Supplemental Appendices to
Party Calls and Reelection in the U.S. Senate

Contents

Appendix A: Classifying Party Calls

As in Minozzi and Volden (2013), we use an algorithm to classify votes as "party calls"—that is, whether votes are predicted by party membership even after controlling for ideology. We classify votes as "party free" if, in turn, they are *not* reliably predicted by party membership, and we use those "party free" votes to estimate ideal points absent party influence.

The classification algorithm is iterative. In each iteration of the algorithm, ideal points are estimated based only on the votes which were classified as "party free" in the previous iteration. All votes are then regressed on ideal points and party membership, and votes are re-categorized based on the explanatory power of party in these regressions. To begin the process we need an initial classification, and so ideal points in the first iteration are estimated using lopsided votes (which have more than 65% or less than 35% of members of the chamber voting on the same side). We then use a 15 iteration "burn-in" period for each Congress. During this early period, many votes switch categories from iteration to iteration. The number of switchers declines rapidly in these early iterations. After burn-in, the algorithm continues until either (1) the number of votes that switch classifications stops declining, or (2) there are fewer than five votes that switch. Once either condition is met, the algorithm continues for an additional 15 iterations. Finally, we use the last five iterations to provide a final classification of votes. During these final iterations, any vote that does not switch is classified in its appropriate category. Any vote that does switch is dropped from further analysis, on the basis that these votes could not be credibly classified.

Our algorithm departs from MV's in a few ways, most of them minor. However, a key change was the use of the binIRT command from the R package emIRT (Imai, Lo, and Olmsted, 2016) to estimate ideal points, replacing the ideal command from the R package pscl (Jackman, 2015) used by MV. The binIRT function is considerably faster than ideal, and by using it, we were able to test a much wider variety of alternative specifications to the original algorithm.

The results of these alternative specifications culminated in a few alterations to the original algorithm. Throughout, to ensure continuity of method, we vetted alternatives by re-estimating the results from MV. Those results are remarkably robust to the alternatives we explored. Such

robustness notwithstanding, we elected to make two minor changes.

The original classification algorithm used logistic regression to predict votes, meaning that party-line votes suffered from separation, which was resolved using a bias-reducing logit designed for that purpose (Zorn, 2005). In this paper's classification method, we used linear models of roll call votes instead. The classification based on linear models improved on the bias-reduced logit-based method in three different ways. First, classification using the linear model decreased the proportion of unclassifiable votes from classification using the bias-reduced logit, from 9% to 3% in the House and from 2% to 0.4% in the Senate. Second, party call classification based on linear models increased the positive correlation between close votes and party calls, from 0.18 to 0.51 in the House and from 0.12 to 0.44 in the Senate. Third, within each individual model of a roll call vote, the coefficients on party and ideal point may both be positive, both negative, or have different signs. If party calls work to align party and ideology, then their signs should match at higher rates than those of non-party calls. The difference in match rates between party calls and non-calls therefore constitutes a measure of convergent validity and therefore permits a comparison of the two classification methods. Again, linear models proved the better of the two. We return to these criteria below to more fully evaluate the method used in the paper.

The second minor change to MV's classification method was that the original algorithm classified votes as "party calls" if the p-value on the party indicator in a regression of a roll call vote was smaller than 0.01. However, the House roll call data features many more votes cast per roll call than the Senate, since the lower chamber is much larger. As such, the threshold of 0.01 eventuated in classifying few Senate votes as party calls, essentially because of the smaller n. At the 0.01 threshold, about 15% of classifiable votes were coded as party calls. For reference, in the House, the 0.01 threshold coded about 65% of classifiable votes as party calls. We explored a variety of alternative p-value thresholds and settled on 0.05 for the Senate (keeping $p = 0.01$ for the House), as it increased the fraction of classifiable votes coded as party calls to 52%.

We also explored a variety of alternatives to the algorithm used here, but ultimately rejected them in order to maintain as much consistency with MV as possible. These included using random

initial classifications of votes, adding a "simulated annealing"-style heating and cooling schedule, and alternative stopping rules. We found that none of these alternatives significantly altered the results presented in the paper, nor did they improve convergent validity, and therefore we elected to use an algorithm that closely matched the early effort.

