

Appendix for “Two-Stage Elections, Strategic Candidates, and Campaign Agendas”

[NOTE to Editor/Reviewers: We are open to publishing this Appendix as an online supplement. We are also open to considering moving some of tables and/or figures we currently include in the body of the paper into this Appendix if that is desired. We present the entire Appendix here to assist in the review process.]

This appendix includes descriptive information and supplemental results of analyses performed for the paper “Two-Stage Elections, Strategic Candidates, and Campaign Agendas.” All data and code necessary to produce these results as well as the results from the main paper are available at [to be determined by the Editor and Authors]. This appendix includes:

- Table 1 reports the 56 specific contests included in this study.
- Table 2 reports basic descriptive statistics for the key variables.
- Table 3 presents the correlation of the residuals from each of the equations of our seemingly unrelated regression model reported in Table 2 of the paper.
- Table 4 presents the correlations of the residuals produced by the equations of the model we reported in Table 3 of the paper.
- Tables 5 through 15 present several robustness checks of the primary results from the paper.
- Figures 1, 2, and 3 contain time series plots of every winning and losing primary candidates’ party-owned issue agendas we use in our analyses. We plot races with a single contested primary in Figures 1 and 2 and races with two contested primaries in Figure 3.

Table 1: Election Contests Included in These Data

One contested primary		Two contested primaries	
Senate elections	Gubernatorial elections	Senate elections	Gubernatorial elections
AK (2008)	CA (2002)	FL (2004)	AL (2002)
GA (2008)	FL (2002)	NJ (2000)	AZ (2002)
KY (2008)	GA (2002)		IL (2002)
MN (2000)	HI (2002)		NC (2000)
MN (2008)	IA (2002)		OR (2002)
NC (2002)	IN (2004)		RI (2002)
NE (2000)	IN (2008)		
NE (2008)	KS (2002)		
NH (2002)	MA (2002)		
NM (2000)	MI (2002)		
NM (2008)	MN (2002)		
NY (2000)	MO (2004)		
OH (2000)	MO (2008)		
PA (2000)	MS (2003)		
PA (2004)	NC (2004)		
RI (2000)	NH (2002)		
SC (2004)	NY (2002)		
SD (2008)	OK (2002)		
WA (2000)	PA (2002)		
WI (2004)	SC (2002)		
	TN (2002)		
	TX (2002)		
	UT (2004)		
	WA (2004)		
	WI (2002)		
	WV (2000)		
	WV (2004)		

Years are reported in parentheses.

Table 2: Summary Statistics: Number of Advertisements Mentioning Party-Owned Issues by Candidate Partisanship and Contest Type

	One contested primary			
	Mean	Standard deviation	Minimum	Maximum
Contested primary winners				
Democratic issues	101.7	213.6	0	1,729
Republican issues	87.3	170.4	0	1,158
Contested primary losers				
Democratic issues	86.2	208.8	0	1,748
Republican issues	59.7	131.5	0	1,148
Uncontested primary winners				
Democratic issues	54.7	127.4	0	813
Republican issues	54.4	151.1	0	1,033
	Two contested primaries			
	Mean	Standard deviation	Minimum	Maximum
Democratic candidates				
Winners' Democratic owned issues	115.9	229.0	0	1,729
Losers' Democratic owned issues	66.4	195.0	0	1,748
Winners' Republican owned issues	71.4	172.0	0	1,111
Losers' Republican owned issues	22.2	81.9	0	778
Republican candidates				
Winners' Republican owned issues	68.6	146.4	0	1,198
Losers' Republican owned issues	49.1	130.6	0	1,497
Winners' Democratic owned issues	48.2	107.3	0	1,118
Losers' Democratic owned issues	25.9	84.5	0	974

Note: Summary statistics were calculated at the weekly level.

Table 3: Correlation of Residuals: Single Contested Primaries

	Democratic issues			Republican issues		
	Δ Competitive primary winner	Δ Competitive primary losers	Δ Noncompetitive primary winner	Δ Competitive primary winner	Δ Competitive primary losers	Δ Noncompetitive primary winner
Democratic owned issues						
Δ Competitive primary winner	1.0000					
Δ Competitive primary losers	-0.3796	1.0000				
Δ Noncompetitive primary winner	0.0127	-0.1330	1.0000			
Republican owned issues						
Δ Competitive primary winner	0.1169	0.2005	-0.0328	1.0000		
Δ Competitive primary losers	-0.0338	0.2021	0.0850	-0.2190	1.0000	
Δ Noncompetitive primary winner	0.0517	-0.0491	0.2987	-0.1057	-0.1795	1.0000
<i>Breusch-Pagan test of independence</i>						
$\chi^2(15) = 262.02$						
$p - value < 0.01$						

Note: The cells are correlations of the residuals between the equations reported in Table 2 of the paper.

Table 4: Correlation of Residuals: Two Contested Primaries

	Democratic issues				Republican issues			
	Democrats		Republicans		Democrats		Republicans	
	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers
Democratic owned issues								
Δ Winning Democrats	1.0000							
Δ Losing Democrats	-0.4194	1.0000						
Δ Winning Republicans	-0.1961	-0.1417	1.0000					
Δ Losing Republicans	-0.1195	-0.1854	-0.1429	1.0000				
Republican owned issues								
Δ Winning Democrats	0.5112	-0.0438	-0.1276	0.0315	1.0000			
Δ Losing Democrats	-0.2217	0.2361	-0.0313	0.1365	-0.2976	1.0000		
Δ Winning Republicans	-0.0385	0.1496	0.2712	-0.1613	-0.0824	-0.0154	1.0000	
Δ Losing Republicans	0.0957	0.0183	-0.1181	0.0715	-0.1194	-0.0703	-0.4736	1.0000
<i>Breusch-Pagan test of independence</i>								
$\chi^2(28) = 124.75$								
$p - value < 0.01$								

Note: The cells are correlations of the residuals between the equations reported in Table 3 of the paper.

