

Supplementary Material

I group the data using Bernanke et al. (2005) categories from FRED-MD as of May 2021. The associated index for the transformation of variables are: 1 if no transformation, 2 if first-differenced, 3 if two-times differenced, 4 if the variable is in logarithm, 5 when the variables are first differenced after taking logarithms, 6 if twice differenced after taking logarithm, 7 when growth is differenced.

Real output and income				
	Variable	Index	Description	Sample
1	RPI	5	Real Personal Income	1959:01-2021:05
2	W875RX1	5	Real personal income ex transfer receipts	1959:01-2021:05
3	INDPRO	5	IP Index	1959:01-2021:05
4	IPFPNSS	5	IP: Final Products and Nonindustrial Supplies	1959:01-2021:05
5	IPFINAL	5	IP: Final Products (Market Group)	1959:01-2021:05
6	IPCONGD	5	IP: Consumer Goods	1959:01-2021:05
7	IPDCONGD	5	IP: Durable Consumer Goods	1959:01-2021:05
8	IPNCONGD	5	IP: Nondurable Consumer Goods	1959:01-2021:05
9	IPBUSEQ	5	IP: Business Equipment	1959:01-2021:05
10	IPMAT	5	IP: Materials	1959:01-2021:05
11	IPDMAT	5	IP: Durable Materials	1959:01-2021:05
12	IPNMAT	5	IP: Nondurable Materials	1959:01-2021:05
13	IPMANSICS	5	IP: Manufacturing (SIC)	1959:01-2021:05
14	IPB51222s	5	IP: Residential Utilities	1959:01-2021:05
15	IPFUELS	5	IP: Fuels	1959:01-2021:05
16	CUMFNS	2	Capacity Utilization: Manufacturing	1959:01-2021:05

Labor market

	Variable	Index	Description	Sample
17	HWI	2	Help-Wanted Index for United States	1959:01-2021:04
18	HWIURATIO	2	Ratio of Help Wanted/No. Unemployed	1959:01-2021:04
19	CLF16OV	5	Civilian Labor Force	1959:01-2021:05
20	CE16OV	5	Civilian Employment	1959:01-2021:05
21	UNRATE	2	Civilian Unemployment Rate	1959:01-2021:05
22	UEMPMEAN	2	Average Duration of Unemployment (Weeks)	1959:01-2021:05
23	UEMPLT5	5	Civilians Unemployed - Less Than 5 Weeks	1959:01-2021:05
24	UEMP5TO14	5	Civilians Unemployed for 5-14 Weeks	1959:01-2021:05
25	UEMP15OV	5	Civilians Unemployed - 15 Weeks & Over	1959:01-2021:05
26	UEMP15T26	5	Civilians Unemployed for 15-26 Weeks	1959:01-2021:05
27	UEMP27OV	5	Civilians Unemployed for 27 Weeks and Over	1959:01-2021:05
28	CLAIMSx	5	Initial Claims	1959:01-2021:05
29	PAYEMS	5	All Employees: Total nonfarm	1959:01-2021:05
30	USGOOD	5	All Employees: Goods-Producing Industries	1959:01-2021:05
31	CES1021000001	5	All Employees: Mining and Logging: Mining	1959:01-2021:05
32	USCONS	5	All Employees: Construction	1959:01-2021:05
33	MANEMP	5	All Employees: Manufacturing	1959:01-2021:05
34	DMANEMP	5	All Employees: Durable goods	1959:01-2021:05
35	NDMANEMP	5	All Employees: Nondurable goods	1959:01-2021:05
36	SRVPRD	5	All Employees: Service-Providing Industries	1959:01-2021:05
37	USTPU	5	All Employees: Trade, Transportation & Utilities	1959:01-2021:05
38	USWTRADE	5	All Employees: Wholesale Trade	1959:01-2021:05
39	USTRADE	5	All Employees: Retail Trade	1959:01-2021:05
40	USFIRE	5	All Employees: Financial Activities	1959:01-2021:05
41	USGOVT	5	All Employees: Government	1959:01-2021:05
42	CES0600000007	1	Avg Weekly Hours : Goods-Producing	1959:01-2021:05
43	AWOTMAN	2	Avg Weekly Overtime Hours : Manufacturing	1959:01-2021:05
44	AWHMAN	1	Avg Weekly Hours : Manufacturing	1959:01-2021:05

