

Bear Market Book - January 30, 2021

A Market Observatory Project

Introduction to the Book

Time Series Graphs

Bear/Bull Market Tables

K-Charts

About Us

Introduction to the Book

Introduction to the Book

- Motivation: Although widely discussed within academic and among practitioners, bull and bear markets are not readily documented.
- Mission: Provide a reliable, and regularly updated database of bull/bear markets across major asset classes.

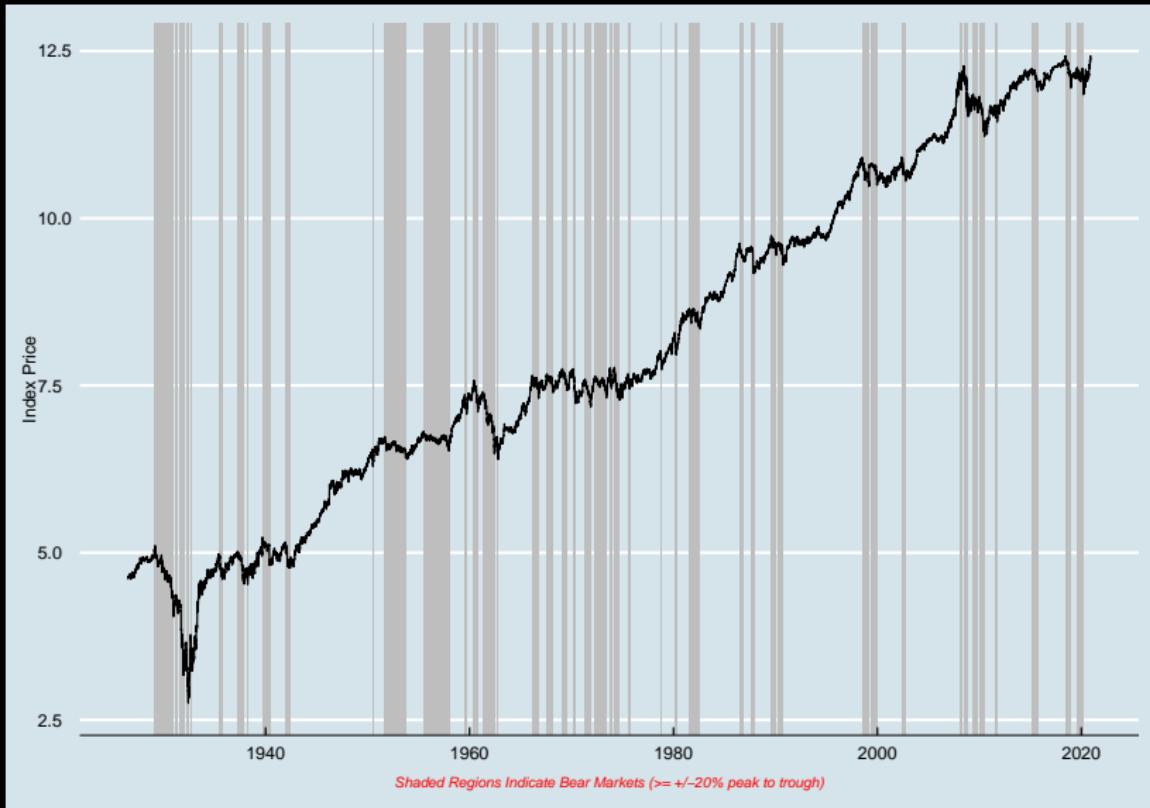
Time Series Graphs

Time Series Graphs

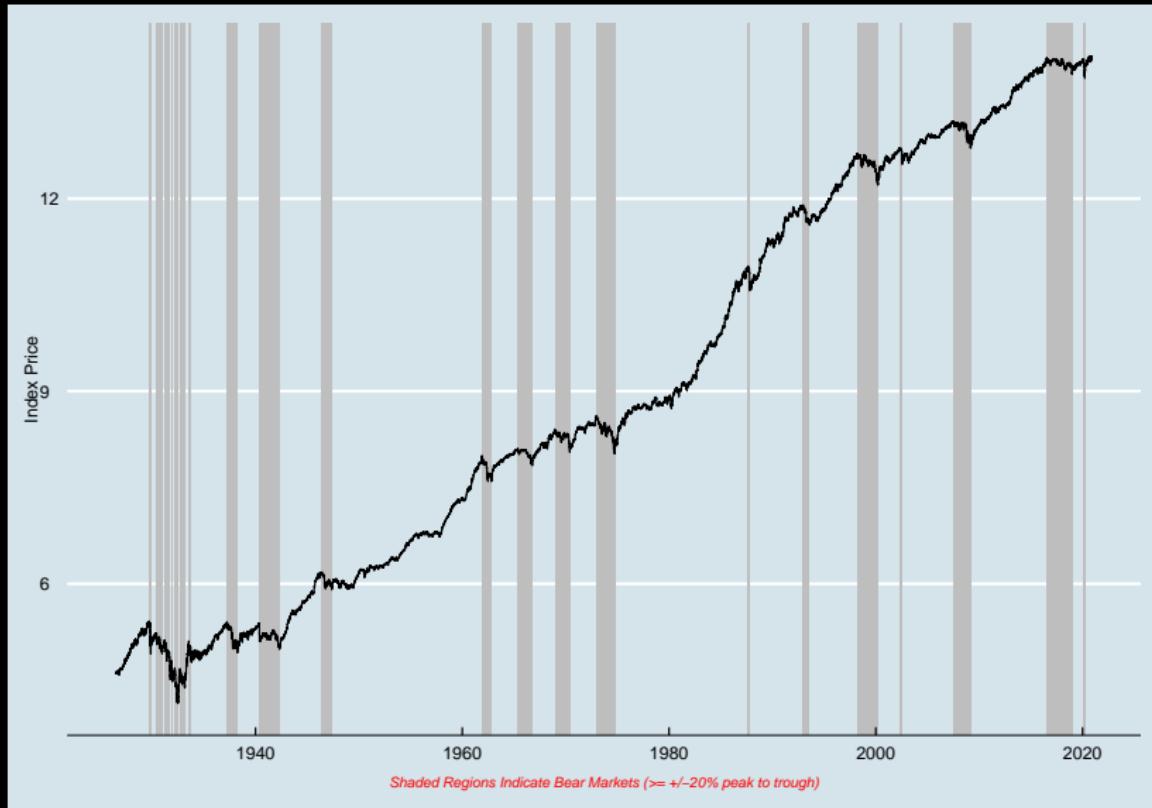
- Purpose: Provide a visualization of bull/bear regimes over time.
- Method: Use the rules based approach of Lunde & Timmerman^{^2} with +/-20% price change thresholds. Uses the bbddetection^{^1} package for implementation.
- Data: Daily prices of the 49 Industries from 1926 to 2021 compiled and maintained by Ken French.
- Authors:
 - Connor Folk (December 2021-Present)
 - Patrick Barley (December 2021-Present)

[1]: Zakamulin (2017). [2]: Lunde, A. and Timmermann, A. (2004).

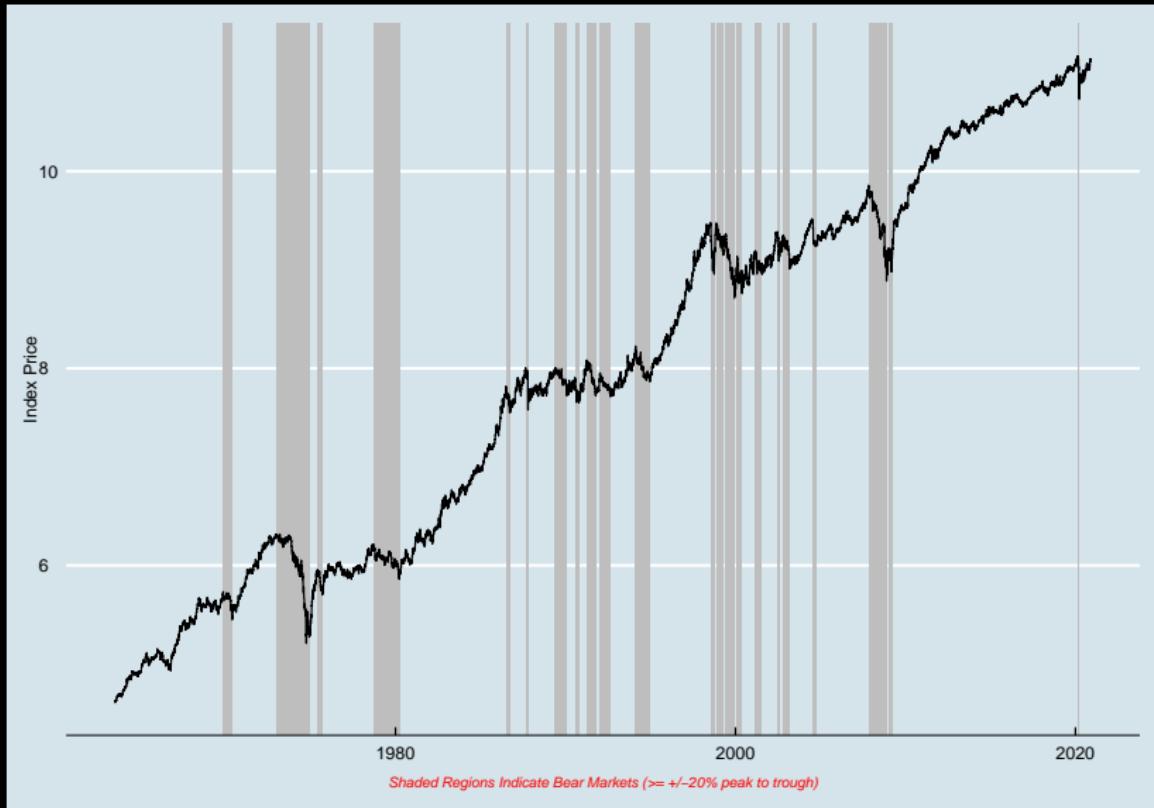
Agriculture



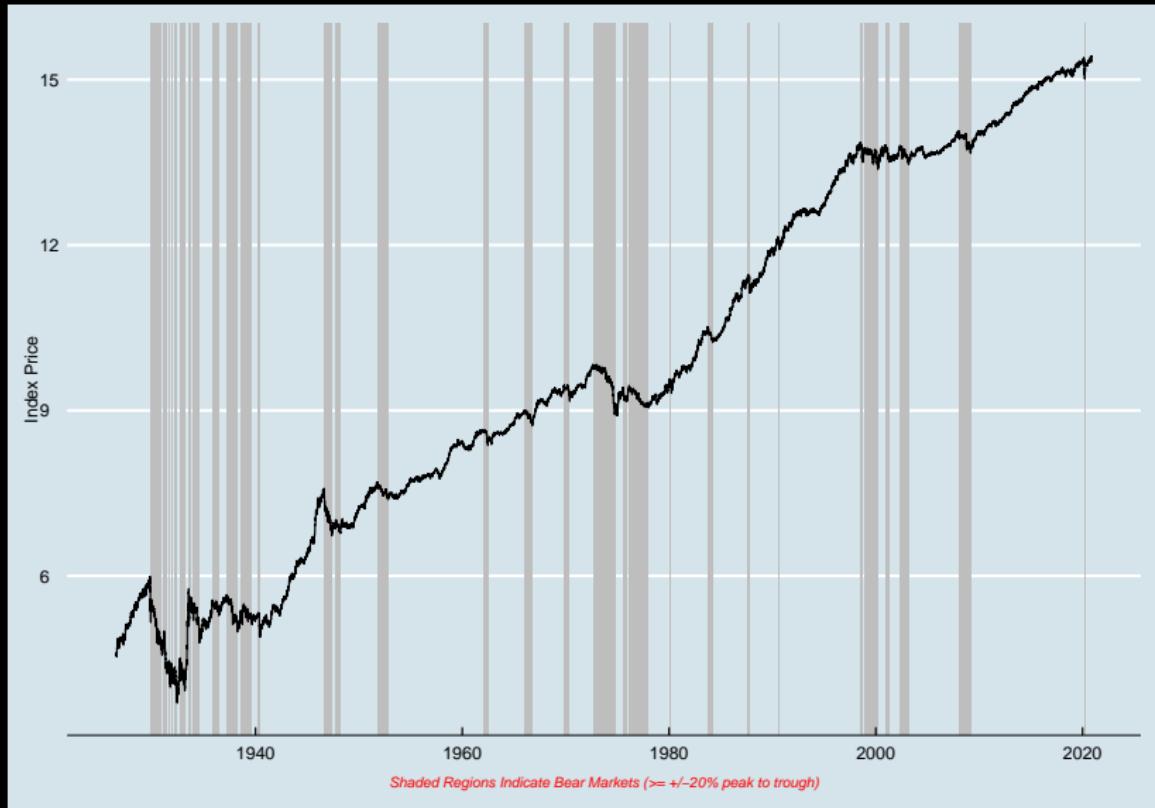
Food Products



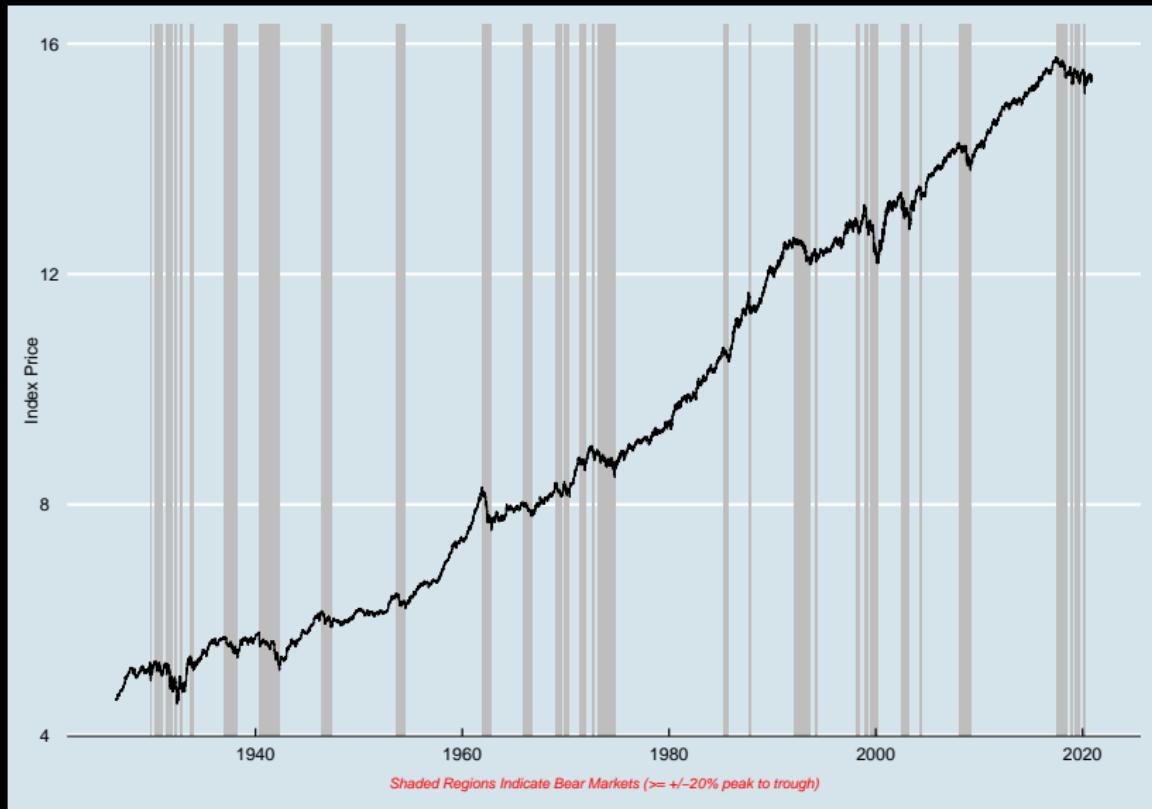
Candy and Soda



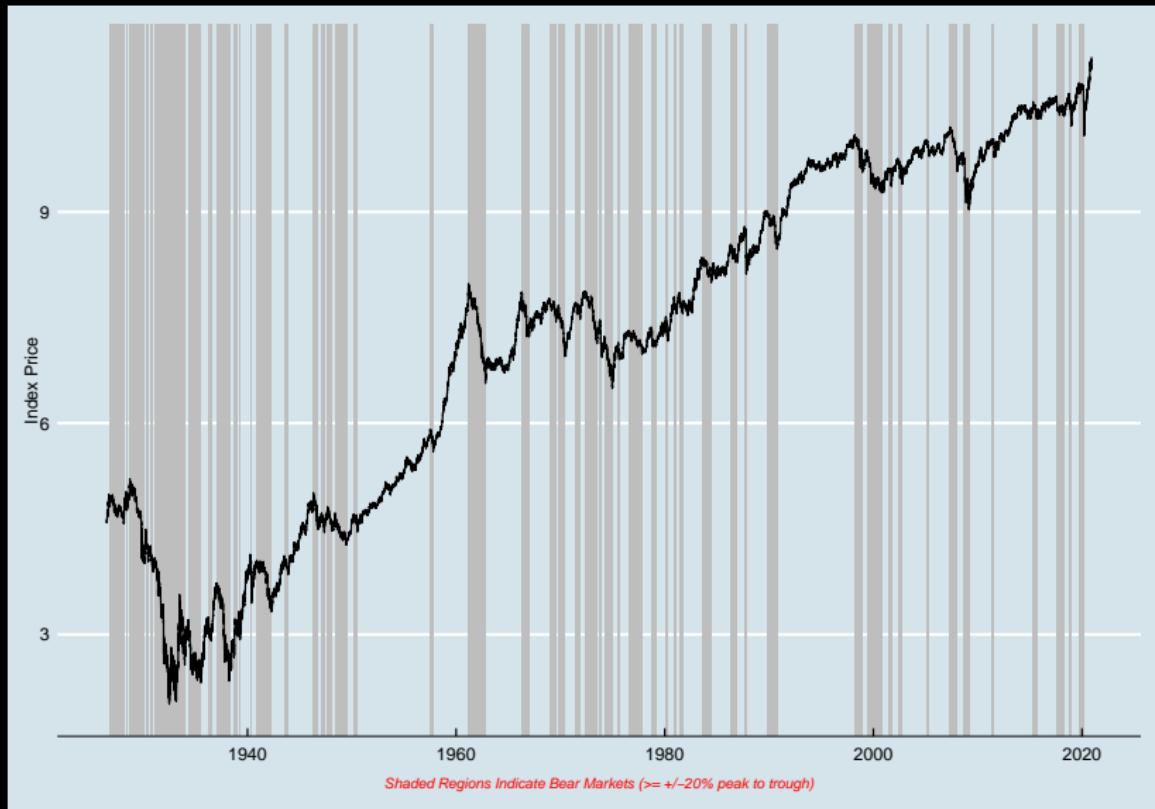
Beer and Liquor



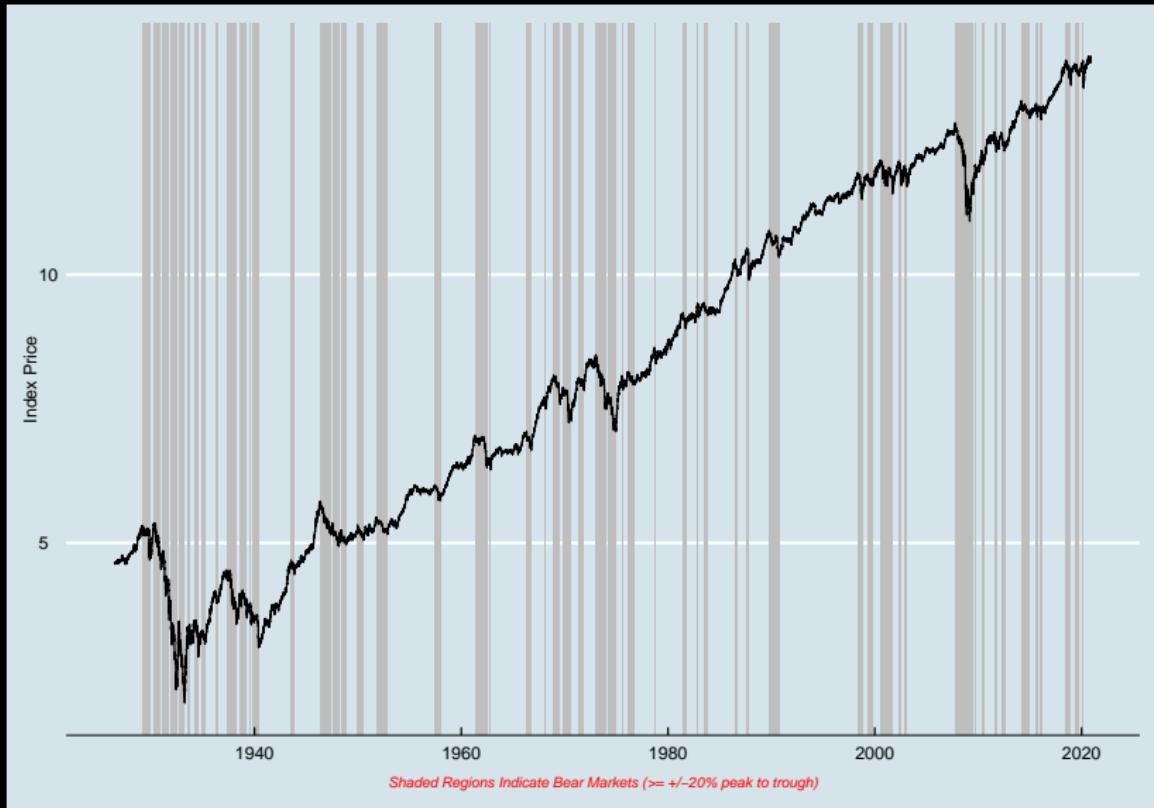
Tobacco Products



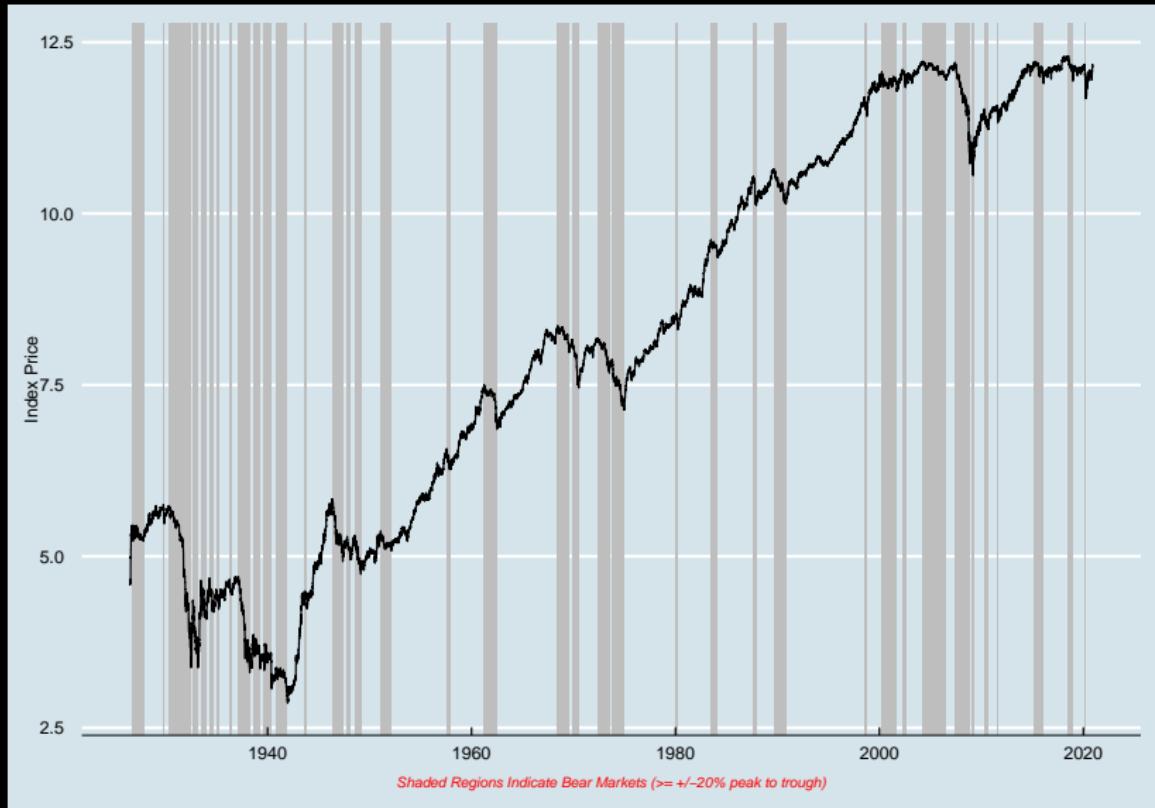
Recreation



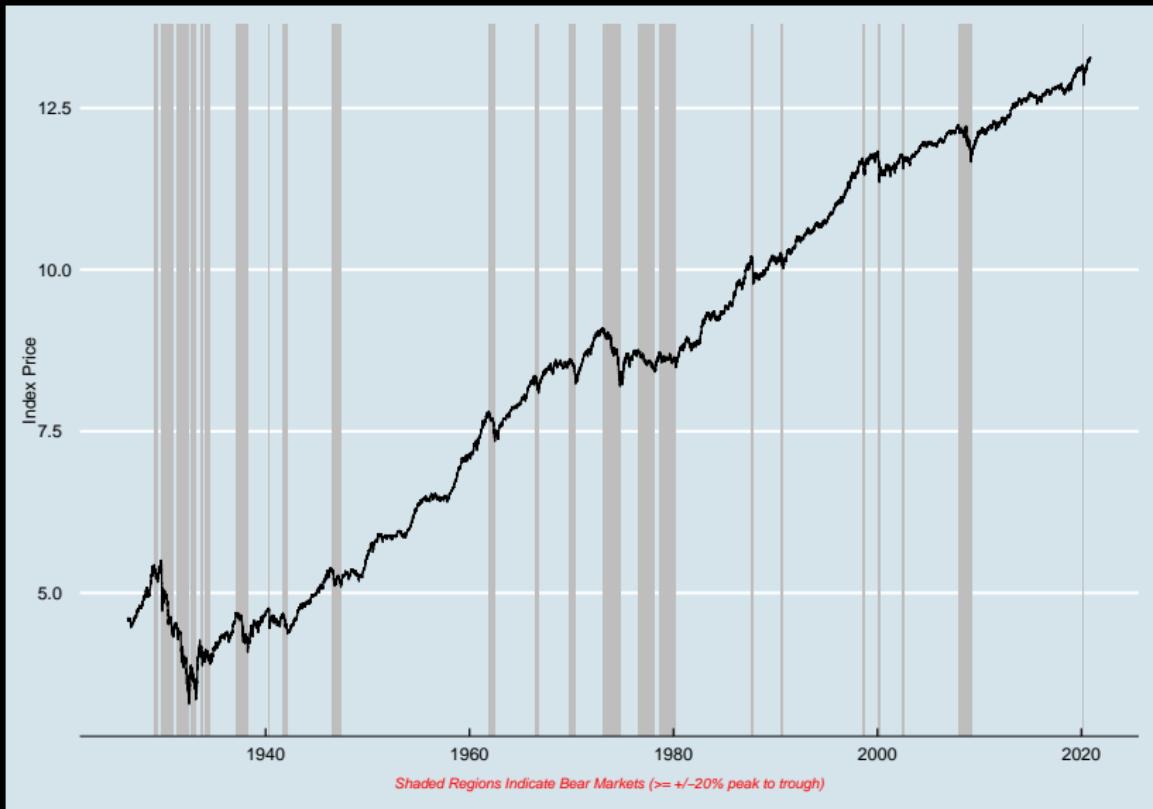
Entertainment



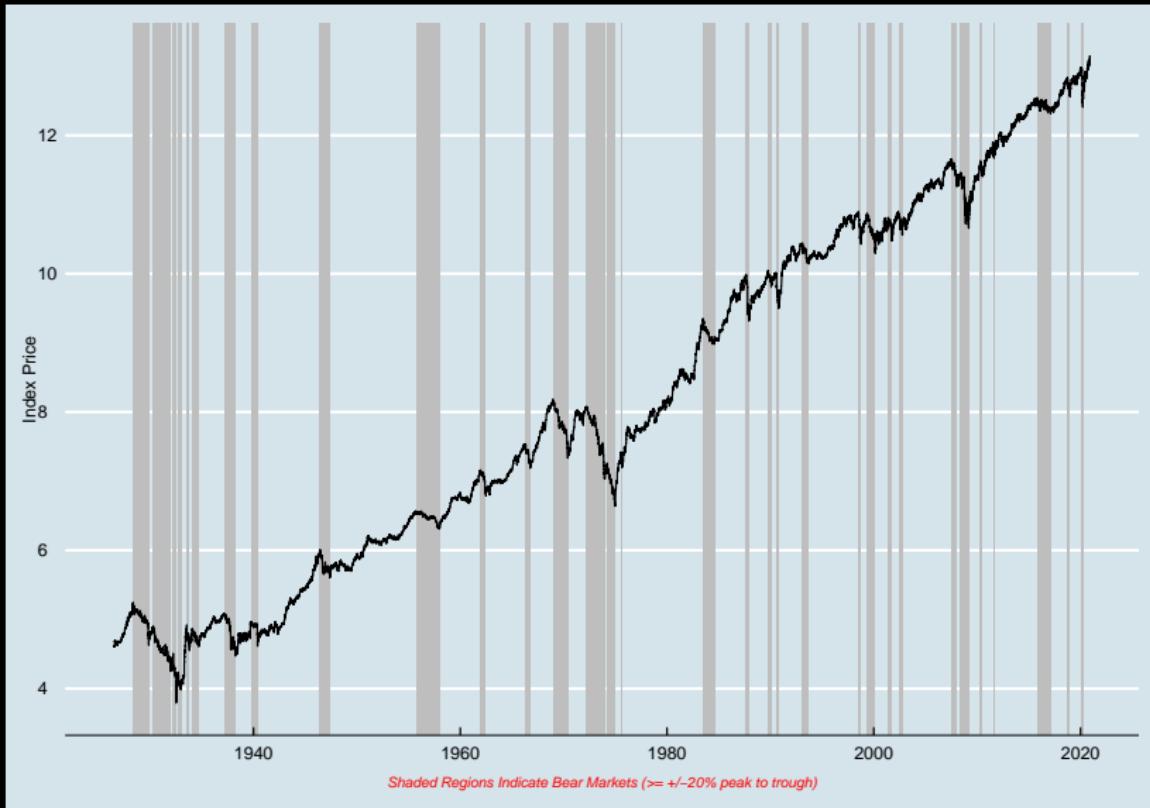
Printing and Publishing



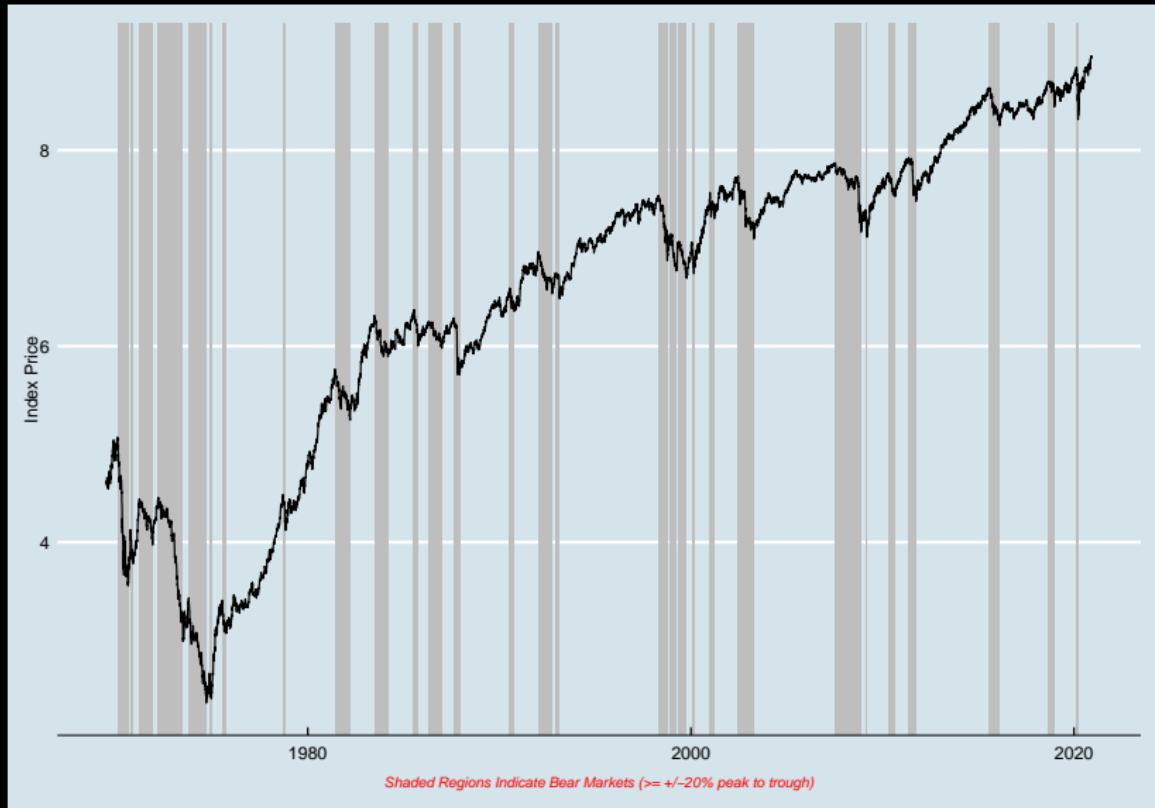
Consumer Goods



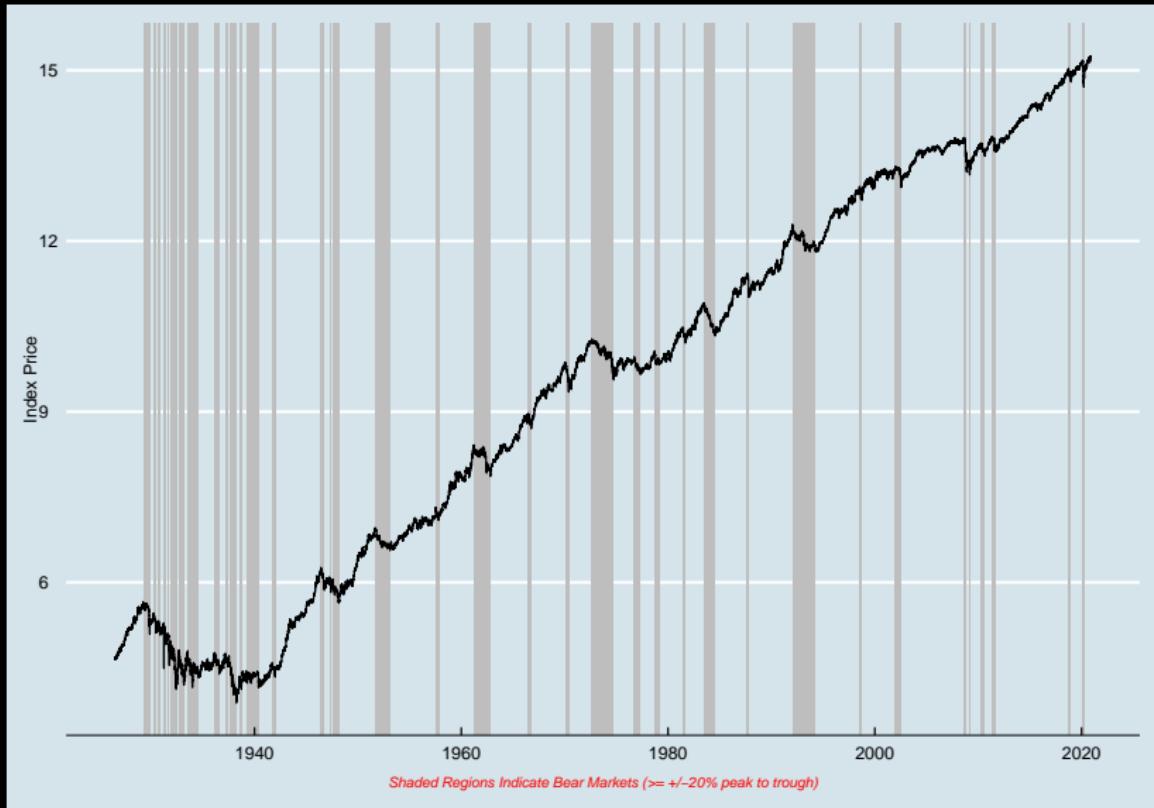
Apparel



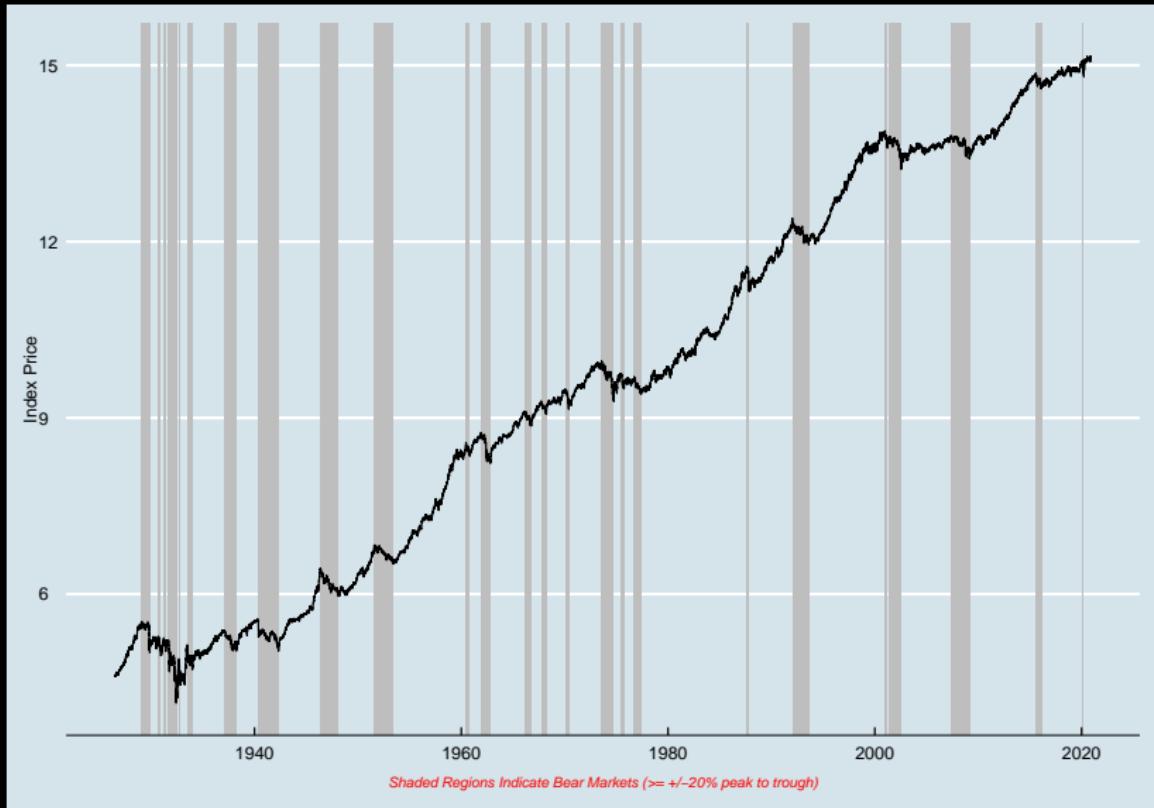
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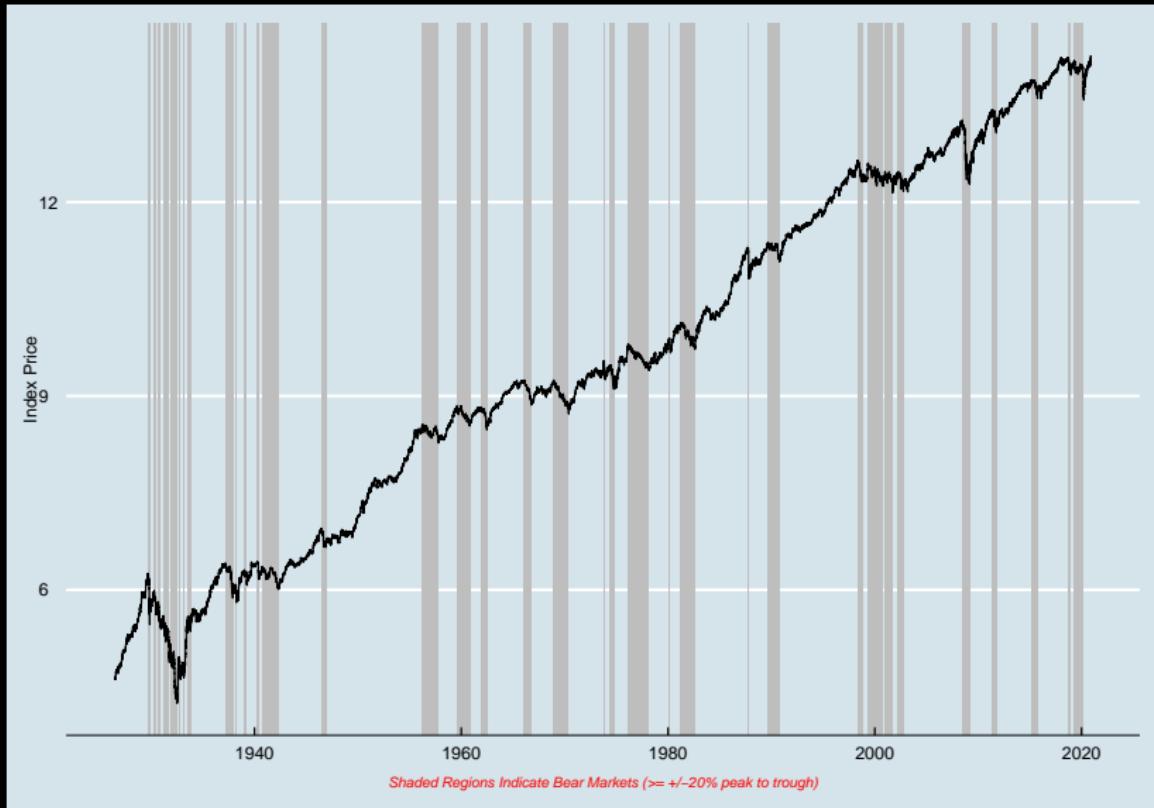
Medical Equipment



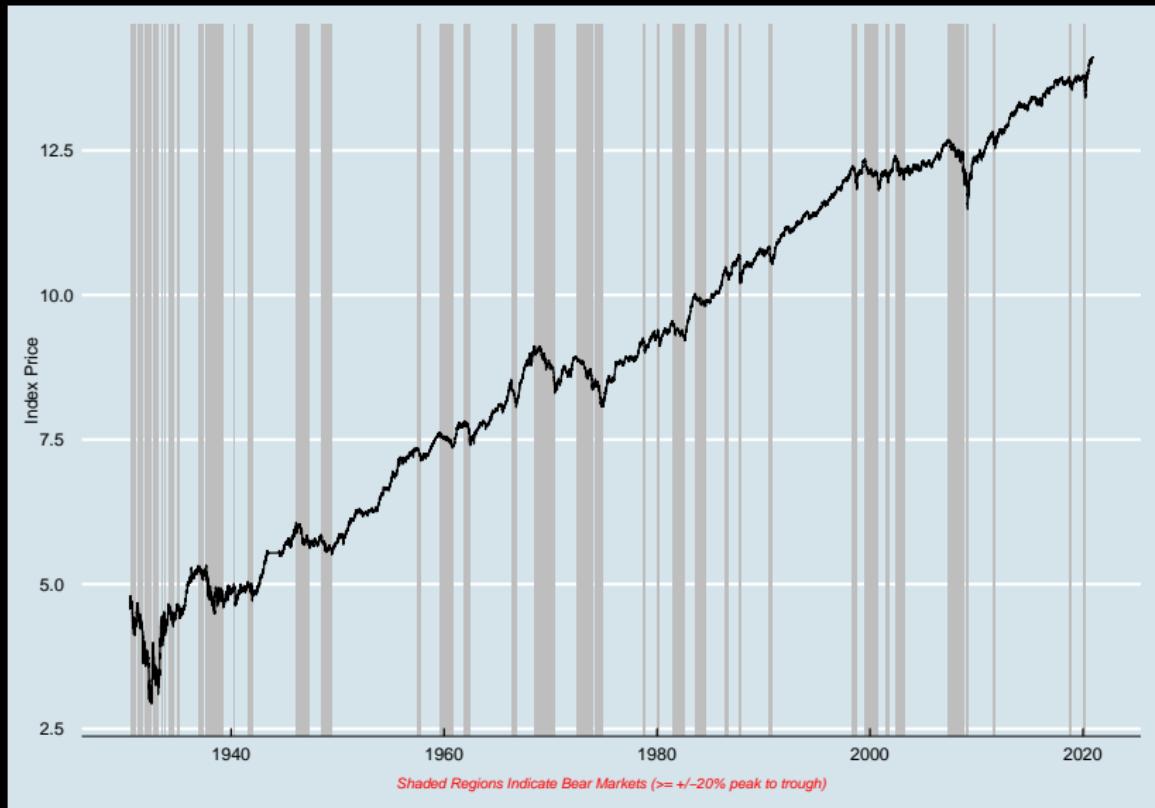
Pharmaceutical Products



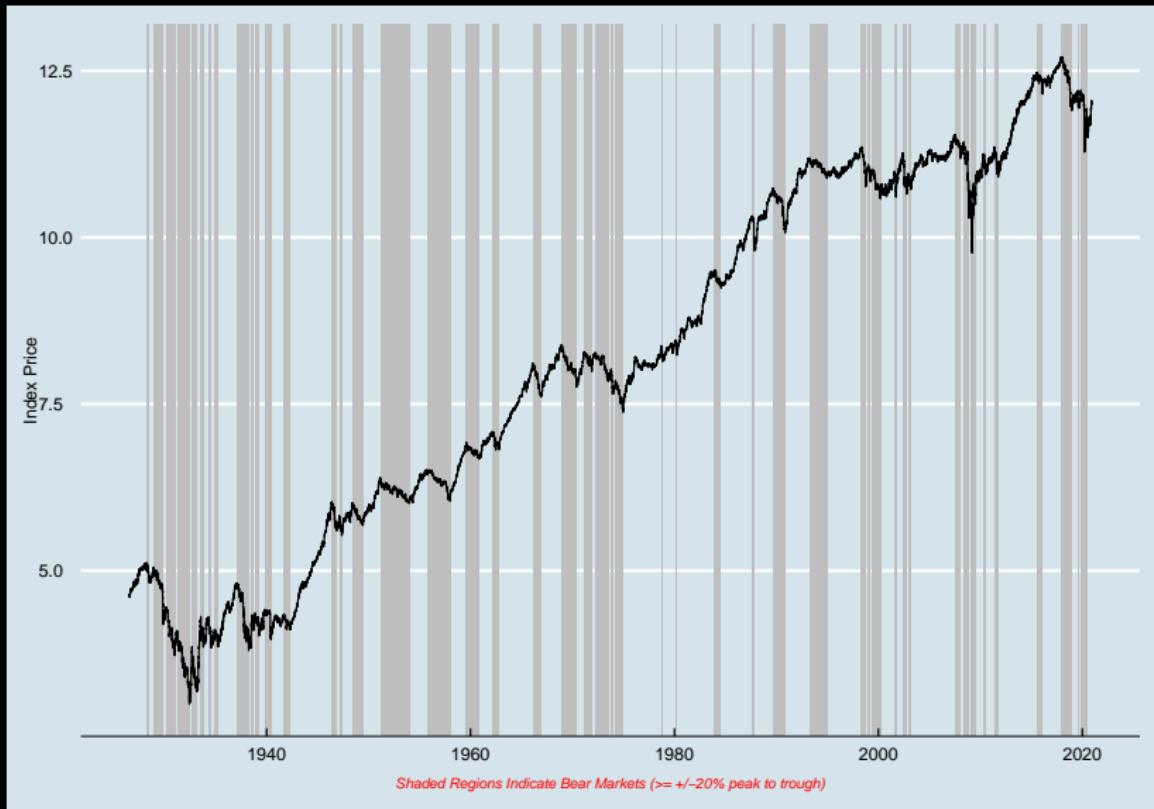
Chemicals



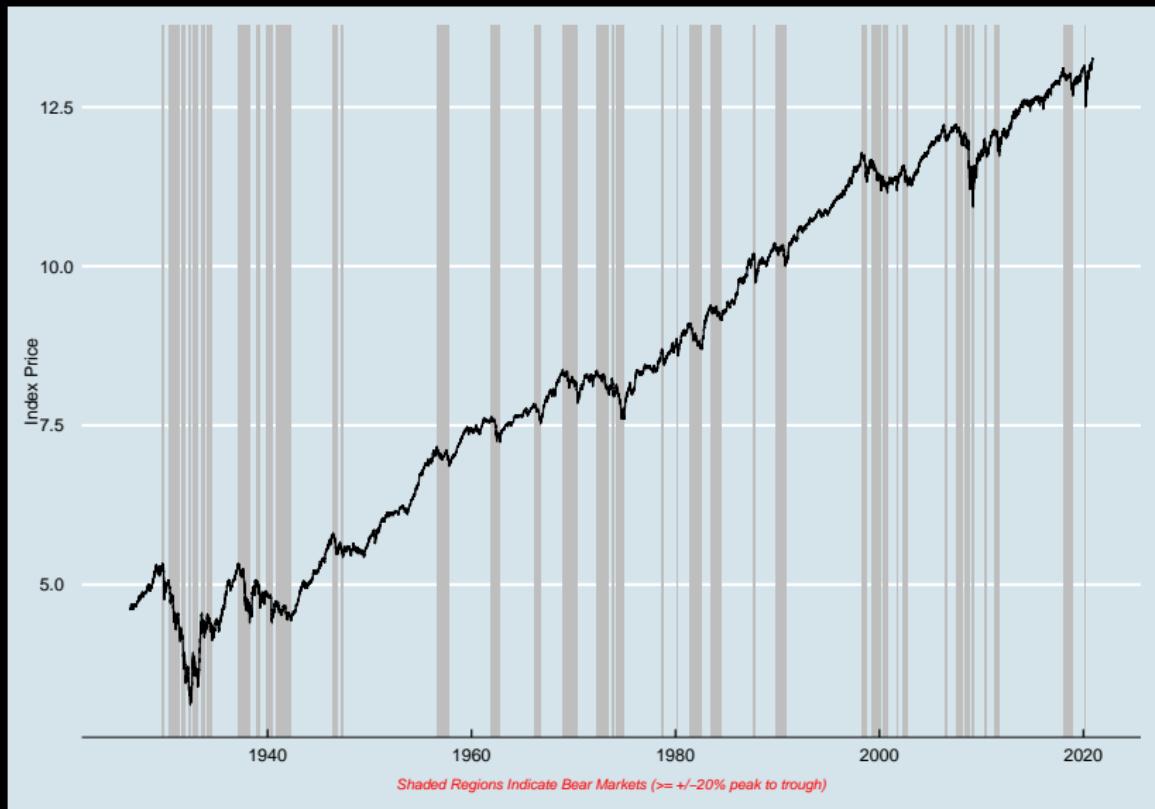
Rubber and Plastic Products



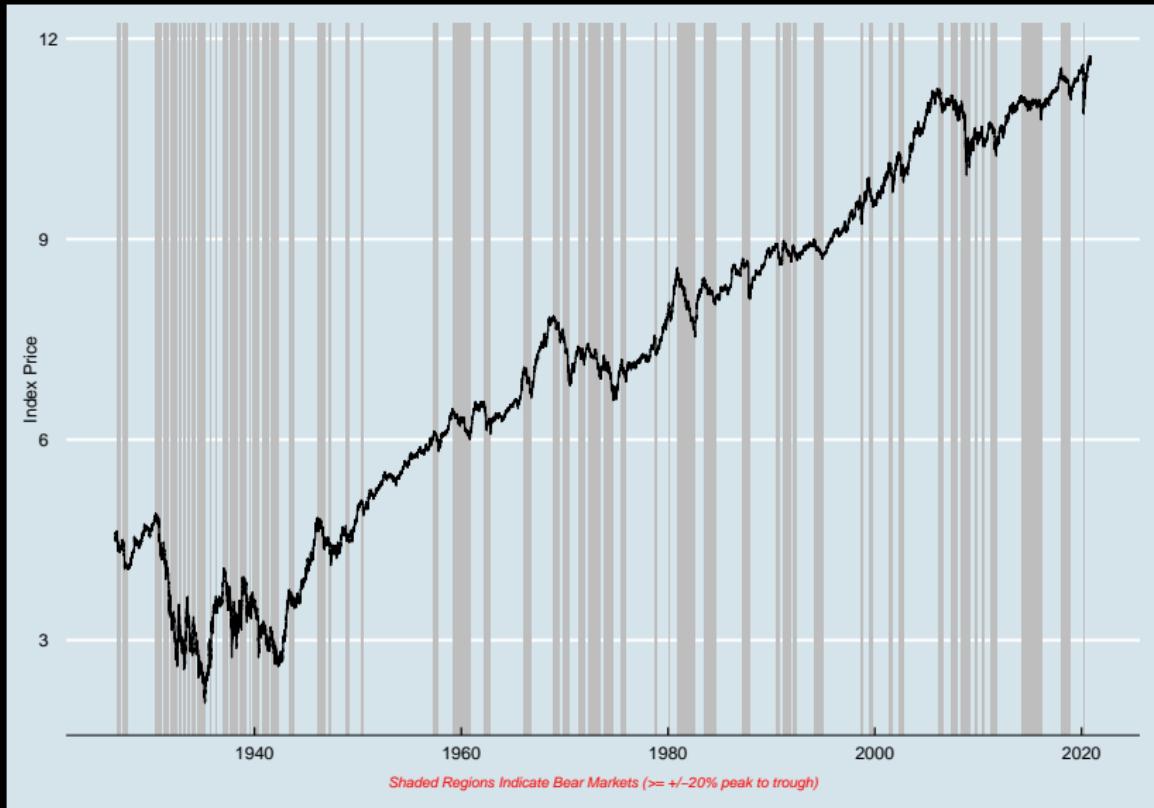
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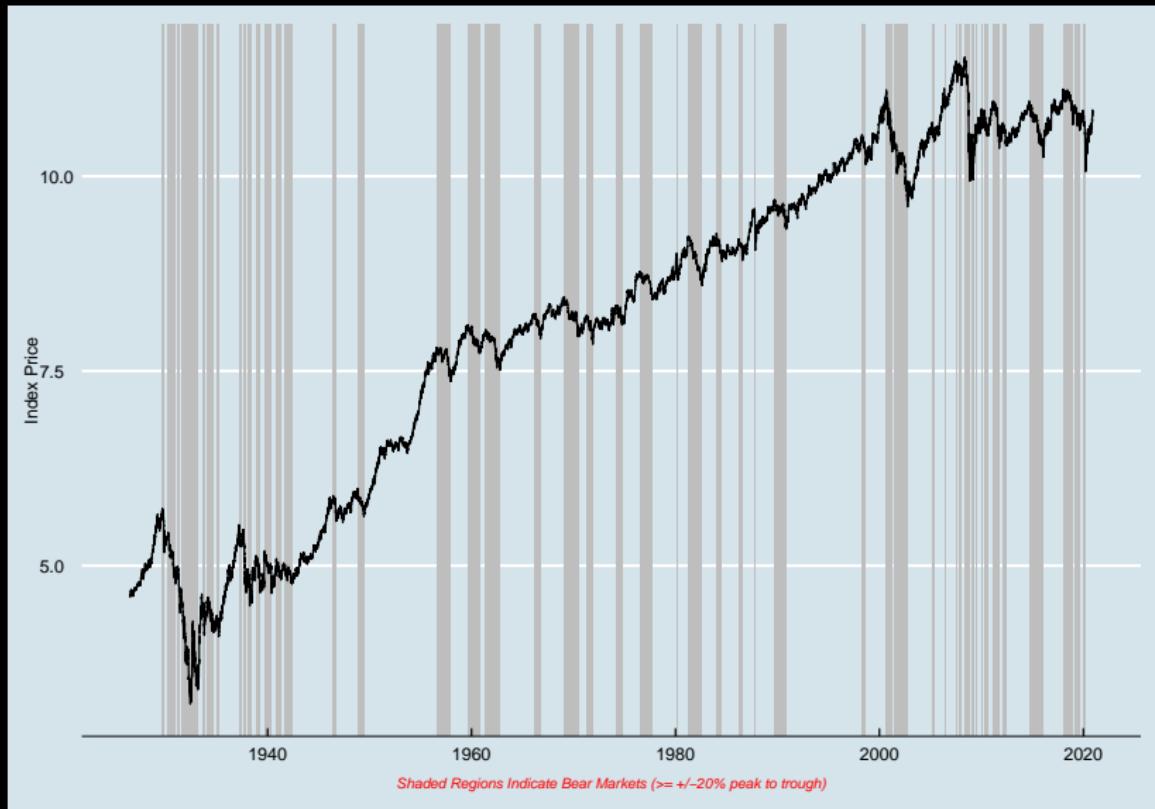
Construction Materials



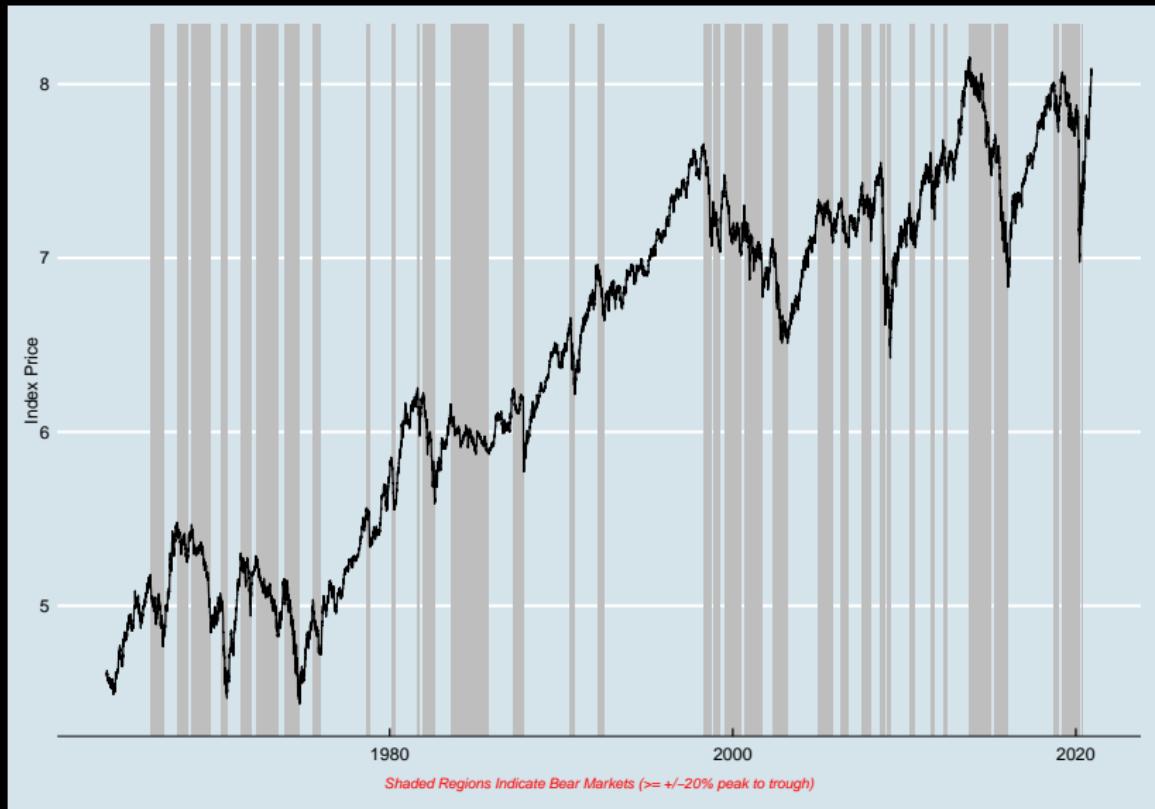
Construction



Steel Works Etc.