Table 5: Candidate Response to their Primary and General Election Opponents in Elections in which a Single Primary is Contested: No Incumbent Candidates

	Democratic issues			Republican issues		
	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners
Error correction rate (Y_{t-1})	-0.673* (0.055)	-0.421* (0.044)	-0.226* (0.040)	-0.361* (0.043)	-0.477* (0.050)	-0.192* (0.037)
Short-term effects						
Δ Contested primary winners' issue agenda	0.562* (0.034)	0.950* (0.058)	0.178* (0.034)	0.478* (0.071)	0.276* (0.042)	0.132* (0.033)
Δ Contested primary losers' issue agendas	0.496* (0.093)	-0.275* (0.123)	-0.059* (0.027)	0.395* (0.095)	-0.163* (0.075)	-0.101* (0.044)
Δ Uncontested primary winners' issue agenda						
Long-term effects						
Contested primary winners' issue agenda $_{t-1}$	0.326* (0.036)	0.638* (0.076)	0.160* (0.039)	0.276* (0.074)	0.114* (0.036)	0.075* (0.028)
Contested primary losers' issue agendas $_{t-1}$	0.232* (0.068)	-0.266* (0.088)	-0.075* (0.023)	0.112 (0.064)	-0.080 (0.049)	-0.085 (0.045)
Uncontested primary winners' issue agenda $_{t-1}$						
Long run multipliers						
Contested primary winners' issue agenda	0.485* (0.027)	1.517* (0.060)	0.707* (0.004)	0.764* (0.074)	0.239* (0.035)	0.389* (0.029)
Contested primary losers' issue agenda	0.344* (0.065)	-0.633* (0.085)	-0.332* (0.023)	0.309* (0.063)	-0.169* (0.048)	-0.444* (0.044)
Uncontested primary winners' issue agenda						
Democratic primary	12.195 (14.751)	1.164 (19.437)	10.513 (8.937)	12.292 (16.926)	-19.353 (12.841)	8.289 (9.925)
Gubernatorial election	1.687 (15.905)	9.261 (20.957)	7.890 (9.614)	19.824 (18.875)	0.918 (14.417)	12.003 (11.076)
Year: 2002	33.028 (31.201)	-34.778 (41.141)	-24.779 (18.847)	24.507 (36.981)	-17.788 (28.153)	-18.598 (21.667)
Year: 2003	—	—	—	—	—	—
Year: 2004	39.406 (32.898)	-48.154 (43.346)	-32.044 (19.845)	32.637 (38.542)	-9.944 (29.367)	-18.452 (22.593)
Year: 2008	74.548* (34.373)	-79.612 (45.325)	-34.481 (20.823)	13.681 (41.754)	3.152 (31.840)	34.174 (24.440)
Intercept	-34.120 (27.163)	38.458 (35.793)	21.577 (18.614)	-28.765 (32.728)	44.132 (24.809)	10.653 (21.173)
N	277					
BIC	19,725.13					

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.

* = $p \leq .05$ (two tailed)

Table 6: Candidate Response to their Primary and General Election Opponents in Elections in which a Single Primary is Contested: Races with Incumbents

	Democratic issues			Republican issues		
	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners
Error correction rate (Y_{t-1})	-0.351* (0.042)	-0.363* (0.044)	-0.412* (0.043)	-0.554* (0.045)	-0.462* (0.047)	-0.364* (0.042)
Short-term effects						
Δ Contested primary winners' issue agenda	0.889* (0.067)	0.455* (0.034)	-0.130* (0.032)	0.492* (0.057)	0.393* (0.045)	0.115* (0.050)
Δ Contested primary losers' issue agendas	-0.363* (0.092)	0.543* (0.061)	0.367* (0.043)	0.123* (0.060)	0.496* (0.048)	0.525* (0.050)
Δ Uncontested primary winners' issue agenda						
Long-term effects						
Contested primary winners' issue agenda $_{t-1}$	0.226* (0.069)	0.157* (0.031)	-0.048 (0.026)	0.288* (0.059)	0.306* (0.045)	0.028 (0.048)
Contested primary losers' issue agenda $_{t-1}$	-0.177* (0.083)	0.283* (0.057)	0.085* (0.041)	0.072 (0.050)	0.203* (0.043)	0.146* (0.054)
Uncontested primary winners' issue agenda $_{t-1}$						
Long run multipliers						
Contested primary winners' issue agenda	0.642* (0.067)	0.434* (0.033)	-0.117* (0.026)	0.520* (0.054)	0.662* (0.045)	0.077 (0.048)
Contested primary losers' issue agenda	-0.503* (0.082)	0.780* (0.062)	-0.332* (0.023)	0.130* (0.051)	0.440* (0.042)	0.401* (0.050)
Uncontested primary winners' issue agenda						
Democratic primary	64.475* (30.385)	-5.447 (21.959)	29.223 (18.507)	26.672 (19.562)	-29.662 (17.532)	-4.296 (18.150)
Gubernatorial election	-20.271 (32.574)	26.709 (23.435)	-4.787 (19.905)	-33.901 (22.423)	-4.850 (20.205)	43.241* (20.724)
Year: 2002	104.669* (45.376)	-78.634* (32.641)	44.535 (27.682)	54.327 (29.892)	-29.232 (26.933)	-11.475 (27.808)
Year: 2003	77.690 (66.373)	-52.769 (47.740)	-25.117 (40.496)	80.400 (44.734)	-48.037 (40.265)	-31.384 (41.564)
Year: 2004	72.940 (44.429)	-43.355 (31.946)	-18.359 (27.096)	91.602* (30.148)	-53.431 (27.279)	-8.564 (28.231)
Year: 2008	53.488 (34.087)	-44.971 (24.512)	41.913* (20.684)	71.870* (24.343)	-72.378* (21.806)	49.798* (22.547)
Intercept	-45.521 (36.368)	20.728 (26.151)	2.315 (13.765)	-31.239 (24.447)	46.514* (21.841)	-9.167 (13.667)
N	303					
BIC	22,053.4					

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.
* = $p \leq .05$ (two tailed)

Table 7: Candidate Response to their Primary and General Election Opponents in Elections in which a Single Primary is Contested: States with Open Primaries

	Democratic issues			Republican issues		
	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners
Error correction rate (Y_{t-1})	-0.354* (0.046)	-0.408* (0.051)	-0.305* (0.045)	-0.532* (0.050)	-0.400* (0.050)	-0.301* (0.045)
Short-term effects						
Δ Contested primary winners' issue agenda		0.410* (0.036)	0.012 (0.036)		0.134* (0.044)	0.180* (0.045)
Δ Contested primary losers' issue agendas	0.917* (0.080)		0.033 (0.054)	0.260* (0.084)		0.300* (0.062)
Δ Uncontested primary winners' issue agenda	0.035 (0.107)	0.048 (0.070)		0.321* (0.081)	0.280* (0.059)	
Long-term effects						
Contested primary winners' issue agenda $_{t-1}$		0.113* (0.033)	0.008 (0.030)		0.085* (0.043)	0.107* (0.044)
Contested primary losers' issue agendas $_{t-1}$	0.291* (0.085)		-0.059 (0.050)	0.220* (0.076)		-0.028 (0.057)
Uncontested primary winners' issue agenda $_{t-1}$	-0.051 (0.083)	0.050 (0.055)		0.161* (0.065)	0.042 (0.047)	
Long run multipliers						
Contested primary winners' issue agenda		0.277* (0.034)	0.025 (0.030)		0.213* (0.042)	0.357* (0.044)
Contested primary losers' issue agenda	0.823* (0.085)		-0.194* (0.051)	0.414* (0.075)		-0.093 (0.057)
Uncontested primary winners' issue agenda	-0.145* (0.083)	0.123* (0.055)		0.302* (0.064)	0.106* (0.048)	
Democratic primary	11.184 (28.594)	41.108* (19.122)	22.516 (16.769)	15.583 (22.052)	1.296 (15.689)	17.670 (16.196)
Gubernatorial election	-12.310 (33.031)	41.839 (22.177)	-2.442 (19.341)	-17.983 (28.737)	6.264 (20.445)	46.254* (20.939)
Year: 2002	50.745 (51.366)	-34.889 (34.725)	40.048 (29.960)	41.851 (44.203)	2.266 (31.466)	-38.948 (32.472)
Year: 2003	22.496 (67.651)	-22.014 (45.796)	-21.776 (39.534)	43.418 (60.117)	-13.966 (42.756)	-65.122 (44.047)
Year: 2004	1.156 (45.522)	15.305 (30.809)	-5.125 (26.619)	60.252 (40.160)	5.598 (28.664)	-28.283 (29.619)
Year: 2008	49.160 (47.049)	-21.236 (31.842)	37.639 (27.444)	60.057 (43.024)	-7.423 (30.824)	49.820 (31.620)
Intercept	1.796 (42.159)	-23.659 (28.484)	1.442 (19.238)	-10.267 (36.089)	5.606 (25.649)	-1.579 (21.010)
N			252			
BIC			18,857.86			