Consumption

	Variable	Index	Description	Sample
45	DPCERA3M086SBEA	5	Real personal consumption expenditures	1959:01-2021:05
46	PCEPI	6	Personal Cons. Expend.: Chain Index	1959:01-2021:05
47	DDURRG3M086SBEA	6	Personal Cons. Exp: Durable goods	1959:01-2021:05
48	DNDGRG3M086SBEA	6	Personal Cons. Exp: Nondurable goods	1959:01-2021:05
49	DSERRG3M086SBEA	6	Personal Cons. Exp: Services	1959:01-2021:05

Housing starts and sales

	Variable	Index	Description	Sample
50	HOUST	4	Housing Starts: Total New Privately Owned	1959:01-2021:05
51	HOUSTNE	4	Housing Starts, Northeast	1959:01-2021:05
52	HOUSTMW	4	Housing Starts, Midwest	1959:01-2021:05
53	HOUSTS	4	Housing Starts, South	1959:01-2021:05
54	HOUSTW	4	Housing Starts, West	1959:01-2021:05
55	PERMIT	4	New Private Housing Permits (SAAR)	1960:01-2021:05
56	PERMITNE	4	New Private Housing Permits, Northeast (SAAR)	1960:01-2021:05
57	PERMITMW	4	New Private Housing Permits, Midwest (SAAR)	1960:01-2021:05
58	PERMITS	4	New Private Housing Permits, South (SAAR)	1960:01-2021:05
59	PERMITW	4	New Private Housing Permits, West (SAAR)	1960:01-2021:05

Inventories and orders

	Variable	Index	Description	Sample
60	CMRMTSPLx	5	Real Manu. and Trade Industries Sales	1959:01-2021:04
61	RETAILx	5	Retail and Food Services Sales	1959:01-2021:05
62	ACOGNO	5	New Orders for Consumer Goods	1992:02-2021:04
63	AMDMNOx	5	New Orders for Durable Goods	1959:01-2021:05
64	ANDENOx	5	New Orders for Nondefense Capital Goods	1968:02-2021:05
65	AMDMUOx	5	Unfilled Orders for Durable Goods	1959:01-2021:05
66	BUSINVx	5	Total Business Inventories	1959:01-2021:04
67	ISRATIOx	2	Total Business: Inventories to Sales Ratio	1959:01-2021:04

Stock market

	Variable	Index	Description	Sample
68	S&P 500	5	S&P's Common Stock Price Index: Composite	1959:01-2021:05
69	S&P: indust	5	S&P's Common Stock Price Index: Industrials	1959:01-2021:05
70	S&P div yield	2	S&P's Composite Common Stock: Dividend Yield	1959:01-2021:03
71	S&P PE ratio	5	S&P's Composite Common Stock: Price-Earnings Ratio	1959:01-2021:04
72	VXOCLSx	1	VXO	1962:07-2021:05

Exchange rates

	Variable	Index	Description	Sample
73	TWEXAFEGSMTHx	5	Trade Weighted U.S. Dollar Index: Major Currencies	1973:01-2021:05
74	EXSZUSx	5	Switzerland / U.S. Foreign Exchange Rate	1959:01-2021:05
75	EXJPUSx	5	Japan / U.S. Foreign Exchange Rate	1959:01-2021:05
76	EXUSUKx	5	U.S. / U.K. Foreign Exchange Rate	1959:01-2021:05
77	EXCAUSx	5	Canada / U.S. Foreign Exchange Rate	1959:01-2021:05

