



Does Presidential Partisanship Affect Fed Inflation Forecasts?

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November 13, 2012

- Motivation
- Describing Forecast Errors
- What Might Explain Forecast Errors?
- 4 Empirical Tests
- 6 Conclusions

Working Paper

The working paper is available on SSRN at:

http://papers.ssrn.com/sol3/papers.cfm? abstract_id=2105301. Presidential Partisan Inflation Forecast Bias

Presidential Partisan Inflation Forecast Bias:

When inflation forecasts are systematically different depending on the partisan identification of the United States president.

Motivation

Why should we care about presidential partisan inflation forecast bias?

- ► Clark & Arel-Bundock (2011) find policymakers at the Federal Reserve are not politically indifferent.
- ▶ Could be that the information they receive is biased.
- Economists have not considered political preferences when evaluating Fed accuracy.

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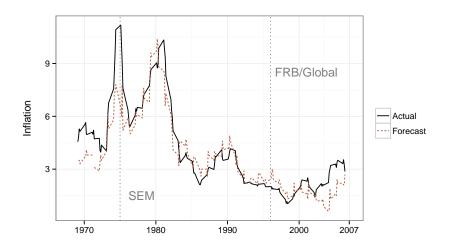
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Forecast Accuracy

How accurate are Fed inflation forecasts?



$$E_q = \frac{F_q - I_q}{I_q}$$

- $lackbox{\it E}_q = {
 m the standardized inflation forecast error for quarter } q.$
- ▶ F_q = Green Book inflation forecast for quarter q. (We use forecasts made two quarters prior).
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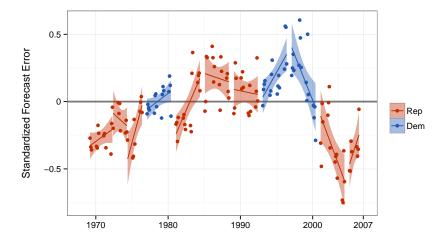
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Ideally, the mean forecast error is 0.

Consistent errors \rightarrow "wrong" policies.



Possible explanations

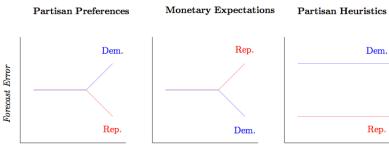
What might explain forecast errors?

- Forecasts produced for every FOMC meeting.
- Over long run no bias (e.g., Romer and Romer 2000).
- ▶ Periods of over- and under-estimations (Capistrán 2008).
- ▶ No research on partisan influence of forecast errors.

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Duration of Pres. Term

Followed Ho et al. (2010) to isolate relationship between presidential partisanship/elections and the other controls.

- 1. Two data sets matched on:
 - presidential party ID
 - election period
- Used these in parametric models with standardized inflation forecast errors as continuous dependent variable.

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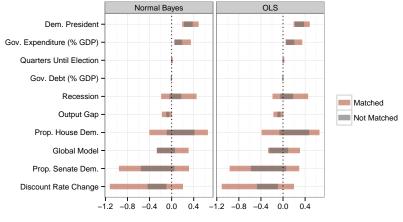
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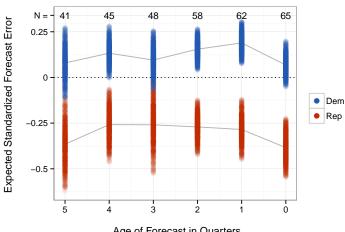
Results?