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.
* = $p \leq .05$ (two tailed)

Table 8: Candidate Response to their Primary and General Election Opponents in Elections in which a Single Primary is Contested: States with Closed Primaries

	Democratic issues			Republican issues		
	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners
Error correction rate (Y_{t-1})	-0.369* (0.042)	-0.280* (0.038)	-0.383* (0.042)	-0.304* (0.038)	-0.414* (0.050)	-0.364* (0.037)
Short-term effects						
Δ Contested primary winners' issue agenda		0.312* (0.051)	-0.033 (0.025)		0.242* (0.041)	0.010 (0.034)
Δ Contested primary losers' issue agendas	0.162* (0.036)		0.053* (0.020)	0.188* (0.054)		0.074 (0.044)
Δ Uncontested primary winners' issue agenda	-0.072 (0.081)	0.284* (0.091)		-0.020 (0.049)	0.227* (0.049)	
Long-term effects						
Contested primary winners' issue agenda $_{t-1}$		0.793* (0.052)	-0.102* (0.030)		0.607* (0.050)	0.018 (0.045)
Contested primary losers' issue agenda $_{t-1}$	0.602* (0.040)		0.209* (0.025)	0.560* (0.047)		0.283* (0.040)
Uncontested primary winners' issue agenda $_{t-1}$	-0.255* (0.090)	0.827* (0.097)		0.054 (0.063)	0.446* (0.061)	
Long run multipliers						
Contested primary winners' issue agenda		0.277* (0.034)	0.025 (0.030)		0.213* (0.042)	0.357* (0.044)
Contested primary losers' issue agenda	0.823* (0.085)		-0.194* (0.051)	0.414* (0.075)		-0.093 (0.057)
Uncontested primary winners' issue agenda	-0.145* (0.083)	0.123* (0.055)		0.302* (0.064)	0.106* (0.048)	
Democratic primary	25.239 (16.412)	-2.472 (19.010)	10.996 (10.252)	10.037 (12.026)	-18.105 (12.412)	4.622 (10.560)
Gubernatorial election	-15.635 (20.014)	20.949 (23.091)	1.046 (12.538)	3.232 (14.485)	-7.692 (15.013)	3.506 (12.790)
Year: 2002	24.602 (26.984)	-21.898 (31.178)	-0.189 (16.927)	28.288 (20.188)	-33.358 (20.888)	10.207 (17.783)
Year: 2003	—	—	—	—	—	—
Year: 2004	32.637 (30.510)	-33.522 (35.191)	-13.289 (19.065)	38.354 (22.581)	-27.431 (23.433)	-11.906 (19.901)
Year: 2008	10.962 (33.762)	-19.881 (38.986)	6.828 (21.166)	32.677 (25.478)	-44.254 (26.344)	17.710 (22.414)
Intercept	-4.159 (22.878)	1.503 (26.406)	6.410 (14.165)	-21.310 (17.760)	42.104* (18.221)	-2.313 (14.462)
N	299					
BIC	21,194.82					

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.

* = $p \leq .05$ (two tailed)

Table 9: Candidate Response to their Primary and General Election Opponents in Elections in which Both Primaries are Contested: Open Primaries

	Democratic issues				Republican issues			
	Democrats		Republicans		Democrats		Republicans	
	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers
Error correction rate (Y_{t-1})	-0.659* (0.167)	-0.451* (0.126)	-0.844* (0.196)	-0.245 (0.146)	-0.679* (0.187)	-0.852* (0.183)	-0.703* (0.166)	-0.818* (0.167)
Short-term effects								
Δ Democratic winner's issue agenda	0.677* (0.184)	0.392* (0.111)	0.643* (0.163)	0.611* (0.099)	0.551 (1.080)	0.021 (0.027)	0.474* (0.167)	-0.023 (0.283)
Δ Democratic loser's issue agenda	0.472* (0.121)	0.124 (0.110)	0.311 (0.246)	-0.205 (0.180)	0.421* (1.080)	0.076* (0.024)	3.397* (1.005)	0.948 (1.781)
Δ Republican winner's issue agenda	0.904* (0.139)	-0.176 (0.154)	-0.374 (0.232)	(0.120)	-0.012 (0.106)	0.010 (0.017)	-0.152 (0.107)	-0.356 (0.267)
Long-term effects								
Democratic winner's issue agenda $_{t-1}$	0.581* (0.159)	-0.077 (0.169)	0.691* (0.246)	0.550* (0.166)	1.294 (1.554)	-0.064* (0.032)	0.875* (0.197)	0.404 (0.350)
Democratic loser's issue agenda $_{t-1}$	0.206 (0.184)	0.414* (0.140)	-0.093 (0.213)	-0.376* (0.150)	0.165 (0.184)	0.546 (1.533)	0.546 (1.533)	-2.716 (2.487)
Republican winner's issue agenda $_{t-1}$	-0.025 (0.184)	0.301* (0.138)	-0.029 (0.230)	(0.166)	-0.026 (0.126)	0.029 (0.019)	-0.251* (0.126)	(0.300)
Republican loser's issue agenda $_{t-1}$								
Long run multipliers								
Democratic winner's issue agenda	0.882* (0.197)	-0.172 (0.183)	0.819* (0.210)	2.247* (0.332)	1.907 (1.671)	-0.075 (0.036)	1.245* (0.201)	0.494 (0.354)
Democratic loser's issue agenda	0.312* (0.163)	0.918* (0.182)	-0.110 (0.220)	-1.533 (0.307)	0.244 (0.160)	0.134* (0.029)	0.776 (1.449)	-3.319 (2.679)
Republican winner's issue agenda	-0.038 (0.186)	0.667* (0.163)	-0.034 (0.229)	(0.190)	-0.038 (0.127)	0.034 (0.021)	-0.357* (0.130)	-0.163 (0.295)
Republican loser's issue agenda								
Gubernatorial election	0.761 (28.260)	-39.662 (21.265)	54.568 (30.773)	14.308 (23.546)	17.272 (23.653)	-5.341 (3.817)	35.982 (24.140)	80.568* (37.453)
Year: 2002	—	—	—	—	—	—	—	—
Year: 2004	—	—	—	—	—	—	—	—
Intercept	—	—	—	—	—	—	—	—
BIC	2,706.83							
N	29							