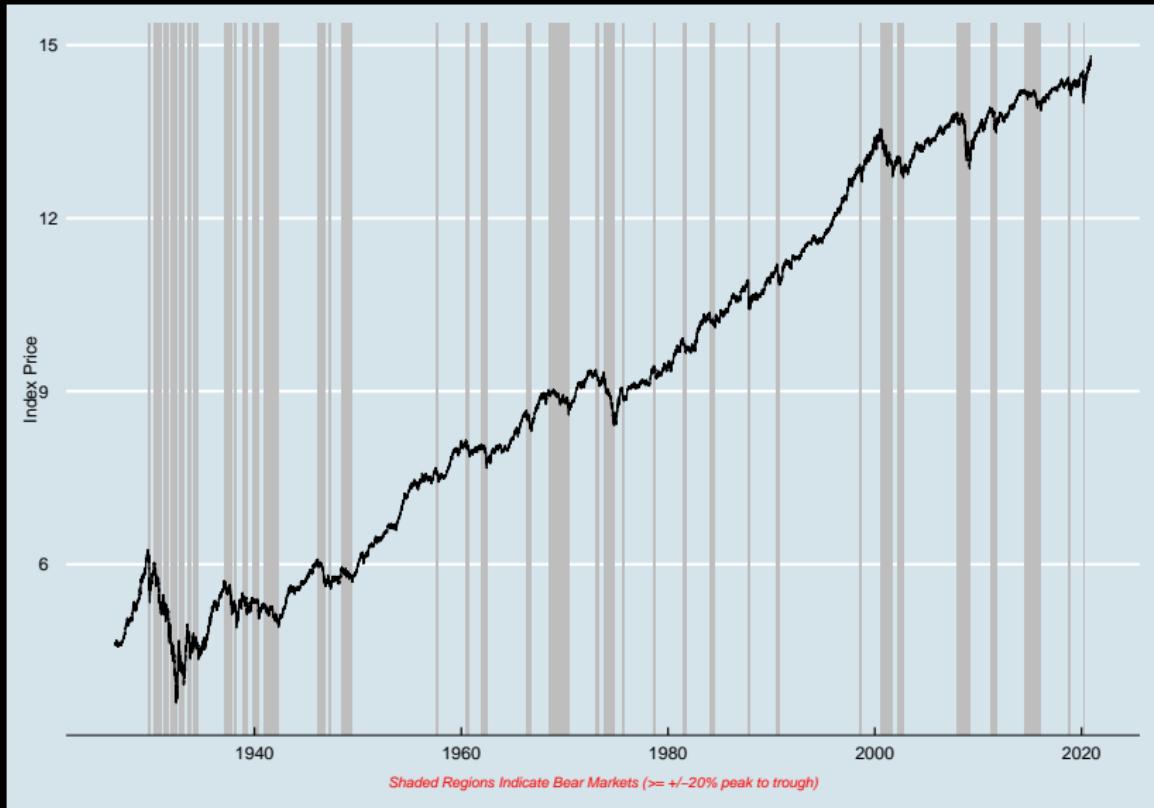
Fabricated Products



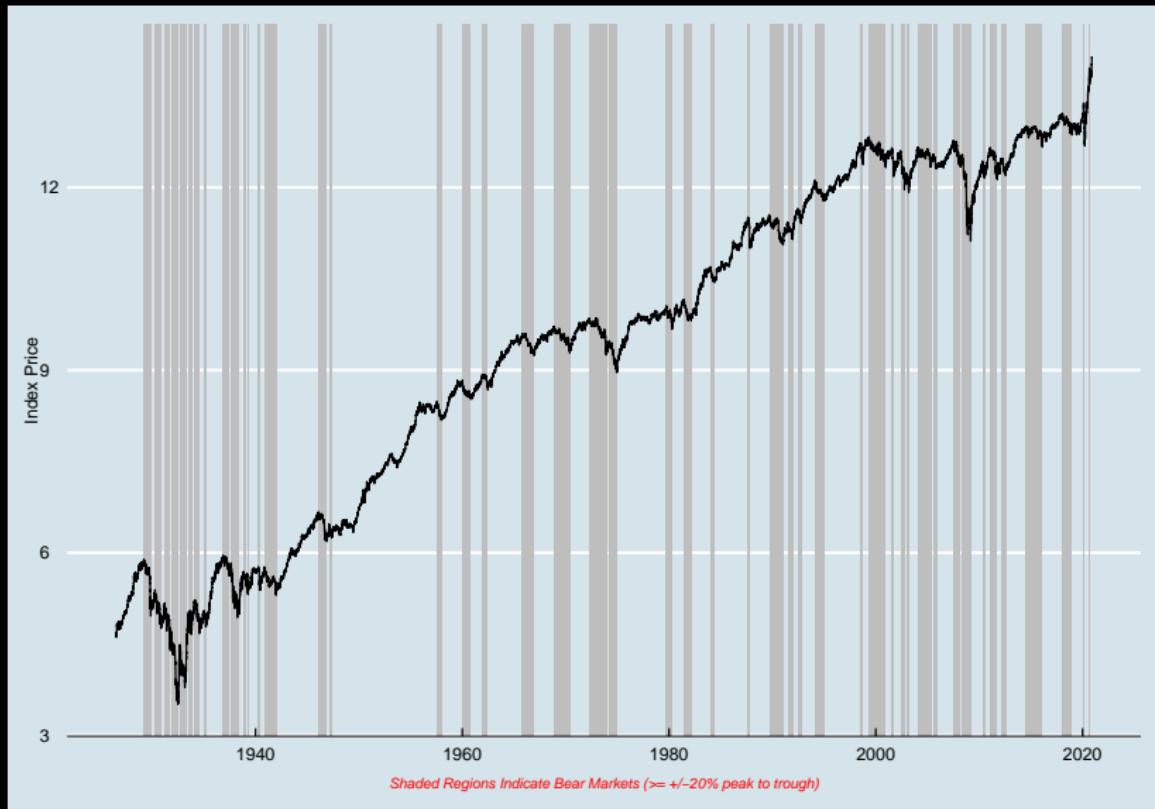
Machinery



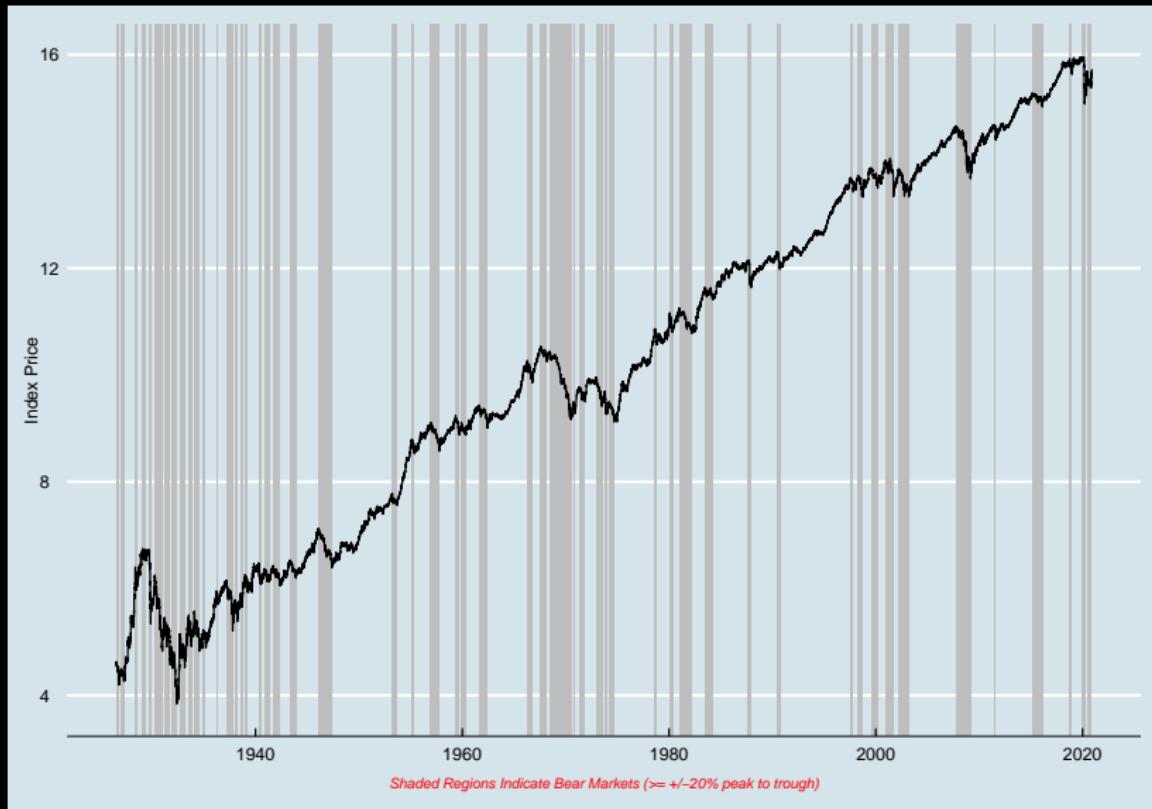
Electrical Equipment



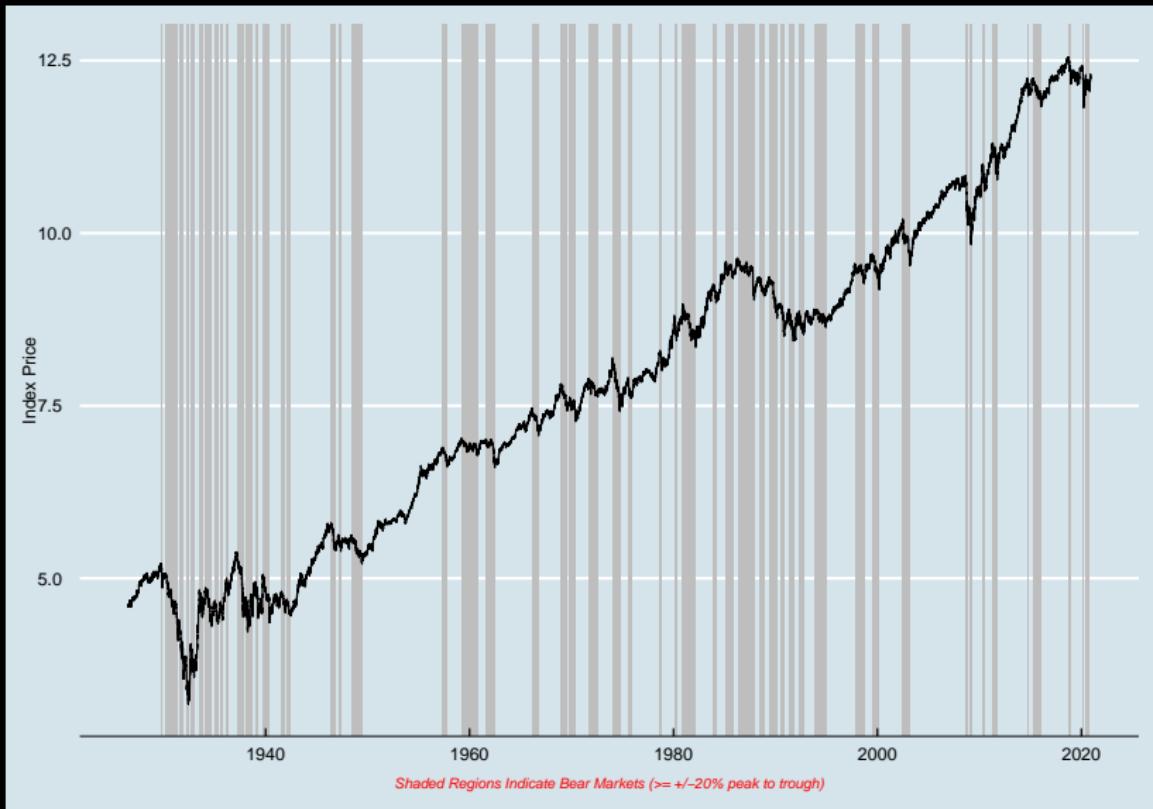
Automobiles



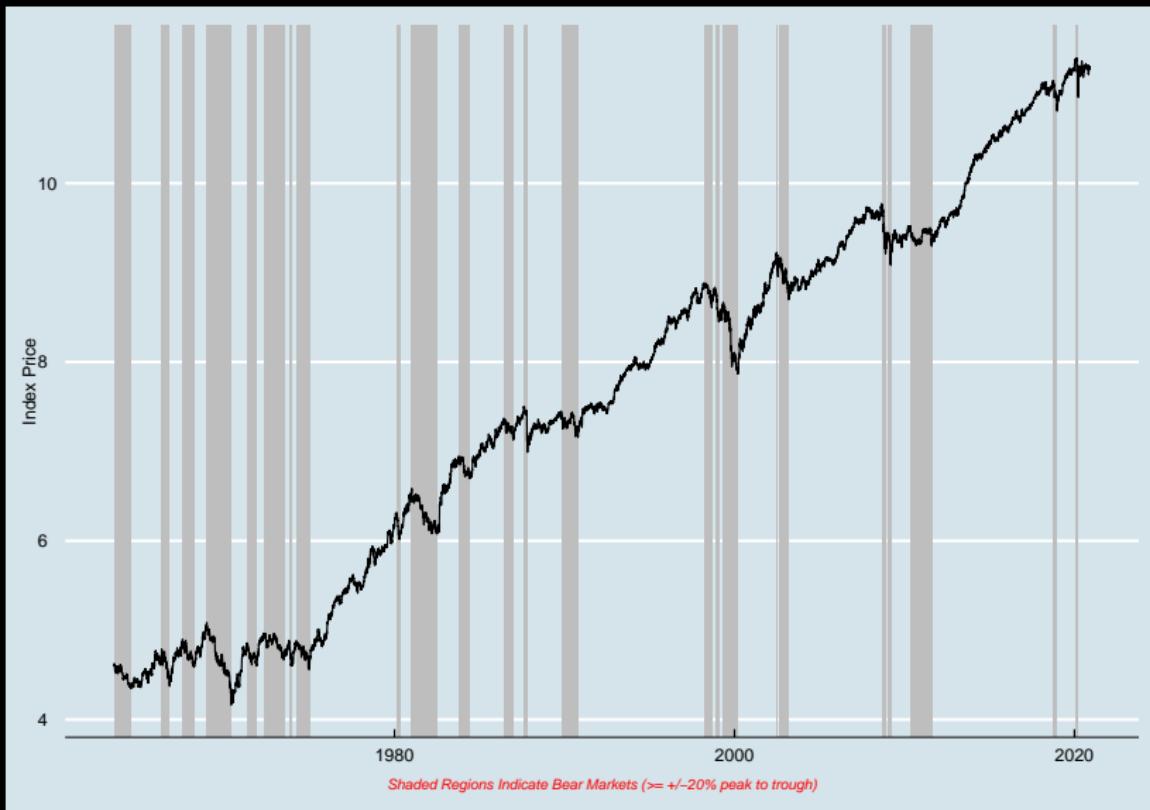
Aircraft



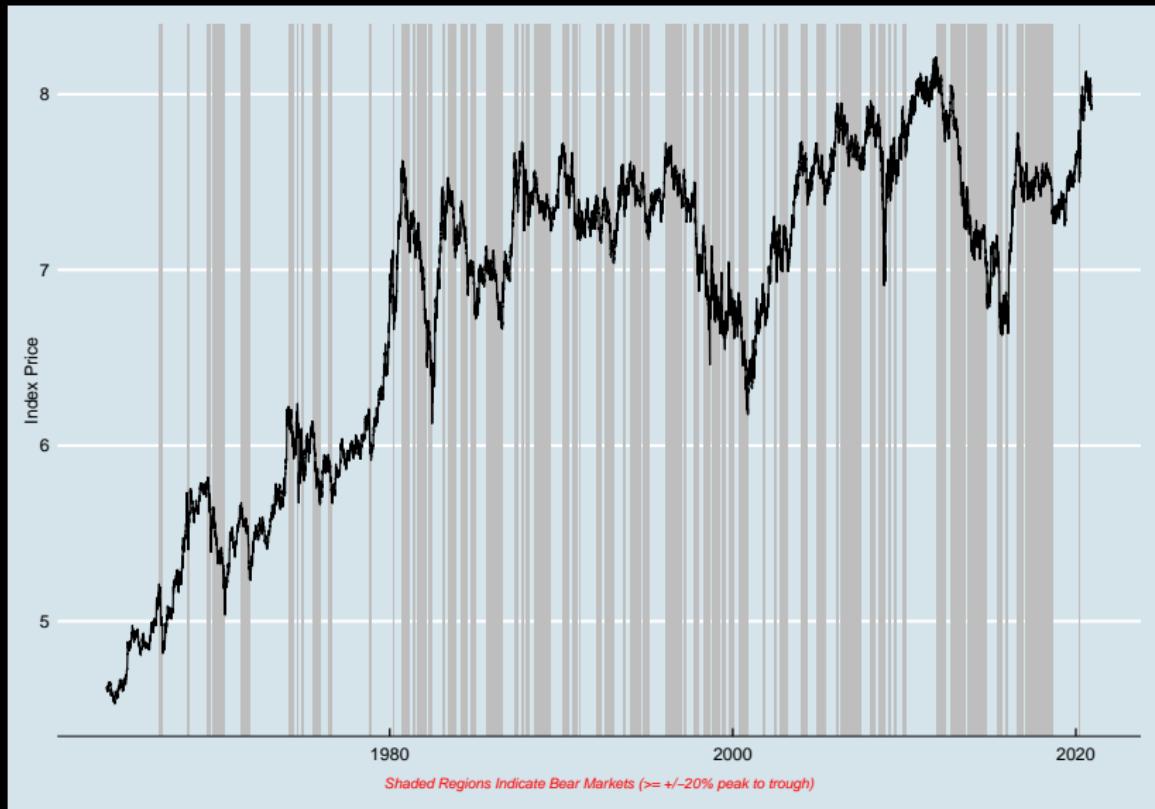
Shipbuilding, Railroad Equipment



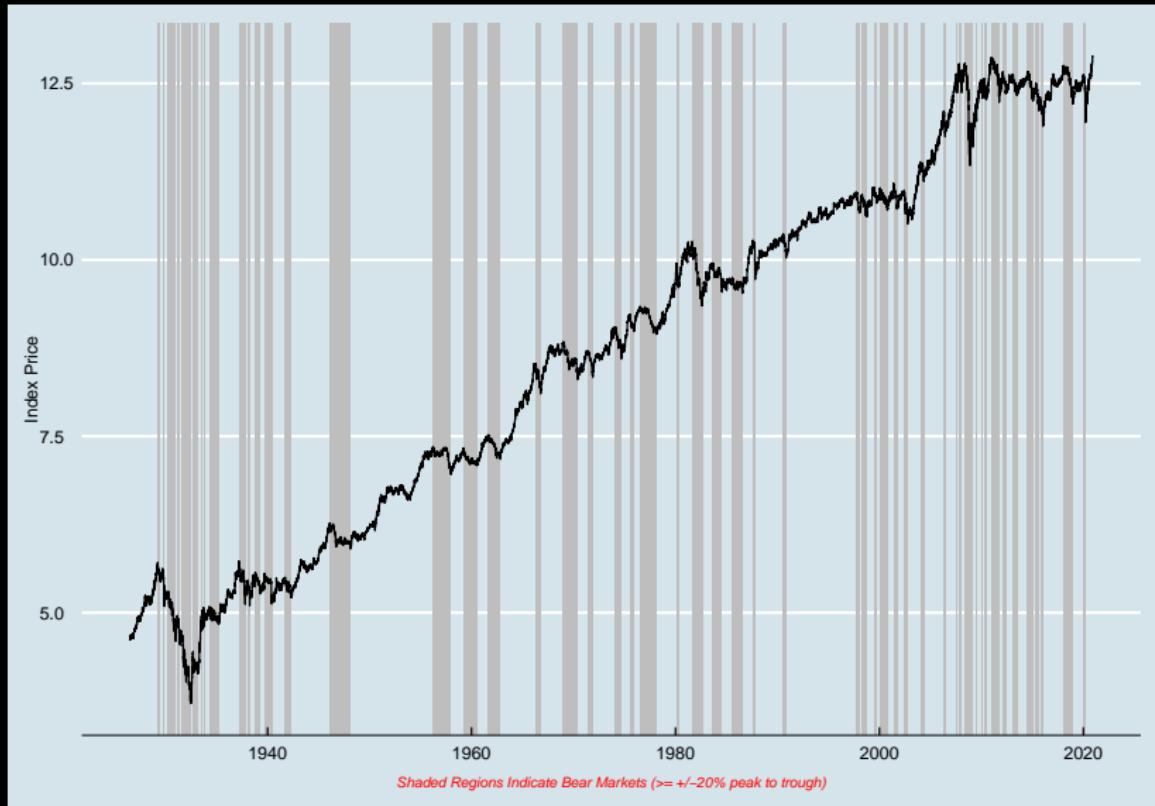
Military Vehicles, Components, and Ordnance



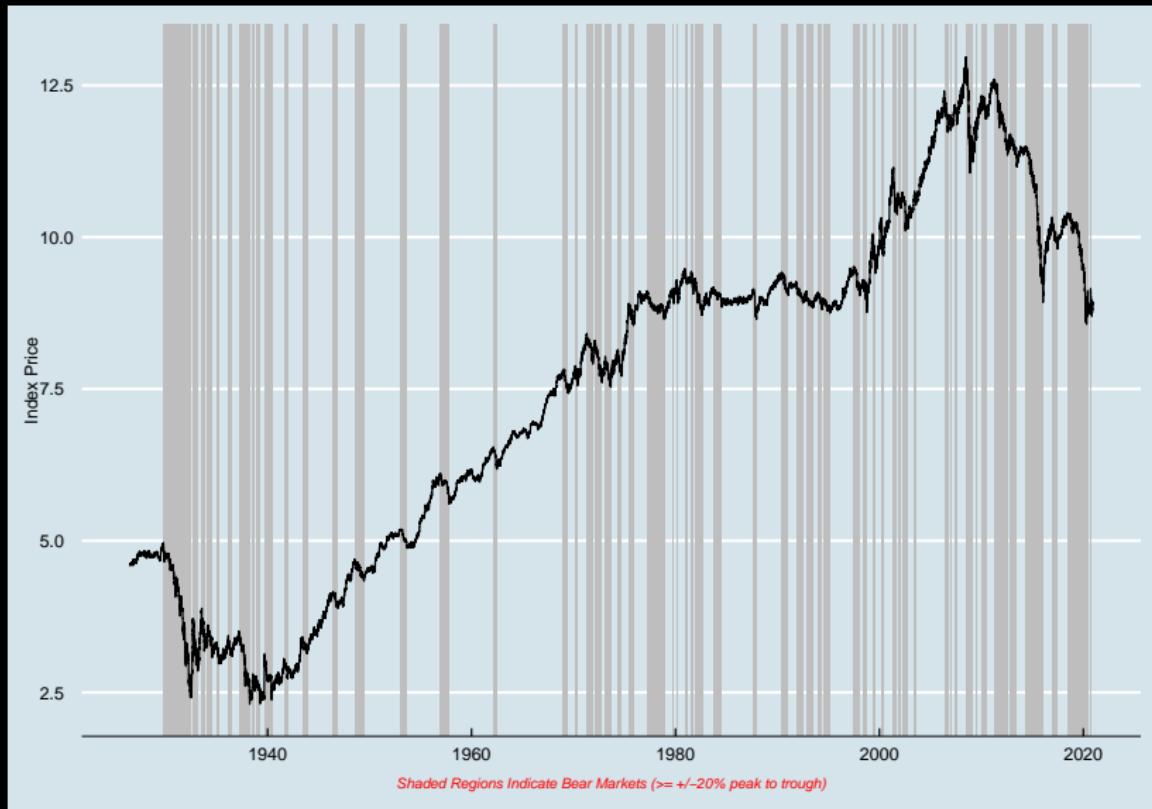
Precious Metals



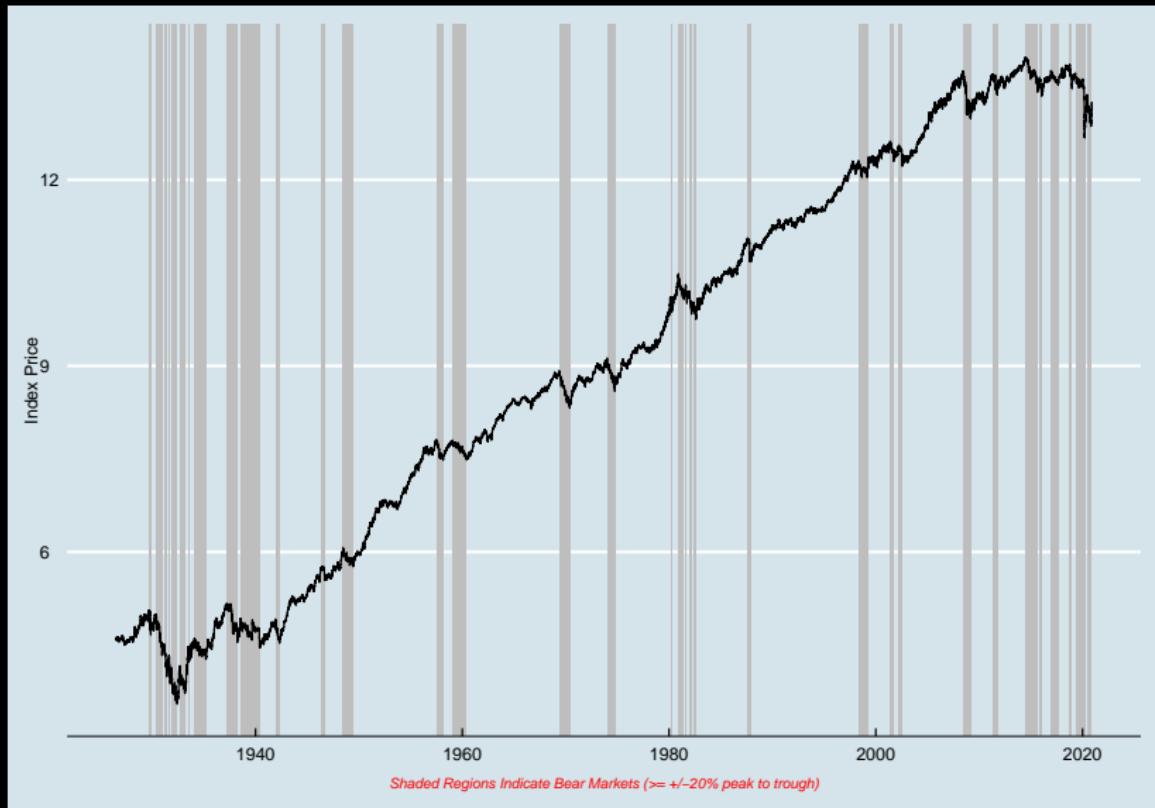
Non-Metallic and Industrial Metal Mining



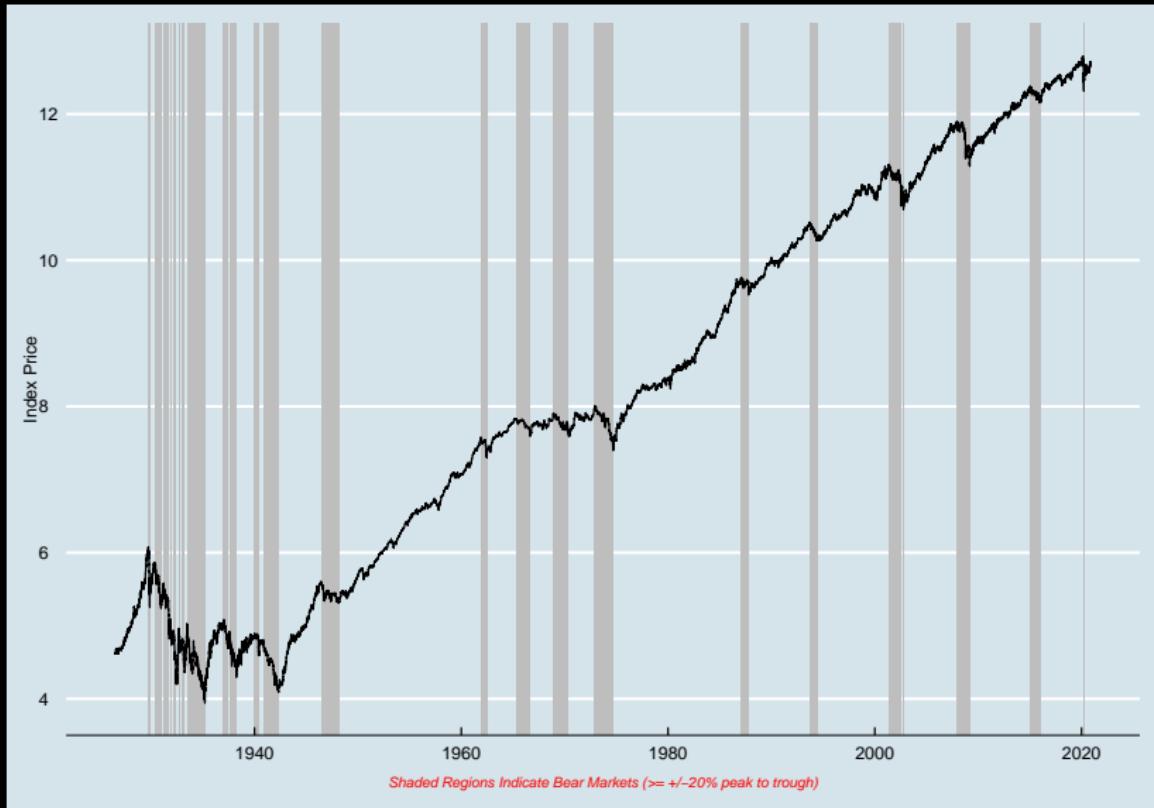
Coal



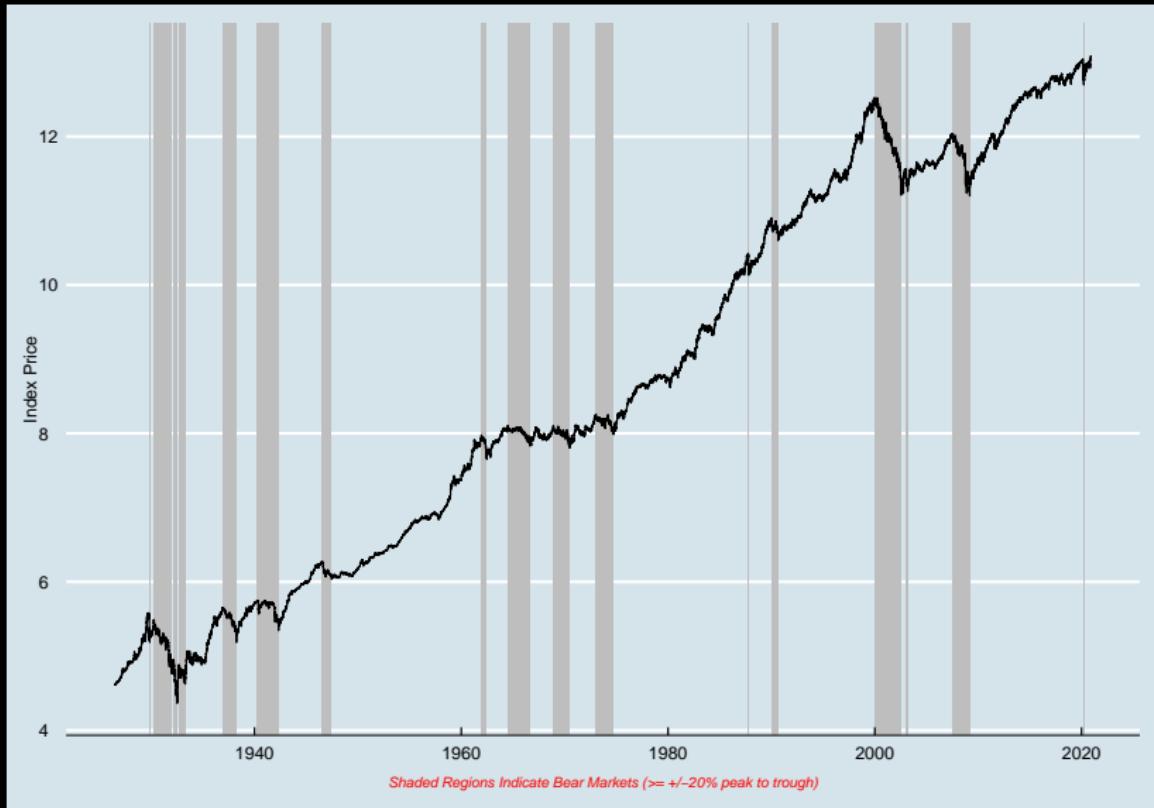
Petroleum and Natural Gas



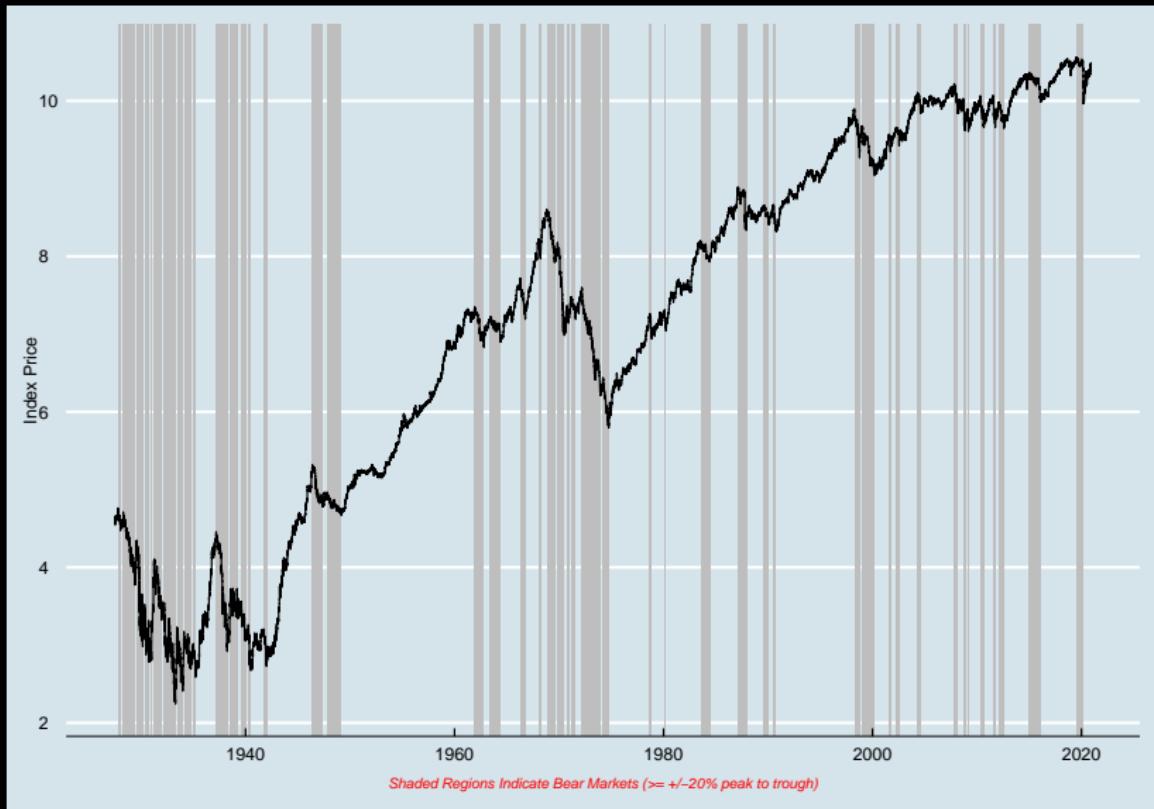
Utilities



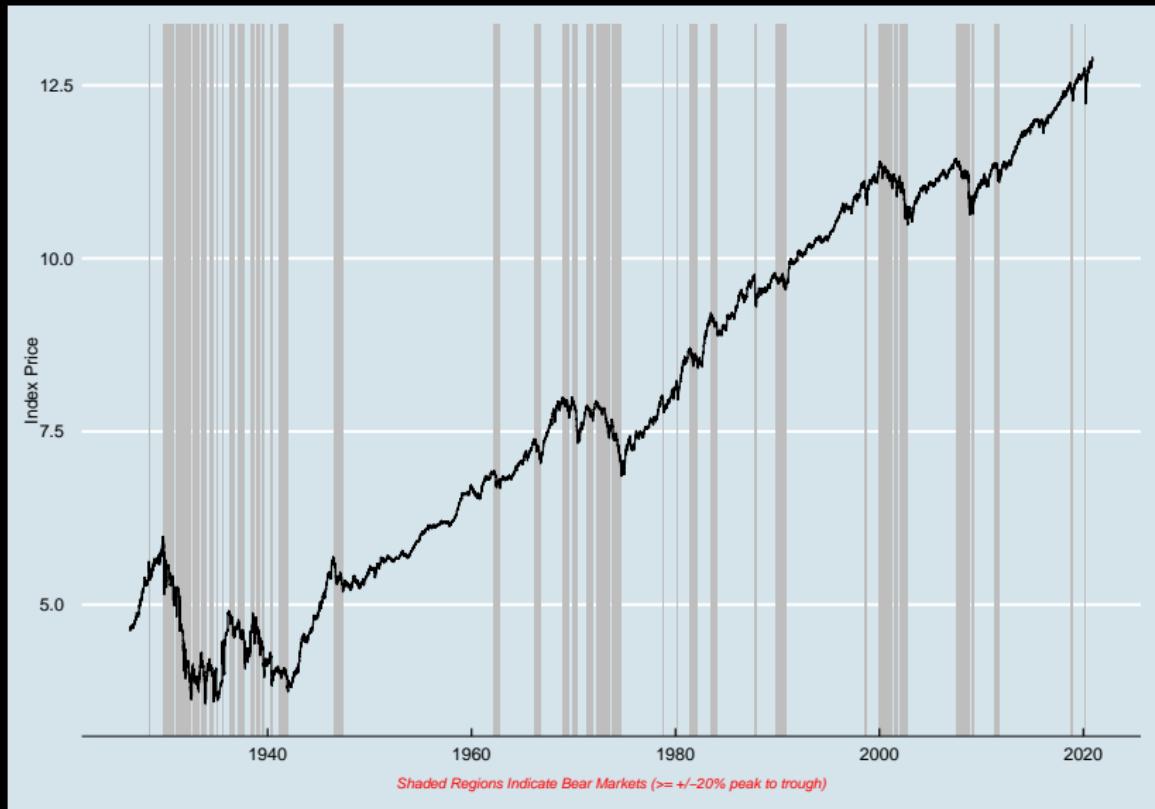
Communication



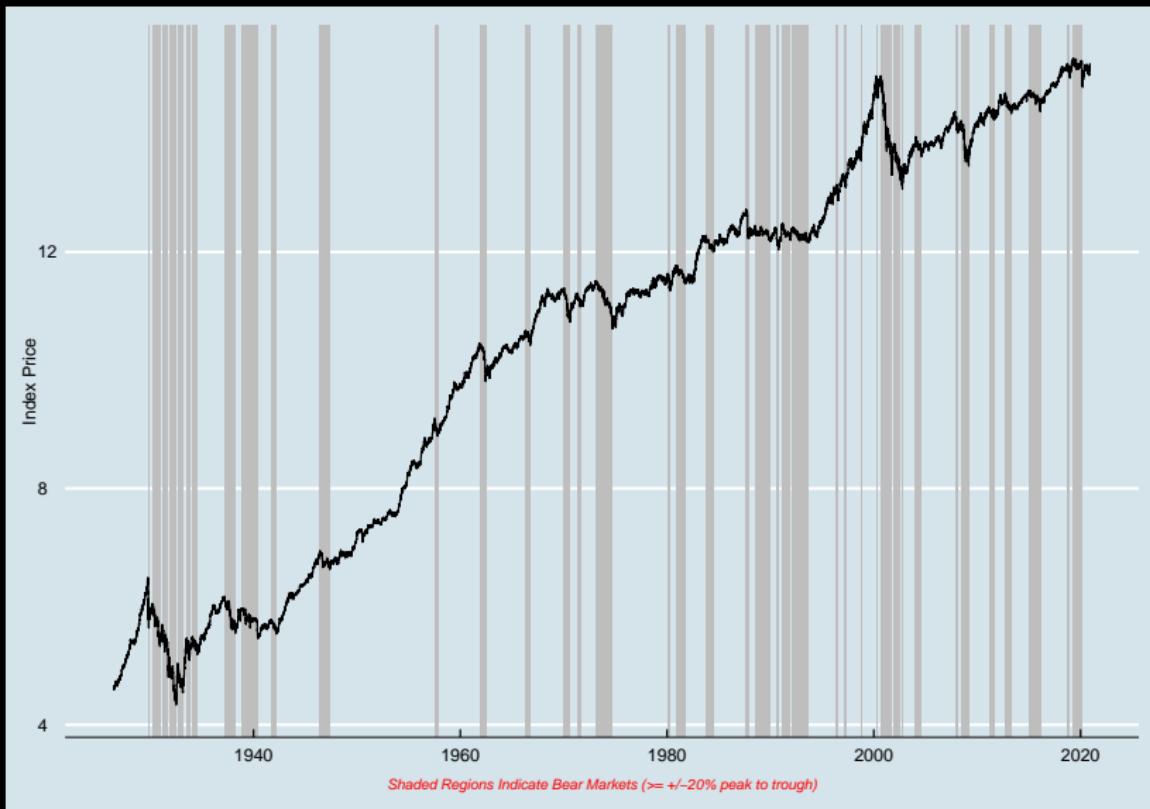
Personal Services



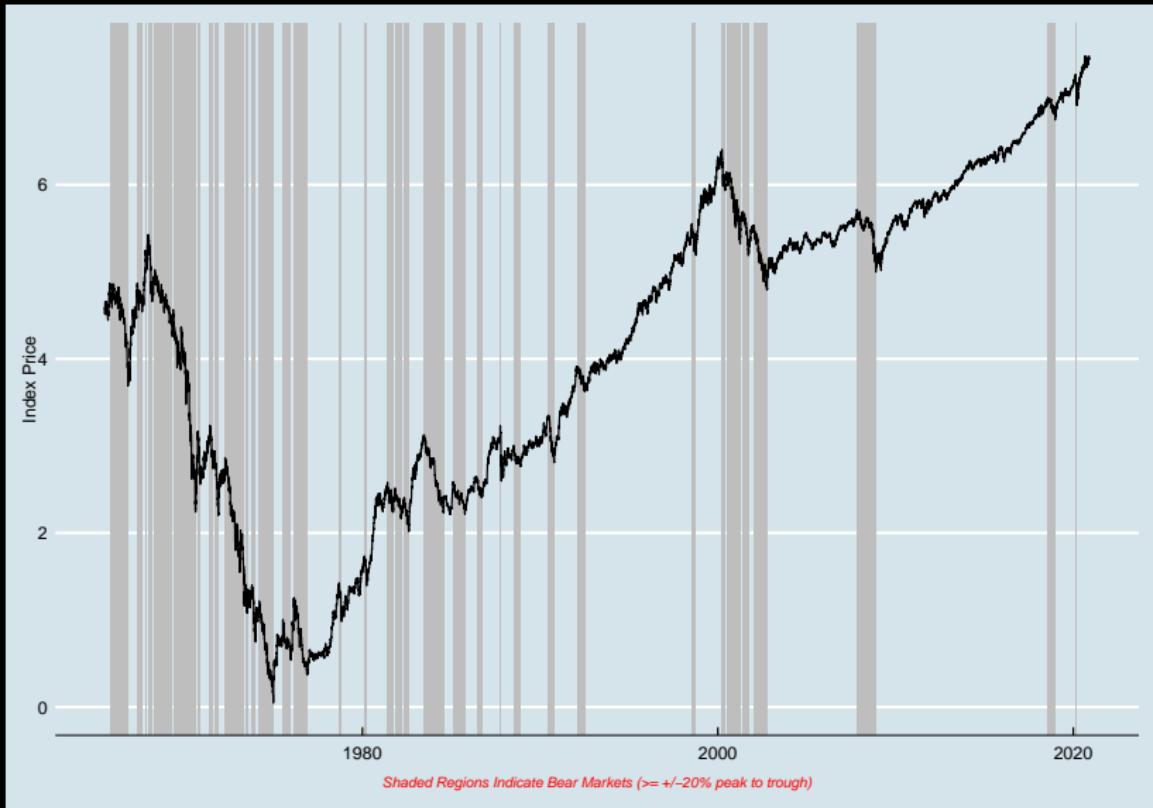
Business Services



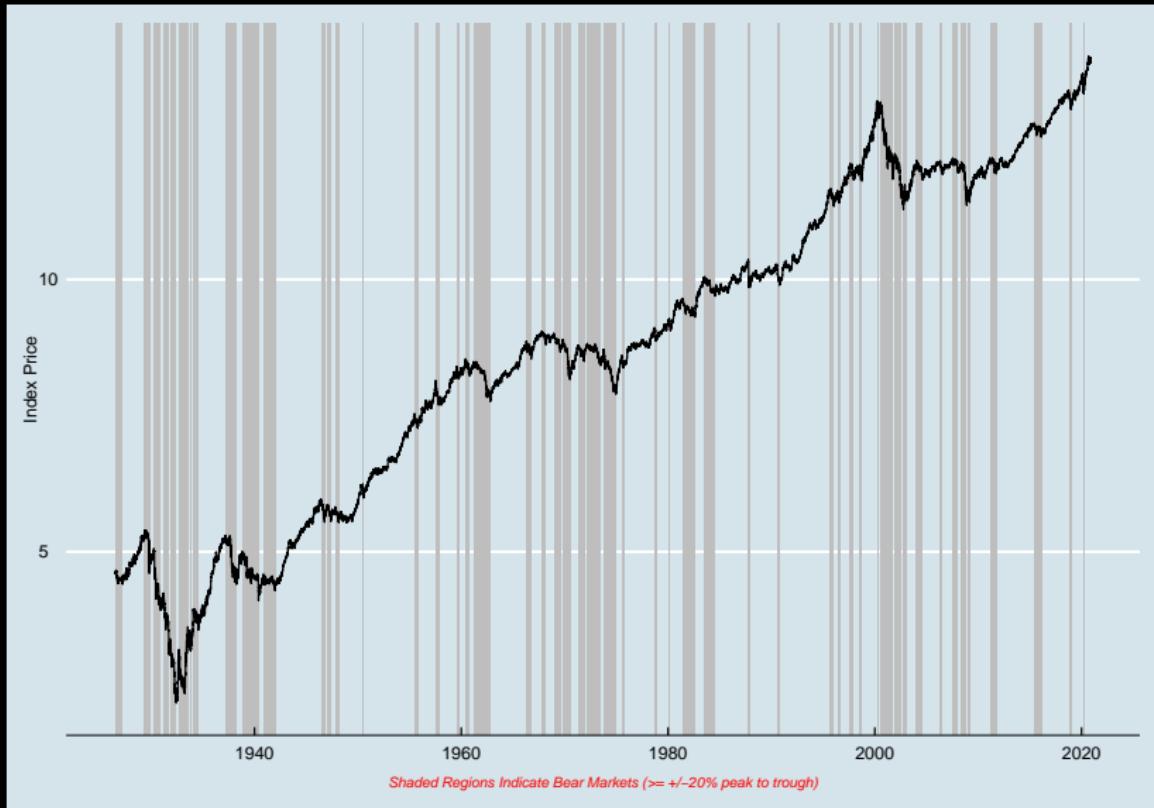
Computers



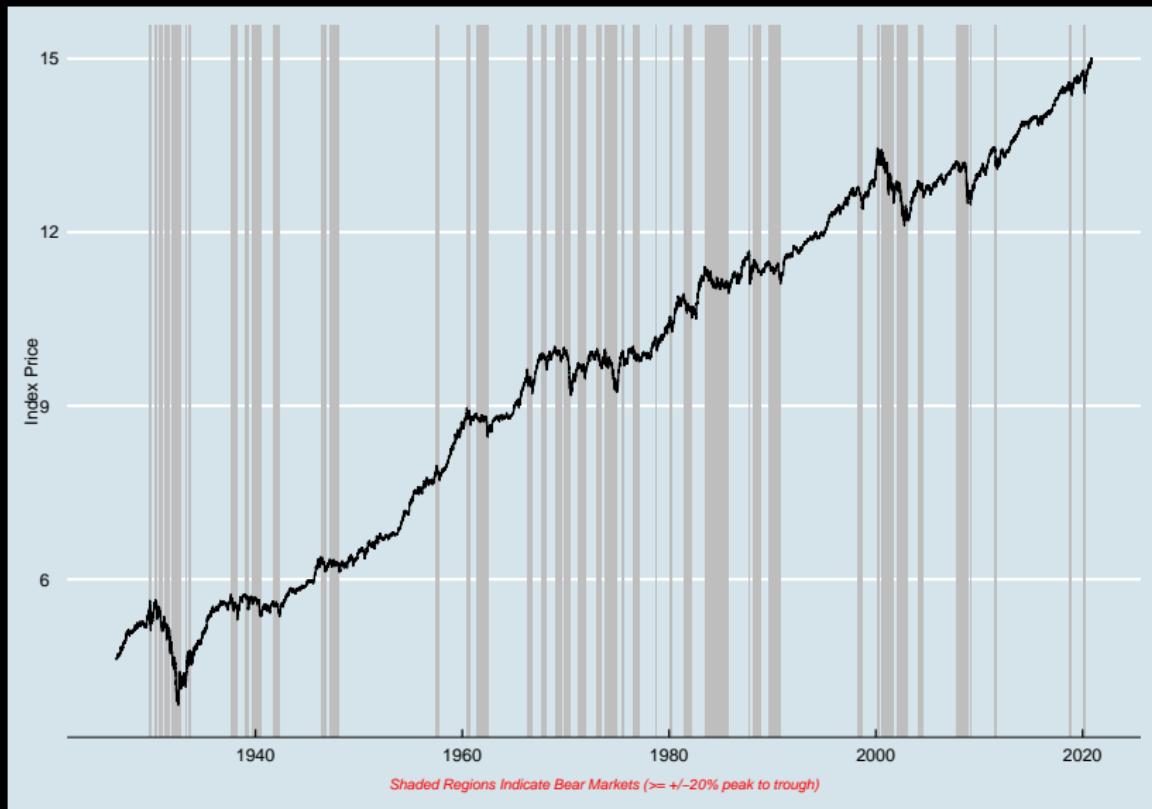
Computer Software



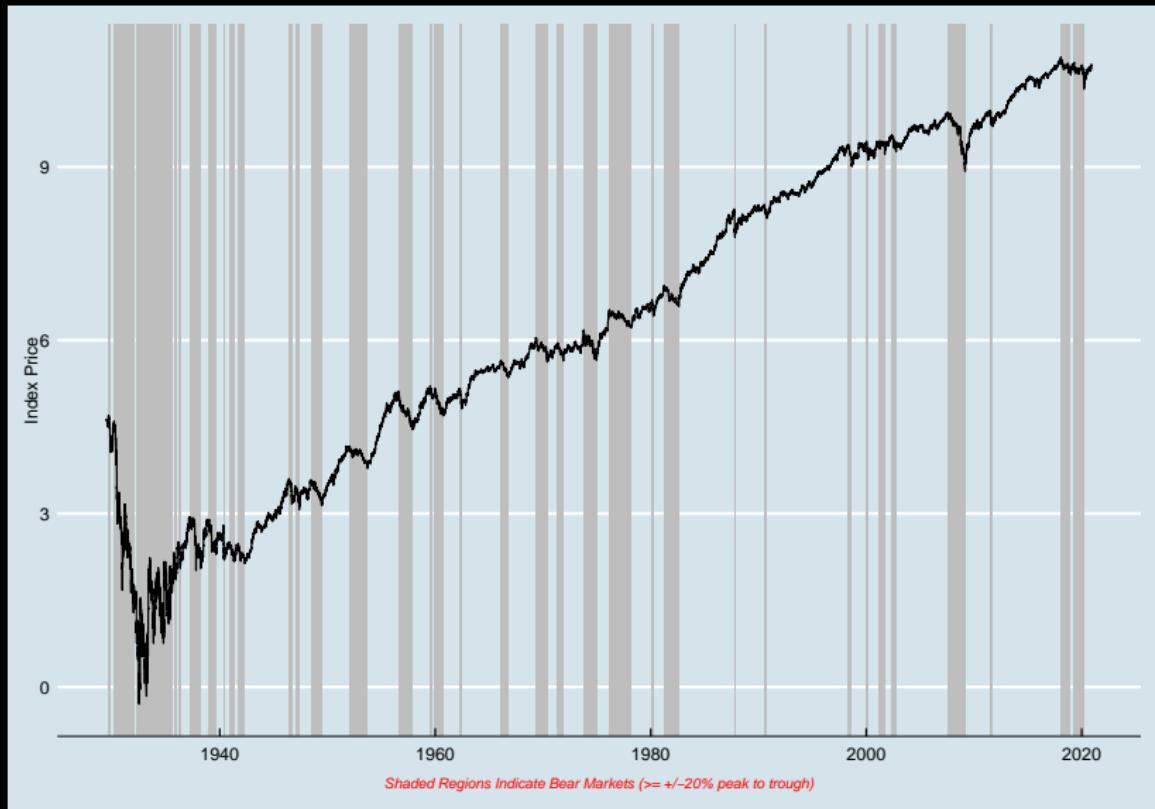
Electronic Equipment



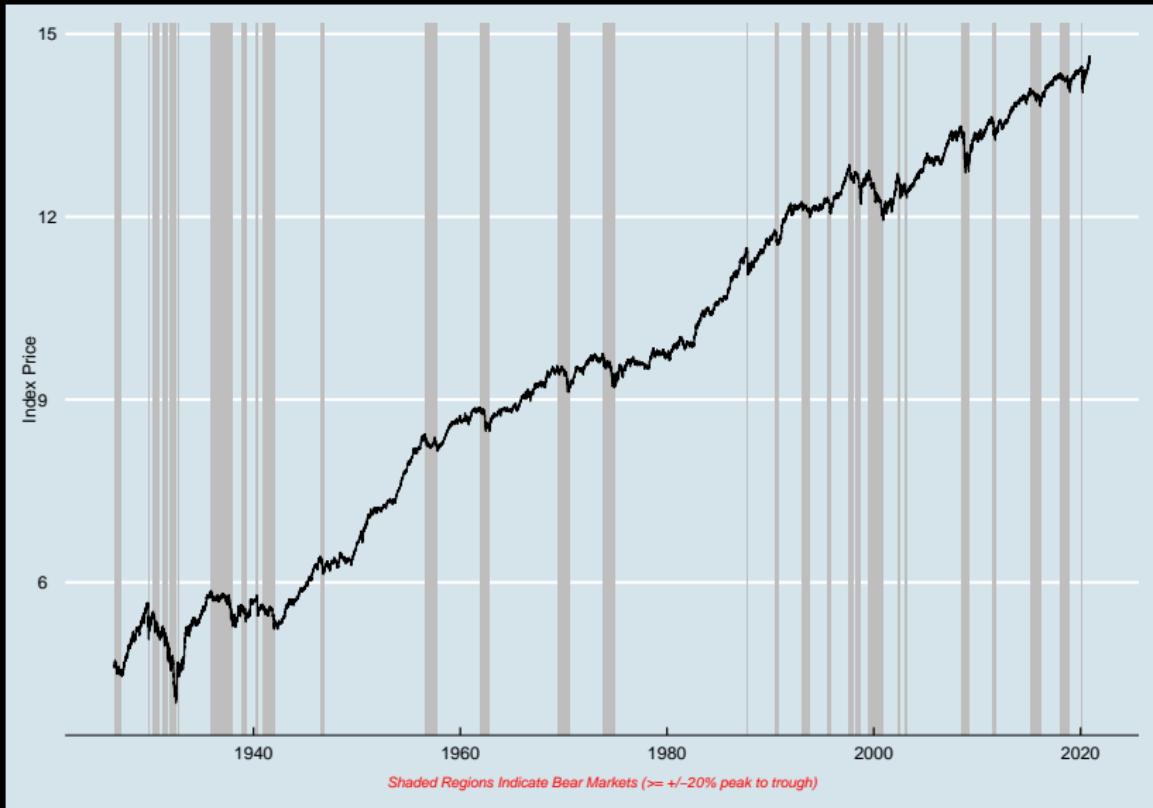
Measuring and Control Equipment



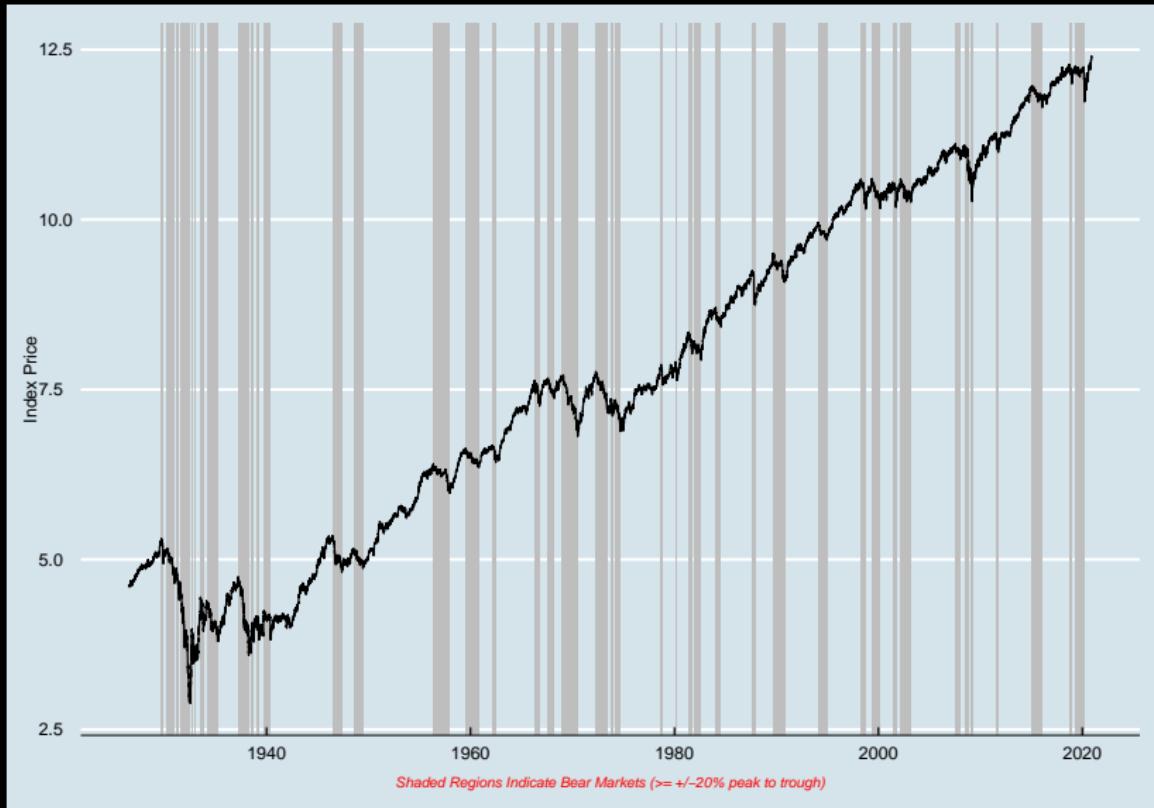
Business Supplies



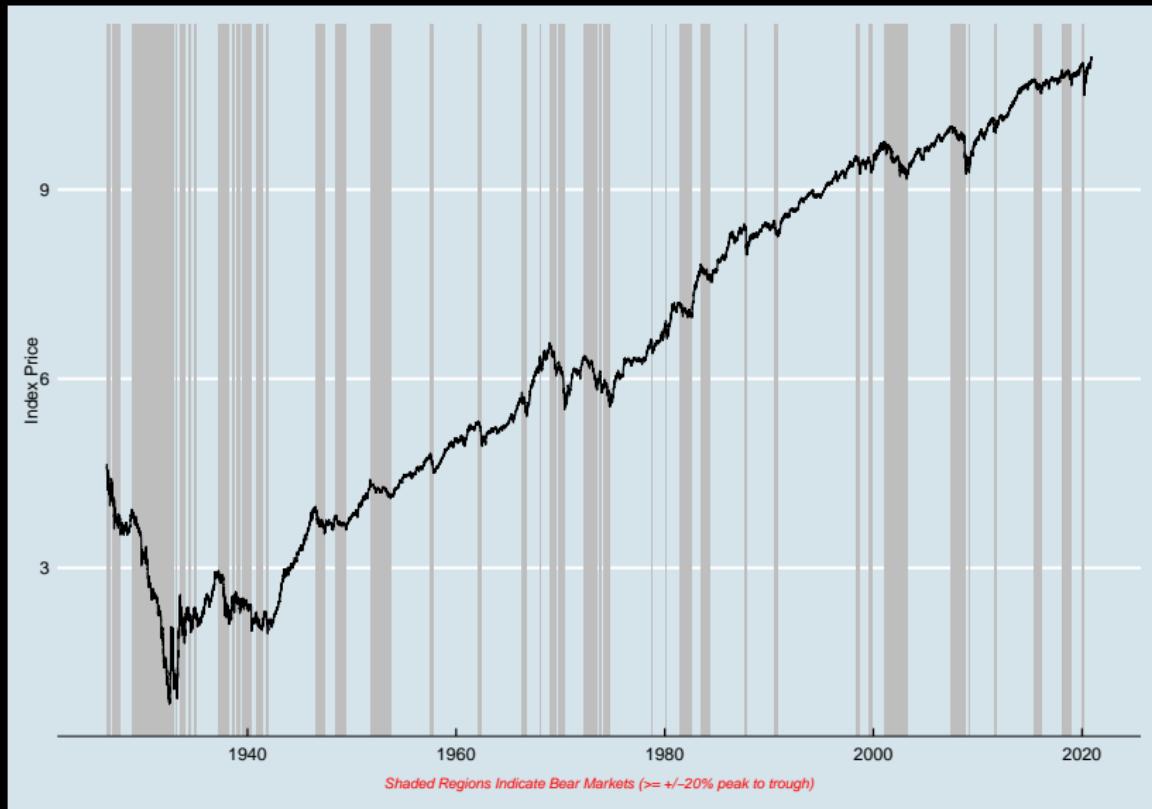
Shipping Containers



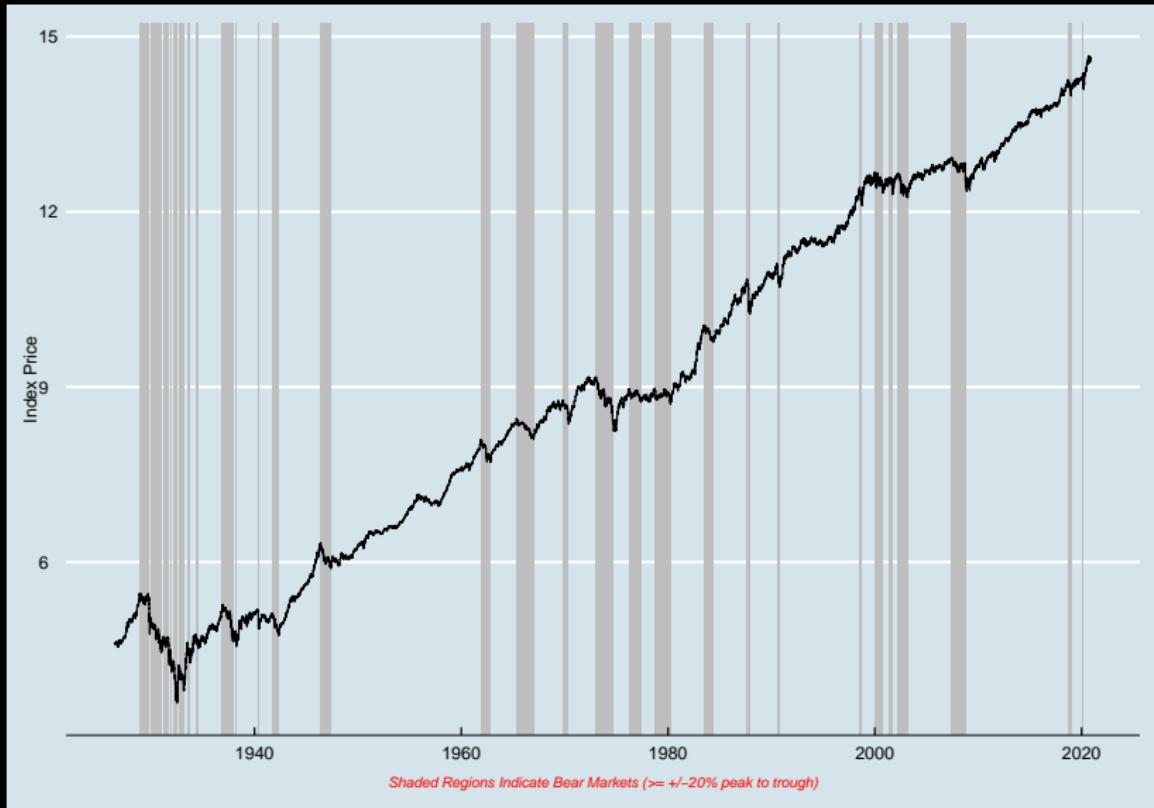
Transportation



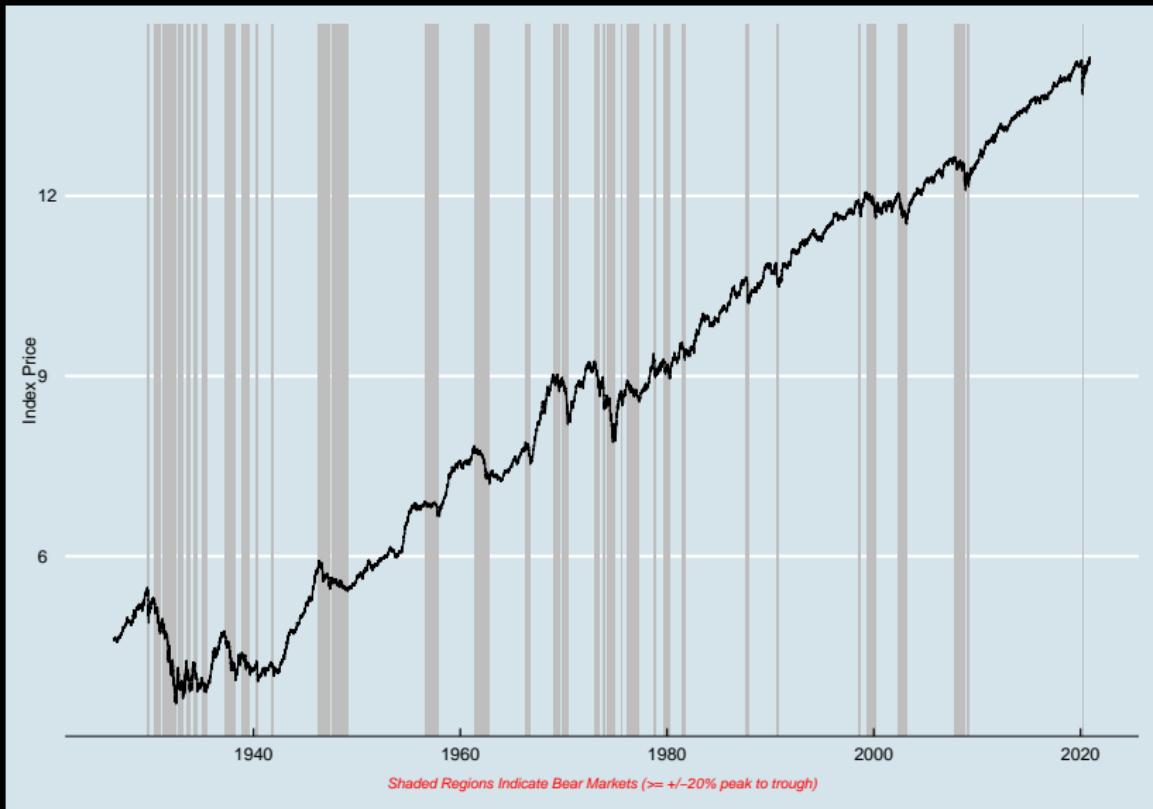
Wholesale



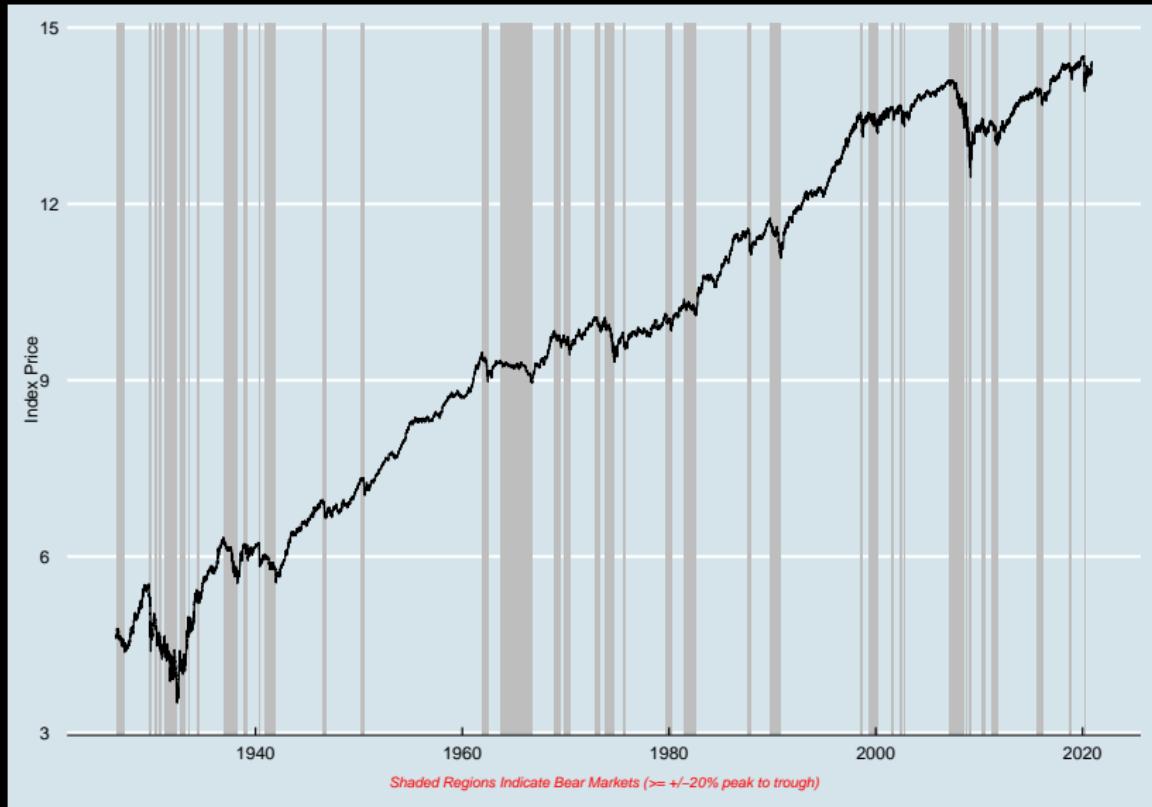
Retail



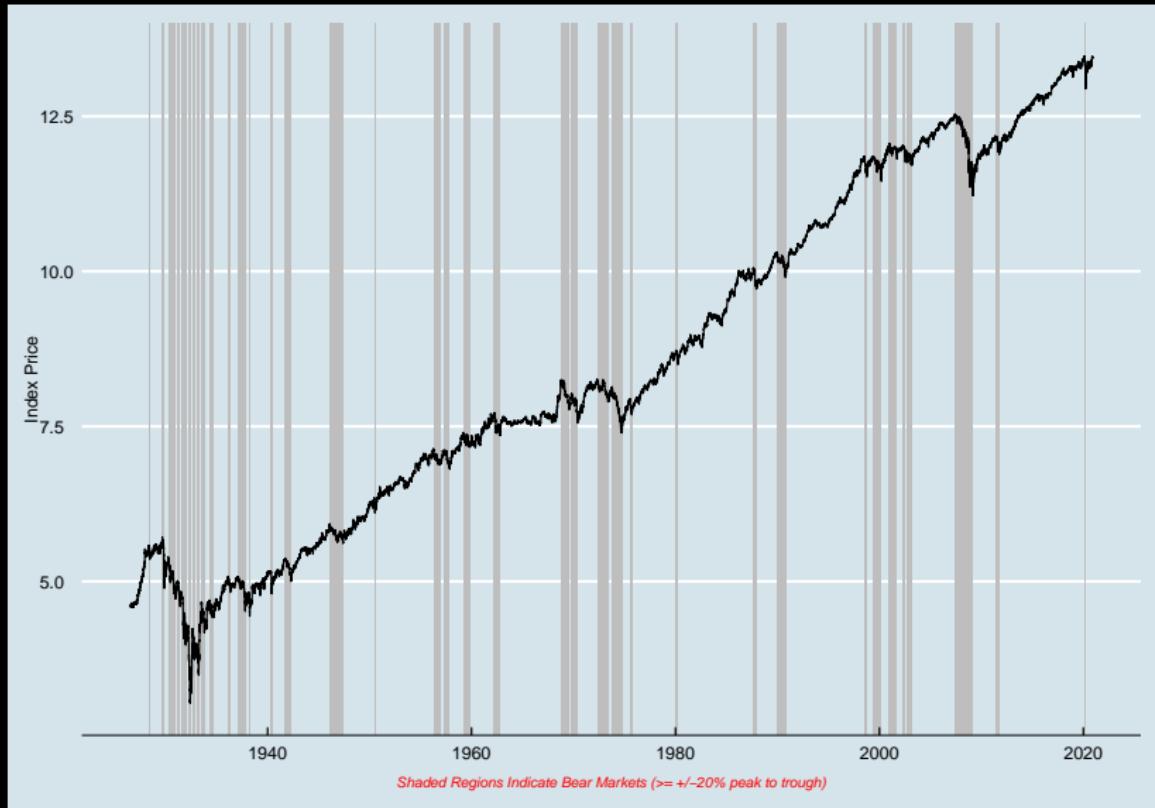
Restaurants, Hotels, Motels



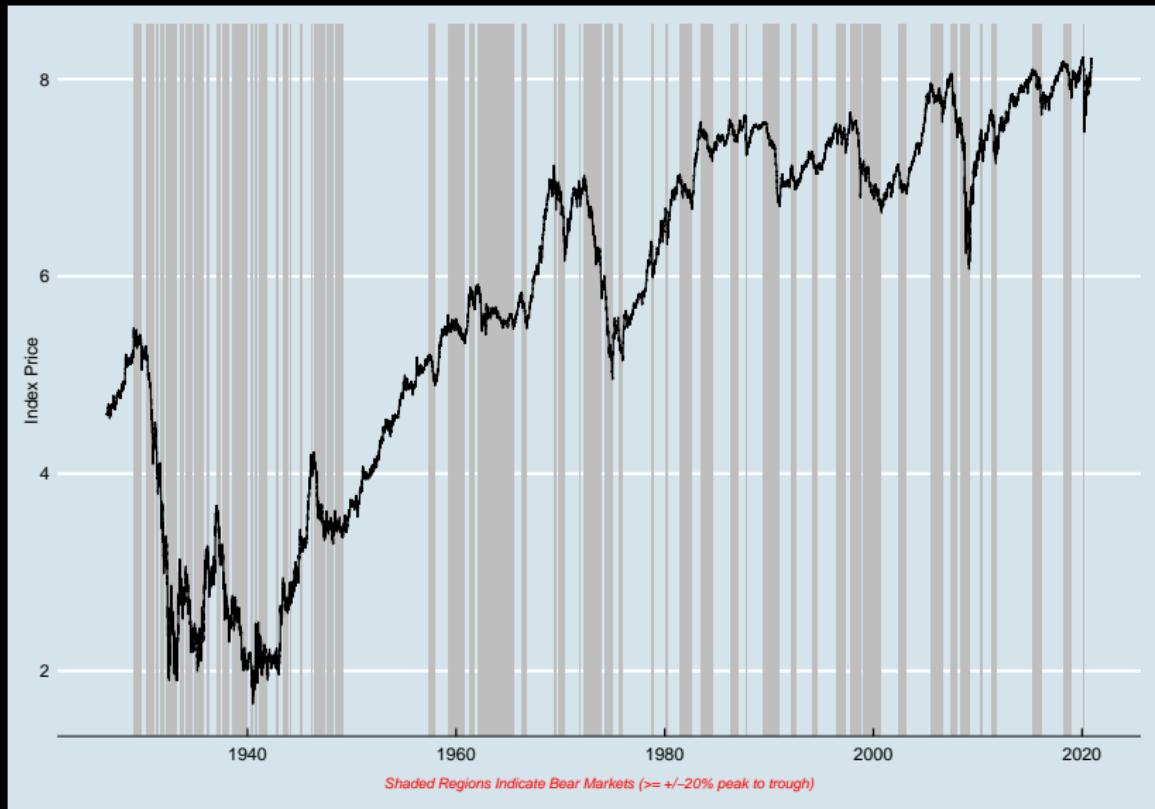
Banking



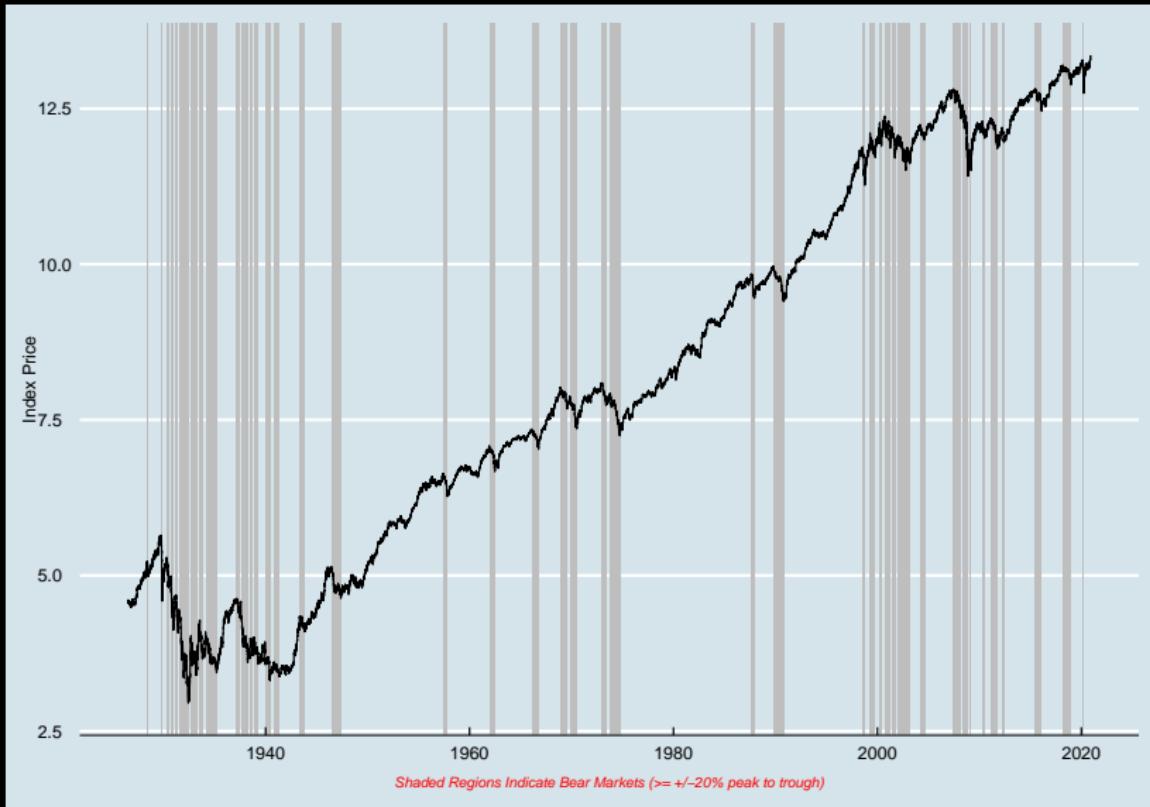
Insurance



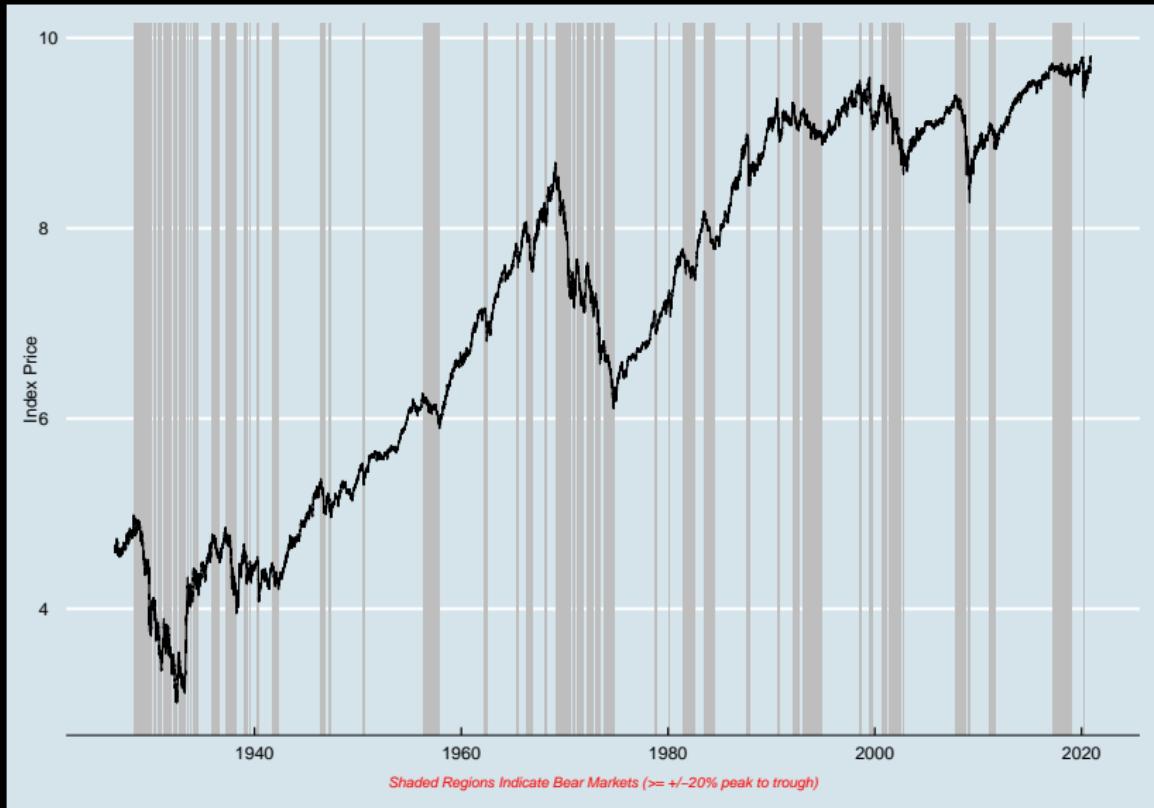
Real Estate



Trading



Other



Bear/Bull Market Tables

Bear/Bull Market Tables

- Purpose: Compute the duration (in days) and amplitude (percent change in market price) of each bear/bull regime.
- Method: Use the rules based approach of Lunde & Timmerman^{^2} with +/-20% price change thresholds. Uses the bbddetection^{^1} package for implementation.
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Agriculture