Main Results (2 Quarter Old Forecasts)



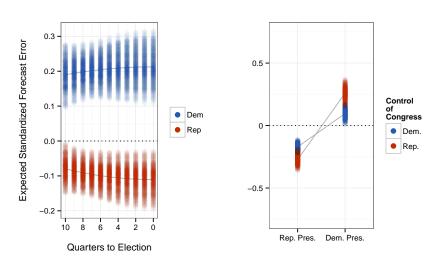
Coefficient Estimate

Simulated Errors (All Forecasts)

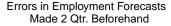


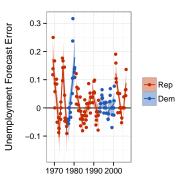
Age of Forecast in Quarters

Interactions (2 Quarter Old Forecasts)

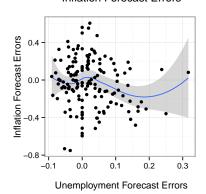


Diagnostic Orthogonal Dependent Variable





Scatterplot of Unemployment and Inflation Forecast Errors



Does presidential partisanship affect Fed staff inflation forecasts?

Probably.

How?

- ► Fed staff don't have an electoral bias.
 - Don't seem to try to influence election outcomes or compensate for FOMC political preferences.
- ► Fed staff do use a partisan heuristic.
 - Leads to systematic bias in inflation forecasts across presidential terms.

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 - ► Leads to **systematic bias** in inflation forecasts across presidential terms.

- ► High inflation forecasts during **Democratic** presidencies → interest rates 'too high'.
 - ▶ This could hurt Democrats' re-election chances.
- ▶ Low forecasts during Republican presidencies → interest rates 'too low'.
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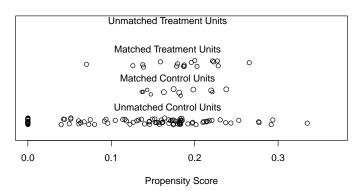
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Backup Slides

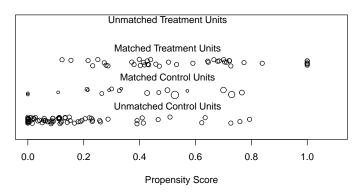
Propensity Score Matching by Election Quarter