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.
* = $p \leq .05$ (two tailed)

Table 10: Candidate Response to their Primary and General Election Opponents in Elections in which Both Primaries are Contested: Closed Primaries

	Democratic issues				Republican issues			
	Democrats		Republicans		Democrats		Republicans	
	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers
Error correction rate (Y_{t-1})	-0.693* (0.095)	-0.369* (0.072)	-0.380* (0.086)	-0.428* (0.099)	-0.571* (0.090)	-0.528* (0.101)	-0.406* (0.104)	-0.547* (0.094)
Short-term effects								
Δ Democratic winner's issue agenda		0.265* (0.055)	0.014 (0.043)	-0.038 (0.039)		0.336* (0.095)	-0.039 (0.095)	0.181 (0.116)
Δ Democratic loser's issue agenda	0.621* (0.147)		-0.055 (0.056)	0.135* (0.049)	0.206 (0.132)		-0.191 (0.115)	0.183 (0.144)
Δ Republican winner's issue agenda	0.542* (0.243)	-0.250 (0.130)		0.069 (0.087)	-0.152 (0.124)	-0.127 (0.120)		0.614* (0.126)
Δ Republican loser's issue agenda	-0.126 (0.325)	0.006 (0.166)	0.014 (0.124)		0.140 (0.093)	0.123 (0.091)	0.448* (0.074)	
Long-term effects								
Democratic winner's issue agenda $_{t-1}$		0.348* (0.037)	0.051 (0.035)	-0.075* (0.031)		0.436* (0.081)	-0.233* (0.084)	0.495* (0.094)
Democratic loser's issue agenda $_{t-1}$	1.481* (0.159)		-0.024 (0.078)	0.254* (0.063)	0.592* (0.109)		0.036 (0.103)	-0.055 (0.128)
Republican winner's issue agenda $_{t-1}$	0.413 (0.274)	-0.043 (0.146)		0.079 (0.095)	-0.428* (0.108)	-0.027 (0.105)		1.110* (0.080)
Republican loser's issue agenda $_{t-1}$	-0.700* (0.302)	0.648* (0.144)	0.128 (0.116)		0.428* (0.079)	0.061 (0.084)	0.692* (0.051)	
Long run multipliers								
Democratic winner's issue agenda		0.718* (0.055)	0.036 (0.042)	-0.089* (0.038)		0.638* (0.099)	-0.097 (0.096)	0.331* (0.119)
Democratic loser's issue agenda	0.897* (0.133)		-0.144* (0.055)	0.317* (0.052)	0.361* (0.125)		-0.470* (0.126)	0.334* (0.141)
Republican winner's issue agenda	0.783* (0.252)	-0.677* (0.131)		0.163* (0.091)	-0.266* (0.127)	-0.241* (0.122)		1.122* (0.113)
Republican loser's issue agenda	-0.182 (0.323)	0.016 (0.165)	0.036 (0.124)		0.247* (0.095)	0.233* (0.088)	1.105* (0.094)	
Gubernatorial election	-431.544* (92.337)	201.683* (43.800)	27.989 (34.625)	-23.003 (31.074)	-121.563* (48.964)	118.249* (41.748)	16.483 (43.134)	0.861 (53.151)
Year: 2002	4.535 (58.994)	-25.909 (26.053)	11.124 (19.847)	-19.807 (17.607)	-9.134 (29.957)	-28.286 (24.277)	-17.260 (25.142)	25.125 (30.983)
Year: 2004	-224.526* (83.129)	88.220* (37.773)	3.617 (28.702)	-22.181 (25.741)	-130.566* (50.535)	41.840 (44.626)	-47.914 (44.210)	105.408 (54.279)
Intercept	394.692* (77.613)	-151.647* (39.186)	-7.747 (30.297)	42.617 (27.035)	133.258* (41.778)	-86.986* (37.597)	-11.549 (37.990)	-18.503 (46.628)
BIC	6,900.74							
N	75							

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.
* = $p \leq .05$ (one tailed)

Table 11: Candidate Response to their Primary and General Election Opponents in Elections in which a Single Primary is Contested: Early Primaries

	Democratic issues			Republican issues		
	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners
Error correction rate (Y_{t-1})	-0.450* (0.041)	-0.451* (0.043)	-0.230* (0.033)	-0.398* (0.041)	-0.491* (0.041)	-0.339* (0.037)
Short-term effects						
Δ Contested primary winners' issue agenda		0.467* (0.032)	0.087* (0.032)		0.033 (0.035)	0.225* (0.046)
Δ Contested primary losers' issue agendas	0.847* (0.058)		0.009 (0.042)	0.072 (0.071)		0.058 (0.066)
Δ Uncontested primary winners' issue agenda	0.223* (0.079)	0.017 (0.058)		0.257* (0.053)	0.028 (0.037)	
Long-term effects						
Contested primary winners' issue agenda $_{t-1}$	0.303* (0.065)	0.251* (0.032)	0.088* (0.029)		0.056 (0.031)	0.199* (0.041)
Contested primary losers' issue agendas $_{t-1}$	0.037 (0.055)	-0.044 (0.040)	-0.059 (0.042)	0.157* (0.068)		-0.113 (0.064)
Uncontested primary winners' issue agenda $_{t-1}$				0.091* (0.043)	-0.057 (0.030)	
Long run multipliers						
Contested primary winners' issue agenda	0.673* (0.059)	0.555* (0.033)	0.382* (0.030)		0.114* (0.030)	0.588* (0.042)
Contested primary losers' issue agenda	0.081 (0.055)	-0.099* (0.040)	-0.255* (0.041)	0.394* (0.067)		-0.332* (0.062)
Uncontested primary winners' issue agenda				0.229* (0.042)	-0.115* (0.030)	
Democratic primary	26.064 (15.541)	5.439 (11.826)	21.555* (9.927)	0.620 (11.189)	-7.707 (7.916)	0.910 (10.445)
Gubernatorial election	4.002 (18.816)	15.382 (14.282)	4.650 (12.017)	12.988 (14.683)	23.260* (10.333)	18.033 (13.684)
Year: 2002	-0.212 (25.399)	-3.396 (19.330)	-4.206 (16.207)	1.042 (19.337)	-16.233 (13.675)	-9.646 (18.045)
Year: 2003	12.427 (44.960)	-26.641 (34.166)	-34.327 (28.635)	4.892 (34.464)	-47.288 (24.292)	-29.028 (32.138)
Year: 2004	-18.249 (29.856)	19.440 (22.709)	-3.800 (19.056)	56.118* (22.964)	-12.791 (16.352)	-29.275 (21.560)
Year: 2008	39.413 (27.997)	-26.995 (21.297)	-2.898 (17.892)	27.538 (22.664)	3.416 (16.056)	53.466* (21.023)
Intercept	-1.200 (21.694)	2.768 (16.494)	5.154 (11.752)	-3.277 (16.586)	23.362* (11.689)	6.345 (12.532)
BIC	26,801.18					
N	375					

