

Why Do Term Limits Polarize State Legislatures?

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Abstract

Term limits have dramatically reshaped many features of legislative politics, yet the overall ideological implications of these policies remain unclear. Pairing a new dataset of local newspaper coverage and roll call-based candidate ideology scalings with a difference-in-differences design for 1992-2022, this article traces the causal chain of term limits' effects on legislative polarization across the candidate pipeline. I find that newspaper coverage of legislative elections declines sharply as well-connected incumbents are termed out, translating into diminished voter knowledge about their state legislators. Consequently, term limits systematically attenuate traditional electoral returns to moderation in general elections. As the electoral benefits of ideological moderation decline, I find that the pool of primary and general election office-seekers polarizes and, ultimately, election winners become mechanically more extreme in term-limited states. These findings help explain why term limits polarize state legislatures and illustrate how both declining news coverage and the scarcity of moderate candidates contribute to legislative polarization.

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*“Rather than bringing on the ‘Citizen Legislature’ promised by some of its advocates, term limits have generated even more partisanship.”*¹

— Peter Schrag, former editor, The Sacramento Bee

1 Introduction

Few institutional reforms to American legislatures have received more scholarly attention than legislative term limits. A rich literature investigates how term limits affect important political outcomes including the incumbency advantage (Ansolabehere and Snyder, 2004; Fowler and Hall, 2014), electoral competition (Cain, Hanley, and Kousser, 2006; Maskett and Lewis, 2007), inter-branch power distribution (Carey et al., 2006), and legislative productivity (Fouirnaies and Hall, 2022), among others.² Despite their far-reaching political consequences and theoretical implications, there is limited empirical evidence on how term limits shape legislative polarization, candidate entry, and electoral selection. To address this gap, building on Olson and Rogowski (2020), I conduct the first general equilibrium analysis of the ideological effects of legislative term limits—analyzing candidates at all stages of the electoral pipeline—and evaluate their contribution to rising polarization. Understanding these ideological effects is important for at least two reasons. First, as support for term limits grows among both the public and legislators, my analysis highlights their unintended consequences while informing future policy design.³ Second, this paper addresses widespread concern about polarization across American legislative landscapes, underscoring how weakened news environments and the dwindling supply of moderate candidates drive polarization.

In this paper, I estimate the effect of term limits on the ideological composition of both

¹Schrag (1998), pp. 13.

²The legislative term limits literature is too vast to catalogue here in its entirety. See Mooney (2009) for a survey of research on the political effects of term limits.

³A September 2023 survey, for example, reported that 87% of adults supported term limits for members of Congress, including 56% who expressed strong support (Pew Research Center, 2023). In parallel, at least seven constitutional amendments have been introduced in the 118th Congress that would limit congressional tenures (Congressional Research Service, 2023), while voters in North Dakota overwhelmingly voted to enact term limits for governor and state legislators in 2022 (MacPherson, 2022).

incumbents (e.g., Olson and Rogowski, 2020) and non-incumbents using a difference-in-differences design combined with a new roll-call based candidate ideology scaling for the years 1992-2022.⁴ I find that term limits generate a more-extreme candidate pool, and this effect is equivalent to approximately 20% of the aggregate increase in legislative polarization in state legislatures between the years 1992 and 2022. Second, drawing on an extensive new corpus of local newspaper coverage, survey responses, and election returns data, I evaluate how term limits affect the ideological composition of the legislative candidate pool. I show that, consistent with evidence on incumbent press advantages (Arnold, 2004; Cook, 2010; Fournaies, 2021; Robinson, 1981; Vinson, 2003), aggregate newspaper coverage of state legislators declines by approximately 22% on average following the introduction of term limits, and this shock translates into diminished voter knowledge about legislative politics. As a result, I find that the traditional electoral returns to ideological moderation in general elections are halved in term-limited states. These findings suggest that, by reducing news coverage of legislative elections, term limits attenuate voter knowledge, allowing more-extreme candidates to run with weakened threat of electoral sanction.

This paper builds most directly on recent work on legislative term limits by Olson and Rogowski (2020) and Fournaies and Hall (2022). Leveraging a state-level difference-in-differences design, Olson and Rogowski (2020) show that term limits increase polarization in state legislative roll-call voting patterns. In contrast, Fournaies and Hall (2022), who use a legislator-level difference-in-differences, conclude that legislators who can no longer run for reelection do not systematically alter their ideology but strategically shirk legislative duties such as casting roll-call votes and participating on committees. My analysis reconciles these competing perspectives by illustrating how, even as individual legislators' ideology remains constant, state legislatures may polarize as the pool of legislative candidates becomes increasingly extreme.

⁴Since the ideological composition of office-seekers is instrumental in shaping legislative polarization (Hall, 2015; Thomsen, 2017), my analysis of the full candidate pool contributes an important new perspective on term-limit-induced legislative polarization.

