

This PDF is a selection from an out-of-print volume from the National Bureau of Economic Research

Volume Title: The Measurement of Durable Goods Prices

Volume Author/Editor: Robert J. Gordon

Volume Publisher: University of Chicago Press

Volume ISBN: 0-226-30455-8

Volume URL: <http://www.nber.org/books/gord90-1>

Conference Date: n/a

Publication Date: January 1990

Chapter Title: Appendix C (Tables C.1-C.6). "Secondary" PDE Categories, Annual Listing of Alternative and Official Price Indexes (1972 = 1.00)

Chapter Author: Robert J. Gordon

Chapter URL: <http://www.nber.org/chapters/c8323>

Chapter pages in book: (p. 696 - 704)

Appendix C

*“Secondary” PDE Categories, Annual Listing of Alternative and Official Price Indexes (1972 = 1.00)***List of Tables**

- C.1 Instruments and Photocopy 696
- C.2 Special Industry Machinery 697
- C.3 Trucks, Buses, and Truck Trailers 698
- C.4 Ships and Boats 699
- C.5 Other Equipment 700
- C.6 Mining and Oilfield Machinery 701

Table C.1 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Rows 6 and 7, Instruments and Photocopy

Year	Alternative	Official	Alternative/Official
1947	1.49	.57	2.63
1948	1.50	.60	2.52
1949	1.51	.61	2.49
1950	1.46	.63	2.35
1951	1.54	.70	2.21
1952	1.55	.69	2.24
1953	1.52	.71	2.16
1954	1.55	.73	2.12
1955	1.55	.75	2.07
1956	1.61	.79	2.04
1957	1.65	.84	1.96
1958	1.66	.86	1.92
1959	1.57	.88	1.79
1960	1.56	.90	1.74
1961	1.56	.91	1.72
1962	1.55	.91	1.71
1963	1.53	.91	1.68
1964	1.52	.91	1.66
1965	1.47	.91	1.61
1966	1.43	.93	1.54
1967	1.43	.95	1.50
1968	1.44	.99	1.46
1969	1.48	1.01	1.46
1970	1.49	1.03	1.45
1971	1.30	1.05	1.24
1972	1.00	1.00	1.00
1973	1.01	1.01	1.00
1974	.97	1.02	.96
1975	.90	1.01	.89
1976	.82	.97	.85
1977	.80	.96	.84
1978	.80	1.00	.80
1979	.75	1.03	.73
1980	.76	1.06	.72
1981	.81	1.11	.73
1982	.86	1.14	.75
1983	.86	1.16	.75

Table C.2 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 12, Special Industry Machinery

Year	Alternative	Official	Alternative/Official
1947	1.21	.66	1.84
1948	1.22	.70	1.75
1949	1.25	.73	1.72
1950	1.18	.76	1.50
1951	1.21	.81	1.49
1952	1.17	.81	1.45
1953	1.16	.82	1.41
1954	1.15	.82	1.40
1955	1.13	.84	1.34
1956	1.14	.88	1.30
1957	1.15	.91	1.26
1958	1.11	.90	1.23
1959	1.06	.92	1.15
1960	1.05	.92	1.14
1961	1.01	.90	1.13
1962	1.00	.90	1.11
1963	.98	.89	1.11
1964	.96	.89	1.08
1965	.93	.89	1.05
1966	.91	.90	1.01
1967	.90	.91	.98
1968	.88	.94	.93
1969	.91	.96	.95
1970	.93	.98	.95
1971	.97	.99	.98
1972	1.00	1.00	1.00
1973	1.02	1.02	1.00
1974	1.04	1.13	.92
1975	1.19	1.29	.93
1976	1.22	1.36	.90
1977	1.25	1.43	.87
1978	1.29	1.52	.85
1979	1.35	1.63	.83
1980	1.40	1.81	.77
1981	1.52	1.96	.78
1982	1.56	2.06	.76
1983	1.60	2.12	.75

Table C.3 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 10, Trucks, Buses, and Truck Trailers