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.
* = $p \leq .05$ (two tailed)

Table 12: Candidate Response to their Primary and General Election Opponents in Elections in which a Single Primary is Contested: Late Primaries

	Democratic issues			Republican issues		
	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners	Δ Contested primary winners	Δ Contested primary losers	Δ Uncontested primary winners
Error correction rate (Y_{t-1})	-0.334* (0.051)	-0.257* (0.046)	-0.531* (0.056)	-0.570* (0.056)	-0.463* (0.061)	-0.305* (0.049)
Short-term effects						
Δ Contested primary winners' issue agenda	0.575* (0.055)	0.664* (0.062)	-0.104* (0.034)	0.550* (0.066)	0.459* (0.055)	0.019 (0.042)
Δ Contested primary losers' issue agendas	-0.344* (0.122)	0.878* (0.122)	0.214* (0.031)	0.054 (0.100)	0.710* (0.082)	0.353* (0.041)
Δ Uncontested primary winners' issue agenda						
Long-term effects						
Contested primary winners' issue agenda $_{t-1}$	0.106* (0.046)	0.164* (0.057)	-0.059* (0.028)	0.281* (0.075)	0.335* (0.058)	-0.012 (0.042)
Contested primary losers' issue agendas $_{t-1}$	-0.011 (0.125)	0.413* (0.131)	0.049* (0.024)	0.061 (0.080)	0.284* (0.071)	0.055 (0.047)
Uncontested primary winners' issue agenda $_{t-1}$						
Long run multipliers						
Contested primary winners' issue agenda	0.316* (0.047)	0.638* (0.060)	-0.111* (0.028)	0.494* (0.072)	0.723* (0.065)	-0.039 (0.042)
Contested primary losers' issue agenda	-0.034 (0.125)	1.611* (0.139)	0.092* (0.023)	0.108 (0.080)	0.614* (0.065)	0.180* (0.044)
Uncontested primary winners' issue agenda						
Democratic primary	61.515 (31.836)	28.220 (34.415)	21.840 (17.764)	75.369* (27.034)	-36.560 (24.567)	22.667 (17.963)
Gubernatorial election	-27.429 (31.550)	-6.257 (34.068)	20.098 (17.718)	-48.907 (30.075)	-27.089 (27.233)	44.583* (19.859)
Year: 2002	95.978 (53.367)	-20.776 (57.761)	28.780 (29.882)	166.733* (48.835)	-73.849 (45.008)	-10.607 (32.837)
Year: 2003						
Year: 2004	51.433 (44.823)	-25.865 (48.403)	-10.612 (25.241)	115.468* (41.279)	-54.973 (37.619)	-15.448 (27.600)
Year: 2008	15.998 (46.390)	-51.179 (49.902)	47.622 (25.841)	75.139 (42.111)	-81.795* (37.832)	45.305 (27.763)
Intercept	-30.453 (39.678)	19.262 (42.808)	-16.208 (22.329)	-66.534 (36.655)	73.611* (32.714)	-23.606 (22.833)
BIC				15,256.34		
N				205		

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.
* = $p \leq .05$ (two tailed)

Table 13: Candidate Response to their Primary and General Election Opponents in Elections in which Both Primaries are Contested: Closed Primaries

	Democratic issues				Republican issues			
	Democrats		Republicans		Democrats		Republicans	
	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers
Error correction rate (Y_{t-1})	-0.693* (0.095)	-0.369* (0.072)	-0.380* (0.086)	-0.428* (0.099)	-0.571* (0.090)	-0.528* (0.101)	-0.406* (0.104)	-0.547* (0.094)
Short-term effects								
Δ Democratic winner's issue agenda	0.621* (0.147)	0.265* (0.055)	0.014 (0.043)	-0.038 (0.039)	0.206 (0.132)	0.336* (0.095)	-0.039 (0.095)	0.181 (0.116)
Δ Democratic loser's issue agenda	0.542* (0.243)	-0.250 (0.130)	-0.055 (0.056)	0.135* (0.049)	0.206 (0.132)		-0.191 (0.115)	0.183 (0.144)
Δ Republican winner's issue agenda	-0.126 (0.325)	0.006 (0.166)	0.014 (0.124)	0.069 (0.087)	-0.152 (0.124)	-0.127 (0.120)	0.448* (0.074)	0.614* (0.126)
Long-term effects								
Democratic winner's issue agenda $_{t-1}$	1.481* (0.159)	0.348* (0.037)	0.051 (0.035)	-0.075* (0.031)	-0.428* (0.109)	0.436* (0.081)	-0.233* (0.084)	0.495* (0.094)
Democratic loser's issue agenda $_{t-1}$	0.413 (0.274)	-0.043 (0.146)	-0.024 (0.078)	0.254* (0.063)	0.592* (0.108)	0.036 (0.105)	0.036 (0.103)	-0.055 (0.128)
Republican winner's issue agenda $_{t-1}$	-0.700* (0.302)	0.648* (0.144)	0.128 (0.116)	0.079 (0.095)	0.428* (0.079)	0.061 (0.084)	0.692* (0.051)	1.110* (0.080)
Long run multipliers								
Democratic winner's issue agenda	0.897* (0.133)	0.718* (0.055)	0.036 (0.042)	-0.089* (0.038)	0.361* (0.125)	0.638* (0.099)	-0.097 (0.096)	0.331* (0.119)
Democratic loser's issue agenda	0.783* (0.252)	-0.677* (0.131)	-0.144* (0.055)	0.317* (0.052)	-0.266* (0.127)		-0.470* (0.126)	0.334* (0.141)
Republican winner's issue agenda	-0.182 (0.323)	0.016 (0.165)	0.036 (0.124)	0.163* (0.091)	0.247* (0.095)	-0.241* (0.122)	1.105* (0.094)	1.122* (0.113)
Republican loser's issue agenda								
Gubernatorial election	-431.544* (92.337)	201.683* (43.800)	27.989 (34.625)	-23.003 (31.074)	-121.563* (48.964)	118.249* (41.748)	16.483 (43.134)	0.861 (53.151)
Year: 2002	4.535 (58.994)	-25.909 (26.053)	11.124 (19.847)	-19.807 (17.607)	-9.134 (29.957)	-28.286 (24.277)	-17.260 (25.142)	25.125 (30.983)
Year: 2004	-224.526* (83.129)	88.220* (37.773)	3.617 (28.702)	-22.181 (25.741)	-130.566* (50.535)	41.840 (44.626)	-47.914 (44.210)	105.408 (54.279)
Intercept	394.692* (77.613)	-151.647* (39.186)	-7.747 (30.297)	42.617 (27.035)	133.258* (41.778)	-86.986* (37.597)	-11.549 (37.990)	-18.503 (46.628)
BIC	6,900.74							
N	75							