My research also relates to a growing literature that uses term limits to study how electoral incentives affect incumbent behavior (e.g., Alt, Bueno de Mesquita, and Rose, 2011; Besley and Case, 1995; Ferraz and Finan, 2011; Fourniaies and Hall, 2022; List and Sturm, 2006) and complements work on professionalization and partisan control in state legislatures (Fiorina, 1994, 1996; Meinke and Hasecke, 2003).⁵ More broadly, this paper connects to a rich body of work on political polarization across legislative landscapes (Handan-Nader, Myers, and Hall, 2024; Layman, Carsey, and Horowitz, 2006; McCarty, Poole, and Rosenthal, 2006; Poole and Rosenthal, 1984; Shor and McCarty, 2011, 2022) and electoral selection (Ansolabehere, Snyder, and Stewart, 2001; Canes-Wrone, Brady, and Cogan, 2002; Canes-Wrone and Kistner, 2022; Hall, 2019; Rogers, 2017; Utych, 2020).

The remainder of this paper is organized as follows. Section two outlines my solution to the methodological challenges of studying candidate pool ideology and introduces new datasets on state legislative candidate ideology and news coverage. In section three, I trace the effect of term limits on legislative newspaper coverage and voter knowledge about legislative politics. Section four investigates how term limits affect electoral selection. In the fifth section, I focus on candidate supply, documenting the polarizing effects of term limits across all stages of legislative elections. Finally, section six discusses implications of the findings and concludes.

2 Empirical Strategy

Over the past three decades, twenty-two states have enacted legislative term limits.⁶ Often deeply unpopular among contemporary legislators, these movements have relied almost ex-

⁵Other related studies of term-limit induced ideological extremity report null results in the context of the Arkansas State Senate (Titunik and Feher, 2018) and California legislature (Cain and Kousser, 2004). Wright (2007) also finds no effect of term limits on roll-call voting for the 1999-2000 legislative session. Finally, Masket and Shor (2015) find that the partisan-lead replacement of termed-out legislators in Nebraska accelerated that state's polarization, even in the absence of traditional partisan affiliations.

⁶Legislative term limits imposed by voters in six states were nullified by court or legislative action. Term limits briefly termed-out incumbents in Oregon in 1998, but were nullified by the Supreme Court before the 2000 elections. Sixteen states currently have legislative term limits in effect.

Table 1 – Summary of Term-Limited States Included in Analysis.

State	Year Enacted	Year Binding	Type	Term Limit Lower Chamber	Term Limit Upper Chamber
AR	1992	1998	$\begin{cases} \text{Lifetime} & t < 2020 \\ \text{Consecutive} & t \geq 2020 \end{cases}$	$\begin{cases} 6 & t < 2014 \\ 16 & t \in [2014, 2020) \\ 12 & t \geq 2020 \end{cases}$	$\begin{cases} 8 & t < 2014 \\ 16 & t \in [2014, 2020) \\ 12 & t \geq 2020 \end{cases}$
AZ	1992	2000	Consecutive	8	8
CA	1990	1996	Lifetime	$\begin{cases} 6 & t < 2012 \\ 12 & t \geq 2012 \end{cases}$	$\begin{cases} 8 & t < 2012 \\ 12 & t \geq 2012 \end{cases}$
CO	1990	1998	Consecutive	8	8
FL	1992	2000	Consecutive	8	8
LA	1995	2007	Consecutive	12	12
ME	1993	1996	Consecutive	8	8
MI	1992	1998	Lifetime	6	8
MO	1992	2002	Lifetime	8	8
MT	1992	2000	Consecutive	8	8
ND	2022	2022	Consecutive	8	8
NV	1996	2010	Lifetime	12	12
OH	1992	2000	Consecutive	8	8
OK	1990	2004	Lifetime	12	12
OR [†]	1992	1998	Lifetime	12	12
SD	1992	2000	Consecutive	8	8

[†]Term limits briefly termed-out incumbents in Oregon in 1998, but were nullified by the Supreme Court before the 2000 elections.

Note: *Year Enacted* refers to year term limit legislation became law. *Year Binding* refers to first year in which incumbents are no longer eligible to run for re-election. Nebraska is excluded from the analysis.

Source: The National Conference of State Legislatures.

clusively on the ballot initiative process to impose term limits. In fact, of the states that allow ballot initiatives, only three—Alaska, Illinois and Mississippi—have not imposed term limits at some time. Hence, from a design perspective, term limits represent a shock to the electoral system that is plausibly independent of legislator preferences.⁷

To implement my study, I build three key datasets on state legislative elections, each of which I describe in detail below. Cumulatively, these datasets cover 49 states for the years 1992-2022, ensuring extensive coverage of candidates at all stages of the election pipeline.⁸ Table 1 summarizes the relevant characteristics of the term-limited states that enter my analysis.

⁷In subsequent sections, I test for evidence that the introduction of term limits is correlated with rising polarization. I find no evidence of such pre-trends.

⁸In accord with existing work, I exclude non-partisan Nebraska from the analysis and focus on Democratic and Republican candidates and legislators.