Interest rates

	Variable	Index	Description	Sample
78	FEDFUNDS	2	Effective Federal Funds Rate	1959:01-2021:05
79	CP3Mx	2	3-Month AA Financial Commercial Paper Rate	1959:01-2020:03
79	CP3Mx	2	3-Month AA Financial Commercial Paper Rate	2020:05-2021:05
80	TB3MS	2	3-Month Treasury Bill	1959:01-2021:05
81	TB6MS	2	6-Month Treasury Bill	1959:01-2021:05
82	GS1	2	1-Year Treasury Rate	1959:01-2021:05
83	GS5	2	5-Year Treasury Rate	1959:01-2021:05
84	GS10	2	10-Year Treasury Rate	1959:01-2021:05
85	AAA	2	Moody's Seasoned Aaa Corporate Bond Yield	1959:01-2021:05
86	BAA	2	Moody's Seasoned Baa Corporate Bond Yield	1959:01-2021:05
87	COMPAPFFx	1	3-Month Commercial Paper Minus FEDFUNDS	1959:01-2020:03
87	COMPAPFFx	1	3-Month Commercial Paper Minus FEDFUNDS	2020:05-2021:05
88	TB3SMFFM	1	3-Month Treasury C Minus FEDFUNDS	1959:01-2021:05
89	TB6SMFFM	1	6-Month Treasury C Minus FEDFUNDS	1959:01-2021:05
90	T1YFFM	1	1-Year Treasury C Minus FEDFUNDS	1959:01-2021:05
91	T5YFFM	1	5-Year Treasury C Minus FEDFUNDS	1959:01-2021:05
92	T10YFFM	1	10-Year Treasury C Minus FEDFUNDS	1959:01-2021:05
93	AAAFFM	1	Moody's Aaa Corporate Bond Minus FEDFUNDS	1959:01-2021:05
94	BAAFFM	1	Moody's Baa Corporate Bond Minus FEDFUNDS	1959:01-2021:05

Money and credit

	Variable	Index	Description	Sample
95	M1SL	6	M1 Money Stock	1959:01-2021:05
96	M2SL	6	M2 Money Stock	1959:01-2021:05
97	M2REAL	5	Real M2 Money Stock	1959:01-2021:05
98	BOGMBASE	6	St. Louis Adjusted Monetary Base	1959:01-2021:05
99	TOTRESNS	6	Total Reserves of Depository Institutions	1959:01-2021:05
100	NONBORRES	7	Reserves Of Depository Institutions	1959:01-2021:05
101	BUSLOANS	6	Commercial and Industrial Loans	1959:01-2021:05
102	REALLN	6	Real Estate Loans at All Commercial Banks	1959:01-2021:05
103	NONREVSL	6	Total Nonrevolving Credit	1959:01-2021:04
104	CONSPI	2	Nonrevolving consumer credit to Personal Income	1959:01-2021:04
105	MZMSL	6	MZM Money Stock	1959:01-2021:01
106	DTCOLNVHFNM	6	Consumer Motor Vehicle Loans Outstanding	1959:01-2021:04
107	DTCTHFNM	6	Total Consumer Loans and Leases Outstanding	1959:01-2021:04
108	INVEST	6	Securities in Bank Credit at All Commercial Banks	1959:01-2021:05