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.
* = $p \leq .05$ (one tailed)

Table 14: Candidate Response to their Primary and General Election Opponents in Elections in which Both Primaries are Contested: Early Primaries

	Democratic issues				Republican issues			
	Democrats		Republicans		Democrats		Republicans	
	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers
Error correction rate (Y_{t-1})	-0.327* (0.099)	-0.337* (0.103)	-0.286* (0.116)	-0.295* (0.122)	-0.305* (0.136)	-0.687* (0.141)	-0.500* (0.139)	-0.564* (0.125)
Short-term effects								
Δ Democratic winner's issue agenda	2.238* (0.625)	0.102* (0.029)	-0.047 (0.094)	-0.102* (0.044)	-6.400* (1.884)	-0.036* (0.011)	0.361 (0.222)	-0.311 (0.252)
Δ Democratic loser's issue agenda	-0.130 (0.246)	0.253* (0.041)	2.071* (0.344)	0.950* (0.179)	0.171 (0.102)	4.517 (2.930)	0.361 (0.222)	-4.808 (3.218)
Δ Republican winner's issue agenda	-1.272* (0.518)	0.501* (0.092)	-1.015* (0.300)	-0.234* (0.069)	-0.122 (0.087)	0.013 (0.008)	0.840* (0.054)	1.116* (0.072)
Long-term effects								
Democratic winner's issue agenda $_{t-1}$	0.272 (0.556)	0.061* (0.022)	-0.109 (0.065)	-0.082* (0.030)	-4.644* (2.153)	0.013 (0.011)	0.230 (0.215)	-0.229 (0.245)
Democratic loser's issue agenda $_{t-1}$	0.404* (0.199)	0.024 (0.042)	0.627 (0.334)	0.237 (0.160)	0.120 (0.103)	2.715 (3.195)	2.715 (3.195)	-2.478 (3.519)
Republican winner's issue agenda $_{t-1}$	0.270 (0.461)	0.111 (0.094)	-0.392 (0.279)	0.009 (0.061)	-0.118 (0.084)	0.001 (0.008)	0.494* (0.110)	0.641* (0.153)
Long run multipliers								
Democratic winner's issue agenda	0.832 (0.561)	0.181* (0.030)	-0.380* (0.087)	-0.278* (0.046)	-15.205* (3.342)	0.019* (0.011)	0.461* (0.096)	-0.406* (0.242)
Democratic loser's issue agenda	1.235* (0.234)	0.071* (0.041)	2.192* (0.378)	0.805* (0.147)	0.392* (0.103)	5.434* (3.239)	5.434* (3.239)	-4.397 (3.539)
Republican winner's issue agenda	0.826* (0.486)	0.330* (0.083)	-1.371* (0.265)	0.031 (0.063)	-0.387* (0.093)	0.001 (0.007)	0.988* (0.099)	1.137* (0.118)
Republican loser's issue agenda	-115.347* (42.457)	—	-0.739 (27.284)	-26.050* (12.646)	—	—	91.547* (33.885)	2.989 (19.010)
Gubernatorial election	—	—	—	—	—	—	—	—
Year: 2002	—	—	—	—	—	—	—	—
Year: 2004	—	—	—	—	25.786 (23.906)	-0.013 (1.825)	—	113.831* (36.854)
Intercept	80.625* (37.422)	-1.885 (6.431)	34.417 (23.355)	27.033* (10.482)	13.210 (10.676)	1.059 (0.820)	-98.964* (32.412)	—
BIC	2,947.68							
N	38							

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.
* = $p \leq .05$ (one tailed)

Table 15: Candidate Response to their Primary and General Election Opponents in Elections in which Both Primaries are Contested: Early Primaries

	Democratic issues				Republican issues			
	Democrats		Republicans		Democrats		Republicans	
	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers	Δ Winners	Δ Losers
Error correction rate (Y_{t-1})	-0.959* (0.104)	-0.482* (0.089)	-0.562* (0.103)	-0.517* (0.108)	-0.635* (0.101)	-0.537* (0.106)	-0.552* (0.097)	-0.640* (0.113)
Short-term effects								
Δ Democratic winner's issue agenda	0.979* (0.136)	0.402* (0.058)	0.172* (0.063)	0.101 (0.056)	0.483* (0.141)	0.279* (0.081)	0.304* (0.089)	0.443* (0.122)
Δ Democratic loser's issue agenda	0.479* (0.175)	0.082 (0.122)	0.102 (0.102)	0.091 (0.091)	0.137* (0.137)	0.197 (0.123)	0.197 (0.123)	0.335 (0.177)
Δ Republican winner's issue agenda	0.417* (0.202)	0.213 (0.142)	0.310* (0.131)	0.234* (0.101)	0.432* (0.124)	0.173* (0.103)	-0.065 (0.082)	-0.148 (0.164)
Long-term effects								
Democratic winner's issue agenda $_{t-1}$		0.376* (0.093)	0.149 (0.091)	0.144 (0.079)		0.155 (0.099)	0.280* (0.104)	0.246 (0.152)
Democratic loser's issue agenda $_{t-1}$	0.788* (0.132)		-0.076 (0.090)	0.002 (0.079)	0.289 (0.156)		0.056 (0.136)	0.291 (0.189)
Republican winner's issue agenda $_{t-1}$	0.345 (0.185)	0.001 (0.129)		0.084 (0.106)	0.264* (0.130)	0.118 (0.106)		-0.128 (0.165)
Republican loser's issue agenda $_{t-1}$	-0.215 (0.222)	0.192 (0.155)	0.312* (0.139)	0.027 (0.103)		0.234* (0.086)	-0.006 (0.094)	
Long run multipliers								
Democratic winner's issue agenda		0.780* (0.079)	0.266* (0.086)	0.278* (0.087)		0.290* (0.097)	0.506* (0.104)	0.385* (0.156)
Democratic loser's issue agenda	0.822* (0.119)		-0.135 (0.090)	0.005 (0.079)	0.455* (0.152)		0.102 (0.135)	0.455* (0.182)
Republican winner's issue agenda	0.360* (0.182)	0.003 (0.129)		0.162 (0.103)	0.415* (0.125)	0.220* (0.108)		-0.200 (0.165)
Republican loser's issue agenda	-0.225 (0.225)	0.396* (0.151)	0.555* (0.141)	0.042* (0.103)		0.435* (0.087)	-0.012 (0.094)	
Gubernatorial election	-536.573* (95.063)	240.775* (68.086)	68.447 (65.032)	84.027 (56.193)	-162.436* (57.917)	60.520 (45.283)	84.059 (49.516)	56.521 (69.857)
Year: 2002	9.468 (57.468)	-33.792 (36.056)	51.066 (32.499)	-13.517 (28.383)	10.251 (35.430)	-38.713 (25.690)	5.157 (29.049)	28.665 (39.479)
Year: 2004								
Intercept	515.745* (80.843)	-206.902* (61.780)	-90.623 (58.873)	-54.566 (51.443)	148.030* (48.403)	-49.057 (39.131)	-61.587 (42.849)	-18.279 (59.681)
BIC					6,483.72			
N					66			