2.1 Predicting Legislative Roll-Call Using Handan-Nader, Myers, Hall Scores

Due to data limitations, existing empirical work on term limits focuses exclusively on incumbent legislators’ ideology. As Hall (2019) and Thomsen (2017) illustrate, designs focused on incumbent legislators miss a key source of polarization from the candidate pipeline. Hence, an ideal measure of ideology for the study of term limits would capture how candidates would cast roll-call votes if they were elected to office. Unfortunately, existing candidate ideology scalings are not optimized to measure state legislative roll-call behavior.⁹ For example, Bonica’s (2014) CFscores, which use unsupervised machine learning to predict legislator ideal points from campaign contributions, have low within-party correlations with roll-call based ideology measures (Hill and Huber, 2017; Tausanovitch and Warshaw, 2017). For contexts where high within-party correlation is important, Bonica (2018) develops supervised scalings that explicitly predict legislative roll-call behavior. However, these DW-DIME scores do not cover most state legislative candidates and are trained using congressional DW-NOMINATE scores, rather than state legislative NP-Scores. Further, since CFscores and DW-DIME scores are trained using contributions from after a legislator first wins office, these scalings may confound electoral desirability with ideological moderation in my study.¹⁰ Hence, to accurately measure legislative polarization and conduct electoral analyses, a new ideology scaling is required.

To measure candidates’ roll-call ideology, I rely on the estimated ideological positions of state legislative candidates from Handan-Nader, Myers, and Hall (2024) for the years 1992-2022 (Handan-Nader, Myers, Hall Scores, henceforth abbreviated “HMH Scores”). HMH Scores leverage supervised machine learning to predict incumbents’ NP-Scores using dona-

⁹Shor and McCarty’s (2011) NP-Scores, which are derived directly from legislative roll-call data, are the only available for the subset of state legislative candidates who become sitting legislators.

¹⁰For example, if access-seeking interest groups donate to incumbents of both parties, the predictive model may confound electoral desirability with ideological moderation. This point is discussed in detail in Appendix B.

tions each incumbent receives before first serving in office.¹¹ The predictive model is then applied to all state legislative candidates, yielding scalings that correlate highly with observed roll-call behavior, even within party, for incumbents and non-incumbents.¹² HMM Scores are static over a legislator’s career, matching the construction of NP-Scores. See Appendix B for a complete description of the HMM Score scaling process.

While I prefer HMM Scores for their ability to differentiate candidates within-party and short-circuit post-treatment bias in election analyses, I show in Appendix Table E.1 and Table F.1 that my findings are substantively identical when I use CFscores.

2.2 Assembling Election Returns and Legislative News Coverage Data

Next, in order to evaluate how term limits affect electoral selection, I obtain general election returns from the State Legislative Election Returns dataset (SLERs) (Klarner, 2023). This dataset contains the universe of state legislative general elections held during the period of my study.¹³ To this dataset I add indicators for candidate-level and chamber-level term limits using data from the National Conference of State Legislatures (NCSL).

Second, news coverage of elections may shape voter knowledge (Snyder and Stromberg, 2010) and inform electoral returns to moderation (Canes-Wrone and Kistner, 2023; Myers, 2024). To evaluate this possibility, I build a corpus of local and regional newspaper coverage of all candidates running in state legislative general elections for the years 1992-2022.¹⁴ I

¹¹By restricting the contribution matrix to the donations made to each candidate before they first win office, HMM scores avoid potential post-treatment bias if a subset of donors strategically contribute to candidates.

¹²Specifically, the within-party correlation between HMM scores and NP-Scores is $r = .78$ for Democrats and $r = .72$ for Republicans. Further, Handan-Nader, Myers, and Hall (2024) use an optimal cutting-point procedure to calculate the percent of legislative votes for the years 2000-2022 that are classified correctly by HMM scores. They find that HMM Scores correctly predict 90.4% of roll-call votes (APRE=.717) which is second only to NP-Scores (91.6%, APRE=.759).

¹³I exclude special elections from the analysis. Inclusion of this small subset of elections does not affect my conclusions.

¹⁴Since state legislative elections are typically highly localized, it is essential to analyze local and regional—rather than national—coverage.

collect this data from Newspapers.com, an online database containing 596 million newspaper pages for nearly 6,700 local and regional U.S. newspapers for the years 1992-2022. Using this data, I measure legislator news exposure by counting the number of articles written about each general election candidate in every election year. Appendix C.1 outlines this process in detail. Overall, this data contains 13.7 million articles about state legislative general election candidates.

Finally, to explore the consequences of shocks to the legislative news environment, I build a dataset of voter knowledge about state legislative politics using nearly 500,000 responses to the CES from 2010-2020. These responses test individuals' knowledge of partisan control in their home legislature and Congress.

After merging the candidate ideology scalings with the general election returns and news coverage data, my combined dataset features a total of 204,995 candidate-year observations.

2.3 Difference-in-Differences Design

The results throughout this paper are identified by a difference-in-differences design for the years 1992-2022.¹⁵ The unit of analysis is either the legislator, state, or district-newspaper. Here, I focus on the state-level specification, although the results generalize directly to the other two settings. Specifically, I model

$$Y_{st} = \beta_0 + \beta_1 \textit{Term Limited}_{st} + \Omega X_{st} + \alpha_s + \delta_t + \epsilon_{st}, \quad (1)$$

where Y_{st} is an outcome (either legislative polarization or a measure of news coverage) in state s in year t , X_{st} is a vector of controls, and α_s and δ_t are state and year fixed effects, respectively. The term limits variable, $\textit{Term Limited}_{st}$, indicates whether state s in time t had term limits in effect.¹⁶ The error term, ϵ_{st} , is clustered at the state level. This

¹⁵This modeling strategy was first implemented by Olson and Rogowski (2020).