Finally, with this algorithm in hand, we probed for differences in vote classifications using the criteria described briefly above. First, we broke down votes by close/lopsideness and classification as party calls/party free. Table A1 shows these comparisons for each chamber. In each panel, there is a notable, though far from perfect, correlation between close votes and party calls. This correlation is higher in the House (0.51) than in the Senate (0.44), but the two are remarkably close. We take this as prima facie evidence that the classification algorithm is at work on similar data-generating processes.

Table A1: Party Calls and Close/Lopsided Votes

	House		Senate	
	Party Free	Party Call	Party Free	Party Call
Close	1091 (5%)	9305 (45%)	1857 (13%)	5228 (37%)
Lopsided	6122 (29%)	4248 (20%)	4870 (35%)	2068 (15%)

The threshold for a vote to be lopsided was more than 65% of members voting on the same side of a roll call vote.

Next, we focus on whether party influence exacerbates or moderates ideological tendencies. In the regression models we use to classify votes, both ideal points and party are included as predictors of roll call behavior. We can therefore compare the signs on the coefficients of these variables to understand how the two variables interact on the average vote. Perhaps unsurprisingly, we find that the two coefficients have the same sign a majority of the time, regardless of chamber (see top third of Table A2). Interestingly, we further find that party calls explain most of this relationship; similar signs appear for party and ideal points for about 75% of party calls (middle of Table A2), yet less than 50% of non-calls (bottom of Table A2). We interpret this evidence as consistent with the model of party calls advanced in Minozzi and Volden (2013).

Table A2: Comparing Coefficient Signs from Roll Call Regressions

	House		Senate	
	(−) Ideal	(+) Ideal	(−) Ideal	(+) Ideal
All Votes				
(−) Party	8127 (39%)	2888 (14%)	4581 (33%)	2244 (16%)
(+) Party	3394 (16%)	6357 (31%)	3188 (23%)	4010 (29%)
Party Calls Only				
(−) Party	6166 (45%)	1042 (8%)	2807 (38%)	793 (11%)
(+) Party	1312 (10%)	5033 (37%)	1129 (15%)	2567 (35%)
Party Free Only				
(−) Party	1961 (27%)	1846 (26%)	1774 (26%)	1451 (22%)
(+) Party	2082 (29%)	1324 (18%)	2059 (31%)	1443 (21%)

 Each observation is a roll call vote, and the table categorizes these votes based on the signs of the Party and Ideal Point coefficients in the vote-specific regressions that classify votes as party calls. The Party variable is an indicator for Republican and is positively correlated with ideal points.

Appendix B: Summary Statistics

Here we give descriptions and report summary tables of the variables used in our paper. Members are grouped either as Democrats or Republicans, with independents being grouped with the party they caucus with in each chamber. The data are constructed with observations for members in each Congress they were present in. Values are according to member status in each Congress. Members who switched parties have one observation per party membership. In each chamber, *Majority* is an indicator variable for if a member's party is in the majority during a Congress, which is used to divide results and summary statistics.[1]

The bulk of the data were provided by the Legislative Effectiveness Project (Volden and Wiseman, 2014) or constructed from those data, with a few exceptions. Keith Poole furnished the roll call data. Committee data for all Senate terms and the 110th-112th in the House are from Charles Stewart's Congressional data page, with committee value ranks based on Groseclose and Stewart (1998). Committee data from the 93rd-109th House come from the replication data for MV. House elections data were provided to us by Gary Jacobson, and Senate elections data come from Dave Leip's U.S. Election Atlas. Gingrich Senators were identified based on Theriault (2013).

Party-Free Ideal Point is a member's ideal point, estimated with the binIRT function from the R package emIRT using only party-free votes, mean-centered at zero, scaled to have unit standard deviation, and oriented so that Democrats' values are on average lower (i.e., further left) than Republicans'. *Ideological Extremism* is simply the *Party Free Ideal Point* value for Republicans and sign-reversed for Democrats, so that higher numbers represent more extreme members for both parties. *Responsiveness* to party calls is the percentage of party calls on which a member voted with a majority of their party; *Baseline Rate* of voting with the party is that percentage for party-free votes.

---

[1] Each party held the majority for a portion of the 107th Senate, with Democrats in control for most of the term. Therefore, for the purposes of analyses, Democrats were coded as the majority of this term. This decision does not meaningfully affect the inferences in the paper.

