.00	1.00	.01	9
1973	1.01	.98	1.02	.01	12
1974	1.03	1.05	.98	.01	12
1975	1.08	1.16	.94	.02	22
1976	1.15	1.15	1.01	.02	22
1977	1.22	1.15	1.06	.02	10
1978	1.29	1.20	1.07	.02	11
1979	1.36	1.26	1.08	.02	18

(continued)

Table B.16J (continued)

Year	CR	PPI	CR/PPI	Weight	Models
1980	1.42	1.37	1.03	.03	15
1981	1.48	1.44	1.02	.03	39
1982	1.50	1.50	1.00	.03	49
1983	1.53	1.60	.96	.03	55

## K. Under-Counter Dishwashers

Year	CR	PPI	CR/PPI	Weight	Models
1952	1.62	1.15	1.41	.01	3
1953	1.57	1.16	1.36	.01	5
1954	1.52	1.17	1.30	.01	5
1955	1.47	1.13	1.31	.01	5
1956	1.43	1.12	1.28	.01	7
1957	1.38	1.12	1.24	.01	6
1958	1.34	1.10	1.21	.01	7
1959	1.30	1.10	1.18	.01	5
1960	1.25	1.06	1.18	.00	5
1961	1.22	1.03	1.18	.00	7
1962	1.18	1.02	1.16	.00	7
1963	1.14	1.00	1.14	.00	6
1964	1.11	.99	1.12	.00	6
1965	1.07	.97	1.10	.00	6
1966	1.07	.97	1.10	.00	9
1967	1.07	.98	1.09	.00	8
1968	1.06	.96	1.11	.01	10
1969	1.06	.97	1.09	.01	7
1970	1.05	.98	1.07	.01	9
1971	1.05	1.01	1.04	.01	10
1972	1.00	1.00	1.00	.01	8
1973	.95	1.02	.93	.01	8
1974	.90	1.08	.84	.01	8
1975	.95	1.22	.78	.02	8
1976	1.00	1.26	.79	.02	10
1977	1.05	1.33	.79	.02	9
1978	1.11	1.39	.80	.02	17
1979	1.16	1.47	.79	.02	18
1980	1.22	1.59	.77	.03	17
1981	1.28	1.71	.75	.03	34
1982	1.34	1.83	.73	.03	30
1983	1.40	1.89	.74	.03	27

## L. Microwave Ovens

Year	CR	PPI	CR/PPI	Weight	Models
1968	1.25	.90	1.39	.01	0
1969	1.18	.91	1.29	.01	0
1970	1.12	.95	1.18	.01	0
1971	1.06	.98	1.08	.01	2
1972	1.00	1.00	1.00	.01	3
1973	.95	1.03	.92	.01	3
1974	.87	1.11	.79	.01	7
1975	.81	1.25	.64	.02	7

Table B.16L (continued)

Year	CR	PPI	CR/PPI	Weight	Models
1976	.74	1.33	.56	.02	6
1977	.73	1.41	.52	.02	8
1978	.72	1.47	.49	.02	9
1979	.72	1.55	.46	.02	9
1980	.71	1.70	.42	.03	6
1981	.70	1.63	.43	.03	8
1982	.60	1.57	.38	.03	10
1983	.52	1.56	.33	.03	14

## M. Group Average

Year	Alternative	Official	Alternative/Official	Weight	Models
1947	.78	.53	1.47	1.00	5
1948	.76	.58	1.31	1.00	14
1949	.92	.60	1.53	1.00	17
1950	.74	.58	1.28	1.00	21
1951	.81	.65	1.25	1.00	19
1952	.91	.65	1.40	1.00	23
1953	.84	.65	1.30	1.00	32
1954	.84	.64	1.30	1.00	36
1955	.81	.65	1.23	1.00	39
1956	.85	.70	1.21	1.00	48
1957	.82	.76	1.09	1.00	44
1958	.82	.78	1.06	1.00	47
1959	.80	.79	1.02	1.00	37
1960	.85	.80	1.05	1.00	37
1961	.81	.83	.98	1.00	47
1962	.81	.81	.99	1.00	50
1963	.80	.80	1.00	1.00	48
1964	.80	.81	.99	1.00	51
1965	.81	.83	.98	1.00	45
1966	.81	.85	.95	1.00	48
1967	.82	.85	.97	1.00	42
1968	.85	.88	.97	1.00	56
1969	.91	.91	1.00	1.00	59
1970	.93	.96	.97	1.00	67
1971	1.00	.98	1.02	1.00	66
1972	1.00	1.00	1.00	1.00	70
1973	1.04	1.00	1.04	1.00	65
1974	1.08	1.10	.98	1.00	64
1975	1.29	1.22	1.05	1.00	95
1976	1.25	1.25	1.00	1.00	95
1977	1.31	1.34	.98	1.00	75
1978	1.35	1.42	.95	1.00	97
1979	1.42	1.60	.89	1.00	104
1980	1.64	1.71	.95	1.00	89
1981	1.66	1.83	.91	1.00	162
1982	1.81	1.86	.97	1.00	173
1983	1.88	1.84	1.02	1.00	176

**Table B.17 Comparison of Alternative Price Indexes for PDE Based on Unit Value Data with Closest Comparable PPI**

**A. Cast Iron Radiators and Convectors**

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	.35	.30	1.18	.14	1
1948	.42	.37	1.14	.14	1
1949	.45	.40	1.13	.14	1
1950	.45	.40	1.13	.14	1
1951	.51	.44	1.15	.13	1
1952	.54	.45	1.20	.13	1
1953	.56	.48	1.15	.13	1
1954	.59	.50	1.19	.13	1
1955	.57	.51	1.12	.13	1
1956	.60	.53	1.14	.13	1
1957	.59	.56	1.05	.13	1
1958	.61	.57	1.07	.13	1
1959	.60	.59	1.03	.13	1
1960	.60	.59	1.03	.13	1
1961	.63	.59	1.08	.13	1
1962	.66	.60	1.09	.13	1
1963	.64	.62	1.04	.13	1
1964	.66	.64	1.03	.13	1
1965	.65	.64	1.01	.13	1
1966	.66	.67	.97	.13	1
1967	.65	.69	.95	.13	1
1968	.71	.74	.95	.13	1
1969	.86	.78	1.09	.13	6
1970	.81	.94	.86	.13	6
1971	.93	1.00	.93	.13	6
1972	1.00	1.00	1.00	.13	6
1973	1.14	1.01	1.12	.13	6
1974	1.43	1.35	1.06	.13	6
1975	1.84	1.65	1.12	.06	6
1976	1.89	1.76	1.08	.00	6

**B. Gasoline Engines, 11 hp and Over**

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	.69	.47	1.48	.14	11
1948	.69	.53	1.30	.14	0
1949	.68	.56	1.23	.14	0
1950	.68	.56	1.21	.14	11
1951	.82	.62	1.33	.13	11
1952	.86	.63	1.35	.13	11
1953	.85	.64	1.33	.13	11
1954	.86	.64	1.36	.13	11
1955	.84	.65	1.30	.13	14
1956	.91	.69	1.32	.13	15
1957	.99	.72	1.37	.13	13
1958	.90	.73	1.22	.13	12
1959	.85	.73	1.16	.13	10
1960	.88	.74	1.19	.13	8
1961	.91	.75	1.21	.13	10
1962	.93	.77	1.21	.13	11

Table B.17B (continued)

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1963	.89	.77	1.17	.13	13
1964	.90	.77	1.17	.13	13
1965	.99	.77	1.28	.13	12
1966	.88	.77	1.14	.13	9
1967	.98	.77	1.27	.13	9
1968	1.00	.80	1.24	.13	10
1969	1.01	.86	1.18	.13	11
1970	1.11	.91	1.22	.13	10
1971	1.09	.96	1.13	.13	10
1972	1.00	1.00	1.00	.13	10
1973	.91	1.01	.90	.13	11
1974	1.08	1.18	.91	.13	12
1975	1.19	1.38	.86	.13	10
1976	1.06	1.50	.71	.14	8
1977	1.73	1.60	1.08	.14	5
1978	2.02	1.80	1.12	.14	6
1979	2.20	1.99	1.11	.14	4
1980	2.61	2.26	1.16	.14	7
1981	2.87	2.54	1.13	.14	6
1982	2.91	2.75	1.06	.14	6
1983	3.03	2.85	1.06	.14	6

## C. Diesel Engines, Except Automotive

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	1.34	.37	3.61	.14	20
1948	1.33	.43	3.10	.14	20
1949	1.31	.47	2.81	.14	20
1950	1.29	.48	2.71	.14	20
1951	1.32	.60	2.22	.13	20
1952	1.42	.58	2.44	.13	20
1953	1.45	.59	2.45	.13	19
1954	1.43	.61	2.35	.13	17
1955	1.36	.62	2.19	.13	18
1956	1.36	.68	2.01	.13	19
1957	1.52	.72	2.10	.13	16
1958	1.32	.74	1.79	.13	16
1959	1.26	.75	1.68	.13	18
1960	1.17	.75	1.56	.13	18
1961	1.11	.76	1.47	.13	17
1962	1.07	.76	1.41	.13	17
1963	1.05	.76	1.38	.13	16
1964	.99	.78	1.27	.13	15
1965	.96	.79	1.21	.13	11
1966	.88	.82	1.08	.13	10
1967	.90	.84	1.06	.13	12
1968	.85	.86	.98	.13	12
1969	.85	.89	.96	.13	36
1970	.89	.93	.96	.13	22
1971	.93	.97	.96	.13	22
1972	1.00	1.00	1.00	.13	28
1973	.98	1.03	.96	.13	24

(continued)

Table B.17C (continued)

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1974	1.19	1.18	1.01	.13	16
1975	1.39	1.45	.96	.13	11
1976	1.38	1.58	.87	.14	12
1977	1.43	1.69	.85	.14	10
1978	1.58	1.87	.84	.14	10
1979	1.55	2.08	.75	.14	8
1980	1.73	2.34	.74	.14	14
1981	1.89	2.71	.70	.14	12
1982	2.01	2.94	.68	.14	13
1983	2.05	2.99	.69	.14	13

## D. Compressors, All Refrigerants Except Ammonia, Open Type, over 10 hp

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	1.64	.34	4.75	.14	9
1948	1.63	.38	4.34	.14	9
1949	1.63	.40	4.03	.14	9
1950	1.53	.41	3.73	.14	9
1951	1.61	.46	3.48	.13	9
1952	1.62	.46	3.51	.13	10
1953	1.59	.48	3.29	.13	10
1954	1.50	.49	3.05	.13	7
1955	1.38	.51	2.70	.13	7
1956	1.41	.57	2.49	.13	10
1957	1.28	.61	2.09	.13	10
1958	1.25	.64	1.96	.13	8
1959	1.21	.67	1.81	.13	8
1960	1.33	.67	1.99	.13	9
1961	1.20	.66	1.80	.13	10
1962	1.12	.66	1.69	.13	10
1963	1.06	.67	1.59	.13	10
1964	1.03	.69	1.50	.13	10
1965	.85	.73	1.16	.13	9
1966	.85	.77	1.11	.13	9
1967	.86	.81	1.06	.13	8
1968	.83	.84	.98	.13	8
1969	.85	.88	.96	.13	14
1970	.88	.93	.96	.13	12
1971	.96	.98	.98	.13	13
1972	1.00	1.00	1.00	.13	13
1973	1.10	1.03	1.07	.13	9
1974	1.29	1.23	1.04	.13	9
1975	1.38	1.51	.91	.13	8
1976	1.47	1.60	.92	.14	8
1977	1.45	1.71	.85	.14	6
1978	1.46	1.84	.79	.14	6
1979	1.59	2.01	.79	.14	7
1980	1.67	2.32	.72	.14	7
1981	1.80	2.62	.69	.14	5
1982	1.89	2.80	.67	.14	5
1983	1.70	2.80	.61	.14	9