¹⁶Since term limits alter legislative incentives before becoming binding, an alternate definition might operationalize $\textit{Term Limited}_{st}$ according to term limits' dates of enactment. Unfortunately, campaign finance data limitations preclude this possibility. Existing research by Keele, Malhotra, and McCubbins (2013),

specification allows me to compare outcomes within states over time.

Importantly, this difference-in-differences design requires a parallel trends assumption. This assumption dictates that polarization or news trends following the implementation of term limits in treatment states (i.e., states that eventually implemented term limits) would, in expectation, be the same as trends in control states (i.e., states that never enacted legislative term limits) absent term limits. In conjunction with each analysis, I test for violations of this assumption and find no evidence of pre-existing trends (“pre-trends”) between treatment and control states. Combined with knowledge of the quasi-random implementation of state legislative term limits, the following results may meaningfully be interpreted as the ideological effect of term limits.

In this section, I have introduced two large-scale datasets on candidate ideology and legislative newspaper coverage, and I have outlined a difference-in-differences design for studying the effects of term limits on legislative polarization. With this empirical setup in hand, the remainder of this paper traces the causal effect of term limits on legislative polarization. The analysis begins by evaluating how term limits affect voters and their electoral selection of legislators. By studying the micro-level determinants of election outcomes, we are able to gain a fuller understanding of the channels through which term limits affect polarization. Following that, I directly evaluate whether term limits affect polarization among the pool of legislative office-seekers and, ultimately, future incumbents.

however, find similar results using enactment and implementation dates. Further, as Olson and Rogowski (2020) note, defining *Term Limited*_{st} based on implementation date will likely serve to attenuate coefficient estimates, making this analysis particularly rigorous. When years of impact differ between a state’s upper and lower chamber, I code treatment as beginning on the first year of impact.

3 News Coverage and Voter Knowledge in Term-Limited States

Press coverage is widely regarded as having an important monitoring effect on democratic elections. Snyder and Stromberg (2010) find, for example, that members of Congress represent their constituencies better when news coverage is stronger by garnering more federal spending, participating more frequently in committee hearings, and moderating their partisan voting. Recent research on Congress by Canes-Wrone and Kistner (2023) and state legislatures by Myers (2024) further reports that candidates running in races that receive stronger news coverage face larger electoral penalties for ideological extremity.¹⁷

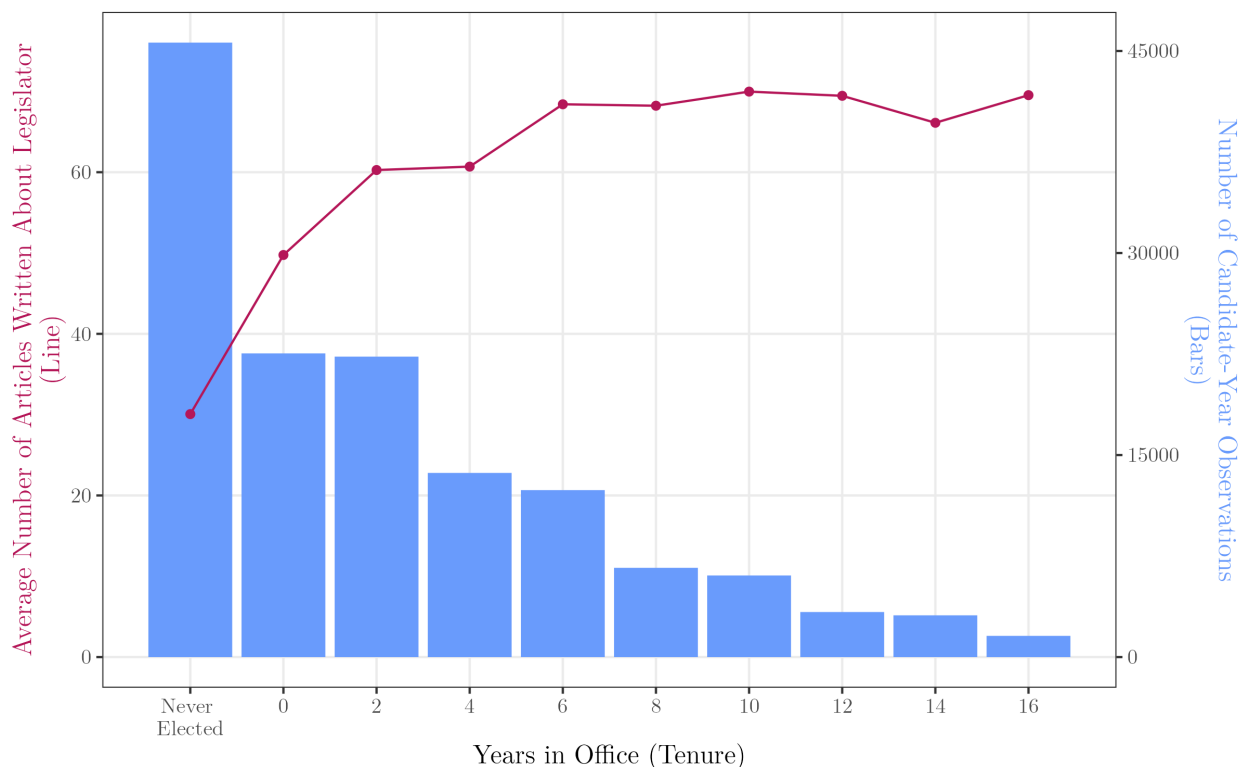
A rich literature also documents that local news media devote more coverage to incumbents and senior members of Congress than challengers and junior members (Arnold, 2004; Cook, 2010; Robinson, 1981; Vinson, 2003). These coverage differentials may arise because local reporters, who often lack the resources and time to initiate and write numerous political articles, rely on legislators to alert them to important stories and provide relevant information (Kaniss, 1991; Paletz and Entnam, 1981). Further, more-experienced legislators may have stronger journalistic connections, allowing them to garner more coverage than their more-junior counterparts (Arnold, 2004).