Up for Reelection is a Senate-specific variable, representing whether a member's election falls during a Congress. *Vote Share* is calculated by the member's share of the vote relative to their nearest opponent.[2] *Presidential Vote Share* in each chamber is an indication of Democrat or Republican (depending on who the member caucused with) presidential candidate 2-party vote share in the previous election based on the previous presidential election. *Party Leader* is an indicator for if a member is in one of the positions identified as the congressional leadership (other than committee positions) in the *Almanac of American Politics* for a particular Congress. *Committee Chair* is an indicator for whether the member held such a position in that Congress. *Power Committee* represents a member being on one of the top four ranked committees. *Best Committee* takes a value based on the highest ranked committee a member was on with ranks reversed so that higher means better, i.e., values range from zero (member not on a committee) to the number of committees in the chamber (member served on the highest ranked committee). *Female* is an indicator variable for female legislators. *African American* is an indicator for African American legislators. *Latino* is an indicator for Hispanic and Latino legislators. *South* is an indicator for if a member represents a state or district from 13-state South. *Seniority* is a count of consecutive terms a member has served. *Freshman* is an indicator variable for the first Congress of a member previously not in Congress.

---

[2]In the House, we report above or below average centered at zero since unchallenged runs were coded as missing, to avoid selecting values for these. This decision had no impact on results.

Table A3: Senate Summary Statistics

Variable	Mean	SD	Min	Max
Responsiveness	85.5	11.4	8.8	100
Party Free Ideal Point	0.00	1.00	-3.21	3.38
Ideological Extremism	0.69	0.72	-1.62	3.38
Baseline Rate	82.0	8.2	45.1	100
Up for Reelection	0.29	0.45	0	1
Vote Share	61.2	9.9	50.0	100
Pres. Vote Share	52.1	9.7	20.1	78.0
Party Leader	0.10	0.30	0	1
Committee Chair	0.18	0.39	0	1
Power Committee	0.73	0.45	0	1
Best Committee	12.3	2.7	0	15
Female	0.07	0.25	0	1
African American	< 0.01	0.06	0	1
Latino	0.01	0.09	0	1
South	0.26	0.44	0	1
Seniority	6.25	4.62	1	26
Freshman	0.11	0.32	0	1

Num. Obs. $= 1,991$.

Table A4: House Summary Statistics

Variable	Mean	SD	Min	Max
Responsiveness	85.8	11.5	8.0	100
Party Free Ideal Point	0.00	1.00	−4.05	9.35
Ideological Extremism	0.60	0.80	−4.31	9.35
Baseline Rate	87.0	7.5	0	100
Vote Share	67.4	11.8	50	100
Pres. Vote Share	56.6	12.4	16.3	96.1
Party Leader	0.04	0.19	0	1
Committee Chair	0.05	0.22	0	1
Power Committee	0.25	0.44	0	1
Best Committee	13.8	6.4	0	22
Female	0.09	0.29	0	1
African American	0.06	0.24	0	1
Latino	0.03	0.18	0	1
South	0.30	0.46	0	1
Seniority	5.33	4.05	1	29
Freshman	0.16	0.36	0	1

Num. Obs. $= 8,540$.

Appendix C: Regression Models of Responsiveness

In this appendix, we present results from regression models in the House and Senate, which model *Responsiveness* to party calls separately by party and majority status. Table A5 presents results for the House, and Table A6 those for the Senate.

Three sets of results are clear from these models. First, in keeping with the theory and evidence in MV, we expected that members with higher *Ideological Extremism* would also have higher levels of *Responsiveness*. Indeed, even with the amendments to the classification algorithm described in Supplemental Appendix A, we see similar evidence to this effect across all subgroups in the House (first row of Table A5). We see similar evidence from the Senate (first row of Table A6), and, moreover, the magnitude of these coefficients is largely consistent across subgroup and chamber.

Second, one of the benefits of replicating MV's findings in the Senate is that there is variation in whether members were up for reelection. We expected that reelection would make members less responsive to the call of the party as they work to pivot to their districts when approaching reelection. The results appear in the third row of Table A6. We find first that the sign is in the expected direction and similar magnitude (about one percentage point) for all subgroups. We also find that the coefficient achieves statistical significance for all subgroups.