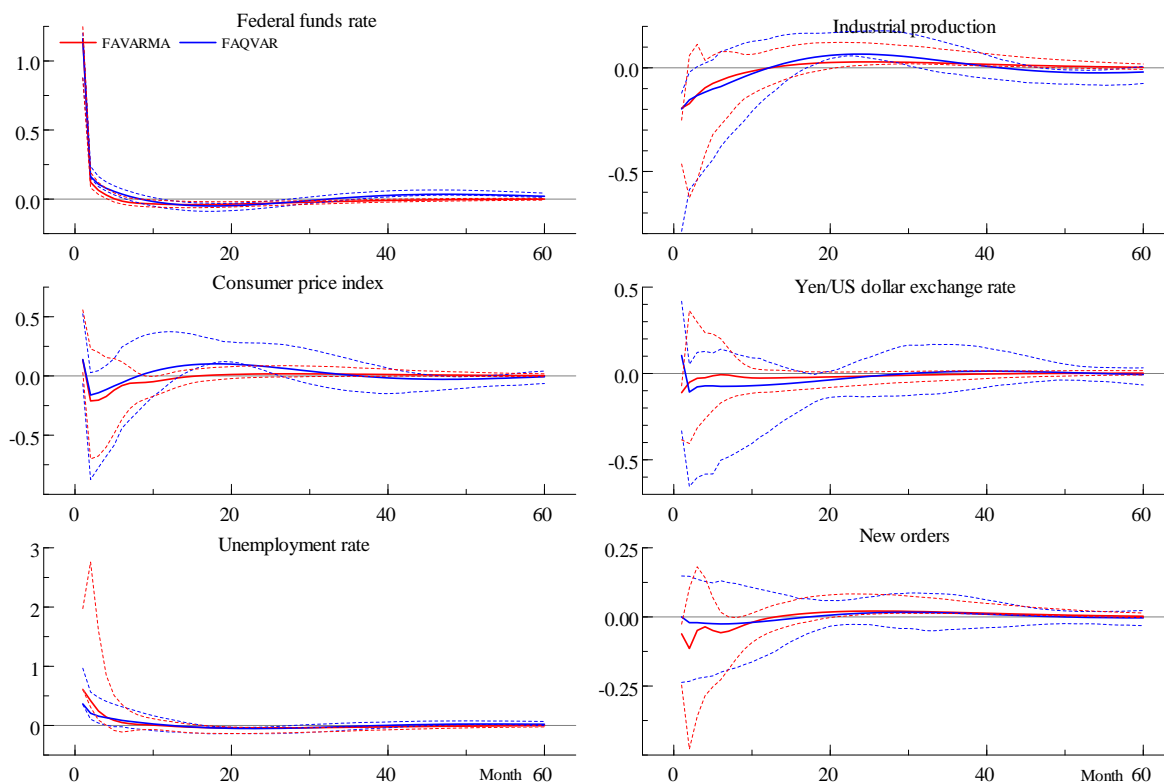
Prices

	Variable	Index	Description	Sample
109	WPSFD49207	6	PPI: Finished Goods	1959:01-2021:05
110	WPSFD49502	6	PPI: Finished Consumer Goods	1959:01-2021:05
111	WPSID61	6	PPI: Intermediate Materials	1959:01-2021:05
112	WPSID62	6	PPI: Crude Materials	1959:01-2021:05
113	OILPRICE _x	6	Crude Oil, spliced WTI and Cushing	1959:01-2021:05
114	PPICMM	6	PPI: Metals and metal products:	1959:01-2021:05
115	CPIAUCSL	6	CPI : All Items	1959:01-2021:05
116	CPIAPPSL	6	CPI : Apparel	1959:01-2021:05
117	CPITRNSL	6	CPI : Transportation	1959:01-2021:05
118	CPIMEDSL	6	CPI : Medical Care	1959:01-2021:05
119	CUSR0000SAC	6	CPI : Commodities	1959:01-2021:05
120	CUSR0000SAD	6	CPI : Durables	1959:01-2021:05
121	CUSR0000SAS	6	CPI : Services	1959:01-2021:05
122	CPIULFSL	6	CPI : All Items Less Food	1959:01-2021:05
123	CUSR0000SA0L2	6	CPI : All items less shelter	1959:01-2021:05
124	CUSR0000SA0L5	6	CPI : All items less medical care	1959:01-2021:05

Average hourly earnings and consumer sentiment index

	Variable	Index	Description	Sample
125	CES0600000008	6	Avg Hourly Earnings : Goods-Producing	1959:01-2021:05
126	CES2000000008	6	Avg Hourly Earnings : Construction	1959:01-2021:05
127	CES3000000008	6	Avg Hourly Earnings : Manufacturing	1959:01-2021:05
128	UMCSENT _x	2	Consumer Sentiment Index	1959:01-2021:05

Figure A1. Impulse responses and confidence intervals from a contractionary monetary policy shock:
FAVARMA and FAQVAR models



Notes: Impulse responses using eight factors for both models. 95 percent confidence intervals in dotted lines.