

Online Appendix to Asset Price Spillovers from Unconventional Monetary Policy: A Global Empirical Perspective

Domenico Lombardi,^a Pierre L. Siklos,^{a,b} and
Samantha St. Amand^a

^aCenter for International Governance Innovation

^bWilfrid Laurier University

Appendix A. Monetary Policy Communication Content

The dictionaries used in the algorithm to capture variation in content of central bank communications combine dictionaries constructed by DICTION 6.0 and Loughran and McDonald (2011), and are augmented with words frequently used by central bankers. Each dictionary has a unique set of words. Capitalizations and punctuations are disregarded in the processing of texts. The dictionaries include inflections rather than stemming to be more precise about expressions. For example, “stabilize” and “stabilizing” are included in the optimism dictionary, but not “stability,” as it is used more ambiguously in the context of central bank communication; using its stemmed form “stabil-” would not achieve this end. Words that are ambiguous in the context of central bank communications were removed from the dictionaries (for example, crisis, unemployment, risk, stability, dampen, depress, downward, surprise, protection, and so on).

A1. Certainty

The certainty dictionary combines two dictionaries: one that includes words that capture sentiments of disagreement and uncertainty, which is subtracted from another dictionary that includes words that express agreement and certainty in decisionmaking or expectations.

The agreement/certainty dictionary contains 725 words. It combines three DICTION “bags of words”: leveling term, centrality, and

rapport, which express words used to ignore individual differences, denote institutional regularities and/or substantive agreement on core values, and describe attitudinal similarities among groups of people (for example, continuous, reliable, steady, warrant, confirm, majority, normalities). The dictionary was augmented with words frequently used by central banks to express agreement or certainty in decisionmaking or expectations, such as accommodative, anticipate, expect, confident, judge, prepared, and so on.

The uncertainty/disagreement dictionary contains 377 words. It mostly relies on the Loughran and McDonald uncertainty dictionary which includes words like appear, believe, cautious, contingent, might, preliminary, roughly, somewhat, uncertain, and so on. The list was augmented with words such as argue, broadly, careful, disorderly, mixed, monitor, and so on.

A.2 Pessimism

The pessimism dictionary captures words that express unfavorable conditions or bad outcomes. It contains a total of 2,746 words and combines the blame and hardship dictionaries of DICTION with the Loughran and McDonald negative dictionary. Terms include threaten, vulnerable, weak, alarming, unstable, adverse, deteriorate, panic, disruption, distort, fail, hinder, impede, lack, jeopardize, overvalued, setback, stagnate, and so on. The dictionary was augmented with terms like downside, constrain, sharp, slack, soft, tight, and so on.

A.3 Optimism

Opposite to the pessimism dictionary, the optimism dictionary captures words that express favorable conditions or good outcomes. It contains a total of 825 words and combines the praise and satisfaction dictionaries of DICTION with the Loughran and McDonald positive dictionary. Terms include stimulate, satisfy, encourage, enhance, better, boost, desirable, effective, improve, outperform, strengthen, successful, and so on. The dictionary was augmented with terms like balanced, ease, expand, returning, stabilize, support, and well-anchored.

Appendix B. Summary Statistics: Dependent Variables

Table B1 shows the summary statistics for the dependent variables (see table 1 in text) for the United States, systemically important advanced economies (SIAEs), and small open economies (SOAEs) over three samples: full sample period, FOMC non-meeting days, and FOMC meeting days.

Table B1. Summary Statistics: Dependent Variables

		N	Mean	Standard Deviation	Kurtosis
<i>A. One-Year OIS</i>					
Full Sample	US	1,978	-0.38	6.27	11.87
FOMC Non-meeting Days		1,914	-0.33	6.15	12.07
FOMC Meeting Days		64	-1.82	8.99	7.41
Full Sample	SIOA	4,988	-0.26	15.07	109.97
FOMC Non-meeting Days		4,825	-0.23	14.92	112.00
FOMC Meeting Days		163	-1.17	18.99	72.97
Full Sample	SOAE	9,540	-0.11	3.15	27.10
FOMC Non-meeting Days		9,229	-0.09	3.14	27.66
FOMC Meeting Days		311	-0.50	3.28	13.13
<i>B. Sovereign Bond Spread</i>					
Full Sample	US	1,822	0.17	11.67	11.37
FOMC Non-meeting Days		1,759	-0.01	11.16	10.72
FOMC Meeting Days		63	4.97	21.15	5.93
Full Sample	SIOA	7,098	0.09	8.58	17.54
FOMC Non-meeting Days		6,859	0.12	8.52	17.60
FOMC Meeting Days		239	-0.93	10.03	14.99
Full Sample	SOAE	8,425	0.16	9.68	22.99
FOMC Non-meeting Days		8,149	0.12	9.54	23.51
FOMC Meeting Days		276	1.52	13.08	14.08
<i>C. Ten-Year Sovereign Bond Yield</i>					
Full Sample	US	1,824	-0.10	3.17	5.48
FOMC Non-meeting Days		1,761	-0.09	3.09	5.25
FOMC Meeting Days		63	-0.35	4.99	4.44
Full Sample	SIOA	7,704	-0.08	3.01	11.36
FOMC Non-meeting Days		7,449	-0.07	3.00	11.53
FOMC Meeting Days		255	-0.35	3.32	7.91
Full Sample	SOAE	9,597	-0.04	2.29	10.43
FOMC Non-meeting Days		9,283	-0.04	2.28	10.60
FOMC Meeting Days		314	-0.07	2.58	6.84

Appendix C. Daily and Intradaily Data Comparisons: An Illustration

Table C1 shows the log returns of U.S. sovereign bond futures at the two-, five-, and ten-year yield to maturity for FOMC policy announcement days between December 2016 and November 2017. (Datastream and Bloomberg only permit six months to one year of intradaily data downloading; additional historical data would have to be purchased.) The data are calculated for three windows: the full trading day, a wide window (one hour before and two hours after an FOMC press statement), and a narrow window (thirty minutes before and one hour after an FOMC press statement). The yellow highlights statistically significant differences between daily and intradaily yield changes. In June 2017 CPI and retail sales surprises were significant (on the strong side). Both of these announcements are controlled for in the study. In February 2017 the Fed did not raise rates, as originally expected, but did so in March. Our content variables are, for example, designed to pick up these subtleties while the impact of the delay in the federal funds rate increase may well have affected other announcements. All of the important ones are controlled for in our study.