Table A5: Responsiveness to Party Calls in the U.S. House, 1973-2012

	All	Democrats	Republicans	Majority	Minority
Ideological Extremism	7.75***	8.30***	5.87***	6.56***	8.73***
	(1.26)	(0.89)	(1.70)	(1.44)	(1.17)
Baseline Rate	0.57***	0.63***	0.41*	0.51**	0.63***
	(0.12)	(0.09)	(0.19)	(0.16)	(0.08)
Vote Share	−0.01	−0.05	0.02	−0.13***	−0.05
	(0.03)	(0.03)	(0.04)	(0.04)	(0.04)
Pres Vote Share	0.03	0.10	−0.10	0.21*	0.16*
	(0.08)	(0.06)	(0.10)	(0.09)	(0.08)
Party Leader	1.80**	1.96**	2.75**	2.60***	1.80*
	(0.56)	(0.73)	(0.99)	(0.56)	(0.81)
Committee Chair	4.98***	2.49**	9.72***	1.85***	
	(0.95)	(0.92)	(2.02)	(0.56)	
Power Committee	2.76***	1.83***	2.93**	3.00***	1.07
	(0.76)	(0.44)	(0.96)	(0.87)	(0.82)
Best Committee	−0.17	−0.04	−0.24	−0.18	−0.17
	(0.10)	(0.05)	(0.13)	(0.11)	(0.11)
Female	1.17	0.56	−0.08	−0.02	2.17**
	(0.63)	(0.53)	(1.50)	(0.66)	(0.77)
African American	1.89	−0.47	5.11***	−2.81	3.13
	(1.37)	(1.08)	(1.31)	(1.77)	(1.77)
Latino	3.16**	1.76	1.65	2.90**	2.93
	(1.19)	(1.08)	(1.60)	(0.94)	(1.52)
South	−0.89	−2.47**	3.58***	−1.77**	−0.53
	(0.54)	(0.85)	(0.77)	(0.59)	(0.89)
Seniority	−0.05	0.05	−0.34*	0.03	0.01
	(0.06)	(0.06)	(0.14)	(0.07)	(0.10)
Freshman	0.79	−0.07	1.20	0.22	−0.08
	(0.67)	(0.53)	(1.01)	(0.51)	(0.55)
Intercept	31.74**	25.13**	52.00*	38.83*	17.11*
	(11.79)	(8.49)	(20.35)	(15.38)	(8.60)
R^2	0.46	0.63	0.30	0.57	0.47
Adj. R^2	0.46	0.63	0.30	0.57	0.47
Num. obs.	8540	4743	3797	4897	3643
RMSE	8.44	7.36	8.87	7.50	8.04

Results are produced by OLS regressions for all members for the entire period in the first column, with additional analyses for all Democrats and Republicans as well as all members of the Majority and Minority party in Congresses 93-112 in the House of Representatives. Details on the variables are provided in Appendix B. Standard errors are clustered by Congress and by member. ***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

Table A6: Responsiveness to Party Calls in the U.S. Senate, 1973-2012

	All	Democrats	Republicans	Majority	Minority
Ideological Extremism	6.23***	3.12**	7.80***	4.80***	8.00***
	(0.83)	(1.17)	(1.02)	(0.99)	(0.95)
Baseline Rate	0.74***	0.76***	0.74***	0.70***	0.72***
	(0.07)	(0.09)	(0.08)	(0.07)	(0.09)
Up For Reelection	−0.95***	−0.73**	−1.39**	−1.08**	−0.90*
	(0.19)	(0.23)	(0.48)	(0.33)	(0.44)
Vote Share	0.03	−0.06*	0.15**	−0.01	0.07
	(0.03)	(0.02)	(0.05)	(0.03)	(0.05)
Pres. Vote Share	0.10	0.24***	−0.14	0.18**	0.03
	(0.05)	(0.05)	(0.10)	(0.07)	(0.12)
Party Leader	1.63*	2.27*	0.91	1.56*	1.84
	(0.72)	(1.04)	(0.78)	(0.64)	(1.08)
Committee Chair	2.10**	0.83	3.69*	0.19	
	(0.79)	(1.27)	(1.49)	(0.65)	
Power Committee	−0.67	−0.80	−0.37	−0.05	−1.41
	(0.72)	(0.81)	(1.33)	(0.87)	(1.19)
Best Committee	0.16	0.22	0.02	0.02	0.37
	(0.14)	(0.16)	(0.25)	(0.16)	(0.22)
Female	2.03*	1.66*	0.42	0.72	3.48*
	(0.89)	(0.74)	(2.29)	(0.65)	(1.74)
African American	−4.69	−1.00	−10.99***	1.26	−5.01*
	(2.46)	(2.44)	(1.89)	(1.10)	(1.95)
Latino	5.65*	1.75	7.19	4.67	5.98
	(2.52)	(1.23)	(4.43)	(3.19)	(3.44)
South	0.60	−1.68	0.85	−0.11	1.21
	(0.70)	(0.95)	(1.21)	(0.72)	(1.04)
Seniority	0.01	0.05	−0.02	0.06	0.13
	(0.07)	(0.11)	(0.13)	(0.09)	(0.10)
Freshman	0.80	0.68	0.35	0.38	0.93
	(0.56)	(0.68)	(0.73)	(0.66)	(1.06)
Intercept	11.89	9.61	18.42*	16.90*	8.99
	(6.91)	(7.59)	(7.20)	(7.32)	(7.59)
R^2	0.63	0.69	0.64	0.68	0.62
Adj. R^2	0.63	0.68	0.64	0.67	0.61
Num. obs.	1991	1041	950	1099	892
RMSE	6.97	6.12	7.24	5.91	7.68