Distribution of Propensity Scores



Propensity Score Matching by Presidential Party ID

Distribution of Propensity Scores



OLS Regressions with Non-Matched Data

Recession Debt/GDP - Expenditure/GDP Output Gap - Discount Rate Change -	(0.1) -0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0)	4.0** (1.3) -0.0 (0.1) -0.0 (0.0) 0.1*** (0.0) -0.1** (0.0) -0.1* (0.0) -0.1 (0.0) -0.0 (0.0) -0.1	4.1** (1.3) 0.0 (0.1) -0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.1 (0.1)	4.6*** (1.0) 0.1 (0.1) -0.0* (0.0) 0.2*** (0.0) -0.1*** (0.1)	4.5 (1.1) (0.1) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	4.5*** (1.1) 0.1 (0.1) -0.0 (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0 (0.0)	4.5*** (1.1) 0.1 (0.1) 0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0 (0.0)	4.2***(1.1) 0.1 (0.1) 0.0 (0.0) 0.1** (0.0) -0.1*** (0.0) -0.3** (0.1)	4.6*** (1.1) 0.0 (0.1) -0.0 (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0 (0.0)	4.6****(1.0) 0.1 (0.1) -0.0 (0.0) 0.1**** (0.0) -0.1**** (0.0) -0.2*** (0.1) 0.0* (0.0)	(1.0) 0.1 (0.1) -0.0 (0.0) 0.2**** (0.0) -0.1*** (0.0) -0.2* (0.1) 0.0*	3.1* (1.3) 0.1 (0.1) 0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.2* (0.1) 0.0*	-1.8** + (0.4)
Recession Debt/GDP - Expenditure/GDP Output Gap - Discount Rate Change - Qtr. to Election Election Period Pres. Party ID	0.0 (0.1) -0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.1	-0.0 (0.1) -0.0 (0.0) 0.1**** (0.0) -0.1**** (0.0) -0.1 (0.1) 0.0	0.0 (0.1) -0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.1 (0.1)	0.1 (0.1) -0.0* (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1)	0.1 (0.1) -0.0* (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0 (0.0)	0.1 (0.1) -0.0 (0.0) 0.2**** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	0.1 (0.1) 0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	0.1 (0.1) 0.0 (0.0) 0.1** (0.0) -0.1*** (0.0) -0.3**	0.0 (0.1) -0.0 (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	0.1 (0.1) -0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.2** (0.1) 0.0*	0.1 (0.1) -0.0 (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.2* (0.1) 0.0*	0.1 (0.1) 0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.2* (0.1) 0.0*	(0.4)
Debt/GDP Expenditure/GDP Output Gap Discount Rate Change Qtr. to Election Election Period Pres. Party ID	-0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.1	-0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.1 (0.1) 0.0	-0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.1 (0.1)	-0.0* (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1)	-0.0* (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0 (0.0)	-0.0 (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	0.0 (0.0) 0.1** (0.0) -0.1*** (0.0) -0.3**	-0.0 (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	-0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.2** (0.1) 0.0*	-0.0 (0.0) 0.2*** (0.0) -0.1*** (0.0) -0.2* (0.1) 0.0*	0.0 (0.0) 0.1*** (0.0) -0.1*** (0.0) -0.2* (0.1) 0.0*	