Table B.17 (continued)

## E. Compressors and Compressor Units, Ammonia Refrigerant

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	.43	.34	1.24	.14	15
1948	.44	.38	1.18	.14	15
1949	.49	.40	1.22	.14	16
1950	.51	.41	1.25	.14	15
1951	.54	.46	1.18	.13	15
1952	.54	.46	1.17	.13	14
1953	.54	.48	1.12	.13	14
1954	.54	.49	1.10	.13	12
1955	.52	.51	1.01	.13	11
1956	.50	.57	.88	.13	13
1957	.53	.61	.87	.13	13
1958	.53	.64	.84	.13	11
1959	.52	.67	.78	.13	10
1960	.58	.67	.87	.13	10
1961	.60	.66	.91	.13	11
1962	.59	.66	.90	.13	11
1963	.61	.67	.92	.13	9
1964	.60	.69	.88	.13	8
1965	.62	.73	.85	.13	8
1966	.63	.77	.82	.13	9
1967	.58	.81	.72	.13	9
1968	.60	.84	.72	.13	9
1969	.60	.88	.68	.13	9
1970	.63	.93	.68	.13	9
1971	.77	.98	.79	.13	10
1972	1.00	1.00	1.00	.13	10
1973	1.21	1.03	1.18	.13	9
1974	1.34	1.23	1.09	.13	4
1975	1.64	1.51	1.09	.13	4
1976	1.77	1.60	1.11	.14	3
1977	1.87	1.71	1.10	.14	3
1978	1.96	1.84	1.06	.14	3
1979	2.11	2.01	1.05	.14	3
1980	2.36	2.32	1.02	.14	3
1981	2.55	2.62	.98	.14	4
1982	2.53	2.80	.90	.14	4
1983	2.66	2.80	.95	.14	4

## F. Condensing Units, Air Cooled, Hermetic Type

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	.72	.34	2.09	.14	4
1948	.72	.38	1.91	.14	4
1949	.66	.40	1.64	.14	4
1950	.68	.41	1.65	.14	4
1951	.70	.46	1.50	.13	4
1952	.71	.46	1.54	.13	5
1953	.67	.48	1.40	.13	7
1954	.80	.49	1.63	.13	6
1955	.80	.51	1.57	.13	6

(continued)

Table B.17F (continued)

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1956	.84	.57	1.48	.13	9
1957	.78	.61	1.28	.13	10
1958	.76	.64	1.19	.13	10
1959	.72	.67	1.07	.13	9
1960	.69	.67	1.03	.13	9
1961	.69	.66	1.05	.13	9
1962	.71	.66	1.07	.13	9
1963	.80	.67	1.21	.13	9
1964	.76	.69	1.11	.13	9
1965	.76	.73	1.04	.13	10
1966	.78	.77	1.01	.13	10
1967	.78	.81	.96	.13	10
1968	.77	.84	.92	.13	9
1969	.79	.88	.89	.13	7
1970	.82	.93	.89	.13	8
1971	.89	.98	.91	.13	9
1972	1.00	1.00	1.00	.13	8
1973	1.14	1.03	1.11	.13	4
1974	1.24	1.23	1.01	.13	6
1975	1.49	1.51	.99	.13	7
1976	1.61	1.60	1.01	.14	7
1977	1.63	1.71	.95	.14	7
1978	1.70	1.84	.93	.14	7
1979	1.77	2.01	.88	.14	7
1980	1.89	2.32	.82	.14	7
1981	2.05	2.62	.78	.14	7
1982	2.22	2.80	.79	.14	7
1983	2.35	2.80	.84	.14	6

## G. Condensing Units, Water Cooled, Open Type

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1947	.69	.34	1.99	.14	16
1948	.70	.38	1.86	.14	16
1949	.68	.40	1.69	.14	18
1950	.65	.41	1.60	.14	18
1951	.72	.46	1.57	.13	18
1952	.69	.46	1.49	.13	18
1953	.71	.48	1.47	.13	18
1954	.67	.49	1.36	.13	17
1955	.71	.51	1.38	.13	17
1956	.72	.57	1.26	.13	19
1957	.70	.61	1.14	.13	19
1958	.75	.64	1.19	.13	13
1959	.72	.67	1.08	.13	13
1960	.71	.67	1.05	.13	14
1961	.70	.66	1.05	.13	15
1962	.68	.66	1.04	.13	15
1963	.67	.67	1.01	.13	15
1964	.67	.69	.98	.13	15
1965	.67	.73	.92	.13	15
1966	.74	.77	.96	.13	15
1967	.74	.81	.92	.13	14
1968	.75	.84	.89	.13	14



Table B.17G (continued)

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1969	.83	.88	.94	.13	14
1970	.87	.93	.94	.13	15
1971	.88	.98	.90	.13	15
1972	1.00	1.00	1.00	.13	15
1973	1.15	1.03	1.12	.13	15
1974	1.42	1.23	1.15	.13	15
1975	1.52	1.51	1.00	.13	15
1976	1.77	1.60	1.11	.14	6
1977	1.94	1.71	1.14	.14	6
1978	1.98	1.84	1.08	.14	6
1979	2.09	2.01	1.04	.14	6
1980	2.28	2.32	.98	.14	6
1981	2.37	2.62	.90	.14	6
1982	2.52	2.80	.90	.14	6
1983	2.46	2.80	.88	.14	6

## H. Condensing Units, Water Cooled, Hermetic Type

Year	Unit Value	PPI	Unit Value/PPI	Weight	Models
1952	.75	.46	1.62	.13	8
1953	.80	.48	1.65	.13	8
1954	.72	.49	1.46	.13	8
1955	.74	.51	1.45	.13	8
1956	.76	.57	1.33	.13	8
1957	.83	.61	1.35	.13	8
1958	.74	.64	1.17	.13	8
1959	.68	.67	1.01	.13	8
1960	.68	.67	1.01	.13	8
1961	.69	.66	1.04	.13	9
1962	.75	.66	1.14	.13	9
1963	.75	.67	1.13	.13	9
1964	.73	.69	1.07	.13	9
1965	.74	.73	1.01	.13	9
1966	.78	.77	1.01	.13	9
1967	.84	.81	1.04	.13	9
1968	.80	.84	.95	.13	9
1969	.82	.88	.93	.13	9
1970	.86	.93	.93	.13	9
1971	.91	.98	.93	.13	9
1972	1.00	1.00	1.00	.13	9
1973	1.04	1.03	1.01	.13	6
1974	1.08	1.23	.88	.13	3
1975	1.59	1.51	1.05	.13	2
1976	1.64	1.60	1.02	.14	4
1977	1.76	1.71	1.03	.14	4
1978	1.79	1.84	.97	.14	4
1979	1.85	2.01	.92	.14	6
1980	2.02	2.32	.87	.14	6
1981	2.15	2.62	.82	.14	6
1982	2.50	2.80	.89	.14	6
1983	2.49	2.80	.89	.14	6

(continued)

Table B.17 (continued)

I. Group Average					
Year	Alternative	Official	Alternative/Official	Weight	Models
1947	.72	.35	2.05	1.00	76
1948	.75	.40	1.88	1.00	65
1949	.75	.43	1.76	1.00	68
1950	.74	.43	1.72	1.00	78
1951	.81	.49	1.64	1.00	78
1952	.82	.49	1.67	1.00	87
1953	.83	.51	1.62	1.00	88
1954	.83	.52	1.59	1.00	79
1955	.82	.54	1.51	1.00	82
1956	.84	.59	1.42	1.00	94
1957	.85	.63	1.35	1.00	90
1958	.82	.65	1.26	1.00	79
1959	.78	.68	1.16	1.00	77
1960	.79	.68	1.17	1.00	77
1961	.79	.67	1.17	1.00	82
1962	.79	.68	1.17	1.00	83
1963	.79	.68	1.16	1.00	82
1964	.78	.70	1.11	1.00	80
1965	.77	.73	1.05	1.00	75
1966	.77	.76	1.01	1.00	72
1967	.78	.79	.99	1.00	72
1968	.78	.83	.94	1.00	72
1969	.82	.87	.94	1.00	106
1970	.85	.93	.92	1.00	91
1971	.92	.98	.94	1.00	94
1972	1.00	1.00	1.00	1.00	99
1973	1.08	1.02	1.05	1.00	84
1974	1.25	1.23	1.01	1.00	71
1975	1.49	1.50	.99	1.00	63
1976	1.55	1.60	.97	1.00	54
1977	1.73	1.71	1.01	1.00	41
1978	1.83	1.86	.98	1.00	42
1979	1.92	2.04	.94	1.00	41
1980	2.12	2.35	.90	1.00	50
1981	2.28	2.65	.86	1.00	46
1982	2.41	2.85	.85	1.00	47
1983	2.43	2.87	.84	1.00	50

**Table B.18** Summary Table: Comparison of Alternative and Official Price Indexes for PDE

	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956
Office, computing, and accounting machinery (NIPA table 5.6, row 4):										
Alternative	5.14	5.52	5.46	5.47	5.71	5.56	5.47	5.57	5.63	5.55
Official	.33	.30	.37	.33	.35	.35	.37	.37	.38	.40
Models	1	3	3	4	6	9	12	13	12	10
Weight	.05	.05	.05	.05	.05	.05	.05	.05	.05	.06
Communication equipment (NIPA table 5.6, row 5):										
Alternative	2.81	2.63	2.45	2.25	2.13	1.99	1.66	1.54	1.46	1.57
Official	.66	.67	.66	.68	.70	.69	.66	.67	.67	.69
Models	6	6	8	9	7	10	9	6	8	11
Weight	.06	.05	.05	.06	.07	.07	.07	.06	.07	.07
Fabricated metal products (NIPA table 5.6, row 9):										
Alternative	1.04	1.02	1.06	1.01	1.04	1.02	1.02	1.02	.94	.93
Official	.52	.56	.56	.57	.65	.65	.67	.66	.69	.79
Models	6	24	17	20	23	14	24	23	27	28
Weight	.04	.04	.04	.04	.05	.05	.05	.05	.05	.05
Engines and turbines (NIPA table 5.6, row 10):										
Alternative	1.42	1.41	1.35	1.30	1.27	1.22	1.24	1.25	1.11	1.05
Official	.41	.45	.47	.48	.54	.55	.57	.59	.60	.66
Models	31	39	31	45	48	37	46	42	41	44
Weight	.01	.02	.02	.02	.02	.02	.02	.03	.02	.02
Metalworking machinery (NIPA table 5.6, row 11):										
Alternative	.62	.61	.64	.56	.64	.61	.61	.65	.66	.70
Official	.46	.49	.51	.54	.58	.58	.60	.60	.65	.71
Models	21	21	24	26	28	32	30	33	30	35
Weight	.07	.05	.05	.06	.08	.09	.10	.09	.09	.09
General industrial equipment (NIPA table 5.6, row 13):										
Alternative	.70	.71	.72	.65	.73	.70	.73	.75	.78	.78
Official	.42	.45	.48	.50	.56	.55	.57	.58	.61	.67
Models	12	16	16	16	23	23	27	25	27	24
Weight	.09	.08	.07	.07	.07	.07	.07	.08	.09	.09
Electrical transmission, distribution, and industrial apparatus (NIPA table 5.6, row 14):										
Alternative	1.03	1.04	1.09	1.05	1.13	1.15	1.06	1.08	1.00	1.15
Official	.51	.52	.53	.55	.63	.62	.65	.69	.70	.77
Models	11	13	14	22	23	25	24	57	58	55
Weight	.07	.06	.07	.08	.09	.09	.09	.09	.09	.10
Autos (NIPA table 5.6, row 17):										
Alternative	1.07	1.21	1.01	.98	1.03	1.11	1.09	1.01	1.11	1.07
Official	.53	.60	.65	.65	.78	.88	.71	.80	.74	1.05
Models	48	48	68	78	83	85	78	71	72	78
Weight	.16	.19	.23	.21	.16	.17	.20	.21	.19	.16
Aircraft (NIPA table 5.6, row 18):										
Alternative	4.22	4.23	4.43	5.02	4.85	5.20	5.45	5.81	5.98	6.08
Official	.31	.82	.41	.62	.62	.55	.62	.55	.71	.71
Models	41	63	32	32	20	58	53	56	53	67
Weight	.01	.01	.01	.01	.01	.01	.01	.01	.02	.02
Railroad equipment (NIPA table 5.6, row 20):										
Alternative	.60	.69	.66	.73	.74	.76	.75	.79	.79	.80
Official	.43	.50	.49	.55	.56	.58	.58	.62	.63	.65
Models	10	10	10	10	10	10	10	10	10	10
Weight	.07	.09	.08	.08	.08	.07	.05	.04	.04	.05