**Table C1. Daily and Intradaily Data Comparisons:
An Illustration**

FOMC Announcement Date	Trading Day	Wide Window	Narrow Window
<i>A. Two-Year Yield</i>			
December 14, 2016	-0.14	-0.17	—
February 1, 2017	—	0.06	0.08
March 15, 2017	0.11	0.14	—
May 2, 2017	0.04	-0.01	0.00
June 14, 2017	0.04	—	-0.05
July 26, 2017	0.09	0.07	0.07
September 20, 2017	-0.06	—	—
November 1, 2017	-0.04	-0.01	-0.04
<i>B. Five-Year Yield</i>			
December 14, 2016	-0.36	-0.66	-0.45
February 1, 2017	-0.07	0.16	0.18
March 15, 2017	0.43	0.39	0.37
May 2, 2017	0.15	0.04	0.03
June 14, 2017	0.20	-0.20	-0.12
July 26, 2017	0.28	0.21	0.21
September 20, 2017	-0.19	—	-0.28
November 1, 2017	-0.05	-0.03	-0.09
<i>C. Ten-Year Yield</i>			
December 14, 2016	-0.41	-0.98	-0.66
February 1, 2017	-0.11	0.18	0.20
March 15, 2017	0.67	0.60	0.60
May 2, 2017	0.19	0.10	0.04
June 14, 2017	0.39	-0.21	-0.21
July 26, 2017	0.35	0.30	0.29
September 20, 2017	0.05	—	—
November 1, 2017	-0.03	-0.06	-0.14

Appendix D. Full Regression Results from Specification (2)

In table D1, estimates for model (2) with standard errors are shown in parentheses. U.S. estimation uses robust least squares; estimation for systemically important advanced economies (SIAEs) and small open advanced economies (SOAEs) use fixed effects with clustered standard errors. U.S. surprise macroeconomic news variables include gross domestic product growth (GDP), existing home sales (EHS), unemployment rate (UNM), non-farm payroll (NFP), retail sales (RTS), housing starts (HGS), consumer credit (CCR), manufacturing index (MFI), jobless claims (JBC), and durable goods orders (DGO). *, **, and *** indicate statistical significance at the 10 percent, 5 percent, and 1 percent level, respectively.

**Table D1. Full Regression Results from Specification (2):
United States**

	Three-Month LIBOR-OIS Spread	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	-0.02 (0.07)	-0.01 (0.05)	-0.49*** (0.10)	-0.12*** (0.03)
FOMC UMP Announcement	-0.06 (0.09)	-0.03 (0.06)	0.13 (0.12)	-0.01 (0.04)
FOMC Minutes Release	0.06 (0.10)	0.04 (0.06)	-0.29** (0.14)	-0.12*** (0.04)
U.S. GDP	-0.14 (0.70)	0.46 (0.52)	1.69* (0.95)	0.63** (0.30)
U.S. EHS	-1.04 (0.68)	0.22 (0.51)	1.05 (0.93)	0.43 (0.30)
U.S. UNM	-1.09 (0.69)	0.39 (0.50)	0.80 (0.96)	0.33 (0.31)
U.S. NFP	0.65 (0.66)	0.60 (0.47)	1.42 (0.90)	0.76*** (0.29)
U.S. RTS	0.03 (0.68)	0.98** (0.49)	2.99*** (0.91)	1.13*** (0.29)
U.S. HGS	-0.47 (0.66)	0.01 (0.49)	0.30 (0.95)	0.42 (0.30)
U.S. CCR	-0.11 (0.70)	0.64 (0.50)	0.33 (1.03)	0.29 (0.33)
U.S. MFI	0.66 (0.89)	0.51 (0.56)	-1.83 (1.16)	0.72* (0.37)
U.S. JBC	0.68** (0.30)	-0.56*** (0.22)	-1.13*** (0.41)	-0.25* (1.13)
U.S. DGO	-0.96 (0.70)	-0.06 (0.49)	0.26 (0.95)	-0.30 (0.30)
FOMC PR: Certainty	0.67 (0.62)	-0.20 (0.47)	-2.36*** (0.89)	-0.20 (0.28)
FOMC PR: Optimism	0.48 (1.45)	0.44 (1.09)	-0.71 (2.02)	-0.14 (0.64)
FOMC PR: Pessimism	0.14 (0.91)	0.68 (0.68)	2.51* (1.29)	-0.12 (0.41)
FOMC Minutes: Certainty	1.99 (1.73)	-0.47 (0.91)	1.21 (2.21)	0.46 (0.71)
FOMC Minutes: Optimism	-2.03 (2.91)	0.90 (1.77)	6.40 (4.24)	1.05 (1.36)
FOMC Minutes: Pessimism	0.28 (2.72)	0.53 (1.67)	1.57 (3.64)	1.15 (1.16)
U.S. Fed Purdah	-0.50 (0.35)	0.20 (0.25)	0.58 (0.48)	0.10 (0.15)
Lag Dependent Variable	0.37*** (0.02)	0.41*** (0.02)	0.43*** (0.02)	0.41*** (0.02)
Constant	-0.07 (0.17)	-0.25** (0.12)	0.36 (0.24)	-0.06 (0.08)
N	1,389	1,572	1,335	1,338
R ² -Adjusted	0.29	0.29	0.36	0.29

Table D2. Full Regression Results from Specification (2): SIAEs and SOAEs

	SIAEs				SOAEs			
	Three-Month LIBOR-OIS Spread	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield	Three-Month LIBOR-OIS Spread	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	-0.07 (0.06)	-0.15 (0.08)	-0.13 (0.13)	-0.06*** (0.01)	-0.16** (0.03)	-0.01 (0.01)	-0.19 (0.10)	-0.06*** (0.01)
FOMC UMP Announcement	0.19 (0.11)	-0.07 (0.06)	-0.09 (0.09)	-0.04*** (0.01)	0.11 (0.07)	-0.02 (0.03)	-0.03 (0.06)	-0.04* (0.02)
FOMC Minutes Release	-0.12 (0.06)	-0.22 (0.11)	-0.12 (0.17)	-0.06* (0.02)	0.06 (0.06)	-0.06 (0.03)	-0.26*** (0.03)	-0.06*** (0.01)
U.S. GDP	2.83 (3.59)	1.02 (0.36)	0.15 (0.53)	0.17 (0.07)	0.17* (0.30)	-0.01 (0.16)	0.55 (0.79)	0.24 (0.12)
U.S. EHS	0.47 (1.04)	0.92 (0.40)	0.57 (0.62)	0.45*** (0.07)	-1.06 (0.53)	0.17 (0.11)	0.25 (0.71)	0.28* (0.12)
U.S. UNM	-0.14 (0.21)	-0.78 (0.56)	-0.74 (0.78)	0.09 (0.08)	1.12 (1.18)	0.23 (0.16)	-0.19 (0.28)	0.15** (0.04)
U.S. NFP	1.52 (1.13)	1.29 (0.95)	0.92 (0.55)	0.24 (0.13)	-1.05 (0.91)	0.31 (0.18)	1.10* (0.48)	0.27* (0.11)
U.S. RTS	0.75 (1.06)	0.47 (0.18)	0.69 (0.30)	0.43** (0.10)	0.82 (1.32)	0.55** (0.18)	1.72*** (0.17)	0.57*** (0.08)
U.S. HGS	-0.99 (0.54)	0.10 (0.51)	-0.56* (0.23)	0.01 (0.07)	0.11 (0.38)	0.23 (0.13)	0.76 (0.63)	0.21 (0.11)
U.S. CCR	0.90 (0.58)	-0.68** (0.15)	-1.18 (0.88)	-0.02 (0.11)	-0.49 (0.83)	-0.11 (0.08)	0.14 (0.81)	0.07 (0.09)
U.S. MFI	2.93 (1.69)	-0.19 (0.84)	0.40 (0.74)	-0.01 (0.33)	-2.01 (1.05)	0.15 (0.17)	0.64 (0.39)	0.15 (0.08)
U.S. JBC	0.90 (0.57)	-0.11 (0.15)	-0.74 (0.33)	-0.22** (0.06)	0.31** (0.08)	-0.17 (0.14)	-0.48** (0.14)	-0.17*** (0.03)
U.S. DGO	1.31 (1.26)	0.10 (0.92)	-0.55 (0.49)	-0.16 (0.17)	-1.31* (0.55)	-0.22* (0.08)	-0.61 (0.61)	-0.05 (0.08)
FOMC PR: Certainty	0.12 (1.56)	0.56 (1.01)	0.29 (0.50)	0.29 (0.04)	0.73 (0.78)	-0.42 (0.37)	-0.11 (0.73)	0.03 (0.08)
FOMC PR: Optimism	1.90 (2.43)	-0.49 (1.34)	-1.75 (1.00)	-0.49** (0.14)	4.50* (1.66)	-0.91* (0.37)	-0.29 (0.53)	-0.33** (0.10)
FOMC PR: Pessimism	2.67 (2.78)	0.80* (0.22)	-0.41 (0.25)	-0.29* (0.09)	2.83 (1.88)	0.33 (0.27)	0.44 (1.05)	0.06 (0.06)