Note: Estimated OLS coefficients from seemingly unrelated time series cross sectional regression are reported along with standard errors in parentheses. The long run multipliers were estimated using the Bewley (1979) transformation.
* = $p \leq .05$ (one tailed)

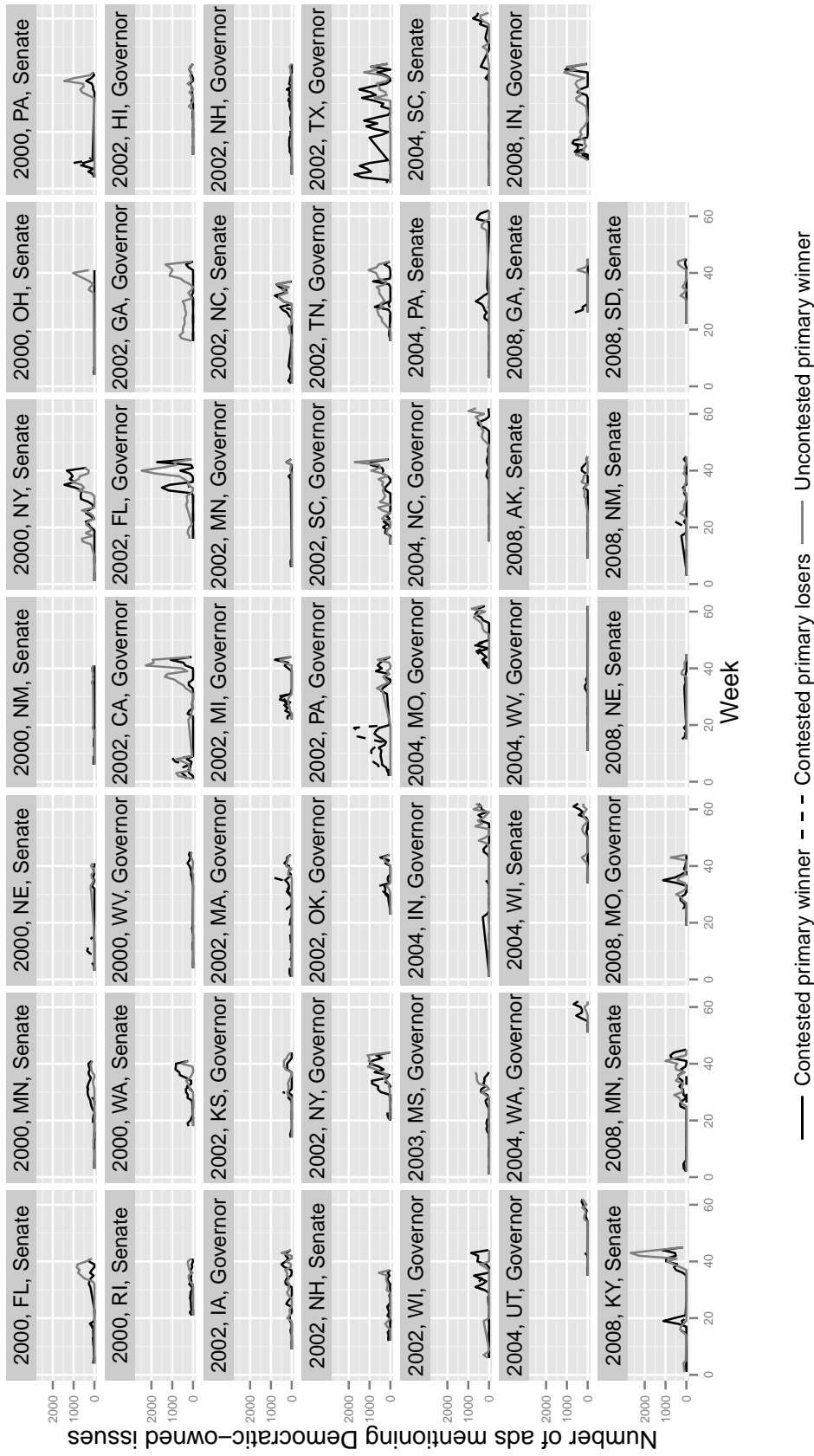


Figure 1: Percentage of Issue Agendas Devoted to Democratic-Owned Issues by State, Year, and Office: Single Contested Primary Election