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-02-28	792	64	1929-03-01 to 1930-12-22	536	-64
1930-12-23 to 1931-03-05	59	35	1931-03-06 to 1931-06-02	74	-25
1931-06-03 to 1931-06-27	22	21	1931-06-29 to 1931-10-05	82	-50
1931-10-06 to 1931-11-09	28	13	1931-11-10 to 1931-12-14	29	-44
1931-12-15 to 1931-12-19	5	33	1931-12-21 to 1931-12-28	5	-12
1931-12-29 to 1932-01-15	15	22	1932-01-16 to 1932-02-08	20	-17
1932-02-09 to 1932-03-08	23	47	1932-03-09 to 1932-05-31	70	-59
1932-06-01 to 1932-08-22	69	167	1932-08-23 to 1932-10-10	41	-39
1932-10-11 to 1935-05-16	766	447	1935-05-17 to 1935-10-01	115	-31
1935-10-02 to 1937-03-31	447	51	1937-04-01 to 1937-11-26	197	-38
1937-11-27 to 1938-02-26	75	24	1938-02-28 to 1938-03-31	28	-20
1938-04-01 to 1939-09-11	437	95	1939-09-12 to 1940-05-22	209	-33
1940-05-23 to 1941-12-04	462	38	1941-12-05 to 1942-06-03	149	-31
1942-06-04 to 1950-06-13	2321	475	1950-06-14 to 1950-07-12	20	-22
1950-07-13 to 1951-09-13	326	52	1951-09-14 to 1953-10-27	564	-28
1953-10-28 to 1955-06-20	413	47	1955-06-21 to 1957-12-23	632	-24
1957-12-24 to 1959-07-15	393	131	1959-07-16 to 1959-09-21	47	-23
1959-09-22 to 1960-05-25	171	64	1960-05-26 to 1960-10-24	105	-37
1960-10-25 to 1961-04-03	109	34	1961-04-04 to 1962-06-14	302	-59
1962-06-15 to 1962-09-17	65	17	1962-09-18 to 1962-10-23	26	-28

Agriculture

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1962-10-24 to 1966-02-23	839	225	1966-02-24 to 1966-10-06	157	-29
1966-10-07 to 1967-07-28	203	40	1967-07-31 to 1968-03-04	149	-24
1968-03-05 to 1969-02-05	208	42	1969-02-06 to 1969-07-28	116	-27
1969-07-29 to 1970-02-25	147	36	1970-02-26 to 1970-05-26	63	-40
1970-05-27 to 1971-04-28	234	44	1971-04-29 to 1971-11-23	146	-33
1971-11-24 to 1972-04-18	101	58	1972-04-19 to 1973-06-06	284	-27
1973-06-07 to 1973-10-12	90	54	1973-10-15 to 1973-12-05	37	-25
1973-12-06 to 1974-03-15	69	35	1974-03-18 to 1974-09-30	137	-37
1974-10-01 to 1975-07-15	199	45	1975-07-16 to 1975-09-17	45	-19
1975-09-18 to 1978-09-12	754	73	1978-09-13 to 1978-10-31	35	-24
1978-11-01 to 1980-02-13	325	67	1980-02-14 to 1980-04-17	44	-27
1980-04-18 to 1981-07-16	314	99	1981-07-17 to 1982-08-13	273	-26
1982-08-16 to 1986-06-30	980	257	1986-07-01 to 1986-11-19	100	-23
1986-11-20 to 1987-08-13	184	24	1987-08-14 to 1987-12-04	79	-33
1987-12-07 to 1989-08-03	420	76	1989-08-04 to 1990-01-30	124	-25
1990-01-31 to 1990-04-17	53	16	1990-04-18 to 1990-10-11	124	-28
1990-10-12 to 1998-06-30	1950	386	1998-07-01 to 1999-03-02	168	-32
1999-03-03 to 1999-05-21	57	40	1999-05-24 to 1999-12-21	148	-26
1999-12-22 to 2002-05-15	600	49	2002-05-16 to 2002-10-09	102	-30
2002-10-10 to 2008-01-14	1324	403	2008-01-15 to 2008-03-20	46	-20

Agriculture

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2008-03-24 to 2008-06-17	61	34	2008-06-18 to 2008-10-07	78	-46
2008-10-08 to 2008-10-13	4	14	2008-10-14 to 2008-10-27	10	-20
2008-10-28 to 2008-11-04	6	13	2008-11-05 to 2008-11-20	12	-24
2008-11-21 to 2009-05-20	123	37	2009-05-21 to 2009-07-10	35	-18
2009-07-13 to 2009-08-03	16	17	2009-08-04 to 2009-10-30	63	-19
2009-11-02 to 2010-01-08	47	26	2010-01-11 to 2010-07-06	122	-44
2010-07-07 to 2011-07-25	266	52	2011-07-26 to 2011-10-03	49	-21
2011-10-04 to 2015-02-19	849	111	2015-02-20 to 2015-09-28	153	-29
2015-09-29 to 2018-06-20	687	70	2018-06-21 to 2018-12-24	129	-37
2018-12-26 to 2019-08-09	157	31	2019-08-12 to 2020-03-16	150	-29
2020-03-17 to NA	181	61		NA	NA

Food Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-09-09	951	125	1929-09-10 to 1929-11-13	51	-39
1929-11-14 to 1930-04-23	127	25	1930-04-24 to 1930-12-16	194	-27
1930-12-17 to 1931-03-20	77	20	1931-03-21 to 1931-10-05	165	-46
1931-10-06 to 1931-11-09	28	22	1931-11-10 to 1931-12-17	32	-27
1931-12-18 to 1932-03-08	65	15	1932-03-09 to 1932-06-30	96	-42
1932-07-01 to 1932-09-07	56	67	1932-09-08 to 1933-02-27	140	-26
1933-02-28 to 1933-07-18	109	103	1933-07-19 to 1933-10-21	74	-24
1933-10-23 to 1937-03-17	1022	79	1937-03-18 to 1938-03-31	311	-37
1938-04-01 to 1940-04-22	620	54	1940-04-23 to 1942-04-28	607	-33
1942-04-29 to 1946-05-28	1210	231	1946-05-29 to 1947-05-19	275	-24
1947-05-20 to 1961-11-28	3811	699	1961-11-29 to 1962-10-23	228	-33
1962-10-24 to 1965-05-13	642	64	1965-05-14 to 1966-10-06	354	-24
1966-10-07 to 1968-12-16	526	75	1968-12-17 to 1970-05-26	360	-30
1970-05-27 to 1972-12-11	645	71	1972-12-12 to 1974-10-04	457	-44
1974-10-07 to 1987-08-25	3257	1715	1987-08-26 to 1987-10-19	38	-31
1987-10-20 to 1992-12-08	1300	271	1992-12-09 to 1993-08-10	169	-26
1993-08-11 to 1998-03-24	1167	203	1998-03-25 to 2000-03-14	498	-39
2000-03-15 to 2002-04-19	525	69	2002-04-22 to 2002-07-22	64	-22
2002-07-23 to 2007-07-13	1253	95	2007-07-16 to 2009-03-09	416	-34
2009-03-10 to 2016-07-08	1847	296	2016-07-11 to 2018-12-24	620	-22

Food Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2018-12-26 to 2020-01-30	276	23	2020-01-31 to 2020-03-23	36	-24
2020-03-24 to NA	176	31		NA	NA

Candy and Soda

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1963-07-01 to 1969-11-11	1576	209	1969-11-12 to 1970-05-25	134	-23
1970-05-26 to 1972-12-13	648	138	1972-12-14 to 1974-10-04	455	-67
1974-10-07 to 1974-11-05	22	30	1974-11-06 to 1974-12-06	22	-22
1974-12-09 to 1975-06-03	122	93	1975-06-04 to 1975-09-17	74	-22
1975-09-18 to 1978-09-12	754	62	1978-09-13 to 1980-03-24	387	-30
1980-03-25 to 1986-07-02	1586	605	1986-07-03 to 1986-09-19	55	-23
1986-09-22 to 1987-08-26	236	54	1987-08-27 to 1987-10-19	37	-34
1987-10-20 to 1989-05-30	407	38	1989-05-31 to 1990-01-30	170	-24
1990-01-31 to 1990-07-19	118	17	1990-07-20 to 1990-10-16	62	-22
1990-10-17 to 1991-04-02	115	50	1991-04-03 to 1991-10-14	136	-30
1991-10-15 to 1992-01-15	64	24	1992-01-16 to 1992-08-24	154	-21
1992-08-25 to 1994-02-15	375	67	1994-02-16 to 1994-12-21	214	-29
1994-12-22 to 1998-07-16	900	390	1998-07-17 to 1998-10-01	54	-40
1998-10-02 to 1998-11-16	32	57	1998-11-17 to 1999-04-14	101	-25
1999-04-15 to 1999-06-07	37	22	1999-06-08 to 1999-12-09	130	-46
1999-12-10 to 2000-02-04	39	45	2000-02-07 to 2000-05-19	73	-30
2000-05-22 to 2001-03-01	196	53	2001-03-02 to 2001-07-24	100	-19
2001-07-25 to 2002-06-20	225	51	2002-06-21 to 2002-07-24	23	-26
2002-07-25 to 2002-10-21	62	23	2002-10-22 to 2003-03-06	93	-26
2003-03-07 to 2004-06-30	332	63	2004-07-01 to 2004-09-27	61	-23

Candy and Soda

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2004-09-28 to 2007-10-31	780	86	2007-11-01 to 2008-11-20	267	-61
2008-11-21 to 2009-01-05	29	34	2009-01-06 to 2009-03-09	43	-21
2009-03-10 to 2020-02-21	2758	744	2020-02-24 to 2020-03-23	21	-34
2020-03-24 to NA	176	40		NA	NA

Beer and Liquor

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-10-11	979	304	1929-10-14 to 1929-10-29	14	-46
1929-10-30 to 1929-10-31	2	8	1929-11-04 to 1929-11-13	7	-31
1929-11-14 to 1929-12-07	16	29	1929-12-09 to 1930-06-25	163	-53
1930-06-26 to 1930-07-16	16	24	1930-07-17 to 1930-08-13	24	-23
1930-08-14 to 1930-09-09	21	25	1930-09-10 to 1930-12-16	81	-35
1930-12-17 to 1931-02-24	56	42	1931-02-25 to 1931-06-19	97	-52
1931-06-20 to 1931-08-20	52	22	1931-08-21 to 1931-10-05	37	-34
1931-10-06 to 1931-11-12	31	35	1931-11-13 to 1931-12-17	29	-27
1931-12-18 to 1932-03-08	65	21	1932-03-09 to 1932-06-02	72	-46
1932-06-03 to 1932-09-21	92	112	1932-09-22 to 1932-10-10	16	-29
1932-10-11 to 1932-11-11	26	24	1932-11-12 to 1933-02-27	86	-38
1933-02-28 to 1933-07-17	108	498	1933-07-18 to 1933-07-21	4	-47
1933-07-22 to 1933-09-16	42	69	1933-09-18 to 1933-10-21	29	-24
1933-10-23 to 1933-11-08	14	17	1933-11-09 to 1933-12-27	40	-28
1933-12-28 to 1934-02-05	33	26	1934-02-06 to 1934-07-26	142	-50
1934-07-27 to 1935-11-02	384	102	1935-11-04 to 1936-06-12	182	-23
1936-06-13 to 1937-03-17	227	43	1937-03-18 to 1937-10-19	178	-41
1937-10-20 to 1937-11-13	20	10	1937-11-15 to 1938-03-31	113	-26
1938-04-01 to 1938-07-25	96	40	1938-07-26 to 1938-09-26	53	-21
1938-09-27 to 1938-11-14	39	43	1938-11-15 to 1939-09-01	242	-31

Beer and Liquor

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1939-09-02 to 1940-04-03	174	21	1940-04-04 to 1940-06-10	57	-36
1940-06-11 to 1946-08-14	1830	1320	1946-08-15 to 1947-05-17	220	-56
1947-05-19 to 1947-10-04	99	31	1947-10-06 to 1948-03-16	131	-20
1948-03-17 to 1951-10-13	1005	152	1951-10-15 to 1952-10-30	294	-27
1952-10-31 to 1962-01-02	2306	253	1962-01-03 to 1962-06-25	121	-24
1962-06-26 to 1966-01-19	899	85	1966-01-20 to 1966-10-10	183	-24
1966-10-11 to 1969-11-11	749	107	1969-11-12 to 1970-05-26	135	-25
1970-05-27 to 1972-08-18	567	85	1972-08-21 to 1974-10-04	535	-59
1974-10-07 to 1975-07-15	195	59	1975-07-16 to 1975-12-05	101	-22
1975-12-08 to 1976-02-20	52	33	1976-02-23 to 1978-01-10	476	-33
1978-01-11 to 1980-02-13	530	68	1980-02-14 to 1980-03-27	30	-22
1980-03-28 to 1983-10-10	894	222	1983-10-11 to 1984-03-27	117	-23
1984-03-28 to 1987-08-20	859	231	1987-08-21 to 1987-10-27	47	-27
1987-10-28 to 1990-07-19	689	175	1990-07-20 to 1990-08-23	25	-19
1990-08-24 to 1998-07-06	1987	568	1998-07-07 to 1998-10-01	62	-29
1998-10-02 to 1998-11-23	37	25	1998-11-24 to 1999-09-30	214	-24
1999-10-01 to 1999-12-03	45	28	1999-12-06 to 2000-03-14	69	-27
2000-03-15 to 2000-12-07	187	42	2000-12-08 to 2001-04-11	85	-24
2001-04-12 to 2002-05-01	261	32	2002-05-02 to 2003-03-10	215	-29
2003-03-11 to 2008-01-10	1219	81	2008-01-11 to 2009-03-05	289	-32

Beer and Liquor

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2009-03-06 to 2020-02-14	2756	446	2020-02-18 to 2020-03-23	25	-31
2020-03-24 to NA	176	39		NA	NA

Tobacco Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-02 to 1929-10-11	978	91	1929-10-14 to 1929-11-14	24	-27
1929-11-15 to 1930-03-11	91	32	1930-03-12 to 1930-12-16	229	-21
1930-12-17 to 1931-04-13	96	22	1931-04-14 to 1931-10-05	146	-36
1931-10-06 to 1931-11-09	28	14	1931-11-10 to 1931-12-17	32	-22
1931-12-18 to 1932-03-08	65	21	1932-03-09 to 1932-06-01	71	-37
1932-06-02 to 1932-09-03	79	52	1932-09-06 to 1932-11-30	71	-23
1932-12-01 to 1933-09-16	225	83	1933-09-18 to 1933-12-26	82	-21
1933-12-27 to 1936-11-19	874	77	1936-11-20 to 1938-03-31	406	-30
1938-04-01 to 1940-05-09	635	51	1940-05-10 to 1942-04-28	592	-47
1942-04-29 to 1946-05-29	1211	171	1946-05-31 to 1947-05-19	274	-24
1947-05-20 to 1953-08-07	1721	80	1953-08-10 to 1954-07-01	224	-23
1954-07-02 to 1961-11-28	1866	718	1961-11-29 to 1962-10-23	228	-52
1962-10-24 to 1965-10-27	758	54	1965-10-28 to 1966-10-07	239	-21
1966-10-10 to 1969-01-03	536	76	1969-01-06 to 1969-07-30	141	-20
1969-07-31 to 1969-11-14	76	29	1969-11-17 to 1970-05-26	132	-21
1970-05-27 to 1971-04-28	234	89	1971-04-29 to 1971-11-23	146	-20
1971-11-24 to 1972-07-07	157	54	1972-07-10 to 1972-10-16	70	-23
1972-10-17 to 1973-01-23	66	20	1973-01-24 to 1974-10-03	428	-37
1974-10-04 to 1985-04-02	2653	841	1985-04-03 to 1985-10-08	130	-21
1985-10-09 to 1987-08-26	476	228	1987-08-27 to 1987-12-03	69	-29

Tobacco Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1987-12-04 to 1992-01-15	1040	268	1992-01-16 to 1993-08-12	399	-36
1993-08-13 to 1994-02-03	122	31	1994-02-04 to 1994-04-04	40	-18
1994-04-05 to 1998-01-13	955	113	1998-01-14 to 1998-05-18	86	-24
1998-05-19 to 1998-11-23	132	64	1998-11-24 to 1999-04-19	99	-41
1999-04-20 to 1999-06-15	40	25	1999-06-16 to 2000-03-10	187	-53
2000-03-13 to 2002-06-04	558	230	2002-06-05 to 2002-07-19	32	-26
2002-07-22 to 2002-08-19	21	23	2002-08-20 to 2003-04-01	155	-42
2003-04-02 to 2004-03-10	237	101	2004-03-11 to 2004-05-24	52	-19
2004-05-25 to 2008-01-09	913	160	2008-01-10 to 2009-03-03	288	-38
2009-03-04 to 2017-06-19	2089	594	2017-06-20 to 2018-06-06	243	-30
2018-06-07 to 2018-10-30	102	20	2018-10-31 to 2018-12-24	37	-25
2018-12-26 to 2019-03-21	59	28	2019-03-22 to 2019-09-19	126	-22
2019-09-20 to 2020-01-22	85	28	2020-01-23 to 2020-03-23	42	-33
2020-03-24 to NA	176	25		NA	NA

Recreation

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1926-09-14	61	48	1926-09-15 to 1928-02-23	433	-32
1928-02-24 to 1928-05-14	64	57	1928-05-15 to 1928-06-12	22	-23
1928-06-13 to 1928-09-19	83	42	1928-09-20 to 1929-11-13	339	-67
1929-11-14 to 1929-11-20	5	26	1929-11-21 to 1930-02-24	74	-30
1930-02-25 to 1930-03-31	30	61	1930-04-01 to 1930-06-25	70	-37
1930-06-26 to 1930-09-09	61	26	1930-09-10 to 1930-12-16	81	-31
1930-12-17 to 1931-02-13	48	15	1931-02-14 to 1931-06-03	91	-41
1931-06-04 to 1931-06-25	19	30	1931-06-26 to 1931-10-05	84	-47
1931-10-06 to 1931-10-22	14	20	1931-10-23 to 1931-12-17	46	-47
1931-12-18 to 1931-12-21	3	11	1931-12-22 to 1931-12-29	5	-18
1931-12-30 to 1932-01-21	19	33	1932-01-22 to 1932-02-03	11	-30
1932-02-04 to 1932-03-03	23	11	1932-03-04 to 1932-05-26	71	-51
1932-05-27 to 1932-05-27	1	0	1932-05-28 to 1932-05-31	2	-23
1932-06-01 to 1932-06-13	11	18	1932-06-14 to 1932-06-30	15	-26
1932-07-01 to 1932-07-30	24	40	1932-08-01 to 1932-08-05	5	-15
1932-08-06 to 1932-09-08	28	87	1932-09-09 to 1932-11-03	47	-36
1932-11-04 to 1932-11-10	5	38	1932-11-11 to 1932-11-16	5	-21
1932-11-17 to 1932-11-19	3	2	1932-11-21 to 1932-12-06	13	-24
1932-12-07 to 1932-12-07	1	0	1932-12-08 to 1932-12-08	1	0
1932-12-09 to 1932-12-09	1	0	1932-12-10 to 1932-12-13	3	-18

Recreation

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1932-12-14 to 1932-12-17	4	10	1932-12-19 to 1932-12-29	9	-22
1932-12-30 to 1933-01-04	4	9	1933-01-05 to 1933-03-03	47	-24
1933-03-15 to 1933-05-15	52	95	1933-05-16 to 1933-05-17	2	-19
1933-05-18 to 1933-05-31	11	47	1933-06-01 to 1933-06-16	14	-21
1933-06-17 to 1933-06-26	8	82	1933-06-27 to 1933-07-21	21	-45
1933-07-22 to 1933-09-14	40	55	1933-09-15 to 1933-09-21	6	-23
1933-09-22 to 1933-10-04	11	15	1933-10-05 to 1933-10-31	22	-41
1933-11-01 to 1933-12-07	30	23	1933-12-08 to 1933-12-28	17	-34
1933-12-29 to 1934-04-21	94	61	1934-04-23 to 1934-07-26	80	-50
1934-07-27 to 1934-08-02	6	17	1934-08-03 to 1934-10-02	51	-25
1934-10-03 to 1934-11-15	35	20	1934-11-16 to 1934-12-27	34	-18
1934-12-28 to 1935-01-10	11	22	1935-01-11 to 1935-03-14	52	-30
1935-03-15 to 1935-05-24	60	30	1935-05-25 to 1935-07-17	44	-26
1935-07-18 to 1936-03-24	206	150	1936-03-25 to 1936-07-08	88	-28
1936-07-09 to 1937-01-11	152	125	1937-01-12 to 1937-10-19	232	-67
1937-10-20 to 1937-10-29	9	29	1937-10-30 to 1937-11-24	20	-30
1937-11-26 to 1937-12-08	11	14	1937-12-09 to 1937-12-28	16	-19
1937-12-29 to 1938-01-12	12	22	1938-01-13 to 1938-03-29	63	-38
1938-03-30 to 1938-04-22	20	43	1938-04-23 to 1938-05-27	30	-21
1938-05-28 to 1938-09-07	85	54	1938-09-08 to 1938-09-17	9	-21

Recreation

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1938-09-19 to 1938-10-22	29	56	1938-10-24 to 1939-01-26	77	-19
1939-01-27 to 1939-03-14	38	41	1939-03-15 to 1939-04-08	21	-30
1939-04-10 to 1940-04-06	300	215	1940-04-08 to 1940-05-21	38	-49
1940-05-22 to 1940-11-19	150	60	1940-11-20 to 1942-04-17	423	-50
1942-04-18 to 1943-07-09	370	119	1943-07-10 to 1943-11-30	118	-23
1943-12-01 to 1946-04-23	702	217	1946-04-24 to 1946-10-09	123	-39
1946-10-10 to 1947-02-03	94	19	1947-02-04 to 1947-05-17	86	-23
1947-05-19 to 1947-09-02	75	43	1947-09-03 to 1948-02-11	128	-29
1948-02-13 to 1948-05-24	85	28	1948-05-25 to 1949-06-28	307	-35
1949-06-29 to 1950-03-06	191	51	1950-03-07 to 1950-07-13	102	-22
1950-07-14 to 1957-07-08	1817	316	1957-07-09 to 1957-10-21	74	-26
1957-10-22 to 1961-03-08	851	981	1961-03-09 to 1962-05-28	307	-64
1962-05-29 to 1962-05-31	2	8	1962-06-01 to 1962-10-23	101	-43
1962-10-24 to 1966-04-13	873	234	1966-04-14 to 1966-12-30	181	-47
1967-01-03 to 1968-12-05	462	69	1968-12-06 to 1969-07-29	157	-28
1969-07-30 to 1969-10-24	62	23	1969-10-27 to 1970-05-26	147	-52
1970-05-27 to 1971-06-03	259	98	1971-06-04 to 1971-11-23	121	-20
1971-11-24 to 1972-05-25	128	48	1972-05-26 to 1973-07-05	277	-52
1973-07-06 to 1973-10-12	70	40	1973-10-15 to 1973-12-21	49	-39
1973-12-24 to 1974-03-13	55	34	1974-03-14 to 1974-12-24	199	-52

Recreation

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1974-12-26 to 1975-07-15	139	87	1975-07-16 to 1975-09-16	44	-20
1975-09-17 to 1976-07-12	207	50	1976-07-13 to 1977-11-01	331	-28
1977-11-02 to 1978-09-08	215	46	1978-09-11 to 1979-02-28	119	-24
1979-03-01 to 1980-02-07	239	51	1980-02-08 to 1980-04-21	50	-29
1980-04-22 to 1980-11-26	153	80	1980-11-28 to 1981-02-25	61	-20
1981-02-26 to 1981-05-28	64	32	1981-05-29 to 1981-09-25	84	-24
1981-09-28 to 1983-07-21	460	117	1983-07-22 to 1984-06-14	228	-29
1984-06-15 to 1986-04-28	471	71	1986-04-29 to 1986-12-30	171	-21
1986-12-31 to 1987-08-26	166	66	1987-08-27 to 1987-10-26	42	-48
1987-10-27 to 1989-10-10	495	137	1989-10-11 to 1990-10-16	257	-42
1990-10-17 to 1998-03-13	1872	401	1998-03-16 to 1998-10-08	145	-37
1998-10-09 to 1998-11-04	19	28	1998-11-05 to 1998-12-15	28	-27
1998-12-16 to 1999-05-12	101	34	1999-05-13 to 2000-10-17	363	-45
2000-10-18 to 2001-06-05	158	40	2001-06-06 to 2001-09-27	76	-22
2001-09-28 to 2002-04-25	144	42	2002-04-26 to 2002-07-23	61	-24
2002-07-24 to 2002-08-22	22	15	2002-08-23 to 2002-10-10	34	-22
2002-10-11 to 2005-02-04	584	82	2005-02-07 to 2005-05-13	68	-20
2005-05-16 to 2007-05-03	495	48	2007-05-04 to 2008-01-15	177	-47
2008-01-16 to 2008-08-11	144	26	2008-08-12 to 2008-11-20	72	-51
2008-11-21 to 2009-01-06	30	33	2009-01-07 to 2009-03-09	42	-35

Recreation

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2009-03-10 to 2011-05-12	550	159	2011-05-13 to 2011-08-08	60	-22
2011-08-09 to 2015-04-24	933	110	2015-04-27 to 2015-10-01	111	-20
2015-10-02 to 2017-07-21	454	38	2017-07-24 to 2018-04-20	188	-19
2018-04-23 to 2018-09-19	105	31	2018-09-20 to 2018-12-24	66	-37
2018-12-26 to 2019-09-17	183	74	2019-09-18 to 2020-03-16	124	-50
2020-03-17 to NA	181	189		NA	NA

Entertainment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-03-01	793	104	1929-03-02 to 1929-10-29	200	-44
1929-10-30 to 1929-10-31	2	18	1929-11-04 to 1929-11-13	7	-25
1929-11-14 to 1930-04-23	127	82	1930-04-24 to 1930-08-12	91	-36
1930-08-13 to 1930-09-10	23	19	1930-09-11 to 1930-12-16	80	-46
1930-12-17 to 1931-02-16	50	34	1931-02-17 to 1931-06-02	88	-56
1931-06-03 to 1931-06-27	22	29	1931-06-29 to 1931-10-05	82	-55
1931-10-06 to 1931-11-07	27	20	1931-11-09 to 1931-12-28	40	-56
1931-12-29 to 1932-01-13	13	47	1932-01-14 to 1932-02-10	24	-24
1932-02-11 to 1932-03-05	19	11	1932-03-07 to 1932-05-31	72	-69
1932-06-01 to 1932-06-15	13	32	1932-06-16 to 1932-07-08	18	-19
1932-07-09 to 1932-09-10	54	230	1932-09-12 to 1932-09-19	7	-25
1932-09-20 to 1932-09-21	2	18	1932-09-22 to 1932-11-03	36	-38
1932-11-04 to 1932-11-12	7	22	1932-11-14 to 1932-12-23	34	-37
1932-12-24 to 1933-01-04	8	17	1933-01-05 to 1933-03-30	61	-56
1933-03-31 to 1933-07-10	84	309	1933-07-11 to 1933-07-22	11	-31
1933-07-24 to 1933-09-16	41	34	1933-09-18 to 1933-10-19	27	-30
1933-10-20 to 1934-04-14	145	53	1934-04-16 to 1934-07-26	86	-48
1934-07-27 to 1934-12-05	108	52	1934-12-06 to 1935-03-18	84	-21
1935-03-19 to 1936-03-03	289	163	1936-03-04 to 1936-06-04	78	-20
1936-06-05 to 1937-04-19	261	81	1937-04-20 to 1937-10-18	150	-43

Entertainment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1937-10-19 to 1937-10-30	11	24	1937-11-01 to 1937-12-28	46	-30
1937-12-29 to 1938-01-10	10	23	1938-01-11 to 1938-03-31	67	-38
1938-04-01 to 1938-07-19	91	68	1938-07-20 to 1938-09-27	59	-15
1938-09-28 to 1938-11-12	37	29	1938-11-14 to 1939-04-08	120	-39
1939-04-10 to 1939-07-27	92	30	1939-07-28 to 1939-09-11	38	-33
1939-09-12 to 1939-10-25	37	25	1939-10-26 to 1940-05-21	171	-47
1940-05-22 to 1943-07-14	947	399	1943-07-15 to 1943-11-08	97	-22
1943-11-09 to 1946-05-11	735	274	1946-05-13 to 1947-05-19	288	-46
1947-05-20 to 1947-07-14	39	23	1947-07-15 to 1948-02-27	175	-35
1948-02-28 to 1948-05-22	72	34	1948-05-24 to 1948-11-12	125	-23
1948-11-13 to 1949-12-17	312	44	1949-12-19 to 1950-07-12	163	-22
1950-07-13 to 1951-10-05	342	53	1951-10-06 to 1952-10-30	300	-27
1952-10-31 to 1957-06-11	1158	149	1957-06-12 to 1957-12-30	139	-25
1957-12-31 to 1961-04-17	831	225	1961-04-18 to 1962-06-26	300	-44
1962-06-27 to 1962-09-17	57	20	1962-09-18 to 1962-10-23	26	-19
1962-10-24 to 1966-04-26	882	99	1966-04-27 to 1966-10-07	115	-29
1966-10-10 to 1968-01-18	321	163	1968-01-19 to 1968-03-05	31	-20
1968-03-06 to 1968-12-03	166	78	1968-12-05 to 1969-07-29	158	-42
1969-07-30 to 1969-11-05	70	35	1969-11-06 to 1970-05-26	139	-48
1970-05-27 to 1970-06-03	6	17	1970-06-04 to 1970-08-13	50	-17

Entertainment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1970-08-14 to 1971-05-13	189	125	1971-05-14 to 1971-11-22	134	-21
1971-11-23 to 1973-01-02	279	94	1973-01-03 to 1973-06-25	120	-44
1973-06-26 to 1973-07-25	21	21	1973-07-26 to 1974-01-10	117	-48
1974-01-11 to 1974-03-13	43	33	1974-03-14 to 1974-10-04	143	-50
1974-10-07 to 1974-11-11	26	20	1974-11-12 to 1974-12-16	24	-17
1974-12-17 to 1975-07-15	145	184	1975-07-16 to 1975-08-20	26	-22
1975-08-21 to 1976-02-24	129	41	1976-02-25 to 1976-10-12	161	-21
1976-10-13 to 1978-09-12	483	97	1978-09-13 to 1978-10-31	35	-25
1978-11-01 to 1981-06-04	654	140	1981-06-05 to 1981-09-25	79	-25
1981-09-28 to 1982-11-03	280	56	1982-11-04 to 1982-12-15	29	-21
1982-12-16 to 1983-06-16	127	30	1983-06-17 to 1983-11-10	103	-21
1983-11-11 to 1986-07-01	665	181	1986-07-02 to 1986-09-12	51	-27
1986-09-15 to 1987-08-21	238	65	1987-08-24 to 1987-10-26	45	-44
1987-10-27 to 1989-10-09	494	143	1989-10-10 to 1990-09-24	242	-39
1990-09-25 to 1998-05-04	1923	350	1998-05-05 to 1998-10-08	110	-39
1998-10-09 to 1999-04-26	136	56	1999-04-27 to 1999-10-18	122	-17
1999-10-19 to 2000-07-14	187	61	2000-07-17 to 2000-10-17	66	-29
2000-10-18 to 2000-11-07	15	17	2000-11-08 to 2001-01-02	37	-28
2001-01-03 to 2001-01-18	11	17	2001-01-19 to 2001-03-22	44	-24
2001-03-23 to 2001-05-21	41	37	2001-05-22 to 2001-09-21	82	-38

Entertainment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2001-09-24 to 2002-04-19	144	75	2002-04-22 to 2002-07-25	67	-36
2002-07-26 to 2002-12-02	90	35	2002-12-03 to 2003-02-13	50	-25
2003-02-14 to 2007-10-02	1166	217	2007-10-03 to 2008-07-15	197	-52
2008-07-16 to 2008-08-14	22	27	2008-08-15 to 2008-10-27	51	-64
2008-10-28 to 2008-10-31	4	40	2008-11-03 to 2008-11-20	14	-40
2008-11-21 to 2009-01-06	30	58	2009-01-07 to 2009-03-09	42	-42
2009-03-10 to 2009-05-05	40	87	2009-05-06 to 2009-07-08	44	-19
2009-07-09 to 2009-09-15	48	67	2009-09-16 to 2009-10-28	31	-19
2009-10-29 to 2010-04-26	122	56	2010-04-27 to 2010-07-06	49	-20
2010-07-07 to 2011-07-22	265	75	2011-07-25 to 2011-10-03	50	-31
2011-10-04 to 2012-03-26	120	35	2012-03-27 to 2012-07-26	85	-28
2012-07-27 to 2014-03-06	403	150	2014-03-07 to 2014-12-16	198	-28
2014-12-17 to 2015-08-10	162	32	2015-08-11 to 2015-09-29	35	-21
2015-09-30 to 2015-12-02	45	19	2015-12-03 to 2016-02-08	45	-20
2016-02-09 to 2018-06-20	596	201	2018-06-21 to 2018-12-24	129	-37
2018-12-26 to 2019-05-03	89	39	2019-05-06 to 2019-09-24	99	-19
2019-09-25 to 2020-02-19	101	30	2020-02-20 to 2020-03-18	20	-39
2020-03-19 to NA	179	66		NA	NA

Printing and Publishing

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1926-09-16	63	136	1926-09-17 to 1926-10-20	28	-19
1926-10-21 to 1926-11-09	16	16	1926-11-10 to 1927-10-29	293	-14
1927-10-31 to 1929-10-14	580	68	1929-10-15 to 1929-11-13	22	-23
1929-11-14 to 1930-04-28	131	26	1930-04-29 to 1931-12-29	500	-78
1931-12-30 to 1932-01-15	14	22	1932-01-16 to 1932-06-03	116	-54
1932-06-04 to 1932-06-07	3	16	1932-06-08 to 1932-06-29	19	-36
1932-06-30 to 1932-09-07	57	152	1932-09-08 to 1932-12-28	92	-52
1932-12-29 to 1933-01-11	10	27	1933-01-12 to 1933-03-03	42	-36
1933-03-15 to 1933-06-12	75	168	1933-06-13 to 1933-07-21	33	-29
1933-07-22 to 1933-08-25	26	30	1933-08-28 to 1934-01-09	109	-36
1934-01-10 to 1934-04-21	85	71	1934-04-23 to 1934-09-18	125	-38
1934-09-19 to 1934-12-07	65	34	1934-12-08 to 1935-03-15	80	-23
1935-03-16 to 1936-04-13	325	55	1936-04-14 to 1936-07-07	71	-17
1936-07-08 to 1937-02-13	181	29	1937-02-15 to 1937-10-18	203	-70
1937-10-19 to 1937-10-21	3	28	1937-10-22 to 1937-12-29	55	-28
1937-12-30 to 1938-01-17	15	33	1938-01-18 to 1938-03-31	61	-37
1938-04-01 to 1938-08-10	110	70	1938-08-11 to 1938-09-14	29	-27
1938-09-15 to 1938-10-25	34	19	1938-10-26 to 1939-04-10	135	-34
1939-04-11 to 1939-08-02	96	24	1939-08-03 to 1939-09-01	26	-21
1939-09-02 to 1939-09-28	22	43	1939-09-29 to 1940-05-22	194	-47

Printing and Publishing

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1940-05-23 to 1940-11-14	145	32	1940-11-15 to 1941-12-18	329	-39
1941-12-19 to 1943-08-10	495	374	1943-08-11 to 1943-11-08	74	-22
1943-11-09 to 1946-04-29	724	377	1946-04-30 to 1946-09-19	103	-47
1946-09-20 to 1946-10-15	19	14	1946-10-16 to 1947-05-17	176	-34
1947-05-19 to 1947-10-18	110	42	1947-10-20 to 1948-02-11	93	-29
1948-02-13 to 1948-07-14	120	41	1948-07-15 to 1949-02-24	173	-42
1949-02-25 to 1951-02-03	548	83	1951-02-05 to 1952-02-20	296	-25
1952-02-21 to 1957-07-16	1371	339	1957-07-17 to 1957-11-14	85	-26
1957-11-15 to 1961-03-23	845	230	1961-03-24 to 1962-06-26	316	-47
1962-06-27 to 1968-06-13	1500	349	1968-06-14 to 1969-07-29	256	-32
1969-07-30 to 1969-11-07	72	20	1969-11-10 to 1970-07-07	166	-50
1970-07-08 to 1972-04-19	453	102	1972-04-20 to 1973-07-06	304	-40
1973-07-09 to 1973-10-15	70	21	1973-10-16 to 1974-12-23	301	-52
1974-12-24 to 1980-01-28	1287	306	1980-01-29 to 1980-03-27	42	-21
1980-03-28 to 1983-06-22	818	258	1983-06-23 to 1984-02-23	170	-22
1984-02-24 to 1987-08-14	878	217	1987-08-17 to 1987-12-04	78	-34
1987-12-07 to 1989-08-24	435	67	1989-08-25 to 1990-10-29	298	-39
1990-10-30 to 1998-07-17	1950	374	1998-07-20 to 1998-10-08	58	-23
1998-10-09 to 2000-03-27	369	87	2000-03-28 to 2001-09-20	371	-24
2001-09-21 to 2002-04-10	138	36	2002-04-11 to 2002-07-23	72	-22

Printing and Publishing

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2002-07-24 to 2004-04-05	429	41	2004-04-06 to 2006-07-21	578	-24
2006-07-24 to 2007-06-04	217	28	2007-06-05 to 2008-10-27	354	-73
2008-10-28 to 2008-11-04	6	18	2008-11-05 to 2008-11-20	12	-32
2008-11-21 to 2009-01-06	30	30	2009-01-07 to 2009-03-09	42	-37
2009-03-10 to 2010-04-15	278	146	2010-04-16 to 2010-08-31	96	-24
2010-09-01 to 2011-07-07	214	36	2011-07-08 to 2011-08-10	24	-21
2011-08-11 to 2015-03-20	907	132	2015-03-23 to 2016-02-11	226	-27
2016-02-12 to 2018-07-10	606	46	2018-07-11 to 2018-12-24	116	-30
2018-12-26 to 2020-02-06	281	23	2020-02-07 to 2020-03-23	31	-37
2020-03-24 to NA	176	50		NA	NA

Consumer Goods

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-01-31	772	131	1929-02-01 to 1929-05-27	93	-22
1929-05-28 to 1929-09-26	101	38	1929-09-27 to 1929-10-29	27	-48
1929-10-30 to 1929-10-31	2	9	1929-11-04 to 1929-11-13	7	-25
1929-11-14 to 1929-12-07	16	28	1929-12-09 to 1929-12-20	11	-18
1929-12-21 to 1930-02-01	35	16	1930-02-03 to 1930-12-16	259	-50
1930-12-17 to 1931-03-20	77	19	1931-03-21 to 1931-10-05	165	-45
1931-10-06 to 1931-11-07	27	15	1931-11-09 to 1932-06-30	194	-58
1932-07-01 to 1932-09-07	56	76	1932-09-08 to 1933-02-28	141	-41
1933-03-01 to 1933-07-18	108	146	1933-07-19 to 1933-10-19	72	-28
1933-10-20 to 1934-02-06	90	23	1934-02-07 to 1934-07-26	141	-17
1934-07-27 to 1937-01-22	749	117	1937-01-23 to 1938-03-31	355	-46
1938-04-01 to 1940-04-24	622	95	1940-04-25 to 1940-06-05	35	-27
1940-06-06 to 1941-09-17	388	21	1941-09-18 to 1942-02-17	124	-27
1942-02-18 to 1946-05-31	1270	176	1946-06-03 to 1947-05-19	273	-25
1947-05-20 to 1961-11-16	3804	1409	1961-11-17 to 1962-06-26	152	-36
1962-06-27 to 1966-06-22	1005	177	1966-06-23 to 1966-10-07	75	-23
1966-10-10 to 1969-10-27	739	65	1969-10-28 to 1970-05-26	146	-31
1970-05-27 to 1973-01-03	659	125	1973-01-04 to 1974-10-04	443	-59
1974-10-07 to 1976-07-12	446	68	1976-07-13 to 1978-03-06	416	-29
1978-03-07 to 1978-08-17	115	35	1978-08-18 to 1980-03-27	407	-21

Consumer Goods

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1980-03-28 to 1987-08-25	1873	443	1987-08-26 to 1987-10-19	38	-35
1987-10-20 to 1990-07-16	692	50	1990-07-17 to 1990-10-11	62	-22
1990-10-12 to 1998-07-16	1961	444	1998-07-17 to 1998-10-01	54	-23
1998-10-02 to 2000-01-11	322	39	2000-01-12 to 2000-03-10	41	-38
2000-03-13 to 2002-05-17	547	50	2002-05-20 to 2002-07-19	43	-20
2002-07-22 to 2007-12-10	1358	94	2007-12-11 to 2009-03-09	312	-43
2009-03-10 to 2020-02-06	2748	336	2020-02-07 to 2020-03-23	31	-26
2020-03-24 to NA	176	43		NA	NA

Apparel

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1928-05-07	553	90	1928-05-08 to 1929-11-13	449	-46
1929-11-14 to 1930-04-12	120	26	1930-04-14 to 1931-12-29	511	-48
1931-12-30 to 1932-03-21	68	30	1932-03-22 to 1932-07-08	90	-41
1932-07-09 to 1932-09-07	51	55	1932-09-08 to 1932-12-23	89	-22
1932-12-24 to 1933-07-17	159	154	1933-07-18 to 1933-10-21	75	-29
1933-10-23 to 1934-02-05	87	34	1934-02-06 to 1934-09-18	187	-21
1934-09-19 to 1937-03-13	745	60	1937-03-15 to 1937-10-19	181	-40
1937-10-20 to 1937-10-30	10	5	1937-11-01 to 1938-03-31	123	-22
1938-04-01 to 1939-09-30	454	61	1939-10-02 to 1940-05-23	193	-29
1940-05-24 to 1946-05-28	1790	285	1946-05-29 to 1947-05-19	275	-33
1947-05-20 to 1955-09-12	2247	160	1955-09-13 to 1957-12-24	575	-23
1957-12-26 to 1961-12-12	999	133	1961-12-13 to 1962-06-26	135	-30
1962-06-27 to 1966-04-11	954	109	1966-04-12 to 1966-10-10	127	-29
1966-10-11 to 1968-12-16	524	168	1968-12-17 to 1970-05-26	360	-57
1970-05-27 to 1972-03-06	451	98	1972-03-07 to 1973-12-24	454	-65
1973-12-26 to 1974-03-14	55	24	1974-03-15 to 1974-12-23	197	-46
1974-12-24 to 1975-07-15	140	118	1975-07-16 to 1975-08-21	27	-20
1975-08-22 to 1983-06-23	1981	744	1983-06-24 to 1984-07-31	279	-31
1984-08-01 to 1987-08-17	769	168	1987-08-18 to 1987-12-04	77	-48
1987-12-07 to 1989-10-09	466	105	1989-10-10 to 1990-01-30	78	-20

Apparel

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1990-01-31 to 1990-07-16	115	20	1990-07-17 to 1990-10-17	66	-39
1990-10-18 to 1993-02-04	582	151	1993-02-05 to 1993-09-21	158	-25
1993-09-22 to 1998-07-09	1212	109	1998-07-10 to 1998-10-08	64	-37
1998-10-09 to 1999-05-11	147	52	1999-05-12 to 2000-02-25	201	-44
2000-02-28 to 2001-05-22	312	64	2001-05-23 to 2001-09-21	81	-27
2001-09-24 to 2002-05-17	164	44	2002-05-20 to 2002-10-09	100	-28
2002-10-10 to 2007-07-12	1196	191	2007-07-13 to 2008-01-17	131	-32
2008-01-18 to 2008-05-15	82	22	2008-05-16 to 2008-10-27	114	-42
2008-10-28 to 2008-10-31	4	9	2008-11-03 to 2008-11-20	14	-30
2008-11-21 to 2008-12-08	11	27	2008-12-09 to 2009-03-09	61	-28
2009-03-10 to 2010-04-23	284	147	2010-04-26 to 2010-07-06	50	-20
2010-07-07 to 2011-07-21	264	59	2011-07-22 to 2011-08-19	21	-21
2011-08-22 to 2015-10-19	1047	138	2015-10-20 to 2017-02-07	328	-20
2017-02-08 to 2018-09-21	409	65	2018-09-24 to 2018-12-24	64	-23
2018-12-26 to 2020-01-17	268	44	2020-01-21 to 2020-03-23	44	-44
2020-03-24 to NA	176	83		NA	NA

Healthcare

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1969-07-01 to 1970-01-23	143	61	1970-01-26 to 1970-05-26	85	-75
1970-05-27 to 1970-06-03	6	33	1970-06-04 to 1970-08-17	52	-33
1970-08-18 to 1970-09-29	30	73	1970-09-30 to 1970-11-19	37	-27
1970-11-20 to 1971-03-17	80	89	1971-03-18 to 1971-11-24	176	-37
1971-11-26 to 1972-03-09	73	61	1972-03-10 to 1973-06-25	324	-77
1973-06-26 to 1973-10-11	76	55	1973-10-12 to 1973-12-05	38	-38
1973-12-06 to 1974-01-04	20	18	1974-01-07 to 1974-09-13	175	-54
1974-09-16 to 1974-11-08	40	34	1974-11-11 to 1974-12-17	26	-22
1974-12-18 to 1975-07-15	144	166	1975-07-16 to 1975-09-16	44	-27
1975-09-17 to 1978-09-13	756	310	1978-09-14 to 1978-10-31	34	-29
1978-11-01 to 1981-06-05	655	382	1981-06-08 to 1981-09-25	78	-32
1981-09-28 to 1981-11-02	26	19	1981-11-03 to 1982-03-17	93	-28
1982-03-18 to 1983-06-22	321	184	1983-06-23 to 1984-03-07	179	-34
1984-03-08 to 1985-07-17	344	60	1985-07-18 to 1985-10-07	56	-30
1985-10-08 to 1986-04-17	133	28	1986-04-18 to 1986-12-30	178	-23
1986-12-31 to 1987-08-11	155	36	1987-08-12 to 1987-12-04	81	-43
1987-12-07 to 1990-07-16	659	141	1990-07-17 to 1990-10-11	62	-21
1990-10-12 to 1992-01-14	317	81	1992-01-15 to 1992-10-05	184	-35
1992-10-06 to 1992-12-07	44	21	1992-12-08 to 1993-02-22	52	-23
1993-02-23 to 1998-04-20	1303	180	1998-04-21 to 1998-10-08	120	-48

Healthcare

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1998-10-09 to 1998-12-02	38	27	1998-12-03 to 1999-03-23	75	-30
1999-03-24 to 1999-05-11	34	33	1999-05-12 to 1999-10-15	110	-31
1999-10-18 to 2000-01-13	62	41	2000-01-14 to 2000-02-28	30	-27
2000-02-29 to 2000-12-28	212	128	2000-12-29 to 2001-03-22	57	-22
2001-03-23 to 2002-06-19	309	50	2002-06-20 to 2003-04-16	208	-46
2003-04-17 to 2007-07-06	1062	112	2007-07-09 to 2008-11-20	349	-50
2008-11-21 to 2009-02-13	57	22	2009-02-17 to 2009-03-09	15	-22
2009-03-10 to 2010-04-20	281	86	2010-04-21 to 2010-08-31	93	-21
2010-09-01 to 2011-05-10	174	44	2011-05-11 to 2011-10-03	101	-35
2011-10-04 to 2015-08-04	964	214	2015-08-05 to 2016-02-11	132	-32
2016-02-12 to 2018-08-31	644	56	2018-09-04 to 2018-12-24	78	-22
2018-12-26 to 2020-02-19	289	43	2020-02-20 to 2020-03-18	20	-40
2020-03-19 to NA	179	72		NA	NA

Medical Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-03-19	808	180	1929-03-20 to 1929-11-13	194	-43
1929-11-14 to 1930-04-01	110	39	1930-04-02 to 1930-06-25	69	-28
1930-06-26 to 1930-08-14	41	21	1930-08-15 to 1930-11-11	72	-16
1930-11-12 to 1931-03-19	105	19	1931-03-20 to 1931-03-26	6	-55
1931-03-27 to 1931-03-27	1	0	1931-03-28 to 1931-06-02	55	-27
1931-06-03 to 1931-08-20	67	16	1931-08-21 to 1931-10-05	37	-41
1931-10-06 to 1931-11-07	27	32	1931-11-09 to 1931-12-12	29	-27
1931-12-14 to 1932-01-14	25	23	1932-01-15 to 1932-02-27	36	-20
1932-02-29 to 1932-03-07	7	19	1932-03-08 to 1932-05-31	71	-51
1932-06-01 to 1932-06-16	14	40	1932-06-17 to 1932-07-08	17	-21
1932-07-09 to 1932-09-06	50	74	1932-09-07 to 1933-03-03	145	-46
1933-03-15 to 1933-07-17	104	57	1933-07-18 to 1933-12-27	129	-47
1933-12-28 to 1934-02-05	33	44	1934-02-06 to 1934-08-07	152	-22
1934-08-08 to 1936-02-06	451	51	1936-02-07 to 1936-07-29	144	-30
1936-07-30 to 1937-03-09	181	37	1937-03-10 to 1937-06-03	71	-15
1937-06-04 to 1937-07-12	31	19	1937-07-13 to 1937-10-19	83	-33
1937-10-20 to 1937-10-28	8	6	1937-10-29 to 1938-04-01	126	-39
1938-04-02 to 1938-07-13	85	51	1938-07-14 to 1938-09-24	62	-19
1938-09-26 to 1939-03-10	135	33	1939-03-11 to 1940-05-22	363	-25
1940-05-23 to 1941-09-15	397	50	1941-09-16 to 1941-12-29	85	-20

Medical Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1941-12-30 to 1946-05-31	1311	566	1946-06-03 to 1946-10-09	92	-32
1946-10-10 to 1947-04-02	142	24	1947-04-03 to 1947-05-19	39	-23
1947-05-20 to 1947-07-28	49	25	1947-07-29 to 1948-03-02	168	-30
1948-03-03 to 1951-09-04	988	267	1951-09-05 to 1953-02-09	390	-32
1953-02-10 to 1957-07-11	1112	110	1957-07-12 to 1957-10-22	72	-19
1957-10-23 to 1961-03-17	857	274	1961-03-20 to 1962-10-23	403	-41
1962-10-24 to 1966-06-21	921	193	1966-06-22 to 1966-10-07	76	-23
1966-10-10 to 1970-01-14	793	216	1970-01-15 to 1970-05-26	92	-41
1970-05-27 to 1972-08-11	562	134	1972-08-14 to 1974-09-30	536	-51
1974-10-01 to 1976-09-27	504	46	1976-09-28 to 1977-04-26	146	-25
1977-04-27 to 1978-09-11	347	49	1978-09-12 to 1979-03-02	120	-21
1979-03-05 to 1981-06-01	567	91	1981-06-02 to 1981-09-08	69	-23
1981-09-09 to 1983-06-24	455	99	1983-06-27 to 1984-07-24	273	-44
1984-07-25 to 1987-08-21	778	199	1987-08-24 to 1987-10-26	45	-34
1987-10-27 to 1992-01-14	1066	254	1992-01-15 to 1992-10-06	185	-25
1992-10-07 to 1992-12-08	44	20	1992-12-09 to 1994-04-20	345	-31
1994-04-21 to 1998-07-16	1070	216	1998-07-17 to 1998-10-08	59	-21
1998-10-09 to 2001-12-28	809	81	2001-12-31 to 2002-07-23	141	-31
2002-07-24 to 2008-08-22	1533	127	2008-08-25 to 2008-11-20	63	-44
2008-11-21 to 2009-02-06	52	17	2009-02-09 to 2009-03-09	20	-22

Medical Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2009-03-10 to 2010-04-15	278	69	2010-04-16 to 2010-08-31	96	-19
2010-09-01 to 2011-05-19	181	37	2011-05-20 to 2011-10-03	94	-23
2011-10-04 to 2018-10-01	1760	321	2018-10-02 to 2018-12-24	58	-20
2018-12-26 to 2020-01-22	270	38	2020-01-23 to 2020-03-23	42	-37
2020-03-24 to NA	176	53		NA	NA

Pharmaceutical Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-02-04	775	151	1929-02-05 to 1929-10-29	218	-38
1929-10-30 to 1929-11-04	3	4	1929-11-06 to 1929-11-13	6	-13
1929-11-14 to 1930-09-10	241	28	1930-09-11 to 1930-12-16	80	-27
1930-12-17 to 1931-03-21	78	28	1931-03-23 to 1931-06-02	60	-19
1931-06-03 to 1931-08-15	63	14	1931-08-17 to 1931-10-05	41	-41
1931-10-06 to 1931-11-09	28	26	1931-11-10 to 1932-05-31	167	-57
1932-06-01 to 1932-09-07	82	98	1932-09-08 to 1932-10-25	40	-36
1932-10-26 to 1933-06-29	194	93	1933-06-30 to 1933-12-26	142	-33
1933-12-27 to 1937-01-29	931	91	1937-01-30 to 1938-03-31	349	-29
1938-04-01 to 1940-04-09	609	70	1940-04-10 to 1942-04-25	616	-42
1942-04-27 to 1946-05-10	1198	306	1946-05-11 to 1948-02-11	491	-38
1948-02-13 to 1951-08-02	981	138	1951-08-03 to 1953-06-10	496	-26
1953-06-11 to 1960-06-14	1766	681	1960-06-15 to 1960-10-25	93	-20
1960-10-26 to 1961-11-14	264	46	1961-11-15 to 1962-10-23	237	-40
1962-10-24 to 1966-02-10	831	133	1966-02-11 to 1966-10-07	166	-22
1966-10-10 to 1967-09-14	235	52	1967-09-15 to 1968-03-25	131	-20
1968-03-26 to 1970-01-22	433	50	1970-01-23 to 1970-05-26	86	-28
1970-05-27 to 1973-07-25	799	115	1973-07-26 to 1974-10-03	302	-49
1974-10-04 to 1975-06-02	166	60	1975-06-03 to 1975-09-16	74	-22
1975-09-17 to 1976-09-21	257	21	1976-09-22 to 1977-05-31	174	-25

Pharmaceutical Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1977-06-01 to 1987-08-17	2581	764	1987-08-18 to 1987-10-26	49	-33
1987-10-27 to 1992-01-09	1063	233	1992-01-10 to 1993-08-12	403	-36
1993-08-13 to 2000-12-28	1864	590	2000-12-29 to 2001-03-21	56	-25
2001-03-22 to 2001-06-05	52	22	2001-06-06 to 2002-07-23	281	-42
2002-07-24 to 2007-05-07	1205	67	2007-05-08 to 2009-03-05	461	-32
2009-03-06 to 2015-07-20	1604	316	2015-07-21 to 2016-02-11	143	-22
2016-02-12 to 2020-02-11	1006	58	2020-02-12 to 2020-03-23	28	-23
2020-03-24 to NA	176	34		NA	NA

Chemicals

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-09-09	951	417	1929-09-10 to 1929-10-29	42	-43
1929-10-30 to 1929-10-31	2	8	1929-11-04 to 1929-11-13	7	-28
1929-11-14 to 1930-04-12	120	53	1930-04-14 to 1930-07-08	68	-30
1930-07-09 to 1930-09-09	52	20	1930-09-10 to 1930-12-16	81	-34
1930-12-17 to 1931-02-24	56	16	1931-02-25 to 1931-06-01	81	-32
1931-06-02 to 1931-06-27	23	28	1931-06-29 to 1931-10-05	82	-41
1931-10-06 to 1931-11-09	28	19	1931-11-10 to 1932-02-10	76	-29
1932-02-11 to 1932-03-05	19	16	1932-03-07 to 1932-07-08	103	-54
1932-07-09 to 1932-09-07	51	101	1932-09-08 to 1932-09-19	10	-17
1932-09-20 to 1932-09-28	8	16	1932-09-29 to 1932-11-03	30	-23
1932-11-04 to 1933-01-11	54	23	1933-01-12 to 1933-02-27	38	-21
1933-02-28 to 1933-07-18	109	151	1933-07-19 to 1933-07-21	3	-17
1933-07-22 to 1933-08-25	26	27	1933-08-28 to 1933-10-21	45	-20
1933-10-23 to 1937-03-10	1016	170	1937-03-11 to 1937-11-24	213	-41
1937-11-26 to 1938-02-23	73	17	1938-02-24 to 1938-03-31	31	-24
1938-04-01 to 1938-12-31	227	58	1939-01-03 to 1939-04-08	80	-20
1939-04-10 to 1940-04-08	301	40	1940-04-09 to 1940-06-10	53	-23
1940-06-11 to 1940-10-03	97	19	1940-10-04 to 1942-04-28	469	-29
1942-04-29 to 1946-06-10	1218	154	1946-06-11 to 1946-11-22	121	-24
1946-11-23 to 1956-04-06	2536	559	1956-04-09 to 1957-10-21	388	-24

Chemicals

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1957-10-22 to 1959-08-03	449	77	1959-08-04 to 1960-10-25	311	-27
1960-10-26 to 1961-11-15	265	32	1961-11-16 to 1962-06-26	153	-29
1962-06-27 to 1966-01-17	896	116	1966-01-18 to 1966-10-07	184	-32
1966-10-10 to 1968-12-03	518	44	1968-12-05 to 1970-05-26	367	-40
1970-05-27 to 1973-10-26	865	116	1973-10-29 to 1973-12-05	27	-25
1973-12-06 to 1974-05-09	107	22	1974-05-10 to 1974-10-04	103	-30
1974-10-07 to 1976-02-25	351	93	1976-02-26 to 1978-03-06	511	-32
1978-03-07 to 1980-02-13	492	63	1980-02-14 to 1980-03-27	30	-20
1980-03-28 to 1981-03-25	250	55	1981-03-26 to 1982-08-12	350	-33
1982-08-13 to 1987-10-05	1301	378	1987-10-06 to 1987-10-26	15	-37
1987-10-27 to 1989-09-01	469	71	1989-09-05 to 1990-10-17	284	-26
1990-10-18 to 1998-05-13	1913	367	1998-05-14 to 1998-10-14	107	-28
1998-10-15 to 1999-05-10	142	29	1999-05-11 to 2000-03-07	209	-30
2000-03-08 to 2000-04-12	26	29	2000-04-13 to 2000-10-20	133	-22
2000-10-23 to 2000-12-28	47	23	2000-12-29 to 2001-09-21	180	-27
2001-09-24 to 2002-03-19	122	31	2002-03-20 to 2002-10-09	142	-25
2002-10-10 to 2008-06-17	1431	187	2008-06-18 to 2008-10-27	92	-53
2008-10-28 to 2008-11-04	6	14	2008-11-05 to 2008-11-20	12	-28
2008-11-21 to 2009-01-06	30	19	2009-01-07 to 2009-03-05	40	-24
2009-03-06 to 2011-04-29	543	209	2011-05-02 to 2011-10-03	108	-30