(continued)

Table D2. (Continued)

	SIAEs				SOAEs			
	Three-Month LIBOR-OIS Spread	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield	Three-Month LIBOR-OIS Spread	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Minutes:	3.75	-1.58	-1.06	-0.57	0.57	-0.23	-1.52	-0.16
Certainty	(7.27)	(1.02)	(1.32)	(0.43)	(1.13)	(0.12)	(1.39)	(0.18)
FOMC Minutes:	-2.72	-4.96	-3.87	-1.27*	1.91	-0.06	-2.67	-0.24
Optimism	(8.83)	(3.30)	(3.66)	(0.49)	(2.63)	(0.51)	(1.83)	(0.29)
FOMC Minutes:	5.60	-2.21	1.32	-0.25	0.80	-1.16**	0.20	-0.05
Pessimism	(10.18)	(1.60)	(2.03)	(0.46)	(1.82)	(0.26)	(0.61)	(0.25)
U.S. Fed Purdah	0.22	-1.00*	0.02	0.02	-0.62	-0.03	0.98**	0.19***
Certainty	(0.51)	(0.28)	(0.35)	(0.06)	(0.43)	(0.06)	(0.27)	(0.03)
Pessimism	-3.01***	1.03	0.20	0.04	-1.00	-0.08	0.79	0.06
Domestic Monetary Policy Press Release	(0.34)	(0.88)	(0.33)	(0.04)	(1.03)	(0.24)	(0.48)	(0.13)
Domestic PR:	0.70	0.49	-0.37	0.02	-0.23	-0.12	0.23	-0.03
Certainty	(0.61)	(0.88)	(0.53)	(0.06)	(0.93)	(0.14)	(0.30)	(0.03)
Pessimism	-3.12*	2.92	-0.34	0.01	-2.86	-0.21***	-0.55	-0.17
Domestic PR:	(1.09)	(1.16)	(1.59)	(0.13)	(2.11)	(0.03)	(0.46)	(0.18)
Certainty	3.38	-1.59	-0.61	-0.06	2.77*	0.34	-0.77	-0.04
Pessimism	(1.50)	(0.93)	(2.24)	(0.22)	(1.03)	(0.28)	(0.48)	(0.09)
Lag Dependent Variable	0.23**	0.32***	0.34*	0.50***	0.31***	0.53***	0.48***	0.55***
Constant	(0.04)	(0.04)	(0.11)	(0.02)	(0.02)	(0.01)	(0.04)	(0.03)
Lag 1	0.10	-0.10	0.01	-0.06**	0.29	-0.04***	0.01	-0.05***
Lag 2	(0.14)	(0.05)	(0.09)	(0.02)	(0.14)	(0.01)	(0.07)	(0.01)
N	4,906	3,942	5,460	6,036	5,122	7,515	6,522	7,479
R ² -Adjusted	0.05	0.13	0.12	0.26	0.10	0.31	0.25	0.32

Appendix E. Regression Results from Specification (2) for Individual Countries

In tables E1–E9, estimates for model (2) using robust least squares with standard errors are shown in parentheses. U.S. surprise macroeconomic news variables include gross domestic product growth (GDP), existing home sales (EHS), unemployment rate (UNM), non-farm payroll (NFP), retail sales (RTS), housing starts (HGS), consumer credit (CCR), manufacturing index (MFI), jobless claims (JBC), and durable goods orders (DGO). U.K. macroeconomic surprises include consumer price index (CPI), gross domestic product growth (GDP), producer price index (PPI), and retail sales (RTS). Euro-area macroeconomic surprises include gross domestic product growth (GDP), harmonized index of consumer prices (HICP), industrial production (IPR), Economic Sentiment Index (ESI) and unemployment rate (UNP). *, **, and *** indicate statistical significance at the 10 percent, 5 percent, and 1 percent level, respectively.

**Table E1. Regression Results from Specification (2):
Euro Zone**

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	-0.02 (0.05)	-0.18** (0.07)	-0.04** (0.02)
FOMC UMP Announcement	0.02 (0.05)	-0.08 (0.08)	-0.04 (0.02)
FOMC Minutes Release	-0.06 (0.05)	-0.22** (0.09)	-0.06** (0.02)
U.S. GDP	0.52 (0.46)	0.81 (0.70)	0.30 (0.19)
U.S. EHS	-0.10 (0.45)	1.44** (0.66)	0.50*** (0.19)
U.S. UNM	-0.24 (0.45)	0.21 (0.68)	0.28 (0.19)
U.S. NFP	0.24 (0.42)	-0.42 (0.65)	-0.04 (0.18)
U.S. RTS	0.62 (0.43)	0.52 (0.69)	0.28 (0.18)
U.S. HGS	0.21 (0.43)	-0.10 (0.71)	0.13 (0.18)
U.S. CCR	0.77* (0.44)	0.38 (0.68)	0.14 (0.19)
U.S. MFI	1.13** (0.51)	0.28 (0.83)	0.14 (0.23)
U.S. JBC	0.13 (0.19)	-0.32 (0.30)	-0.08 (0.08)
U.S. DGO	-0.67 (0.44)	0.00 (0.70)	-0.20 (0.19)
FOMC PR: Certainty	-0.12 (0.41)	1.03 (0.69)	0.12 (0.17)
FOMC PR: Optimism	-0.94 (0.97)	-0.16 (1.53)	-0.31 (0.40)
FOMC PR: Pessimism	0.66 (0.60)	-0.31 (0.89)	0.00 (0.25)
FOMC Minutes: Certainty	-1.07 (0.83)	0.74 (1.43)	-0.07 (0.35)
FOMC Minutes: Optimism	-3.28** (1.57)	2.54 (2.63)	-0.09 (0.72)
FOMC Minutes: Pessimism	-0.95 (1.49)	3.47 (2.48)	0.30 (0.66)

(continued)

Table E1. (Continued)