(continued)

Table B.18 (continued)

	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956
Furniture and fixtures (NIPA table 5.6, row 22):										
Alternative	.70	.67	.70	.66	.69	.77	.76	.75	.74	.80
Official	.47	.50	.52	.54	.60	.60	.62	.63	.65	.71
Models	5	5	6	11	10	10	9	9	9	9
Weight	.06	.05	.05	.06	.06	.06	.06	.06	.07	.06
Tractors (NIPA table 5.6, row 23):										
Alternative	.46	.55	.66	.60	.74	.73	.71	.73	.65	.68
Official	.38	.43	.45	.45	.49	.50	.52	.53	.53	.57
Models	17	17	15	26	27	28	31	27	21	24
Weight	.05	.06	.07	.06	.06	.05	.05	.05	.05	.04
Agricultural machinery, except tractors (NIPA table 5.6, row 24):										
Alternative	.50	.50	.54	.50	.52	.54	.56	.56	.56	.57
Official	.38	.43	.47	.48	.52	.53	.53	.54	.55	.56
Models	8	12	13	18	19	15	17	24	22	23
Weight	.07	.08	.08	.08	.08	.07	.06	.06	.05	.04
Construction machinery, except tractors (NIPA table 5.6, row 25):										
Alternative	.69	.71	.71	.69	.74	.73	.76	.77	.76	.77
Official	.42	.45	.47	.49	.54	.54	.54	.54	.55	.59
Models	6	9	12	13	14	14	15	15	18	20
Weight	.05	.05	.04	.04	.04	.04	.04	.04	.04	.04
Service industry machinery (NIPA table 5.6, row 27):										
Alternative	1.94	2.02	2.03	1.91	1.90	1.86	1.82	1.72	1.64	1.60
Official	.89	.94	.98	.99	1.06	1.05	1.06	1.06	1.03	1.04
Models	47	54	60	62	60	72	87	83	90	108
Weight	.10	.10	.08	.07	.06	.07	.07	.07	.07	.07
Electrical equipment, n.e.c. (NIPA table 5.6, row 28):										
Alternative	.78	.76	.92	.74	.81	.91	.84	.84	.81	.85
Official	.53	.58	.60	.58	.65	.65	.65	.64	.65	.70
Models	5	14	17	21	19	23	32	36	39	48
Weight	.02	.02	.02	.02	.02	.01	.01	.01	.02	.01
Törnqvist index for sixteen included equipment types:										
Alternative	1.11	1.16	1.15	1.09	1.15	1.17	1.14	1.13	1.13	1.15
Official	.51	.56	.58	.60	.67	.68	.66	.69	.69	.78
Alternative/ official	2.17	2.06	1.98	1.83	1.73	1.72	1.72	1.65	1.63	1.48
Implicit deflator for sixteen included equipment types:										
Alternative	.87	.89	.90	.87	.90	.93	.93	.94	.94	.97
Official	.48	.52	.54	.56	.60	.61	.61	.64	.64	.71
Alternative/ official	1.83	1.73	1.67	1.55	1.49	1.52	1.52	1.48	1.46	1.37
Nominal and real—Törnqvist index method—PDE purchases (billions of dollars):										
Nominal	10.6	12.5	11.5	13.0	14.5	14.8	16.4	16.1	17.9	19.6
Real										
alternative	9.6	10.8	10.0	11.9	12.6	12.7	14.4	14.2	15.8	17.0
official	20.7	22.3	19.9	21.8	21.8	21.8	24.7	23.4	25.8	25.1
Nominal and real—implicit deflator method—PDE purchases (billions of dollars):										
Nominal	10.6	12.5	11.5	13.0	14.5	14.8	16.4	16.1	17.9	19.6
Real										
alternative	12.1	14.0	12.8	15.0	16.1	15.9	17.6	17.1	19.1	20.2
official	22.2	24.2	21.4	23.3	24.0	24.2	26.7	25.3	27.8	27.6
Number of observations										
	275	354	346	413	420	465	504	530	537	594

Table B.18 (continued)

	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966
Office, computing, and accounting machinery (NIPA table 5.6, row 4):										
Alternative	5.50	5.57	4.72	4.28	3.66	3.28	3.09	2.71	2.14	1.75
Official	.41	.41	.40	.46	.51	.51	.62	.69	.71	.74
Models	12	19	13	20	27	14	19	17	32	19
Weight	.07	.07	.06	.07	.06	.06	.07	.07	.07	.08
Communication equipment (NIPA table 5.6, row 5):										
Alternative	1.43	1.21	1.00	1.06	1.04	1.10	.97	.97	.80	.81
Official	.72	.73	.73	.73	.73	.73	.74	.75	.76	.77
Models	12	7	10	9	7	12	10	13	11	11
Weight	.08	.08	.09	.11	.13	.12	.11	.11	.10	.10
Fabricated metal products (NIPA table 5.6, row 9):										
Alternative	.97	1.03	.95	.95	.92	.93	.87	.85	.80	.77
Official	.82	.79	.80	.80	.78	.79	.79	.79	.79	.82
Models	35	29	32	33	35	34	35	39	40	36
Weight	.05	.05	.04	.04	.04	.03	.04	.04	.04	.04
Engines and turbines (NIPA table 5.6, row 10):										
Alternative	1.16	1.16	1.11	1.05	1.03	1.01	.97	.93	.89	.80
Official	.74	.76	.76	.76	.74	.74	.74	.76	.76	.78
Models	45	42	45	43	33	44	45	41	37	29
Weight	.03	.03	.03	.02	.02	.02	.01	.01	.01	.02
Metalworking machinery (NIPA table 5.6, row 11):										
Alternative	.74	.75	.73	.76	.76	.78	.78	.77	.78	.78
Official	.76	.77	.80	.84	.84	.86	.85	.87	.88	.90
Models	38	37	36	37	38	35	37	37	39	36
Weight	.08	.07	.07	.07	.08	.08	.08	.09	.09	.11
General industrial equipment (NIPA table 5.6, row 13):										
Alternative	.83	.85	.87	.87	.87	.86	.82	.81	.81	.82
Official	.72	.74	.76	.76	.76	.75	.75	.76	.77	.80
Models	28	34	36	32	31	31	29	33	24	25
Weight	.09	.09	.09	.09	.09	.09	.09	.09	.09	.09
Electrical transmission, distribution, and industrial apparatus (NIPA table 5.6, row 14):										
Alternative	1.19	1.16	1.10	1.06	.99	.91	.84	.83	.82	.81
Official	.83	.86	.86	.83	.80	.80	.78	.79	.75	.77
Models	54	27	28	25	52	53	53	57	25	26
Weight	.10	.09	.09	.09	.09	.08	.08	.08	.08	.08
Autos (NIPA table 5.6, row 17):										
Alternative	1.06	.90	.96	.96	.99	1.00	1.02	.98	.99	.92
Official	.98	1.07	.94	.92	.95	.91	.93	.91	.87	.90
Models	80	81	82	82	85	89	100	115	127	141
Weight	.15	.16	.17	.17	.17	.17	.15	.15	.14	.12
Aircraft (NIPA table 5.6, row 18):										
Alternative	6.12	5.25	3.06	1.92	1.84	1.83	1.89	1.96	2.01	1.89
Official	.65	.76	.74	.73	.71	.76	.82	.73	.80	.79
Models	96	98	86	117	150	107	64	80	139	185
Weight	.02	.03	.04	.04	.04	.03	.02	.03	.04	.05
Railroad equipment (NIPA table 5.6, row 20):										
Alternative	.89	.97	.84	.93	.89	.88	.94	.90	.88	.88
Official	.73	.80	.70	.79	.76	.76	.82	.80	.79	.80
Models	10	10	10	10	10	10	10	10	10	10
Weight	.05	.03	.03	.03	.03	.04	.04	.05	.05	.05

(continued)

Table B.18 (continued)

	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966
Furniture and fixtures (NIPA table 5.6, row 22):										
Alternative	.86	.86	.80	.81	.80	.77	.76	.77	.79	.80
Official	.75	.77	.78	.78	.80	.80	.80	.80	.80	.81
Models	9	9	9	11	13	11	15	15	15	15
Weight	.06	.07	.06	.06	.06	.06	.06	.06	.06	.06
Tractors (NIPA table 5.6, row 23):										
Alternative	.65	.75	.80	.80	.83	.85	.82	.84	.83	.83
Official	.61	.64	.66	.68	.69	.70	.71	.73	.75	.77
Models	16	19	20	27	26	32	30	32	30	27
Weight	.04	.05	.04	.03	.04	.04	.05	.05	.05	.05
Agricultural machinery, except tractors (NIPA table 5.6, row 24):										
Alternative	.60	.65	.63	.61	.65	.65	.65	.68	.69	.72
Official	.59	.62	.65	.66	.68	.69	.71	.72	.74	.77
Models	20	21	17	23	22	15	17	17	16	15
Weight	.05	.06	.05	.05	.05	.06	.06	.05	.05	.05
Construction machinery, except tractors (NIPA table 5.6, row 25):										
Alternative	.81	.82	.84	.85	.84	.83	.80	.79	.79	.81
Official	.63	.66	.69	.70	.69	.70	.70	.72	.74	.77
Models	23	25	25	22	25	26	25	28	20	29
Weight	.04	.05	.04	.04	.04	.04	.05	.05	.05	.05
Service industry machinery (NIPA table 5.6, row 27):										
Alternative	1.55	1.45	1.33	1.27	1.20	1.14	1.11	1.07	1.01	.98
Official	1.04	1.03	1.02	.98	.94	.92	.90	.90	.89	.89
Models	108	94	87	91	104	104	99	97	94	99
Weight	.07	.07	.06	.06	.06	.06	.05	.05	.05	.05
Electrical equipment, n.e.c. (NIPA table 5.6, row 28):										
Alternative	.82	.82	.80	.85	.81	.81	.80	.80	.81	.81
Official	.76	.78	.79	.80	.83	.81	.80	.81	.83	.85
Models	44	47	37	37	47	50	48	51	45	48
Weight	.01	.01	.01	.01	.01	.02	.02	.02	.02	.01
Törnqvist index for sixteen included equipment types:										
Alternative	1.18	1.15	1.08	1.06	1.04	1.03	1.00	.98	.94	.92
Official	.81	.84	.83	.83	.83	.82	.83	.83	.83	.85
Alternative/ official	1.45	1.37	1.31	1.28	1.26	1.25	1.20	1.18	1.14	1.08
Implicit deflator for sixteen included equipment types:										
Alternative	1.02	1.00	.98	.98	.97	.96	.92	.92	.89	.89
Official	.74	.74	.75	.76	.77	.77	.78	.79	.79	.81
Alternative/ official	1.39	1.36	1.30	1.29	1.27	1.25	1.18	1.16	1.13	1.10
Nominal and real—Törnqvist index method—PDE purchases (billions of dollars):										
Nominal	21.8	18.7	21.3	22.3	21.7	23.4	25.3	28.4	33.4	38.8
Real										
alternative	18.5	16.3	19.7	21.0	20.9	22.7	25.4	29.0	35.4	42.3
official	26.9	22.3	25.7	26.9	26.2	28.4	30.4	34.1	40.2	45.6
Nominal and real—implicit deflator method—PDE purchases (billions of dollars):										
Nominal	21.8	18.7	21.3	22.3	21.7	23.4	25.3	28.4	33.4	38.8
Real										
alternative	21.4	18.6	21.8	22.7	22.3	24.4	27.4	31.0	37.3	43.7
official	29.7	25.3	28.5	29.4	28.3	30.4	32.4	36.0	42.2	47.9
Number of observations	630	599	573	619	705	667	636	682	704	751