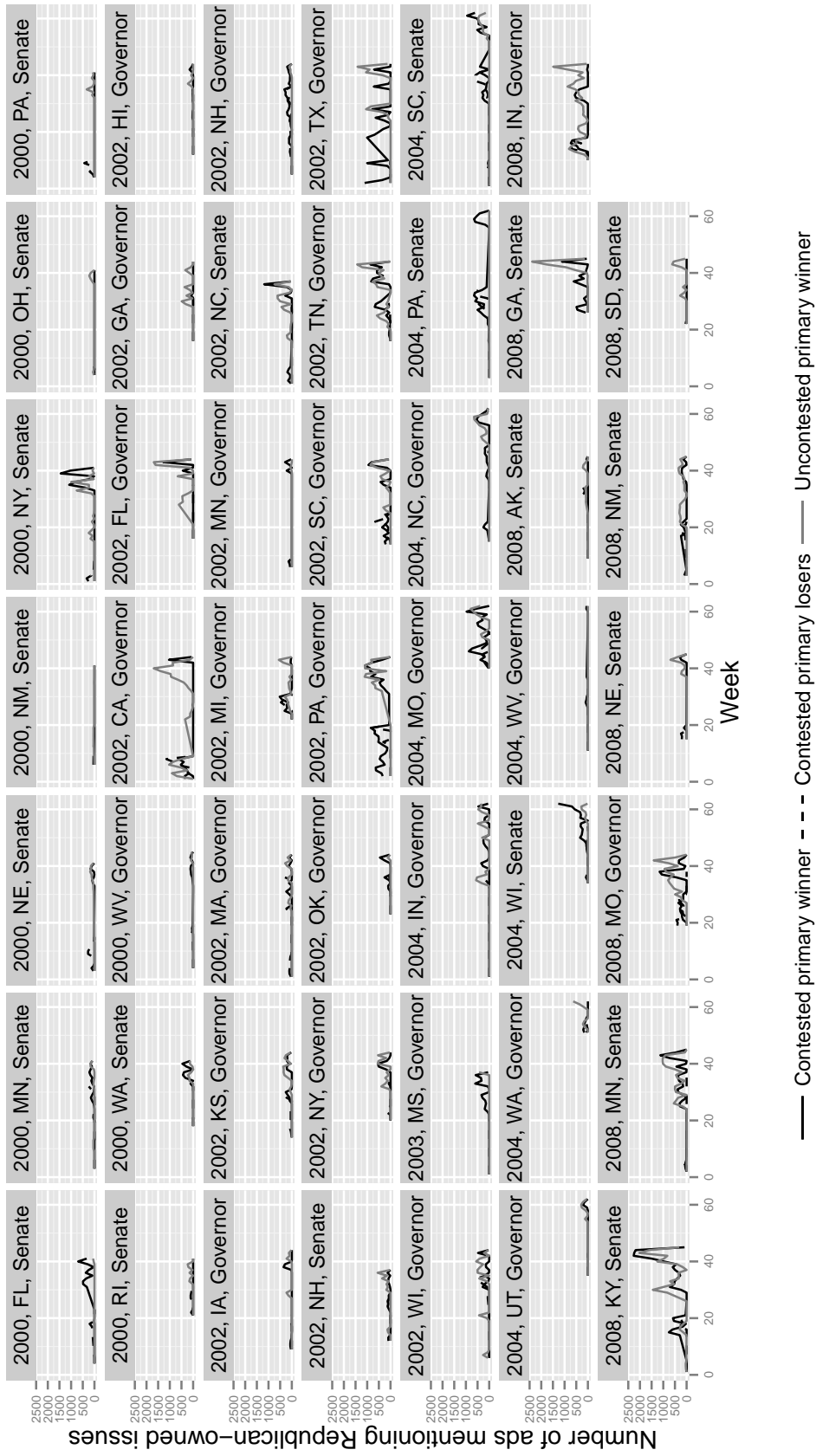


Figure 2: Percentage of Issue Agendas Devoted to Republican-Owned Issues by State, Year, and Office: Single Contested Primary Election

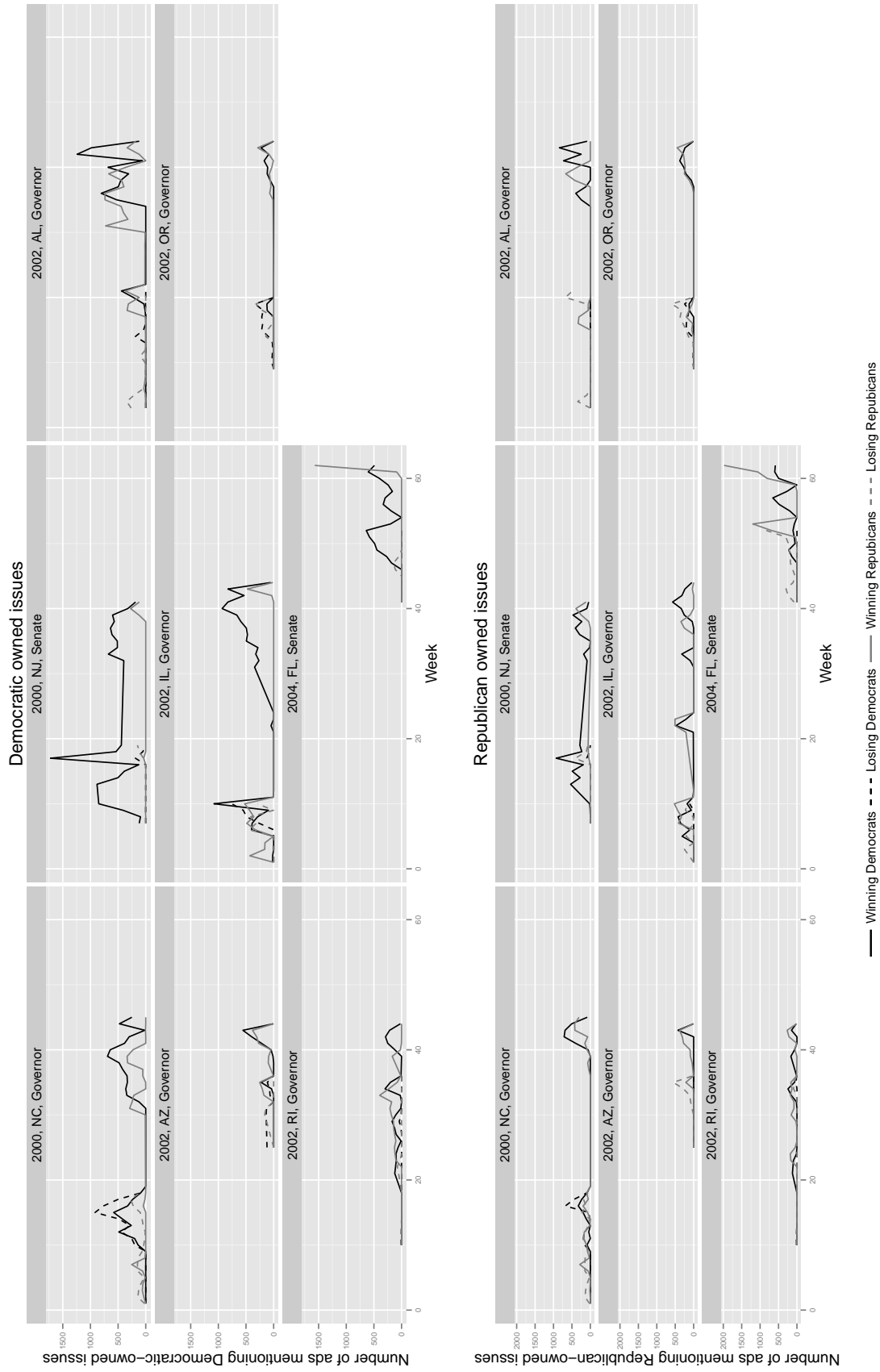


Figure 3: Percentage of Issue Agendas Devoted to Republican-Owned Issues by State, Year, and Office: Two Contested Primary Elections