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Expenditure/GDP Output Gap Discount Rate Change - Qtr. to Election Election Period Pres. Party ID	0.1*** (0.0) -0.1*** (0.0) -0.1	0.1*** (0.0) -0.1*** (0.0) -0.1 (0.1) 0.0	0.1*** (0.0) -0.1*** (0.0) -0.1 (0.1)	0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1)	0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0 (0.0)	0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	0.1*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	0.1** (0.0) -0.1*** (0.0) -0.3**	0.2*** (0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	0.1*** (0.0) -0.1*** (0.0) -0.2** (0.1) 0.0*	0.2*** (0.0) -0.1*** (0.0) -0.2* (0.1) 0.0*	0.1*** (0.0) -0.1*** (0.0) -0.2* (0.1) 0.0*	
Output Gap Discount Rate Change - Qtr. to Election Election Period Pres. Party ID	(0.0) -0.1*** (0.0) -0.1	(0.0) -0.1*** (0.0) -0.1 (0.1) 0.0	(0.0) -0.1*** (0.0) -0.1 (0.1)	-0.1*** (0.0) -0.3** (0.1)	(0.0) -0.3** (0.1) 0.0 (0.0)	(0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	(0.0) -0.1*** (0.0) -0.3** (0.1) 0.0	(0.0) $-0.1***$ (0.0) $-0.3**$	-0.1*** (0.0) -0.3** (0.1) 0.0	(0.0) -0.1*** (0.0) -0.2** (0.1) 0.0*	(0.0) -0.1*** (0.0) -0.2* (0.1) 0.0*	(0.0) -0.1*** (0.0) -0.2* (0.1) 0.0*	
Discount Rate Change - Qtr. to Election Election Period Pres. Party ID	(0.0) -0.1	(0.0) -0.1 (0.1) 0.0	(0.0) -0.1 (0.1)	(0.0) -0.3** (0.1)	(0.0) -0.3** (0.1) 0.0 (0.0)	(0.0) -0.3** (0.1) 0.0	(0.0) -0.3** (0.1) 0.0	(0.0) -0.3**	(0.0) -0.3** (0.1) 0.0	(0.0) -0.2** (0.1) 0.0*	(0.0) -0.2* (0.1) 0.0*	(0.0) -0.2* (0.1) 0.0*	
Discount Rate Change Qtr. to Election Election Period Pres. Party ID	-0.1	-0.1 (0.1) 0.0	-0.1 (0.1)	-0.3** (0.1)	-0.3** (0.1) 0.0 (0.0)	-0.3** (0.1) 0.0	-0.3** (0.1) 0.0	-0.3**	-0.3** (0.1) 0.0	-0.2** (0.1) 0.0*	-0.2* (0.1) 0.0*	-0.2* (0.1) 0.0*	
Qtr. to Election Election Period Pres. Party ID	(0.1)	0.0	-0.0		0.0	0.0	0.0	(0.1)	0.0	0.0*	0.0*	0.0*	
Election Period Pres. Party ID				0.3***	(0.0)								
Pres. Party ID		(0.0)		0.3***		(0.0)	(0.0)		(0.0)	(0.0)		(0.0)	
			(0.1)	0.3***							(0.0)	(0.0)	
					0.3***	0.3***	0.3***	0.3***	0.3***	1.0***	1.1***	1.6*	2.2**
Senate Dem/Rep				(0.0)	(0.0)	(0.0)	(0.0)	(0.1)	(0.0)	(0.1)	(0.2)	(0.7)	(0.8)
						-0.2	-0.3	-0.3 [†]		-0.1	-0.0	0.5	0.8*
						(0.1)	(0.2)	(0.2)		(0.1)	(0.1)	(0.3)	(0.3)
House Dem/Rep						(0.1)	(0.1)	(0.1)		0.4**	0.3*	(0.3)	(0.3)
FRB/GlobalModel						(0.0)	-0.1	-0.1		()	(0.12)	(0.0)	(0.0)
Qrt. Election2							(0.1)	(0.1)					
Qrt. Election2								(0.0)					
Pres*Qrt. Election2								-0.0					
Burns								(0.0)	0.2				
Burns									(0.2)				
Greenspan									0.2				
Martin									(0.1)				
									(0.2)				
Miller									0.1				
Volcker									(0.2)				
									(0.2)				
Pres*House										-0.5***		-1.5 [†]	-2.5**
Pres*Senate										(0.1)	-0.7***	(0.8) -0.2	(0.9) -0.2
											(0.1)	(0.8)	(0.7)
House*Senate												-0.5*	-0.9***
Pres*House*Senate												(0.2)	(0.2) 1.0 [†]
												(0.5)	(0.5)
N 1:												131	131
R ²	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5
adj. R ² Resid. sd	0.3	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5