Year	Alternative	Official	Alternative/Official
1947	1.20	.44	2.70
1948	1.27	.51	2.49
1949	1.15	.55	2.09
1950	1.13	.56	2.01
1951	1.16	.69	1.70
1952	1.25	.72	1.75
1953	1.25	.65	1.94
1954	1.20	.70	1.73
1955	1.23	.68	1.81
1956	1.21	.85	1.43
1957	1.27	.84	1.51
1958	1.09	.89	1.22
1959	1.10	.84	1.31
1960	1.06	.83	1.28
1961	1.05	.85	1.23
1962	1.03	.83	1.24
1963	1.03	.84	1.23
1964	.99	.84	1.17
1965	.98	.83	1.18
1966	.90	.86	1.04
1967	.90	.88	1.02
1968	.89	.89	1.01
1969	.87	.91	.95
1970	.91	1.01	.91
1971	.96	1.00	.96
1972	1.00	1.00	1.00
1973	.98	1.00	.98
1974	1.05	1.14	.92
1975	1.24	1.30	.95
1976	1.30	1.35	.96
1977	1.30	1.40	.93
1978	1.42	1.55	.92
1979	1.38	1.73	.80
1980	1.54	2.03	.76
1981	1.70	2.04	.83
1982	1.81	2.06	.88
1983	1.89	2.04	.92

Table C.4 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 19, Ships and Boats

Year	Alternative	Official	Alternative/Official
1947	.82	.47	1.75
1948	.82	.50	1.63
1949	.83	.53	1.58
1950	.80	.54	1.50
1951	.87	.61	1.42
1952	.89	.60	1.47
1953	.88	.62	1.43
1954	.89	.63	1.41
1955	.88	.65	1.36
1956	.91	.70	1.30
1957	.94	.74	1.27
1958	.91	.75	1.21
1959	.88	.76	1.16
1960	.88	.76	1.16
1961	.86	.75	1.15
1962	.86	.75	1.14
1963	.84	.76	1.11
1964	.83	.77	1.08
1965	.83	.77	1.07
1966	.82	.80	1.03
1967	.84	.82	1.03
1968	.84	.85	.99
1969	.89	.88	1.00
1970	.91	.94	.98
1971	.96	.98	.98
1972	1.00	1.00	1.00
1973	1.02	1.02	1.00
1974	1.11	1.19	.93
1975	1.32	1.41	.94
1976	1.38	1.50	.92
1977	1.42	1.57	.90
1978	1.49	1.69	.88
1979	1.59	1.86	.86
1980	1.75	2.09	.84
1981	1.97	2.30	.86
1982	2.12	2.42	.87
1983	2.14	2.46	.87

Table C.5 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 26, Other Equipment

Year	Alternative	Official	Alternative/Official
1947	.99	.58	1.71
1948	.98	.60	1.64
1949	.99	.61	1.61
1950	.87	.62	1.39
1951	.91	.67	1.35
1952	.95	.70	1.35
1953	.97	.69	1.41
1954	.92	.70	1.33
1955	.85	.70	1.21
1956	.84	.77	1.09
1957	.85	.80	1.06
1958	.85	.82	1.03
1959	.82	.81	1.02
1960	.83	.81	1.02
1961	.83	.85	.98
1962	.80	.83	.97
1963	.80	.83	.97
1964	.78	.83	.94
1965	.79	.84	.94
1966	.78	.85	.92
1967	.82	.86	.95
1968	.84	.88	.95
1969	.87	.92	.94
1970	.91	.98	.93
1971	1.00	1.00	1.00
1972	1.00	1.00	1.00
1973	1.00	1.01	.99
1974	1.00	1.14	.88
1975	1.27	1.24	1.02
1976	1.29	1.30	.99
1977	1.29	1.36	.95
1978	1.31	1.45	.90
1979	1.43	1.60	.89
1980	1.46	1.79	.82
1981	1.53	1.90	.80
1982	1.73	2.00	.86
1983	1.75	2.09	.84

Table C.6 Comparison of Alternative Price Indexes for PDE with Official Indexes from NIPA, Table 5.6, Row 26, Mining and Oilfield Machinery