Chemicals

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2011-10-04 to 2015-03-02	856	119	2015-03-03 to 2015-09-28	146	-25
2015-09-29 to 2018-09-20	751	88	2018-09-21 to 2018-12-24	65	-24
2018-12-26 to 2019-04-16	77	18	2019-04-17 to 2020-03-23	235	-45
2020-03-24 to NA	176	74		NA	NA

Rubber and Plastic Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1930-07-01 to 1930-07-16	12	15	1930-07-17 to 1930-11-08	95	-47
1930-11-10 to 1930-11-18	8	33	1930-11-19 to 1930-12-29	33	-25
1930-12-30 to 1931-03-18	65	75	1931-03-19 to 1931-06-02	63	-32
1931-06-03 to 1931-06-27	22	24	1931-06-29 to 1931-10-01	79	-57
1931-10-02 to 1931-11-11	33	23	1931-11-12 to 1931-12-17	30	-34
1931-12-18 to 1932-01-16	23	18	1932-01-18 to 1932-04-19	77	-51
1932-04-20 to 1932-04-28	8	29	1932-04-29 to 1932-06-02	29	-23
1932-06-03 to 1932-06-06	3	10	1932-06-07 to 1932-07-11	28	-10
1932-07-12 to 1932-08-31	44	160	1932-09-01 to 1932-09-19	15	-33
1932-09-20 to 1932-09-22	3	16	1932-09-23 to 1932-10-11	16	-30
1932-10-13 to 1932-10-19	6	24	1932-10-20 to 1932-11-04	14	-18
1932-11-05 to 1932-11-12	6	13	1932-11-14 to 1932-12-03	17	-27
1932-12-05 to 1932-12-12	7	15	1932-12-13 to 1932-12-27	12	-18
1932-12-28 to 1933-01-11	11	25	1933-01-12 to 1933-02-23	35	-31
1933-02-24 to 1933-07-03	100	251	1933-07-05 to 1933-07-22	16	-38
1933-07-24 to 1933-09-14	39	43	1933-09-15 to 1933-10-21	31	-30
1933-10-23 to 1934-02-05	87	58	1934-02-06 to 1934-07-26	142	-31
1934-07-27 to 1934-12-31	129	43	1935-01-02 to 1935-03-13	59	-20
1935-03-14 to 1936-11-18	509	146	1936-11-19 to 1937-05-18	148	-21
1937-05-19 to 1937-08-25	81	19	1937-08-26 to 1937-10-19	45	-40

Rubber and Plastic Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1937-10-20 to 1937-10-29	9	19	1937-10-30 to 1937-12-29	48	-30
1937-12-30 to 1938-01-17	15	28	1938-01-18 to 1938-06-03	114	-38
1938-06-04 to 1938-07-21	40	52	1938-07-22 to 1938-09-14	46	-26
1938-09-15 to 1938-10-15	26	28	1938-10-17 to 1939-01-27	84	-19
1939-01-28 to 1939-03-10	34	18	1939-03-11 to 1939-04-14	29	-23
1939-04-15 to 1940-04-04	293	49	1940-04-05 to 1940-05-22	41	-31
1940-05-23 to 1941-07-25	354	48	1941-07-26 to 1941-12-30	129	-28
1941-12-31 to 1946-02-06	1218	269	1946-02-07 to 1947-05-19	365	-36
1947-05-20 to 1948-06-17	304	24	1948-06-18 to 1949-06-14	280	-29
1949-06-15 to 1957-07-10	2122	522	1957-07-11 to 1957-10-22	73	-19
1957-10-23 to 1959-07-28	444	58	1959-07-29 to 1960-10-25	315	-23
1960-10-26 to 1961-12-04	277	59	1961-12-05 to 1962-06-22	139	-34
1962-06-25 to 1966-04-20	963	211	1966-04-21 to 1966-10-10	120	-37
1966-10-11 to 1968-07-11	434	188	1968-07-12 to 1970-05-26	450	-56
1970-05-27 to 1972-05-22	505	79	1972-05-23 to 1973-12-13	393	-44
1973-12-14 to 1974-03-14	62	19	1974-03-15 to 1974-12-09	187	-38
1974-12-10 to 1978-09-11	948	219	1978-09-12 to 1978-11-14	46	-22
1978-11-15 to 1980-02-04	308	47	1980-02-05 to 1980-03-27	37	-24
1980-03-28 to 1981-06-15	306	49	1981-06-16 to 1982-08-10	292	-28
1982-08-11 to 1983-07-25	242	126	1983-07-26 to 1984-07-30	257	-20

Rubber and Plastic Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1984-07-31 to 1986-05-29	462	98	1986-05-30 to 1986-09-29	85	-20
1986-09-30 to 1987-08-21	227	52	1987-08-24 to 1987-10-28	47	-38
1987-10-29 to 1990-07-17	686	83	1990-07-18 to 1990-11-01	76	-27
1990-11-02 to 1998-05-14	1903	435	1998-05-15 to 1998-10-08	102	-32
1998-10-09 to 1999-07-12	189	68	1999-07-13 to 2000-10-26	329	-42
2000-10-27 to 2001-06-07	153	42	2001-06-08 to 2001-09-21	70	-20
2001-09-24 to 2002-05-15	162	57	2002-05-16 to 2003-03-10	205	-34
2003-03-11 to 2007-04-26	1040	99	2007-04-27 to 2008-07-14	306	-32
2008-07-15 to 2008-09-03	36	20	2008-09-04 to 2008-11-20	56	-43
2008-11-21 to 2008-12-16	17	22	2008-12-17 to 2009-03-09	55	-43
2009-03-10 to 2011-07-07	588	263	2011-07-08 to 2011-10-03	61	-25
2011-10-04 to 2018-09-20	1753	227	2018-09-21 to 2018-12-24	65	-21
2018-12-26 to 2020-01-17	268	26	2020-01-21 to 2020-03-23	44	-32
2020-03-24 to NA	176	91		NA	NA

Textiles

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1928-03-21	517	67	1928-03-22 to 1928-06-26	75	-25
1928-06-27 to 1928-11-28	128	23	1928-11-30 to 1929-11-13	282	-58
1929-11-14 to 1930-02-18	75	26	1930-02-19 to 1930-12-30	257	-51
1930-12-31 to 1931-03-10	57	36	1931-03-11 to 1932-06-02	371	-66
1932-06-03 to 1932-09-08	81	110	1932-09-09 to 1933-03-02	142	-47
1933-03-03 to 1933-07-18	106	202	1933-07-19 to 1933-07-21	3	-25
1933-07-22 to 1933-08-25	26	20	1933-08-28 to 1933-10-21	45	-26
1933-10-23 to 1934-04-20	148	50	1934-04-21 to 1934-07-27	82	-37
1934-07-28 to 1934-12-06	108	24	1934-12-07 to 1935-04-05	99	-22
1935-04-06 to 1937-02-13	559	155	1937-02-15 to 1937-12-29	261	-58
1937-12-30 to 1938-01-15	14	24	1938-01-17 to 1938-03-31	62	-29
1938-04-01 to 1938-07-25	96	63	1938-07-26 to 1938-09-14	43	-19
1938-09-15 to 1938-11-12	48	22	1938-11-14 to 1939-04-08	120	-28
1939-04-10 to 1939-10-25	167	45	1939-10-26 to 1940-06-10	187	-36
1940-06-11 to 1941-09-18	385	44	1941-09-19 to 1942-04-28	181	-20
1942-04-29 to 1946-05-28	1210	573	1946-05-29 to 1946-11-22	129	-35
1946-11-23 to 1947-02-17	70	23	1947-02-18 to 1947-05-19	76	-26
1947-05-20 to 1948-05-21	285	61	1948-05-22 to 1949-06-13	298	-28
1949-06-14 to 1951-02-23	475	102	1951-02-24 to 1953-12-29	759	-32
1953-12-30 to 1955-09-23	439	65	1955-09-26 to 1957-12-30	569	-32

Textiles

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1957-12-31 to 1959-07-28	398	139	1959-07-29 to 1960-10-25	315	-23
1960-10-26 to 1962-02-15	328	50	1962-02-16 to 1962-10-23	173	-24
1962-10-24 to 1966-02-09	830	258	1966-02-10 to 1966-12-07	208	-39
1966-12-08 to 1968-11-29	475	116	1968-12-02 to 1970-05-26	369	-47
1970-05-27 to 1971-03-08	198	65	1971-03-09 to 1971-11-24	183	-25
1971-11-26 to 1972-03-06	70	32	1972-03-07 to 1973-07-03	333	-35
1973-07-05 to 1973-10-12	71	20	1973-10-15 to 1973-12-24	50	-30
1973-12-26 to 1974-03-21	60	20	1974-03-22 to 1974-12-23	192	-37
1974-12-24 to 1978-09-12	939	168	1978-09-13 to 1978-10-31	35	-21
1978-11-01 to 1980-02-08	322	31	1980-02-11 to 1980-03-27	33	-20
1980-03-28 to 1983-12-01	931	246	1983-12-02 to 1984-07-31	167	-23
1984-08-01 to 1987-08-20	772	193	1987-08-21 to 1987-10-28	48	-41
1987-10-29 to 1989-09-08	471	146	1989-09-11 to 1990-11-08	296	-48
1990-11-09 to 1993-03-31	604	200	1993-04-01 to 1994-12-19	435	-25
1994-12-20 to 1998-05-04	851	57	1998-05-05 to 1998-10-08	110	-44
1998-10-09 to 1998-12-31	58	35	1999-01-04 to 1999-03-24	56	-21
1999-03-25 to 1999-05-13	35	18	1999-05-14 to 2000-03-14	211	-35
2000-03-15 to 2001-07-27	346	47	2001-07-30 to 2001-09-21	35	-32
2001-09-24 to 2002-05-20	165	83	2002-05-21 to 2002-10-09	99	-44
2002-10-10 to 2002-12-02	37	34	2002-12-03 to 2003-03-12	68	-19

Textiles

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2003-03-13 to 2007-07-06	1087	119	2007-07-09 to 2008-01-17	135	-29
2008-01-18 to 2008-05-15	82	27	2008-05-16 to 2008-07-31	53	-27
2008-08-01 to 2008-09-19	35	21	2008-09-22 to 2008-11-20	44	-61
2008-11-21 to 2009-01-06	30	46	2009-01-07 to 2009-03-09	42	-59
2009-03-10 to 2009-05-05	40	159	2009-05-06 to 2009-07-10	46	-26
2009-07-13 to 2010-04-23	198	108	2010-04-26 to 2010-07-06	50	-26
2010-07-07 to 2011-05-10	214	48	2011-05-11 to 2011-10-03	101	-36
2011-10-04 to 2015-07-30	961	346	2015-07-31 to 2016-02-08	132	-24
2016-02-09 to 2017-12-04	460	72	2017-12-05 to 2018-12-24	265	-55
2018-12-26 to 2019-07-25	146	28	2019-07-26 to 2019-08-15	15	-11
2019-08-16 to 2019-11-07	59	30	2019-11-08 to 2020-03-20	91	-61
2020-03-23 to 2020-03-26	4	26	2020-03-27 to 2020-04-03	6	-18
2020-04-06 to 2020-06-08	44	57	2020-06-09 to 2020-07-10	23	-33
2020-07-13 to NA	100	55		NA	NA

Construction Materials

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-09-09	951	105	1929-09-10 to 1929-11-13	51	-42
1929-11-14 to 1930-04-07	115	26	1930-04-08 to 1930-12-29	216	-54
1930-12-30 to 1931-03-19	66	29	1931-03-20 to 1931-06-02	62	-36
1931-06-03 to 1931-06-27	22	18	1931-06-29 to 1931-10-05	82	-47
1931-10-06 to 1931-11-09	28	17	1931-11-10 to 1931-12-17	32	-36
1931-12-18 to 1932-03-05	63	20	1932-03-07 to 1932-06-01	73	-44
1932-06-02 to 1932-09-09	83	128	1932-09-10 to 1932-10-10	26	-31
1932-10-11 to 1932-11-11	26	18	1932-11-12 to 1933-02-27	86	-32
1933-02-28 to 1933-07-18	109	209	1933-07-19 to 1933-07-21	3	-23
1933-07-22 to 1933-08-28	27	24	1933-08-29 to 1933-10-21	44	-24
1933-10-23 to 1934-02-06	88	38	1934-02-07 to 1934-07-26	141	-32
1934-07-27 to 1937-02-04	760	218	1937-02-05 to 1937-11-24	240	-51
1937-11-26 to 1937-12-08	11	13	1937-12-09 to 1938-03-31	93	-31
1938-04-01 to 1938-11-09	185	88	1938-11-10 to 1939-04-08	122	-36
1939-04-10 to 1939-10-25	167	27	1939-10-26 to 1940-06-10	187	-39
1940-06-11 to 1940-11-14	130	36	1940-11-15 to 1942-04-25	434	-26
1942-04-27 to 1946-05-31	1214	294	1946-06-03 to 1946-11-22	127	-28
1946-11-23 to 1947-02-08	64	18	1947-02-10 to 1947-05-19	82	-21
1947-05-20 to 1956-08-02	2472	469	1956-08-03 to 1957-10-21	306	-27
1957-10-22 to 1961-12-18	1047	117	1961-12-19 to 1962-10-23	214	-33

Construction Materials

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1962-10-24 to 1966-02-09	830	78	1966-02-10 to 1966-10-07	167	-27
1966-10-10 to 1968-12-13	524	134	1968-12-16 to 1970-05-26	361	-41
1970-05-27 to 1972-04-18	481	57	1972-04-19 to 1973-06-25	297	-31
1973-06-26 to 1973-10-12	77	29	1973-10-15 to 1973-12-17	45	-25
1973-12-18 to 1974-03-13	59	20	1974-03-14 to 1974-12-23	198	-42
1974-12-24 to 1978-09-11	938	198	1978-09-12 to 1978-11-14	46	-22
1978-11-15 to 1980-02-13	315	52	1980-02-14 to 1980-03-27	30	-23
1980-03-28 to 1981-06-15	306	61	1981-06-16 to 1982-08-10	292	-33
1982-08-11 to 1983-06-17	217	101	1983-06-20 to 1984-07-25	279	-21
1984-07-26 to 1987-08-25	779	183	1987-08-26 to 1987-10-26	43	-37
1987-10-27 to 1989-10-06	493	87	1989-10-09 to 1990-10-17	260	-30
1990-10-18 to 1998-04-02	1885	467	1998-04-03 to 1998-10-09	132	-37
1998-10-12 to 1999-03-29	116	38	1999-03-30 to 2000-03-14	243	-37
2000-03-15 to 2000-04-12	21	19	2000-04-13 to 2000-10-18	131	-23
2000-10-19 to 2001-09-05	221	20	2001-09-06 to 2001-09-21	8	-19
2001-09-24 to 2002-05-03	154	41	2002-05-06 to 2002-10-09	110	-27
2002-10-10 to 2006-05-05	899	156	2006-05-08 to 2006-08-14	69	-22
2006-08-15 to 2007-07-19	233	28	2007-07-20 to 2008-03-10	161	-27
2008-03-11 to 2008-05-19	49	18	2008-05-20 to 2008-11-20	130	-59
2008-11-21 to 2009-01-06	30	37	2009-01-07 to 2009-03-09	42	-45

Construction Materials

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2009-03-10 to 2010-04-23	284	166	2010-04-26 to 2010-07-06	50	-25
2010-07-07 to 2011-04-05	190	49	2011-04-06 to 2011-10-03	125	-34
2011-10-04 to 2018-01-26	1589	275	2018-01-29 to 2018-12-24	229	-34
2018-12-26 to 2020-02-20	290	54	2020-02-21 to 2020-03-23	22	-47
2020-03-24 to NA	176	83		NA	NA

Construction

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1926-09-03	54	3	1926-09-07 to 1926-12-18	86	-27
1926-12-20 to 1927-04-01	85	18	1927-04-02 to 1927-10-15	163	-34
1927-10-17 to 1930-06-04	775	132	1930-06-05 to 1930-12-29	170	-49
1930-12-30 to 1931-03-24	70	29	1931-03-25 to 1931-06-02	58	-41
1931-06-03 to 1931-06-27	22	23	1931-06-29 to 1931-10-05	82	-54
1931-10-06 to 1931-11-09	28	18	1931-11-10 to 1932-01-05	45	-38
1932-01-06 to 1932-03-09	53	28	1932-03-10 to 1932-07-08	100	-55
1932-07-09 to 1932-09-07	51	148	1932-09-08 to 1932-09-14	6	-24
1932-09-15 to 1932-09-21	6	17	1932-09-22 to 1932-11-03	36	-33
1932-11-04 to 1932-11-11	6	13	1932-11-12 to 1932-12-27	37	-29
1932-12-28 to 1933-01-12	12	22	1933-01-13 to 1933-02-25	36	-37
1933-02-27 to 1933-03-15	6	33	1933-03-16 to 1933-04-01	15	-23
1933-04-03 to 1933-07-13	85	178	1933-07-14 to 1933-07-21	7	-36
1933-07-22 to 1933-07-26	4	23	1933-07-27 to 1933-10-21	67	-43
1933-10-23 to 1933-12-11	41	9	1933-12-12 to 1933-12-26	12	-21
1933-12-27 to 1934-02-06	35	75	1934-02-07 to 1934-05-12	79	-38
1934-05-14 to 1934-06-18	30	21	1934-06-19 to 1934-07-26	32	-42
1934-07-27 to 1934-08-25	26	32	1934-08-27 to 1934-09-17	18	-22
1934-09-18 to 1934-09-25	7	20	1934-09-26 to 1935-03-14	138	-44
1935-03-15 to 1935-08-21	134	153	1935-08-22 to 1935-10-02	35	-32

Construction

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1935-10-03 to 1936-04-08	154	163	1936-04-09 to 1936-04-29	17	-22
1936-04-30 to 1937-01-08	208	91	1937-01-09 to 1937-06-14	129	-46
1937-06-15 to 1937-07-24	33	40	1937-07-26 to 1937-10-19	72	-65
1937-10-20 to 1937-11-13	20	44	1937-11-15 to 1937-12-27	35	-22
1937-12-28 to 1938-01-14	15	31	1938-01-15 to 1938-03-29	61	-46
1938-03-30 to 1938-05-09	34	63	1938-05-10 to 1938-05-26	15	-21
1938-05-27 to 1938-07-23	48	58	1938-07-25 to 1938-09-17	47	-33
1938-09-19 to 1938-11-09	43	101	1938-11-10 to 1938-11-29	15	-21
1938-11-30 to 1939-01-04	29	22	1939-01-05 to 1939-04-08	78	-48
1939-04-10 to 1939-08-02	97	36	1939-08-03 to 1939-09-01	26	-27
1939-09-02 to 1939-10-26	45	48	1939-10-27 to 1940-05-21	170	-62
1940-05-22 to 1940-10-31	136	66	1940-11-01 to 1941-06-04	176	-36
1941-06-05 to 1941-07-31	48	27	1941-08-01 to 1941-12-23	119	-42
1941-12-24 to 1942-01-05	9	26	1942-01-06 to 1942-04-17	85	-23
1942-04-18 to 1943-05-10	320	203	1943-05-11 to 1943-11-08	151	-21
1943-11-09 to 1946-01-28	650	286	1946-01-29 to 1946-10-10	193	-37
1946-10-11 to 1947-02-08	98	18	1947-02-10 to 1947-05-17	81	-33
1947-05-19 to 1948-11-01	404	80	1948-11-03 to 1949-02-25	93	-16
1949-02-26 to 1950-04-27	333	89	1950-04-28 to 1950-07-13	58	-17
1950-07-14 to 1957-05-08	1776	238	1957-05-09 to 1957-10-21	115	-26

Construction

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1957-10-22 to 1959-02-24	337	89	1959-02-25 to 1960-10-25	423	-36
1960-10-26 to 1962-02-19	330	74	1962-02-20 to 1962-10-23	171	-39
1962-10-24 to 1966-01-27	821	161	1966-01-28 to 1966-10-06	175	-37
1966-10-07 to 1968-12-02	518	240	1968-12-03 to 1969-07-29	159	-33
1969-07-30 to 1969-10-21	59	22	1969-10-22 to 1970-05-26	150	-54
1970-05-27 to 1970-06-03	6	13	1970-06-04 to 1970-07-07	23	-21
1970-07-08 to 1971-04-16	197	79	1971-04-19 to 1971-11-24	155	-24
1971-11-26 to 1972-04-12	96	35	1972-04-13 to 1973-06-25	301	-40
1973-06-26 to 1973-10-26	87	39	1973-10-29 to 1974-09-13	222	-49
1974-09-16 to 1975-06-30	200	83	1975-07-01 to 1975-12-15	117	-28
1975-12-16 to 1978-09-13	693	97	1978-09-14 to 1978-11-14	44	-25
1978-11-15 to 1980-02-08	312	116	1980-02-11 to 1980-03-27	33	-24
1980-03-28 to 1980-11-26	169	115	1980-11-28 to 1982-08-09	428	-64
1982-08-10 to 1983-06-23	222	142	1983-06-24 to 1984-07-30	278	-33
1984-07-31 to 1987-03-26	671	98	1987-03-27 to 1987-12-04	176	-45
1987-12-07 to 1990-07-16	659	128	1990-07-17 to 1990-10-31	76	-27
1990-11-01 to 1991-03-05	85	42	1991-03-06 to 1991-12-11	196	-26
1991-12-12 to 1992-02-12	43	28	1992-02-13 to 1992-07-08	101	-20
1992-07-09 to 1994-02-02	399	36	1994-02-03 to 1994-12-09	215	-25
1994-12-12 to 1998-07-21	911	157	1998-07-22 to 1998-08-31	29	-30

Construction

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1998-09-01 to 1998-09-23	16	16	1998-09-24 to 1998-10-08	11	-18
1998-10-09 to 1999-06-09	167	100	1999-06-10 to 1999-10-26	97	-33
1999-10-27 to 2001-05-17	393	92	2001-05-18 to 2001-09-21	84	-36
2001-09-24 to 2002-05-02	153	74	2002-05-03 to 2002-10-09	111	-36
2002-10-10 to 2006-01-30	832	291	2006-01-31 to 2006-07-21	120	-30
2006-07-24 to 2007-06-04	217	26	2007-06-05 to 2007-11-26	122	-26
2007-11-27 to 2007-12-10	10	21	2007-12-11 to 2008-01-17	26	-19
2008-01-18 to 2008-05-16	83	33	2008-05-19 to 2008-10-27	113	-59
2008-10-28 to 2008-11-04	6	23	2008-11-05 to 2008-11-20	12	-33
2008-11-21 to 2009-01-06	30	69	2009-01-07 to 2009-03-03	38	-32
2009-03-04 to 2009-09-16	137	72	2009-09-17 to 2009-12-08	58	-21
2009-12-09 to 2010-04-29	97	30	2010-04-30 to 2010-07-02	45	-24
2010-07-06 to 2011-02-17	159	45	2011-02-18 to 2011-10-03	157	-40
2011-10-04 to 2014-03-04	606	133	2014-03-05 to 2016-02-11	490	-30
2016-02-12 to 2018-01-22	489	111	2018-01-23 to 2018-12-24	233	-38
2018-12-26 to 2020-02-20	290	62	2020-02-21 to 2020-03-23	22	-53
2020-03-24 to NA	176	100		NA	NA

Steel Works Etc.

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-09-03	946	211	1929-09-04 to 1929-11-13	56	-43
1929-11-14 to 1930-04-01	110	22	1930-04-02 to 1930-12-16	211	-48
1930-12-17 to 1931-02-24	56	21	1931-02-25 to 1931-06-02	82	-44
1931-06-03 to 1931-06-27	22	28	1931-06-29 to 1931-10-05	82	-46
1931-10-06 to 1931-11-09	28	19	1931-11-10 to 1932-01-05	45	-44
1932-01-06 to 1932-01-14	8	11	1932-01-15 to 1932-02-10	23	-20
1932-02-11 to 1932-02-19	7	14	1932-02-20 to 1932-05-31	84	-50
1932-06-01 to 1932-07-13	35	22	1932-07-14 to 1932-07-14	1	0
1932-07-15 to 1932-09-03	44	114	1932-09-06 to 1932-09-14	8	-27
1932-09-15 to 1932-09-21	6	11	1932-09-22 to 1932-10-10	16	-34
1932-10-11 to 1932-10-19	7	8	1932-10-20 to 1932-11-03	13	-25
1932-11-04 to 1932-11-11	6	15	1932-11-12 to 1932-12-28	38	-35
1932-12-29 to 1933-01-10	9	24	1933-01-11 to 1933-02-27	39	-23
1933-02-28 to 1933-07-18	109	240	1933-07-19 to 1933-10-19	72	-37
1933-10-20 to 1934-02-17	99	56	1934-02-19 to 1934-09-17	176	-35
1934-09-18 to 1935-01-07	90	23	1935-01-08 to 1935-03-14	55	-23
1935-03-15 to 1937-03-10	598	311	1937-03-11 to 1937-05-17	57	-23
1937-05-18 to 1937-08-14	73	21	1937-08-16 to 1937-11-22	81	-55
1937-11-23 to 1938-01-11	40	31	1938-01-12 to 1938-03-31	66	-36
1938-04-01 to 1938-04-16	13	24	1938-04-18 to 1938-05-26	34	-19

Steel Works Etc.

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1938-05-27 to 1938-11-12	140	84	1938-11-14 to 1939-04-08	120	-36
1939-04-10 to 1939-09-12	131	64	1939-09-13 to 1940-05-21	207	-40
1940-05-22 to 1940-11-09	143	54	1940-11-12 to 1941-04-21	132	-23
1941-04-22 to 1941-07-28	82	24	1941-07-29 to 1942-05-20	244	-23
1942-05-21 to 1946-05-31	1193	206	1946-06-03 to 1946-09-19	77	-27
1946-09-20 to 1948-10-23	592	46	1948-10-25 to 1949-06-13	187	-30
1949-06-14 to 1956-08-08	1893	771	1956-08-09 to 1957-12-18	342	-35
1957-12-19 to 1959-08-31	429	102	1959-09-01 to 1960-10-25	291	-30
1960-10-26 to 1961-05-19	142	33	1961-05-22 to 1962-10-19	357	-40
1962-10-22 to 1966-02-07	830	106	1966-02-08 to 1966-10-07	169	-27
1966-10-10 to 1969-02-04	558	68	1969-02-05 to 1970-07-07	356	-40
1970-07-08 to 1971-04-19	198	31	1971-04-20 to 1971-11-23	153	-31
1971-11-24 to 1974-02-26	568	64	1974-02-27 to 1974-10-03	153	-22
1974-10-04 to 1976-07-12	447	96	1976-07-13 to 1977-09-28	307	-30
1977-09-29 to 1980-02-13	601	79	1980-02-14 to 1980-03-27	30	-28
1980-03-28 to 1981-04-01	255	67	1981-04-02 to 1982-08-12	345	-46
1982-08-13 to 1984-01-12	359	94	1984-01-13 to 1984-07-31	139	-30
1984-08-01 to 1986-03-21	414	31	1986-03-24 to 1986-08-04	93	-24
1986-08-05 to 1987-10-05	296	91	1987-10-06 to 1987-10-26	15	-40
1987-10-27 to 1989-09-05	470	89	1989-09-06 to 1990-11-08	299	-31

Steel Works Etc.

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1990-11-09 to 1998-04-22	1882	234	1998-04-23 to 1998-08-31	91	-32
1998-09-01 to 2000-09-01	507	152	2000-09-05 to 2000-11-20	55	-36
2000-11-21 to 2000-12-11	14	18	2000-12-12 to 2001-01-02	14	-20
2001-01-03 to 2001-01-24	15	14	2001-01-25 to 2001-04-03	48	-33
2001-04-04 to 2001-05-21	33	28	2001-05-22 to 2001-09-21	82	-41
2001-09-24 to 2001-12-05	52	24	2001-12-06 to 2002-10-09	212	-50
2002-10-10 to 2005-03-04	604	190	2005-03-07 to 2005-05-13	49	-21
2005-05-16 to 2006-05-10	249	97	2006-05-11 to 2006-06-13	23	-21
2006-06-14 to 2007-07-13	272	79	2007-07-16 to 2007-08-16	24	-23
2007-08-17 to 2007-10-29	51	22	2007-10-30 to 2008-01-17	55	-22
2008-01-18 to 2008-05-19	84	41	2008-05-20 to 2008-10-10	101	-69
2008-10-13 to 2008-10-13	1	0	2008-10-14 to 2008-10-27	10	-24
2008-10-28 to 2008-11-04	6	17	2008-11-05 to 2008-11-20	12	-38
2008-11-21 to 2009-01-06	30	62	2009-01-07 to 2009-03-09	42	-41
2009-03-10 to 2009-06-11	66	79	2009-06-12 to 2009-07-08	18	-19
2009-07-09 to 2010-01-08	128	53	2010-01-11 to 2010-02-08	20	-22
2010-02-09 to 2010-04-06	39	23	2010-04-07 to 2010-08-26	100	-27
2010-08-27 to 2011-02-17	121	52	2011-02-18 to 2011-10-03	157	-45
2011-10-04 to 2012-02-03	85	33	2012-02-06 to 2012-06-11	88	-25
2012-06-12 to 2014-09-05	562	75	2014-09-08 to 2016-01-25	348	-51

Steel Works Etc.

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2016-01-26 to 2018-01-11	496	129	2018-01-12 to 2018-12-24	239	-36
2018-12-26 to 2019-02-25	41	23	2019-02-26 to 2019-08-27	128	-27
2019-08-28 to 2019-12-12	75	27	2019-12-13 to 2020-03-18	65	-54
2020-03-19 to NA	179	92		NA	NA

Fabricated Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1963-07-01 to 1966-01-18	643	78	1966-01-19 to 1966-10-14	188	-32
1966-10-17 to 1967-08-09	205	100	1967-08-10 to 1968-03-14	149	-20
1968-03-15 to 1968-06-14	62	23	1968-06-17 to 1969-07-29	255	-46
1969-07-30 to 1970-02-13	139	23	1970-02-16 to 1970-07-07	99	-45
1970-07-08 to 1971-04-26	203	126	1971-04-27 to 1971-11-24	149	-29
1971-11-26 to 1972-03-08	72	39	1972-03-09 to 1973-06-25	325	-37
1973-06-26 to 1973-11-08	96	39	1973-11-09 to 1974-09-30	224	-50
1974-10-01 to 1975-07-14	198	80	1975-07-15 to 1975-12-22	113	-27
1975-12-23 to 1978-08-24	675	130	1978-08-25 to 1978-11-16	59	-20
1978-11-17 to 1980-02-01	305	63	1980-02-04 to 1980-04-21	54	-25
1980-04-22 to 1981-08-17	334	98	1981-08-18 to 1981-09-28	29	-24
1981-09-29 to 1981-12-15	55	24	1981-12-16 to 1982-08-13	167	-47
1982-08-16 to 1983-07-26	240	75	1983-07-27 to 1985-10-14	561	-24
1985-10-15 to 1987-03-20	362	46	1987-03-23 to 1987-10-28	154	-38
1987-10-29 to 1990-07-16	685	134	1990-07-17 to 1990-10-16	65	-36
1990-10-17 to 1992-02-20	340	111	1992-02-21 to 1992-07-07	95	-27
1992-07-08 to 1998-04-20	1462	175	1998-04-21 to 1998-10-09	121	-45
1998-10-12 to 1998-11-06	20	26	1998-11-09 to 1999-04-06	101	-25
1999-04-07 to 1999-06-30	60	56	1999-07-01 to 2000-06-21	247	-34
2000-06-22 to 2000-09-01	51	31	2000-09-05 to 2000-12-21	77	-33

Fabricated Products

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2000-12-22 to 2001-01-19	18	29	2001-01-22 to 2001-09-27	170	-29
2001-09-28 to 2002-04-19	140	36	2002-04-22 to 2003-03-12	225	-43
2003-03-13 to 2004-12-29	454	124	2004-12-30 to 2005-10-27	210	-22
2005-10-28 to 2006-04-26	123	28	2006-04-27 to 2006-09-26	106	-22
2006-09-27 to 2007-07-19	203	45	2007-07-20 to 2008-01-18	127	-27
2008-01-22 to 2008-08-14	144	56	2008-08-15 to 2008-11-20	69	-60
2008-11-21 to 2009-01-06	30	28	2009-01-07 to 2009-03-09	42	-36
2009-03-10 to 2010-04-26	285	129	2010-04-27 to 2010-08-24	84	-19
2010-08-25 to 2011-07-08	220	69	2011-07-11 to 2011-10-03	60	-30
2011-10-04 to 2012-04-02	125	48	2012-04-03 to 2012-06-26	59	-21
2012-06-27 to 2013-10-18	330	101	2013-10-21 to 2015-01-30	322	-49
2015-02-02 to 2015-04-15	51	26	2015-04-16 to 2016-01-20	193	-58
2016-01-21 to 2018-09-17	670	211	2018-09-18 to 2018-12-24	68	-24
2018-12-26 to 2019-03-21	59	35	2019-03-22 to 2020-03-20	252	-64
2020-03-23 to 2020-04-29	27	55	2020-04-30 to 2020-05-13	10	-15
2020-05-14 to NA	140	134		NA	NA

Machinery

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-09-17	958	252	1929-09-18 to 1929-11-13	44	-49
1929-11-14 to 1930-04-17	124	54	1930-04-21 to 1930-12-16	197	-50
1930-12-17 to 1931-02-27	59	22	1931-02-28 to 1931-06-02	79	-42
1931-06-03 to 1931-06-27	22	21	1931-06-29 to 1931-10-05	82	-51
1931-10-06 to 1931-11-09	28	27	1931-11-10 to 1931-12-17	32	-37
1931-12-18 to 1932-01-15	22	12	1932-01-16 to 1932-07-08	144	-57
1932-07-09 to 1932-09-07	51	155	1932-09-08 to 1932-09-14	6	-27
1932-09-15 to 1932-09-24	9	18	1932-09-26 to 1932-11-03	33	-29
1932-11-04 to 1932-11-12	7	17	1932-11-14 to 1933-02-27	85	-31
1933-02-28 to 1933-07-17	108	208	1933-07-18 to 1933-07-21	4	-28
1933-07-22 to 1933-08-25	26	25	1933-08-28 to 1933-10-19	43	-31
1933-10-20 to 1934-02-05	89	54	1934-02-06 to 1934-07-26	142	-40
1934-07-27 to 1937-08-13	916	362	1937-08-14 to 1937-11-24	84	-51
1937-11-26 to 1938-01-11	38	23	1938-01-12 to 1938-03-31	66	-30
1938-04-01 to 1938-11-12	187	53	1938-11-14 to 1939-04-08	120	-32
1939-04-10 to 1939-09-27	144	45	1939-09-28 to 1940-05-23	196	-33
1940-05-24 to 1941-09-17	398	44	1941-09-18 to 1942-04-28	182	-23
1942-04-29 to 1946-05-31	1212	231	1946-06-03 to 1946-11-22	127	-34
1946-11-23 to 1948-06-11	446	41	1948-06-14 to 1949-06-13	283	-25
1949-06-14 to 1957-05-20	2088	444	1957-05-21 to 1957-12-23	150	-30

Machinery

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1957-12-24 to 1959-07-10	390	97	1959-07-13 to 1960-09-28	308	-24
1960-09-29 to 1962-02-13	345	41	1962-02-14 to 1962-10-23	175	-28
1962-10-24 to 1966-04-21	879	154	1966-04-22 to 1966-10-07	118	-27
1966-10-10 to 1968-12-12	523	82	1968-12-13 to 1970-05-26	362	-43
1970-05-27 to 1973-01-11	665	96	1973-01-12 to 1973-06-21	111	-24
1973-06-22 to 1973-10-12	79	36	1973-10-15 to 1974-10-01	244	-47
1974-10-02 to 1980-02-13	1357	230	1980-02-14 to 1980-03-27	30	-20
1980-03-28 to 1980-11-28	170	58	1980-12-01 to 1982-08-12	430	-44
1982-08-13 to 1984-01-18	363	77	1984-01-19 to 1984-07-24	130	-22
1984-07-25 to 1987-10-02	807	119	1987-10-05 to 1987-10-26	16	-41
1987-10-27 to 1990-06-04	658	102	1990-06-05 to 1990-10-31	105	-33
1990-11-01 to 1991-06-03	147	39	1991-06-04 to 1991-12-11	134	-22
1991-12-12 to 1997-10-13	1476	252	1997-10-14 to 1998-01-09	61	-22
1998-01-12 to 1998-04-22	70	24	1998-04-23 to 1998-10-08	118	-41
1998-10-09 to 2000-04-07	378	106	2000-04-10 to 2000-10-18	134	-27
2000-10-19 to 2001-01-30	70	21	2001-01-31 to 2001-04-03	44	-22
2001-04-04 to 2001-05-21	33	34	2001-05-22 to 2001-09-27	86	-35
2001-09-28 to 2002-04-16	137	50	2002-04-17 to 2002-10-09	123	-40
2002-10-10 to 2008-06-05	1423	256	2008-06-06 to 2008-10-27	100	-58
2008-10-28 to 2008-11-04	6	17	2008-11-05 to 2008-11-20	12	-29

Machinery

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2008-11-21 to 2009-01-06	30	37	2009-01-07 to 2009-03-02	37	-32
2009-03-03 to 2011-04-29	546	248	2011-05-02 to 2011-10-03	108	-34
2011-10-04 to 2012-02-23	98	45	2012-02-24 to 2012-06-25	85	-21
2012-06-26 to 2014-07-03	508	69	2014-07-07 to 2016-01-20	389	-33
2016-01-21 to 2018-01-22	505	136	2018-01-23 to 2018-12-24	233	-32
2018-12-26 to 2020-02-13	286	46	2020-02-14 to 2020-03-23	26	-41
2020-03-24 to NA	176	83		NA	NA

Electrical Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-08-30	945	416	1929-09-03 to 1929-10-29	48	-49
1929-10-30 to 1929-10-31	2	6	1929-11-04 to 1929-11-13	7	-29
1929-11-14 to 1930-04-17	124	78	1930-04-21 to 1930-12-27	206	-58
1930-12-29 to 1931-02-24	47	40	1931-02-25 to 1931-06-02	82	-35
1931-06-03 to 1931-06-27	22	23	1931-06-29 to 1931-10-05	82	-46
1931-10-06 to 1931-11-07	27	18	1931-11-09 to 1932-01-05	46	-41
1932-01-06 to 1932-01-15	9	13	1932-01-16 to 1932-02-09	21	-24
1932-02-10 to 1932-02-16	5	31	1932-02-17 to 1932-05-31	87	-60
1932-06-01 to 1932-06-16	14	29	1932-06-17 to 1932-06-27	9	-12
1932-06-28 to 1932-09-07	59	175	1932-09-08 to 1932-09-19	10	-26
1932-09-20 to 1932-09-24	5	17	1932-09-26 to 1932-11-03	33	-27
1932-11-04 to 1932-11-11	6	19	1932-11-12 to 1933-02-27	86	-40
1933-02-28 to 1933-07-08	101	172	1933-07-10 to 1933-07-31	18	-26
1933-08-01 to 1933-08-25	19	14	1933-08-28 to 1933-10-19	43	-36
1933-10-20 to 1934-02-05	89	48	1934-02-06 to 1934-07-26	142	-36
1934-07-27 to 1937-01-21	748	269	1937-01-22 to 1937-10-18	222	-45
1937-10-19 to 1938-01-11	68	17	1938-01-12 to 1938-03-31	66	-36
1938-04-01 to 1938-11-09	185	71	1938-11-10 to 1939-04-08	122	-31
1939-04-10 to 1939-10-25	167	30	1939-10-26 to 1940-06-10	187	-29
1940-06-11 to 1940-11-07	125	24	1940-11-08 to 1942-04-28	441	-32

Electrical Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1942-04-29 to 1946-02-02	1117	213	1946-02-04 to 1946-11-25	224	-37
1946-11-26 to 1947-02-11	64	19	1947-02-13 to 1947-05-17	79	-19
1947-05-19 to 1948-06-17	305	45	1948-06-18 to 1949-06-13	279	-22
1949-06-14 to 1957-07-15	2126	620	1957-07-16 to 1957-10-21	69	-22
1957-10-22 to 1960-06-13	666	108	1960-06-14 to 1960-10-25	94	-25
1960-10-26 to 1961-12-01	276	21	1961-12-04 to 1962-06-22	140	-32
1962-06-25 to 1966-04-25	966	170	1966-04-26 to 1966-10-07	116	-31
1966-10-10 to 1968-06-10	418	104	1968-06-11 to 1970-05-26	467	-36
1970-05-27 to 1973-01-05	661	106	1973-01-08 to 1973-05-23	95	-25
1973-05-24 to 1973-10-09	96	25	1973-10-10 to 1974-10-04	250	-59
1974-10-07 to 1975-07-15	195	84	1975-07-16 to 1975-09-16	44	-20
1975-09-17 to 1978-08-09	732	83	1978-08-10 to 1978-11-14	68	-19
1978-11-15 to 1981-06-11	649	101	1981-06-12 to 1981-09-25	74	-23
1981-09-28 to 1984-01-06	577	100	1984-01-09 to 1984-07-24	138	-23
1984-07-25 to 1987-10-01	806	126	1987-10-02 to 1987-12-04	45	-40
1987-12-07 to 1990-07-13	658	112	1990-07-16 to 1990-10-26	74	-30
1990-10-29 to 1998-07-17	1951	705	1998-07-20 to 1998-10-08	58	-25
1998-10-09 to 2000-07-17	446	148	2000-07-18 to 2000-12-21	111	-36
2000-12-22 to 2001-01-23	20	16	2001-01-24 to 2001-04-03	49	-30
2001-04-04 to 2001-05-21	33	27	2001-05-22 to 2001-09-21	82	-35

Electrical Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2001-09-24 to 2002-03-18	121	34	2002-03-19 to 2002-10-09	143	-31
2002-10-10 to 2007-12-10	1301	199	2007-12-11 to 2008-10-27	222	-51
2008-10-28 to 2008-11-04	6	12	2008-11-05 to 2008-11-20	12	-20
2008-11-21 to 2009-01-06	30	31	2009-01-07 to 2009-03-09	42	-34
2009-03-10 to 2011-02-18	493	166	2011-02-22 to 2011-10-03	156	-34
2011-10-04 to 2014-06-20	682	102	2014-06-23 to 2016-01-25	401	-30
2016-01-26 to 2018-09-20	670	72	2018-09-21 to 2018-12-24	65	-27
2018-12-26 to 2020-02-20	290	46	2020-02-21 to 2020-03-23	22	-43
2020-03-24 to NA	176	92		NA	NA

Automobiles

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-03-15	805	261	1929-03-16 to 1929-10-29	188	-55
1929-10-30 to 1929-10-31	2	1	1929-11-04 to 1929-11-13	7	-23
1929-11-14 to 1930-04-10	118	45	1930-04-11 to 1930-06-27	63	-32
1930-06-28 to 1930-07-29	25	20	1930-07-30 to 1930-11-10	85	-32
1930-11-11 to 1931-03-20	107	48	1931-03-21 to 1931-06-02	61	-36
1931-06-03 to 1931-06-27	22	18	1931-06-29 to 1931-10-05	82	-43
1931-10-06 to 1931-11-09	28	22	1931-11-10 to 1932-01-05	45	-30
1932-01-06 to 1932-01-14	8	11	1932-01-15 to 1932-06-30	140	-63
1932-07-01 to 1932-09-07	56	157	1932-09-08 to 1932-09-19	10	-21
1932-09-20 to 1932-09-24	5	19	1932-09-26 to 1932-10-10	13	-29
1932-10-11 to 1932-11-12	27	16	1932-11-14 to 1933-02-27	85	-33
1933-02-28 to 1933-03-16	6	37	1933-03-17 to 1933-03-31	13	-16
1933-04-01 to 1933-07-17	89	205	1933-07-18 to 1933-07-21	4	-28
1933-07-22 to 1933-08-28	27	39	1933-08-29 to 1933-10-19	42	-31
1933-10-20 to 1934-02-21	102	68	1934-02-23 to 1934-07-26	129	-40
1934-07-27 to 1935-01-05	133	37	1935-01-07 to 1935-03-14	56	-23
1935-03-15 to 1936-11-09	501	211	1936-11-10 to 1937-06-29	189	-28
1937-06-30 to 1937-08-14	38	21	1937-08-16 to 1937-10-18	53	-44
1937-10-19 to 1937-10-29	10	19	1937-10-30 to 1937-12-29	48	-31
1937-12-30 to 1938-01-15	14	28	1938-01-17 to 1938-03-31	62	-32

Automobiles

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1938-04-01 to 1938-04-16	13	27	1938-04-18 to 1938-05-27	35	-18
1938-05-28 to 1938-11-09	137	97	1938-11-10 to 1939-01-26	63	-21
1939-01-27 to 1939-03-10	35	18	1939-03-11 to 1939-04-08	24	-28
1939-04-10 to 1940-04-08	301	52	1940-04-09 to 1940-06-10	53	-30
1940-06-11 to 1940-11-12	128	37	1940-11-13 to 1941-12-18	331	-36
1941-12-19 to 1946-01-29	1220	288	1946-01-30 to 1946-11-22	226	-38
1946-11-23 to 1947-02-11	66	30	1947-02-13 to 1947-05-17	79	-19
1947-05-19 to 1957-07-15	2710	832	1957-07-16 to 1957-12-30	116	-26
1957-12-31 to 1960-01-06	509	90	1960-01-07 to 1960-10-25	204	-26
1960-10-26 to 1961-12-13	284	47	1961-12-14 to 1962-06-25	133	-21
1962-06-26 to 1965-10-27	842	152	1965-10-28 to 1966-12-01	276	-30
1966-12-02 to 1968-11-12	468	59	1968-11-13 to 1970-05-26	380	-34
1970-05-27 to 1972-04-12	477	68	1972-04-13 to 1973-12-05	415	-45
1973-12-06 to 1974-03-14	68	21	1974-03-15 to 1974-12-06	186	-40
1974-12-09 to 1979-09-24	1211	199	1979-09-25 to 1980-04-21	145	-31
1980-04-22 to 1981-06-15	290	58	1981-06-16 to 1982-02-22	174	-29
1982-02-23 to 1984-01-09	476	140	1984-01-10 to 1984-05-29	98	-22
1984-05-30 to 1987-08-25	819	186	1987-08-26 to 1987-10-26	43	-39
1987-10-27 to 1989-09-01	469	69	1989-09-05 to 1991-01-14	344	-39
1991-01-15 to 1991-06-21	111	44	1991-06-24 to 1991-12-19	126	-22

Automobiles

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1991-12-20 to 1992-06-04	115	63	1992-06-05 to 1992-10-09	89	-22
1992-10-12 to 1994-02-08	337	96	1994-02-09 to 1994-12-12	212	-28
1994-12-13 to 1998-07-08	901	157	1998-07-09 to 1998-10-08	65	-29
1998-10-09 to 1999-05-03	141	51	1999-05-04 to 2000-03-07	214	-24
2000-03-08 to 2000-04-27	36	22	2000-04-28 to 2000-12-20	165	-34
2000-12-21 to 2001-07-17	142	31	2001-07-18 to 2001-09-21	43	-36
2001-09-24 to 2002-05-23	168	42	2002-05-24 to 2002-10-09	96	-47
2002-10-10 to 2002-12-02	37	25	2002-12-03 to 2003-03-11	67	-23
2003-03-12 to 2004-01-22	219	106	2004-01-23 to 2005-04-28	319	-27
2005-04-29 to 2005-07-28	63	23	2005-07-29 to 2005-11-16	78	-21
2005-11-17 to 2007-07-13	414	56	2007-07-16 to 2008-03-17	170	-35
2008-03-18 to 2008-05-15	42	16	2008-05-16 to 2008-10-27	114	-66
2008-10-28 to 2008-11-04	6	13	2008-11-05 to 2008-11-20	12	-32
2008-11-21 to 2009-01-06	30	43	2009-01-07 to 2009-03-06	41	-40
2009-03-09 to 2010-04-26	286	273	2010-04-27 to 2010-07-06	49	-21
2010-07-07 to 2011-01-27	143	58	2011-01-28 to 2011-10-03	172	-36
2011-10-04 to 2012-02-17	95	33	2012-02-21 to 2012-07-25	109	-24
2012-07-26 to 2014-07-03	487	118	2014-07-07 to 2016-02-11	405	-28
2016-02-12 to 2018-01-12	484	68	2018-01-16 to 2018-12-24	238	-30
2018-12-26 to 2020-02-19	289	60	2020-02-20 to 2020-03-18	20	-50

Automobiles

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2020-03-19 to 2020-08-31	115	231	2020-09-01 to 2020-09-08	5	-21
2020-09-09 to NA	59	43		NA	NA

Aircraft

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-02 to 1926-07-16	11	5	1926-07-17 to 1926-10-20	79	-35
1926-10-21 to 1927-01-06	63	28	1927-01-07 to 1927-04-28	93	-20
1927-04-29 to 1928-05-16	313	713	1928-05-17 to 1928-05-22	4	-23
1928-05-23 to 1928-06-05	10	10	1928-06-06 to 1928-06-18	11	-26
1928-06-19 to 1929-02-05	191	113	1929-02-06 to 1929-05-31	92	-17
1929-06-01 to 1929-08-20	68	22	1929-08-21 to 1929-11-13	66	-75
1929-11-14 to 1930-04-07	115	114	1930-04-08 to 1930-06-24	63	-44
1930-06-25 to 1930-07-16	17	19	1930-07-17 to 1930-12-29	136	-62
1930-12-30 to 1931-02-26	48	77	1931-02-27 to 1931-06-02	80	-41
1931-06-03 to 1931-06-27	22	40	1931-06-29 to 1931-10-05	82	-52
1931-10-06 to 1931-11-09	28	24	1931-11-10 to 1931-12-28	39	-32
1931-12-29 to 1932-02-01	29	34	1932-02-02 to 1932-05-31	99	-60
1932-06-01 to 1932-09-07	82	258	1932-09-08 to 1932-09-14	6	-27
1932-09-15 to 1932-09-24	9	32	1932-09-26 to 1932-10-10	13	-30
1932-10-11 to 1932-10-19	7	16	1932-10-20 to 1932-11-02	12	-18
1932-11-03 to 1932-11-11	7	29	1932-11-12 to 1932-12-02	17	-22
1932-12-03 to 1933-01-06	28	29	1933-01-09 to 1933-02-27	41	-34
1933-02-28 to 1933-07-17	108	160	1933-07-18 to 1933-07-22	5	-32
1933-07-24 to 1933-08-28	26	20	1933-08-29 to 1933-10-21	44	-37
1933-10-23 to 1934-01-31	83	79	1934-02-01 to 1934-07-26	146	-53

Aircraft

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1934-07-27 to 1934-12-05	108	43	1934-12-06 to 1935-03-13	80	-27
1935-03-14 to 1936-03-11	300	188	1936-03-12 to 1936-04-29	41	-20
1936-04-30 to 1937-03-03	252	55	1937-03-04 to 1937-10-19	190	-60
1937-10-20 to 1938-01-11	67	47	1938-01-12 to 1938-03-30	65	-32
1938-03-31 to 1938-07-25	97	68	1938-07-26 to 1938-09-27	54	-23
1938-09-28 to 1938-12-29	75	71	1938-12-30 to 1939-01-23	20	-20
1939-01-24 to 1939-02-24	26	19	1939-02-25 to 1939-04-08	36	-25
1939-04-10 to 1940-04-15	307	70	1940-04-16 to 1940-07-03	67	-32
1940-07-05 to 1940-11-12	108	34	1940-11-13 to 1941-04-21	131	-22
1941-04-22 to 1941-09-17	125	35	1941-09-18 to 1942-05-22	203	-30
1942-05-23 to 1943-05-04	285	60	1943-05-05 to 1943-11-30	173	-28
1943-12-01 to 1946-02-02	638	152	1946-02-04 to 1947-05-19	368	-52
1947-05-20 to 1953-03-20	1622	302	1953-03-23 to 1953-09-14	124	-18
1953-09-15 to 1955-02-23	362	237	1955-02-24 to 1955-05-17	58	-23
1955-05-18 to 1956-12-12	397	70	1956-12-13 to 1957-10-10	208	-41
1957-10-11 to 1959-05-11	397	86	1959-05-12 to 1959-09-22	94	-30
1959-09-23 to 1959-12-01	48	25	1959-12-02 to 1960-05-02	105	-19
1960-05-03 to 1961-08-08	319	72	1961-08-09 to 1962-05-28	202	-34
1962-05-29 to 1966-04-15	978	224	1966-04-18 to 1966-10-07	122	-34
1966-10-10 to 1967-08-09	210	92	1967-08-10 to 1968-03-05	142	-24

Aircraft

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1968-03-06 to 1968-06-11	67	17	1968-06-13 to 1970-07-07	495	-72
1970-07-08 to 1970-10-07	65	35	1970-10-08 to 1970-11-19	31	-19
1970-11-20 to 1971-05-13	120	64	1971-05-14 to 1971-11-23	135	-24
1971-11-24 to 1972-12-07	263	58	1972-12-08 to 1973-07-03	141	-42
1973-07-05 to 1973-10-12	71	30	1973-10-15 to 1973-12-05	37	-34
1973-12-06 to 1974-03-12	66	21	1974-03-13 to 1974-09-13	129	-31
1974-09-16 to 1978-08-09	986	467	1978-08-10 to 1978-10-27	56	-25
1978-10-30 to 1980-01-30	317	75	1980-01-31 to 1980-05-09	70	-28
1980-05-12 to 1981-01-06	165	56	1981-01-07 to 1982-03-17	302	-35
1982-03-18 to 1983-06-22	321	131	1983-06-23 to 1984-03-23	191	-20
1984-03-26 to 1987-08-25	864	108	1987-08-26 to 1987-12-04	71	-40
1987-12-07 to 1990-06-14	638	96	1990-06-15 to 1990-09-27	73	-28
1990-09-28 to 1997-07-24	1725	446	1997-07-25 to 1997-10-27	66	-23
1997-10-28 to 1998-04-06	110	27	1998-04-07 to 1998-10-08	129	-33
1998-10-09 to 1999-07-14	191	67	1999-07-15 to 2000-03-13	168	-31
2000-03-14 to 2000-12-08	189	65	2000-12-11 to 2001-03-22	70	-21
2001-03-23 to 2001-05-21	41	31	2001-05-22 to 2001-09-20	81	-51
2001-09-21 to 2002-03-11	117	65	2002-03-12 to 2002-10-09	148	-39
2002-10-10 to 2002-11-06	20	20	2002-11-07 to 2003-03-12	85	-18
2003-03-13 to 2007-10-01	1147	265	2007-10-02 to 2008-10-27	271	-55

Aircraft

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2008-10-28 to 2008-11-04	6	12	2008-11-05 to 2008-11-20	12	-22
2008-11-21 to 2009-01-06	30	25	2009-01-07 to 2009-03-09	42	-31
2009-03-10 to 2011-07-07	588	154	2011-07-08 to 2011-08-10	24	-23
2011-08-11 to 2015-02-20	887	132	2015-02-23 to 2016-02-11	246	-22
2016-02-12 to 2018-10-03	666	143	2018-10-04 to 2018-12-24	56	-25
2018-12-26 to 2019-11-15	226	32	2019-11-18 to 2020-03-23	86	-59
2020-03-24 to 2020-03-26	3	27	2020-03-27 to 2020-04-02	5	-16
2020-04-03 to 2020-06-08	45	61	2020-06-09 to 2020-10-28	100	-23
2020-10-29 to NA	23	33		NA	NA

Shipbuilding, Railroad Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-10-10	978	85	1929-10-11 to 1929-11-13	24	-30
1929-11-14 to 1930-02-18	75	18	1930-02-19 to 1930-12-29	256	-44
1930-12-30 to 1931-02-27	49	19	1931-02-28 to 1931-06-02	79	-43
1931-06-03 to 1931-06-27	22	26	1931-06-29 to 1931-10-05	82	-42
1931-10-06 to 1931-10-10	5	18	1931-10-13 to 1931-12-15	53	-39
1931-12-16 to 1932-03-05	65	36	1932-03-07 to 1932-05-31	72	-48
1932-06-01 to 1932-09-03	80	136	1932-09-06 to 1932-09-14	8	-21
1932-09-15 to 1932-09-24	9	19	1932-09-26 to 1932-12-28	77	-31
1932-12-29 to 1933-07-07	148	243	1933-07-08 to 1933-07-21	12	-28
1933-07-22 to 1933-08-28	27	30	1933-08-29 to 1933-10-21	44	-29
1933-10-23 to 1934-02-05	87	43	1934-02-06 to 1934-09-17	186	-43
1934-09-18 to 1935-01-09	92	45	1935-01-10 to 1935-04-30	92	-28
1935-05-01 to 1935-07-31	77	36	1935-08-01 to 1935-10-02	53	-21
1935-10-03 to 1936-03-03	123	81	1936-03-04 to 1936-04-29	48	-21
1936-04-30 to 1937-03-06	255	84	1937-03-08 to 1937-10-19	187	-60
1937-10-20 to 1938-01-15	71	17	1938-01-17 to 1938-02-03	16	-20
1938-02-04 to 1938-02-26	18	18	1938-02-28 to 1938-03-30	27	-35
1938-03-31 to 1938-04-16	14	39	1938-04-18 to 1938-05-31	37	-19
1938-06-01 to 1938-07-25	46	53	1938-07-26 to 1938-09-26	53	-26
1938-09-27 to 1938-12-31	78	62	1939-01-03 to 1939-04-08	80	-39

Shipbuilding, Railroad Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1939-04-10 to 1939-09-26	143	76	1939-09-27 to 1940-05-21	195	-50
1940-05-22 to 1941-07-21	351	55	1941-07-22 to 1941-12-10	117	-26
1941-12-11 to 1942-02-05	47	17	1942-02-06 to 1942-07-01	121	-21
1942-07-02 to 1946-05-29	1157	283	1946-05-31 to 1946-11-22	128	-33
1946-11-23 to 1947-02-11	66	22	1947-02-13 to 1947-05-17	79	-20
1947-05-19 to 1948-05-15	281	26	1948-05-17 to 1949-06-13	303	-34
1949-06-14 to 1957-05-17	2087	437	1957-05-20 to 1957-10-22	109	-24
1957-10-23 to 1959-03-17	351	45	1959-03-18 to 1960-09-28	389	-22
1960-09-29 to 1961-08-10	217	27	1961-08-11 to 1962-06-22	218	-33
1962-06-25 to 1966-02-09	915	137	1966-02-10 to 1966-10-07	167	-33
1966-10-10 to 1968-12-17	526	112	1968-12-19 to 1969-07-30	151	-32
1969-07-31 to 1969-10-28	63	21	1969-10-29 to 1970-05-26	145	-28
1970-05-27 to 1971-09-07	325	79	1971-09-08 to 1972-07-28	227	-23
1972-07-31 to 1974-01-04	360	74	1974-01-07 to 1974-10-03	189	-54
1974-10-04 to 1975-07-15	196	59	1975-07-16 to 1975-11-10	83	-25
1975-11-11 to 1978-09-11	715	98	1978-09-12 to 1978-11-14	46	-25
1978-11-15 to 1980-01-30	305	120	1980-01-31 to 1980-04-21	56	-28
1980-04-22 to 1980-11-20	149	59	1980-11-21 to 1982-03-08	325	-46
1982-03-09 to 1983-11-25	437	142	1983-11-28 to 1984-03-07	70	-22
1984-03-08 to 1985-02-13	238	80	1985-02-14 to 1985-10-28	177	-19

Shipbuilding, Railroad Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1985-10-29 to 1986-04-15	116	32	1986-04-16 to 1987-12-01	413	-45
1987-12-02 to 1988-05-03	106	38	1988-05-04 to 1988-11-21	141	-22
1988-11-22 to 1989-05-26	129	30	1989-05-30 to 1990-02-27	190	-44
1990-02-28 to 1990-06-18	77	24	1990-06-19 to 1990-11-01	96	-36
1990-11-02 to 1991-04-19	116	46	1991-04-22 to 1991-10-04	117	-34
1991-10-07 to 1992-04-30	144	51	1992-05-01 to 1992-10-07	111	-25
1992-10-08 to 1993-10-08	254	43	1993-10-11 to 1994-12-09	296	-23
1994-12-12 to 1997-10-10	717	133	1997-10-13 to 1998-09-10	230	-24
1998-09-11 to 1999-07-02	204	49	1999-07-06 to 2000-03-07	171	-40
2000-03-08 to 2002-06-21	574	177	2002-06-24 to 2003-03-12	181	-48
2003-03-13 to 2008-08-11	1364	265	2008-08-12 to 2008-10-27	54	-46
2008-10-28 to 2008-11-04	6	10	2008-11-05 to 2008-11-20	12	-23
2008-11-21 to 2009-01-06	30	22	2009-01-07 to 2009-03-09	42	-39
2009-03-10 to 2010-04-29	288	208	2010-04-30 to 2010-07-06	46	-30
2010-07-07 to 2011-04-04	189	94	2011-04-05 to 2011-10-03	126	-40
2011-10-04 to 2014-09-18	744	309	2014-09-19 to 2014-10-13	17	-22
2014-10-14 to 2015-04-15	126	28	2015-04-16 to 2016-01-19	192	-34
2016-01-20 to 2018-10-05	685	105	2018-10-08 to 2018-12-24	54	-32
2018-12-26 to 2020-02-05	280	24	2020-02-06 to 2020-03-23	32	-45
2020-03-24 to 2020-06-08	53	47	2020-06-09 to 2020-10-28	100	-18

Shipbuilding, Railroad Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2020-10-29 to NA	23	20		NA	NA

Military Vehicles, Components, and Ordnance

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1963-07-01 to 1963-07-08	5	3	1963-07-09 to 1964-06-30	247	-24
1964-07-01 to 1966-04-21	456	55	1966-04-22 to 1966-10-10	119	-32
1966-10-11 to 1967-07-14	191	68	1967-07-17 to 1968-03-22	173	-24
1968-03-25 to 1968-12-16	160	62	1968-12-17 to 1970-05-25	359	-59
1970-05-26 to 1971-04-27	234	95	1971-04-28 to 1971-11-18	144	-22
1971-11-19 to 1972-04-24	108	41	1972-04-25 to 1973-06-25	293	-25
1973-06-26 to 1973-10-15	78	23	1973-10-16 to 1973-12-03	34	-23
1973-12-04 to 1974-03-26	78	29	1974-03-27 to 1974-12-30	193	-26
1974-12-31 to 1980-02-20	1299	463	1980-02-21 to 1980-04-21	42	-25
1980-04-22 to 1981-01-06	179	67	1981-01-07 to 1982-07-07	379	-37
1982-07-08 to 1983-10-17	325	135	1983-10-18 to 1984-05-24	153	-21
1984-05-25 to 1986-06-05	512	94	1986-06-06 to 1986-12-31	145	-20
1987-01-02 to 1987-08-12	155	41	1987-08-13 to 1987-10-28	54	-39
1987-10-29 to 1989-10-24	503	49	1989-10-25 to 1990-10-17	248	-22
1990-10-18 to 1998-03-20	1876	452	1998-03-23 to 1998-08-31	113	-24
1998-09-01 to 1998-11-05	47	22	1998-11-06 to 1999-01-29	57	-31
1999-02-01 to 1999-05-06	67	19	1999-05-07 to 2000-03-14	216	-54
2000-03-15 to 2002-06-27	573	279	2002-06-28 to 2002-07-22	16	-22
2002-07-23 to 2002-09-09	34	24	2002-09-10 to 2003-03-11	126	-37
2003-03-12 to 2008-08-28	1378	190	2008-08-29 to 2008-11-20	59	-41

Military Vehicles, Components, and Ordnance

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2008-11-21 to 2009-01-02	28	19	2009-01-05 to 2009-03-09	44	-29
2009-03-10 to 2010-05-03	290	52	2010-05-04 to 2011-08-10	322	-19
2011-08-11 to 2018-10-08	1802	517	2018-10-09 to 2018-12-24	53	-28
2018-12-26 to 2020-02-11	284	76	2020-02-12 to 2020-03-23	28	-35
2020-03-24 to NA	176	31		NA	NA

Precious Metals

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1963-07-01 to 1966-07-22	772	82	1966-07-25 to 1966-10-10	55	-29
1966-10-11 to 1968-03-04	350	148	1968-03-05 to 1968-04-04	23	-24
1968-04-05 to 1969-05-26	259	47	1969-05-27 to 1969-07-29	43	-34
1969-07-30 to 1969-09-22	38	26	1969-09-23 to 1970-05-26	171	-45
1970-05-27 to 1971-05-05	239	80	1971-05-06 to 1971-11-22	140	-34
1971-11-23 to 1974-02-08	558	167	1974-02-11 to 1974-05-28	74	-24
1974-05-29 to 1974-08-16	57	34	1974-08-19 to 1974-09-12	18	-41
1974-09-13 to 1974-11-08	41	31	1974-11-11 to 1974-12-31	35	-23
1975-01-02 to 1975-06-27	124	37	1975-06-30 to 1975-12-09	114	-37
1975-12-10 to 1976-06-02	121	30	1976-06-03 to 1976-08-30	62	-23
1976-08-31 to 1978-10-10	533	70	1978-10-11 to 1978-11-30	36	-25
1978-12-01 to 1980-03-05	318	226	1980-03-06 to 1980-03-27	16	-33
1980-03-28 to 1980-09-22	123	141	1980-09-23 to 1981-03-02	110	-39
1981-03-03 to 1981-05-15	53	24	1981-05-18 to 1981-06-29	30	-23
1981-06-30 to 1981-08-19	36	21	1981-08-20 to 1982-03-08	138	-56
1982-03-09 to 1982-04-06	21	23	1982-04-07 to 1982-06-21	52	-43
1982-06-22 to 1983-01-31	156	262	1983-02-01 to 1983-03-24	37	-24
1983-03-25 to 1983-05-25	43	41	1983-05-26 to 1983-10-31	110	-36
1983-11-01 to 1984-03-05	86	38	1984-03-06 to 1984-07-24	98	-41
1984-07-25 to 1984-09-21	42	18	1984-09-24 to 1985-01-08	74	-28