Standard errors in parentheses † significant at p < .10; *p < .05; **p < .01; ***p < .001

OLS Regressions with Election Matched Data

	В1	B2	В3	B4	B5	В6	В7	B8	В9	B10	B11	B12
Intercept	3.8	3.9	3.7	2.6	2.7	4.5	1.8	1.8	3.1	2.4	-1.7	-3.2**
Intercept	(3.3)	(3.3)	(3.3)	(2.9)	(2.9)	(3.2)	(4.3)	(4.4)	(2.7)	(3.0)	(4.3)	(0.8)
Debt/GDP	-0.0	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.0	-0.0	-0.0	0.0	(0.0)
Debt/GDI	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	
Expenditure/GDP	0.1*	0.1*	0.1*	0.2***			0.1	0.1	0.3**			
Expenditure/GD1	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	
Output Gap	-0.1	-0.1	-0.1	-0.1 [†]	-0.1 [†]	-0.1*	-0.0	-0.0	-0.1*	-0.1*	-0.0	
Output Gap	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.1)	(0.1)	(0.0)	(0.0)	(0.0)	
Discount Rate Change	-0.5	-0.5	-0.5	-0.1	-0.2	0.1	0.3	0.3	0.2	0.2	0.4	
Discount Rate Change	(0.3)	(0.3)	(0.3)	(0.3)	(0.3)	(0.4)	(0.4)	(0.4)	(0.3)	(0.3)	(0.3)	
Qtr. to Election	(0.5)	0.0	(0.3)	(0.5)	0.0	0.0	0.0	(0.4)	0.0	0.0	0.0*	
Qtr. to Election		(0.0)			(0.0)	(0.0)	(0.0)		(0.0)	(0.0)	(0.0)	
Election Period		(0.0)	0.0		(0.0)	(0.0)	(0.0)		(0.0)	(0.0)	(0.0)	
Election Feriod			(0.1)									
Pres. Party ID			(0.1)	0.3**	0.3**	0.4**	0.4**	0.5**	1.4**	* 1.6**	1.0	0.6
ries. rarty ID				(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.3)	(0.5)	(0.6)	(0.4)
Senate Dem/Rep				(0.1)	(0.1)	0.0	-0.1	-0.2	0.4	0.5	2.4*	2.1*
Senate Dem/Rep						(0.3)	(0.4)	(0.4)	(0.3)	(0.4)	(1.1)	(0.8)
House Dem/Rep						0.4	0.4)	0.2	0.1	0.0	2.3**	2.3***
House Dem/Rep						(0.4)	(0.5)	(0.5)	(0.4)	(0.4)	(0.8)	(0.5)
FRB/GlobalModel						(0.4)	-0.4	-0.4	(0.4)	(0.4)	(0.0)	(0.3)
FRB/Giobalwiodei							(0.4)	(0.4)				
Qrt. Election2							(0.4)	0.0				
Qrt. Election2								(0.0)				
Pres*Ort. Election2								-0.0				
Fres Qrt. Election2												
Pres*House								(0.0)	-0.8**		-2.6**	-2.7**
Pres"House									(0.2)			
Pres*Senate									(0.2)	-1.0*	(0.9) 2.5	(0.7) 2.8*
Pres Senate										(0.4)		
House*Senate										(0.4)	(1.5) -1.5^*	(1.1)
House Senate												-1.5**
N	00	00	00	00	00	00	00	00	00	00	(0.6)	(0.4)
R^2	30 0.3	30 0.3	30 0.3	30 0.5	30 0.5	30 0.5	30 0.6	30 0.6	30 0.7	30 0.6	30 0.8	30 0.7
R^2 adj. R^2	0.3	0.3	0.3	0.5	0.5	0.5	0.6	0.6	0.7	0.6	0.8	0.6
adj. 142 Resid. sd	0.2	0.1	0.1	0.4	0.4	0.4	0.4	0.3	0.6	0.5	0.7	
riesiu. su	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Standard errors in parentheses

[†] significant at p < .10: *p < .05: **p < .01: ***p < .001

The recession variable is ommitted because there was no variation in the matched data set.

The reason that there was no variation is because there was never a recession during an election period in our data set.

OLS Regressions with Election Matched Data

	C1	C2	СЗ	C4	C5	C6	C7	C8	C9	C10	C11	C12
Intercept	6.3	6.4	6.5 [†]	6.4*	6.4*	4.7	4.6	2.0	4.6	3.1	6.0	-1.7^{*}
	(3.8)	(3.8)	(3.8)	(3.1)	(3.2)	(3.5)	(3.6)	(4.1)	(2.8)	(2.9)	(3.9)	(0.7)
Recession	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	
	(0.2)	(0.2)	(0.2)	(0.1)	(0.2)	(0.2)	(0.2)	(0.2)	(0.1)	(0.1)	(0.1)	
Debt/GDP	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0	
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	
Expenditure/GDP	0.2**		0.2**	0.2**			0.2*	0.1^{\dagger}	0.2**	0.2**		
	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	
Output Gap	-0.1^{*}	-0.1^{*}	-0.1^{*}	-0.1**			-0.1^{\dagger}	-0.1	-0.1^{*}	-0.1^{*}	-0.1^{*}	
	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	
Discount Rate Change	-0.3	-0.3	-0.2	-0.5^{\dagger}	-0.6^{\dagger}	-0.5	-0.5	-0.5	-0.4	-0.3	-0.5	
	(0.3)	(0.3)	(0.3)	(0.3)	(0.3)	(0.3)	(0.3)	(0.3)	(0.2)	(0.3)	(0.3)	
Qtr. to Election		0.0			0.0	0.0	0.0		0.0*	0.0^{\dagger}	0.0*	
		(0.0)			(0.0)	(0.0)	(0.0)		(0.0)	(0.0)	(0.0)	
Election Period			0.1									
			(0.1)									
Pres. Party ID				0.3**								2.1*
				(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.2)	(0.2)	(1.1)	(1.0)
Senate Dem/Rep						-0.4	-0.3	-0.6	-0.1	0.0	-0.3	0.5
						(0.3)	(0.3)	(0.4)	(0.2)	(0.2)	(0.8)	(0.7)
House Dem/Rep						0.1	0.1	0.5	0.6*	0.4	0.6	1.5**
FRB/GlobalModel						(0.3)	(0.3)	(0.4)	(0.2)	(0.2)	(0.7)	(0.5)
FRB/Giobalwiodei							(0.1)	(0.1)				
Ort. Election2							(0.1)	0.0				
Qrt. Election2								(0.0)				
Pres*Qrt. Election2								-0.0				
Fres Qrt. Election2								(0.0)				
Pres*House								(0.0)	-0.8**		-1.3	-2.4^{+}
res rouse									(0.1)		(1.2)	(1.0)
Pres*Senate									(0.1)	-1.0**		0.2
res semic										(0.2)	(1.5)	(0.9)
House*Senate										(0.2)	0.0	-0.6
nouse benne											(0.5)	(0.4)
Pres*House*Senate											0.0	0.8
											(0.7)	(0.6)
N	60	60	60	60	60	60	60	60	60	60	60	60
R^2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.5	0.7	0.6	0.7	0.6
adj. R^2	0.1	0.1	0.1	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.5
Resid. sd	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Standard errors in parer	ntheses											