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
U.S. Fed Purdah	-0.49** (0.23)	0.46 (0.35)	0.00 (0.10)
DOM Press Release	-0.17 (0.43)	-0.35 (0.65)	0.01 (0.18)
DOM UMP Announcements	5.07*** (1.60)	2.32 (2.16)	0.85 (0.61)
DOM PR: Certainty	-1.79*** (0.43)	0.18 (0.64)	-0.09 (0.18)
DOM PR: Optimism	2.64*** (0.61)	0.13 (0.93)	0.43* (0.25)
DOM PR: Pessimism	-2.33** (0.96)	-0.69 (1.44)	-0.92** (0.40)
DOM GDP	5.12 (3.71)	-0.29 (5.46)	0.35 (1.53)
DOM HICP	3.34 (2.61)	-1.54 (4.36)	0.39 (1.10)
DOM IPR	-0.37 (0.61)	-1.57* (0.90)	-0.37 (0.25)
DOM ESI	0.23 (0.28)	0.97** (0.43)	0.32*** (0.12)
DOM UNM	-4.88 (4.27)	-3.68 (6.55)	-1.52 (1.81)
DOM Purdah	-0.17 (0.23)	-0.61* (0.36)	-0.12 (0.10)
Lag Dependent Variable	0.50*** (0.01)	0.54*** (0.02)	0.54*** (0.02)
Constant	-0.10 (0.13)	-0.12 (0.20)	-0.03 (0.05)
N	1,564	1,372	1,488
R ² -Adjusted	0.69	0.34	0.38

**Table E2. Regression Results from Specification (2):
Japan**

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Release	—	0.03 (0.04)	-0.04 (0.03)
FOMC UMP Announcement	—	-0.08 (0.05)	-0.04 (0.03)
FOMC Minutes Release	—	-0.03 (0.05)	-0.05 (0.03)
U.S. GDP	—	-0.29 (0.44)	0.00 (0.28)
U.S. EHS	—	0.86** (0.43)	0.48* (0.28)
U.S. UNM	—	0.22 (0.43)	0.20 (0.27)
U.S. NFP	—	0.78** (0.37)	0.65** (0.25)
U.S. RTS	—	0.61 (0.37)	0.38 (0.26)
U.S. HGS	—	-0.25 (0.39)	0.24 (0.27)
U.S. CCR	—	0.13 (0.44)	0.05 (0.28)
U.S. MFI	—	0.46 (0.44)	0.10 (0.30)
U.S. JBC	—	-0.36** (0.18)	-0.37*** (0.12)
U.S. DGO	—	0.10 (0.38)	-0.01 (0.26)
FOMC PR: Certainty	—	-0.05 (0.39)	0.05 (0.25)
FOMC PR: Optimism	—	-1.03 (0.85)	-0.86 (0.59)
FOMC PR: Pessimism	—	-1.15** (0.51)	-0.54 (0.36)
FOMC Minutes: Certainty	—	-0.48 (0.73)	-0.12 (0.49)
FOMC Minutes: Optimism	—	-0.83 (1.53)	-1.34 (0.96)
FOMC Minutes: Pessimism	—	0.17 (1.34)	0.74 (0.90)

(continued)

Table E2. (Continued)

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
U.S. Fed Purdah	—	-0.41* (0.22)	-0.16 (0.14)
DOM Press Release	—	0.31 (0.47)	0.41 (0.30)
DOM Minutes Release	—	-0.31 (0.39)	-0.10 (0.26)
DOM UMP Announcements	—	1.20 (1.21)	-0.09 (0.66)
DOM PR: Certainty	—	-0.15 (0.19)	-0.01 (0.11)
DOM PR: Optimism	—	1.16** (0.49)	0.38 (0.29)
DOM PR: Pessimism	—	-0.76* (0.45)	0.02 (0.27)
DOM Minutes: Certainty	—	0.46 (0.63)	-0.06 (0.39)
DOM Minutes: Optimism	—	2.21 (1.88)	0.43 (1.18)
DOM Minutes: Pessimism	—	-0.70 (1.33)	-0.75 (0.79)
DOM Purdah	—	-0.41 (0.30)	-0.34* (0.19)
Lag Dependent Variable	—	0.50*** (0.02)	0.50*** (0.02)
Constant	—	0.07 (0.11)	-0.07 (0.07)
N	—	1,192	1,551
R ² -Adjusted	—	0.27	0.30

**Table E3. Regression Results from Specification (2):
United Kingdom**

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	-0.02 (0.05)	-0.10 (0.09)	-0.05* (0.03)
FOMC UMP Announcement	-0.09 (0.06)	-0.24** (0.11)	-0.16*** (0.03)
FOMC Minutes Release	-0.06 (0.06)	-0.31** (0.12)	-0.14*** (0.04)
U.S. GDP	1.53*** (0.50)	0.89 (0.85)	0.24 (0.25)
U.S. EHS	0.41 (0.51)	1.27 (0.83)	0.32 (0.25)
U.S. UNM	-0.16 (0.49)	-0.06 (0.85)	-0.13 (0.25)
U.S. NFP	0.62 (0.47)	0.55 (0.82)	0.21 (0.24)
U.S. RTS	-0.54 (0.49)	1.85** (0.86)	0.59** (0.25)
U.S. HGS	-0.32 (0.56)	-1.11 (0.88)	-0.10 (0.24)
U.S. CCR	0.60 (0.49)	1.78** (0.87)	0.22 (0.26)
U.S. MFI	0.72 (0.56)	0.48 (1.10)	0.14 (0.32)
U.S. JBC	-0.19 (0.21)	-0.43 (0.36)	-0.13 (0.11)
U.S. DGO	-0.16 (0.53)	-1.23 (0.86)	-0.53** (0.26)
FOMC PR: Certainty	-0.47 (0.49)	1.23 (0.80)	0.06 (0.23)
FOMC PR: Optimism	-2.31* (1.20)	-1.11 (1.84)	-0.57 (0.53)
FOMC PR: Pessimism	0.26 (0.78)	-0.72 (1.10)	-0.26 (0.33)
FOMC Minutes: Certainty	-3.20*** (1.21)	-0.42 (2.12)	-0.06 (0.61)
FOMC Minutes: Optimism	-2.58 (1.97)	-2.71 (3.54)	-1.14 (1.05)
FOMC Minutes: Pessimism	-1.97 (1.77)	-2.41 (3.37)	-0.28 (1.00)

(continued)

Table E3. (Continued)

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
U.S. Fed Purdah	-0.07 (0.27)	0.03 (0.44)	-0.02 (0.13)
DOM Press Release	-0.20 (0.53)	0.22 (0.87)	0.11 (0.25)
DOM Minutes Release	0.27 (0.48)	-0.15 (0.80)	-0.13 (0.23)
DOM UMP Announcements	0.75 (1.51)	-0.29 (2.55)	0.59 (0.76)
DOM PR: Certainty	-0.22 (0.38)	-0.37 (0.61)	-0.24 (0.17)
DOM PR: Optimism	0.62 (1.13)	-5.51*** (1.65)	-0.73 (0.48)
DOM PR: Pessimism	-1.41* (0.85)	2.43* (1.28)	-0.50 (0.37)
DOM Minutes: Certainty	1.22* (0.65)	0.35 (1.05)	-0.16 (0.27)
DOM Minutes: Optimism	1.63 (1.47)	-1.10 (2.43)	-0.98 (0.72)
DOM Minutes: Pessimism	-2.69* (1.41)	-2.53 (2.35)	-0.96 (0.68)
DOM CPI	3.84 (2.59)	0.15 (4.29)	0.20 (1.26)
DOM GDP	3.54 (2.27)	-2.16 (3.88)	-0.27 (1.17)
DOM PPI	1.84* (1.05)	1.21 (1.81)	0.48 (0.55)
DOM RTS	0.30 (0.51)	0.40 (0.88)	0.22 (0.26)
DOM Purdah	-0.02 (0.25)	0.05 (0.43)	0.06 (0.13)
Lag Dependent Variable	0.26*** (0.02)	0.50*** (0.02)	0.50*** (0.02)
Constant	-0.14 (0.16)	-0.20 (0.27)	-0.14* (0.08)
N	1,285	1,316	1,417
R ² -Adjusted	0.17	0.30	0.34