Precious Metals

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1985-01-09 to 1985-08-21	157	47	1985-08-22 to 1986-07-25	233	-36
1986-07-28 to 1987-04-14	182	162	1987-04-15 to 1987-06-22	47	-22
1987-06-23 to 1987-09-15	59	44	1987-09-16 to 1987-11-11	41	-39
1987-11-12 to 1987-11-27	11	31	1987-11-30 to 1988-02-03	46	-22
1988-02-04 to 1988-06-13	90	34	1988-06-14 to 1989-06-01	245	-27
1989-06-02 to 1990-02-05	172	63	1990-02-06 to 1990-06-14	90	-30
1990-06-15 to 1990-08-16	44	33	1990-08-17 to 1990-12-06	78	-39
1990-12-07 to 1991-01-07	20	25	1991-01-08 to 1991-02-04	20	-20
1991-02-05 to 1992-01-20	242	29	1992-01-21 to 1992-04-29	70	-22
1992-04-30 to 1992-07-17	55	33	1992-07-20 to 1993-01-25	132	-35
1993-01-26 to 1993-08-02	131	69	1993-08-03 to 1993-09-13	29	-24
1993-09-14 to 1994-01-17	88	34	1994-01-18 to 1994-08-16	146	-22
1994-08-17 to 1994-09-27	29	21	1994-09-28 to 1995-02-07	92	-30
1995-02-08 to 1996-02-05	251	71	1996-02-06 to 1997-01-08	234	-30
1997-01-09 to 1997-02-28	36	20	1997-03-03 to 1997-04-28	40	-25
1997-04-29 to 1997-09-30	108	24	1997-10-01 to 1998-01-12	71	-46
1998-01-13 to 1998-04-22	69	37	1998-04-23 to 1998-08-31	91	-55
1998-09-01 to 1998-10-07	26	84	1998-10-08 to 1998-12-22	53	-33
1998-12-23 to 1999-01-11	12	20	1999-01-12 to 1999-04-08	60	-20
1999-04-09 to 1999-05-06	20	35	1999-05-07 to 1999-07-19	50	-26

Precious Metals

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1999-07-20 to 1999-10-04	54	60	1999-10-05 to 2000-02-01	83	-34
2000-02-02 to 2000-05-04	65	23	2000-05-05 to 2000-11-17	138	-48
2000-11-20 to 2001-10-01	213	108	2001-10-02 to 2001-11-19	35	-21
2001-11-20 to 2002-06-03	133	84	2002-06-04 to 2002-07-26	38	-31
2002-07-29 to 2002-09-16	35	31	2002-09-17 to 2002-11-27	52	-20
2002-11-29 to 2003-01-03	24	29	2003-01-06 to 2003-03-24	54	-21
2003-03-25 to 2004-01-05	198	105	2004-01-06 to 2004-05-07	86	-29
2004-05-10 to 2004-11-12	131	38	2004-11-15 to 2005-05-16	126	-28
2005-05-17 to 2006-02-01	180	75	2006-02-02 to 2006-03-09	25	-19
2006-03-10 to 2006-04-19	28	23	2006-04-20 to 2007-06-26	298	-28
2007-06-27 to 2008-01-14	139	48	2008-01-15 to 2008-04-29	73	-22
2008-04-30 to 2008-07-01	44	17	2008-07-02 to 2008-09-09	48	-31
2008-09-10 to 2008-09-22	9	19	2008-09-23 to 2008-10-27	25	-52
2008-10-28 to 2008-11-04	6	11	2008-11-05 to 2008-11-19	11	-21
2008-11-20 to 2009-01-23	43	96	2009-01-26 to 2009-03-10	31	-19
2009-03-11 to 2009-05-29	56	37	2009-06-01 to 2009-07-10	29	-22
2009-07-13 to 2009-12-02	101	52	2009-12-03 to 2010-01-29	39	-23
2010-02-01 to 2011-11-07	448	65	2011-11-08 to 2012-05-16	131	-38
2012-05-17 to 2012-09-14	84	32	2012-09-17 to 2013-08-07	223	-56
2013-08-08 to 2013-08-26	13	18	2013-08-27 to 2014-02-05	112	-31

Precious Metals

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2014-02-06 to 2014-03-14	26	25	2014-03-17 to 2014-11-05	164	-38
2014-11-06 to 2015-05-15	131	48	2015-05-18 to 2015-09-10	81	-43
2015-09-11 to 2015-12-04	60	23	2015-12-07 to 2016-01-19	29	-18
2016-01-20 to 2016-08-10	142	208	2016-08-11 to 2016-12-15	89	-32
2016-12-16 to 2017-02-06	34	23	2017-02-07 to 2018-09-11	402	-28
2018-09-12 to 2020-03-06	373	65	2020-03-09 to 2020-03-13	5	-18
2020-03-16 to NA	182	51		NA	NA

Non-Metallic and Industrial Metal Mining

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-03-20	809	201	1929-03-21 to 1929-06-28	83	-24
1929-06-29 to 1929-09-09	59	11	1929-09-10 to 1929-10-29	42	-34
1929-10-30 to 1929-10-31	2	13	1929-11-04 to 1929-11-14	8	-25
1929-11-15 to 1930-02-07	66	4	1930-02-08 to 1930-08-13	152	-28
1930-08-14 to 1930-08-21	7	20	1930-08-22 to 1930-11-10	65	-26
1930-11-11 to 1930-11-14	4	17	1930-11-15 to 1930-12-22	31	-25
1930-12-23 to 1931-02-27	54	33	1931-02-28 to 1931-06-01	78	-33
1931-06-02 to 1931-06-29	24	17	1931-06-30 to 1931-10-05	81	-38
1931-10-06 to 1931-11-09	28	20	1931-11-10 to 1932-01-05	45	-35
1932-01-06 to 1932-01-21	14	13	1932-01-22 to 1932-06-30	134	-38
1932-07-01 to 1932-09-07	56	105	1932-09-08 to 1933-02-27	140	-26
1933-02-28 to 1933-07-18	109	142	1933-07-19 to 1933-07-22	4	-20
1933-07-24 to 1933-09-19	43	27	1933-09-20 to 1933-10-21	27	-21
1933-10-23 to 1934-04-09	138	20	1934-04-10 to 1935-03-12	278	-22
1935-03-13 to 1937-03-11	601	144	1937-03-12 to 1937-10-19	183	-45
1937-10-20 to 1938-01-20	75	26	1938-01-21 to 1938-04-01	59	-29
1938-04-02 to 1938-10-15	164	53	1938-10-17 to 1939-04-10	143	-25
1939-04-11 to 1939-09-11	129	33	1939-09-12 to 1940-05-21	208	-35
1940-05-22 to 1941-09-18	401	43	1941-09-19 to 1942-04-28	181	-25
1942-04-29 to 1946-02-05	1119	183	1946-02-06 to 1948-02-13	569	-31

Non-Metallic and Industrial Metal Mining

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1948-02-14 to 1956-03-26	2179	327	1956-03-27 to 1957-12-30	443	-31
1957-12-31 to 1959-03-13	303	44	1959-03-16 to 1960-06-30	329	-21
1960-07-01 to 1961-09-01	295	53	1961-09-05 to 1962-10-23	287	-28
1962-10-24 to 1966-04-25	881	283	1966-04-26 to 1966-10-07	116	-34
1966-10-10 to 1969-01-02	535	107	1969-01-03 to 1970-05-26	350	-42
1970-05-27 to 1971-05-13	245	43	1971-05-14 to 1971-11-24	136	-31
1971-11-26 to 1974-01-07	532	101	1974-01-08 to 1974-09-13	174	-35
1974-09-16 to 1975-07-15	210	84	1975-07-16 to 1975-12-09	103	-22
1975-12-10 to 1976-07-15	151	41	1976-07-16 to 1978-02-21	404	-32
1978-02-22 to 1980-02-13	501	173	1980-02-14 to 1980-04-21	46	-27
1980-04-22 to 1981-08-14	333	86	1981-08-17 to 1982-08-12	251	-59
1982-08-13 to 1983-08-22	260	81	1983-08-23 to 1984-07-31	238	-33
1984-08-01 to 1985-07-26	250	21	1985-07-29 to 1986-07-28	252	-20
1986-07-29 to 1987-08-03	257	111	1987-08-04 to 1987-10-28	61	-42
1987-10-29 to 1990-07-25	692	81	1990-07-26 to 1990-11-08	75	-28
1990-11-09 to 1997-10-02	1744	150	1997-10-03 to 1998-01-22	76	-25
1998-01-23 to 1998-04-22	62	27	1998-04-23 to 1998-10-08	118	-26
1998-10-09 to 1999-07-02	184	50	1999-07-06 to 1999-09-24	58	-18
1999-09-27 to 2000-01-19	80	19	2000-01-20 to 2000-10-18	190	-25
2000-10-19 to 2001-05-21	147	43	2001-05-22 to 2001-09-21	82	-30

Non-Metallic and Industrial Metal Mining

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2001-09-24 to 2002-05-23	168	26	2002-05-24 to 2002-10-09	96	-37
2002-10-10 to 2004-01-05	311	130	2004-01-06 to 2004-05-17	92	-23
2004-05-18 to 2006-04-19	484	164	2006-04-20 to 2006-06-13	38	-28
2006-06-14 to 2007-07-23	278	139	2007-07-24 to 2007-08-16	18	-21
2007-08-17 to 2007-10-29	51	44	2007-10-30 to 2008-01-23	58	-32
2008-01-24 to 2008-05-16	80	43	2008-05-19 to 2008-10-27	113	-73
2008-10-28 to 2008-11-04	6	30	2008-11-05 to 2008-11-20	12	-37
2008-11-21 to 2009-01-06	30	65	2009-01-07 to 2009-03-02	37	-24
2009-03-03 to 2009-06-11	71	76	2009-06-12 to 2009-07-08	18	-20
2009-07-09 to 2010-01-08	128	77	2010-01-11 to 2010-01-29	14	-23
2010-02-01 to 2010-04-14	51	24	2010-04-15 to 2010-07-01	55	-25
2010-07-02 to 2011-01-03	128	82	2011-01-04 to 2011-10-03	189	-47
2011-10-04 to 2012-02-08	88	46	2012-02-09 to 2012-06-01	79	-26
2012-06-04 to 2013-01-22	159	30	2013-01-23 to 2013-06-24	106	-25
2013-06-25 to 2014-07-09	262	37	2014-07-10 to 2015-01-29	141	-33
2015-01-30 to 2015-05-01	64	27	2015-05-04 to 2015-08-25	80	-31
2015-08-26 to 2015-10-09	32	21	2015-10-12 to 2016-01-19	68	-32
2016-01-20 to 2018-01-26	510	136	2018-01-29 to 2018-12-24	229	-42
2018-12-26 to 2020-01-13	264	45	2020-01-14 to 2020-03-23	48	-48
2020-03-24 to NA	176	121		NA	NA

Coal

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-10-11	979	43	1929-10-14 to 1930-12-15	343	-58
1930-12-16 to 1931-01-08	19	38	1931-01-09 to 1931-06-02	120	-47
1931-06-03 to 1931-06-26	21	31	1931-06-27 to 1931-10-05	83	-51
1931-10-06 to 1931-10-20	12	20	1931-10-21 to 1931-12-23	53	-47
1931-12-24 to 1932-01-13	15	45	1932-01-14 to 1932-04-12	74	-50
1932-04-13 to 1932-04-28	14	19	1932-04-29 to 1932-06-01	28	-28
1932-06-02 to 1932-06-16	13	26	1932-06-17 to 1932-06-30	12	-16
1932-07-01 to 1932-09-02	53	239	1932-09-03 to 1932-09-14	9	-31
1932-09-15 to 1932-09-23	8	33	1932-09-24 to 1932-10-10	14	-40
1932-10-11 to 1932-10-20	8	20	1932-10-21 to 1932-11-03	12	-13
1932-11-04 to 1932-11-12	7	14	1932-11-14 to 1932-12-23	34	-31
1932-12-24 to 1933-01-10	12	24	1933-01-11 to 1933-02-27	39	-30
1933-02-28 to 1933-07-17	108	166	1933-07-18 to 1933-07-22	5	-35
1933-07-24 to 1933-08-25	25	11	1933-08-28 to 1933-10-19	43	-41
1933-10-20 to 1934-02-21	102	48	1934-02-23 to 1934-07-26	129	-39
1934-07-27 to 1935-01-07	134	25	1935-01-08 to 1935-03-14	55	-30
1935-03-15 to 1936-02-20	283	54	1936-02-21 to 1936-07-07	114	-28
1936-07-08 to 1937-03-06	198	50	1937-03-08 to 1937-10-19	187	-59
1937-10-20 to 1937-10-30	10	17	1937-11-01 to 1937-12-28	46	-21
1937-12-29 to 1938-01-10	10	19	1938-01-11 to 1938-03-31	67	-38

Coal

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1938-04-01 to 1938-07-23	95	55	1938-07-25 to 1938-09-26	54	-24
1938-09-27 to 1938-11-17	42	27	1938-11-18 to 1939-04-08	116	-35
1939-04-10 to 1939-09-12	131	123	1939-09-13 to 1940-05-22	208	-51
1940-05-23 to 1941-08-01	360	97	1941-08-02 to 1941-12-22	117	-27
1941-12-23 to 1943-06-05	437	99	1943-06-07 to 1943-11-09	130	-22
1943-11-10 to 1946-05-31	749	168	1946-06-03 to 1946-11-22	127	-23
1946-11-23 to 1948-07-14	468	118	1948-07-15 to 1949-06-13	261	-28
1949-06-14 to 1953-01-06	988	134	1953-01-07 to 1953-09-15	176	-27
1953-09-16 to 1956-12-06	812	238	1956-12-07 to 1957-10-21	219	-39
1957-10-22 to 1962-02-20	1091	153	1962-02-21 to 1962-06-25	86	-31
1962-06-26 to 1968-12-19	1608	414	1968-12-20 to 1969-06-26	128	-32
1969-06-27 to 1970-03-03	171	57	1970-03-04 to 1970-05-21	56	-27
1970-05-22 to 1971-04-23	234	122	1971-04-26 to 1971-11-23	149	-37
1971-11-24 to 1972-02-09	54	47	1972-02-10 to 1972-10-16	173	-49
1972-10-17 to 1973-02-09	78	53	1973-02-12 to 1973-08-31	141	-39
1973-09-04 to 1974-05-08	172	77	1974-05-09 to 1974-10-01	101	-35
1974-10-02 to 1975-06-02	168	226	1975-06-03 to 1975-11-20	121	-30
1975-11-21 to 1977-03-18	334	74	1977-03-21 to 1978-12-18	442	-36
1978-12-19 to 1979-09-20	191	62	1979-09-21 to 1979-10-31	29	-19
1979-11-01 to 1980-02-13	72	43	1980-02-14 to 1980-03-27	30	-30

Coal

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1980-03-28 to 1980-11-28	170	71	1980-12-01 to 1981-02-20	57	-20
1981-02-23 to 1981-07-14	99	22	1981-07-15 to 1981-09-25	52	-29
1981-09-28 to 1981-12-01	46	23	1981-12-02 to 1982-08-12	176	-45
1982-08-13 to 1983-09-26	284	56	1983-09-27 to 1984-07-24	209	-27
1984-07-25 to 1987-08-25	780	32	1987-08-26 to 1987-12-10	75	-39
1987-12-11 to 1990-06-01	625	113	1990-06-04 to 1991-01-22	162	-32
1991-01-23 to 1991-10-31	197	24	1991-11-01 to 1992-06-30	167	-29
1992-07-01 to 1992-11-02	87	20	1992-11-03 to 1993-06-25	163	-23
1993-06-28 to 1993-12-22	125	27	1993-12-23 to 1994-05-17	100	-25
1994-05-18 to 1994-06-20	23	19	1994-06-21 to 1995-02-22	171	-20
1995-02-23 to 1997-06-19	588	111	1997-06-20 to 1998-02-03	157	-37
1998-02-04 to 1998-05-19	73	26	1998-05-20 to 1998-10-08	99	-41
1998-10-09 to 1999-05-12	148	228	1999-05-13 to 1999-08-10	62	-44
1999-08-11 to 2000-03-10	148	136	2000-03-13 to 2000-04-12	23	-42
2000-04-13 to 2000-05-01	12	20	2000-05-02 to 2000-05-23	16	-23
2000-05-24 to 2001-05-21	250	309	2001-05-22 to 2001-07-20	42	-51
2001-07-23 to 2001-08-22	23	22	2001-08-23 to 2001-09-26	20	-23
2001-09-27 to 2001-10-29	23	39	2001-10-30 to 2002-02-06	68	-19
2002-02-07 to 2002-04-02	37	30	2002-04-03 to 2002-07-23	78	-45
2002-07-24 to 2002-08-26	24	28	2002-08-27 to 2002-10-09	31	-20

Coal

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2002-10-10 to 2003-06-11	168	85	2003-06-12 to 2003-08-06	39	-20
2003-08-07 to 2006-05-11	696	550	2006-05-12 to 2006-09-20	91	-47
2006-09-21 to 2006-12-08	56	28	2006-12-11 to 2007-01-04	16	-20
2007-01-05 to 2007-05-30	100	51	2007-05-31 to 2007-08-03	46	-27
2007-08-06 to 2008-06-30	228	198	2008-07-01 to 2008-08-12	30	-37
2008-08-13 to 2008-08-21	7	13	2008-08-22 to 2008-10-10	35	-60
2008-10-13 to 2008-10-13	1	0	2008-10-14 to 2008-10-15	2	-19
2008-10-16 to 2008-10-20	3	24	2008-10-21 to 2008-10-27	5	-32
2008-10-28 to 2008-11-04	6	27	2008-11-05 to 2008-11-20	12	-49
2008-11-21 to 2008-11-26	4	35	2008-11-28 to 2008-12-04	5	-24
2008-12-05 to 2009-01-06	21	56	2009-01-07 to 2009-01-20	9	-18
2009-01-21 to 2009-02-09	14	18	2009-02-10 to 2009-03-02	14	-27
2009-03-03 to 2009-06-11	71	88	2009-06-12 to 2009-07-07	17	-25
2009-07-08 to 2010-01-08	129	104	2010-01-11 to 2010-02-08	20	-19
2010-02-09 to 2010-03-05	18	20	2010-03-08 to 2010-07-02	83	-30
2010-07-06 to 2011-04-01	189	89	2011-04-04 to 2011-10-03	127	-55
2011-10-04 to 2011-10-28	19	40	2011-10-31 to 2012-07-25	185	-54
2012-07-26 to 2012-11-01	68	39	2012-11-02 to 2013-07-05	168	-40
2013-07-08 to 2014-05-01	207	35	2014-05-02 to 2014-10-13	114	-37
2014-10-14 to 2014-11-21	29	25	2014-11-24 to 2015-01-30	46	-35

Coal

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2015-02-02 to 2015-02-25	17	16	2015-02-26 to 2015-08-24	125	-66
2015-08-25 to 2015-08-31	5	31	2015-09-01 to 2015-10-01	22	-35
2015-10-02 to 2015-10-09	6	20	2015-10-12 to 2015-10-30	15	-40
2015-11-02 to 2015-11-05	4	7	2015-11-06 to 2015-12-15	27	-25
2015-12-16 to 2015-12-24	7	25	2015-12-28 to 2016-01-15	14	-36
2016-01-19 to 2016-12-07	226	303	2016-12-08 to 2017-06-22	135	-40
2017-06-23 to 2018-06-07	241	75	2018-06-08 to 2020-03-12	443	-82
2020-03-13 to 2020-03-17	3	17	2020-03-18 to 2020-03-27	8	-21
2020-03-30 to 2020-04-14	11	29	2020-04-15 to 2020-04-24	8	-18
2020-04-27 to 2020-06-08	30	68	2020-06-09 to 2020-07-01	17	-29
2020-07-02 to 2020-09-18	55	48	2020-09-21 to 2020-10-29	29	-31
2020-10-30 to NA	22	16		NA	NA

Petroleum and Natural Gas

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-09-16	957	57	1929-09-17 to 1929-11-13	45	-32
1929-11-14 to 1930-04-23	127	29	1930-04-24 to 1930-12-16	194	-48
1930-12-17 to 1931-02-24	56	17	1931-02-25 to 1931-06-02	82	-40
1931-06-03 to 1931-08-19	66	33	1931-08-20 to 1931-10-05	38	-37
1931-10-06 to 1931-11-09	28	20	1931-11-10 to 1932-02-09	75	-33
1932-02-10 to 1932-03-08	22	20	1932-03-09 to 1932-06-01	71	-28
1932-06-02 to 1932-09-07	81	75	1932-09-08 to 1933-03-02	143	-34
1933-03-03 to 1933-07-06	96	109	1933-07-07 to 1933-07-21	13	-22
1933-07-22 to 1934-02-05	158	47	1934-02-06 to 1935-03-14	331	-27
1935-03-15 to 1937-03-10	598	142	1937-03-11 to 1938-03-31	317	-46
1938-04-01 to 1938-07-23	95	40	1938-07-25 to 1939-08-24	328	-29
1939-08-25 to 1939-09-12	15	37	1939-09-13 to 1940-06-03	217	-35
1940-06-04 to 1941-12-06	455	57	1941-12-08 to 1942-04-28	117	-29
1942-04-29 to 1946-05-31	1212	239	1946-06-03 to 1946-09-10	70	-20
1946-09-11 to 1948-06-15	505	65	1948-06-16 to 1949-06-13	281	-26
1949-06-14 to 1957-07-10	2123	663	1957-07-11 to 1958-02-25	159	-27
1958-02-26 to 1959-01-23	229	36	1959-01-26 to 1960-06-01	342	-27
1960-06-02 to 1969-05-14	2225	322	1969-05-15 to 1970-05-26	260	-45
1970-05-27 to 1974-01-07	913	113	1974-01-08 to 1974-10-03	188	-40
1974-10-04 to 1980-02-26	1363	351	1980-02-27 to 1980-03-27	22	-21

Petroleum and Natural Gas

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1980-03-28 to 1980-11-28	170	81	1980-12-01 to 1981-06-02	127	-31
1981-06-03 to 1981-08-11	49	25	1981-08-12 to 1981-09-25	32	-25
1981-09-28 to 1981-11-30	45	18	1981-12-01 to 1982-03-08	67	-31
1982-03-09 to 1982-05-11	45	20	1982-05-12 to 1982-08-12	65	-24
1982-08-13 to 1987-08-03	1257	261	1987-08-04 to 1987-12-04	87	-31
1987-12-07 to 1998-05-01	2630	404	1998-05-04 to 1999-03-02	209	-23
1999-03-03 to 2001-05-18	560	76	2001-05-21 to 2001-09-26	86	-27
2001-09-27 to 2002-04-02	128	23	2002-04-03 to 2002-07-23	78	-28
2002-07-24 to 2008-05-20	1467	333	2008-05-21 to 2008-10-10	100	-50
2008-10-13 to 2008-11-04	17	6	2008-11-05 to 2008-11-20	12	-19
2008-11-21 to 2009-01-06	30	14	2009-01-07 to 2009-03-05	40	-23
2009-03-06 to 2011-04-29	543	101	2011-05-02 to 2011-10-03	108	-27
2011-10-04 to 2014-06-23	683	79	2014-06-24 to 2015-08-25	296	-42
2015-08-26 to 2015-11-03	49	22	2015-11-04 to 2016-01-20	52	-25
2016-01-21 to 2016-12-13	228	47	2016-12-14 to 2017-08-21	172	-18
2017-08-22 to 2018-10-03	282	37	2018-10-04 to 2018-12-24	56	-32
2018-12-26 to 2019-04-22	80	21	2019-04-23 to 2020-03-23	232	-65
2020-03-24 to 2020-06-08	53	73	2020-06-09 to 2020-10-28	100	-38
2020-10-29 to NA	23	29		NA	NA

Utilities

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-09-23	963	333	1929-09-24 to 1929-10-29	30	-47
1929-10-30 to 1929-10-31	2	9	1929-11-04 to 1929-11-13	7	-29
1929-11-14 to 1930-04-26	130	64	1930-04-28 to 1930-12-16	191	-45
1930-12-17 to 1931-03-20	77	35	1931-03-21 to 1931-06-02	61	-28
1931-06-03 to 1931-06-27	22	14	1931-06-29 to 1931-10-05	82	-44
1931-10-06 to 1931-11-09	28	17	1931-11-10 to 1931-12-17	32	-29
1931-12-18 to 1932-03-08	65	12	1932-03-09 to 1932-06-01	71	-51
1932-06-02 to 1932-09-07	81	110	1932-09-08 to 1932-10-10	28	-26
1932-10-11 to 1933-01-11	74	13	1933-01-12 to 1933-04-04	60	-36
1933-04-05 to 1933-06-12	57	91	1933-06-13 to 1933-12-26	157	-47
1933-12-27 to 1934-02-06	35	53	1934-02-07 to 1935-03-14	330	-55
1935-03-15 to 1937-01-13	552	209	1937-01-14 to 1937-06-14	125	-32
1937-06-15 to 1937-07-24	33	25	1937-07-26 to 1937-10-19	72	-38
1937-10-20 to 1937-11-13	20	13	1937-11-15 to 1938-03-30	112	-30
1938-03-31 to 1940-01-03	530	83	1940-01-04 to 1940-06-10	132	-26
1940-06-11 to 1940-11-04	123	22	1940-11-06 to 1942-04-28	443	-48
1942-04-29 to 1946-05-29	1211	355	1946-05-31 to 1948-02-27	488	-25
1948-02-28 to 1961-11-20	3592	857	1961-11-21 to 1962-06-25	149	-24
1962-06-26 to 1965-05-13	726	69	1965-05-14 to 1966-08-29	327	-21
1966-08-30 to 1968-11-29	544	36	1968-12-02 to 1970-05-26	369	-26

Utilities

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1970-05-27 to 1972-11-24	634	48	1972-11-27 to 1974-09-13	453	-46
1974-09-16 to 1987-02-05	3133	965	1987-02-06 to 1987-10-19	177	-21
1987-10-20 to 1993-09-13	1492	162	1993-09-14 to 1994-06-24	198	-22
1994-06-27 to 2001-05-23	1745	182	2001-05-24 to 2002-07-23	289	-43
2002-07-24 to 2002-08-26	24	21	2002-08-27 to 2002-10-09	31	-26
2002-10-10 to 2007-12-10	1301	214	2007-12-11 to 2009-03-09	312	-45
2009-03-10 to 2014-12-29	1463	192	2014-12-30 to 2015-12-14	242	-19
2015-12-15 to 2020-02-18	1050	89	2020-02-19 to 2020-03-23	24	-38
2020-03-24 to NA	176	29		NA	NA

Communication

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-10-11	979	166	1929-10-14 to 1929-11-12	22	-32
1929-11-13 to 1930-04-09	118	33	1930-04-10 to 1932-01-05	519	-51
1932-01-06 to 1932-03-05	50	16	1932-03-07 to 1932-07-09	104	-43
1932-07-11 to 1932-09-07	50	65	1932-09-08 to 1933-04-17	172	-21
1933-04-18 to 1936-12-14	1098	176	1936-12-15 to 1938-03-30	385	-37
1938-03-31 to 1940-04-08	609	76	1940-04-09 to 1942-04-28	619	-33
1942-04-29 to 1946-07-10	1239	148	1946-07-11 to 1947-06-19	269	-21
1947-06-20 to 1961-12-12	3798	583	1961-12-13 to 1962-06-26	135	-27
1962-06-27 to 1964-07-07	510	54	1964-07-08 to 1966-08-29	542	-24
1966-08-30 to 1968-11-26	542	30	1968-11-27 to 1970-06-25	393	-25
1970-06-26 to 1973-01-11	643	57	1973-01-12 to 1974-10-01	434	-23
1974-10-02 to 1987-10-01	3286	1035	1987-10-02 to 1987-10-19	12	-25
1987-10-20 to 1990-01-02	557	101	1990-01-03 to 1990-08-23	163	-26
1990-08-24 to 1999-12-23	2359	581	1999-12-27 to 2000-12-21	252	-41
2000-12-22 to 2001-01-18	17	23	2001-01-19 to 2002-07-23	376	-62
2002-07-24 to 2003-01-06	115	38	2003-01-07 to 2003-03-11	44	-25
2003-03-12 to 2007-07-23	1099	114	2007-07-24 to 2008-10-27	320	-50
2008-10-28 to 2008-11-04	6	9	2008-11-05 to 2008-11-20	12	-21
2008-11-21 to 2009-01-02	28	25	2009-01-05 to 2009-03-09	44	-25
2009-03-10 to 2020-02-19	2756	489	2020-02-20 to 2020-03-23	23	-29

Communication

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2020-03-24 to NA	176	38		NA	NA

Personal Services

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1927-07-01 to 1927-10-13	87	19	1927-10-14 to 1928-01-10	72	-24
1928-01-11 to 1928-04-13	77	24	1928-04-14 to 1928-12-17	200	-47
1928-12-18 to 1929-01-02	12	19	1929-01-03 to 1929-03-26	67	-27
1929-03-27 to 1929-03-27	1	0	1929-03-28 to 1929-05-27	50	-21
1929-05-28 to 1929-08-03	57	75	1929-08-05 to 1929-11-06	75	-57
1929-11-07 to 1929-11-08	2	20	1929-11-11 to 1929-12-13	24	-42
1929-12-14 to 1929-12-31	14	21	1930-01-02 to 1930-01-21	17	-22
1930-01-22 to 1930-01-29	7	61	1930-01-30 to 1930-02-04	5	-27
1930-02-05 to 1930-02-15	9	11	1930-02-17 to 1930-02-27	9	-38
1930-02-28 to 1930-03-01	2	12	1930-03-03 to 1930-04-15	38	-25
1930-04-16 to 1930-04-30	11	53	1930-05-01 to 1930-06-18	40	-42
1930-06-19 to 1930-07-07	14	41	1930-07-08 to 1930-08-15	34	-16
1930-08-16 to 1930-09-20	29	46	1930-09-22 to 1930-10-10	17	-39
1930-10-11 to 1930-11-20	33	8	1930-11-21 to 1930-12-16	21	-21
1930-12-17 to 1931-04-08	92	268	1931-04-09 to 1931-05-29	44	-34
1931-06-01 to 1931-07-11	35	35	1931-07-13 to 1931-12-18	132	-44
1931-12-19 to 1932-03-14	69	17	1932-03-15 to 1932-04-08	21	-24
1932-04-09 to 1932-04-09	1	0	1932-04-11 to 1932-05-31	43	-22
1932-06-01 to 1932-06-16	14	23	1932-06-17 to 1932-07-09	18	-20
1932-07-11 to 1932-08-10	27	44	1932-08-11 to 1932-08-13	3	-22

Personal Services

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1932-08-15 to 1932-09-03	18	34	1932-09-06 to 1932-11-02	49	-38
1932-11-03 to 1932-11-19	14	20	1932-11-21 to 1932-12-24	29	-25
1932-12-27 to 1933-01-10	11	26	1933-01-11 to 1933-03-02	42	-48
1933-03-03 to 1933-03-16	3	20	1933-03-17 to 1933-04-13	24	-18
1933-04-15 to 1933-06-05	43	168	1933-06-06 to 1933-07-22	40	-32
1933-07-24 to 1933-08-25	25	23	1933-08-28 to 1933-10-20	44	-40
1933-10-21 to 1933-11-09	16	22	1933-11-10 to 1933-12-27	39	-23
1933-12-28 to 1934-02-05	33	98	1934-02-06 to 1934-05-11	79	-25
1934-05-12 to 1934-06-21	34	29	1934-06-22 to 1934-10-04	88	-32
1934-10-05 to 1934-12-29	69	32	1934-12-31 to 1935-03-19	65	-34
1935-03-20 to 1937-03-09	593	496	1937-03-10 to 1937-10-19	185	-65
1937-10-20 to 1937-10-29	9	11	1937-10-30 to 1937-12-28	47	-35
1937-12-29 to 1938-01-15	15	35	1938-01-17 to 1938-03-30	61	-41
1938-03-31 to 1938-07-22	95	120	1938-07-23 to 1938-09-27	56	-28
1938-09-28 to 1938-10-13	13	34	1938-10-14 to 1939-01-26	85	-28
1939-01-27 to 1939-03-10	35	43	1939-03-11 to 1939-04-08	24	-31
1939-04-10 to 1939-07-31	95	24	1939-08-01 to 1940-01-18	140	-37
1940-01-19 to 1940-04-06	65	20	1940-04-08 to 1940-06-11	55	-44
1940-06-12 to 1941-09-18	384	57	1941-09-19 to 1941-12-31	84	-37
1942-01-02 to 1946-05-22	1303	1181	1946-05-23 to 1947-06-03	290	-41

Personal Services

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1947-06-04 to 1947-10-20	99	18	1947-10-21 to 1949-02-23	384	-25
1949-02-24 to 1961-12-06	3323	1339	1961-12-07 to 1962-10-23	222	-40
1962-10-24 to 1963-06-05	154	47	1963-06-06 to 1964-06-02	249	-28
1964-06-03 to 1966-04-12	469	124	1966-04-13 to 1966-10-07	125	-41
1966-10-10 to 1968-01-18	321	176	1968-01-19 to 1968-03-26	46	-22
1968-03-27 to 1968-10-25	129	84	1968-10-28 to 1969-07-29	180	-49
1969-07-30 to 1969-11-11	74	26	1969-11-12 to 1970-05-25	134	-68
1970-05-26 to 1970-06-03	7	29	1970-06-04 to 1970-07-07	23	-24
1970-07-08 to 1970-10-05	63	41	1970-10-06 to 1970-11-24	36	-17
1970-11-25 to 1971-03-15	75	37	1971-03-16 to 1971-08-04	99	-24
1971-08-05 to 1972-03-03	148	48	1972-03-06 to 1973-06-25	328	-69
1973-06-26 to 1973-07-27	23	29	1973-07-30 to 1973-12-24	104	-37
1973-12-26 to 1974-03-14	55	22	1974-03-15 to 1974-10-03	141	-47
1974-10-04 to 1978-09-08	993	326	1978-09-11 to 1978-11-14	47	-28
1978-11-15 to 1980-02-07	311	44	1980-02-08 to 1980-03-27	34	-24
1980-03-28 to 1983-07-26	841	205	1983-07-27 to 1984-05-29	213	-23
1984-05-30 to 1987-02-06	681	160	1987-02-09 to 1987-12-04	209	-42
1987-12-07 to 1989-08-03	420	36	1989-08-04 to 1990-01-30	124	-22
1990-01-31 to 1990-07-16	115	27	1990-07-17 to 1990-10-17	66	-29
1990-10-18 to 1998-04-03	1886	380	1998-04-06 to 1998-10-08	130	-47

Personal Services

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1998-10-09 to 1998-12-31	58	43	1999-01-04 to 2000-03-14	302	-46
2000-03-15 to 2001-08-01	349	65	2001-08-02 to 2001-09-21	32	-20
2001-09-24 to 2002-04-10	137	30	2002-04-11 to 2002-07-22	71	-20
2002-07-23 to 2004-04-22	442	96	2004-04-23 to 2004-08-13	78	-23
2004-08-16 to 2007-10-31	810	44	2007-11-01 to 2008-03-17	93	-31
2008-03-18 to 2008-09-08	121	15	2008-09-09 to 2008-10-27	35	-31
2008-10-28 to 2008-11-04	6	14	2008-11-05 to 2008-11-20	12	-16
2008-11-21 to 2009-02-03	49	25	2009-02-04 to 2009-03-09	23	-23
2009-03-10 to 2010-04-21	282	51	2010-04-22 to 2010-08-31	92	-33
2010-09-01 to 2011-07-22	225	46	2011-07-25 to 2011-10-03	50	-33
2011-10-04 to 2012-02-09	89	33	2012-02-10 to 2012-08-02	121	-28
2012-08-03 to 2014-12-29	604	102	2014-12-30 to 2016-02-11	282	-32
2016-02-12 to 2019-07-24	867	75	2019-07-25 to 2020-03-20	166	-45
2020-03-23 to NA	177	64		NA	NA

Business Services

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1928-05-09	555	173	1928-05-10 to 1928-06-12	25	-19
1928-06-13 to 1929-09-21	382	82	1929-09-23 to 1929-10-30	32	-34
1929-10-31 to 1929-10-31	1	0	1929-11-04 to 1929-11-12	6	-45
1929-11-13 to 1929-11-15	3	23	1929-11-18 to 1929-11-20	3	-25
1929-11-21 to 1929-12-04	8	6	1929-12-05 to 1929-12-30	21	-9
1929-12-31 to 1930-01-10	9	26	1930-01-11 to 1930-01-31	18	-3
1930-02-01 to 1930-02-26	20	30	1930-02-27 to 1930-10-03	180	-39
1930-10-04 to 1930-10-04	1	0	1930-10-06 to 1930-11-07	27	-26
1930-11-08 to 1931-01-27	66	8	1931-01-28 to 1931-01-28	1	0
1931-01-29 to 1931-02-13	13	4	1931-02-14 to 1931-05-19	79	-46
1931-05-20 to 1931-05-22	3	1	1931-05-23 to 1931-05-26	3	-35
1931-05-27 to 1931-05-27	1	0	1931-05-28 to 1931-10-05	108	-45
1931-10-06 to 1931-10-21	13	10	1931-10-22 to 1931-12-11	42	-40
1931-12-12 to 1932-01-14	26	6	1932-01-15 to 1932-07-09	146	-43
1932-07-11 to 1932-09-07	50	66	1932-09-08 to 1933-04-01	160	-32
1933-04-03 to 1933-07-08	81	63	1933-07-10 to 1933-11-24	110	-52
1933-11-25 to 1933-12-05	8	7	1933-12-06 to 1933-12-14	8	-27
1933-12-15 to 1934-04-21	105	33	1934-04-23 to 1934-09-18	125	-44
1934-09-19 to 1934-12-10	67	61	1934-12-11 to 1935-01-29	41	-37
1935-01-30 to 1935-07-26	148	128	1935-07-27 to 1935-07-27	1	0

Business Services

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1935-07-29 to 1935-08-10	12	3	1935-08-12 to 1935-09-04	20	-39
1935-09-05 to 1936-03-11	154	149	1936-03-12 to 1936-09-15	157	-31
1936-09-16 to 1937-02-16	124	30	1937-02-17 to 1937-10-19	202	-51
1937-10-20 to 1938-05-06	163	31	1938-05-07 to 1938-05-09	2	-25
1938-05-10 to 1938-07-23	63	30	1938-07-25 to 1938-09-17	47	-35
1938-09-19 to 1938-11-12	45	37	1938-11-14 to 1939-01-26	61	-31
1939-01-27 to 1939-03-10	35	17	1939-03-11 to 1939-04-08	24	-30
1939-04-10 to 1939-06-10	53	19	1939-06-12 to 1939-09-01	70	-41
1939-09-02 to 1940-04-08	178	39	1940-04-09 to 1940-06-10	53	-37
1940-06-11 to 1941-01-10	176	28	1941-01-11 to 1941-12-29	291	-31
1941-12-30 to 1946-06-03	1312	581	1946-06-04 to 1947-05-20	273	-39
1947-05-21 to 1962-03-23	3890	467	1962-03-26 to 1962-10-25	150	-22
1962-10-26 to 1966-02-15	832	103	1966-02-16 to 1966-10-07	163	-30
1966-10-10 to 1968-11-29	516	158	1968-12-02 to 1969-07-29	160	-26
1969-07-30 to 1969-11-10	73	34	1969-11-11 to 1970-05-26	136	-48
1970-05-27 to 1971-04-28	234	61	1971-04-29 to 1971-11-24	147	-20
1971-11-26 to 1972-03-08	72	32	1972-03-09 to 1973-07-09	334	-42
1973-07-10 to 1973-10-09	65	29	1973-10-10 to 1974-09-13	235	-55
1974-09-16 to 1978-09-11	1008	219	1978-09-12 to 1978-10-31	36	-22
1978-11-01 to 1980-02-08	322	52	1980-02-11 to 1980-03-27	33	-24

Business Services

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1980-03-28 to 1981-06-01	296	102	1981-06-02 to 1982-03-15	199	-24
1982-03-16 to 1983-06-22	323	122	1983-06-23 to 1984-02-23	170	-28
1984-02-24 to 1987-10-05	913	137	1987-10-06 to 1987-12-04	43	-37
1987-12-07 to 1989-10-09	466	62	1989-10-10 to 1990-10-29	267	-22
1990-10-30 to 1998-07-16	1949	383	1998-07-17 to 1998-10-08	59	-30
1998-10-09 to 2000-01-03	311	82	2000-01-04 to 2001-04-04	316	-29
2001-04-05 to 2001-06-05	42	19	2001-06-06 to 2001-09-21	72	-27
2001-09-24 to 2001-12-28	68	29	2001-12-31 to 2002-07-23	141	-46
2002-07-24 to 2002-08-22	22	17	2002-08-23 to 2002-10-07	31	-21
2002-10-08 to 2007-07-13	1199	153	2007-07-16 to 2008-11-20	344	-56
2008-11-21 to 2009-01-06	30	24	2009-01-07 to 2009-03-09	42	-21
2009-03-10 to 2011-04-29	541	98	2011-05-02 to 2011-10-03	108	-25
2011-10-04 to 2018-09-14	1749	304	2018-09-17 to 2018-12-24	69	-22
2018-12-26 to 2020-02-19	289	54	2020-02-20 to 2020-03-23	23	-40
2020-03-24 to NA	176	74		NA	NA

Computers

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-10-15	981	561	1929-10-16 to 1929-10-29	12	-46
1929-10-30 to 1929-10-31	2	15	1929-11-04 to 1929-11-13	7	-32
1929-11-14 to 1930-03-11	92	41	1930-03-12 to 1930-12-16	229	-51
1930-12-17 to 1931-02-21	55	38	1931-02-24 to 1931-06-02	83	-36
1931-06-03 to 1931-06-27	22	24	1931-06-29 to 1931-10-05	82	-50
1931-10-06 to 1931-11-09	28	25	1931-11-10 to 1932-02-09	75	-29
1932-02-10 to 1932-03-08	22	22	1932-03-09 to 1932-07-08	101	-48
1932-07-09 to 1932-08-26	42	95	1932-08-27 to 1933-03-01	151	-39
1933-03-02 to 1933-07-18	107	140	1933-07-19 to 1933-07-22	4	-20
1933-07-24 to 1933-08-28	26	16	1933-08-29 to 1933-10-19	42	-27
1933-10-20 to 1934-02-05	89	41	1934-02-06 to 1934-07-26	142	-26
1934-07-27 to 1937-03-06	784	157	1937-03-08 to 1938-03-31	320	-46
1938-04-01 to 1938-11-10	186	50	1938-11-12 to 1940-06-10	475	-40
1940-06-11 to 1941-09-22	388	38	1941-09-23 to 1942-03-16	142	-22
1942-03-17 to 1946-06-03	1249	295	1946-06-04 to 1947-05-19	272	-27
1947-05-20 to 1957-07-08	2704	1191	1957-07-09 to 1957-10-22	75	-26
1957-10-23 to 1961-11-14	1023	355	1961-11-15 to 1962-06-14	146	-47
1962-06-15 to 1966-04-14	965	117	1966-04-15 to 1966-10-07	123	-21
1966-10-10 to 1970-01-15	794	151	1970-01-16 to 1970-08-13	147	-42
1970-08-14 to 1971-04-29	179	59	1971-04-30 to 1971-08-09	70	-20

Computers

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1971-08-10 to 1973-02-13	382	55	1973-02-14 to 1974-09-13	400	-55
1974-09-16 to 1980-01-28	1357	143	1980-01-29 to 1980-04-21	58	-25
1980-04-22 to 1980-11-20	149	47	1980-11-21 to 1981-09-25	213	-26
1981-09-28 to 1983-10-10	516	120	1983-10-11 to 1984-06-15	173	-23
1984-06-18 to 1987-08-21	804	103	1987-08-24 to 1987-12-03	72	-39
1987-12-04 to 1988-07-05	147	25	1988-07-06 to 1989-12-18	369	-23
1989-12-19 to 1990-07-16	144	25	1990-07-17 to 1990-10-16	65	-30
1990-10-17 to 1991-03-07	98	55	1991-03-08 to 1991-12-19	200	-25
1991-12-20 to 1992-02-20	42	24	1992-02-21 to 1993-09-20	400	-22
1993-09-21 to 1996-05-20	674	165	1996-05-21 to 1996-07-23	44	-23
1996-07-24 to 1997-01-21	126	52	1997-01-22 to 1997-04-21	62	-20
1997-04-22 to 1998-09-28	363	94	1998-09-29 to 1998-10-08	8	-20
1998-10-09 to 2000-03-27	369	297	2000-03-28 to 2000-04-14	14	-25
2000-04-17 to 2000-05-01	10	9	2000-05-02 to 2000-05-23	16	-20
2000-05-24 to 2000-09-01	71	39	2000-09-05 to 2001-01-02	83	-51
2001-01-03 to 2001-01-24	15	9	2001-01-25 to 2001-04-04	49	-54
2001-04-05 to 2001-05-22	33	32	2001-05-23 to 2001-10-02	88	-53
2001-10-03 to 2001-12-06	46	52	2001-12-07 to 2002-08-05	165	-45
2002-08-06 to 2002-08-22	13	19	2002-08-23 to 2002-10-08	32	-29
2002-10-09 to 2004-01-16	321	141	2004-01-20 to 2004-08-12	143	-29

Computers

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2004-08-13 to 2007-11-06	815	112	2007-11-07 to 2008-02-07	63	-28
2008-02-08 to 2008-06-05	82	21	2008-06-06 to 2008-11-20	118	-49
2008-11-21 to 2009-01-06	30	18	2009-01-07 to 2009-03-09	42	-23
2009-03-10 to 2011-02-09	486	154	2011-02-10 to 2011-08-19	133	-19
2011-08-22 to 2012-09-19	273	58	2012-09-20 to 2013-04-19	144	-29
2013-04-22 to 2014-12-26	426	47	2014-12-29 to 2016-02-09	281	-30
2016-02-10 to 2018-10-03	668	122	2018-10-04 to 2018-12-24	56	-20
2018-12-26 to 2019-04-16	77	34	2019-04-17 to 2020-03-16	230	-38
2020-03-17 to NA	181	41		NA	NA

Computer Software

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1965-07-01 to 1965-10-11	71	33	1965-10-12 to 1965-11-30	34	-23
1965-12-01 to 1965-12-16	12	22	1965-12-17 to 1966-03-30	72	-23
1966-03-31 to 1966-04-11	7	26	1966-04-12 to 1966-05-17	26	-29
1966-05-18 to 1966-06-22	25	11	1966-06-23 to 1966-10-25	87	-61
1966-10-26 to 1967-05-03	130	197	1967-05-04 to 1967-06-05	22	-26
1967-06-06 to 1967-06-13	6	12	1967-06-14 to 1967-08-10	41	-22
1967-08-11 to 1967-10-25	53	90	1967-10-26 to 1967-11-14	13	-17
1967-11-15 to 1967-12-13	20	43	1967-12-14 to 1968-03-04	54	-53
1968-03-05 to 1968-04-25	36	42	1968-04-26 to 1968-08-30	77	-31
1968-09-03 to 1968-09-09	5	23	1968-09-10 to 1968-11-06	33	-26
1968-11-07 to 1968-12-10	20	15	1968-12-12 to 1969-04-24	89	-38
1969-04-25 to 1969-05-09	11	29	1969-05-12 to 1969-07-31	56	-44
1969-08-01 to 1969-08-21	15	22	1969-08-22 to 1969-10-09	34	-28
1969-10-10 to 1969-10-21	8	64	1969-10-22 to 1970-01-29	69	-58
1970-01-30 to 1970-02-17	13	28	1970-02-18 to 1970-04-22	44	-54
1970-04-23 to 1970-04-30	6	17	1970-05-01 to 1970-05-26	18	-45
1970-05-27 to 1970-06-04	7	16	1970-06-05 to 1970-08-12	48	-44
1970-08-13 to 1970-09-29	33	148	1970-09-30 to 1970-11-18	36	-40
1970-11-19 to 1971-06-02	134	94	1971-06-03 to 1971-08-09	47	-36
1971-08-10 to 1971-09-03	19	21	1971-09-07 to 1971-11-22	55	-52

Computer Software

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1971-11-23 to 1972-04-11	97	88	1972-04-12 to 1972-11-14	151	-65
1972-11-15 to 1972-12-06	15	36	1972-12-07 to 1973-02-06	40	-42
1973-02-07 to 1973-02-22	11	47	1973-02-23 to 1973-02-27	3	-21
1973-02-28 to 1973-03-27	20	12	1973-03-28 to 1973-05-14	33	-56
1973-05-15 to 1973-05-29	10	9	1973-05-30 to 1973-07-10	29	-22
1973-07-11 to 1973-10-12	67	28	1973-10-15 to 1973-12-31	54	-48
1974-01-02 to 1974-03-13	50	49	1974-03-14 to 1974-12-27	201	-69
1974-12-30 to 1975-07-14	136	159	1975-07-15 to 1975-12-29	117	-36
1975-12-30 to 1976-02-23	38	104	1976-02-24 to 1976-06-21	83	-43
1976-06-22 to 1976-07-15	17	21	1976-07-16 to 1976-11-22	90	-40
1976-11-23 to 1978-09-08	453	187	1978-09-11 to 1978-10-31	37	-36
1978-11-01 to 1980-02-13	325	96	1980-02-14 to 1980-03-27	30	-27
1980-03-28 to 1981-06-01	296	196	1981-06-02 to 1981-09-25	82	-25
1981-09-28 to 1981-11-03	27	26	1981-11-04 to 1982-03-08	85	-29
1982-03-09 to 1982-05-07	43	22	1982-05-10 to 1982-08-13	68	-30
1982-08-16 to 1983-06-16	213	203	1983-06-17 to 1984-07-26	281	-59
1984-07-27 to 1985-02-08	137	39	1985-02-11 to 1985-10-08	166	-30
1985-10-09 to 1986-06-03	164	53	1986-06-04 to 1986-09-16	73	-21
1986-09-17 to 1987-10-05	266	125	1987-10-06 to 1987-10-26	15	-45
1987-10-27 to 1988-07-05	174	49	1988-07-06 to 1988-11-22	99	-20

Computer Software

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1988-11-23 to 1990-06-14	393	78	1990-06-15 to 1990-10-16	86	-42
1990-10-17 to 1992-02-12	335	193	1992-02-13 to 1992-07-07	100	-24
1992-07-08 to 1998-07-20	1525	583	1998-07-21 to 1998-08-31	30	-25
1998-09-01 to 1998-09-23	16	16	1998-09-24 to 1998-10-08	11	-20
1998-10-09 to 2000-03-24	368	216	2000-03-27 to 2000-05-23	41	-37
2000-05-24 to 2000-06-21	20	19	2000-06-22 to 2001-01-02	134	-45
2001-01-03 to 2001-01-29	18	20	2001-01-30 to 2001-04-03	45	-40
2001-04-04 to 2001-05-24	36	44	2001-05-25 to 2001-09-21	79	-38
2001-09-24 to 2002-01-09	75	34	2002-01-10 to 2002-08-05	143	-48
2002-08-06 to 2002-08-22	13	18	2002-08-23 to 2002-10-07	31	-24
2002-10-08 to 2007-10-31	1276	146	2007-11-01 to 2008-11-20	267	-51
2008-11-21 to 2018-07-25	2434	597	2018-07-26 to 2018-12-24	105	-21
2018-12-26 to 2020-02-19	289	59	2020-02-20 to 2020-03-16	18	-29
2020-03-17 to NA	181	64		NA	NA

Electronic Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1926-08-09	32	7	1926-08-10 to 1927-04-01	193	-21
1927-04-02 to 1929-05-10	626	167	1929-05-11 to 1929-10-29	142	-54
1929-10-30 to 1929-10-31	2	13	1929-11-04 to 1929-11-13	7	-30
1929-11-14 to 1930-04-04	113	35	1930-04-05 to 1930-06-25	66	-60
1930-06-26 to 1930-07-28	26	26	1930-07-29 to 1930-11-10	86	-38
1930-11-11 to 1931-03-09	97	30	1931-03-10 to 1931-06-02	71	-49
1931-06-03 to 1931-06-27	22	32	1931-06-29 to 1931-10-05	82	-51
1931-10-06 to 1931-11-09	28	27	1931-11-10 to 1931-12-17	32	-36
1931-12-18 to 1932-01-16	23	21	1932-01-18 to 1932-06-01	113	-59
1932-06-02 to 1932-09-07	81	147	1932-09-08 to 1932-09-15	7	-22
1932-09-16 to 1932-09-24	8	17	1932-09-26 to 1932-12-28	77	-42
1932-12-29 to 1933-01-10	9	11	1933-01-11 to 1933-03-01	41	-23
1933-03-02 to 1933-03-16	4	26	1933-03-17 to 1933-04-01	14	-19
1933-04-03 to 1933-06-07	55	163	1933-06-08 to 1933-06-15	7	-20
1933-06-16 to 1933-07-18	27	54	1933-07-19 to 1933-07-22	4	-22
1933-07-24 to 1933-09-14	39	15	1933-09-15 to 1933-11-01	40	-29
1933-11-02 to 1934-02-21	91	109	1934-02-23 to 1934-07-26	129	-29
1934-07-27 to 1937-03-17	793	459	1937-03-18 to 1937-11-23	206	-53
1937-11-24 to 1937-12-21	23	20	1937-12-22 to 1938-01-28	31	-25
1938-01-29 to 1938-03-02	26	26	1938-03-03 to 1938-03-31	25	-26

Electronic Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1938-04-01 to 1938-10-22	171	74	1938-10-24 to 1939-09-01	259	-44
1939-09-02 to 1939-09-22	17	29	1939-09-23 to 1940-05-21	198	-45
1940-05-22 to 1940-11-12	144	57	1940-11-13 to 1941-12-29	339	-24
1941-12-30 to 1946-05-31	1311	421	1946-06-03 to 1946-10-10	93	-35
1946-10-11 to 1947-02-03	93	34	1947-02-04 to 1947-05-19	87	-24
1947-05-20 to 1947-10-22	112	29	1947-10-23 to 1948-02-27	102	-25
1948-02-28 to 1950-06-22	659	101	1950-06-23 to 1950-07-17	16	-23
1950-07-18 to 1955-06-22	1302	355	1955-06-23 to 1955-10-17	81	-21
1955-10-18 to 1957-07-08	432	139	1957-07-09 to 1957-10-22	75	-35
1957-10-23 to 1959-07-21	439	91	1959-07-22 to 1959-09-22	44	-20
1959-09-23 to 1960-06-01	174	43	1960-06-02 to 1960-10-25	102	-25
1960-10-26 to 1961-03-10	93	27	1961-03-13 to 1962-10-23	408	-51
1962-10-24 to 1966-04-20	878	189	1966-04-21 to 1966-10-07	119	-28
1966-10-10 to 1967-10-09	252	57	1967-10-10 to 1968-03-05	100	-20
1968-03-06 to 1968-12-13	172	19	1968-12-16 to 1969-07-29	152	-29
1969-07-30 to 1969-10-24	62	23	1969-10-27 to 1970-07-07	176	-52
1970-07-08 to 1971-04-27	204	81	1971-04-28 to 1971-11-23	147	-26
1971-11-24 to 1972-03-09	74	39	1972-03-10 to 1973-07-02	329	-31
1973-07-03 to 1973-10-12	72	33	1973-10-15 to 1974-12-16	297	-54
1974-12-17 to 1975-07-15	145	100	1975-07-16 to 1975-09-16	44	-19

Electronic Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1975-09-17 to 1978-09-11	754	110	1978-09-12 to 1978-10-31	36	-22
1978-11-01 to 1980-02-13	325	42	1980-02-14 to 1980-03-27	30	-20
1980-03-28 to 1981-05-28	294	74	1981-05-29 to 1982-08-12	306	-29
1982-08-13 to 1983-07-26	241	109	1983-07-27 to 1984-07-24	252	-28
1984-07-25 to 1987-10-05	808	95	1987-10-06 to 1987-12-04	43	-39
1987-12-07 to 1990-07-16	659	50	1990-07-17 to 1990-10-11	62	-32
1990-10-12 to 1995-09-11	1242	481	1995-09-12 to 1996-01-15	87	-27
1996-01-16 to 1996-05-31	96	31	1996-06-03 to 1996-07-24	37	-19
1996-07-25 to 1997-08-06	262	101	1997-08-07 to 1997-12-12	90	-25
1997-12-15 to 1998-07-20	149	31	1998-07-21 to 1998-10-08	57	-26
1998-10-09 to 2000-03-27	369	315	2000-03-28 to 2000-04-14	14	-26
2000-04-17 to 2000-07-17	63	22	2000-07-18 to 2000-11-30	96	-49
2000-12-01 to 2000-12-11	7	21	2000-12-12 to 2001-01-02	14	-22
2001-01-03 to 2001-01-24	15	8	2001-01-25 to 2001-04-04	49	-45
2001-04-05 to 2001-05-21	32	33	2001-05-22 to 2001-10-02	89	-45
2001-10-03 to 2001-12-05	45	48	2001-12-06 to 2002-02-28	57	-23
2002-03-01 to 2002-03-08	6	13	2002-03-11 to 2002-08-05	103	-52
2002-08-06 to 2002-08-21	12	16	2002-08-22 to 2002-10-09	34	-34
2002-10-10 to 2002-12-02	37	49	2002-12-03 to 2003-02-07	46	-21
2003-02-10 to 2004-01-20	238	105	2004-01-21 to 2004-08-12	142	-28

Electronic Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2004-08-13 to 2006-05-08	437	41	2006-05-09 to 2006-07-21	52	-22
2006-07-24 to 2007-07-17	247	32	2007-07-18 to 2008-01-22	130	-23
2008-01-23 to 2008-05-19	82	20	2008-05-20 to 2008-11-20	130	-54
2008-11-21 to 2009-01-06	30	26	2009-01-07 to 2009-03-09	42	-17
2009-03-10 to 2011-02-18	493	108	2011-02-22 to 2011-10-03	156	-23
2011-10-04 to 2015-05-27	916	144	2015-05-28 to 2016-02-11	180	-23
2016-02-12 to 2018-10-03	666	135	2018-10-04 to 2019-01-03	62	-28
2019-01-04 to 2020-02-19	283	85	2020-02-20 to 2020-03-20	22	-30
2020-03-23 to NA	177	96		NA	NA

Measuring and Control Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-02 to 1929-10-08	975	175	1929-10-09 to 1929-10-29	17	-32
1929-10-30 to 1929-10-31	2	9	1929-11-04 to 1929-11-13	7	-21
1929-11-14 to 1930-04-25	129	59	1930-04-26 to 1930-06-24	49	-28
1930-06-25 to 1930-09-06	60	21	1930-09-08 to 1930-12-16	83	-33
1930-12-17 to 1931-02-24	56	24	1931-02-25 to 1931-06-02	82	-31
1931-06-03 to 1931-06-27	22	28	1931-06-29 to 1931-10-05	82	-37
1931-10-06 to 1931-11-07	27	6	1931-11-09 to 1932-02-10	77	-38
1932-02-11 to 1932-03-05	19	16	1932-03-07 to 1932-07-07	102	-55
1932-07-08 to 1932-08-08	27	74	1932-08-09 to 1932-08-12	4	-21
1932-08-13 to 1932-09-07	21	30	1932-09-08 to 1932-10-10	28	-21
1932-10-11 to 1933-03-16	118	25	1933-03-17 to 1933-04-04	16	-21
1933-04-05 to 1933-07-14	84	80	1933-07-15 to 1933-07-22	7	-22
1933-07-24 to 1933-09-16	41	11	1933-09-18 to 1933-10-21	29	-21
1933-10-23 to 1937-08-16	1147	215	1937-08-17 to 1938-03-31	186	-36
1938-04-01 to 1939-01-04	229	52	1939-01-05 to 1939-04-25	92	-23
1939-04-26 to 1939-08-03	84	22	1939-08-04 to 1940-07-05	277	-29
1940-07-06 to 1941-09-24	369	30	1941-09-25 to 1942-04-24	173	-22
1942-04-25 to 1946-04-23	1184	176	1946-04-24 to 1946-10-09	123	-23
1946-10-10 to 1947-03-04	117	25	1947-03-05 to 1948-02-10	265	-19
1948-02-11 to 1957-06-18	2490	522	1957-06-19 to 1957-10-22	88	-19

Measuring and Control Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1957-10-23 to 1960-06-09	663	236	1960-06-10 to 1960-10-25	96	-25
1960-10-26 to 1961-05-04	131	19	1961-05-05 to 1962-06-22	285	-33
1962-06-25 to 1966-04-13	958	211	1966-04-14 to 1966-10-07	124	-34
1966-10-10 to 1967-09-25	242	92	1967-09-26 to 1968-03-04	109	-23
1968-03-05 to 1968-12-10	171	49	1968-12-12 to 1969-07-29	154	-23
1969-07-30 to 1969-11-07	72	24	1969-11-10 to 1970-05-25	136	-50
1970-05-26 to 1970-06-03	7	19	1970-06-04 to 1970-07-07	23	-22
1970-07-08 to 1971-03-16	175	66	1971-03-17 to 1971-11-23	176	-24
1971-11-24 to 1973-01-11	285	69	1973-01-12 to 1973-07-06	121	-28
1973-07-09 to 1973-10-26	79	38	1973-10-29 to 1974-02-13	75	-27
1974-02-14 to 1974-03-14	20	20	1974-03-15 to 1974-10-03	141	-43
1974-10-04 to 1974-10-14	7	20	1974-10-15 to 1974-12-20	48	-19
1974-12-23 to 1975-06-30	131	104	1975-07-01 to 1975-09-16	54	-22
1975-09-17 to 1976-07-14	209	39	1976-07-15 to 1977-02-10	147	-23
1977-02-11 to 1978-09-12	399	54	1978-09-13 to 1978-10-31	35	-22
1978-11-01 to 1980-02-13	325	69	1980-02-14 to 1980-04-21	46	-23
1980-04-22 to 1981-06-01	280	84	1981-06-02 to 1982-03-08	194	-32
1982-03-09 to 1983-06-24	330	136	1983-06-27 to 1984-07-24	273	-30
1984-07-25 to 1984-08-10	13	22	1984-08-13 to 1985-10-10	294	-24
1985-10-11 to 1987-10-05	501	105	1987-10-06 to 1987-10-26	15	-42

Measuring and Control Equipment

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1987-10-27 to 1988-03-16	98	47	1988-03-17 to 1988-11-22	175	-23
1988-11-23 to 1989-08-10	180	26	1989-08-11 to 1990-10-11	296	-32
1990-10-12 to 1998-04-15	1897	433	1998-04-16 to 1998-10-08	123	-31
1998-10-09 to 2000-03-06	354	179	2000-03-07 to 2000-05-26	58	-21
2000-05-30 to 2000-07-17	34	23	2000-07-18 to 2000-08-03	13	-20
2000-08-04 to 2000-09-01	21	21	2000-09-05 to 2001-04-04	147	-51
2001-04-05 to 2001-05-22	33	33	2001-05-23 to 2001-09-21	81	-38
2001-09-24 to 2002-01-04	72	40	2002-01-07 to 2002-10-09	192	-53
2002-10-10 to 2002-11-27	35	37	2002-11-29 to 2003-02-07	48	-22
2003-02-10 to 2004-02-11	254	97	2004-02-12 to 2004-08-12	126	-25
2004-08-13 to 2007-10-23	805	87	2007-10-24 to 2008-10-27	255	-45
2008-10-28 to 2008-11-04	6	15	2008-11-05 to 2008-11-20	12	-24
2008-11-21 to 2009-02-06	52	20	2009-02-09 to 2009-03-09	20	-22
2009-03-10 to 2011-07-07	588	158	2011-07-08 to 2011-10-03	61	-31
2011-10-04 to 2018-09-21	1754	330	2018-09-24 to 2018-12-24	64	-20
2018-12-26 to 2020-01-17	268	47	2020-01-21 to 2020-03-23	44	-33
2020-03-24 to NA	176	66		NA	NA

Business Supplies

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1929-07-01 to 1929-09-04	54	8	1929-09-05 to 1929-10-29	46	-43
1929-10-30 to 1929-10-31	2	18	1929-11-04 to 1929-11-13	7	-21
1929-11-14 to 1930-03-10	91	67	1930-03-11 to 1930-05-07	48	-51
1930-05-08 to 1930-05-16	8	12	1930-05-17 to 1930-07-03	39	-71
1930-07-07 to 1930-07-19	12	56	1930-07-21 to 1930-08-02	12	-21
1930-08-04 to 1930-08-26	20	21	1930-08-27 to 1930-10-18	43	-35
1930-10-20 to 1930-10-28	8	24	1930-10-29 to 1930-12-16	40	-72
1930-12-17 to 1931-01-15	24	48	1931-01-16 to 1931-01-21	5	-6
1931-01-22 to 1931-03-02	32	131	1931-03-03 to 1931-03-13	10	-18
1931-03-14 to 1931-03-21	7	22	1931-03-23 to 1931-04-24	28	-54
1931-04-25 to 1931-05-01	6	30	1931-05-02 to 1931-06-02	26	-38
1931-06-03 to 1931-06-29	23	48	1931-06-30 to 1931-10-05	81	-60
1931-10-06 to 1931-10-09	4	20	1931-10-10 to 1931-11-04	20	-14
1931-11-05 to 1931-11-17	11	26	1931-11-18 to 1931-12-04	14	-28
1931-12-05 to 1931-12-09	4	0	1931-12-10 to 1931-12-17	7	-12
1931-12-18 to 1931-12-18	1	0	1931-12-19 to 1931-12-30	8	-26
1931-12-31 to 1932-01-18	15	50	1932-01-19 to 1932-01-26	7	-27
1932-01-27 to 1932-03-22	46	20	1932-03-23 to 1932-04-07	13	-45
1932-04-08 to 1932-04-11	3	21	1932-04-12 to 1932-04-15	4	-17
1932-04-16 to 1932-04-19	3	15	1932-04-20 to 1932-06-01	36	-50

Business Supplies

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1932-06-02 to 1932-06-08	6	93	1932-06-09 to 1932-06-24	14	-70
1932-06-25 to 1932-07-20	20	71	1932-07-21 to 1932-08-04	13	-25
1932-08-05 to 1932-08-23	16	389	1932-08-24 to 1932-10-10	40	-62
1932-10-11 to 1932-10-15	4	15	1932-10-17 to 1932-10-18	2	-6
1932-10-19 to 1932-10-19	1	0	1932-10-20 to 1932-12-14	46	-33
1932-12-15 to 1932-12-15	1	0	1932-12-16 to 1932-12-19	3	-20
1932-12-20 to 1932-12-21	2	11	1932-12-22 to 1933-01-16	19	-50
1933-01-17 to 1933-01-17	1	0	1933-01-18 to 1933-03-15	38	-47
1933-03-16 to 1933-03-20	4	57	1933-03-21 to 1933-04-06	15	-55
1933-04-07 to 1933-04-22	13	35	1933-04-24 to 1933-04-25	2	-39
1933-04-26 to 1933-04-27	2	4	1933-04-28 to 1933-04-28	1	0
1933-04-29 to 1933-05-18	17	260	1933-05-19 to 1933-06-16	24	-26
1933-06-17 to 1933-06-21	4	22	1933-06-22 to 1933-06-23	2	-6
1933-06-24 to 1933-07-03	8	33	1933-07-05 to 1933-07-21	15	-45
1933-07-22 to 1933-07-25	3	38	1933-07-26 to 1933-09-15	38	-36
1933-09-16 to 1933-09-19	3	8	1933-09-20 to 1933-09-21	2	-5
1933-09-22 to 1933-09-25	3	30	1933-09-26 to 1933-10-21	22	-41
1933-10-23 to 1933-10-23	1	0	1933-10-24 to 1933-11-08	13	-37
1933-11-09 to 1933-11-23	13	12	1933-11-24 to 1933-11-24	1	0
1933-11-25 to 1933-11-25	1	0	1933-11-27 to 1933-12-05	7	-18