Using the large-scale newspaper corpus described in Section 2.2, Figure 1 tests whether this seniority-based news coverage advantage holds in state legislatures. The solid line in Figure 1 plots the average number of newspaper articles written about a given legislator or candidate (vertical axis, left side) across different tenures in office (horizontal axis). On the horizontal axis, general election candidates who were never elected to legislative office are labeled “Never Elected,” while incumbent legislators have tenures equal to their experience in legislative office at the time of the election.¹⁸ For reference, the bars (vertical axis, right

¹⁷A related set of research on state legislatures suggests that voters are better able to hold their representatives accountable for policymaking when news coverage is strong (e.g., Rogers, 2017, 2023).

¹⁸Since 9.4% of legislators in my sample serve in both of their state’s legislative chambers at some point in their career, I define legislators’ tenure based on the cumulative number of years served in both chambers.

Figure 1 – Number of Articles Written About Legislators and Candidates By Tenure in Office. The average number of newspaper articles written about legislators or candidates (pink line, left-side vertical axis) is strongly increasing in legislator tenure. Tenure-related newspaper coverage gains are largest in legislators’ first 10 years in office, which constitutes the vast majority of observations that enter my analysis (blue bars, right-side vertical axis).



side) plot the number of candidate observations for every level of tenure. I find that more-senior legislators indeed receive more news coverage than their less-senior counterparts. For example, an average of 49 articles are written about freshmen legislators while 60 articles are written about legislators with two years of experience, or an approximately 22% increase in newspaper coverage. Legislators with ten years of experience are covered in 69 articles on average, or an increase of 41% relative to freshman legislators.

Hence, a decrease in the average tenure of state legislators is likely to decrease aggregate newspaper coverage of legislative politics. Term limits—by terming-out tenured legislators—may produce exactly this scenario. This possibility is clearly reflected in a Michigan state-

Results when tenures are calculated separately for each chamber are substantively identical.

house reporter who notes that “partly because of term limits...there are fewer long-lasting relationships between the media and the elected officials” (quoted in Cooper and Johnson, 2006, 23).

In the remainder of this section, I evaluate whether the introduction of term limits causes a decrease in legislative newspaper coverage and whether these changes affect voter knowledge about legislative politics. In subsequent sections, following research that finds that newspaper coverage strengthens the link between ideological moderation and electoral success (Canes-Wrone and Kistner, 2023; Myers, 2024), I evaluate whether term limits affect ideological selection in state legislatures and the ideological composition legislative office-seekers.

3.1 Newspaper Coverage of State Legislators

The results reported in Figure 1 suggest that, by terming out well-tenured incumbents that receive extensive news coverage, term limits may limit overall legislative newspaper coverage. To evaluate this possibility formally, I leverage the staggered introduction of term limits in the difference-in-differences framework described in Section 2.2. Table 2 reports the difference-in-differences estimate of the effect of term limits on newspaper coverage of general election candidates for state legislatures during election years.¹⁹ My specification mirrors Equation 1 where s is the legislative district (columns one and two) or district-newspaper (columns three and four).²⁰ First, in columns one and two, the unit of analysis is the legislative district, and I use year and district fixed effects to account for differential newspaper coverage. This design makes within-district comparisons of newspaper coverage of general election candidates.

On average, newspapers in my sample write approximately 55 articles about state legisla-

¹⁹There is some concern that, by including newspaper coverage of challengers in addition to incumbents, my analysis captures a mechanical increase in newspaper coverage arising when multiple candidates run for the same seat. To address this concern, in Appendix C.2 I reestimate the models in Table 2 after including fixed effects for the number of general election candidates running in each district-year. My conclusions remain the same.

²⁰Observe that the treatment, $Term\ Limited_{st}$, is identical for all legislators in a given state-year.

Table 2 – Effect of Term Limits on State Legislative News Coverage. Local and regional newspapers write fewer articles about state legislative general election candidates following the implementation of term limits.