**Table E4. Regression Results from Specification (2):
Australia**

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	-0.02 (0.02)	-0.80*** (0.14)	-0.09*** (0.02)
FOMC UMP Announcement	0.01 (0.02)	-0.25 (0.16)	-0.04 (0.02)
FOMC Minutes Release	-0.03 (0.02)	-0.42** (0.17)	-0.08*** (0.03)
U.S. GDP	-0.09 (0.15)	0.31 (1.56)	-0.02 (0.22)
U.S. EHS	0.26* (0.15)	0.75 (0.89)	0.48** (0.20)
U.S. UNM	0.12 (0.15)	-0.61 (1.01)	0.17 (0.20)
U.S. NFP	0.18 (0.14)	3.64*** (1.26)	0.80*** (0.19)
U.S. RTS	0.31** (0.14)	4.10* (2.26)	0.52** (0.21)
U.S. HGS	-0.08 (0.15)	2.53** (1.20)	0.35* (0.19)
U.S. CCR	-0.12 (0.15)	-0.67 (1.25)	0.09 (0.20)
U.S. MFI	0.15 (0.17)	2.82** (1.20)	0.39* (0.23)
U.S. JBC	0.01 (0.06)	-0.41 (0.49)	-0.19** (0.09)
U.S. DGO	-0.10 (0.15)	0.45 (1.18)	0.13 (0.21)
FOMC PR: Certainty	-0.07 (0.14)	2.66** (1.20)	-0.03 (0.19)
FOMC PR: Optimism	0.18 (0.32)	1.13 (3.02)	-0.41 (0.44)
FOMC PR: Pessimism	-0.03 (0.20)	-2.75 (3.49)	0.01 (0.27)
FOMC Minutes: Certainty	0.02 (0.27)	-3.30 (2.35)	-0.54 (0.38)
FOMC Minutes: Optimism	-0.33 (0.53)	-5.65 (4.68)	-0.01 (0.77)
FOMC Minutes: Pessimism	0.34 (0.50)	-4.24 (4.62)	-0.72 (0.70)

(continued)

Table E4. (Continued)

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
U.S. Fed Purdah	0.11 (0.08)	0.21 (0.56)	0.14 (0.10)
DOM Press Release	-0.22 (0.14)	1.08 (1.02)	-0.05 (0.19)
DOM PR: Certainty	-0.10 (0.09)	0.89 (0.68)	0.05 (0.11)
DOM PR: Optimism	0.05 (0.18)	-0.55 (1.79)	-0.50** (0.23)
DOM PR: Pessimism	0.09 (0.20)	-4.66*** (1.71)	0.00 (0.26)
Lag Dependent Variable	0.47*** (0.01)	0.56*** (0.03)	0.47*** (0.02)
Constant	-0.05 (0.04)	0.16 (0.26)	-0.01 (0.05)
N	1,569	656	1,424
R ² -Adjusted	0.42	0.41	0.28

**Table E5. Regression Results from Specification (2):
Canada**

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	0.00 (0.04)	-0.25*** (0.08)	-0.05** (0.02)
FOMC UMP Announcement	-0.04 (0.04)	0.03 (0.10)	-0.05* (0.03)
FOMC Minutes Release	-0.16*** (0.05)	-0.19 (0.12)	-0.05 (0.03)
U.S. GDP	0.20 (0.37)	1.64** (0.80)	0.34 (0.23)
U.S. EHS	0.49 (0.35)	1.25 (0.82)	0.32 (0.22)
U.S. UNM	0.39 (0.35)	0.08 (0.84)	0.16 (0.24)
U.S. NFP	0.46 (0.34)	1.62** (0.77)	0.37* (0.22)
U.S. RTS	0.84** (0.36)	1.66** (0.78)	0.55** (0.23)
U.S. HGS	0.28 (0.38)	0.87 (0.80)	0.12 (0.22)
U.S. CCR	0.86** (0.35)	1.49 (0.92)	0.33 (0.26)
U.S. MFI	0.20 (0.41)	-0.35 (0.98)	0.31 (0.28)
U.S. JBC	-0.28* (0.15)	-0.36 (0.33)	-0.15 (0.10)
U.S. DGO	-0.11 (0.36)	-1.01 (0.78)	-0.28 (0.22)
FOMC PR: Certainty	-1.28*** (0.35)	-1.37* (0.77)	-0.18 (0.22)
FOMC PR: Optimism	0.22 (0.87)	-1.40 (1.77)	-0.09 (0.52)
FOMC PR: Pessimism	1.92*** (0.60)	-0.37 (1.06)	-0.19 (0.31)
FOMC Minutes: Certainty	-0.12 (0.77)	0.48 (1.64)	0.73 (0.47)
FOMC Minutes: Optimism	0.55 (1.26)	5.34 (3.84)	1.28 (1.02)
FOMC Minutes: Pessimism	-0.51 (1.21)	3.57 (3.34)	1.28 (0.95)

(continued)

Table E5. (Continued)

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
U.S. Fed Purdah	0.01 (0.19)	-0.06 (0.43)	0.18 (0.12)
DOM Press Release	0.35 (0.45)	1.77* (1.07)	0.55* (0.29)
DOM PR: Certainty	0.03 (0.28)	0.75 (0.68)	0.09 (0.18)
DOM PR: Optimism	-0.14 (0.51)	0.84 (1.08)	0.14 (0.29)
DOM PR: Pessimism	-0.08 (0.65)	-0.28 (1.59)	0.06 (0.39)
DOM Purdah	-0.24 (0.23)	-0.29 (0.54)	-0.05 (0.15)
Lag Dependent Variable	0.54*** (0.02)	0.42*** (0.02)	0.45*** (0.02)
Constant	-0.01 (0.10)	0.38 (0.23)	-0.13** (0.06)
N	1,386	1,166	1,355
R ² -Adjusted	0.50	0.26	0.29

**Table E6. Regression Results from Specification (2):
New Zealand**

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	-0.01 (0.01)	-0.26*** (0.07)	-0.04*** (0.01)
FOMC UMP Announcement	0.00 (0.01)	0.05 (0.09)	-0.02 (0.01)
FOMC Minutes Release	-0.01 (0.01)	-0.14 (0.09)	-0.05*** (0.01)
U.S. GDP	0.00 (0.10)	2.22*** (0.77)	0.27** (0.13)
U.S. EHS	0.02 (0.10)	0.42 (0.72)	0.10 (0.12)
U.S. UNM	0.07 (0.10)	0.25 (0.71)	0.17 (0.12)
U.S. NFP	0.05 (0.10)	1.85*** (0.66)	0.15 (0.11)
U.S. RTS	0.17* (0.10)	2.05*** (0.68)	0.32*** (0.12)
U.S. HGS	0.08 (0.10)	0.22 (0.69)	0.28** (0.12)
U.S. CCR	-0.21** (0.10)	-0.55 (0.70)	-0.02 (0.12)
U.S. MFI	0.07 (0.11)	1.56** (0.79)	0.17 (0.13)
U.S. JBC	-0.04 (0.04)	-0.60** (0.30)	-0.09* (0.05)
U.S. DGO	0.08 (0.10)	0.67 (0.70)	0.12 (0.12)
FOMC PR: Certainty	0.15 (0.09)	-0.19 (0.66)	0.03 (0.11)
FOMC PR: Optimism	-0.15 (0.22)	0.03 (1.54)	-0.47* (0.26)
FOMC PR: Pessimism	-0.02 (0.14)	1.89** (0.96)	0.01 (0.16)
FOMC Minutes: Certainty	0.09 (0.18)	-1.08 (1.28)	-0.10 (0.22)
FOMC Minutes: Optimism	-0.57 (0.36)	-3.81 (2.49)	-0.33 (0.42)
FOMC Minutes: Pessimism	0.25 (0.34)	3.66 (2.35)	0.38 (0.40)