Table B.18 (continued)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Office, computing, and accounting machinery: (NIPA table 5.6, row 4):										
Alternative	1.68	1.48	1.33	1.27	1.13	1.00	.92	.87	.81	.70
Official	.80	.80	.88	.98	1.05	1.00	.86	.77	.80	.76
Models	17	16	18	20	12	44	18	25	38	38
Weight	.08	.08	.08	.08	.08	.09	.09	.08	.08	.08
Communication equipment (NIPA table 5.6, row 5):										
Alternative	.78	.79	.80	.86	.94	1.00	.99	1.08	1.09	1.05
Official	.80	.83	.87	.91	.95	1.00	1.04	1.13	1.23	1.31
Models	12	10	8	8	18	25	16	13	19	16
Weight	.11	.11	.13	.14	.13	.12	.13	.13	.13	.13
Fabricated metal products (NIPA table 5.6, row 9):										
Alternative	.80	.80	.89	.94	.97	1.00	1.05	1.10	1.38	1.43
Official	.83	.85	.88	.94	.98	1.00	1.04	1.22	1.34	1.40
Models	38	57	63	71	68	71	64	69	73	73
Weight	.04	.04	.05	.05	.06	.05	.06	.06	.07	.07
Engines and turbines (NIPA table 5.6, row 10):										
Alternative	.84	.83	.89	.98	.98	1.00	1.05	1.22	1.37	1.43
Official	.80	.83	.87	.93	.97	1.00	1.02	1.16	1.42	1.56
Models	37	37	57	48	47	47	48	46	32	33
Weight	.02	.02	.02	.03	.03	.03	.02	.02	.02	.02
Metalworking machinery (NIPA table 5.6, row 11):										
Alternative	.83	.84	.88	.92	.97	1.00	1.02	1.06	1.26	1.39
Official	.93	.96	.98	1.00	.98	1.00	1.04	1.17	1.35	1.43
Models	34	40	42	35	36	41	41	33	36	37
Weight	.11	.10	.10	.09	.08	.08	.09	.09	.09	.09
General industrial equipment (NIPA table 5.6, row 13):										
Alternative	.87	.89	.93	.98	1.00	1.00	1.03	1.06	1.26	1.35
Official	.82	.84	.85	.90	.97	1.00	1.04	1.19	1.41	1.45
Models	22	19	27	24	23	23	22	27	31	30
Weight	.08	.08	.08	.08	.08	.08	.08	.08	.08	.09
Electrical transmission, distribution, and industrial apparatus (NIPA table 5.6, row 14):										
Alternative	.84	.84	.93	.95	.98	1.00	1.00	1.01	1.25	1.26
Official	.80	.85	.88	.93	.98	1.00	1.01	1.13	1.29	1.37
Models	27	26	20	20	20	20	17	17	37	34
Weight	.08	.07	.07	.07	.07	.07	.07	.07	.06	.06
Autos (NIPA table 5.6, row 17):										
Alternative	.90	.93	.88	.94	.99	1.00	.99	.92	1.11	1.22
Official	.92	.91	.94	1.09	1.02	1.00	.98	1.11	1.18	1.15
Models	159	165	162	164	158	178	149	155	175	178
Weight	.13	.13	.12	.12	.14	.13	.11	.10	.11	.12
Aircraft (NIPA table 5.6, row 18):										
Alternative	1.47	1.27	1.24	1.12	1.01	1.00	1.04	1.07	1.13	1.21
Official	.84	.86	.90	.93	.97	1.00	1.05	1.12	1.24	1.41
Models	96	129	230	122	73	95	57	71	83	86
Weight	.07	.07	.05	.04	.03	.04	.04	.03	.03	.03
Railroad equipment (NIPA table 5.6, row 20):										
Alternative	.89	.90	.92	.99	1.02	1.00	1.05	1.17	1.47	1.59
Official	.83	.85	.87	.95	1.00	1.00	1.07	1.22	1.57	1.72
Models	10	10	10	10	10	10	10	10	10	10
Weight	.04	.03	.03	.03	.03	.03	.03	.03	.03	.03

(continued)

Table B.18 (continued)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Furniture and fixtures (NIPA table 5.6, row 22):										
Alternative	.83	.88	.91	.95	.98	1.00	1.00	1.06	1.35	1.29
Official	.85	.88	.92	.96	.99	1.00	1.07	1.27	1.39	1.44
Models	15	15	15	15	15	18	17	15	23	26
Weight	.05	.05	.06	.05	.06	.06	.06	.05	.05	.05
Tractors (NIPA table 5.6, row 23):										
Alternative	.87	.88	.93	.98	.97	1.00	1.03	1.07	1.45	1.51
Official	.80	.85	.89	.93	.96	1.00	1.03	1.20	1.44	1.56
Models	29	30	35	24	35	29	37	31	30	35
Weight	.04	.04	.04	.04	.04	.05	.05	.05	.06	.05
Agricultural machinery, except tractors (NIPA table 5.6, row 24):										
Alternative	.75	.78	.81	.88	.95	1.00	1.05	1.09	1.55	1.59
Official	.80	.83	.87	.91	.95	1.00	1.04	1.19	1.36	1.46
Models	16	15	19	20	22	16	16	15	16	34
Weight	.05	.05	.05	.06	.06	.06	.06	.07	.07	.07
Construction machinery, except tractors (NIPA table 5.6, row 25):										
Alternative	.83	.87	.91	.97	.99	1.00	1.02	1.06	1.29	1.36
Official	.79	.82	.85	.92	.97	1.00	1.04	1.18	1.33	1.43
Models	23	22	30	28	26	24	24	28	25	31
Weight	.05	.05	.05	.05	.05	.06	.06	.06	.05	.06
Service industry machinery (NIPA table 5.6, row 27):										
Alternative	.93	.90	.92	.94	.97	1.00	1.02	1.03	1.16	1.15
Official	.90	.93	.94	.97	1.00	1.00	1.01	1.10	1.26	1.33
Models	87	106	119	126	129	132	114	112	132	129
Weight	.05	.05	.05	.05	.05	.05	.04	.04	.04	.04
Electrical equipment, n.e.c. (NIPA table 5.6, row 28):										
Alternative	.82	.85	.91	.93	1.00	1.00	1.04	1.08	1.29	1.25
Official	.85	.88	.91	.96	.98	1.00	1.00	1.10	1.22	1.25
Models	42	56	59	67	66	70	65	64	95	95
Weight	.01	.01	.01	.01	.02	.02	.02	.02	.02	.02
Törnqvist index for sixteen included equipment types:										
Alternative	.92	.91	.93	.96	.99	1.00	1.01	1.04	1.21	1.24
Official	.88	.90	.93	.98	.99	1.00	1.02	1.13	1.26	1.30
Alternative/ official	1.05	1.01	1.00	.99	1.00	1.00	.99	.92	.96	.95
Implicit deflator for sixteen included equipment types:										
Alternative	.90	.91	.92	.96	.99	1.00	1.01	1.03	1.21	1.21
Official	.84	.87	.90	.95	.99	1.00	1.01	1.11	1.25	1.29
Alternative/ official	1.07	1.05	1.03	1.01	1.00	1.00	1.00	.93	.96	.94
Nominal and real—Törnqvist index method—PDE purchases (billions of dollars):										
Nominal	40.4	43.6	48.0	48.9	49.4	55.6	67.4	74.5	76.8	85.2
Real										
alternative	44.0	47.7	51.7	50.8	50.0	55.6	66.9	71.9	63.3	68.8
official	46.1	48.4	51.7	50.1	49.8	55.6	66.1	66.1	61.1	65.3
Nominal and real—implicit deflator method—PDE purchases (billions of dollars):										
Nominal	40.4	43.6	48.0	48.9	49.4	55.6	67.4	74.5	76.8	85.2
Real										
alternative	44.9	47.8	51.9	50.9	50.1	55.6	66.9	72.0	63.7	70.5
official	48.1	50.4	53.5	51.4	50.1	55.6	66.6	66.9	61.3	66.2
Number of observations										
	664	753	914	802	758	843	715	731	855	885



Table B.18 (continued)

	1977	1978	1979	1980	1981	1982	1983
Office, computing, and accounting machinery (NIPA table 5.6, row 4):							
Alternative	.66	.62	.51	.43	.36	.30	.24
Official	.73	.71	.68	.60	.57	.55	.45
Models	62	102	83	74	104	111	117
Weight	.09	.09	.10	.11	.13	.14	.14
Communication equipment (NIPA table 5.6, row 5):							
Alternative	1.04	1.03	.94	.82	.85	.88	.76
Official	1.35	1.36	1.39	1.45	1.57	1.71	1.80
Models	16	12	11	13	17	18	9
Weight	.14	.13	.14	.15	.16	.17	.17
Fabricated metal products (NIPA table 5.6, row 9):							
Alternative	1.44	1.49	1.61	2.09	2.16	2.37	2.41
Official	1.48	1.55	1.68	1.93	2.12	2.20	2.29
Models	73	90	87	96	81	97	79
Weight	.06	.06	.06	.06	.06	.05	.05
Engines and turbines (NIPA table 5.6, row 10):							
Alternative	1.56	1.65	1.61	2.29	2.45	2.74	2.75
Official	1.64	1.79	1.95	2.24	2.55	2.73	2.80
Models	22	30	25	38	38	40	33
Weight	.02	.01	.01	.01	.01	.01	.01
Metalworking machinery (NIPA table 5.6, row 11):							
Alternative	1.48	1.55	1.61	1.66	1.90	2.05	2.13
Official	1.52	1.65	1.84	2.07	2.29	2.38	2.39
Models	26	35	35	31	42	39	23
Weight	.09	.09	.09	.10	.09	.08	.08
General industrial equipment (NIPA table 5.6, row 13):							
Alternative	1.29	1.40	1.46	1.55	1.70	1.89	2.01
Official	1.55	1.65	1.77	1.98	2.20	2.32	2.30
Models	19	22	22	19	21	25	17
Weight	.09	.09	.09	.09	.09	.08	.08
Electrical transmission, distribution, and industrial apparatus (NIPA table 5.6, row 14):							
Alternative	1.30	1.36	1.38	1.46	1.89	2.04	2.13
Official	1.41	1.49	1.61	1.81	2.00	2.15	2.24
Models	23	25	23	19	21	25	20
Weight	.06	.06	.06	.06	.06	.06	.06
Autos (NIPA table 5.6, row 17):							
Alternative	1.19	1.28	1.23	1.38	1.52	1.63	1.74
Official	1.15	1.29	1.45	1.75	1.54	1.45	1.40
Models	167	155	151	149	155	124	144
Weight	.12	.10	.08	.08	.08	.09	.09
Aircraft (NIPA table 5.6, row 18):							
Alternative	1.35	1.41	1.42	1.56	1.72	1.78	1.74
Official	1.50	1.65	1.82	2.03	2.23	2.47	2.53
Models	66	81	118	115	75	38	52
Weight	.03	.04	.05	.05	.05	.05	.05
Railroad equipment (NIPA table 5.6, row 20):							
Alternative	1.66	1.77	1.91	2.08	2.29	2.33	2.30
Official	1.85	2.01	2.21	2.43	2.72	2.80	2.80
Models	10	10	10	10	10	10	10
Weight	.03	.03	.04	.03	.02	.01	.01