Results are produced by OLS regressions for all members for the entire period in the first column, with additional analyses for all Democrats and Republicans as well as all members of the Majority and Minority party in Congresses 93-112 in the Senate. Details on the variables are provided in Appendix B. Standard errors are clustered by Congress and by Senator. ***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

Appendix D: Senate Reelection Fixed Effects Models

To better test the role of reelection, we use same-state Senators as a natural pairing. Table A7 presents the results of fixed effects regression models which were summarized in Figure 2 in the main text. In both the figure and the table, the only observations included are those same-state pairs in which (only) one member is up for reelection. The first two models include no control variables beyond the fixed effects, while the latter two also adjust for relevant control variables including lagged values of *Responsiveness* to party calls, *Ideological Extremism*, and *Baseline Rate* of voting with the party.

Across both sets of findings in the table, we see Senators up for reelection being significantly less responsive to party calls than are those who are not up for reelection. Moreover, on the party-free votes, there is no significant difference across same-state Senators. Lacking a party call on such votes, those up for reelection are not placed in a difficult position of choosing between the party and their constituents.

Table A7: Senate Fixed Effects Models

	Responsiveness	Baseline Rate	Responsiveness	Baseline Rate
Up For Reelection	−1.62*	−0.08	−1.34*	0.33
	(0.63)	(0.61)	(0.60)	(0.47)
Lag Responsiveness			0.31	0.06
			(0.19)	(0.12)
Lag Ideological Extremism			4.72*	1.27
			(1.86)	(1.09)
Lag Baseline Rate			0.37*	0.56***
			(0.16)	(0.09)
Republican			0.67	−0.34
			(1.53)	(2.02)
Majority			4.49*	1.69
			(1.97)	(2.08)
Vote Share			−0.00	0.00
			(0.06)	(0.03)
Pres. Vote Share			0.01	−0.04
(oriented by Senator's party)			(0.11)	(0.08)
Party Leader			0.86	0.90
			(0.65)	(1.09)
Committee Chair			−0.97	0.68
			(0.80)	(1.21)
Power Committee			0.51	1.10
			(1.30)	(0.99)
Best Committee			−0.02	−0.11
			(0.16)	(0.23)
Female			−0.09	−0.13
			(0.58)	(1.54)
African American			0.66	−2.79
			(2.46)	(2.83)
Latino			−2.88	1.76
			(4.92)	(6.99)
Seniority			0.09	0.00
			(0.13)	(0.08)
Num. obs.	1130	1130	952	952
R^2 (full model)	0.71	0.65	0.93	0.85
R^2 (proj model)	0.02	0.00	0.72	0.52
Adj. R^2 (full model)	0.41	0.30	0.84	0.66
Adj. R^2 (proj model)	-0.97	-1.00	0.36	-0.10

The table presents fixed effects regressions of *Responsiveness* to party calls and *Baseline Rate* of voting with party for the Senate, with fixed effects for Same State-Congress pairs, including 565 fixed effects for the models in the first two columns and 476 for the latter two models. Standard errors are clustered by legislator and Congress. ***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

Appendix E: Comparing Party Unity Scores Responsiveness to Party Calls

Responsivness to Party Calls bears some similarity to the more common *Party Unity* score. For example, Carson et al. (2010) define Party Unity as the fraction of the time legislators vote with their party on the subset of "party votes," on which a majority of Democrats voted against a majority of Republicans. In this appendix, we first compare party votes with party calls, then compare Party Unity scores with Responsiveness to Party Calls, and finally report models of Party Unity scores that mirror the models of Responsiveness from the main paper. Ultimately, we conclude that party calls and Responsiveness scores are better measures of party influence than Party Unity scores because the algorithm used to identify party calls is purpose-built to separate party influence from ideology.