Standard errors in parentheses † significant at p < .10: *p < .05: **p < .01: ***p < .001

Table: Bayesian Normal Linear Regression Estimation of Covariate Effects on 2 Qtr. Inflation Forecast Error (non-matched data set)

cts on 2 Qtr. initation	rorecast E	rror (no	on-matc	neu uata	i set)
Variables	Mean	SD	2.5%	50%	97.5%
Intercept	4.49	0.99	2.56	4.49	6.46
Pres. Party ID	0.30	0.04	0.22	0.30	0.38
Recession	0.07	0.05	-0.04	0.07	0.17
Qtr. to Election	-0.00	0.00	-0.01	-0.00	0.00
Senate Dem/Rep	-0.26	0.15	-0.56	-0.26	0.05
House Dem/Rep	0.16	0.13	-0.09	0.16	0.41
Debt/GDP	0.00	0.00	-0.01	0.00	0.01
Expenditure/GDP	0.12	0.04	0.05	0.12	0.19
Output Gap	-0.07	0.01	-0.10	-0.07	-0.04

-0.27

-0.10

0.04

0.09

0.08

0.00

-0.44

-0.27

0.03

-0.27

-0.10

0.03

-0.10

0.06

0.04

Discount Rate Change

Global Model

sigma2

Table: Bayesian Normal Linear Regression Estimation of Covariate Effects on 2 Qtr. Inflation Forecast Error (Matched by President's Party ID variable

Variables	Mean	SD	2.5%	50%	97.5%
Intercept	4.60	3.74	-2.70	4.59	11.90
Pres. Party ID	0.34	0.08	0.19	0.34	0.49
Recession	0.13	0.16	-0.19	0.13	0.45
Qtr. to Election	0.01	0.01	-0.01	0.01	0.03
Senate Dem/Rep	-0.33	0.32	-0.96	-0.34	0.31
House Dem/Rep	0.13	0.27	-0.40	0.13	0.66
Debt/GDP	-0.00	0.01	-0.02	-0.00	0.01
Expenditure/GDP	0.20	0.08	0.05	0.20	0.35
Output Gap	-0.08	0.05	-0.18	-0.08	0.01
Discount Rate Change	-0.46	0.34	-1.12	-0.46	0.20
Global Model	0.02	0.15	-0.27	0.02	0.31
sigma2	0.05	0.01	0.03	0.05	0.08