Business Supplies

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1933-12-06 to 1933-12-12	6	62	1933-12-13 to 1933-12-15	3	-20
1933-12-16 to 1934-01-22	30	40	1934-01-23 to 1934-01-27	5	-21
1934-01-29 to 1934-02-09	11	48	1934-02-10 to 1934-02-28	14	-23
1934-03-01 to 1934-03-12	10	58	1934-03-13 to 1934-03-28	14	-16
1934-03-29 to 1934-04-13	13	32	1934-04-14 to 1934-04-26	11	-28
1934-04-27 to 1934-04-27	1	0	1934-04-28 to 1934-05-15	15	-28
1934-05-16 to 1934-05-18	3	25	1934-05-19 to 1934-07-26	57	-57
1934-07-27 to 1934-07-28	2	33	1934-07-30 to 1934-08-04	6	-25
1934-08-06 to 1934-09-05	26	33	1934-09-06 to 1934-09-21	14	-41
1934-09-22 to 1934-09-24	2	17	1934-09-25 to 1934-10-11	15	-29
1934-10-13 to 1934-10-25	11	25	1934-10-26 to 1934-10-27	2	-14
1934-10-29 to 1934-11-07	8	204	1934-11-08 to 1934-11-16	7	-9
1934-11-17 to 1934-11-20	3	22	1934-11-21 to 1934-12-04	11	-29
1934-12-05 to 1934-12-15	10	44	1934-12-17 to 1935-01-16	25	-22
1935-01-17 to 1935-01-18	2	6	1935-01-19 to 1935-01-28	8	-29
1935-01-29 to 1935-02-04	6	9	1935-02-05 to 1935-02-07	3	-16
1935-02-08 to 1935-02-11	3	9	1935-02-13 to 1935-02-14	2	-18
1935-02-15 to 1935-02-19	4	16	1935-02-20 to 1935-02-26	5	-27
1935-02-27 to 1935-03-26	24	24	1935-03-27 to 1935-04-04	8	-13
1935-04-05 to 1935-04-09	4	34	1935-04-10 to 1935-04-29	16	-17

Business Supplies

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1935-04-30 to 1935-05-02	3	35	1935-05-03 to 1935-05-10	7	-29
1935-05-11 to 1935-05-21	9	137	1935-05-22 to 1935-06-10	16	-22
1935-06-11 to 1935-06-18	7	6	1935-06-19 to 1935-07-16	23	-25
1935-07-17 to 1935-08-05	17	33	1935-08-06 to 1935-08-29	21	-18
1935-08-30 to 1935-09-30	26	60	1935-10-01 to 1935-12-02	50	-35
1935-12-03 to 1936-02-18	64	87	1936-02-19 to 1936-04-29	59	-34
1936-04-30 to 1937-03-10	258	130	1937-03-11 to 1937-10-18	183	-60
1937-10-19 to 1937-11-13	21	31	1937-11-15 to 1937-11-23	8	-19
1937-11-24 to 1938-01-08	37	27	1938-01-10 to 1938-03-25	63	-35
1938-03-26 to 1938-11-09	190	132	1938-11-10 to 1939-06-29	191	-43
1939-06-30 to 1939-07-24	20	21	1939-07-25 to 1939-08-24	27	-20
1939-08-25 to 1940-05-03	207	62	1940-05-04 to 1940-05-24	18	-45
1940-05-25 to 1940-11-14	143	29	1940-11-15 to 1941-05-05	141	-27
1941-05-06 to 1941-09-17	113	31	1941-09-18 to 1942-04-28	182	-28
1942-04-29 to 1946-06-03	1213	323	1946-06-04 to 1946-09-10	69	-35
1946-09-11 to 1946-12-31	88	29	1947-01-02 to 1947-05-17	114	-32
1947-05-19 to 1948-06-14	302	65	1948-06-15 to 1949-06-17	286	-36
1949-06-20 to 1951-12-31	710	178	1952-01-02 to 1953-09-14	449	-31
1953-09-15 to 1956-08-03	727	278	1956-08-06 to 1957-11-14	322	-47
1957-11-15 to 1959-07-10	416	105	1959-07-13 to 1959-10-14	67	-20

Business Supplies

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1959-10-15 to 1959-12-17	44	19	1959-12-18 to 1960-10-04	201	-38
1960-10-05 to 1962-04-23	388	58	1962-04-24 to 1962-06-14	37	-29
1962-06-15 to 1966-01-24	909	117	1966-01-25 to 1966-10-07	179	-25
1966-10-10 to 1969-04-30	615	98	1969-05-01 to 1970-05-26	270	-34
1970-05-27 to 1971-04-29	235	31	1971-04-30 to 1971-11-23	145	-26
1971-11-24 to 1973-10-12	475	69	1973-10-15 to 1974-12-23	302	-40
1974-12-24 to 1976-02-24	295	135	1976-02-25 to 1978-03-06	512	-26
1978-03-07 to 1980-02-13	492	60	1980-02-14 to 1980-04-21	46	-23
1980-04-22 to 1981-03-25	234	62	1981-03-26 to 1982-08-09	347	-29
1982-08-10 to 1987-10-05	1304	437	1987-10-06 to 1987-10-26	15	-38
1987-10-27 to 1990-07-17	688	76	1990-07-18 to 1990-10-17	65	-21
1990-10-18 to 1998-04-21	1897	252	1998-04-22 to 1998-09-10	99	-30
1998-09-11 to 2000-01-10	336	52	2000-01-11 to 2000-03-07	39	-26
2000-03-08 to 2001-03-08	253	34	2001-03-09 to 2001-09-21	133	-20
2001-09-24 to 2002-05-15	162	35	2002-05-16 to 2002-10-09	102	-25
2002-10-10 to 2007-07-19	1201	91	2007-07-20 to 2009-03-06	411	-63
2009-03-09 to 2011-07-07	589	187	2011-07-08 to 2011-10-03	61	-24
2011-10-04 to 2018-01-26	1589	224	2018-01-29 to 2018-12-24	229	-26
2018-12-26 to 2019-04-22	80	19	2019-04-23 to 2020-03-23	232	-36
2020-03-24 to NA	176	36		NA	NA

Shipping Containers

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1926-08-09	32	13	1926-08-10 to 1927-03-31	192	-21
1927-04-01 to 1929-10-10	754	231	1929-10-11 to 1929-11-13	24	-45
1929-11-14 to 1930-04-15	122	42	1930-04-16 to 1930-12-16	199	-37
1930-12-17 to 1931-03-25	81	20	1931-03-26 to 1931-06-02	57	-27
1931-06-03 to 1931-06-27	22	16	1931-06-29 to 1931-10-05	82	-36
1931-10-06 to 1931-11-09	28	14	1931-11-10 to 1932-01-04	44	-31
1932-01-05 to 1932-03-05	51	28	1932-03-07 to 1932-06-25	94	-53
1932-06-27 to 1932-09-07	60	94	1932-09-08 to 1932-10-10	28	-20
1932-10-11 to 1935-11-19	920	294	1935-11-20 to 1937-12-28	631	-44
1937-12-29 to 1938-10-27	252	42	1938-10-28 to 1939-04-11	134	-23
1939-04-12 to 1940-04-17	307	48	1940-04-18 to 1940-06-10	45	-27
1940-06-11 to 1940-11-09	127	17	1940-11-12 to 1941-12-29	340	-32
1941-12-30 to 1946-06-10	1317	216	1946-06-11 to 1946-10-09	86	-25
1946-10-10 to 1956-08-03	2654	878	1956-08-06 to 1957-10-22	306	-24
1957-10-23 to 1961-12-05	1037	96	1961-12-06 to 1962-10-23	223	-32
1962-10-24 to 1969-05-16	1624	184	1969-05-19 to 1970-07-07	287	-34
1970-07-08 to 1973-09-26	814	84	1973-09-27 to 1974-10-03	258	-42
1974-10-04 to 1974-10-31	20	23	1974-11-01 to 1974-12-06	25	-19
1974-12-09 to 1987-10-02	3240	868	1987-10-05 to 1987-10-26	16	-35
1987-10-27 to 1990-05-23	651	106	1990-05-24 to 1990-09-24	85	-22

Shipping Containers

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1990-09-25 to 1993-01-06	578	98	1993-01-07 to 1993-10-20	200	-22
1993-10-21 to 1995-07-06	431	37	1995-07-07 to 1995-11-01	83	-23
1995-11-02 to 1997-08-06	445	121	1997-08-07 to 1998-01-28	120	-26
1998-01-29 to 1998-03-26	40	19	1998-03-27 to 1998-10-08	136	-41
1998-10-09 to 1999-07-12	189	72	1999-07-13 to 2000-11-29	352	-55
2000-11-30 to 2002-04-16	341	114	2002-04-17 to 2002-07-23	68	-31
2002-07-24 to 2003-01-13	120	21	2003-01-14 to 2003-03-11	39	-20
2003-03-12 to 2008-05-30	1315	224	2008-06-02 to 2008-10-27	104	-49
2008-10-28 to 2008-11-04	6	15	2008-11-05 to 2008-11-20	12	-23
2008-11-21 to 2009-01-02	28	31	2009-01-05 to 2009-03-09	44	-26
2009-03-10 to 2011-05-31	562	133	2011-06-01 to 2011-10-03	87	-30
2011-10-04 to 2015-02-18	848	126	2015-02-19 to 2016-02-11	248	-24
2016-02-12 to 2018-01-25	492	70	2018-01-26 to 2018-12-24	230	-27
2018-12-26 to 2020-02-06	281	47	2020-02-07 to 2020-03-23	31	-34
2020-03-24 to NA	176	61		NA	NA

Transportation

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-09-03	946	102	1929-09-04 to 1929-11-13	56	-31
1929-11-14 to 1930-03-29	108	20	1930-03-31 to 1930-12-16	213	-40
1930-12-17 to 1931-02-24	56	22	1931-02-25 to 1931-06-02	82	-37
1931-06-03 to 1931-06-27	22	24	1931-06-29 to 1931-10-05	82	-45
1931-10-06 to 1931-10-20	12	13	1931-10-21 to 1931-12-17	48	-41
1931-12-18 to 1932-01-14	21	15	1932-01-15 to 1932-02-09	22	-20
1932-02-10 to 1932-02-16	5	21	1932-02-17 to 1932-06-01	88	-62
1932-06-02 to 1932-06-04	3	18	1932-06-06 to 1932-07-08	27	-20
1932-07-09 to 1932-09-03	49	194	1932-09-06 to 1932-09-14	8	-22
1932-09-15 to 1932-09-24	9	20	1932-09-26 to 1932-10-10	13	-31
1932-10-11 to 1932-11-11	26	19	1932-11-12 to 1932-12-23	35	-20
1932-12-24 to 1933-07-07	151	154	1933-07-08 to 1933-07-21	12	-21
1933-07-22 to 1933-08-29	28	20	1933-08-30 to 1933-10-19	41	-35
1933-10-20 to 1934-02-05	89	51	1934-02-06 to 1935-03-12	329	-45
1935-03-13 to 1937-03-17	606	155	1937-03-18 to 1938-03-31	311	-67
1938-04-01 to 1938-07-23	95	53	1938-07-25 to 1938-09-27	55	-24
1938-09-28 to 1939-01-04	79	40	1939-01-05 to 1939-04-08	78	-27
1939-04-10 to 1939-09-27	144	50	1939-09-28 to 1940-05-21	194	-33
1940-05-22 to 1946-06-13	1803	359	1946-06-14 to 1947-05-17	263	-41
1947-05-19 to 1948-07-14	323	42	1948-07-15 to 1949-06-13	261	-23

Transportation

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1949-06-14 to 1956-05-09	1830	365	1956-05-10 to 1957-12-30	412	-34
1957-12-31 to 1959-07-08	384	92	1959-07-09 to 1960-10-25	329	-25
1960-10-26 to 1962-02-15	328	37	1962-02-16 to 1962-06-27	91	-22
1962-06-28 to 1966-04-14	956	226	1966-04-15 to 1966-10-07	123	-31
1966-10-10 to 1967-08-04	207	46	1967-08-07 to 1968-03-25	159	-25
1968-03-26 to 1968-11-29	150	39	1968-12-02 to 1970-07-07	398	-59
1970-07-08 to 1972-04-12	448	154	1972-04-13 to 1973-07-06	309	-46
1973-07-09 to 1973-10-12	69	22	1973-10-15 to 1973-12-05	37	-22
1973-12-06 to 1974-03-11	65	25	1974-03-12 to 1974-09-13	130	-37
1974-09-16 to 1978-09-08	1007	167	1978-09-11 to 1978-11-14	47	-26
1978-11-15 to 1980-02-08	312	40	1980-02-11 to 1980-03-27	33	-23
1980-03-28 to 1981-05-28	294	95	1981-05-29 to 1981-09-25	84	-27
1981-09-28 to 1981-12-04	49	18	1981-12-07 to 1982-08-12	173	-24
1982-08-13 to 1984-01-19	364	115	1984-01-20 to 1984-07-25	130	-24
1984-07-26 to 1987-08-14	772	125	1987-08-17 to 1987-12-04	78	-39
1987-12-07 to 1989-08-30	439	109	1989-08-31 to 1990-10-16	285	-34
1990-10-17 to 1994-02-02	835	139	1994-02-03 to 1994-12-13	217	-23
1994-12-14 to 1998-04-17	844	142	1998-04-20 to 1998-10-08	121	-35
1998-10-09 to 1999-05-13	149	51	1999-05-14 to 2000-03-07	206	-34
2000-03-08 to 2001-05-21	304	42	2001-05-22 to 2001-09-20	81	-31

Transportation

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2001-09-21 to 2002-03-04	112	49	2002-03-05 to 2003-03-11	257	-28
2003-03-12 to 2007-07-19	1097	136	2007-07-20 to 2008-01-08	119	-20
2008-01-09 to 2008-06-05	103	23	2008-06-06 to 2008-10-27	100	-32
2008-10-28 to 2008-11-04	6	13	2008-11-05 to 2008-11-20	12	-21
2008-11-21 to 2009-01-06	30	15	2009-01-07 to 2009-03-09	42	-36
2009-03-10 to 2011-07-07	588	158	2011-07-08 to 2011-10-03	61	-24
2011-10-04 to 2015-01-22	830	156	2015-01-23 to 2016-01-25	253	-26
2016-01-26 to 2018-09-21	671	85	2018-09-24 to 2018-12-24	64	-24
2018-12-26 to 2019-04-24	82	23	2019-04-25 to 2020-03-18	227	-39
2020-03-19 to NA	179	85		NA	NA

Wholesale

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1926-07-06	3	1	1926-07-07 to 1926-07-30	21	-31
1926-07-31 to 1926-08-04	4	25	1926-08-05 to 1926-10-23	66	-38
1926-10-25 to 1926-12-15	43	39	1926-12-16 to 1927-03-22	79	-52
1927-03-23 to 1927-03-26	4	46	1927-03-28 to 1927-04-08	11	-27
1927-04-09 to 1927-04-20	9	23	1927-04-21 to 1927-08-12	95	-26
1927-08-13 to 1927-10-03	43	17	1927-10-04 to 1927-10-29	22	-25
1927-10-31 to 1928-11-27	319	43	1928-11-28 to 1929-10-29	274	-59
1929-10-30 to 1929-11-04	3	16	1929-11-06 to 1930-03-13	100	-19
1930-03-14 to 1930-04-12	26	28	1930-04-14 to 1932-05-31	638	-91
1932-06-01 to 1932-06-16	14	9	1932-06-17 to 1932-07-08	17	-24
1932-07-09 to 1932-09-09	53	231	1932-09-10 to 1932-09-12	2	-19
1932-09-13 to 1932-09-13	1	0	1932-09-14 to 1932-09-14	1	0
1932-09-15 to 1932-09-24	9	9	1932-09-26 to 1932-11-02	32	-33
1932-11-03 to 1932-11-16	11	91	1932-11-17 to 1932-12-21	29	-32
1932-12-22 to 1933-03-15	58	21	1933-03-16 to 1933-04-03	16	-30
1933-04-04 to 1933-07-17	87	336	1933-07-18 to 1933-07-22	5	-38
1933-07-24 to 1933-08-25	25	7	1933-08-28 to 1933-10-21	45	-35
1933-10-23 to 1933-11-20	24	11	1933-11-21 to 1933-12-20	25	-27
1933-12-21 to 1934-04-23	101	67	1934-04-24 to 1934-07-26	79	-32
1934-07-27 to 1934-12-06	109	47	1934-12-07 to 1935-03-14	80	-26

Wholesale

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1935-03-15 to 1937-03-16	603	139	1937-03-17 to 1937-10-19	179	-51
1937-10-20 to 1937-10-30	10	12	1937-11-01 to 1937-12-29	47	-28
1937-12-30 to 1938-01-11	10	18	1938-01-12 to 1938-03-31	66	-27
1938-04-01 to 1938-07-25	96	49	1938-07-26 to 1938-09-27	54	-21
1938-09-28 to 1938-11-17	41	27	1938-11-18 to 1939-04-11	118	-26
1939-04-12 to 1939-07-25	88	24	1939-07-26 to 1940-05-24	251	-39
1940-05-25 to 1940-11-07	138	33	1940-11-08 to 1941-05-27	165	-23
1941-05-28 to 1941-09-22	98	35	1941-09-23 to 1941-12-10	64	-30
1941-12-11 to 1946-07-10	1353	611	1946-07-11 to 1947-05-19	246	-36
1947-05-20 to 1948-06-15	302	34	1948-06-16 to 1949-06-13	281	-20
1949-06-14 to 1951-09-28	640	121	1951-10-01 to 1953-09-16	525	-24
1953-09-17 to 1957-07-12	960	102	1957-07-15 to 1957-10-22	71	-27
1957-10-23 to 1962-02-12	1084	118	1962-02-13 to 1962-06-27	94	-32
1962-06-28 to 1966-04-26	964	128	1966-04-27 to 1966-10-07	115	-31
1966-10-10 to 1968-01-18	321	155	1968-01-19 to 1968-03-04	30	-20
1968-03-05 to 1968-12-09	170	56	1968-12-10 to 1969-07-29	155	-40
1969-07-30 to 1969-11-07	72	23	1969-11-10 to 1970-05-26	137	-52
1970-05-27 to 1972-04-18	481	116	1972-04-19 to 1973-07-06	305	-41
1973-07-09 to 1973-10-12	69	35	1973-10-15 to 1973-12-13	43	-28
1973-12-14 to 1974-03-15	63	21	1974-03-18 to 1974-10-04	141	-35

Wholesale

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1974-10-07 to 1978-09-12	994	187	1978-09-13 to 1978-10-31	35	-21
1978-11-01 to 1980-02-13	325	60	1980-02-14 to 1980-03-27	30	-24
1980-03-28 to 1981-05-27	293	71	1981-05-28 to 1982-08-12	307	-21
1982-08-13 to 1983-06-24	220	131	1983-06-27 to 1984-05-30	235	-23
1984-05-31 to 1987-08-13	810	145	1987-08-14 to 1987-10-28	53	-38
1987-10-29 to 1990-07-16	685	64	1990-07-17 to 1990-10-29	74	-22
1990-10-30 to 1998-04-20	1888	258	1998-04-21 to 1998-08-31	93	-24
1998-09-01 to 1999-07-16	220	26	1999-07-19 to 1999-10-26	71	-21
1999-10-27 to 2000-12-28	297	62	2000-12-29 to 2002-07-23	389	-42
2002-07-24 to 2002-08-22	22	17	2002-08-23 to 2003-03-12	138	-19
2003-03-13 to 2007-06-04	1064	127	2007-06-05 to 2008-11-20	372	-53
2008-11-21 to 2009-02-06	52	25	2009-02-09 to 2009-03-09	20	-21
2009-03-10 to 2011-07-07	588	125	2011-07-08 to 2011-10-03	61	-21
2011-10-04 to 2015-05-18	910	129	2015-05-19 to 2016-02-11	186	-20
2016-02-12 to 2018-01-26	493	42	2018-01-29 to 2018-12-24	229	-21
2018-12-26 to 2020-01-16	267	38	2020-01-17 to 2020-03-23	45	-40
2020-03-24 to NA	176	64		NA	NA

Retail

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1928-11-30	721	136	1928-12-01 to 1929-11-13	281	-49
1929-11-14 to 1929-12-07	16	21	1929-12-09 to 1930-12-29	315	-45
1930-12-30 to 1931-03-20	67	31	1931-03-21 to 1931-10-05	165	-38
1931-10-06 to 1931-11-09	28	18	1931-11-10 to 1931-12-17	32	-30
1931-12-18 to 1932-03-05	63	12	1932-03-07 to 1932-07-08	103	-50
1932-07-09 to 1932-09-07	51	87	1932-09-08 to 1933-02-25	139	-33
1933-02-27 to 1933-07-17	109	129	1933-07-18 to 1933-10-21	75	-29
1933-10-23 to 1934-04-21	149	55	1934-04-23 to 1934-07-26	80	-21
1934-07-27 to 1936-11-18	697	105	1936-11-19 to 1937-12-28	330	-46
1937-12-29 to 1938-02-23	46	20	1938-02-24 to 1938-03-31	31	-22
1938-04-01 to 1940-04-06	607	82	1940-04-08 to 1940-05-21	38	-29
1940-05-22 to 1941-09-17	400	28	1941-09-18 to 1942-04-29	183	-31
1942-04-30 to 1946-05-28	1209	384	1946-05-29 to 1947-05-19	275	-35
1947-05-20 to 1961-11-17	3805	809	1961-11-20 to 1962-10-23	234	-32
1962-10-24 to 1965-05-13	642	105	1965-05-14 to 1966-12-30	412	-29
1967-01-03 to 1969-11-07	691	95	1969-11-10 to 1970-05-26	137	-34
1970-05-27 to 1973-01-11	665	113	1973-01-12 to 1974-10-04	437	-60
1974-10-07 to 1976-03-24	371	101	1976-03-25 to 1977-05-31	299	-20
1977-06-01 to 1978-09-12	324	25	1978-09-13 to 1980-03-27	390	-23
1980-03-28 to 1983-06-16	814	273	1983-06-17 to 1984-05-29	240	-25

Retail

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1984-05-30 to 1987-08-25	819	190	1987-08-26 to 1987-12-04	71	-44
1987-12-07 to 1990-07-16	659	134	1990-07-17 to 1990-10-11	62	-33
1990-10-12 to 1998-07-17	1962	438	1998-07-20 to 1998-10-08	58	-26
1998-10-09 to 1999-12-31	310	70	2000-01-03 to 2000-02-24	37	-22
2000-02-25 to 2000-04-11	33	28	2000-04-12 to 2000-10-12	128	-29
2000-10-13 to 2001-05-21	151	28	2001-05-22 to 2001-09-21	82	-26
2001-09-24 to 2002-03-19	122	35	2002-03-20 to 2003-03-11	246	-34
2003-03-12 to 2007-06-04	1065	97	2007-06-05 to 2008-11-20	372	-43
2008-11-21 to 2018-09-04	2462	547	2018-09-05 to 2018-12-24	77	-23
2018-12-26 to 2020-02-20	290	38	2020-02-21 to 2020-03-16	17	-23
2020-03-17 to NA	181	60		NA	NA

Restaurants, Hotels, Motels

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-09-21	962	139	1929-09-23 to 1929-11-13	40	-44
1929-11-14 to 1930-04-21	125	38	1930-04-22 to 1930-12-16	196	-45
1930-12-17 to 1931-02-21	55	22	1931-02-24 to 1931-10-05	187	-51
1931-10-06 to 1931-11-09	28	25	1931-11-10 to 1932-02-09	75	-38
1932-02-10 to 1932-03-08	22	27	1932-03-09 to 1932-07-08	101	-51
1932-07-09 to 1932-09-10	54	81	1932-09-12 to 1933-03-03	141	-37
1933-03-15 to 1933-07-08	97	58	1933-07-10 to 1933-11-02	92	-40
1933-11-03 to 1934-03-12	105	59	1934-03-13 to 1934-07-26	114	-39
1934-07-27 to 1935-01-07	134	22	1935-01-08 to 1935-06-08	127	-21
1935-06-10 to 1937-02-11	505	172	1937-02-13 to 1937-10-19	205	-48
1937-10-20 to 1937-11-01	11	13	1937-11-03 to 1938-03-29	120	-28
1938-03-30 to 1938-11-17	193	57	1938-11-18 to 1939-09-02	240	-30
1939-09-05 to 1940-04-15	183	26	1940-04-16 to 1940-06-11	48	-26
1940-06-12 to 1941-09-18	384	31	1941-09-19 to 1941-12-19	75	-20
1941-12-20 to 1946-04-10	1277	574	1946-04-11 to 1947-05-27	321	-37
1947-05-28 to 1947-07-14	32	20	1947-07-15 to 1949-02-08	444	-20
1949-02-09 to 1956-07-24	1982	341	1956-07-25 to 1957-10-22	314	-22
1957-10-23 to 1961-05-09	893	204	1961-05-10 to 1962-10-23	367	-46
1962-10-24 to 1966-04-21	879	101	1966-04-22 to 1966-10-10	119	-31
1966-10-11 to 1968-12-16	524	337	1968-12-17 to 1969-07-29	151	-23

Restaurants, Hotels, Motels

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1969-07-30 to 1969-11-05	70	24	1969-11-06 to 1970-05-26	139	-54
1970-05-27 to 1973-01-02	658	161	1973-01-03 to 1973-06-25	120	-44
1973-06-26 to 1973-10-11	76	34	1973-10-12 to 1973-12-05	38	-41
1973-12-06 to 1974-03-13	67	16	1974-03-14 to 1974-10-04	143	-54
1974-10-07 to 1974-11-11	26	28	1974-11-12 to 1974-12-20	28	-21
1974-12-23 to 1975-07-15	141	130	1975-07-16 to 1975-08-20	26	-21
1975-08-21 to 1976-02-20	127	52	1976-02-23 to 1977-04-25	297	-30
1977-04-26 to 1978-09-14	351	123	1978-09-15 to 1978-11-14	43	-32
1978-11-15 to 1979-08-17	191	35	1979-08-20 to 1980-03-27	154	-27
1980-03-28 to 1981-06-15	306	76	1981-06-16 to 1981-09-25	72	-25
1981-09-28 to 1987-08-11	1485	286	1987-08-12 to 1987-12-04	81	-35
1987-12-07 to 1990-07-17	660	95	1990-07-18 to 1990-10-11	61	-33
1990-10-12 to 1998-07-06	1953	319	1998-07-07 to 1998-10-06	65	-24
1998-10-07 to 1999-04-21	135	48	1999-04-22 to 2000-03-07	222	-35
2000-03-08 to 2002-05-15	548	50	2002-05-16 to 2003-03-12	207	-40
2003-03-13 to 2007-10-31	1169	194	2007-11-01 to 2008-11-20	267	-42
2008-11-21 to 2009-01-05	29	29	2009-01-06 to 2009-03-05	41	-21
2009-03-06 to 2020-02-20	2759	707	2020-02-21 to 2020-03-18	19	-43
2020-03-19 to NA	179	70		NA	NA

Banking

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1926-08-20	42	18	1926-08-21 to 1927-05-03	209	-32
1927-05-04 to 1929-09-03	695	214	1929-09-04 to 1929-10-29	47	-58
1929-10-30 to 1929-10-31	2	7	1929-11-04 to 1929-11-13	7	-36
1929-11-14 to 1930-03-20	100	77	1930-03-21 to 1930-06-25	79	-41
1930-06-26 to 1930-09-10	62	19	1930-09-11 to 1930-12-16	80	-35
1930-12-17 to 1931-03-19	76	40	1931-03-20 to 1931-05-27	58	-35
1931-05-28 to 1931-06-25	24	30	1931-06-26 to 1931-10-05	84	-46
1931-10-06 to 1931-11-09	28	40	1931-11-10 to 1932-01-02	43	-32
1932-01-04 to 1932-03-05	52	63	1932-03-07 to 1932-06-01	73	-59
1932-06-02 to 1932-09-03	79	124	1932-09-06 to 1932-10-10	30	-28
1932-10-11 to 1932-10-20	8	11	1932-10-21 to 1932-12-22	52	-20
1932-12-23 to 1933-01-31	31	33	1933-02-01 to 1933-02-27	21	-23
1933-02-28 to 1933-07-03	97	142	1933-07-05 to 1933-07-21	15	-26
1933-07-22 to 1934-04-20	219	120	1934-04-21 to 1934-07-26	81	-19
1934-07-27 to 1936-11-18	697	195	1936-11-19 to 1938-03-31	407	-54
1938-04-01 to 1938-11-12	187	92	1938-11-14 to 1939-04-08	120	-24
1939-04-10 to 1940-04-08	301	29	1940-04-09 to 1940-05-21	37	-32
1940-05-22 to 1940-12-04	162	19	1940-12-05 to 1941-12-29	321	-38
1941-12-30 to 1946-06-17	1322	291	1946-06-18 to 1946-10-30	98	-26
1946-10-31 to 1950-03-21	962	88	1950-03-22 to 1950-07-26	98	-26

Banking

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1950-07-27 to 1961-11-24	2913	1022	1961-11-27 to 1962-06-27	148	-38
1962-06-28 to 1963-09-05	300	37	1963-09-06 to 1966-10-04	776	-31
1966-10-05 to 1968-12-02	520	143	1968-12-03 to 1969-07-30	160	-24
1969-07-31 to 1969-10-31	66	21	1969-11-03 to 1970-05-26	142	-29
1970-05-27 to 1972-11-17	630	85	1972-11-20 to 1973-05-21	124	-22
1973-05-22 to 1973-10-29	112	26	1973-10-30 to 1974-10-04	236	-53
1974-10-07 to 1975-06-24	181	61	1975-06-25 to 1975-10-01	69	-25
1975-10-02 to 1979-08-21	982	82	1979-08-22 to 1980-03-24	149	-25
1980-03-25 to 1981-06-15	309	70	1981-06-16 to 1982-08-12	294	-24
1982-08-13 to 1987-08-17	1267	333	1987-08-18 to 1987-12-07	78	-35
1987-12-08 to 1989-10-06	464	85	1989-10-09 to 1990-10-30	269	-50
1990-10-31 to 1998-07-14	1946	1091	1998-07-15 to 1998-10-08	61	-34
1998-10-09 to 1999-04-29	139	43	1999-04-30 to 1999-10-15	118	-19
1999-10-18 to 1999-11-16	22	21	1999-11-17 to 2000-03-10	79	-26
2000-03-13 to 2001-08-02	352	54	2001-08-03 to 2001-09-21	31	-21
2001-09-24 to 2002-05-17	164	25	2002-05-20 to 2002-07-23	45	-26
2002-07-24 to 2002-08-22	22	16	2002-08-23 to 2002-10-09	33	-21
2002-10-10 to 2007-02-20	1097	107	2007-02-21 to 2008-01-18	231	-35
2008-01-22 to 2008-02-01	9	19	2008-02-04 to 2008-07-15	113	-42
2008-07-16 to 2008-09-19	47	33	2008-09-22 to 2008-10-09	14	-29

Banking

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2008-10-10 to 2008-10-14	3	14	2008-10-15 to 2008-11-20	27	-35
2008-11-21 to 2008-12-08	11	36	2008-12-09 to 2009-01-20	28	-41
2009-01-21 to 2009-01-28	6	11	2009-01-29 to 2009-03-06	26	-35
2009-03-09 to 2010-04-15	279	163	2010-04-16 to 2010-08-30	95	-23
2010-08-31 to 2011-02-16	118	29	2011-02-17 to 2011-10-03	158	-34
2011-10-04 to 2015-07-22	955	155	2015-07-23 to 2016-02-11	141	-25
2016-02-12 to 2018-09-20	657	94	2018-09-21 to 2018-12-24	65	-24
2018-12-26 to 2020-02-20	290	42	2020-02-21 to 2020-03-23	22	-45
2020-03-24 to NA	176	40		NA	NA

Insurance

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1928-05-15	559	165	1928-05-16 to 1928-06-12	21	-19
1928-06-13 to 1929-09-03	366	37	1929-09-04 to 1929-10-29	47	-44
1929-10-30 to 1929-10-31	2	12	1929-11-04 to 1929-11-13	7	-35
1929-11-14 to 1930-03-29	108	44	1930-03-31 to 1930-06-18	65	-34
1930-06-19 to 1930-07-28	32	8	1930-07-29 to 1930-12-16	116	-36
1930-12-17 to 1931-02-24	56	33	1931-02-25 to 1931-06-02	82	-32
1931-06-03 to 1931-06-27	22	23	1931-06-29 to 1931-10-05	82	-52
1931-10-06 to 1931-11-09	28	37	1931-11-10 to 1931-12-15	30	-38
1931-12-16 to 1932-01-15	24	37	1932-01-16 to 1932-02-09	21	-20
1932-02-10 to 1932-03-08	22	22	1932-03-09 to 1932-06-01	71	-71
1932-06-02 to 1932-08-27	73	221	1932-08-29 to 1932-09-15	15	-26
1932-09-16 to 1932-09-21	5	16	1932-09-22 to 1932-10-31	33	-30
1932-11-01 to 1933-01-11	57	25	1933-01-12 to 1933-02-27	38	-26
1933-02-28 to 1933-03-16	6	20	1933-03-17 to 1933-04-01	14	-29
1933-04-03 to 1933-07-06	79	218	1933-07-07 to 1933-10-19	82	-38
1933-10-20 to 1934-04-20	150	67	1934-04-21 to 1934-09-15	124	-24
1934-09-17 to 1936-02-15	425	92	1936-02-17 to 1936-04-30	62	-22
1936-05-01 to 1937-01-16	214	27	1937-01-18 to 1937-10-19	227	-43
1937-10-20 to 1938-02-23	102	20	1938-02-24 to 1938-03-30	30	-32
1938-03-31 to 1940-03-23	596	104	1940-03-25 to 1940-05-25	54	-30

Insurance

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1940-05-27 to 1941-09-30	407	71	1941-10-01 to 1942-04-28	171	-31
1942-04-29 to 1946-02-06	1120	148	1946-02-07 to 1947-05-24	370	-27
1947-05-26 to 1950-06-13	861	107	1950-06-14 to 1950-07-13	21	-22
1950-07-14 to 1956-04-02	1499	170	1956-04-03 to 1956-11-28	167	-22
1956-11-29 to 1957-05-02	106	26	1957-05-03 to 1957-11-14	136	-26
1957-11-15 to 1959-03-05	327	73	1959-03-06 to 1959-10-30	168	-21
1959-11-02 to 1962-03-28	604	71	1962-03-29 to 1962-10-23	145	-30
1962-10-24 to 1968-10-21	1490	141	1968-10-22 to 1969-07-29	183	-38
1969-07-30 to 1969-10-24	62	30	1969-10-27 to 1970-05-26	147	-38
1970-05-27 to 1972-04-21	484	90	1972-04-24 to 1973-05-21	270	-30
1973-05-22 to 1973-10-08	97	26	1973-10-09 to 1974-10-03	250	-52
1974-10-04 to 1975-07-15	196	73	1975-07-16 to 1975-09-17	45	-22
1975-09-18 to 1980-01-23	1099	178	1980-01-24 to 1980-03-27	45	-20
1980-03-28 to 1987-08-26	1874	367	1987-08-27 to 1987-12-11	75	-28
1987-12-14 to 1989-12-01	499	77	1989-12-04 to 1990-10-11	217	-33
1990-10-12 to 1998-07-14	1959	588	1998-07-15 to 1998-10-08	61	-27
1998-10-09 to 1999-05-13	149	34	1999-05-14 to 1999-10-15	108	-21
1999-10-18 to 1999-11-08	16	19	1999-11-09 to 2000-03-10	85	-27
2000-03-13 to 2000-12-08	190	80	2000-12-11 to 2001-09-21	193	-21
2001-09-24 to 2002-05-01	152	19	2002-05-02 to 2002-07-23	57	-24

Insurance

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2002-07-24 to 2002-08-22	22	15	2002-08-23 to 2003-03-12	138	-20
2003-03-13 to 2007-06-04	1064	119	2007-06-05 to 2008-10-09	342	-61
2008-10-10 to 2008-10-14	3	21	2008-10-15 to 2008-11-20	27	-29
2008-11-21 to 2009-01-06	30	40	2009-01-07 to 2009-03-05	40	-39
2009-03-06 to 2011-05-19	557	155	2011-05-20 to 2011-10-03	94	-25
2011-10-04 to 2020-02-13	2104	376	2020-02-14 to 2020-03-23	26	-41
2020-03-24 to NA	176	45		NA	NA

Real Estate

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1929-02-06	777	138	1929-02-07 to 1929-11-13	225	-30
1929-11-14 to 1930-04-01	110	25	1930-04-02 to 1930-12-16	211	-69
1930-12-17 to 1931-02-28	60	39	1931-03-02 to 1931-06-02	78	-49
1931-06-03 to 1931-08-18	65	33	1931-08-19 to 1931-10-05	39	-48
1931-10-06 to 1931-10-08	3	21	1931-10-09 to 1931-10-27	15	-16
1931-10-28 to 1931-11-09	10	23	1931-11-10 to 1931-12-28	39	-50
1931-12-29 to 1932-03-08	58	33	1932-03-09 to 1932-05-19	61	-69
1932-05-20 to 1932-05-23	3	6	1932-05-24 to 1932-06-02	8	-39
1932-06-03 to 1932-06-04	2	30	1932-06-06 to 1932-06-17	11	-24
1932-06-18 to 1932-06-20	2	12	1932-06-21 to 1932-06-28	7	-22
1932-06-29 to 1932-09-07	58	150	1932-09-08 to 1932-11-02	47	-36
1932-11-03 to 1932-11-12	8	21	1932-11-14 to 1932-12-29	38	-43
1932-12-30 to 1933-01-12	10	22	1933-01-13 to 1933-02-28	38	-31
1933-03-01 to 1933-03-15	4	27	1933-03-16 to 1933-04-01	15	-33
1933-04-03 to 1933-07-06	79	241	1933-07-07 to 1933-07-22	14	-35
1933-07-24 to 1933-08-25	25	19	1933-08-28 to 1933-10-21	45	-34
1933-10-23 to 1934-02-03	86	67	1934-02-05 to 1934-07-27	144	-57
1934-07-28 to 1934-08-27	26	23	1934-08-28 to 1934-10-04	32	-17
1934-10-05 to 1934-12-05	49	24	1934-12-06 to 1935-03-14	81	-36
1935-03-15 to 1935-05-24	60	49	1935-05-25 to 1935-07-13	41	-25

Real Estate

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1935-07-15 to 1935-08-13	26	61	1935-08-14 to 1935-10-02	42	-27
1935-10-03 to 1936-03-03	123	155	1936-03-04 to 1936-04-29	48	-38
1936-04-30 to 1937-01-22	220	145	1937-01-23 to 1937-05-13	92	-45
1937-05-14 to 1937-07-27	60	16	1937-07-28 to 1937-10-19	70	-52
1937-10-20 to 1937-11-13	20	16	1937-11-15 to 1937-12-28	36	-25
1937-12-29 to 1938-01-10	10	21	1938-01-11 to 1938-03-31	67	-36
1938-04-01 to 1938-07-25	96	56	1938-07-26 to 1938-09-17	46	-28
1938-09-19 to 1938-10-22	29	32	1938-10-24 to 1939-08-23	251	-52
1939-08-24 to 1939-09-13	17	26	1939-09-14 to 1939-12-27	85	-21
1939-12-28 to 1940-04-05	82	14	1940-04-06 to 1940-07-06	77	-40
1940-07-08 to 1940-10-02	74	77	1940-10-03 to 1940-10-29	22	-22
1940-10-30 to 1940-11-04	5	32	1940-11-06 to 1940-11-06	1	0
1940-11-07 to 1940-11-09	3	11	1940-11-12 to 1940-12-11	25	-36
1940-12-12 to 1941-01-11	25	60	1941-01-13 to 1941-02-25	36	-30
1941-02-26 to 1941-04-03	32	24	1941-04-04 to 1941-04-12	7	-18
1941-04-14 to 1941-04-18	5	21	1941-04-19 to 1941-06-04	39	-16
1941-06-05 to 1941-07-26	44	31	1941-07-28 to 1941-12-10	112	-29
1941-12-11 to 1942-10-17	258	32	1942-10-19 to 1942-12-30	59	-15
1942-12-31 to 1943-06-04	129	159	1943-06-05 to 1943-11-08	130	-30
1943-11-09 to 1944-01-20	59	33	1944-01-21 to 1944-02-04	13	-20

Real Estate

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1944-02-05 to 1945-01-18	284	109	1945-01-19 to 1945-04-12	69	-19
1945-04-13 to 1946-02-07	234	165	1946-02-08 to 1946-03-13	26	-19
1946-03-14 to 1946-05-10	49	28	1946-05-11 to 1947-05-19	289	-59
1947-05-20 to 1947-07-28	49	32	1947-07-29 to 1948-03-15	179	-24
1948-03-16 to 1948-05-22	58	38	1948-05-24 to 1949-02-10	199	-24
1949-02-11 to 1957-05-31	2194	533	1957-06-03 to 1957-12-26	144	-27
1957-12-27 to 1959-03-20	310	101	1959-03-23 to 1960-11-03	412	-21
1960-11-04 to 1961-05-10	128	75	1961-05-11 to 1961-10-12	107	-20
1961-10-13 to 1962-02-06	79	27	1962-02-07 to 1962-10-26	183	-40
1962-10-29 to 1962-11-30	23	33	1962-12-03 to 1965-06-29	648	-21
1965-06-30 to 1966-04-21	205	43	1966-04-22 to 1966-10-07	118	-30
1966-10-10 to 1969-05-13	624	422	1969-05-14 to 1969-07-29	52	-36
1969-07-30 to 1969-10-20	58	28	1969-10-21 to 1970-05-26	151	-54
1970-05-27 to 1971-10-07	347	104	1971-10-08 to 1971-11-23	33	-22
1971-11-24 to 1972-04-12	97	37	1972-04-13 to 1973-12-17	423	-71
1973-12-18 to 1974-03-11	57	24	1974-03-12 to 1974-12-30	204	-65
1974-12-31 to 1975-07-14	135	79	1975-07-15 to 1975-12-08	103	-36
1975-12-09 to 1978-09-14	699	233	1978-09-15 to 1978-11-14	43	-31
1978-11-15 to 1980-02-06	310	102	1980-02-07 to 1980-03-27	35	-31
1980-03-28 to 1981-06-15	306	94	1981-06-16 to 1982-08-12	294	-29

Real Estate

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1982-08-13 to 1983-06-17	215	142	1983-06-20 to 1984-07-25	279	-32
1984-07-26 to 1986-03-27	422	51	1986-03-31 to 1986-12-23	188	-20
1986-12-24 to 1987-10-02	196	31	1987-10-05 to 1987-10-28	18	-33
1987-10-29 to 1989-06-20	415	15	1989-06-21 to 1991-01-09	393	-57
1991-01-10 to 1992-02-28	288	50	1992-03-02 to 1992-07-28	104	-22
1992-07-29 to 1994-01-31	383	44	1994-02-01 to 1994-07-28	123	-20
1994-07-29 to 1996-06-12	474	66	1996-06-13 to 1997-05-01	224	-26
1997-05-02 to 1997-10-22	121	50	1997-10-23 to 1998-10-08	242	-57
1998-10-09 to 1999-01-21	71	40	1999-01-22 to 2000-10-17	440	-41
2000-10-18 to 2002-05-20	395	63	2002-05-21 to 2003-03-12	204	-26
2003-03-13 to 2005-07-11	587	206	2005-07-12 to 2006-08-14	276	-32
2006-08-15 to 2007-06-04	201	56	2007-06-05 to 2008-01-18	159	-48
2008-01-22 to 2008-04-28	68	19	2008-04-29 to 2008-10-27	127	-64
2008-10-28 to 2008-11-03	5	18	2008-11-04 to 2008-11-20	13	-45
2008-11-21 to 2009-01-06	30	47	2009-01-07 to 2009-03-06	41	-43
2009-03-09 to 2010-04-23	285	310	2010-04-26 to 2010-07-06	50	-27
2010-07-07 to 2011-04-21	202	62	2011-04-25 to 2011-10-03	113	-41
2011-10-04 to 2015-04-06	880	150	2015-04-07 to 2016-02-11	216	-37
2016-02-12 to 2018-03-09	522	69	2018-03-12 to 2018-12-24	200	-31
2018-12-26 to 2020-02-13	286	46	2020-02-14 to 2020-03-23	26	-53

Real Estate

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2020-03-24 to NA	176	86		NA	NA

Trading

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1928-05-17	561	85	1928-05-18 to 1928-06-19	25	-20
1928-06-20 to 1929-09-23	377	86	1929-09-24 to 1929-10-29	30	-56
1929-10-30 to 1929-10-31	2	12	1929-11-04 to 1929-11-13	7	-36
1929-11-14 to 1930-04-10	118	67	1930-04-11 to 1930-06-24	60	-38
1930-06-25 to 1930-09-10	63	20	1930-09-11 to 1930-12-16	80	-58
1930-12-17 to 1931-03-19	76	60	1931-03-20 to 1931-06-02	62	-45
1931-06-03 to 1931-06-27	22	32	1931-06-29 to 1931-10-05	82	-54
1931-10-06 to 1931-10-20	12	17	1931-10-21 to 1931-12-28	55	-44
1931-12-29 to 1932-02-16	41	45	1932-02-17 to 1932-05-31	87	-53
1932-06-01 to 1932-09-07	82	194	1932-09-08 to 1932-10-10	28	-38
1932-10-11 to 1932-11-12	27	15	1932-11-14 to 1933-03-02	88	-28
1933-03-03 to 1933-03-16	3	26	1933-03-17 to 1933-04-03	15	-21
1933-04-04 to 1933-07-13	84	138	1933-07-14 to 1933-10-21	78	-45
1933-10-23 to 1934-02-06	88	47	1934-02-07 to 1935-03-12	328	-46
1935-03-13 to 1937-02-11	579	225	1937-02-13 to 1937-06-29	113	-26
1937-06-30 to 1937-07-26	21	28	1937-07-27 to 1938-03-30	203	-63
1938-03-31 to 1938-07-02	79	48	1938-07-05 to 1938-09-26	71	-23
1938-09-27 to 1938-11-09	36	33	1938-11-10 to 1938-12-08	23	-23
1938-12-09 to 1938-12-15	6	18	1938-12-16 to 1939-04-08	93	-29
1939-04-10 to 1939-12-07	201	43	1939-12-08 to 1940-06-10	153	-25

Trading

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1940-06-11 to 1940-10-31	120	32	1940-11-01 to 1941-05-01	148	-19
1941-05-02 to 1943-05-06	606	160	1943-05-07 to 1943-11-08	154	-19
1943-11-09 to 1946-05-29	749	179	1946-05-31 to 1947-05-17	273	-40
1947-05-19 to 1957-05-24	2676	644	1957-05-27 to 1957-10-22	104	-30
1957-10-23 to 1961-12-06	1038	114	1961-12-07 to 1962-06-25	138	-33
1962-06-26 to 1966-02-14	917	96	1966-02-15 to 1966-10-10	165	-27
1966-10-11 to 1968-11-29	515	167	1968-12-02 to 1969-07-29	160	-29
1969-07-30 to 1969-11-07	72	21	1969-11-10 to 1970-07-07	166	-40
1970-07-08 to 1972-12-11	616	102	1972-12-12 to 1973-05-21	109	-29
1973-05-22 to 1973-10-12	101	19	1973-10-15 to 1974-10-03	246	-49
1974-10-04 to 1987-08-25	3258	1241	1987-08-26 to 1987-12-04	71	-32
1987-12-07 to 1989-10-09	466	68	1989-10-10 to 1990-10-30	268	-43
1990-10-31 to 1998-07-17	1949	1090	1998-07-20 to 1998-10-07	57	-45
1998-10-08 to 1999-04-13	128	129	1999-04-14 to 1999-10-18	131	-29
1999-10-19 to 2000-03-24	110	72	2000-03-27 to 2000-05-26	44	-28
2000-05-30 to 2000-09-11	73	54	2000-09-12 to 2000-11-30	57	-29
2000-12-01 to 2001-02-01	42	31	2001-02-02 to 2001-04-04	43	-34
2001-04-05 to 2001-05-22	33	27	2001-05-23 to 2001-09-20	80	-38
2001-09-21 to 2002-01-04	73	43	2002-01-07 to 2002-08-05	146	-34
2002-08-06 to 2002-08-19	10	17	2002-08-20 to 2002-10-09	36	-27

Trading

Dates	Duration	Amplitude	Dates	Duration	Amplitude
2002-10-10 to 2002-11-21	31	37	2002-11-22 to 2003-03-12	74	-23
2003-03-13 to 2004-03-05	248	77	2004-03-08 to 2004-08-06	106	-21
2004-08-09 to 2007-06-01	709	125	2007-06-04 to 2008-03-17	199	-38
2008-03-18 to 2008-05-02	33	13	2008-05-05 to 2008-07-15	50	-31
2008-07-16 to 2008-07-23	6	12	2008-07-24 to 2008-09-17	39	-21
2008-09-18 to 2008-09-19	2	13	2008-09-22 to 2008-10-09	14	-31
2008-10-10 to 2008-10-14	3	21	2008-10-15 to 2008-10-27	9	-19
2008-10-28 to 2008-11-04	6	14	2008-11-05 to 2008-11-20	12	-36
2008-11-21 to 2009-01-06	30	42	2009-01-07 to 2009-01-20	9	-22
2009-01-21 to 2009-02-06	13	14	2009-02-09 to 2009-03-09	20	-24
2009-03-10 to 2010-04-14	277	97	2010-04-15 to 2010-07-02	56	-24
2010-07-06 to 2011-02-18	160	38	2011-02-22 to 2011-10-03	156	-37
2011-10-04 to 2012-03-26	120	34	2012-03-27 to 2012-06-04	48	-21
2012-06-05 to 2015-06-23	767	132	2015-06-24 to 2016-02-11	161	-29
2016-02-12 to 2018-03-09	522	103	2018-03-12 to 2018-12-24	200	-27
2018-12-26 to 2020-02-19	289	43	2020-02-20 to 2020-03-23	23	-41
2020-03-24 to NA	176	59		NA	NA

Other

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1926-07-01 to 1928-04-17	538	49	1928-04-18 to 1929-10-29	455	-67
1929-10-30 to 1929-10-31	2	6	1929-11-04 to 1929-11-13	7	-22
1929-11-14 to 1929-12-07	16	17	1929-12-09 to 1929-12-30	18	-18
1929-12-31 to 1930-04-09	83	42	1930-04-10 to 1930-06-25	62	-35
1930-06-26 to 1930-08-01	30	17	1930-08-02 to 1930-12-19	115	-38
1930-12-20 to 1931-03-27	80	68	1931-03-28 to 1931-06-01	54	-28
1931-06-02 to 1931-06-24	20	35	1931-06-25 to 1932-01-05	158	-38
1932-01-06 to 1932-02-13	33	22	1932-02-15 to 1932-06-30	115	-38
1932-07-01 to 1932-09-07	56	71	1932-09-08 to 1933-04-05	163	-31
1933-04-06 to 1933-07-18	86	230	1933-07-19 to 1933-07-21	3	-28
1933-07-22 to 1933-10-09	61	33	1933-10-10 to 1933-10-19	8	-19
1933-10-20 to 1934-02-17	99	42	1934-02-19 to 1934-07-26	132	-22
1934-07-27 to 1935-11-23	400	72	1935-11-25 to 1936-08-10	215	-24
1936-08-11 to 1937-03-16	177	42	1937-03-17 to 1937-10-19	179	-47
1937-10-20 to 1937-11-12	19	13	1937-11-13 to 1937-12-28	37	-25
1937-12-29 to 1938-01-11	11	17	1938-01-12 to 1938-03-29	64	-32
1938-03-30 to 1938-12-29	227	105	1938-12-30 to 1939-04-11	84	-34
1939-04-12 to 1939-07-22	86	24	1939-07-24 to 1939-09-05	37	-20
1939-09-06 to 1940-04-06	175	29	1940-04-08 to 1940-05-28	44	-38
1940-05-29 to 1941-09-17	394	48	1941-09-18 to 1942-04-24	179	-24

Other

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1942-04-25 to 1946-05-29	1214	217	1946-05-31 to 1946-11-22	128	-31
1946-11-23 to 1947-02-08	64	21	1947-02-10 to 1947-05-19	82	-22
1947-05-20 to 1950-06-02	859	76	1950-06-05 to 1950-07-26	37	-20
1950-07-27 to 1956-03-28	1488	158	1956-03-29 to 1957-11-14	411	-30
1957-11-15 to 1962-03-15	1090	250	1962-03-16 to 1962-06-25	70	-29
1962-06-26 to 1965-04-26	713	177	1965-04-27 to 1965-06-28	44	-22
1965-06-29 to 1966-04-12	199	59	1966-04-13 to 1966-11-22	156	-40
1966-11-23 to 1968-01-19	291	105	1968-01-22 to 1968-03-25	44	-20
1968-03-26 to 1969-01-28	187	93	1969-01-29 to 1970-05-26	332	-72
1970-05-27 to 1970-06-03	6	11	1970-06-04 to 1970-08-05	44	-26
1970-08-06 to 1970-10-05	42	27	1970-10-06 to 1970-11-27	38	-30
1970-11-30 to 1971-03-17	75	63	1971-03-18 to 1971-11-12	168	-43
1971-11-15 to 1972-03-17	87	64	1972-03-20 to 1972-10-13	146	-39
1972-10-16 to 1973-01-04	54	24	1973-01-05 to 1973-04-17	71	-45
1973-04-18 to 1973-04-23	3	18	1973-04-24 to 1973-06-01	28	-30
1973-06-04 to 1973-10-12	93	26	1973-10-15 to 1974-10-03	246	-50
1974-10-04 to 1978-09-12	995	178	1978-09-13 to 1978-11-14	45	-22
1978-11-15 to 1980-02-08	312	57	1980-02-11 to 1980-03-27	33	-24
1980-03-28 to 1981-05-29	295	96	1981-06-01 to 1982-08-13	306	-28
1982-08-16 to 1983-06-22	217	106	1983-06-23 to 1984-07-24	275	-32

Other

Dates	Duration	Amplitude	Dates	Duration	Amplitude
1984-07-25 to 1987-08-11	770	233	1987-08-12 to 1987-12-04	81	-41
1987-12-07 to 1990-07-16	659	145	1990-07-17 to 1990-10-11	62	-35
1990-10-12 to 1992-02-06	334	48	1992-02-07 to 1992-08-25	139	-25
1992-08-26 to 1993-02-03	112	25	1993-02-04 to 1994-12-08	467	-30
1994-12-09 to 1998-07-20	911	96	1998-07-21 to 1998-10-08	57	-29
1998-10-09 to 1999-07-02	184	39	1999-07-06 to 1999-10-21	77	-42
1999-10-22 to 2000-09-08	223	58	2000-09-11 to 2001-03-22	134	-33
2001-03-23 to 2001-05-21	41	30	2001-05-22 to 2001-09-20	81	-41
2001-09-21 to 2001-11-15	40	29	2001-11-16 to 2002-07-23	170	-38
2002-07-24 to 2002-08-22	22	22	2002-08-23 to 2002-10-09	33	-29
2002-10-10 to 2007-10-31	1274	124	2007-11-01 to 2008-11-20	267	-56
2008-11-21 to 2008-12-08	11	24	2008-12-09 to 2009-03-05	59	-43
2009-03-06 to 2011-02-17	494	124	2011-02-18 to 2011-09-22	150	-24
2011-09-23 to 2017-03-01	1367	144	2017-03-02 to 2018-12-24	458	-20
2018-12-26 to 2020-02-19	289	28	2020-02-20 to 2020-03-23	23	-34
2020-03-24 to NA	176	37		NA	NA

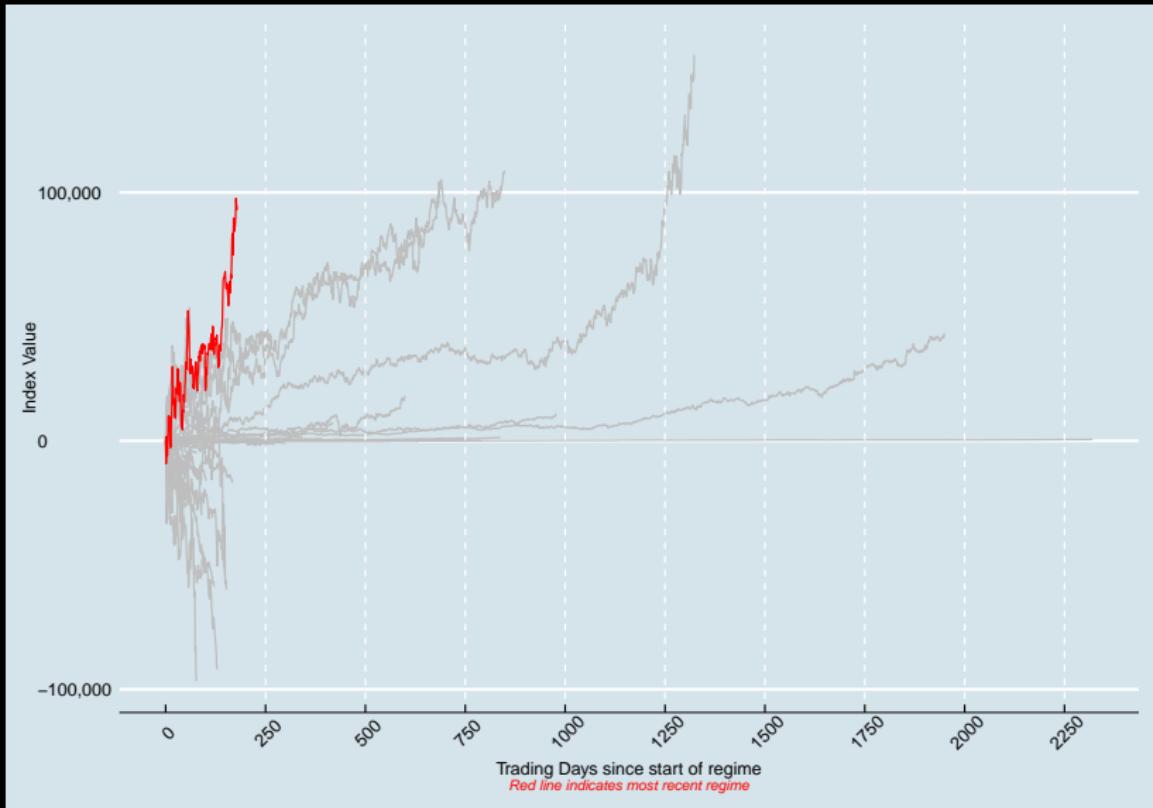
K-Charts

K-Charts

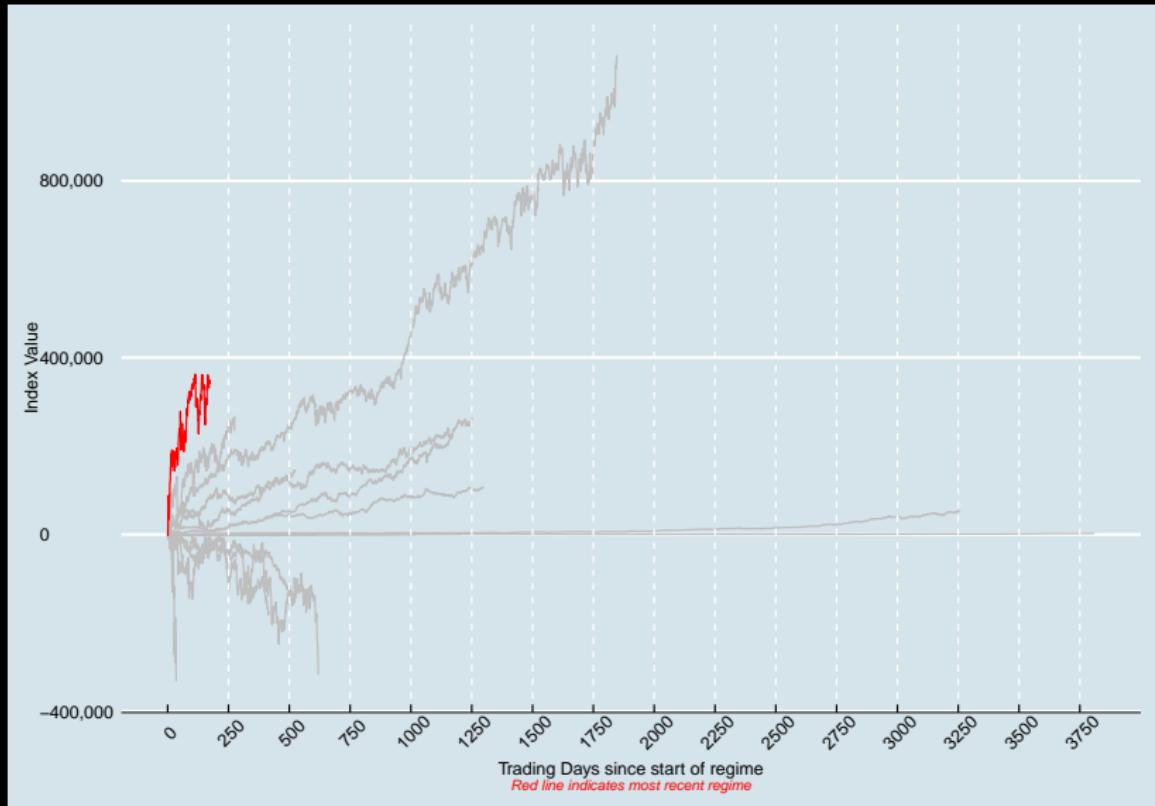
- Purpose: Visualize the duration (in days) and amplitude (change in market price) of each bear/bull regime.
- Method: Use the rules based approach of Lunde & Timmerman^{^2} with +/-20% price change thresholds. Uses the bbddetection^{^1} package for implementation.
- Data: Daily prices of the 49 Industries from 1926 to 2021 compiled and maintained by Ken French.
- Authors:
 - Connor Folk (December 2021-Present)
 - Patrick Barley (December 2021-Present)

[1]: Zakamulin (2017). [2]: Lunde, A. and Timmermann, A. (2004).