We first identified party votes and calculated rates of voting with the party on this subset of roll call votes, as well as all votes. There is relatively high similarity between this coding scheme and that for party calls: the fraction of votes that were coded either as (1) both non-party calls and non-party votes, or (2) both party calls and party votes ranged from 59% to 91%, with an average of 78%.

Next, we created Party Unity scores, which we defined as the fraction of votes cast by a legislator on these party votes. These scores are highly correlated with Responsiveness, with correlations ranging from 0.65 to 0.98 for the House, and from 0.69 to 0.97 for the Senate. The correlations tend to increase over time, significantly so in the Senate, with a weaker relationship in the House, based on robust linear models). There is also a sharp increase in volatility in these correlations, as the smallest levels also occur in recent years.

Finally, we estimated models of party unity to parallel the models of Responsiveness in the paper. To substitute for Baseline Rates of Party Support, we created (for lack of a better term) *Non-Party-Vote Unity* scores, which we defined as the rate of support for the party on votes for which the majorities of the two parties did **not** disagree. We then fit models analogous to those from Table 1 in the main paper, substituting in Party Unity scores for Responsiveness as the dependent variable, and substituting in Non-Party-Vote Unity scores for Baseline Rate. The results appear

in Table A8.

Two general findings emerged from Table A8. First, the hypothesis tests presented in the paper for Ideological Extremism yield similar inferences in these models of Party Unity scores. More importantly, a set of emergent differences between these sets of models suggest that responsiveness scores are preferable to Party Unity scores. The relationship between Party Unity scores and Ideological Extremism was an order of magnitude larger than the relationship between responsiveness and ideological extremism. For example, the model of Responsiveness for the House (first column of Table 1 from the paper) has an overall coefficient of 7.75 on Ideological Extremism; the corresponding coefficient from the model of Party Unity scores is 13.1. These coefficients are even further inflated for the Senate: the coefficient from the Senate models in Table 1 are about 6.3, whereas both Party Unity analogues of the Senate models in Table A8 have coefficients above 20.

Furthermore, analogous models of Party Unity scores that mimic the senate-pair design yield a similar finding. Table A9 mimics the models in Table A7. Again, the coefficients on whether a senator is Up for Reelection for Party Unity are twice the magnitude of those for Responsiveness. And the party-unity models also fail our placebo test. The coefficients on Up for Reelection are positive and significant ($p < 0.01$). Thus, models of Party Unity scores yield both implausibly large coefficient magnitudes and a failed placebo test.

Based on these analyses, we make two main conclusions. First, Party Unity scores and Responsiveness to PartyCcalls both capture much of the same "signal." Second, however, Party Unity scores suffer from their underlying blunt categorization rule, which was precisely the impetus for the algorithm developed in Minozzi and Volden (2013). Despite their high correlation, the inferences suggested by models of Party Unity are implausibly large. Perhaps more importantly, they lead to a failed placebo test. This failed test resonates strongly with the modal scholarly interpretation of Party Unity scores as "contaminated" by endogeneity and ideology, an interpretation which led Carson et al. (2010), for example, to rely on an instrumental variables strategy to examine the effects of party voting.

Table A8: Models of *Party Unity Scores*, 1973-2012

	House	Senate	Senate
Ideological Extremism	13.11***	20.61***	20.59***
	(3.11)	(1.72)	(1.73)
Non-Party-Vote Unity	0.47***	0.68***	0.68***
	(0.12)	(0.07)	(0.07)
Up For Reelection			−0.32
			(0.26)
Vote Share	−0.09**	−0.01	−0.01
	(0.03)	(0.03)	(0.03)
Pres Vote Share	0.18	0.08	0.08
	(0.10)	(0.05)	(0.05)
Party Leader	3.18***	2.26**	2.26**
	(0.93)	(0.77)	(0.77)
Committee Chair	4.96***	3.23***	3.23***
	(0.88)	(0.71)	(0.71)
Power Committee	2.77***	0.66	0.66
	(0.63)	(0.77)	(0.77)
Best Committee	−0.07	−0.10	−0.10
	(0.09)	(0.16)	(0.16)
Female	1.15	0.31	0.30
	(0.85)	(1.03)	(1.03)
African American	0.41	−10.79	−10.83
	(1.12)	(5.75)	(5.74)
Latino	3.17*	2.95	2.96
	(1.25)	(2.78)	(2.78)
South	−1.64*	−0.83	−0.83
	(0.76)	(0.82)	(0.82)
Seniority	−0.13	−0.10	−0.10
	(0.08)	(0.07)	(0.07)
Freshman	0.20	0.95	0.86
	(0.77)	(0.77)	(0.74)
Intercept	32.66**	9.21	9.32
	(10.75)	(6.49)	(6.49)
R^2	0.50	0.75	0.75
Adj. R^2	0.49	0.75	0.75
Num. obs.	8529	1977	1977
RMSE	10.73	7.78	7.79