(continued)

Table B.18 (continued)

	1977	1978	1979	1980	1981	1982	1983
Furniture and fixtures (NIPA table 5.6, row 22):							
Alternative	1.39	1.47	1.60	1.76	1.77	1.97	2.11
Official	1.53	1.64	1.82	1.94	2.14	2.30	2.38
Models	22	22	18	16	17	18	18
Weight	.05	.05	.05	.06	.06	.07	.07
Tractors (NIPA table 5.6, row 23):							
Alternative	1.75	1.83	1.91	1.92	2.06	2.17	2.12
Official	1.70	1.85	2.04	2.29	2.53	2.77	2.91
Models	21	23	34	36	41	38	33
Weight	.05	.05	.05	.04	.04	.03	.03
Agricultural machinery, except tractors (NIPA table 5.6, row 24):							
Alternative	1.67	1.82	2.13	2.35	2.43	2.72	2.81
Official	1.58	1.71	1.90	2.14	2.42	2.61	2.73
Models	49	43	41	34	52	55	43
Weight	.06	.06	.06	.06	.05	.04	.04
Construction machinery, except tractors (NIPA table 5.6, row 25):							
Alternative	1.39	1.52	1.70	1.82	1.96	2.14	2.31
Official	1.62	1.76	1.91	2.14	2.28	2.47	2.52
Models	21	21	20	20	18	22	15
Weight	.06	.07	.06	.05	.05	.04	.04
Service industry machinery (NIPA table 5.6, row 27):							
Alternative	1.16	1.19	1.25	1.30	1.38	1.39	1.41
Official	1.39	1.46	1.55	1.71	1.83	1.94	2.01
Models	118	144	152	145	208	224	233
Weight	.04	.04	.04	.04	.04	.04	.04
Electrical equipment, n.e.c. (NIPA table 5.6, row 28):							
Alternative	1.31	1.35	1.42	1.64	1.66	1.81	1.88
Official	1.34	1.42	1.60	1.71	1.83	1.86	1.84
Models	75	97	104	89	162	173	176
Weight	.02	.02	.02	.02	.03	.03	.03
Törnqvist index for sixteen included equipment types:							
Alternative	1.26	1.31	1.32	1.37	1.43	1.49	1.45
Official	1.36	1.43	1.53	1.66	1.76	1.83	1.82
Alternative/ official	.93	.92	.86	.82	.82	.81	.80
Implicit deflator for sixteen included equipment types:							
Alternative	1.22	1.24	1.21	1.15	1.09	1.02	.84
Official	1.33	1.40	1.48	1.52	1.52	1.52	1.33
Alternative/ official	.91	.89	.82	.75	.72	.67	.63
Nominal and real—Törnqvist index method—PDE purchases (billions of dollars):							
Nominal	105.3	127.5	148.9	156.3	169.9	161.2	170.6
Real							
alternative	83.6	97.1	112.6	114.5	118.5	108.3	117.9
Real							
official	77.5	88.9	97.1	94.2	96.7	88.0	93.9
Nominal and real—Implicit deflator method—PDE purchases (billions of dollars):							
Nominal	105.3	127.5	148.9	156.3	169.9	161.2	170.6
Real							
alternative	86.6	102.6	123.6	136.0	155.2	158.2	203.5
Real							
official	79.0	91.3	100.9	102.6	111.4	106.0	128.7
Number of observations							
	790	912	934	904	1,062	1,057	1,022

**Notes to Table B.1**

**A. 10-key adding machines:** *Sears:* Quality dimensions held constant: ability to multiply and subtract directly, number of columns listed, whether electric, presence of clear key, repeat key, nonadd key, and metal casing. *PPI:* 1947–59, index (old code) 11-53-02, “full keyboard adding machines”; 1960–76, index 11-93-01-07, “electric ten-key adding machine”; 1977–83, index 11-93-01 (note: this comparison should stop when that index disappears). *Weight:* Variable weight on noncomputer systems (see chap. 6) times one-third NIPA weight applied to category 11-93-01, “office and store machines and equipment, calculating and accounting machines.”

**B. Cash registers:** *Sears:* Quality dimensions held constant: whether manual or electric, number of keys, presence of subtotal, correction key, multiplier, tumbler lock, and tape rewind. *PPI:* 1953–59, index 11-93-01, “calculating and accounting machines”; 1960–76, index 11-93-01-06, “electric cash register, electromechanical”; 1977–78, index 11-93-01-11, “POS electrical cash register”; 1979–83, index 11-93-01. *Weight:* Variable weight on noncomputer systems (see chap. 6) times one-third NIPA weight applied to category 11-03-01, “office and store machines and equipment, calculating and accounting machines.”

**C. Manual typewriters:** *Sears:* Quality dimensions held constant; size, whether standard or portable, number of keys, weight. *PPI:* 1948–83, index 11-93-03-13, “manual portable typewriters.” *Weight:* Variable weight on noncomputer systems (see chap. 6) times NIPA weight applied to category 11-93-03-13, “portable manual typewriter.”

**D. Electric typewriters:** *Sears:* Quality dimensions held constant: size, type, number of keys, weight. *PPI:* 1958–68, index 11-93-03-12, “standard electric typewriter”; 1969–83, index 11-93-03-14, “portable electric typewriter.” *Weight:* Variable weight on noncomputer systems (see chap. 6) times NIPA weight applied to category 11-93-03-12, “standard electric typewriter.”

**E. Electronic computing machines:** *Hedonic index:* See discussion in chap. 6. *BEA index for computer systems:* See discussion in chap. 6. *Weight:* Variable weight on computer systems (see chap. 6).

**F. Electronic calculators:** *Sears:* Quality dimensions held constant: type of display, presence of constant key, memory, printing. *PPI:* 1970–76, index 11-93-01-03, “electronic nonprinting calculators”; 1977–80, index 11-93-01-05, “electronic printing calculators”; 1981–83, index 11-93-01, “office and store machines and equipment, calculating and accounting machines.” *Weight:* Variable weight on noncomputer equipment (see chap. 6) times one-third NIPA weight applied to category 11-93-01, “office and store machines and equipment, calculating and accounting machines.”

*Coverage calculation:* The weights listed above account for 95.5 percent of the total NIPA weight for 1981 in the office, computing, and accounting machinery category.

**Notes to Table B.2**

**A. Telephone apparatus and equipment:** *Flamm:* Telephone transmission and switching equipment, see text discussion in chap. 9. *BEA:* AT&T TPI index for “inside plants.” *Weight:* 95 percent fixed weight.

**B. Radio receivers:** *Sears:* Quality dimensions held constant: bands (AM, FM, or both), size of speaker, presence of earphones, type (console, table, or portable). *PPI:*

1947–52, index 12-5, “home electronic equipment”; 1953–72, index 12-51-01-02, “table radio receivers”; 1973–83, index 12-51, “radio receivers.” *Weight*: One-third of weight not applied to category 1.

*C. Table television sets: Consumer Reports*: See text discussion in chap. 7. *PPI*: 1947–52, index 12-5, “home electronic equipment”; 1953–83, index 12-52, “television receivers.” *Weight*: Two-thirds of weight not applied to category 1.

*Coverage calculation*: Weights account for 44.52 percent of total 1967 NIPA weight in communication equipment.

### Notes to Table B.3

*A. Gas warm air furnaces: Sears*: Quality dimensions held constant: BTU, flue size, motor horsepower, overall exterior size, length of guarantee, and whether manual or automatic control. *PPI*: 1951–83, index 10-62-01-42, “warm air furnaces, steel, forced air, gas.” *Weight*: 20 percent of NIPA weight applied to category 10-61, “steam and hot water equipment,” table B.3, row 2b.

*B. Gas hot water heaters: Sears*: Based on hedonic regression, see text of chap. 10. *PPI*: 1947–66, index 10-66, “water heaters, domestic”; 1967–83, index 10-66-01-13, “domestic, gas water heater.” *Weight*: 20 percent of NIPA weight applied to category 10-61, “steam and hot water equipment,” table B.3, row 2b.

*C. Water storage tanks: Sears*: Quality dimensions held constant: presence of insulation, presence of glass or epoxy lining, presence of heavy-gauge steel, presence of built-in anode “against corrosion and electrolysis,” working pressure, length of guarantee, capacity, and weight. *PPI*: 1948–80, index 10-72-01-01, “pressure tank, above ground”; 1981–83, index 10-72, “metal tanks.” *Weight*: Sum of NIPA weights applied to indexes 10-72-01-01 (“pressure tank, above ground”), 10-72-01-12 (“bulk storage tanks, 6,000 gallons”), and 10-72-01-13 (“bulk storage tanks, 10,000 gallons”).

*D. Steam boilers for electricity generation: Hedonic*: Based on hedonic regression, see text of chap. 5. *PPI*: 1948–61, index 10-72-01-01, “pressure tanks, above ground”; 1962–82, index 10-72-01-03, “pressure vessel, 30,000 gallons.” *Weight*: NIPA weight applied to index 10-72-01-03, “pressure vessel, 30,000 gallons.”

*E. Brass gate valves: Sears*: Quality dimensions held constant: size, pressure, type (globe or gate). *PPI*: 1947–83 index, 11-49-01-02, “gate valve, brass or bronze, 1 inch”; 1983 index, 11-49-02-01 “gates, globes, angles, and checks.” *Weight*: Half NIPA weight applied to index 10-49-01, “miscellaneous general purpose equipment, valves, and fittings.”

*F. Steel safes: Sears*: Quality dimensions held constant: exterior size, interior size, weight, volume, and type (chest, floor, or wall). *PPI*: 1947–83, index 11-93-05-21, “safes, cabinet-type.” *Weight*: Sum of NIPA weights applied to index 10-32-01-11, “barrels, irons and pails, steel barrels, 55 gallons,” and index 11-93-05-21, “safe, cabinet-type.” In 1981, 6 percent of the combined weight was attributed to the index for barrels and 94 percent to the index for safes.

*G. Cast iron radiators and convectors: Unit value*: See text discussion in chap. 11. *PPI*: 1947–69, index 10-61-01-21, “radiation, 25” high, cast iron”; 1970–76, index 11-49-01-11, “cast iron flange union.” *Weight*: 20 percent of NIPA weight applied to category 10-61, “Steam and hot water equipment,” table B.3, row 2b.

*H. PVC piping: Sears*: Quality dimensions held constant: pressure rating, weight, dimensions, whether or not drain pipe. *PPI*: 1967–69, index 10-25-02-52, “copper

water tubing, straight lengths"; 1970–78, index 07-21-01-02, "rigid PVC pressure piping"; 1979–83, index 07-21, "plastic construction products." *Weight*: Half NIPA weight applied to index 10-49-01, "miscellaneous general purpose equipment, valves, and fittings."

**I. Electric furnaces:** *Sears*: Quality dimensions held constant: BTU, flue size, motor horsepower, kilowatts, amps, overall exterior size, length of guarantee, and whether manual or automatic control. *PPI*: 1973–82, index 10-62-01-59, "electric furnaces, forced-air, 10 KW." *Weight*: 20 percent of NIPA weight applied to category 10-61, "steam and hot water equipment," table B.3, row 2b.

**J. Electric hot water heaters:** *Sears*: Quality dimensions held constant: BTU, size in gallons, number of stages, amp fuses, watts, number of elements, whether in cabinet, presence of power miser, whether glass lined. *PPI*: 1968–83, index 10-66-01-01, "water heaters, domestic." *Weight*: 20 percent of NIPA weight applied to category 10-61, "steam and hot water equipment." table B.3, row 2b.