(continued)

Table E6. (Continued)

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
U.S. Fed Purdah	0.04 (0.05)	0.87** (0.36)	0.06 (0.06)
DOM Press Release	-0.11 (0.11)	-0.41 (0.79)	-0.05 (0.13)
DOM PR: Certainty	0.01 (0.05)	-0.15 (0.36)	-0.05 (0.06)
DOM PR: Optimism	-0.26** (0.12)	-0.98 (0.82)	-0.04 (0.14)
DOM PR: Pessimism	0.19** (0.08)	-0.51 (0.55)	-0.08 (0.09)
Lag Dependent Variable	0.43*** (0.01)	0.56*** (0.02)	0.63*** (0.02)
Constant	0.00 (0.02)	-0.10 (0.17)	-0.03 (0.03)
N	1,566	1,556	1,556
R ² -Adjusted	0.44	0.49	0.48

**Table E7. Regression Results from Specification (2):
Norway**

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	-0.04** (0.01)	0.02 (0.08)	-0.02 (0.02)
FOMC UMP Announcement	-0.04** (0.02)	-0.11 (0.10)	-0.05** (0.02)
FOMC Minutes Release	-0.03* (0.02)	-0.25*** (0.10)	-0.05*** (0.02)
U.S. GDP	-0.33** (0.14)	-0.59 (0.83)	0.06 (0.17)
U.S. EHS	0.20 (0.14)	0.50 (0.82)	-0.20 (0.16)
U.S. UNM	-0.03 (0.14)	-0.06 (0.80)	0.01 (0.16)
U.S. NFP	0.28** (0.13)	1.12 (0.75)	0.02 (0.15)
U.S. RTS	0.39*** (0.13)	1.62** (0.78)	0.34** (0.15)
U.S. HGS	0.18 (0.14)	0.15 (0.79)	0.46*** (0.16)
U.S. CCR	0.00 (0.14)	1.24 (0.80)	0.20 (0.16)
U.S. MFI	-0.11 (0.15)	0.53 (0.89)	-0.02 (0.18)
U.S. JBC	-0.03 (0.06)	-0.40 (0.34)	-0.05 (0.07)
U.S. DGO	0.01 (0.14)	-1.05 (0.79)	-0.13 (0.16)
FOMC PR: Certainty	-0.13 (0.13)	1.04 (0.75)	0.13 (0.15)
FOMC PR: Optimism	-0.64** (0.30)	1.56 (1.76)	-0.38 (0.35)
FOMC PR: Pessimism	0.19 (0.19)	-1.69 (1.09)	0.25 (0.22)
FOMC Minutes: Certainty	0.04 (0.25)	1.03 (1.46)	-0.14 (0.29)
FOMC Minutes: Optimism	0.29 (0.49)	-2.66 (2.83)	-0.56 (0.56)
FOMC Minutes: Pessimism	0.18 (0.46)	2.98 (2.67)	-0.40 (0.53)

(continued)

Table E7. (Continued)

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
U.S. Fed Purdah	0.01 (0.07)	0.51 (0.41)	0.12 (0.08)
DOM Press Release	-0.06 (0.15)	0.57 (0.90)	-0.01 (0.18)
DOM PR: Certainty	-0.23 (0.16)	-0.41 (0.93)	-0.16 (0.18)
DOM PR: Optimism	-1.12* (0.65)	5.93 (3.78)	0.57 (0.75)
DOM PR: Pessimism	-0.05 (0.26)	-1.15 (1.49)	-0.41 (0.30)
Lag Dependent Variable	0.51*** (0.02)	0.51*** (0.01)	0.58*** (0.01)
Constant	0.01 (0.03)	-0.56*** (0.19)	-0.10*** (0.04)
N	1,571	1,572	1,572
R ² -Adjusted	0.42	0.49	0.54

**Table E8. Regression Results from Specification (2):
Sweden**

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	-0.08*** (0.03)	-0.08 (0.07)	-0.06*** (0.02)
FOMC UMP Announcement	0.09*** (0.03)	-0.22** (0.09)	-0.15*** (0.03)
FOMC Minutes Release	-0.05 (0.04)	-0.16* (0.09)	-0.01 (0.03)
U.S. GDP	0.25 (0.28)	-0.66 (0.73)	-0.15 (0.23)
U.S. EHS	0.30 (0.27)	2.32*** (0.71)	0.67*** (0.23)
U.S. UNM	-0.14 (0.28)	-0.55 (0.70)	0.06 (0.23)
U.S. NFP	0.07 (0.26)	1.17* (0.66)	0.33 (0.21)
U.S. RTS	0.31 (0.26)	1.76*** (0.68)	0.87*** (0.22)
U.S. HGS	0.11 (0.28)	0.22 (0.69)	-0.04 (0.22)
U.S. CCR	0.64** (0.27)	0.05 (0.70)	0.22 (0.22)
U.S. MFI	0.59* (0.34)	0.59 (0.79)	0.30 (0.25)
U.S. JBC	0.01 (0.12)	-0.73** (0.30)	-0.18* (0.10)
U.S. DGO	-0.12 (0.28)	-0.08 (0.69)	-0.17 (0.22)
FOMC PR: Certainty	-0.65*** (0.25)	0.17 (0.66)	0.00 (0.21)
FOMC PR: Optimism	-1.73*** (0.59)	-0.16 (1.53)	-0.20 (0.49)
FOMC PR: Pessimism	-0.02 (0.37)	1.36 (0.95)	0.14 (0.31)
FOMC Minutes: Certainty	-0.70 (0.57)	-0.92 (1.27)	-0.32 (0.41)
FOMC Minutes: Optimism	-2.38** (1.09)	-2.44 (2.48)	-0.95 (0.79)
FOMC Minutes: Pessimism	-0.76 (0.95)	-0.74 (2.34)	-0.68 (0.75)

(continued)

Table E8. (Continued)