	Articles About General Election Candidates			
	District Level		Newspaper-District Level	
	(1)	(2)	(3)	(4)
Term Limited	-13.68 (6.25)	-12.10 (3.24)	-1.52 (0.34)	-1.47 (0.63)
N	116,519	116,519	489,794	489,794
Controls	No	Yes	No	Yes
Year FEs	Yes	Yes	Yes	Yes
District FEs	Yes	Yes	No	No
Newspaper-District FEs	No	No	Yes	Yes
Outcome Mean	55.08	55.08	9.87	9.87

Note: In columns one and two, the unit of analysis is the district-year. In columns three and four, the unit of analysis is the district-newspaper-year. Across all columns, the outcome is the number of references to state legislative general election candidates in local and regional newspapers. Robust standard errors clustered by state in parentheses. Controls are total population, share of seats up for election, and number of news-related interest groups.

tive general election candidates in a given district every election cycle. Column one indicates that term limits lead to 13.68 fewer articles being written about each race, or a 25% decline in coverage. Column two reports 22% decline after controlling for the share of state legislative seats up for election, total population, and number of news-related interest groups active in the state. Second, to further validate the analysis, columns three and four of Table 2 analyze the same relationship at the district-newspaper level and include newspaper-by-district and year fixed effects. I again find that, following the implementation of term limits, newspapers write fewer articles about the state legislative candidates. The average newspaper writes approximately 10 articles about state legislators, so columns three and four translate into a more-modest 14% decline in coverage after term limits.

In sum, these estimates indicate that newspaper coverage of state legislative general election races declines as well-connected incumbents are termed out of office. I now turn to

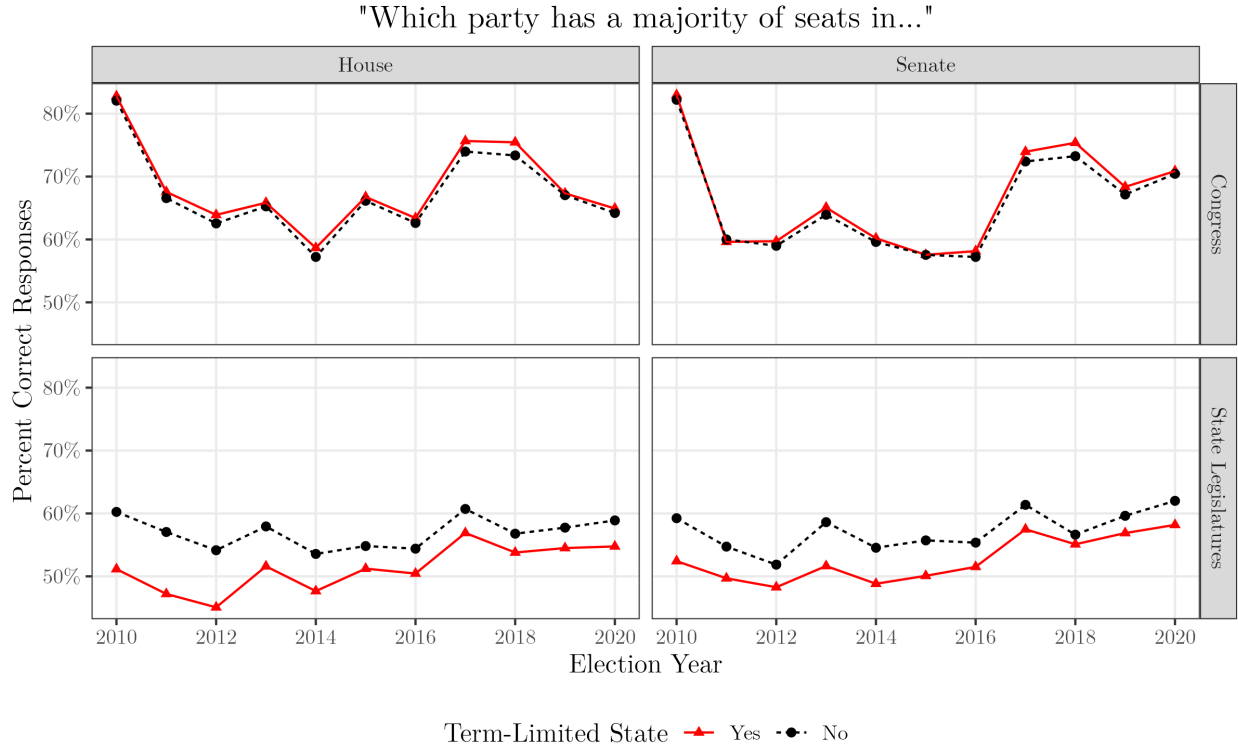
evaluating whether these changes in the media environment affect voters’ knowledge about legislative politics.