**K. Prefabricated metal buildings:** *Sears*: Quality dimensions held constant: weight, inside dimensions, door size, cubic feet, roof type, materials. *PPI*: 1961–81, index 10-74-01-45, "metal buildings, steel, rigid frame"; 1982–83, index 10-79, "prefabricated metal buildings." *Weight*: Half NIPA weight applied to category 10-73, "sheet metal products."

**L. Chain link fencing:** *Sears*: Quality dimensions held constant: gauge, weight, height, size of mesh, length, type, presence of gate or post. *PPI*: 1955–83, index 10-88-06-13, "chain link fencing." *Weight*: Half NIPA weight applied to category 10-73, "sheet metal products."

*Coverage calculation*: Weights listed above account for 89.2 percent of total NIPA weight in fabricated metal products category.

#### **Notes to Table B.4**

**A. Steam turbine generators:** *Hedonic*: Based on hedonic regression, see text of chap. 5. *PPI*: 1948–70, index 11-73-02-27, "steam generator set"; 1971–82, index 11-73-02, "generators and generator sets." *Weight*: 40 percent of NIPA weight for engines and turbines is assumed to apply to turbines and 60 percent to internal combustion engines. Thus, the weight attributed to this category is 40 percent of the NIPA weight attributed to category 11-73-02, "generators and generator sets."

**B. Gasoline engines, 11 hp and over:** *Unit value*: See text discussion in chap. 11. *PPI*: 1947–83, index 11-94-01, "gasoline engines." *Weight*: 60 percent of NIPA weight applied to category 11-94-01, "internal combustion engines—gasoline."

**C. Outboard motors:** *Sears*: Based on hedonic regression, see text of chap. 10. *PPI*: 1948–83, index 11-94-02-11, "outboard motors, 5–15 hp." *Weight*: 60 percent of NIPA weight applied to category 11-94-02, "internal combustion engines, outboard motors."

**D. Diesel engines, except automotive:** *Unit value*: See text discussion in chap. 11. *PPI*: 1947–83, index 11-94-03, "diesel engines, other than automotive." *Weight*: 60 percent of NIPA weight applied to category 11-94-03, "diesel engines, other than automotive."

*Coverage calculation*: The weights listed above account for 83.7 percent of the total NIPA weight in the engines and turbines category.

**Notes to Table B.5**

**A. Drill presses:** *Sears:* Quality dimensions held constant: number of speeds, size, horsepower of motor, whether floor or bench model, and chuck capacity. *PPI:* 1947–72, index 11-3, “metalworking machinery and equipment”; 1973–83, index 11-37-12, “drilling machines.” *Weight:* One-quarter of NIPA weight applied to index 11-3, “metalworking machinery and equipment.”

**B. Metal lathes:** *Sears:* Quality dimensions held constant: size of swing, size of centers, number of speeds, number of feeds, whether bench or floor model, presence of cabinet, and type of cabinet. *PPI:* 1947–71, index 11-3, “metalworking machinery and equipment”; 1972–83, index 11-37-14, “lathes.” *Weight:* One-quarter of NIPA weight applied to index 11-3, “metalworking machinery and equipment.”

**C. Free-standing power saws:** *Sears:* Quality dimensions held constant: whether bench, band, or radial saw, blade size, motor horsepower, maximum cutting depth, number of speeds, whether blade guard, and size of work space. *PPI:* 1947–83, index 11-3, “metalworking machinery and equipment.” *Weight:* One-quarter of NIPA weight applied to index 11-3, “metalworking machinery and equipment.”

**D. Quarter-inch hand power drills:** *Sears:* Quality dimensions held constant: load-free rpm, presence of toggle or trigger switch, maximum horsepower, full-load horsepower, and chuck capacity. *PPI:* 1947–83, index 11-32-02-21, “drill ¼ inches”; 1980–83, index 11-32-02, “electrical home utility line.” *Weight:* One-fifth of NIPA weight applied to indexes 11-32-01 and 11-32-02, “power driven hand tools.”

**E. Half-inch hand power drills:** *Sears:* Quality dimensions held constant: no-load rpm, full-load horsepower, whether or not reversible, chuck capacity, special type (right-angle), whether toggle or trigger switch. *PPI:* 1947–80, index 11-32-03-02, “drill ½ inch chuck size and over”; 1981–83, index 11-32-03, “electrical industrial line.” *Weight:* One-fifth of NIPA weight applied to indexes 11-32-01 and 11-32-02, “power driven hand tools.”

**F. Hand power saws:** *Sears:* Quality dimensions held constant: blade size, cutting depth, free blade speed (rpm), horsepower rating, whether with or without case. *PPI:* 1947–82, index 11-32-02-23, “circular saws”; 1983, index 11-32-02, “electrical home utility line.” *Weight:* One-fifth of NIPA weight applied to indexes 11-32-01 and 11-32-02, “power driven hand tools.”

**G. Hand power sanders:** *Sears:* Quality dimensions held constant: belt type, belt width, number of drums, whether with or without case, presence of magnetic power unit, and strokes per minute. *PPI:* 1947–83, index 11-32-02-24, “oscillating, reciprocating and vibrating sanders.” *Weight:* One-fifth of NIPA weight applied to indexes 11-32-01 and 11-32-02, “power driven hand tools.”

**H. Transformer arc welders:** *Sears:* Quality dimensions held constant: ampere capacity, maximum input (amperes), fuses (amperes), rod sizes, maximum KVA, maximum KW, number of heats, whether gas engine, whether manual start. *PPI:* 1947–83, index 11-33-01-01, “arc welders, transformer type, A.C.-D.C.” *Weight:* One-fifth of NIPA weight applied to indexes 11-32-01 and 11-32-02, “power driven hand tools.”

**I. Acetylene welding torches:** *Sears:* Quality dimensions held constant: length, type, whether twin carbon. *PPI:* 1947–82, index 11-33-04-52, “welding torches, blow type”; 1983, index 11-33-04, “gas welding machines and equipment.” *Weight:*

One-third of NIPA weight applied to index 11-32-04, "gas welding machines and equipment."

**J. Acetylene cutting tools: Sears:** Quality dimensions held constant: size, whether with tip, whether wrench included, whether twin-carbon torch. *PPI:* 1947-83, index 11-33-04-53, "cutting tools, blow type." *Weight:* One-third of NIPA weight applied to index 11-32-04, "gas welding machines and equipment."

**K. Acetylene single-stage welding outfits: Sears:** Quality dimensions held constant: hose length and thickness, torch length, hose pressure, miscellaneous equipment included. *PPI:* 1947-83, index 11-33-04-54, "flame cutting machines." *Weight:* One-third of NIPA weight applied to index 11-32-04, "gas welding machines and equipment."

**L. Drill bits: Sears:** Quality dimensions held constant: diameter, length. 1976-83 coverage includes hand and power drills, not just bits. *PPI:* 1947-83, index 11-35-01-03, "twist drills." *Weight:* Half NIPA weight applied to index 11-35-01, "cutting tools and accessories, small cutting tools."

**M. Power saw blades: Sears:** Quality dimensions held constant: gauge, diameter, rpm, type. *PPI:* 1947-82, index 11-35-01-29, "power hack saw blades"; 1983, index 11-35-03, "metalworking power saw blades." *Weight:* Half NIPA weight applied to index 11-35-01, "cutting tools and accessories, small cutting tools."

**N. Micrometer calipers: Sears:** Quality dimensions held constant: type of tip and steel, type of spindle, type of frame, degree of precision, size, whether chrome plated, whether frame with decimal lock and ratchet or frame, miscellaneous detailed quality characteristics. *PPI:* 1947-83, index 11-35-02-42, "micro-meter calipers." *Weight:* One-quarter of NIPA weight applied to index 11-3, "metalworking machinery and equipment."

*Coverage calculation:* The weights listed above account for 85.7 percent of the total NIPA weight in the metalworking machinery category.

### Notes to Table B.6

**A. Stationary air compressors: Sears:** Quality dimensions held constant: horsepower, delivered air (cubic feet per minute), tank size, weight, cutout pressure per square inch, whether electric or gas, and whether two stage. *PPI:* 1947-70, index 11-41-03-03, "stationary air compressors, 75-125 HP"; 1971-83, index 11-41-03-01, "stationary air compressors, 5 HP." *Weight:* Half NIPA weight applied to category 11-41, "pumps, compressors, and equipment."

**B. Centrifugal pumps: Sears:** Quality dimensions held constant: horsepower, performance (gallons per minute at twenty-five-foot lift), whether gas or electric, size of suction pipe, size of discharge pipe, whether self-priming, and whether iron or aluminum. *PPI:* 1947-70, index 11-41-02-08, "centrifugal pumps, 3000 GPM"; 1971-72, index 11-41-02-21, "centrifugal pumps"; 1973-83, index 11-41-02-04, "centrifugal pumps, 90 GPM." *Weight:* Half NIPA weight applied to category 11-41, "pumps, compressors, and equipment."

**C. Differential chain hoists: Sears:** Quality dimensions held constant: ton capacity, lift in feet, and length of chain in feet. *PPI:* 1947-83, index 11-44-04-91, "hand chain hoists, spur gear." *Weight:* NIPA weight applied to category 11-44, "industrial material handling equipment."

**D. Propellor fans: Sears:** Quality dimensions held constant: fan size, weight, number of speeds, cubic feet per minute, size, motor horsepower, mount, whether

V-belt, whether variable speed. *PPI*: 1948–83, index 11-47-01-11, “propellor fans.” *Weight*: NIPA weight applied to category 11-47, “fans and blowers, except portable.”

**E. Fire extinguishers:** *Sears*: Quality dimensions held constant: weight, amount of charge, size, rating, type of material, type of metal used in case. *PPI*: 1947–83, index 15-99, “fire extinguishers.” *Weight*: NIPA weight applied to category 11-4, “general purpose machinery and equipment.”

*Coverage calculation*: The weights listed above account for 84.0 percent of the total NIPA weight in the general industry machinery category.

#### *Notes to Table B.7*

**A. Tachometers:** *Sears*: Quality dimensions held constant: whether tachometer, dwellmeter, or both, number of cylinders, number of volts, type of dial, scale in rpm, degrees of sweep, and degree of accuracy in percent. *PPI*: 1947–83, index 11-72-01, “electrical (direct meas.) instruments.” *Weight*: One-third of NIPA weight applied to index 11-72-01, “electrical (direct meas.) instruments.”

**B. Electronic auto tester:** *Sears*: Quality dimensions held constant: number, types, and characteristics of electric meters. For instance, 1947 model contains regulator-generator tester, double-scale voltmeter (zero to three and zero to fifteen volts), ammeter, five to sixty-five amps), tester for cutouts and lighting circuits. *PPI*: 1947–83, index 11-72-01, “electrical (direct meas.) instruments.” *Weight*: One-third of NIPA weight applied to index 11-72-01, “electrical (direct meas.) instruments.”

**C. Panel-type ammeters:** *Sears*: Quality dimensions held constant: negative and positive range, and whether extra oil pressure gauge and water temperature gauge are included. *PPI*: 1948–83, index 11-72-01, “electrical (direct meas.) instruments.” *Weight*: One-third of NIPA weight applied to index 11-72-01, “electrical (direct meas.) instruments.”

**D. Fractional horsepower electric motors:** *Sears*: Quality dimensions held constant: horsepower, whether split phase or capacitor type, whether ball bearing or sleeve, shaft size, and revolutions per minute. *PPI*: 1947–82, an average of indexes 11-73-01-05 and 11-73-01-06, “A.C. fractional horsepower electric motors, with respectively  $\frac{1}{4}$  and  $\frac{1}{2}$  horsepower”; 1983, index 11-73-03, “fractional HP motors and generators.” *Weight*: NIPA weight applied to indexes 11-73-01-06, -11, -12, -13, and -19, all electric motors of differing horsepower.