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
U.S. Fed Purdah	-0.10 (0.14)	0.37 (0.36)	0.01 (0.11)
DOM Press Release	0.25 (0.35)	0.04 (0.89)	0.12 (0.29)
DOM Minutes Release	-0.39 (0.42)	-0.91 (1.02)	-0.06 (0.33)
DOM PR: Certainty	0.36 (0.42)	0.11 (1.10)	0.20 (0.35)
DOM PR: Optimism	0.40 (0.71)	-0.70 (1.77)	0.19 (0.57)
DOM PR: Pessimism	-2.31*** (0.64)	1.11 (1.68)	1.02* (0.54)
DOM Minutes: Certainty	-0.74 (0.84)	0.82 (1.60)	0.19 (0.51)
DOM Minutes: Optimism	-1.20 (1.57)	-4.72 (3.89)	-1.71 (1.25)
DOM Minutes: Pessimism	-0.56 (1.09)	-1.23 (2.60)	-0.72 (0.83)
DOM Purdah	0.11 (0.18)	-0.22 (0.46)	0.09 (0.15)
Lag Dependent Variable	0.52*** (0.01)	0.52*** (0.02)	0.58*** (0.02)
Constant	-0.06 (0.07)	-0.19 (0.18)	-0.05 (0.06)
N	1,422	1,572	1,572
R ² -Adjusted	0.48	0.34	0.48

**Table E9. Regression Results from Specification (2):
Switzerland**

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	-0.20*** (0.07)	-0.30*** (0.09)	-0.03 (0.03)
FOMC UMP Announcement	-0.09 (0.09)	0.14 (0.11)	-0.05 (0.04)
FOMC Minutes Release	-0.08 (0.09)	-0.31*** (0.11)	-0.07* (0.04)
U.S. GDP	1.06 (0.75)	-1.31 (0.91)	-0.03 (0.33)
U.S. EHS	0.43 (0.76)	-0.63 (0.89)	0.57* (0.33)
U.S. UNM	0.56 (0.76)	-0.76 (0.88)	0.38 (0.32)
U.S. NFP	0.52 (0.66)	1.45* (0.82)	0.23 (0.30)
U.S. RTS	2.91*** (0.66)	0.64 (0.85)	0.67** (0.31)
U.S. HGS	0.81 (0.73)	0.04 (0.86)	0.01 (0.31)
U.S. CCR	-0.57 (0.75)	-0.63 (0.87)	-0.64** (0.32)
U.S. MFI	1.02 (0.78)	-1.37 (0.98)	-0.12 (0.36)
U.S. JBC	-1.18*** (0.32)	-0.75** (0.38)	-0.17 (0.14)
U.S. DGO	0.45 (0.76)	-0.54 (0.86)	0.08 (0.31)
FOMC PR: Certainty	0.07 (0.69)	0.89 (0.82)	-0.19 (0.30)
FOMC PR: Optimism	-1.69 (1.52)	-2.46 (1.92)	-0.28 (0.70)
FOMC PR: Pessimism	0.36 (0.90)	-3.27*** (1.19)	-0.28 (0.43)
FOMC Minutes: Certainty	0.05 (1.50)	-0.89 (1.59)	-0.03 (0.58)
FOMC Minutes: Optimism	-1.29 (2.81)	-1.02 (3.10)	-0.22 (1.13)
FOMC Minutes: Pessimism	-1.23 (2.46)	-1.67 (2.92)	0.12 (1.06)

(continued)

Table E9. (Continued)

	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
U.S. Fed Purdah	0.20 (0.40)	-0.84* (0.45)	-0.14 (0.16)
DOM Press Release	-0.98 (1.13)	3.20** (1.31)	0.12 (0.48)
DOM PR: Certainty	1.51* (0.79)	0.42 (0.78)	0.37 (0.29)
DOM PR: Optimism	0.84 (1.50)	-1.78 (1.90)	0.03 (0.69)
DOM PR: Pessimism	4.18** (1.66)	-2.60 (1.83)	-0.59 (0.67)
Lag Dependent Variable	0.41*** (0.01)	0.18*** (0.02)	0.47*** (0.02)
Constant	0.00 (0.19)	-0.36* (0.21)	-0.06 (0.08)
N	1,092	1,572	1,572
R ² -Adjusted	0.71	0.10	0.34

Appendix F. U.S. Regression Results from Specification (2) Using Lewbel Model

Table F1 shows estimates for model (2) using Lewbel's (2012) method for identification via heteroskedasticity. FOMC press releases, meeting minutes releases, and unconventional monetary policy (UMP) announcements are instrumented using a function of the remaining variables in the model. U.S. surprise macroeconomic news variables include gross domestic product growth (GDP), existing home sales (EHS), unemployment rate (UNM), non-farm payroll (NFP), retail sales (RTS), housing starts (HGS), consumer credit (CCR), manufacturing index (MFI), jobless claims (JBC), and durable goods orders (DGO). *, **, and *** indicate statistical significance at the 10 percent, 5 percent, and 1 percent level, respectively.

Table F1. U.S. Regressions Results from Specification (2) Using Lewbel Model

	Three-Month LIBOR-OIS Spread	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
FOMC Press Release	0.15 (0.12)	-0.05 (0.07)	-0.63*** (0.14)	-0.11*** (0.04)
FOMC UMP Announcement	-0.23 (0.15)	-0.11 (0.09)	0.06 (0.17)	-0.09** (0.05)
FOMC Minutes Release	-0.04 (0.15)	-0.10 (0.08)	-0.04 (0.18)	-0.14*** (0.05)
U.S. GDP	-0.47 (1.11)	1.11 (0.69)	0.35 (1.24)	0.31 (0.34)
U.S. EHS	-1.51 (1.07)	0.49 (0.68)	0.77 (1.22)	0.22 (0.34)
U.S. UNM	-0.84 (1.09)	0.29 (0.67)	0.93 (1.26)	0.34 (0.35)
U.S. NFP	0.23 (1.04)	1.47** (0.63)	0.43 (1.18)	0.25 (0.33)
U.S. RTS	-0.69 (1.07)	1.73*** (0.65)	1.68 (1.19)	1.27*** (0.33)
U.S. HGS	-0.78 (1.04)	-0.23 (0.66)	-1.31 (1.24)	-0.23 (0.34)

(continued)

Table F1. (Continued)

	Three-Month LIBOR-OIS Spread	One-Year OIS	Sovereign Bond Spread	Ten-Year Sovereign Bond Yield
U.S. CCR	-0.63 (1.11)	0.19 (0.67)	0.22 (1.34)	0.22 (0.37)
U.S. MFI	0.64 (1.41)	1.93*** (0.75)	-2.14 (1.51)	0.54 (0.42)
U.S. JBC	0.55 (0.47)	-0.57** (0.29)	-1.62*** (0.54)	-0.31** (0.15)
U.S. DGO	-0.79 (1.12)	-0.21 (0.66)	-0.39 (1.25)	-0.26 (0.34)
FOMC PR: Certainty	0.08 (0.99)	0.77 (0.63)	0.73 (1.17)	-0.20 (0.32)
FOMC PR: Optimism	0.53 (2.29)	1.69 (1.46)	-2.94 (2.65)	0.07 (0.73)
FOMC PR: Pessimism	-0.05 (1.44)	0.50 (0.91)	3.53** (1.69)	0.14 (0.47)
FOMC Minutes: Certainty	2.01 (2.74)	-0.85 (1.21)	6.99** (2.89)	0.46 (0.80)
FOMC Minutes: Optimism	0.16 (4.61)	-0.46 (2.37)	14.85*** (5.56)	2.20 (1.53)
FOMC Minutes: Pessimism	-0.35 (4.31)	-0.54 (2.23)	8.11* (4.77)	0.69 (1.32)
U.S. Fed Purdah	-0.82 (0.55)	-0.28 (0.34)	1.59** (0.63)	0.08 (0.17)
Lag Dependent Variable	0.39*** (0.03)	0.45*** (0.02)	0.50*** (0.02)	0.40*** (0.02)
Constant	0.43 (0.27)	0.00 (0.16)	0.24 (0.32)	-0.01 (0.09)
N	1,389	1,572	1,335	1,338
R ² -Adjusted	0.15	0.22	0.30	0.25
Cragg-Donald F-Stat (Stock-Yogo Critical Value at 5% Maximal IV Relative Bias)	130.02 (20.73)	316.41 (20.73)	163.68 (20.73)	145.68 (20.73)