The table presents linear models of *Party Unity* scores, from the 93rd-112th Congresses (1973-2012). Standard errors are clustered by Congress and member.

***$p < 0.001$, **$p < 0.01$, *$p < 0.05$

Table A9: Fixed Effects Models of Party Unity Scores

	Responsiveness	Baseline Rate	Responsiveness	Baseline Rate
Up For Reelection	-2.56^{***}	1.19^{*}	-2.30^{***}	1.47^{**}
	(0.69)	(0.54)	(0.69)	(0.45)
Lag Responsiveness To Party Calls			0.28	-0.07
			(0.20)	(0.09)
Lag Ideological Extremism			11.85^{***}	-6.34^{***}
			(2.02)	(1.42)
Lag Baseline Rate			0.44^{**}	0.61^{***}
			(0.16)	(0.09)
CaucusRepublican			0.91	-0.02
			(1.88)	(1.20)
Majority			4.04	2.05
			(2.21)	(1.63)
Vote Share			0.00	-0.01
			(0.06)	(0.03)
Pres Vote Share			-0.03	-0.01
			(0.10)	(0.06)
Party Leader			1.04	0.82
			(1.36)	(1.23)
Committee Chair			-0.59	0.74
			(1.67)	(1.00)
Power Committee			1.21	1.08
			(1.42)	(1.65)
Best Committee			-0.08	-0.11
			(0.24)	(0.31)
Female			0.54	0.82
			(1.77)	(1.71)
African American			-7.21	3.50
			(9.19)	(4.12)
Latino			-5.47	6.41
			(7.72)	(7.48)
Seniority			0.07	0.05
			(0.15)	(0.11)
Num. obs.	1122	1120	946	944
R^2 (full model)	0.67	0.69	0.94	0.86
R^2 (proj model)	0.02	0.02	0.79	0.51
Adj. R^2 (full model)	0.34	0.38	0.85	0.68
Adj. R^2 (proj model)	-0.98	-0.99	0.52	-0.13

The table presents fixed effects regressions of *Party Unity* to party calls and *Non-Party-Vote Unity* scores for the Senate, with fixed effects for Same State-Congress pairs, including 561 fixed effects for the models in the first two columns and 473 for the latter two models. Standard errors are clustered by legislator and Congress. $^{***}p < 0.001$, $^{**}p < 0.01$, $^{*}p < 0.05$

References

Carson, Jamie L., Gregory Koger, Matthew J. Lebo, and Everett Young. 2010. "The Electoral Costs of Party Loyalty." *American Journal of Political Science* 54(3): 598–616.

Groseclose, Tim, and Charles Stewart, III. 1998. "The Value of Committee Seats in the House, 1947-91." *American Journal of Political Science* 42(2): 453–474.

Imai, Kosuke, James Lo, and Jonathan Olmsted. 2016. "Fast Estimation of Ideal Points with Massive Data." *American Political Science Review* 110(4): 631–656.

Jackman, Simon. 2015. *pscl: Classes and Methods for R Developed in the Political Science Computational Laboratory, Stanford University.* Stanford, California: Department of Political Science, Stanford University.

Minozzi, William, and Craig Volden. 2013. "Who Heeds the Party Call in Congress?" *Journal of Politics* 75(3): 787–802.

Theriault, Sean M. 2013. *The Gingrich Senators.* New York: Oxford University Press.

Volden, Craig, and Alan E. Wiseman. 2014. *Legislative Effectiveness in the United States Congress: The Lawmakers.* Cambridge: Cambridge University Press.

Zorn, Christopher. 2005. "A Solution to Separation in Binary Response Models." *Political Analysis* 13(2): 157–170.