**E. Power transformers:** *Kravis-Lipsev*: See chap. 9 discussion. *PPI*: 1954–64, index 11-74-01-13, “power transformers, 5000 KV.” *Weight*: Fixed 35 percent weight of overall category on 1954–64.

**F. Voltage regulators:** *Sears*: Quality dimensions held constant: whether alternator or generator. *PPI*: 1947–80, index 11-74-01-21, “feeder voltage regulators, 76.2 KVA”; 1981–83, index 11-74, “transformers and power regulators.” *Weight*: One-sixth of NIPA weight applied to index 11-74, “transformers and power regulators,” on 1954–64, half otherwise.

**G. Fusible-type panelboards:** *Sears*: Quality dimensions held constant: number of wires and volts. *PPI*: 1950–83, index 11-75-01-01, “panelboards, distribution, fusible.” *Weight*: Half NIPA weight applied to index 11-75-01, “switchgear, switchboard etc. equipment, panelboards.”

**H. Circuit breaker-type panelboards:** *Sears*: Quality dimensions held constant: amps of main circuit, number of branch circuit, style of cabinet, and whether circuit



breakers are one pole or two pole. *PPI*: 1954–83, index 11-75-01-02, “circuit-breaker-type panelboard.” *Weight*: Half NIPA weight applied to index 11-75-01, “switchgear, switchboard, etc. equipment, panelboards.”

**I. Indoor safety switches:** *Sears*: Quality dimensions held constant: whether dual volt, number of amps, and number of plug or cartridge fuses. *PPI*: 1947–83, index 11-75-02-12, “safety switches, a-c, 3 pole, 60 A.” *Weight*: Half NIPA weight applied to index 11-75-04, “switchgear, switchboard etc., equipment.”

**J. Circuit breakers:** *Sears*: Quality dimensions held constant: number of poles, and ampere capacity. *PPI*: 1947–83, index 11-73-03-21, “circuit breakers, A.C.” *Weight*: NIPA weight applied to index 11-74-03, “switchgear, switchboard etc., equipment, circuit breakers.”

**K. Outdoor power switches:** *Sears*: Quality dimensions held constant: ampere capacity, number of cartridge fuses, number of plug fuses. *PPI*: 1948–64, index 11-75-02-12, “safety switches, A.C., 3 pole, 60 A”; 1965–74, index 11-75-04-51, “disconnect switches, 600 A”; 1975–82, index 11-75-04-53, “bus duct plug in switches, 600 A.” *Weight*: Half NIPA weight applied to index 11-75-04, “switchgear, switchboard etc., equipment.”

*Coverage calculation*: The weights listed above account for 63.3 percent of the total NIPA weight in the electrical transmission, distribution, and industrial apparatus category.

#### **Notes to Table B.8**

**A. Autos:** *Alternative index*: See text discussion in chap. 8. *Official*: NIPA implicit deflator for new cars, tables 5.6 and 5.7 of NIPA. *Weight*: This component of PDE contains only one product.

#### **Notes to Table B.9**

**A. Aircraft:** *Alternative index*: See text discussion in chap. 4. *Official*: NIPA implicit deflator, tables 5.6 and 5.7 of NIPA. *Weight*: This component of PDE contains only one product.

#### **Notes to Table B.10**

**A. Railroad equipment:** *Alternative index*: Railroad locomotive and freight cars, see text discussion in chap. 9. *Official*: NIPA implicit deflator for railroad equipment, tables 5.6 and 5.7 of NIPA. *Weight*: This component of PDE contains only one product.

#### **Notes to Table B.11**

**A. Typewriter tables:** *Sears*: Quality dimensions held constant: height, dimensions of top both open and closed, weight, material used for legs and top, number of drawers, utility shelf, brakes, casters with or without elevators. *PPI*: No appropriate index. Substituted index 12-22, “metal commercial furniture,” for years 1947–83. *Weight*: Constant weight; 25 percent of December 1973 PPI relative importance of index 12-22-01-01, “metal clerical desk.”

**B. Card files:** *Sears*: Quality dimensions held constant: card size, box size, and number of drawers. *PPI*: No appropriate index. Substituted index 12-22-01-21, “metal filing cabinets,” for 1947–78. *Weight*: Constant weight; 25 percent of December 1973 PPI relative importance of index 12-22-01-21, “metal filing cabinet.”

**C. Fluorescent lighting fixtures:** *Sears:* Quality dimensions held constant: all dimensions of fixture, distance from ceiling, number of tubes, watts per light, whether light bulbs are included or not, type of start (regular, rapid, rapid with diffuser). *PPI:* 1947–60, index 12-22, “metal commercial furniture”; 1961–80, index 10-83-01-31, “commercial fluorescent non-air handling lighting fixtures”; 1981–83, index 10-83-03-23, “commercial fluorescent fixtures, recessed, non-air.” *Weight:* Constant weight; December 1973 PPI relative importance of all PPI indexes covering commercial fluorescent lighting fixtures: 10-83-01-31, -33, -35, and -37.

**D. Steel desks:** *Sears:* Quality dimensions held constant: all dimensions of size, number of box drawers, number of file drawers, number of letter drawers, presence of center drawer, finish of top. Minor year-to-year fluctuations in weight do not seem to be reflected in any visible change in desk. *PPI:* 1950–67, index 12-22, “metal commercial furniture”; 1968–77, index 12-22-01-01, “metal clerical desks”; 1977–79, index 12-22, “metal commercial furniture” 1980–83, index 12-22-03-21, “desks and extensions.” *Weight:* Constant weight; 75 percent of December 1973 PPI relative importance of index 12-22-01-01, “metal clerical desk.”

**E. Filing cabinets:** *Sears:* Quality dimensions held constant: drawer depth, weight, presence of lock, number of drawers, and whether suspension or nonsuspension type. Minor increases in weight in 1959–60 and 1965–66 are not controlled. *PPI:* 1950–79, index 12-22-01-21, “metal filing cabinet”; 1980–83, index 12-22-02-01, “letter filing cabinets.” *Weight:* Constant weight; 75 percent of December 1973 PPI relative importance of index 12-22-01-21, “metal filing cabinet.”

**F. Office swivel chairs:** *Sears:* Quality dimensions held constant: seat size, back size, and weight, whether equipped with adjustable tilt tension. *PPI:* 1949–83, index 12-22-01-11, “swivel office chairs.” *Weight:* Constant weight; December 1973 PPI relative importance of index 12-22-01-11, “metal office chair.”

*Coverage calculation:* Half BEA weight is on household furniture, which is inappropriate for PDE. Of the other half, the BEA weight on commercial furniture is 61.2 percent. Of this, the total relative importance in December 1973, accounted for by the PPI indexes used as weights as listed above, is 70.1 percent. Thus, the coverage of this category of PDE is taken to be 61.2 percent times 70.1 percent, or 42.9 percent.

### Notes to Table B.12

**A. Garden tractors:** *Sears:* Quality dimensions held constant: horsepower, whether equipped with or without tires, whether walk-behind or riding model, whether electric or recoil start, number of speeds or transmission type, number of cylinders, capacity of fuel tank, presence of fuel gauge. *PPI:* 1949–83, index 11-11-05-22, “garden tractors, riding type, 8–12 hp.” *Weight:* 38 percent of NIPA weight for tractors is assumed to apply to farm tractors and 62 percent to construction tractors. Thus, the weight attributed to this category is 38 percent of the NIPA weight attributed to category 11-11-05, “garden tractors and motor tillers.”

**B. Wheel tractors:** *Hedonic:* See text discussion in chap. 9. *PPI:* 1947–83, index 11-11-01, “tractors, wheel-type, farm”; 1983, index 11-11-02-01, “farm tractors, two-wheel drive.” *Weight:* 38 percent of the NIPA weight attributed to category 11-11-01, “tractors, wheel-type, farm.”

**C. Crawler tractors:** *Hedonic:* See text discussion in chap. 9. *PPI:* 1950–83, index 11-28-02, “tractors, other than farm, crawler type.” *Weight:* 62 percent of the NIPA weight attributed to the four categories for crawler tractors, 11-28-02-11, -13, -15, and -17.

*Coverage calculation:* The weights listed above account for 80.2 percent of the total NIPA weight in the tractor category.

**Notes to Table B.13**

**A. Tractor-drawn plows:** *Sears:* Quality dimensions held constant: number of bottoms, size, type of hitch, and whether for farm or garden tractor. *PPI:* 1948–83, index 11-12-01, “plows.” *Weight:* NIPA weight applied to index 11-12-01, “plows.”

**B. Tractor-drawn harrows:** *Sears:* Quality dimensions held constant: width of cut, disc size, number of blades, tooth type (spring or spike), number of teeth, and number of sections. *PPI:* 1948–82, 11-12-02-13, “disc drawn harrows”; 1983, 11-12-03, “planting and fertilizing machinery.” *Weight:* One-third of NIPA weight applied to index 11-12-03, “planting and fertilizing machinery.”

**C. Seeders:** *Sears:* Quality dimensions held constant: capacity, weight, and width, whether heavy-duty, whether electric or PTO. Hand-pushed model 1947–50 and tractor-drawn thereafter. *PPI:* 1947–83, index 11-12-03-22, “drawn corn planters.” *Weight:* One-third of NIPA weight applied to index 11-12-03, “planting and fertilizing machinery.”

**D. Manure spreaders:** *Sears:* Quality dimensions held constant: capacity, number of wheels, whether heavy-duty, and whether PTO driven. *PPI:* 1950–83, index 11-12-03-25, “manure spreader, PTO driven.” *Weight:* One-third of NIPA weight applied to index 11-12-03, “planting and fertilizing machinery.”

**E. Tractor-drawn cultivators:** *Sears:* Quality dimensions held constant: shank type (spring, stiff, or trip-back), width, number of rows, number of shanks, and size of sweep. *PPI:* 1949–82, index 11-12-04, “cultivators”; 1973–82, index 11-12-04-36, “cultivators, rear-mounted, 4-row.” *Weight:* NIPA weight applied to index 11-12-04, “cultivators.”

**F. Sprayers:** *Sears:* Quality dimensions held constant: container capacity, whether hand or tractor driven, number of rows and nozzles, whether tires included, whether pump included, and horsepower of pump. *PPI:* 1947–61, index 11-12-05, “sprayers and dusters”; 1962–82, index 11-12-05-44, “tractor mounted field sprayers”; 1983, index 11-12-05. *Weight:* NIPA weight applied to index 11-12-05, “sprayers and dusters.”

**G. Tractor-mounted mowers:** *Sears:* Quality dimensions held constant: cutting width, whether reel type or rotary type, and number of blades. *PPI:* 1947–83, index 11-12-07-62, “mounted mowers.” *Weight:* NIPA weight applied to index 11-12-07, “haying machinery.”

**H. Portable farm elevators:** *Sears:* Quality dimensions held constant: length, whether single or double chain, and whether extendable. *PPI:* 1948–67, index 11-12, “agricultural machinery, except tractors”; 1968–75, index 11-12-09, “farm elevators”; 1976–83, index 11-12-09-81, “farm elevators, portable, double-chain.” *Weight:* NIPA weight applied to index 11-12-08, “crop preparation machinery.”

**I. Poultry brooders:** *Sears:* Quality dimensions held constant: capacity, whether gas or electric, number of lamps, type and size of lamps. *PPI:* 1947–77, index 11-13-01-03, “gas poultry brooders”; 1978–83, index 11-13-01, “poultry equipment.” *Weight:* NIPA weight applied to index 11-13-01, “poultry equipment.”

*Coverage calculation:* The weights listed above account for 38.8 percent of the total NIPA weight in the agricultural machinery (except tractors) category.