3.2 Voter Knowledge in Term-Limited States

The estimates reported in Table 2 imply that term limits cause a sharp decline in aggregate legislative newspaper coverage, but these effects will likely only affect electoral outcomes if they alter voters’ knowledge about legislative politics. To identify whether this decline in newspaper coverage affects voters, I build a dataset on voter knowledge about state legislatures and Congress using data from the Cooperative Election Survey (CES), a national stratified survey administered to more than 50,000 people every two years. Every year since 2010, the CES has asked its respondents “Which party has a majority of seats in ...” the U.S. House and Senate and the respondents’ state upper and lower legislative chambers. Respondents must choose between “Republicans”, “Democrats”, “Neither”, or “Not sure.” For every state-year from 2010-2022, I impute the correct response and compute the share of respondents that answer correctly. Although limited in yearly coverage and question scope, in the absence of other historical survey data on state legislative elections, this is the best available measure of voters’ knowledge of legislative activities.

Since the CES data begins in 2010, I am unable to obtain a formal difference-in-differences estimate of the effect of term limits on correct response rate. Instead, I use the same individuals’ response rates for questions about Congress—an institution not subject to term limits—as a comparable untreated outcome. Figure 2 plots the percent of correct responses for questions about Congress and state legislatures stratified by whether the respondent resided in a term-limited state. Predictably, respondents know more about Congress than they know about their state legislature. More interestingly, the first row of Figure 2 illustrates that respondents in term-limited states are indistinguishable from their non-term-limited counterparts when asked about Congress, suggesting these two groups of respondents have similar baseline levels of political knowledge. The second row, however, illustrates that

Figure 2 – Percent Correct Responses to CES Voter Knowledge Questions. This figure depicts average response accuracy rates to four CES questions about party control of Congress and respondents’ home state legislatures. Respondents in term-limited states (whose knowledge about federal elections matches their non-term-limited counterparts) have reduced political knowledge about their home state legislatures.



respondents who live in term-limited states correctly identified the party in power at a level that is significantly lower than respondents who resided in non-term-limited states. Using the correct response rate for questions about Congress as the control condition in Appendix D, I find that the informal difference-in-differences estimate of the effect of term limits on voter knowledge in state politics is 5.99 percentage points.²¹ Given an overall correct response rate of 55%, this translates into a 11% decline in voter knowledge about state legislatures.

In this section, I have found that term limits—by removing incumbents who receive a disproportionate share of newspaper coverage—attenuate press coverage of legislative elections. I further presented evidence that these informational shocks translate into diminished voter

²¹I refer to this estimate as an “informal” difference-in-differences because the estimand is identified by cross-sectional—rather than time-series—variation.

knowledge about their state legislatures. In the next section, I test whether voters are less-able to select moderate candidates as a result of the weakened informational environment in term-limited states.

4 Electoral Selection

Voters in state legislative general elections have a well-documented preference for moderate candidates (Handan-Nader, Myers, and Hall, 2024; Rogers, 2017). But, in the absence of robust news coverage, previous research suggests that the electoral return to ideological moderation may be muted (Canes-Wrone and Kistner, 2023; Myers, 2024). An important implication of this result is that decreases in voters’ knowledge about legislative politics may attenuate the electoral selection that, on average, favors moderates in legislative elections. The following section evaluates this mechanism, drawing on newly-available candidate ideology scalings from Handan-Nader, Myers, and Hall (2024).

4.1 Midpoint Design

To assess the role term-limited states’ electorates play in producing increased legislative polarization, I compare the ideology of competing Democratic and Republican general election candidates and predict their electoral returns to changes in ideological platform. To do so, I adopt the midpoint method of Ansolabehere, Snyder, and Stewart (2001) to my setting. Consequently, I estimate a baseline equation of the form

$$Y_{dct} = \beta_0 + \beta_1 \text{Midpoint}_{dct} + \beta_2 \text{Distance}_{dct} + \Omega X_{dct} + \alpha_d + \delta_t + \epsilon_{dct}, \quad (2)$$

where Y_{dct} is the Democratic candidate’s general election vote share in district d in chamber c in year t .²² *Midpoint* and *Distance* are the midpoint and distance between Democratic

²²Since this design requires competition between one Democratic and one Republican candidate, I restrict my sample to elections in contested single-member districts when using the midpoint model.

and Republican candidates, respectively. Finally, X_{dct} is an optional vector of controls, α_d and δ_t are district and year fixed effects, respectively, and the error term, ϵ_{dct} , is clustered by district d .²³

Typically, the coefficient of interest is β_1 , or the estimated electoral return for the Democratic candidate arising from a rightward (i.e., positive) shift in *Midpoint* under term limits. Previous research on Congress (Ansolabehere, Snyder, and Stewart, 2001; Canes-Wrone, Brady, and Cogan, 2002; Hall, 2015, 2019; Hall and Thompson, 2018) and state legislatures (Handan-Nader, Myers, and Hall, 2024; Rogers, 2017) suggests that β_1 is positive, indicating that, on average, general election voters reward moderate candidates at the ballot box.

After replicating existing findings, I test whether electoral selection differs between term-limited and non-term-limited states by adding the terms $\beta_3 \textit{Term Limited}_{dct} + \beta_4 \textit{Midpoint}_{dct} \cdot \textit{Term Limited}_{dct}$ to Equation 2, where *Term Limited* indicates whether term limits are binding.²⁴ For this study, the key coefficient is β_4 , which captures the change in *Midpoint* following the adoption of term limits.