Year	Alternative	Official	Alternative/Official
1947	.69	.42	1.65
1948	.71	.45	1.58
1949	.71	.47	1.51
1950	.69	.49	1.42
1951	.74	.54	1.36
1952	.73	.54	1.34
1953	.76	.54	1.41
1954	.77	.54	1.43
1955	.76	.55	1.39
1956	.77	.59	1.30
1957	.81	.63	1.28
1958	.82	.66	1.24
1959	.84	.69	1.21
1960	.85	.70	1.21
1961	.84	.69	1.21
1962	.83	.70	1.18
1963	.80	.70	1.14
1964	.79	.72	1.10
1965	.79	.74	1.08
1966	.81	.77	1.06
1967	.83	.79	1.06
1968	.87	.82	1.06
1969	.91	.85	1.07
1970	.97	.92	1.06
1971	.99	.97	1.03
1972	1.00	1.00	1.00
1973	1.02	1.04	.98
1974	1.06	1.18	.90
1975	1.29	1.33	.97
1976	1.36	1.43	.95
1977	1.39	1.62	.86
1978	1.52	1.76	.86
1979	1.70	1.91	.89
1980	1.82	2.14	.85
1981	1.96	2.28	.86
1982	2.14	2.47	.87
1983	2.31	2.52	.92

Notes to Table C.1

The photocopy and instruments indexes are proxied using App. B tables in the following steps.

1. A photocopy index is proxied by aggregating all the products (excluding electronic computing machinery) in the office, computing, and accounting machinery industry.

2. An instruments index is proxied by generating a group of subindexes for each of the PPI product categories used in the NIPA to deflate instruments. Each subindex combines alternative indexes and PPIs from App. B tables with equal weights. The subindexes and their product components are as follows: *Instruments*: (1) quarter-inch hand power driven drills; (2) half-inch hand power driven drills; (3) hand electric sanders; (4) transformer arc welders; *Cutting tools and accessories, precision measurement tools*: (1) free-standing power saws; (2) acetylene cutting tools; (3) power saw blades; (4) micrometer calipers; (5) drill bits; *Pumps and compressors*: (1) stationary air compressors; (2) centrifugal pumps; (3) compressors and compressor units, ammonia refrigerant; (4) compressors, all refrigerants except ammonia, open type, over 10 hp; (5) condensing units, air cooled, hermetic type; (6) condensing units, water cooled, open type; (7) condensing units, water cooled, hermetic type; *Electrical direct measurement instruments*: (1) tachometers; (2) electronic auto testers; (3) panel type ammeters; *Metal commercial furniture*: used the entire industry of furniture and fixtures from App. B. *Small electrical appliances*: (1) automatic coffee makers; (2) vacuum cleaners; (3) microwave ovens.

3. The instrument index is weighted with the photocopy index using Törnqvist NIPA nominal investment share.

Notes to Table C.2

The special industry machinery index is proxied by taking the industry group for metalworking machinery and service industry machinery from App. B and aggregating the two together with equal weights.

Notes to Table C.3

The trucks, buses, and truck trailers index is generated from an unweighted average of the following indexes from App. B: (1) autos; (2) diesel engines, except automotive.

Notes to Table C.4

The ships and boats index is generated by first creating six subgroups of indexes, which are then aggregated with 1967 NIPA weights. The group indexes and the product indexes that compose them are as follows: *Fabricated metal products* (App. B); *Pumps, compressors, and general purpose machinery and equipment*: (1) stationary air compressors; (2) centrifugal pumps; (3) compressors and compressor units, ammonia refrigerant; (4) compressors, all refrigerants except ammonia, open type, over 10 hp; (5) condensing units, air cooled, hermetic type; (6) condensing units, water cooled, open type; (7) condensing units, water cooled, hermetic type; (8) fire extinguishers; *Steam and hot water equipment*: (1) gas hot water heaters; (2) water storage tank; (3) brass gate valves; (4) PVC piping; (5) radiator and convectors; (6) electric hot water heaters; *Electrical machinery and equipment, selected items*:

(1) panel-type ammeters; (2) fractional horsepower electric motors; (3) voltage regulators; (4) fusible-type panel boards; (5) circuit breaker-type panelboards; (6) indoor safety switches; (7) circuit breakers; (8) outdoor power switches; *Engines and turbines*: (1) gasoline engines; (2) outboard motors; *Diesel engines, except automotive*.

Notes to Table C.5

The other equipment index is created by aggregating, using NIPA 1967 weights, the following indexes: (1) fluorescent light fixtures; (2) furniture and fixtures (App. B); (3) autos; (4) batteries; (5) fire extinguishers; (6) garden tractors.

Notes to Table C.6

The mining and oilfield machinery index is proxied by the construction machinery index from App. B.

This Page Intentionally Left Blank