Appendix G: Regressions Results from Specification (3)

In tables G1–G3, estimates for model (3) with standard errors are shown in parentheses. U.S. estimation uses robust least squares; estimation for systemically important advanced economies (SIAEs) and small open advanced economies (SOAEs) use fixed effects with clustered standard errors. Only the coefficient estimates on the monetary policy surprises in the U.S. (MPS^{US}) and U.S. FOMC communications content (C^{US}) are reported; see appendix C for a full list of control variables included in the regressions. $I(MPS^2)$ is a Heaviside variable equal to one when the policy surprise variable (second principal component of U.S. MPS) is positive, and zero otherwise. *, **, and *** indicate statistical significance at the 10 percent, 5 percent, and 1 percent level, respectively.

**Table G1. Regressions Results from Specification (3):
United States**

	Three-Month LIBOR-OIS Spread	One-Year OIS	Bond Spread	Ten-Year Yield
Press Release	−0.06 (0.07)	−0.05 (0.05)	−0.53*** (0.10)	−0.14*** (0.03)
UMP Announcement	−0.03 (0.09)	−0.06 (0.06)	0.10 (0.12)	−0.02 (0.04)
Minutes Release	0.06 (0.10)	0.04 (0.06)	−0.29** (0.14)	−0.12*** (0.04)
PR: Certainty	0.37 (1.00)	0.43 (0.74)	−1.23 (1.37)	−0.21 (0.44)
$I(MPS^2)*PR$: Certainty	0.53 (1.26)	−0.72 (0.93)	−0.98 (1.74)	0.03 (0.56)
PR: Optimism	−0.84 (2.12)	1.12 (1.58)	−8.12*** (2.90)	−1.09 (0.93)
$I(MPS^2)*PR$: Optimism	1.83 (2.91)	−3.89* (2.16)	11.40*** (3.97)	2.31* (1.27)
PR: Pessimism	−2.40** (1.09)	−0.14 (0.80)	−6.46*** (1.48)	−0.70 (0.47)
$I(MPS^2)*PR$: Pessimism	3.47* (2.10)	4.29*** (1.56)	16.00*** (2.98)	2.96*** (0.95)
Minutes: Certainty	2.00 (1.74)	−0.47 (0.90)	1.19 (2.20)	0.45 (0.70)
Minutes: Optimism	−2.07 (2.93)	0.90 (1.75)	6.46 (4.23)	1.03 (1.35)
Minutes: Pessimism	0.30 (2.73)	0.47 (1.65)	1.41 (3.63)	1.14 (1.16)
N	1,389	1,572	1,335	1,338
R^2 -Adjusted	0.28	0.30	0.36	0.30

**Table G2. Regressions Results from Specification (3):
SIAEs**

	Three-Month LIBOR-OIS Spread	One-Year OIS	Bond Spread	Ten-Year Yield
Press Release	-0.05 (0.07)	-0.15 (0.07)	-0.16 (0.14)	-0.07** (0.01)
UMP Announcement	0.20 (0.13)	-0.05 (0.04)	-0.11 (0.09)	-0.05*** (0.01)
Minutes Release	-0.12 (0.06)	-0.22 (0.11)	-0.12 (0.17)	-0.06* (0.02)
PR: Certainty	0.69 (4.01)	2.74 (2.85)	0.11 (0.93)	0.17 (0.08)
I(MPS ²)*PR: Certainty	-0.90 (3.74)	-3.29 (2.86)	0.43 (1.53)	-0.02 (0.11)
PR: Optimism	2.32 (6.04)	-1.66*** (0.13)	-1.75 (1.62)	-0.34 (0.24)
I(MPS ²)*PR: Optimism	-0.92 (7.13)	2.59 (2.48)	0.17 (1.09)	-0.19 (0.46)
PR: Pessimism	4.29 (3.57)	0.33 (0.56)	-1.55* (0.50)	-0.64* (0.21)
I(MPS ²)*PR: Pessimism	-4.87 (4.15)	2.69 (0.98)	4.26* (1.53)	1.40 (0.63)
Minutes: Certainty	3.76 (7.29)	-1.58 (1.02)	-1.06 (1.33)	-0.57 (0.42)
Minutes: Optimism	-2.72 (8.82)	-4.97 (3.31)	-3.86 (3.66)	-1.27* (0.49)
Minutes: Pessimism	5.61 (10.23)	-2.19 (1.62)	1.31 (2.03)	-0.26 (0.46)
N	4,906	3,942	5,460	6,036
R ² -Adjusted	0.05	0.13	0.12	0.26

Table G3. Regressions Results from Specification (3): SOAEs

	Three-Month LIBOR-OIS Spread	One-Year OIS	Bond Spread	Ten-Year Yield
Press Release	-0.15** (0.03)	-0.02 (0.01)	-0.22 (0.10)	-0.06*** (0.01)
UMP Announcement	0.14 (0.06)	-0.02 (0.03)	-0.03 (0.06)	-0.04* (0.02)
Minutes Release	0.06 (0.06)	-0.06 (0.03)	-0.26*** (0.03)	-0.06*** (0.01)
PR: Certainty	2.36** (0.65)	0.17 (0.08)	-0.40 (0.23)	1.08 (1.15)
I(MPS ²)*PR: Certainty	-2.54* (0.94)	-0.02 (0.11)	0.00 (0.28)	-1.70 (2.62)
PR: Optimism	4.38** (1.29)	-0.34 (0.24)	-0.75 (0.43)	-0.60 (1.29)
I(MPS ²)*PR: Optimism	0.15 (3.63)	-0.19 (0.46)	-0.24 (0.64)	1.18 (2.51)
PR: Pessimism	3.99*** (0.54)	-0.64* (0.21)	0.15 (0.12)	-0.94 (1.08)
I(MPS ²)*PR: Pessimism	-3.55 (5.25)	1.40 (0.63)	0.70 (0.61)	5.30* (1.96)
Minutes: Certainty	0.58 (1.13)	-0.57 (0.42)	-0.23 (0.13)	-1.52 (1.39)
Minutes: Optimism	1.90 (2.63)	-1.27* (0.49)	-0.06 (0.51)	-2.67 (1.83)
Minutes: Pessimism	0.83 (1.82)	-0.26 (0.46)	-1.16** (0.26)	0.20 (0.62)
N	5,122	7,515	6,522	7,479
R ² -Adjusted	0.10	0.31	0.25	0.32

References

- Lewbel, A. 2012. "Using Heteroscedasticity to Identify and Estimate Mismeasured and Endogenous Regressor Models." *Journal of Business and Economic Statistics* 30 (1): 67–80.
- Loughran, T., and B. McDonald. 2011. "When Is a Liability Not a Liability? Textual Analysis, Dictionaries, and 10-Ks." *Journal of Finance* 66 (1): 35–65.