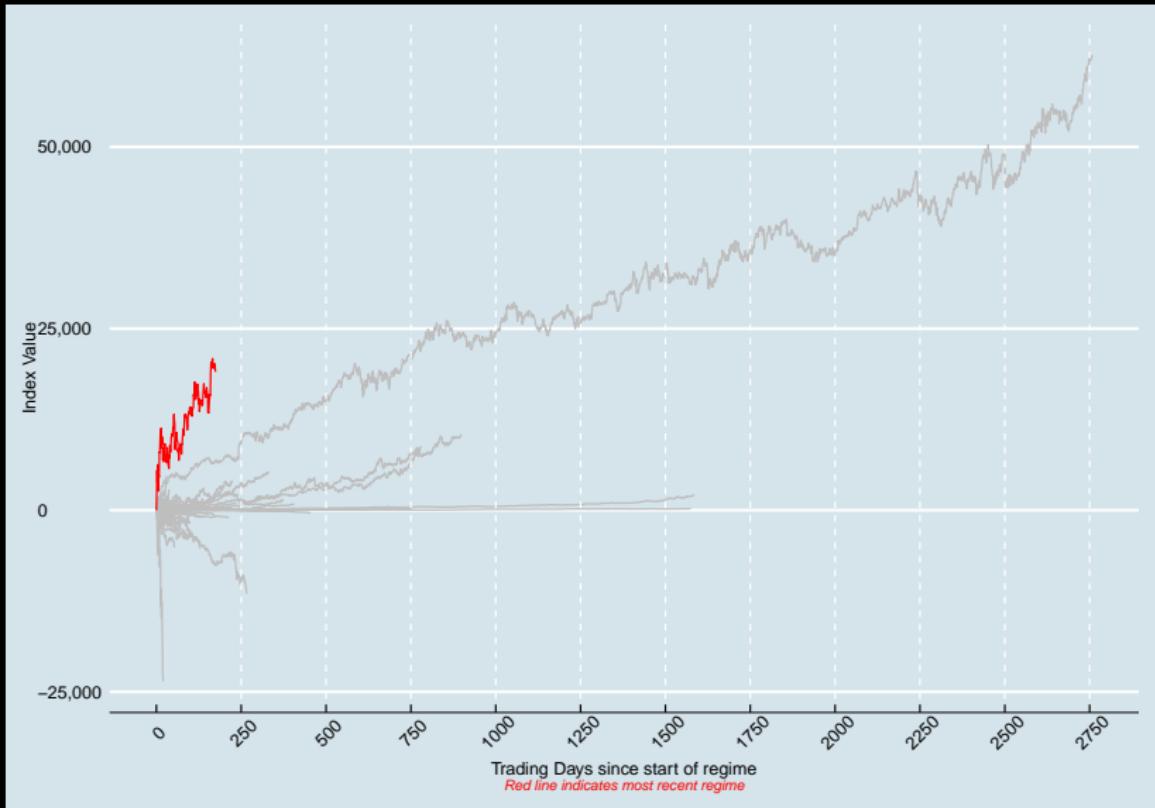
Agriculture



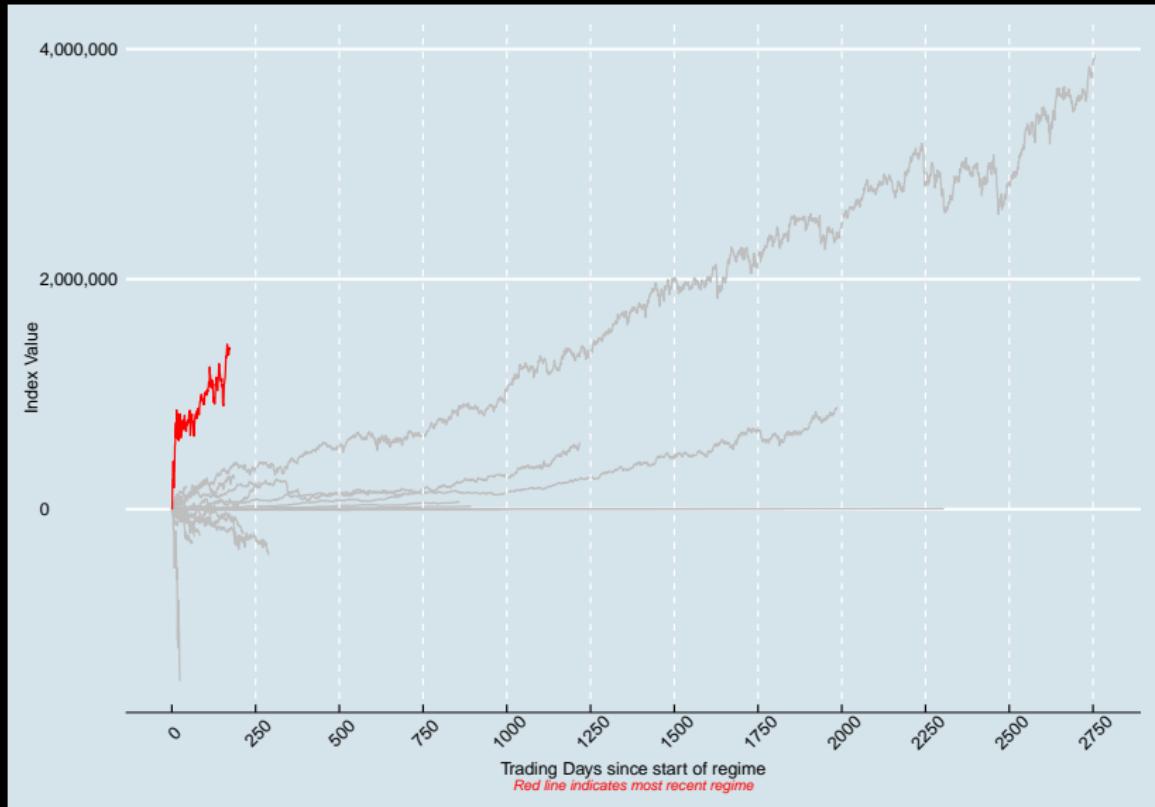
Food Products



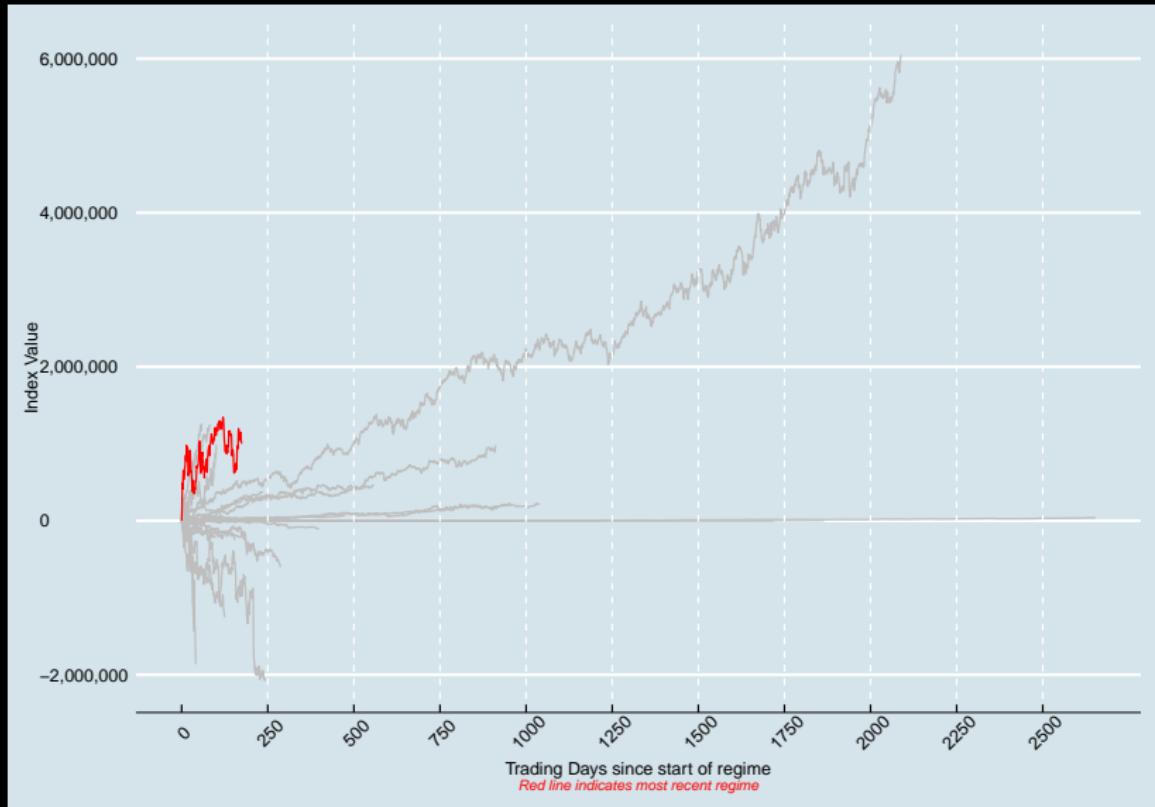
Candy and Soda



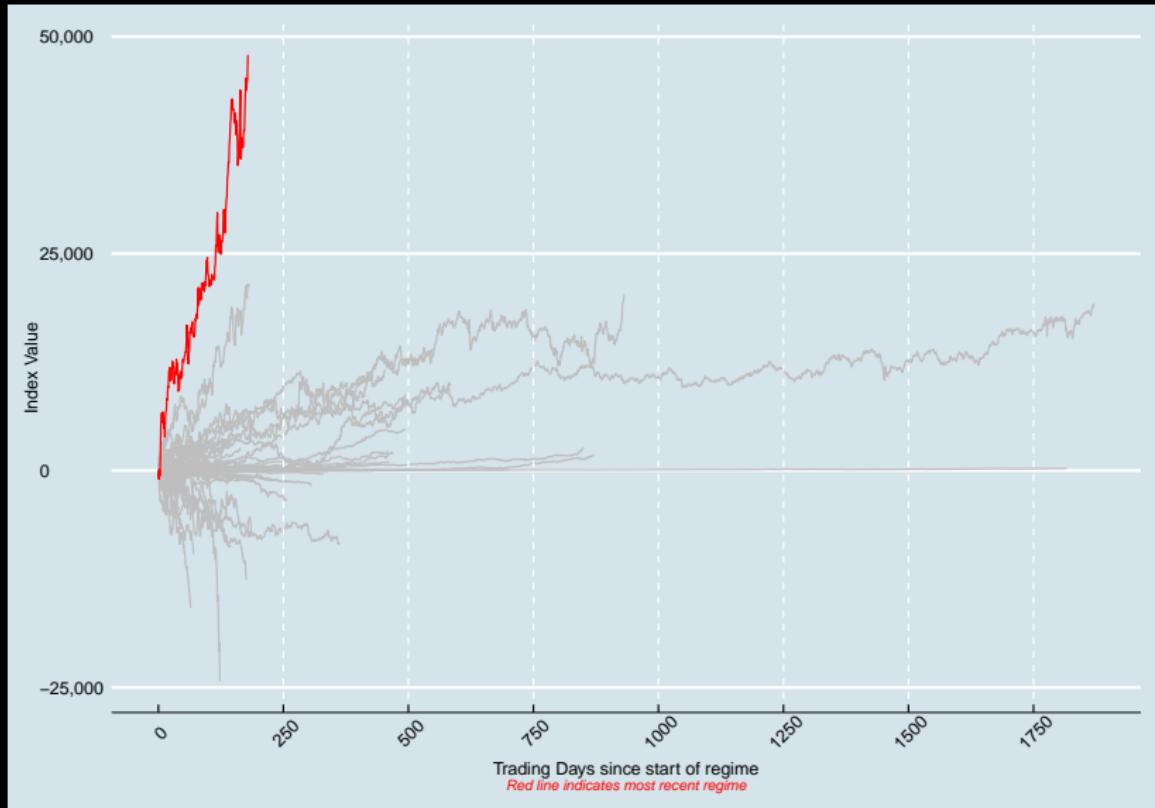
Beer and Liquor



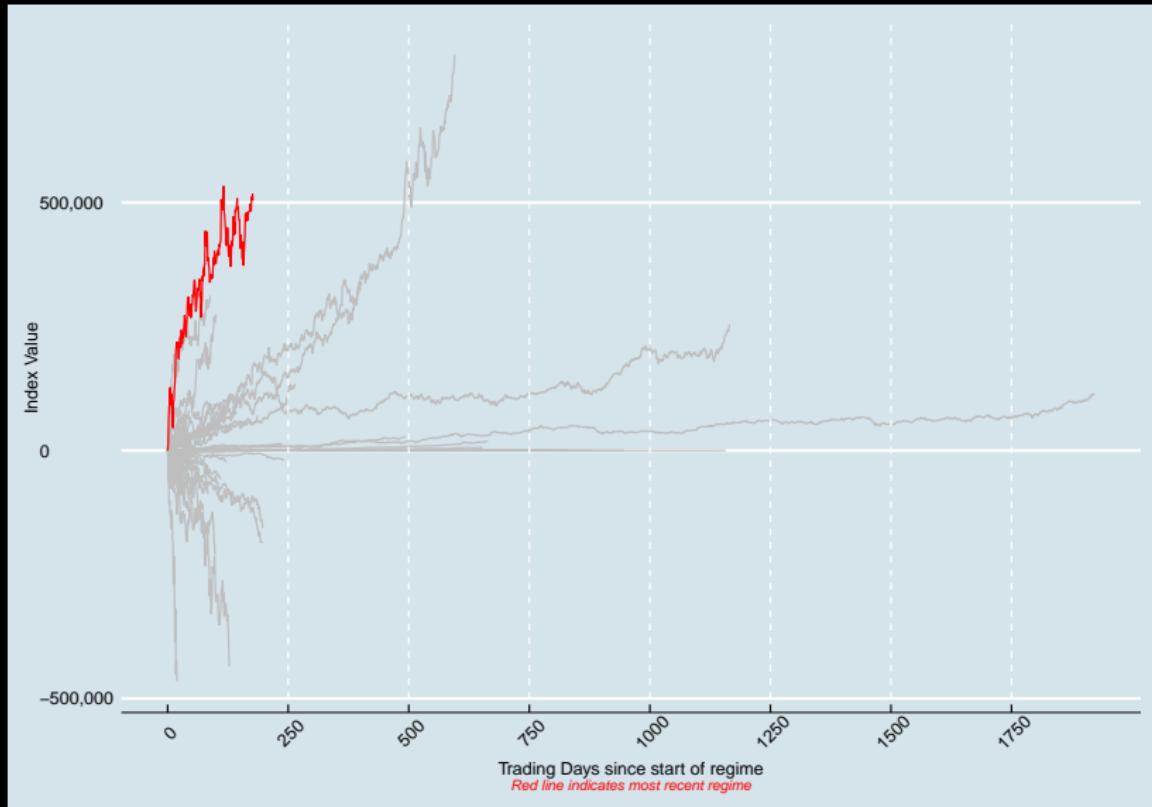
Tobacco Products



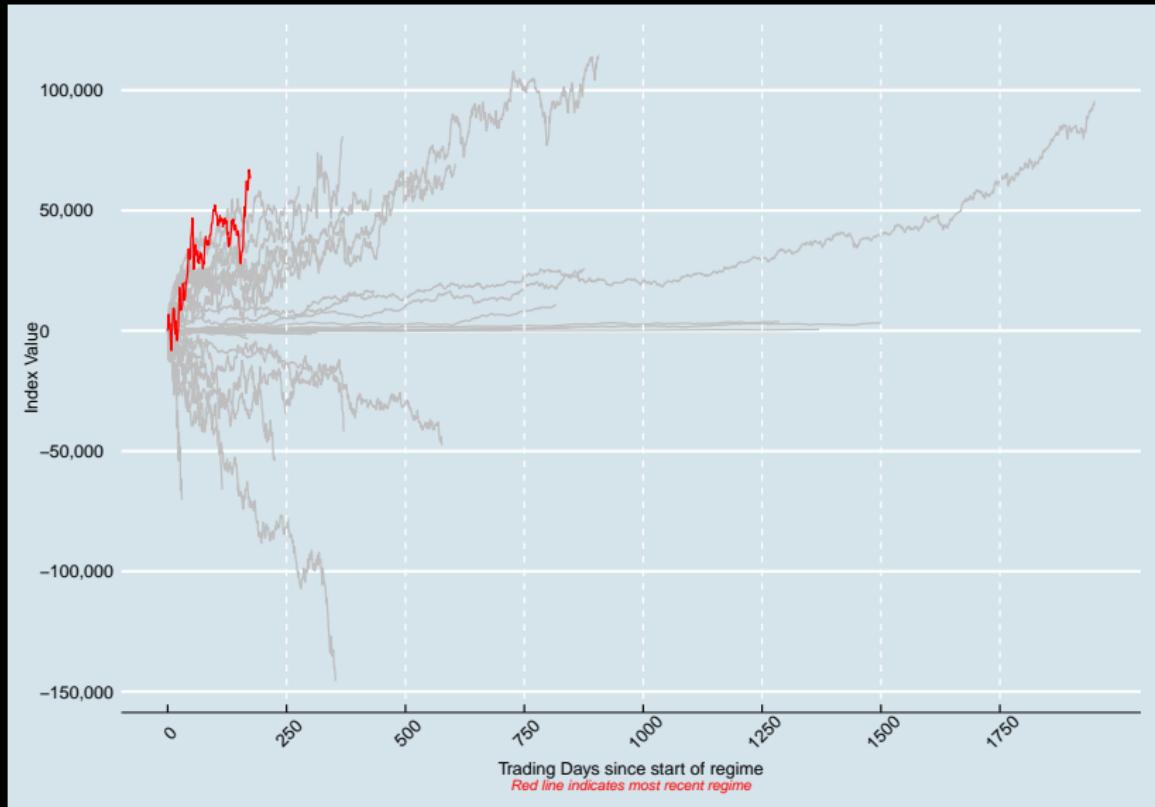
Recreation



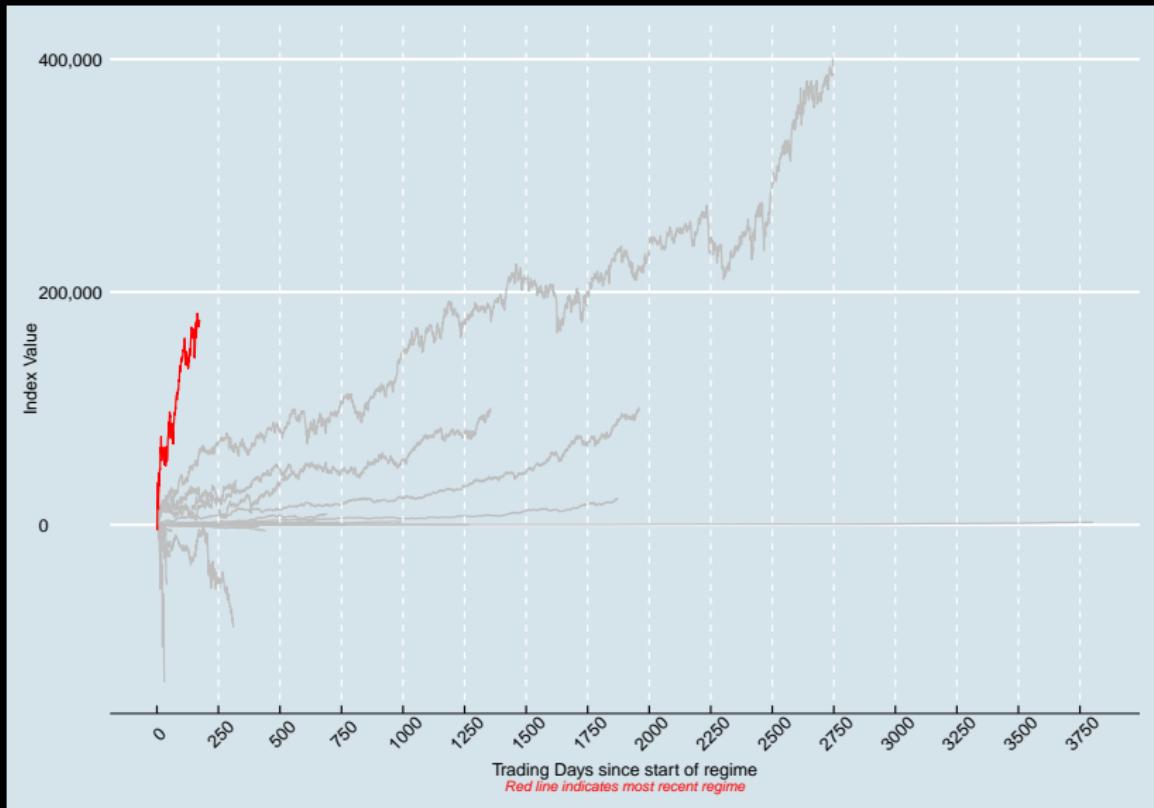
Entertainment



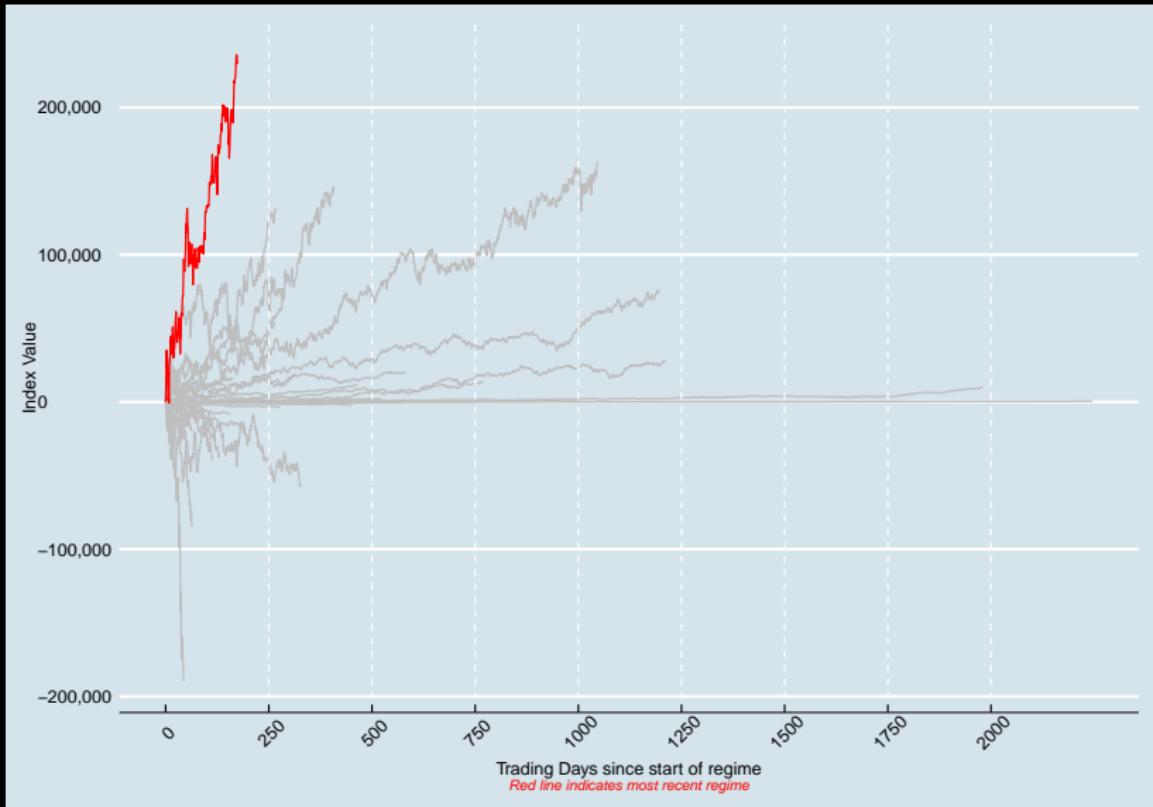
Printing and Publishing



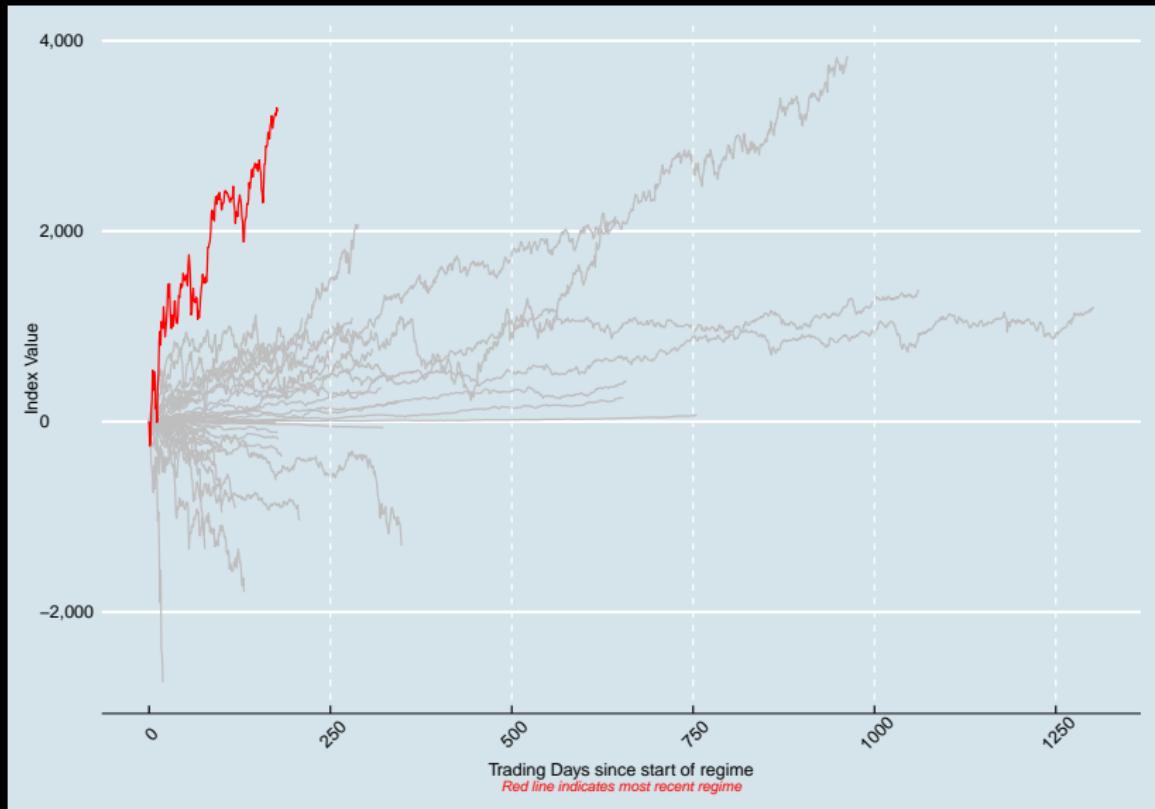
Consumer Goods



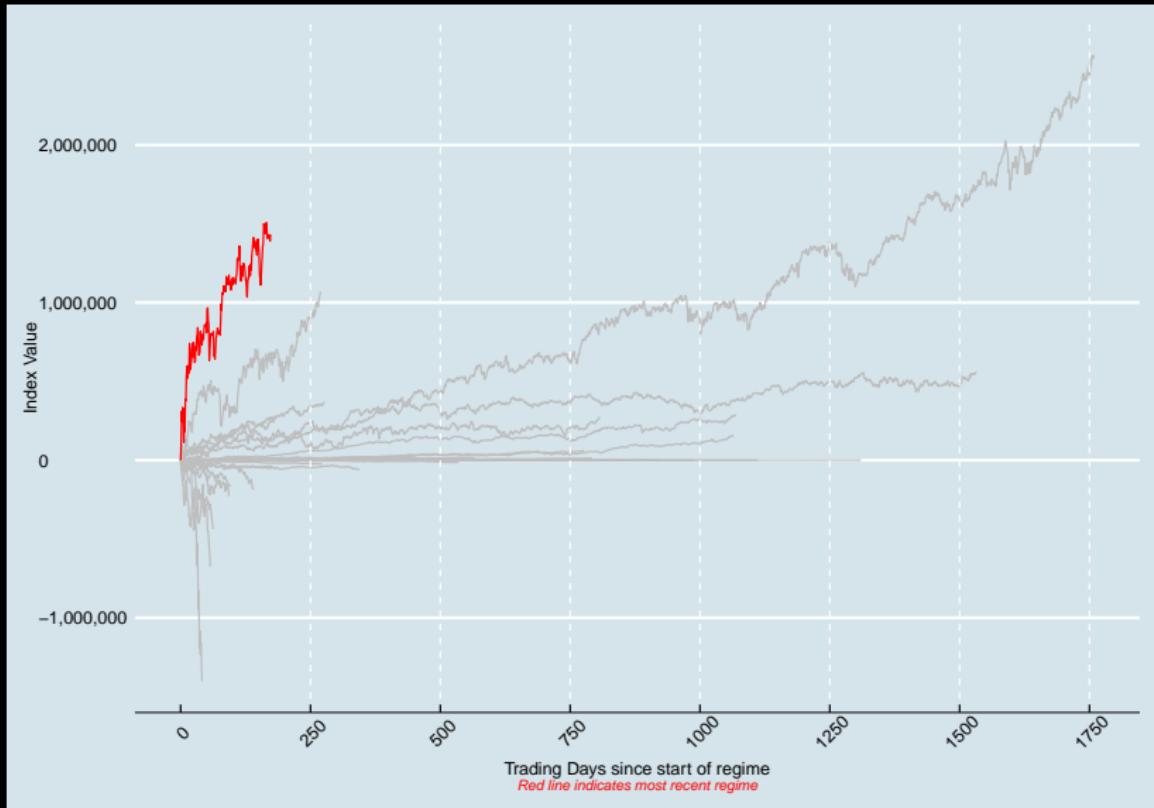
Apparel



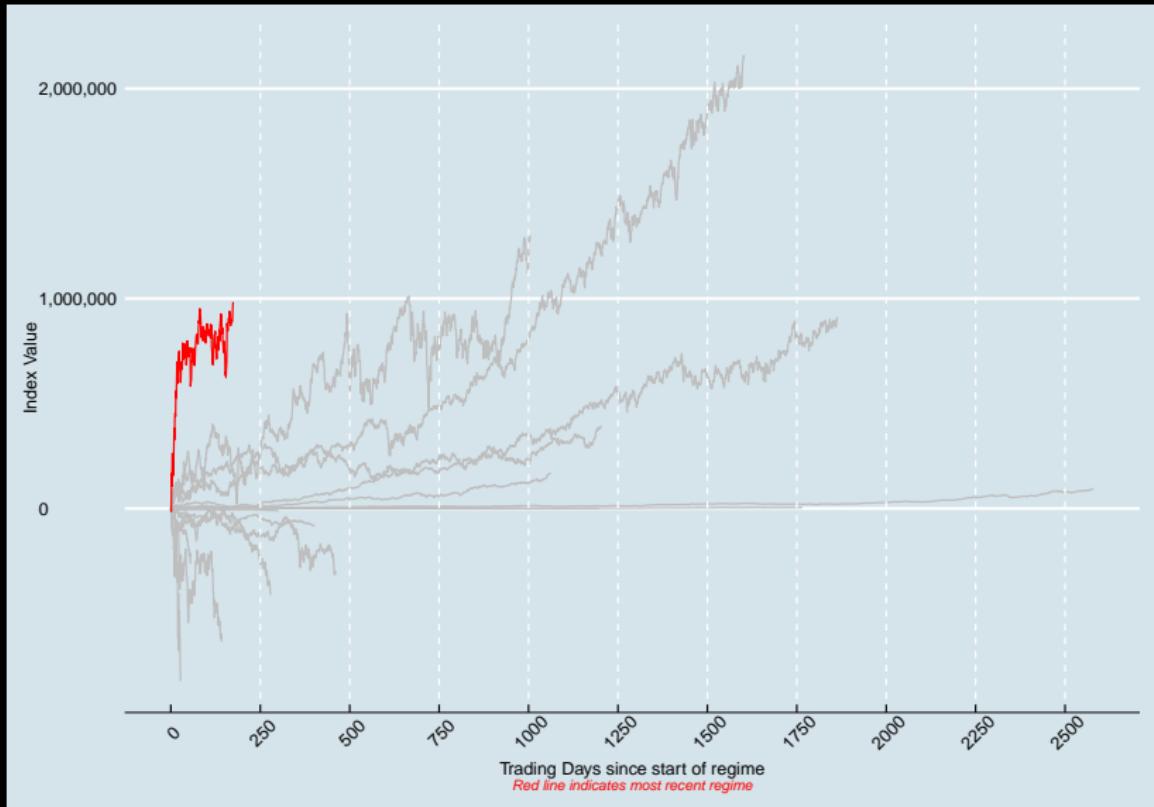
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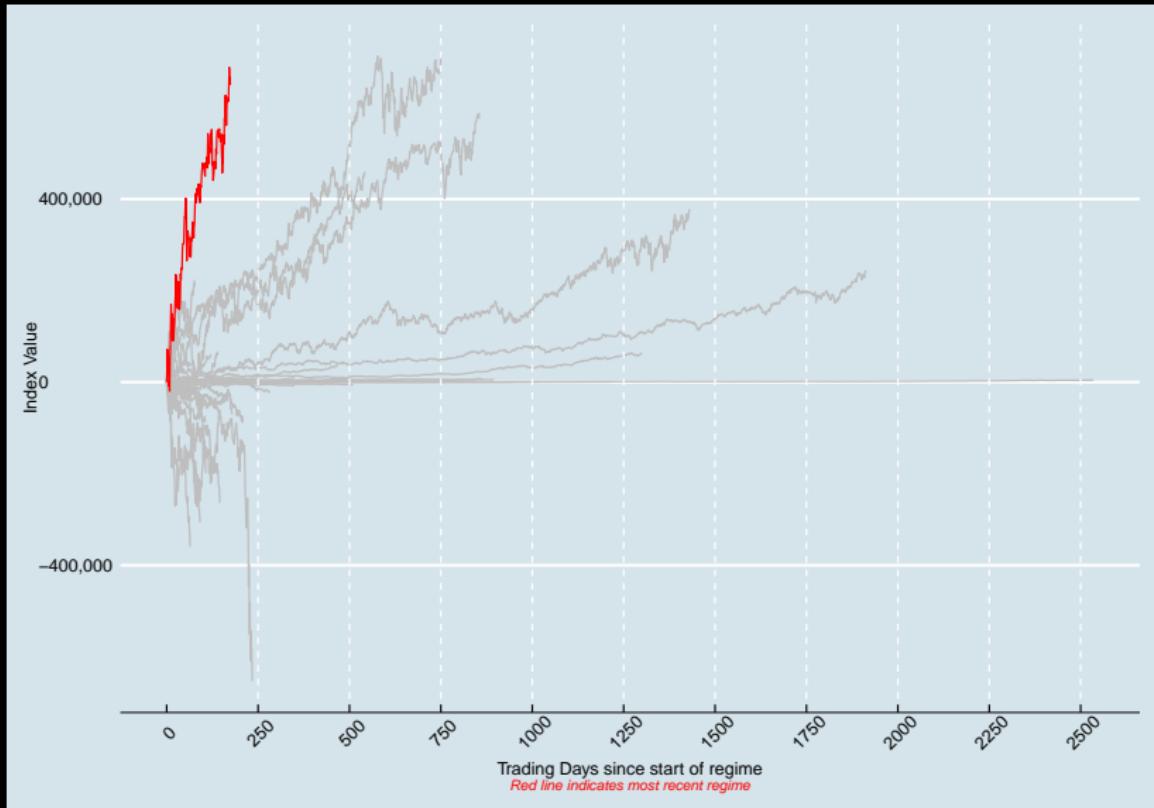
Medical Equipment



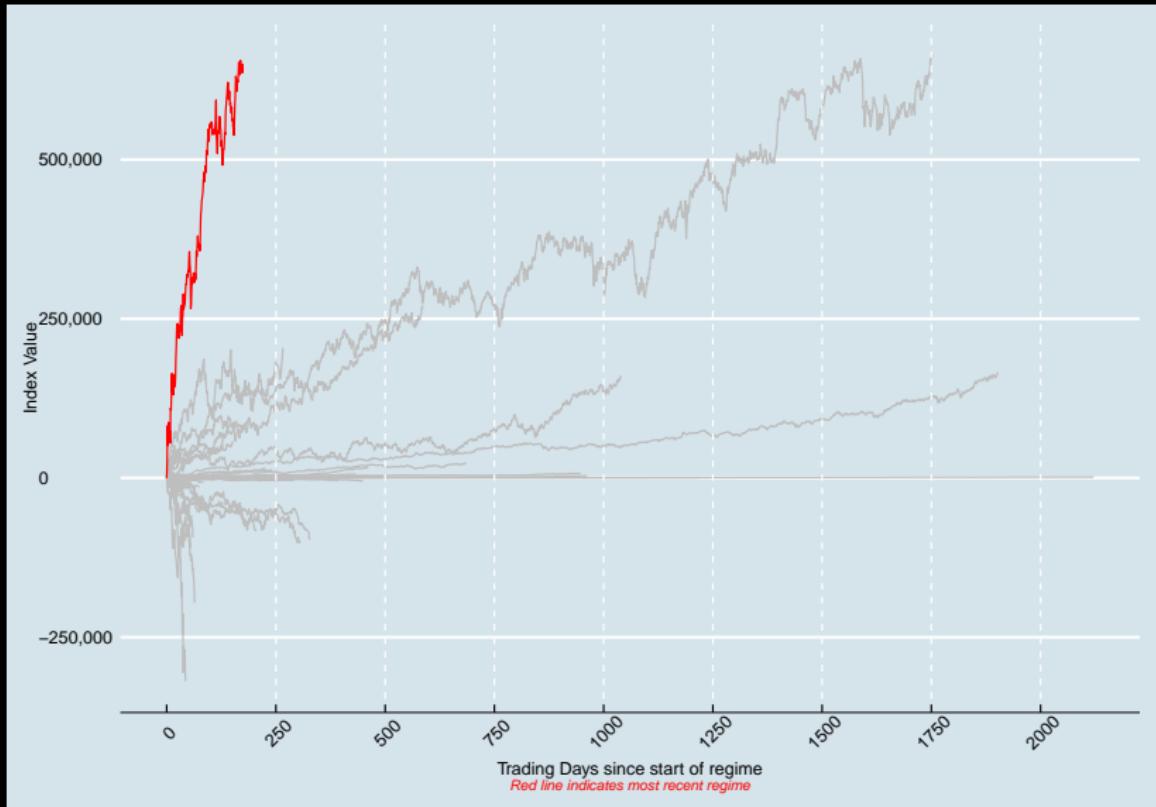
Pharmaceutical Products



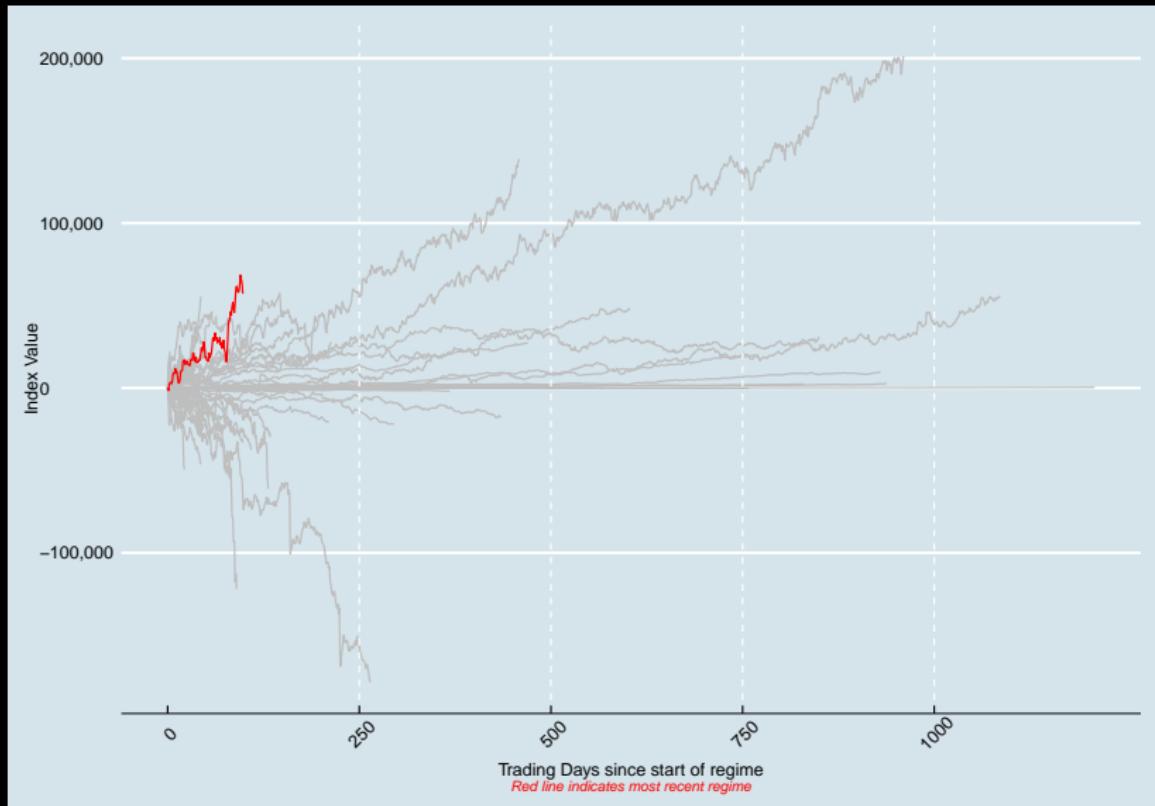
Chemicals



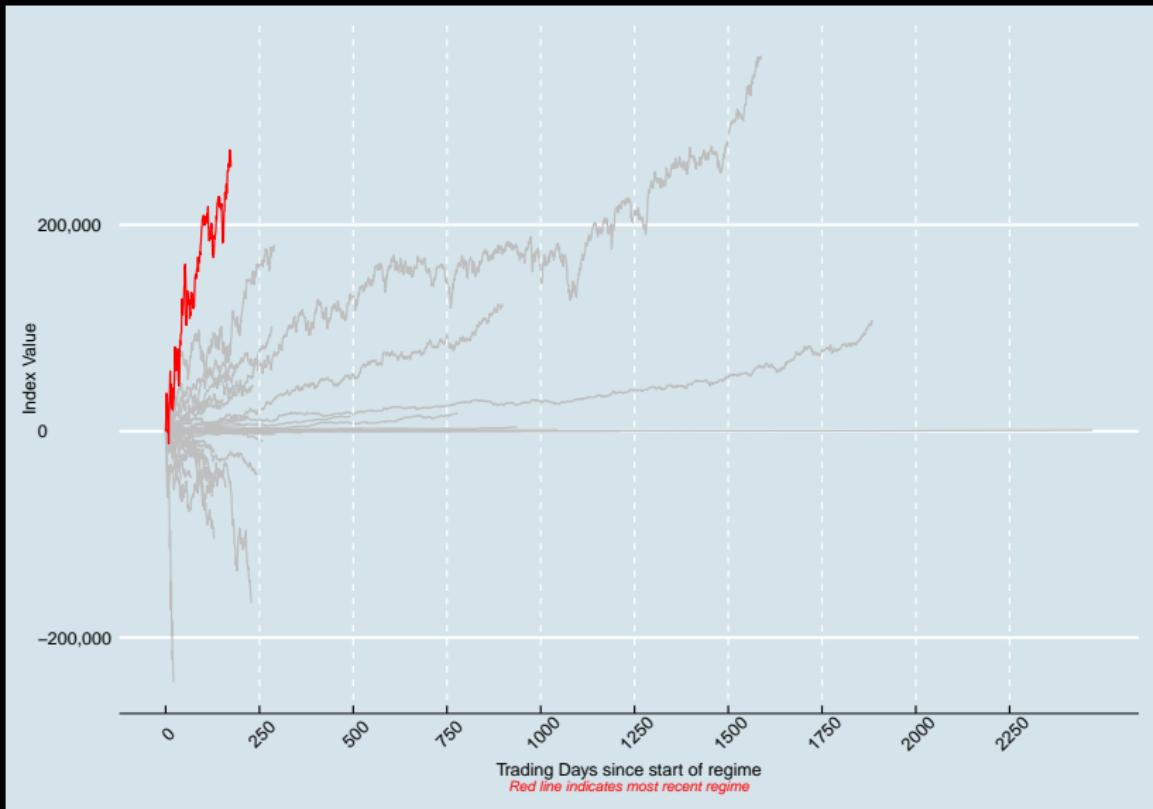
Rubber and Plastic Products



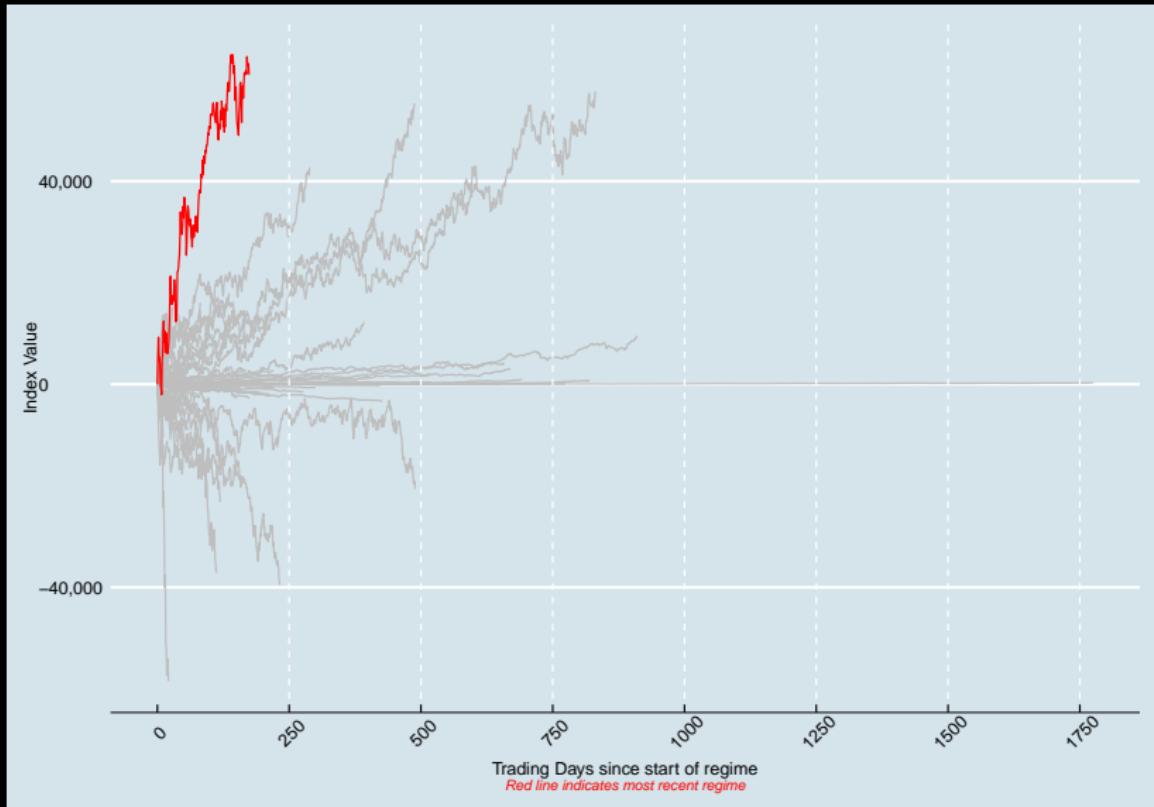
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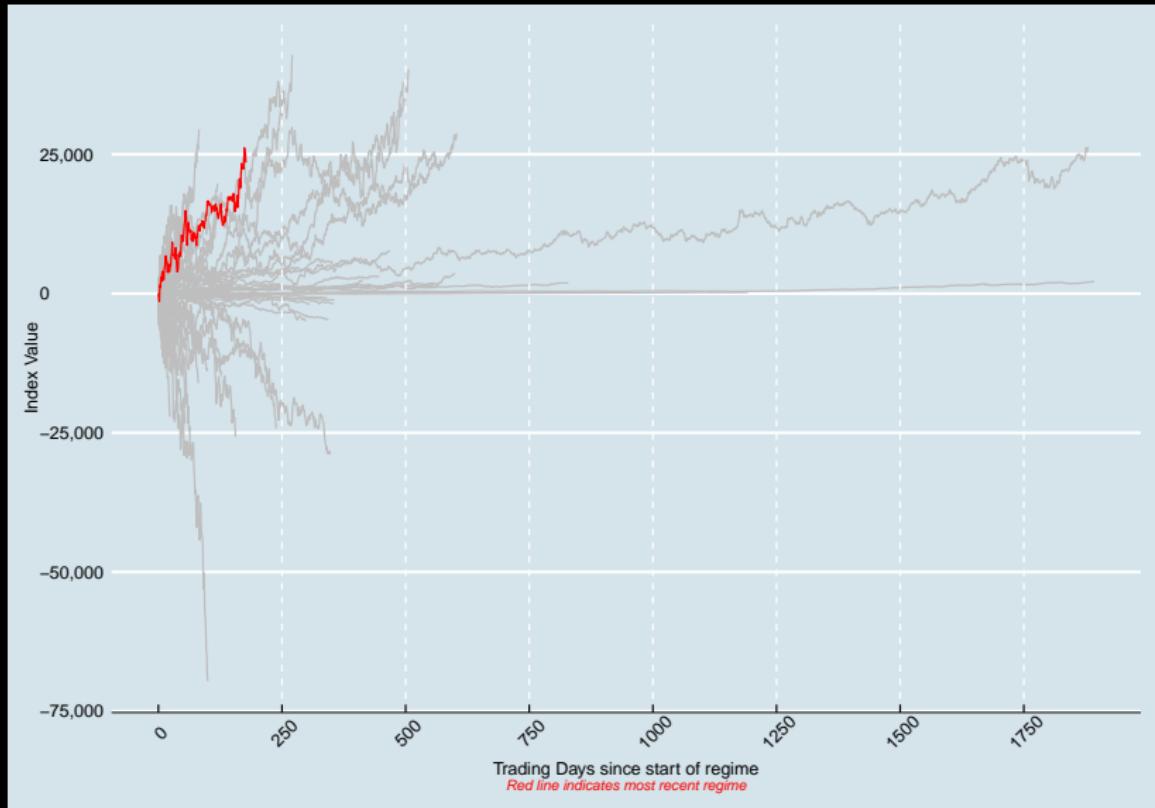
Construction Materials



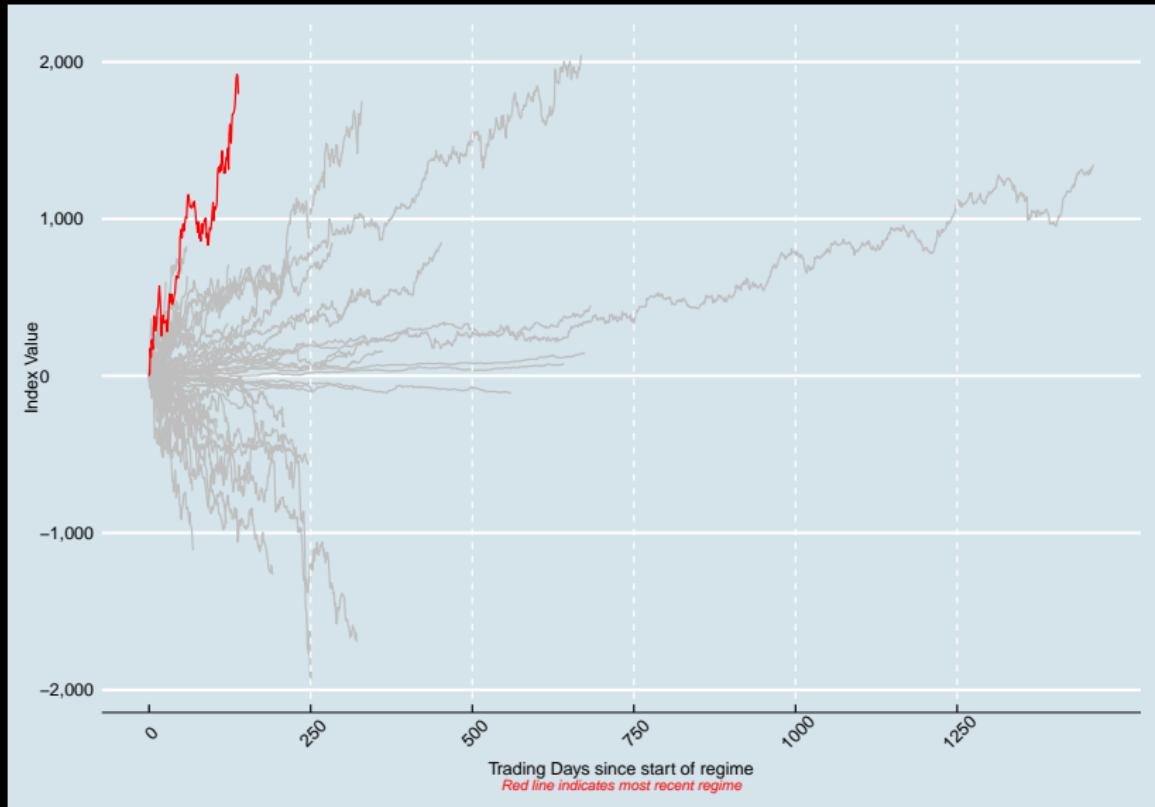
Construction



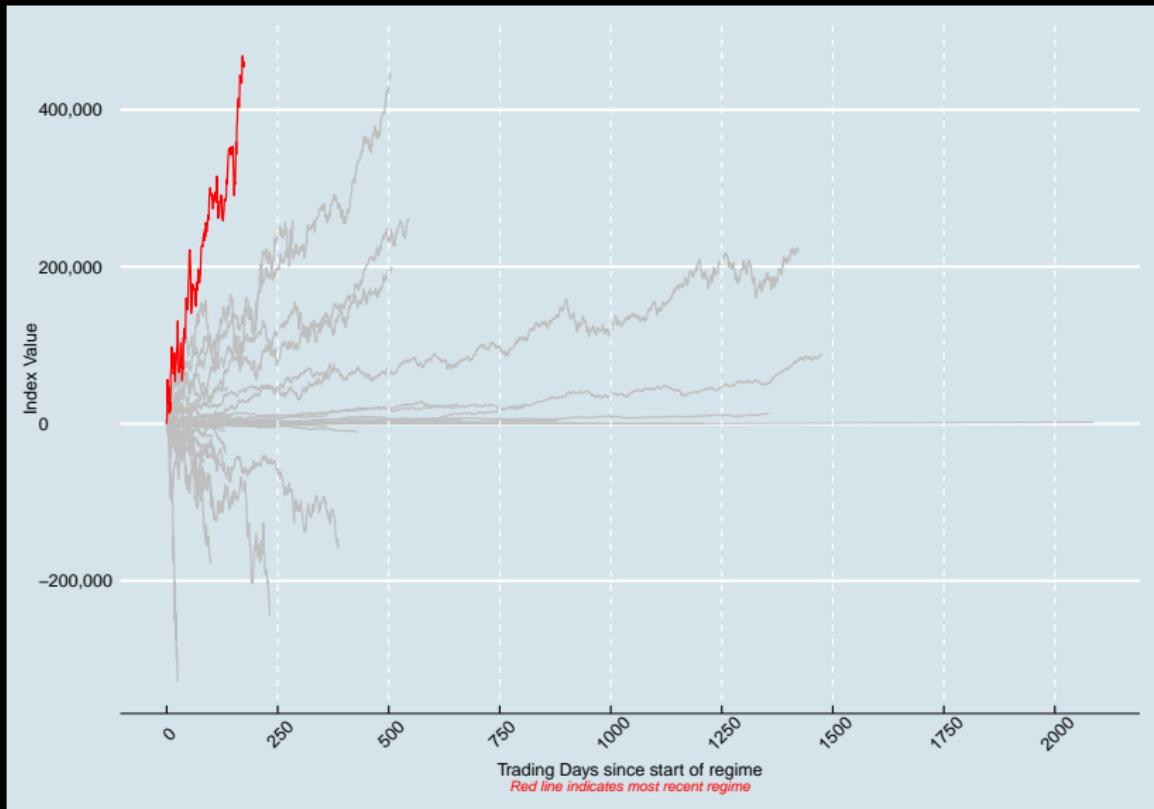
Steel Works Etc.



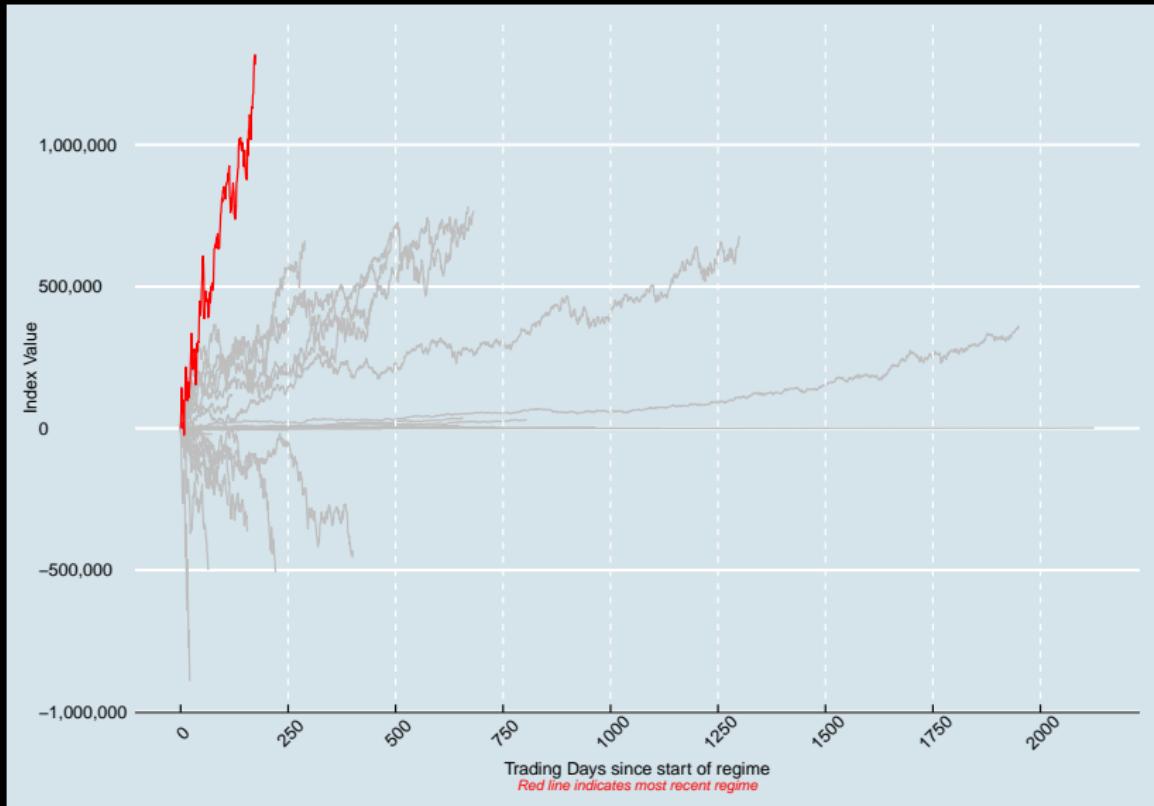
Fabricated Products



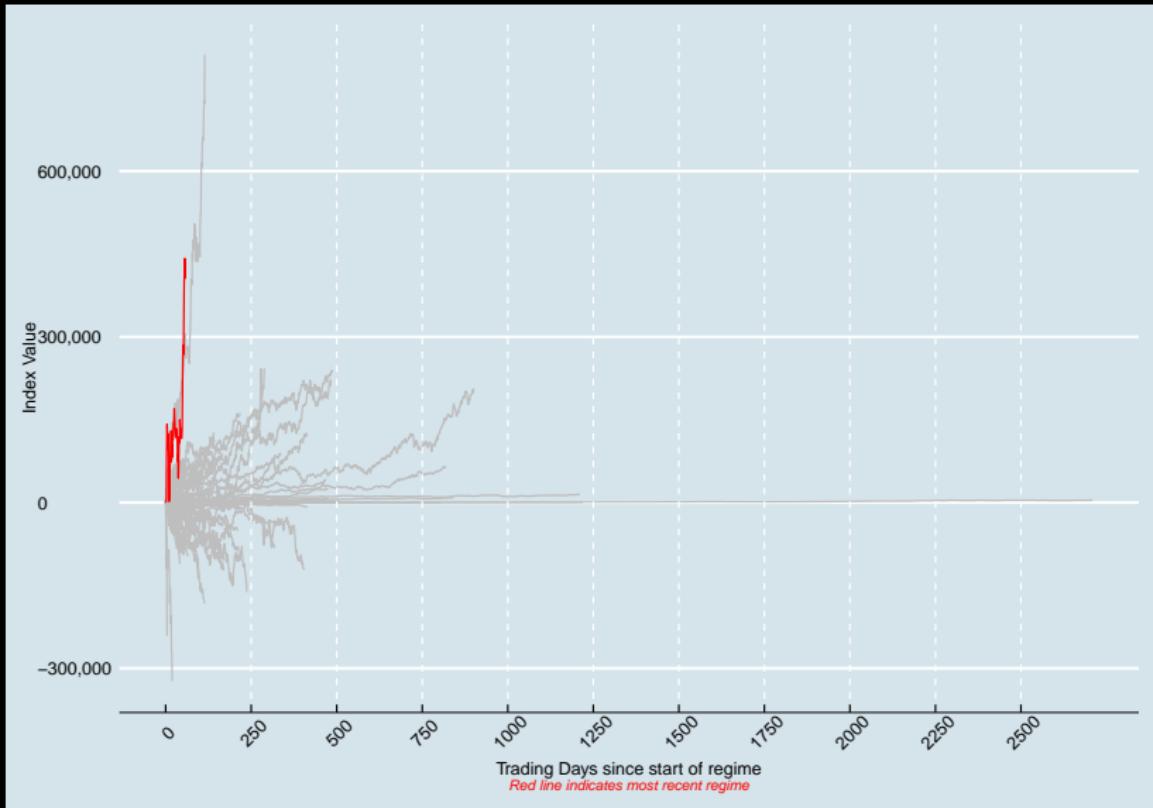
Machinery



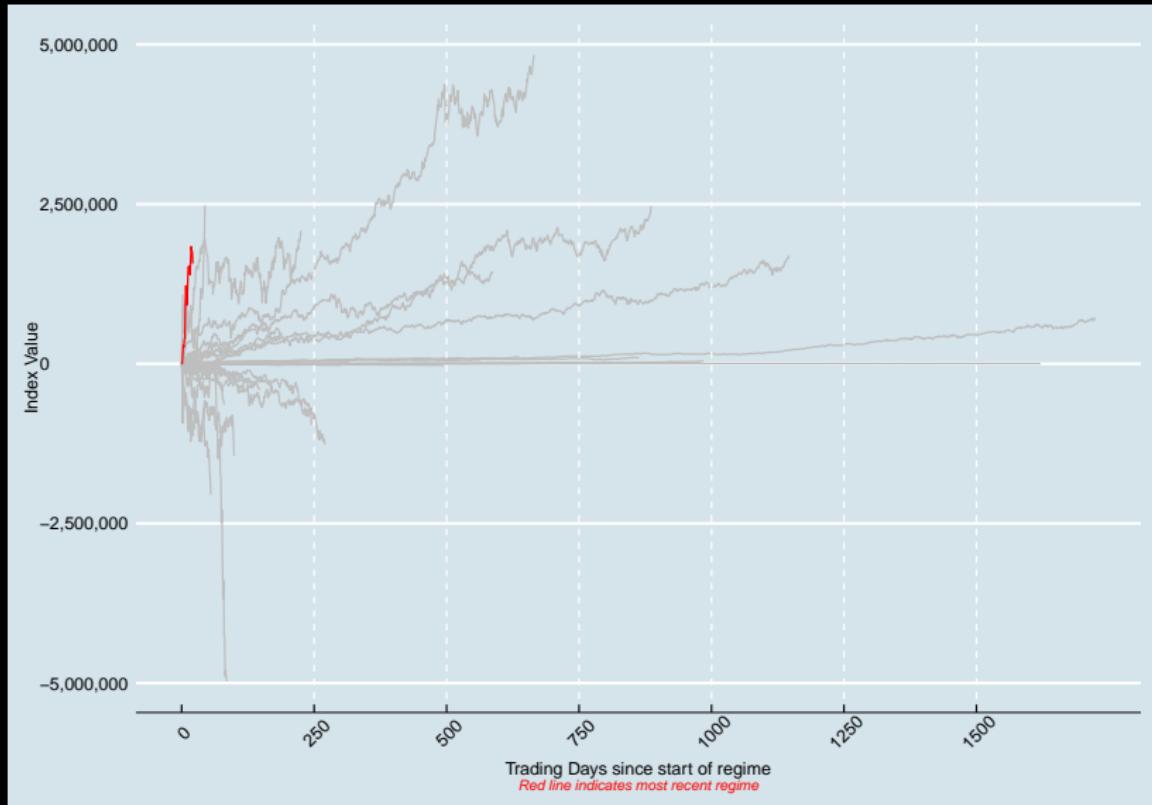
Electrical Equipment



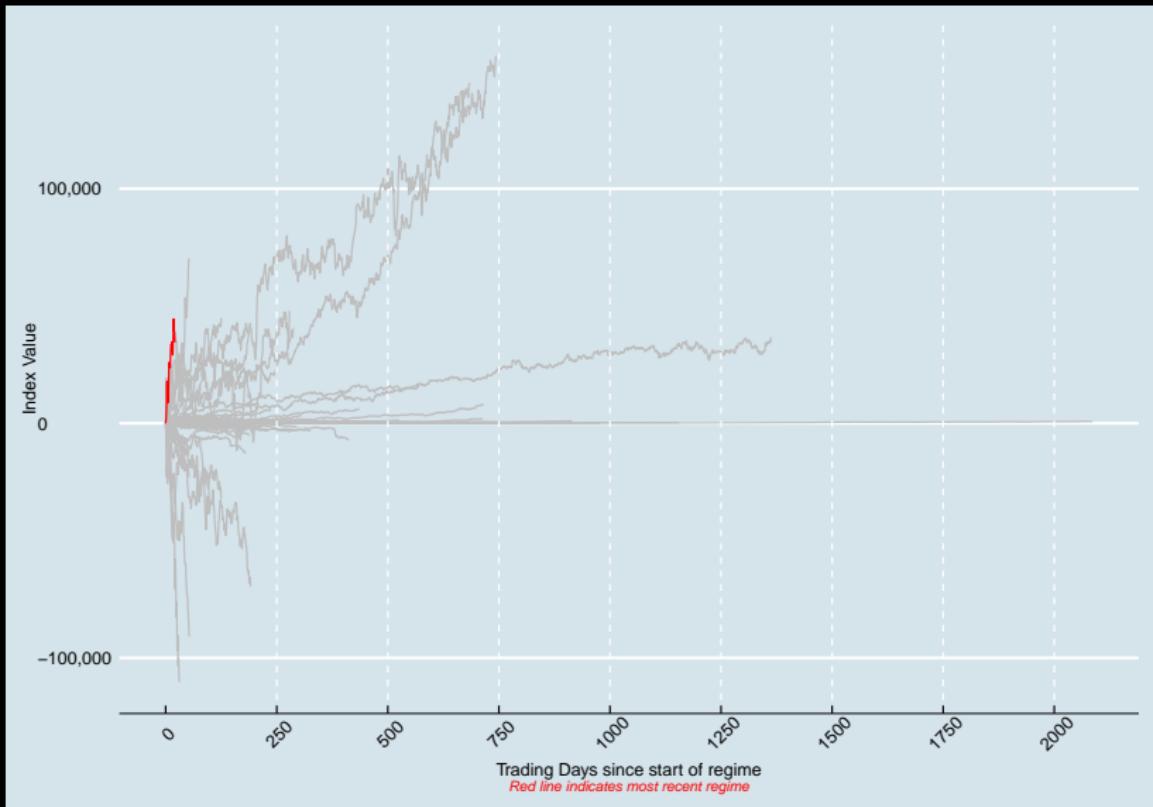
Automobiles



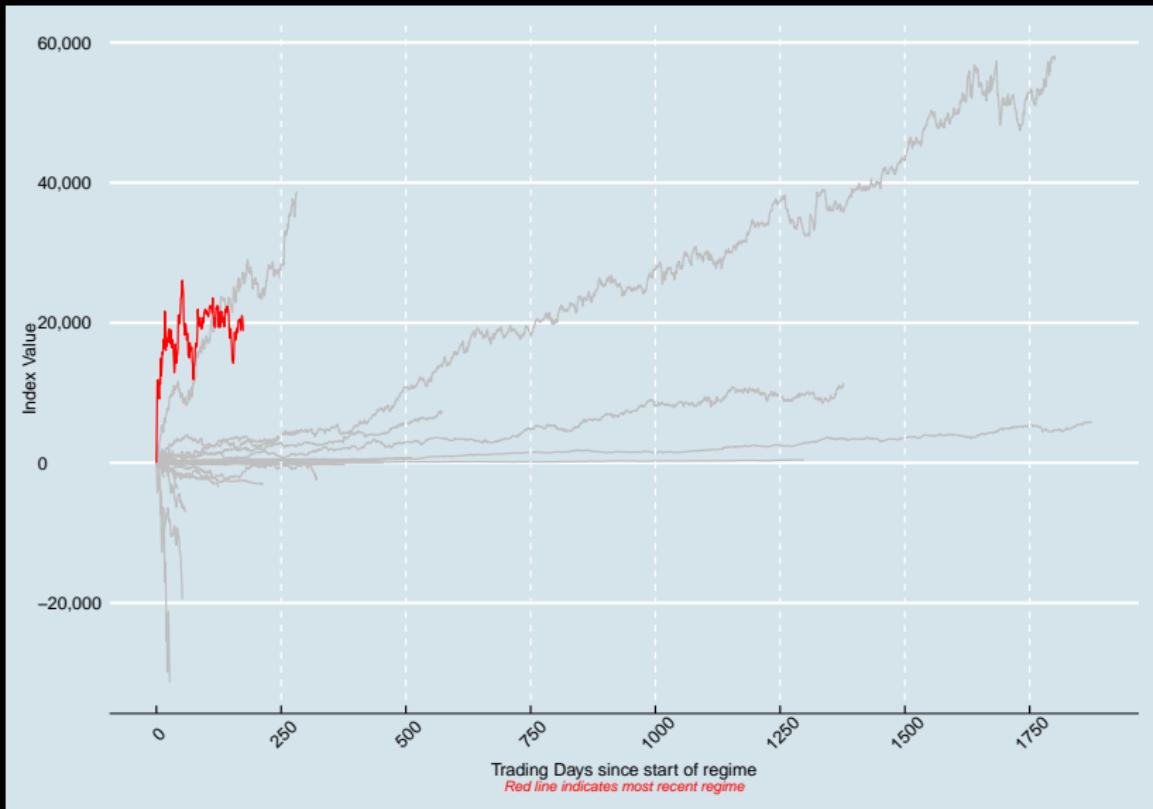
Aircraft



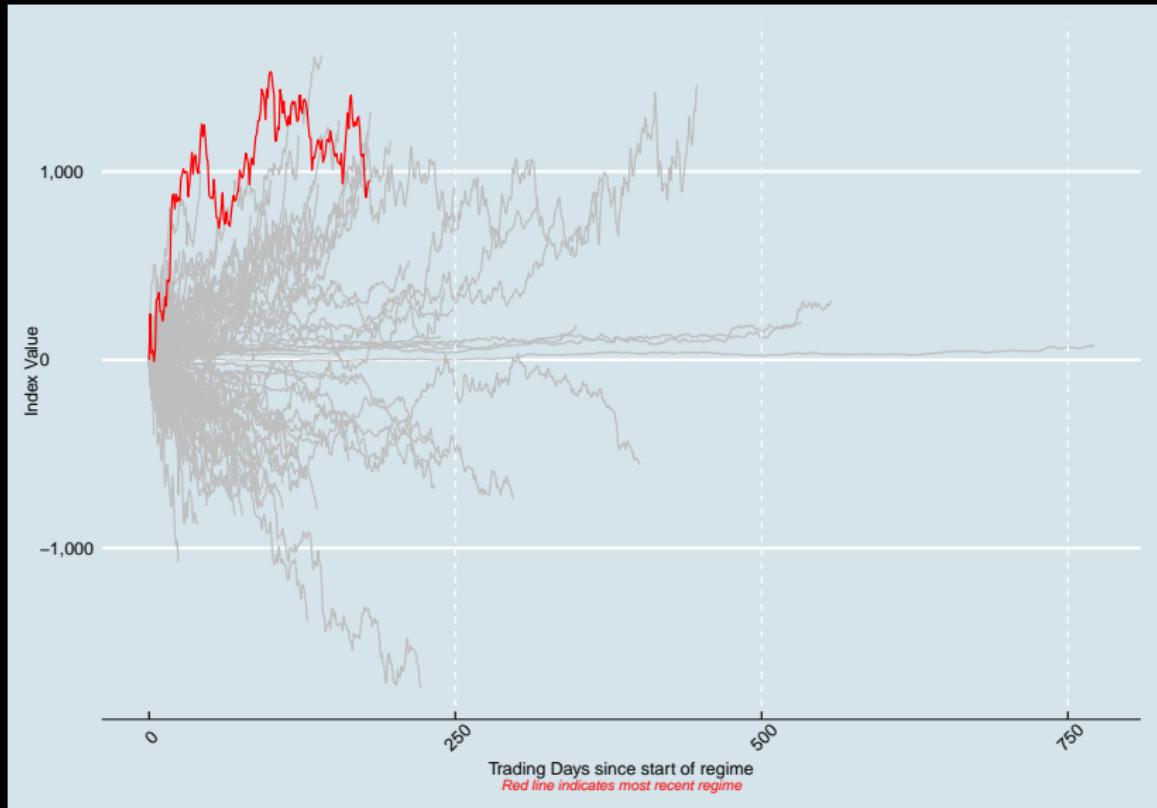
Shipbuilding, Railroad Equipment



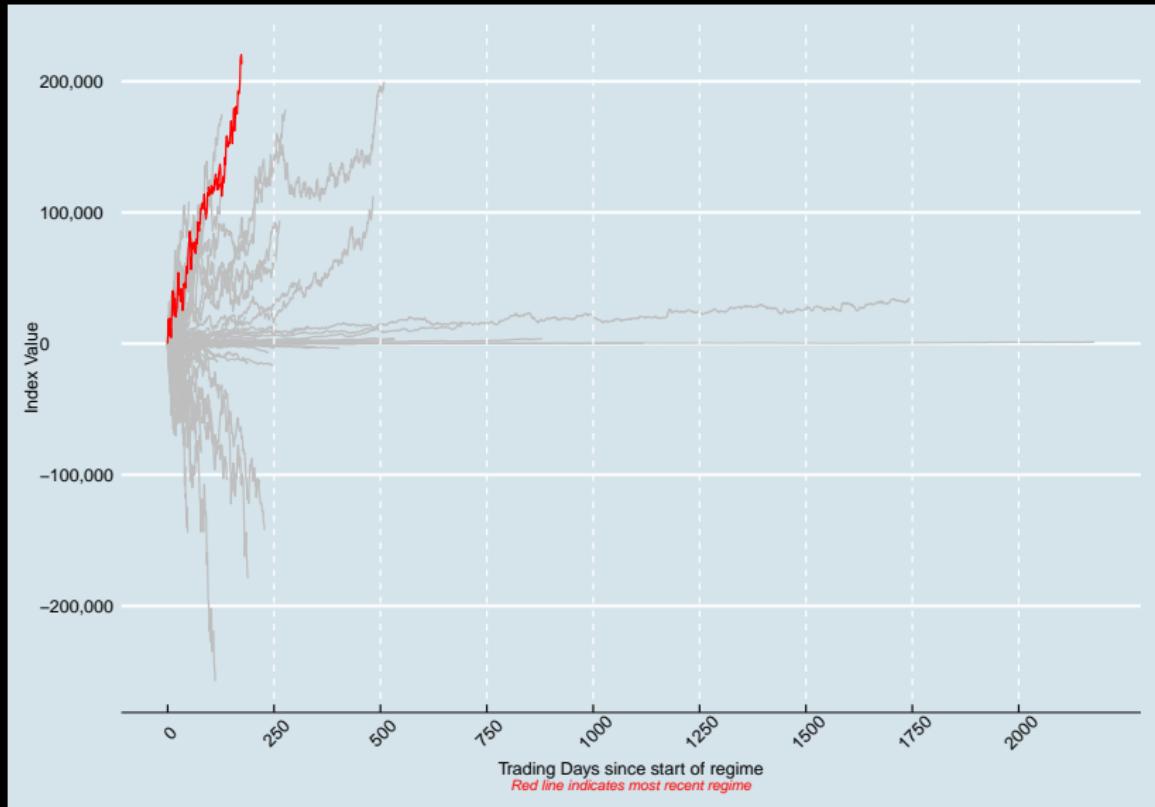
Military Vehicles, Components, and Ordnance