**Notes to Table B.14**

**A. Post-hole diggers:** *Sears:* Quality dimensions held constant: auger and shaft size, horsepower, whether one man or two man. *PPI:* 1956–83, index 11-23-01-01, “trenchers.” *Weight:* One-fifth of NIPA weight applied to index 11-28-06-01, “tractors other than farm, tractor loader 1¼ and under 2 cubic yards.”

**B. Roto spaders:** *Sears:* Quality dimensions held constant: size of motor, width and depth of cut, diameter and number of tines, number of forward and reverse speeds, and whether rotary mower attachment is possible. *PPI:* 1948–81, index 11-23-01-01, “trenchers.” *Weight:* One-fifth of NIPA weight applied to index 11-28-06-01, “tractors other than farm, tractor loader 1¼ and under 2 cubic yards.”

**C. Centrifugal pumps:** *Sears:* Quality dimensions held constant: horsepower, performance (gallons per minute at twenty-five-foot lift), whether gas or electric, size of suction pipe, size of discharge pipe, whether self-priming, and whether iron or aluminum. *PPI:* 1947–70, index 11-41-02-08, “centrifugal pumps, 300 GPM”; 1971–72, index 11-41-01-21, “centrifugal pumps”; 1973–83, index 11-41-02-04, “centrifugal pumps, 90 GPM.” *Weight:* One-fifth of NIPA weight applied to index 11-28-06-01, “tractors other than farm, tractor loader 1¼ and under 2 cubic yards.”

**D. Stationary air compressors:** *Sears:* Quality dimensions held constant: horsepower, delivered air (cubic feet per minute), tank size, weight, cutout pressure per square inch, whether electric or gas, and whether two stage. *PPI:* 1947–70, index 11-41-03-03, “stationary air compressors, 75–125 HP”; 1971–83, index 11-41-03-01, “stationary air compressors, 5 HP.” *Weight:* One-fifth of NIPA weight applied to index 11-28-06-01, “tractors other than farm, tractor loader 1¼ and under 2 cubic yards.”

**E. Portable concrete mixers:** *Sears:* Quality dimensions held constant: drum capacity, batch size, engine size, type of drive, type of fuel, and whether sent from factory or from warehouse. *PPI:* 1947–83, index 11-27-01-11, “portable mixers, 3½ cubic feet and over.” *Weight:* NIPA weight applied to index 11-23, “construction machinery for mounting.”

**F. Differential chain hoists:** *Sears:* Quality dimensions held constant: ton capacity, lift in feet, and length of chain in feet. *PPI:* 1947–83, index 11-44-94-01, “hand chain hoists, spur gear.” *Weight:* One-fifth of NIPA weight applied to index 11-28-06-01, “tractors other than farm, tractor loader 1¼ and under 2 cubic yards.”

*Coverage calculation:* The weights listed above account for 19.5 percent of the total NIPA weight in the construction machinery (except tractors) category.

**Notes to Table B.15**

**A. Gas warm air furnaces:** *Sears:* Quality dimensions held constant: BTU, flue size, motor horsepower, overall exterior size, length of guarantee, and whether manual or automatic control. *PPI:* 1951–83, index 10-62-01-42, “warm air furnace, steel, forced air, gas, 72-88 MBTU.” *Weight:* Half NIPA weight applied to index 10-66, “water heaters, domestic,” and one-quarter of NIPA weight applied to index 11-61, “food product machinery.”

**B. Gas hot water heaters:** *Sears:* Based on hedonic regression, see text of chap. 10. *PPI:* 1947–66, index 10-66, “water heaters, domestic”; 1967–83, index 10-66-01-13, “gas water heaters, domestic.” *Weight:* Half NIPA weight applied to index 10-66, “water heaters, domestic,” and one-quarter of NIPA weight applied to index 11-61, “food product machinery.”

**C. Hand electric sanders: Sears:** Quality dimensions held constant: belt type, belt width, number of drums, whether with or without case, presence of magnetic power unit, and strokes per minute. *PPI:* 1947–83, index 11-32-02-24, “orbital sanders.” *Weight:* One-fifth of NIPA weight applied to index 11-41, “pumps, compressors, and equipment.”

**D. Compressors, all refrigerants except ammonia, open type, over ten horsepower:** *Unit value:* See text discussion in chap. 11. *PPI:* 1947–83, index 11-41, “pumps, compressors, and equipment.” *Weight:* One-fifth of NIPA weight applied to index 11-41, “pumps, compressors, and equipment.”

**E. Compressors and compressor units, ammonia refrigerants:** *Unit value:* See text discussion in chap. 11. *PPI:* 1947–83, index 11-41, “pumps, compressors, and equipment.” *Weight:* One-fifth of NIPA weight applied to index 11-41, “pumps, compressors, and equipment.”

**F. Condensing units, air cooled, hermetic type:** *Unit value:* See text discussion in chap. 11. *PPI:* 1947–83, index 11-41, “pumps, compressors, and equipment.” *Weight:* One-fifth of NIPA weight applied to index 11-41, “pumps, compressors, and equipment.”

**G. Condensing units, water cooled, open type:** *Unit value:* See text discussion in chap. 11. *PPI:* 1947–83, index 11-41, “pumps, compressors, and equipment.” *Weight:* One-fifth of NIPA weight applied to index 11-41, “pumps, compressors, and equipment.”

**H. Condensing units, water cooled, hermetic type:** *Unit value:* See text discussion in chap. 11. *PPI:* 1952–83, index 11-41, “pumps, compressors, and equipment.” *Weight:* One-fifth of NIPA weight applied to index 11-41, “pumps, compressors, and equipment.”

**I. Automatic washing machines: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1948–83, index 11-41-02-11, “automatic washing machines.” *Weight:* Half NIPA weight applied to index 12-41-02, “household appliances, laundry equipment.”

**J. Electric clothes dryers: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1951–57, index 12-41-02, “laundry equipment”; 1958–83, index 12-41-02-32, “electric dryers.” *Weight:* Half NIPA weight applied to index 12-41-02, “household appliances, laundry equipment.”

**K. Refrigerators: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1949–60, index 12-41-03, “refrigeration equipment”; 1961–81, index 12-41-03-36, “refrigerator-freezers”; 1982–83, index 12-41-03. *Weight:* NIPA weight applied to index 12-41-03, “household appliances, refrigeration equipment.”

**L. Room air conditioners: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1953–83, index 12-41-04-45, “room air conditioners.” *Weight:* NIPA weight applied to index 12-41-03-38, “household appliances, room air conditioners.”

**M. Under-counter dishwashers: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1952–66, index 12-41, “major appliances”; 1967–83, index 12-41-04-41, “dishwashers, under-counter.” *Weight:* NIPA weight applied to index 12-41-04-41, “dishwashers, under-counter.”

**N. Microwave ovens: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1968–78, index 12-41-01, “cooking equipment”; 1979–83, index 12-41-01-21, “portable microwave ovens.” *Weight:* One-quarter of NIPA weight applied to index 11-61, “food products machinery.”

**O. Commercial vacuum cleaners: Sears:** Quality dimensions held constant: type (upright or canister), suction, attachments, weight. *PPI:* Index 11-68-01-11, "commercial and industrial vacuum cleaners and parts," except 1974-78 and 1980 (index 12-43-01-11) and 1979 and 1981 (index 12-43). *Weight:* NIPA weight applied to index 12-43-01-11, "vacuum cleaner, canister type."

**P. Automatic coffee makers: Sears:** Quality dimensions held constant: number of cups, brewing time, type of filters, whether automatic timer. *PPI:* 1972-83, index 12-44-01-13, "automatic coffee makers." *Weight:* One-quarter of NIPA weight applied to index 11-61, "food products machinery."

*Coverage calculation:* The weights listed above account for 94.5 percent of the total NIPA weight for 1981 in the service industry machinery category.

#### **Notes to Table B.16**

**A. Tachometers: Sears:** Quality dimensions held constant: whether tachometer, dwellmeter, or both, number of cylinders, number of volts, type of dial, scale in rpm, degrees of sweep, and degree of accuracy in percent. *PPI:* 1947-83, index 11-72-01, "electrical (direct meas.) instruments." *Weight:* One-third of NIPA weight applied to index 12-44, "small electrical appliances."

**B. Electronic auto testers: Sears:** Quality dimensions held constant: number, types, and characteristics of electric meters. For instance, 1947 model contains regulator-generator tester, double-scale voltmeter (0 to 3 and 0 to 15 volts), ammeter (5 to 65 amps), tester for cutouts and lighting circuits. *PPI:* 1947-83, index 11-72-01, "electrical (direct meas.) instruments." *Weight:* One-third of NIPA weight applied to index 12-44, "small electrical appliances."

**C. Panel-type ammeters: Sears:** Quality dimensions held constant: negative and positive range, and whether extra oil pressure gauge and water temperature gauge are included. *PPI:* 1948-83, index 11-72-01, "electrical (direct meas.) instruments." *Weight:* One-third of NIPA weight applied to index 12-44, "small electrical appliances."

**D. Replacement auto batteries: Sears:** Quality dimensions held constant: fillable or presealed, number of cells, amps and volts, length of guarantee. *PPI:* 1948-83, index 11-79-01-01, "storage batteries, automotive, 12-volt, replacement." *Weight:* NIPA weight applied to index 11-79-01, "storage batteries."

**E. Fluorescent lighting fixtures: Sears:** Quality dimensions held constant: all dimensions of fixture, distance from ceiling, number of tubes, watts per light, whether light bubs are included, type of start (regular, rapid, rapid with diffuser). *PPI:* 1947-60, index 12-22, "metal commercial furniture"; 1961-80, index 10-83-01-31, "commercial fluorescent, non-air handling lighting fixtures"; 1981-83, index 10-83-03-23, "commercial fluorescent fixtures, recessed non-air." *Weight:* NIPA weight applied to indexes 10-83, "lighting fixtures," and 10-83-01-23, "lighting fixtures, commercial or residential incandescent, square recessed."

**F. Commercial vacuum cleaners: Sears:** Quality dimensions held constant: type (upright or canister), suction, attachments, weight. *PPI:* 1972-81, index 12-43-01-11, "canister, tank, and all general purpose vacuum"; 1982-83, index 11-68-01-11, "commercial and industrial vacuum cleaners." *Weight:* NIPA weight applied to category 11-43-01-11, "vacuum cleaner, canister type."

**G. Automatic washing machines: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1948–83, index 12-41-02-11, “automatic washing machines.” *Weight:* One-sixth of NIPA weight applied to index 12-41, “major household appliances.”

**H. Electric clothes dryers: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1951–83, index 12-41-02-32, “electric clothes dryers.” *Weight:* One-sixth of NIPA weight applied to index 12-41, “major household appliances.”

**I. Refrigerators: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1947–60, index 12-41-03, “refrigeration equipment”; 1961–81, index 12-41-03-36, “refrigerator-freezers”; 1982–83, index 12-41-03. *Weight:* One-sixth of NIPA weight applied to index 12-41, “major household appliances.”

**J. Room air conditioners: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1953–83, index 12-41-04-45, “room air conditioners.” *Weight:* One-sixth of NIPA weight applied to index 12-41, “major household appliances.”

**K. Under-counter dishwashers: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1952–66, index 12-41, “major appliances”; 1967–83, index 12-41-04-41, “undercounter dishwashers.” *Weight:* One-sixth of NIPA weight applied to index 12-41, “major household appliances.”

**L. Microwave ovens: Consumer Reports:** See text discussion in chap. 7. *PPI:* 1968–78, index 12-41-01, “cooking equipment”; 1979–83, index 12-41-01-21, “portable microwave ovens.” *Weight:* One-sixth of NIPA weight applied to index 12-41, “major household appliances.”

*Coverage calculation:* The weights listed above account for 63.3 percent of the total NIPA weight in the electrical equipment, n.e.c., category.

#### **Notes to Table B.18**

Total number of products included in this study—110. Number of observations per year on average—692 for 25,605 total observations.