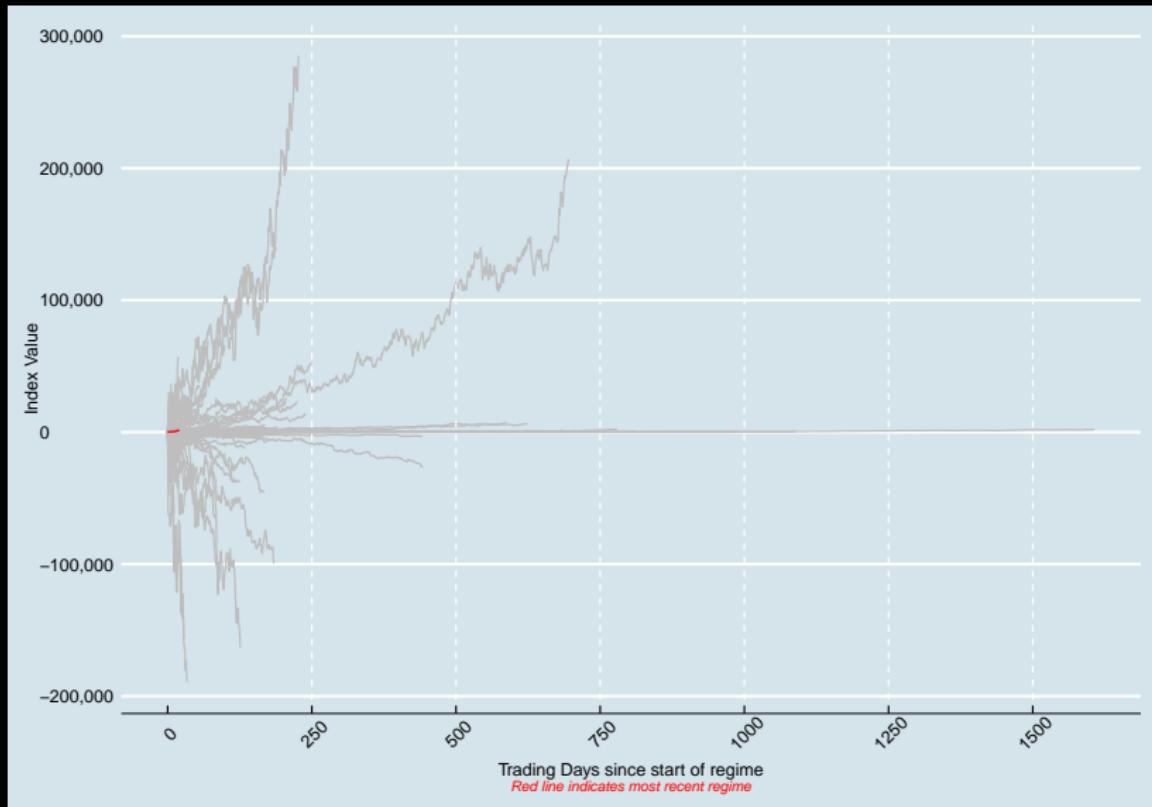
Precious Metals



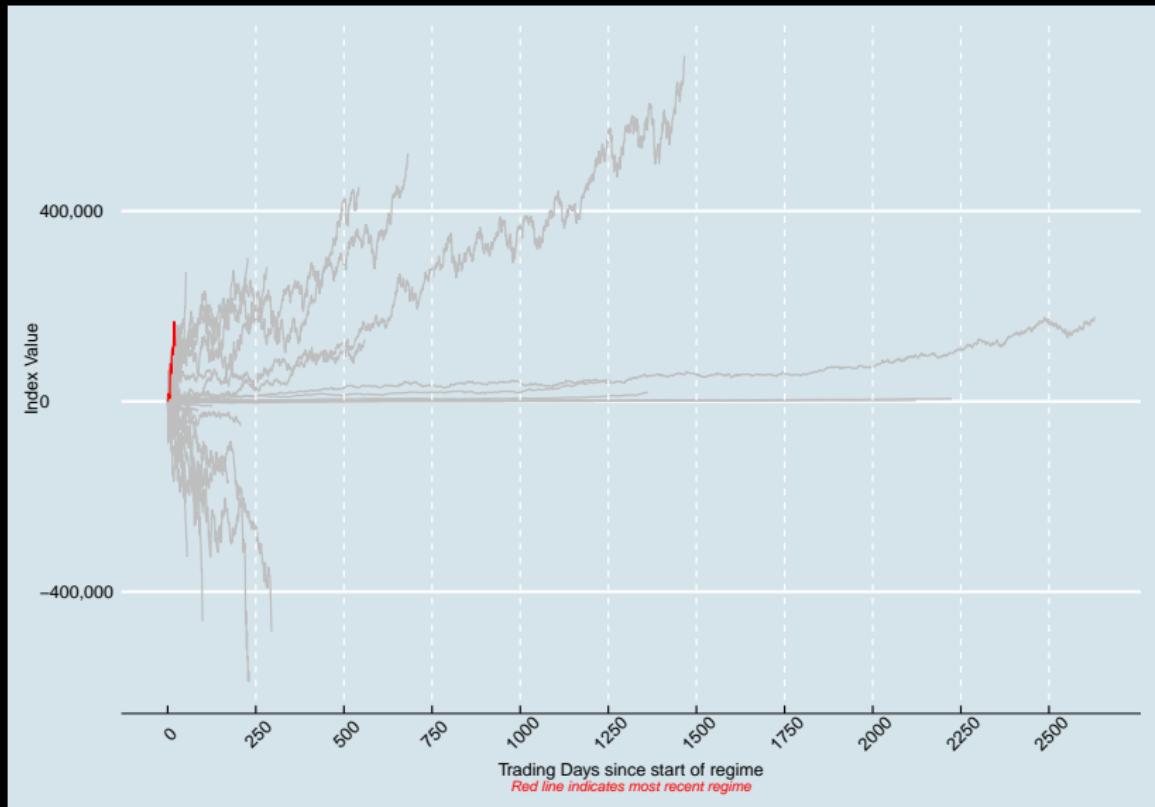
Non-Metallic and Industrial Metal Mining



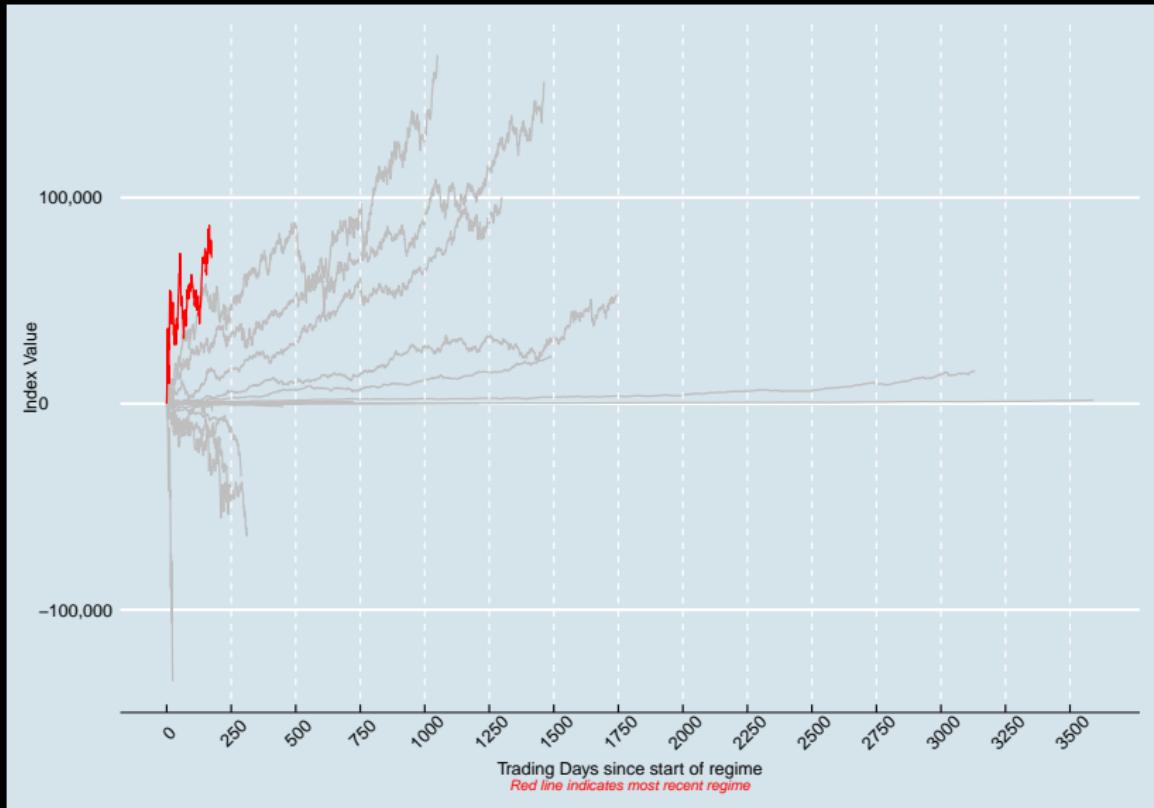
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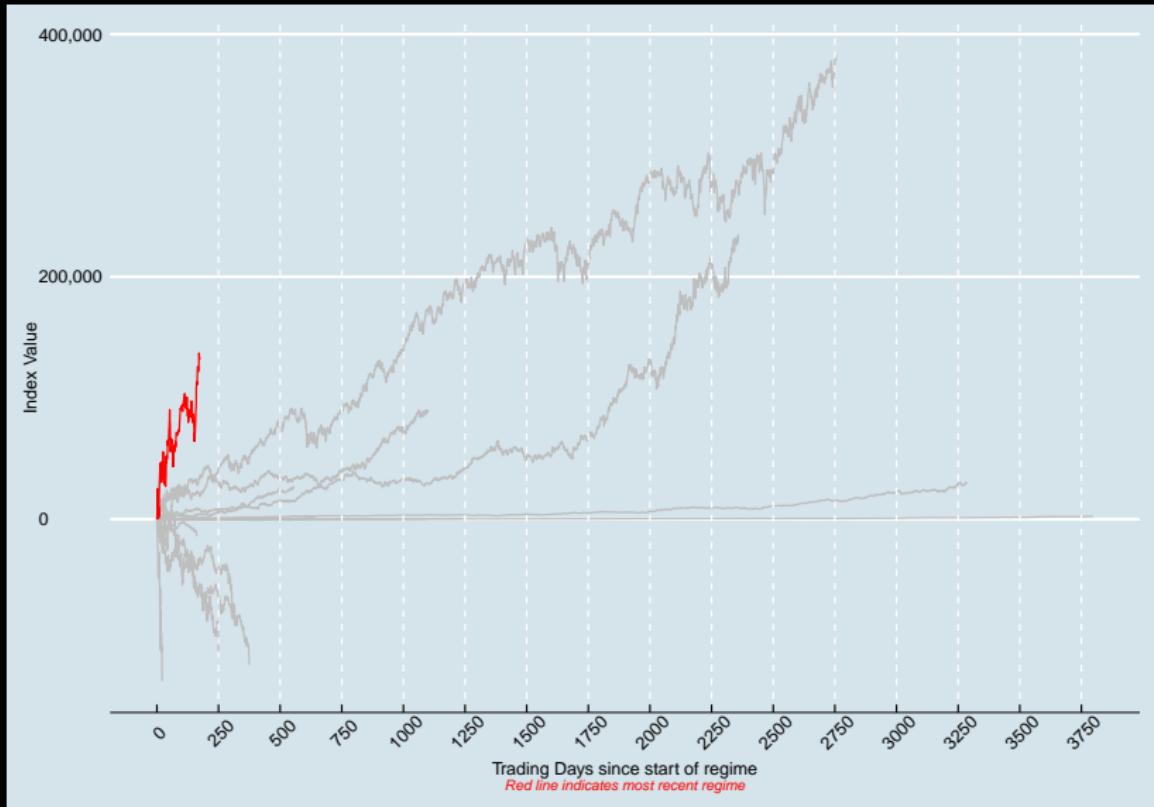
Petroleum and Natural Gas



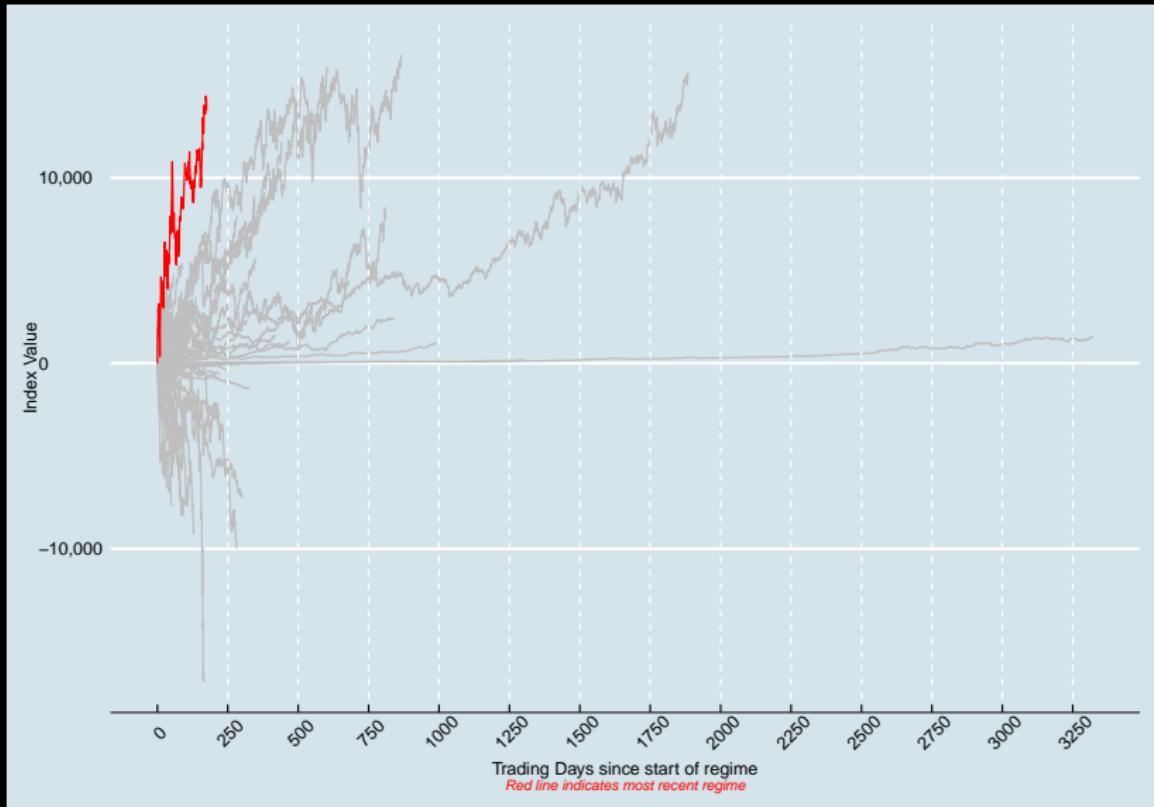
Utilities



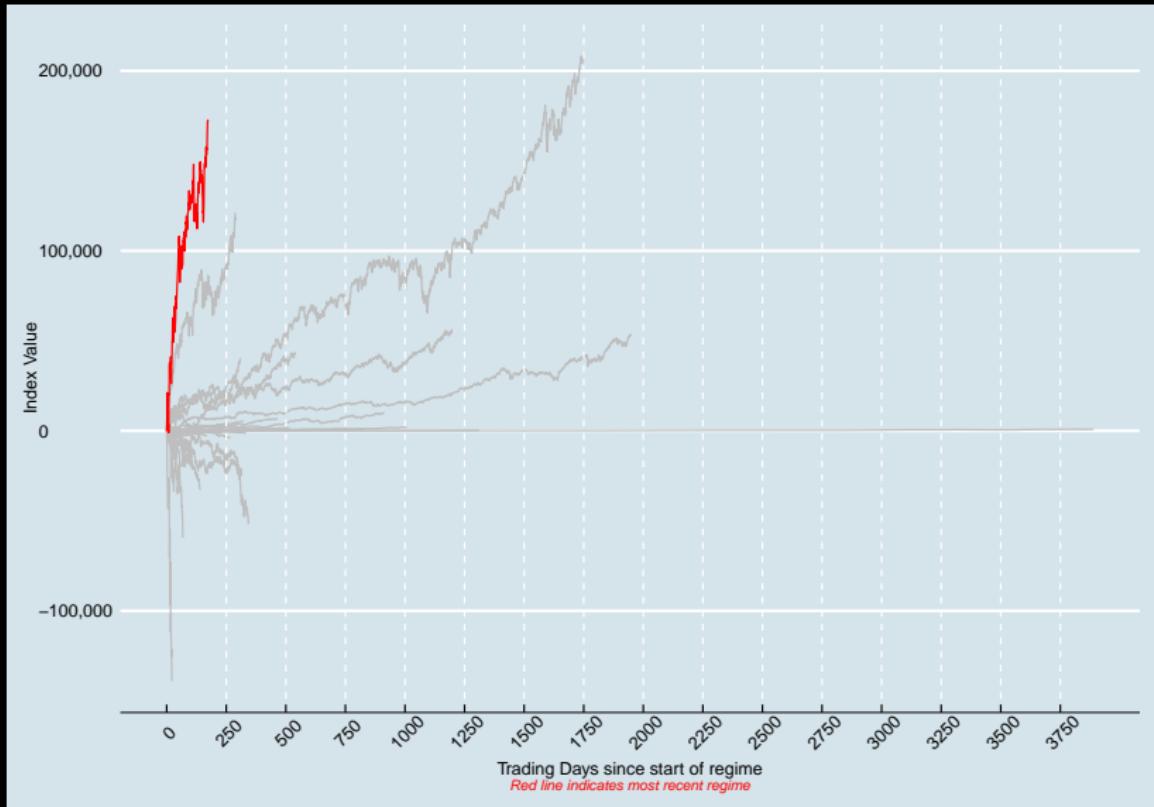
Communication



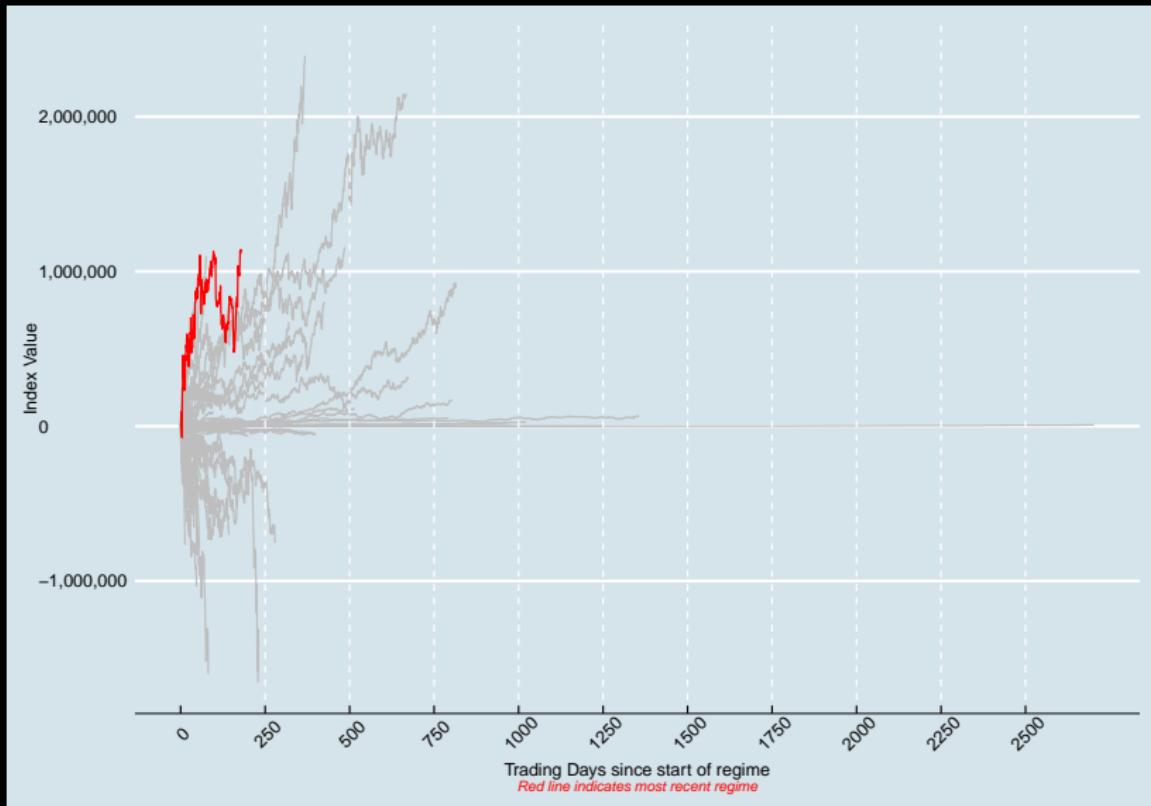
Personal Services



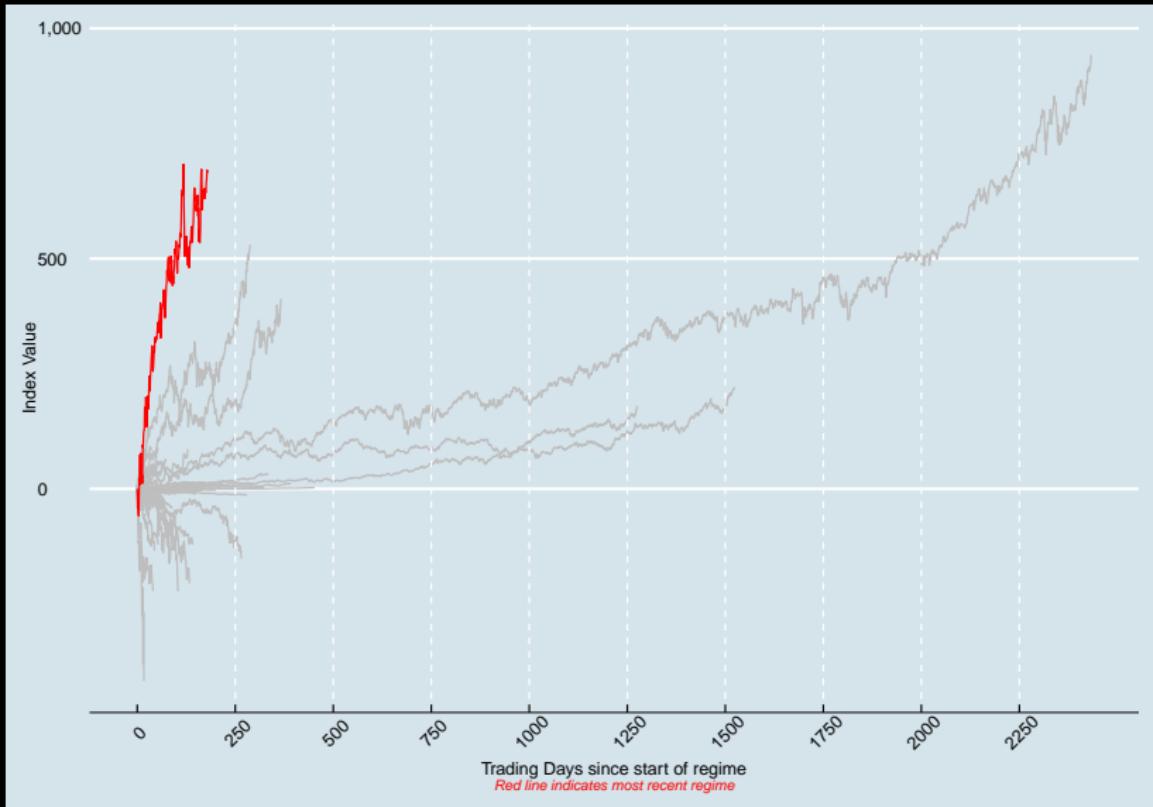
Business Services



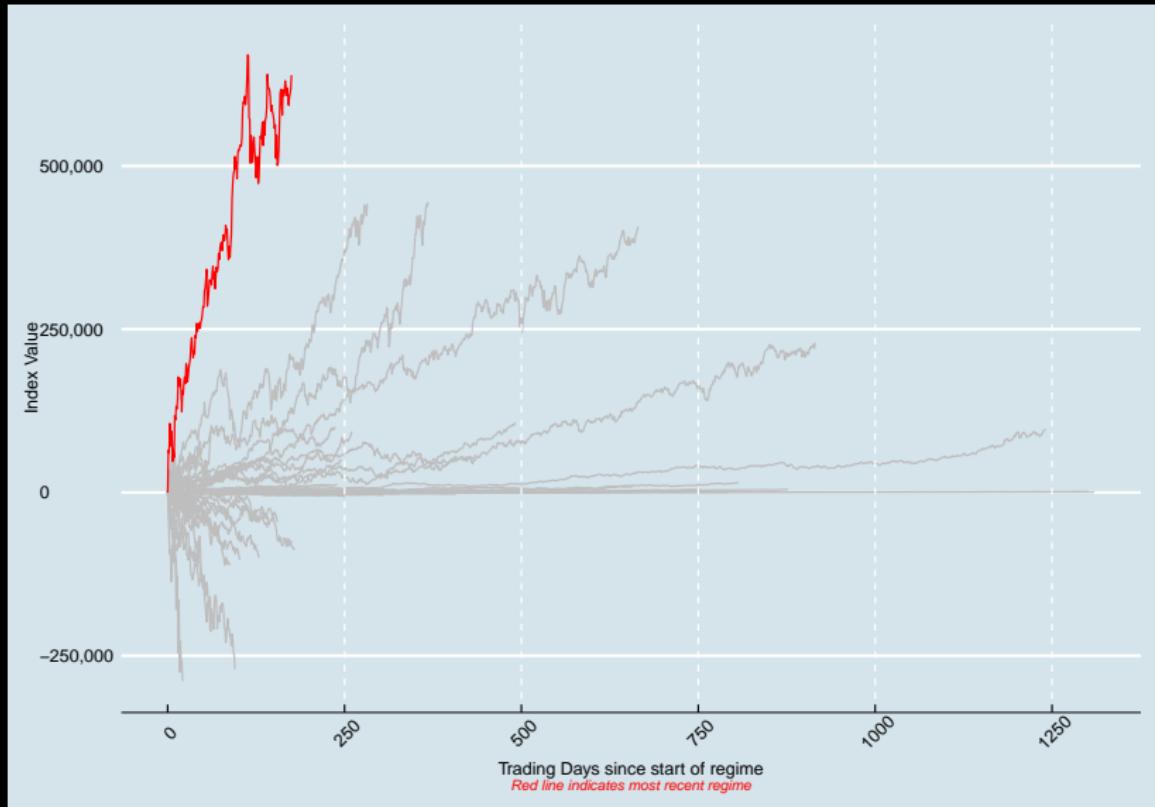
Computers



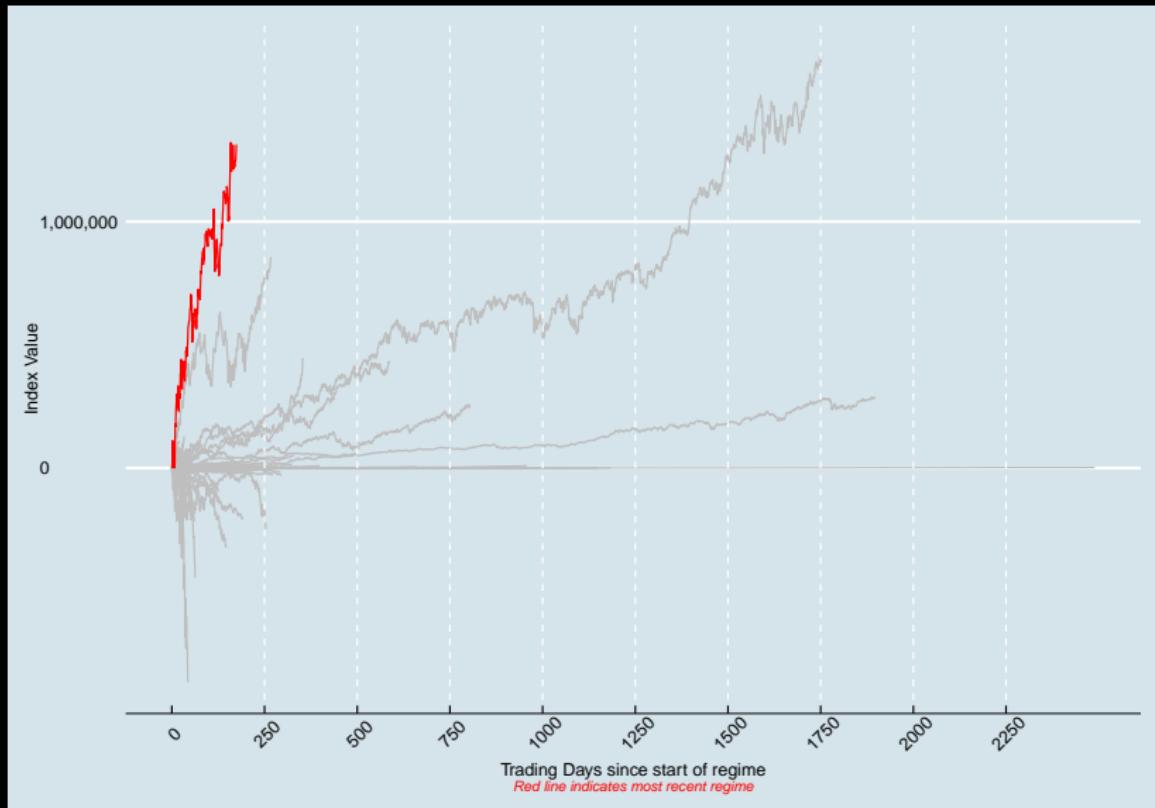
Computer Software



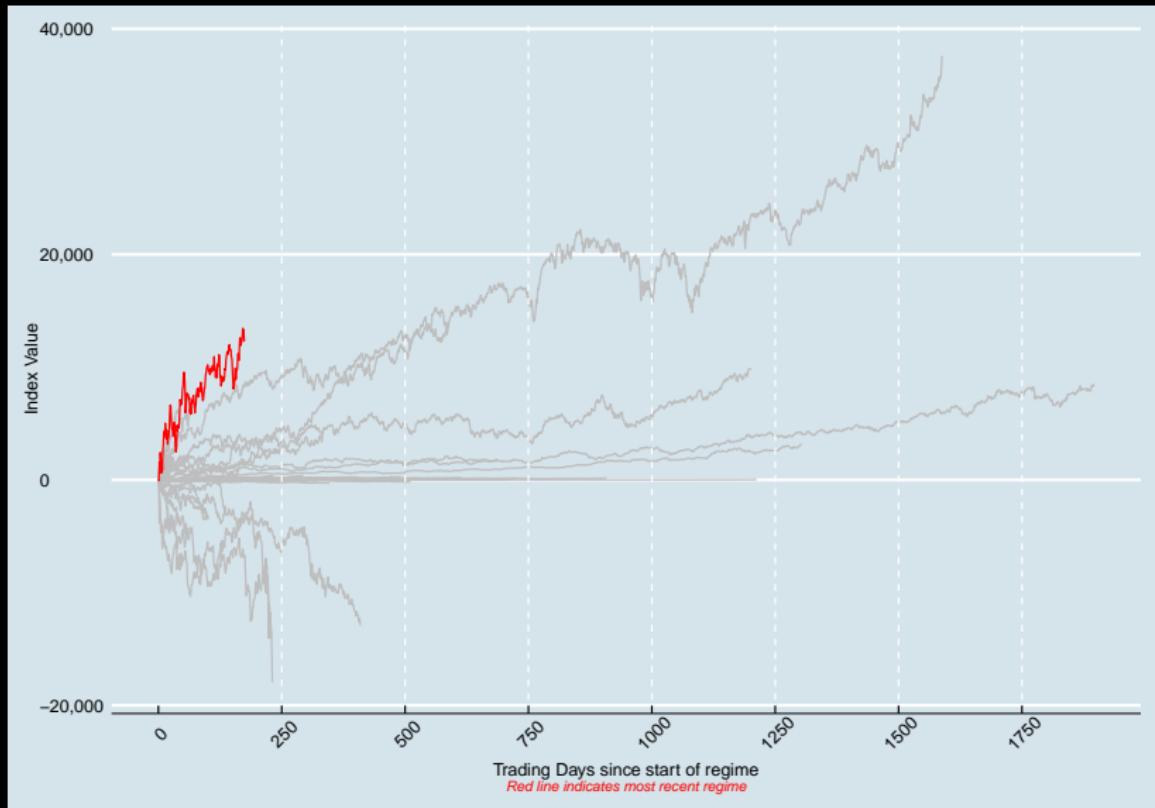
Electronic Equipment



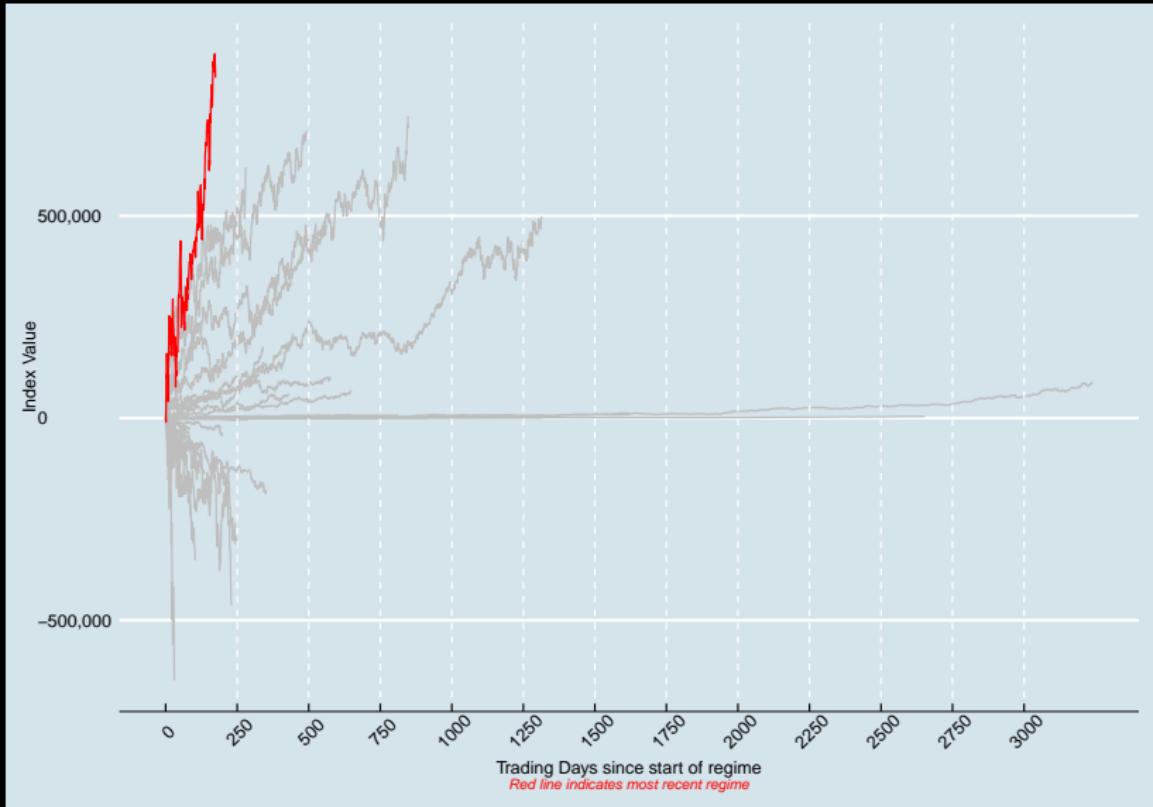
Measuring and Control Equipment



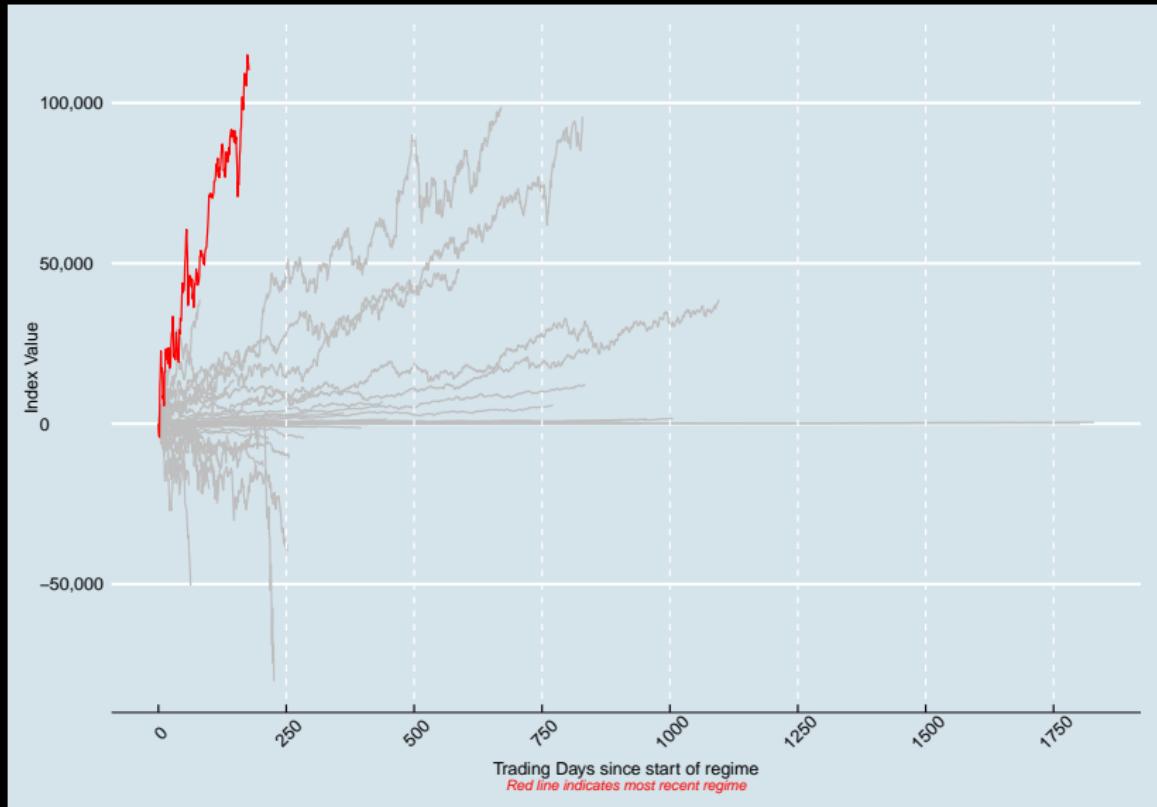
Business Supplies



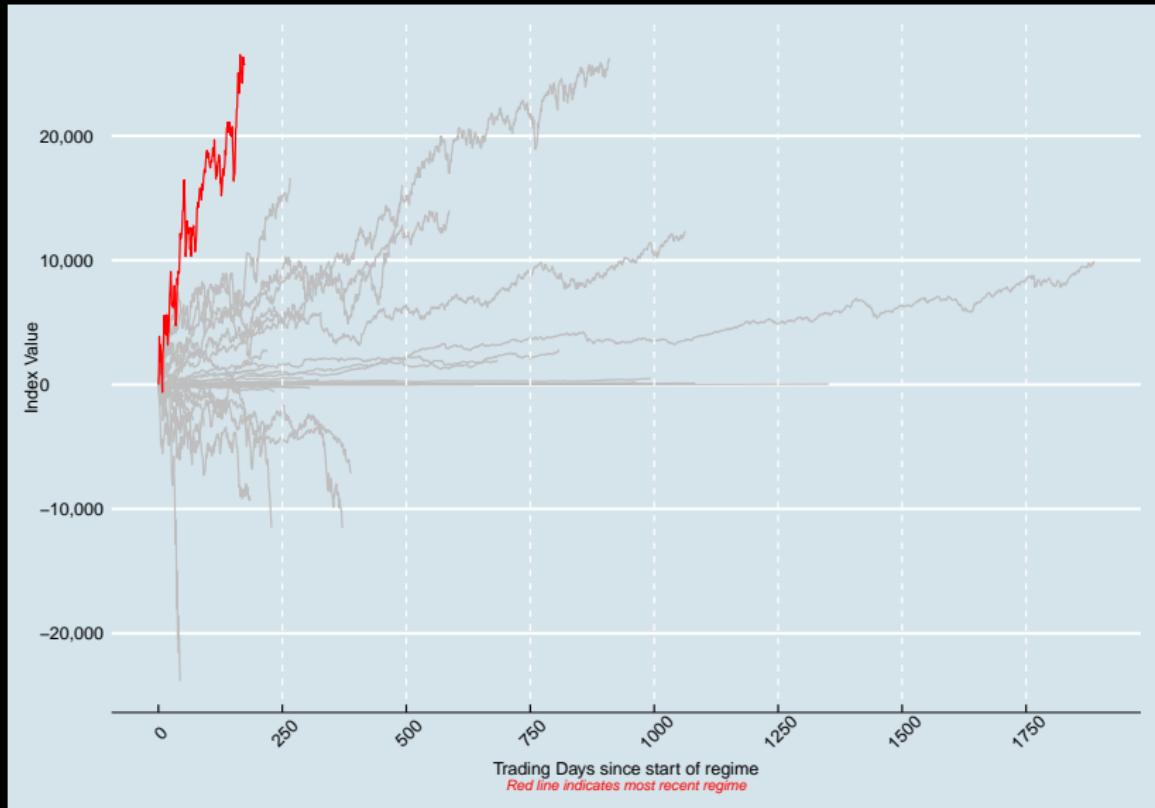
Shipping Containers



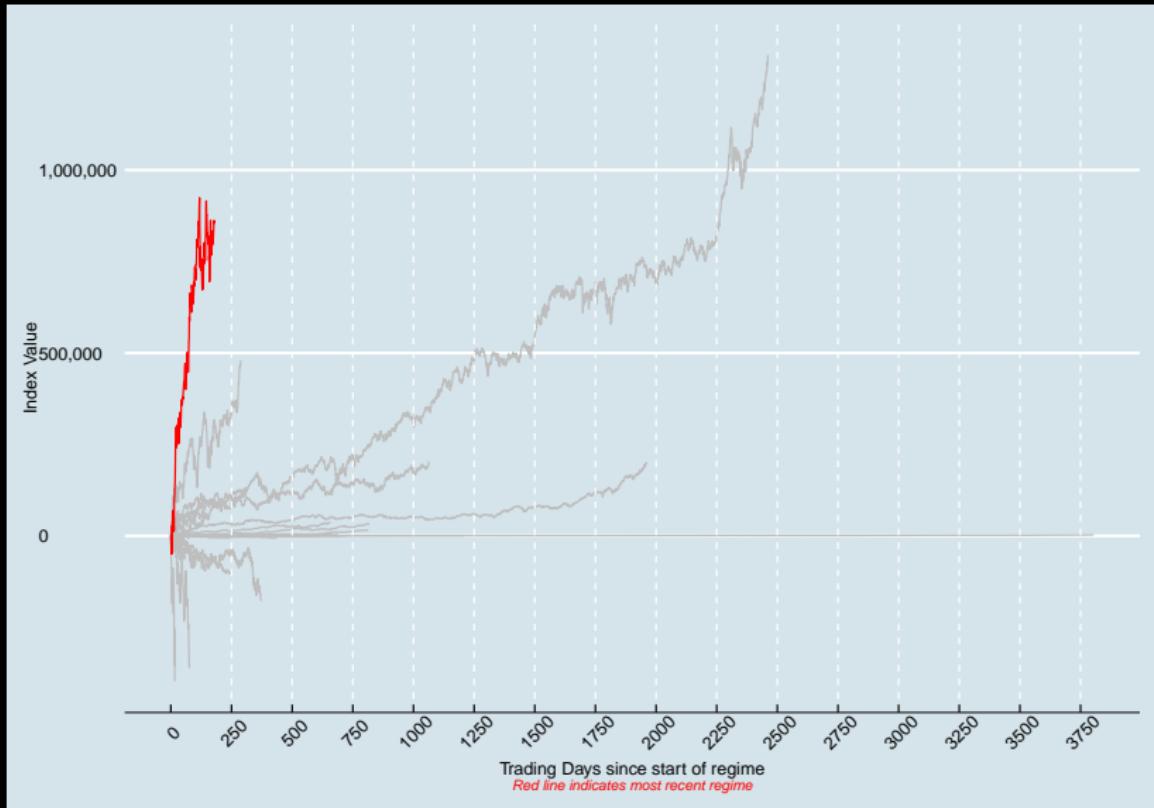
Transportation



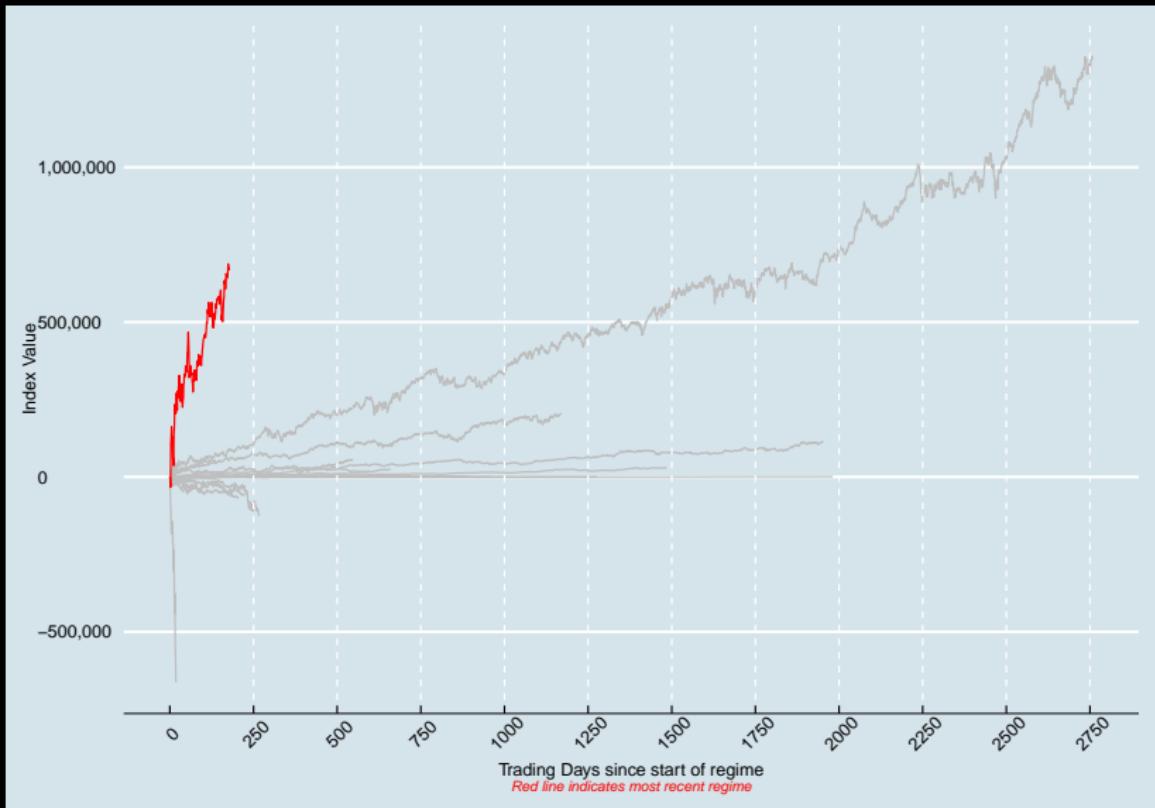
Wholesale



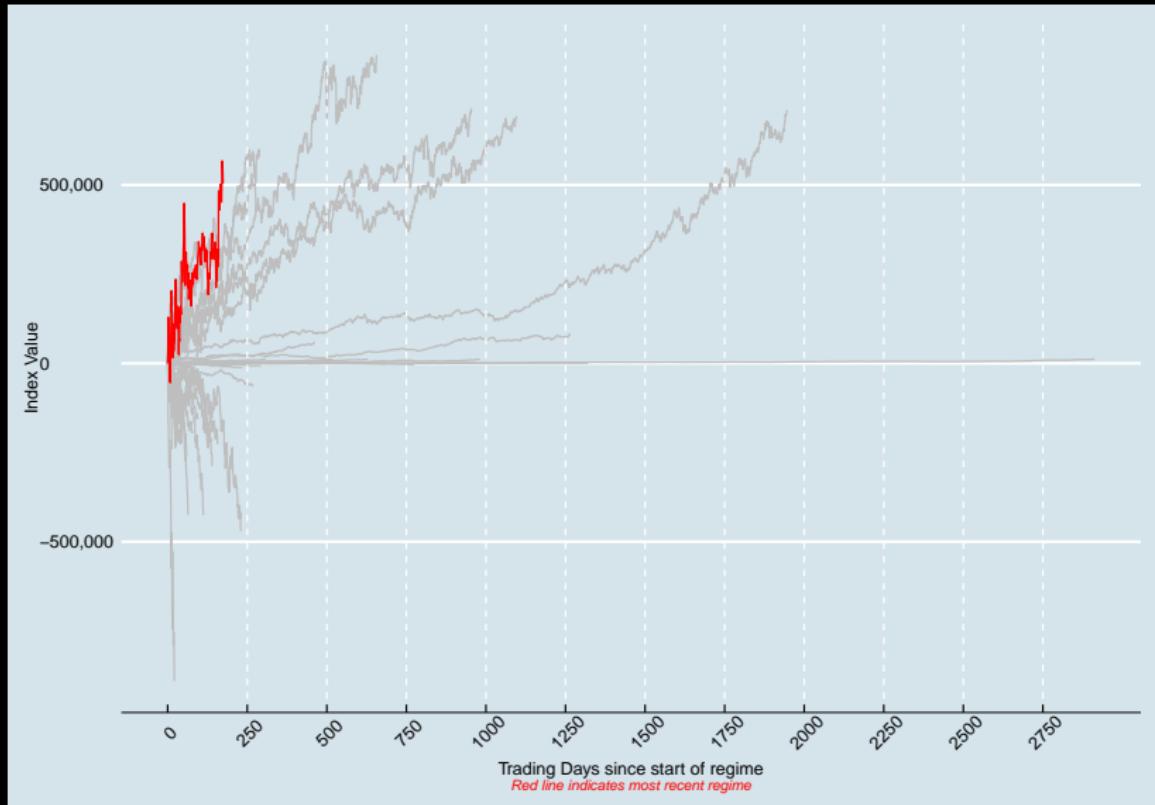
Retail



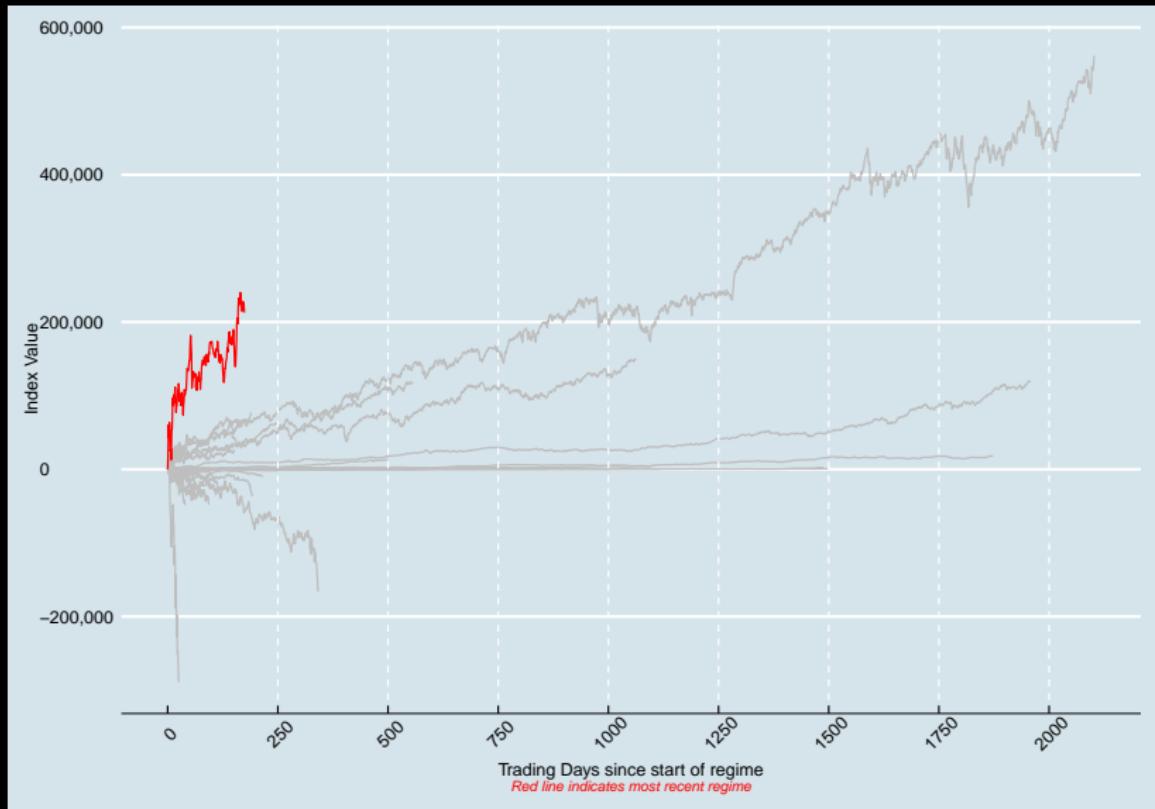
Restaurants, Hotels, Motels



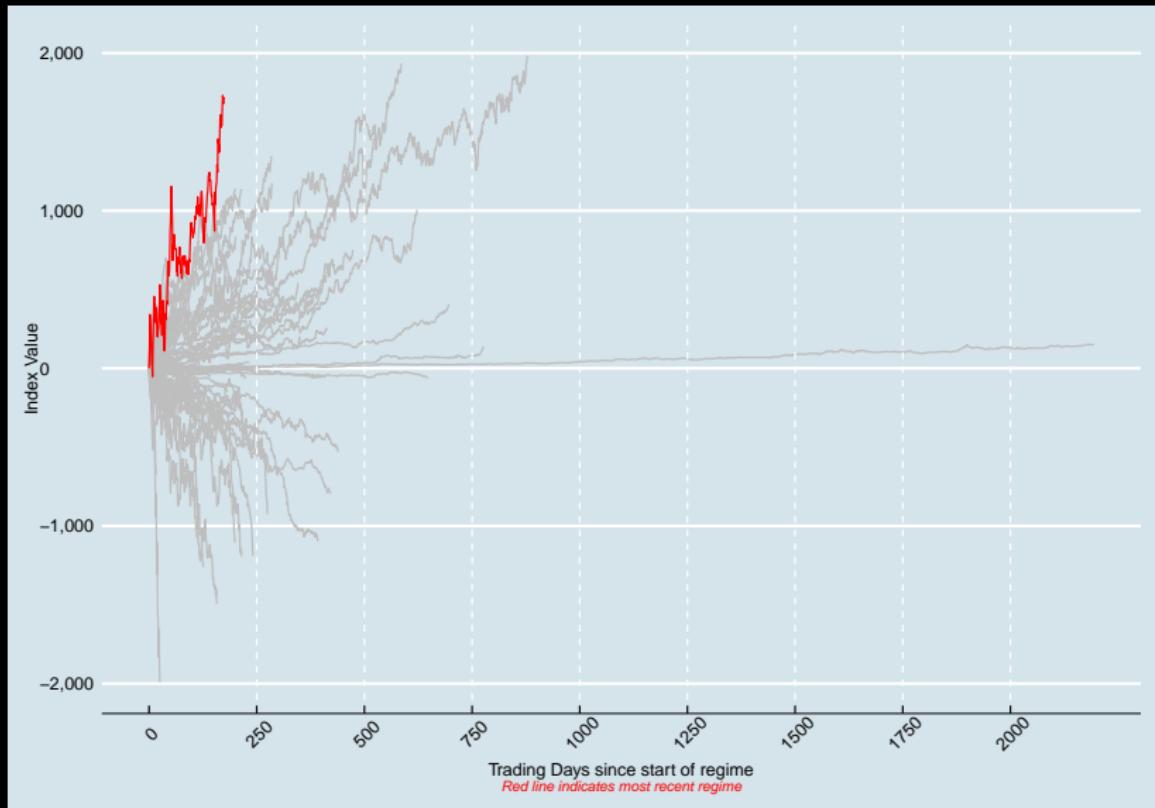
Banking



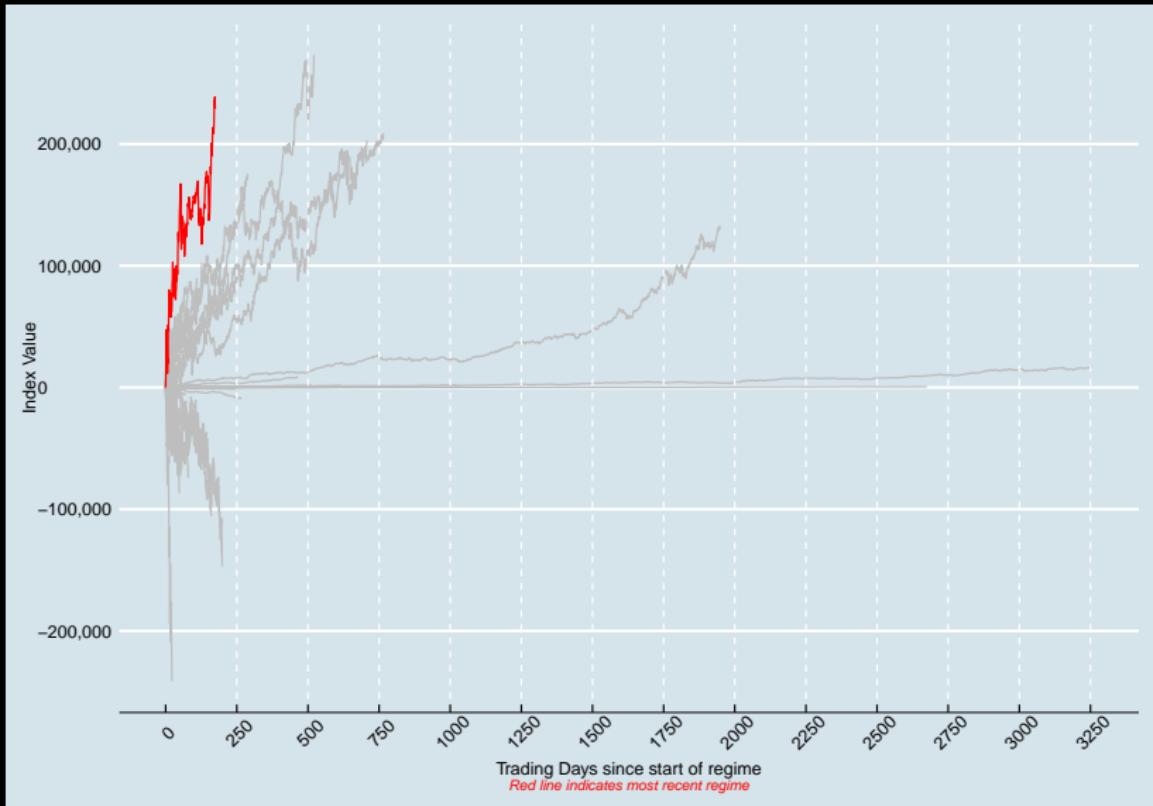
Insurance



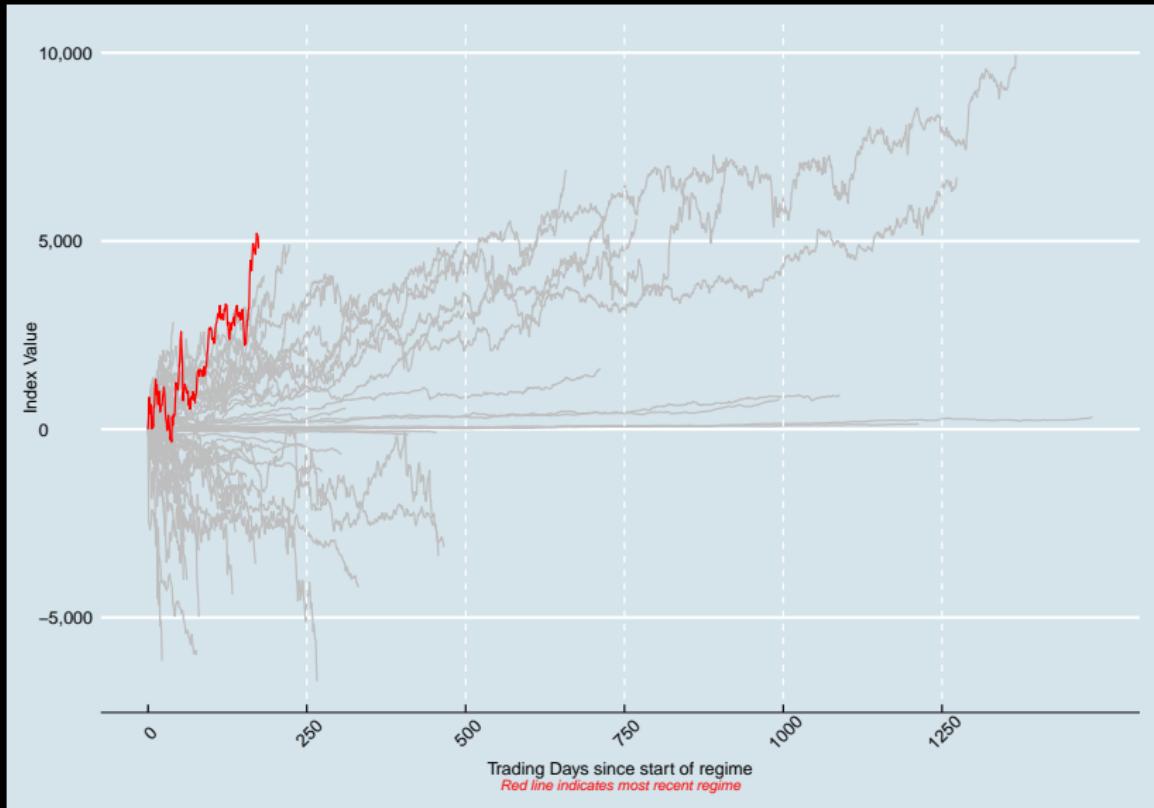
Real Estate



Trading



Other



About Us

Mission of the Market Observatory

- Provide students (college, grad school, life long learners) of finance a forum to explore the markets and economy

Objective

- Students learn by using, RA's learn by doing

Strategy

- Regularly publish analyses & visualizations of financial and economic data that is educational, but not readily available elsewhere

Founders

- Mike Aguilar (CoFounder & Director 2000-present)
- Jiaxi Li (CoFounder 2000-present)

Questions/Comments/Requests

Do you have questions regarding the analysis?

Do you have a request for our students?

Do you want to join the Market Observatory?

Contact Prof. Aguilar at maguilar@email.unc.edu

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