4.2 Electoral Selection Results

Table 3 reports my estimates of midpoint model (i.e., Equation 2). The baseline model reported in column one provides compelling evidence that general election candidates are punished by voters for ideological extremity. That is, more-extreme candidates receive, on average, lower vote shares in state legislative elections. My point estimate closely mirrors work by Handan-Nader, Myers, and Hall (2024) on state legislatures.

²³The midpoint model requires the ideology of districts' median voter to be held constant. Ansolabehere, Snyder, and Stewart (2001) use presidential vote share for this purpose. Because presidential vote share is not consistently available at the level of state legislative districts, I employ district-regime fixed effects to hold the median voter constant.

²⁴The full equation is then

$$Y_{dct} = \beta_0 + \beta_1 \textit{Midpoint}_{dct} + \beta_2 \textit{Distance}_{dct} + \beta_3 \textit{Term Limited}_{dct} + \beta_4 \textit{Midpoint}_{dct} \cdot \textit{Term Limited}_{dct} + \Omega X_{dct} + \alpha_d + \delta_t + \epsilon_{dct}.$$

Table 3 – Term Limits Attenuate Traditional Electoral Returns to Moderation in Contested General Elections. These models report the expected general election electoral returns resulting from a liberal (i.e., positive) shift in candidate ideology. Returns to moderation are halved in term-limited states.

	Dem Vote Share			
	(1)	(2)	(3)	(4)
Midpoint	0.08 (0.02)	0.18 (0.03)	0.11 (0.02)	0.11 (0.02)
Term Limits	-0.01 (0.02)	-0.03 (0.02)	-0.01 (0.02)	0.01 (0.02)
Midpoint · Term Limits		-0.08 (0.04)	-0.08 (0.03)	-0.08 (0.03)
Distance · Term Limits				-0.05 (0.03)
Distance		0.06 (0.02)	0.06 (0.02)	0.08 (0.02)
Dem Contributions	0.02 (0.00)		0.02 (0.00)	0.02 (0.00)
Rep Contributions	-0.02 (0.00)		-0.02 (0.00)	-0.02 (0.00)
N	7,334	7,334	7,334	7,334
Standard Deviation	.34	.34	.34	.34
District Fixed Effects	Yes	Yes	Yes	Yes
Year Fixed Effects	Yes	Yes	Yes	Yes

Note: The outcome is either Democratic vote share or a Democratic win indicator. Robust standard errors are clustered by district in parentheses. Midpoint and Distance variables are scaled to run from 0 to 1. The sample is limited to contested general elections in single member districts.

We are primarily interested in the difference in *Midpoint* coefficients between term-limited and non-term-limited state-years. To estimate this difference, the remaining columns in Table 3 interact *Midpoint* with *Term Limits*, an indicator for the presence of legislative term limits defined in Section 5. If voters in term-limited states reward ideological extremity at a higher rate than their peers in non-term-limited states, the interaction term would be negative. Conversely, if, relative to non-term-limited states, voters in term-limited states punish candidates for ideological extremism more, the interaction term would be positive.

Column one of Table 3 estimates the baseline electoral return to ideological modera-

tion. The coefficient on *Midpoint* of .08 indicates that a shift from the most-extreme to most-moderate Democratic candidate is associated with a 8-percentage-point increase in Democratic vote share.²⁵ This estimate is of similar magnitude to the effects reported in Handan-Nader, Myers, and Hall (2024). The interaction terms across the remaining columns in Table 3 are negative and significant, indicating that extreme ideological positions are penalized at a lower rate in term-limited states. Column two indicates that term limits reduce the advantage to moderation in general elections by 45% (.08/.18). In column three, I add controls for Democratic and Republican campaign contributions. Finally, to allow for a more-flexible effect of candidate distance, I interact *Term Limits* with *Distance* in column four. Across specifications, the effects of term limits on *Midpoint* are decidedly large. In fact, the majority of models in Table 3 predict that term limits reduce the electoral return to moderation in general elections by at least 50%.

Hainmueller, Mummolo, and Xu (2019) show that multiplicative interaction models—such as my application of the midpoint model—often tend to erroneously assume linearity in effect and common support of the moderating variable. In response, I report the diagnostic measures proposed by Hainmueller, Mummolo, and Xu (2019) in Appendix Figure E.2.²⁶ As Figure E.2 illustrates, this interaction effect is linear and there is common support of the predictors across term-limited and non-term-limited states. Hence, the assumptions of the multiplicative interaction model appear to hold. As a second robustness check, in Appendix Table E.1, I reestimate the midpoint model using CFscores. My substantive conclusions are unchanged using this alternative scaling.

In sum, Table 3 establishes a key new finding: term limits systematically attenuate the traditional advantage of more-moderate candidates in contested general elections. These results are robust across alternative ideological scalings and modeling specifications.

²⁵Note that these estimates are not intended to isolate the causal effect of candidate ideology. Instead, they capture the combined effect of a bundled treatment of ideological platforms and all other correlated candidate attributes.

²⁶Figures were created using the R package *interflex*.

5 Term Limits Increase Polarization Across the Electoral Pipeline

The results presented thus far indicate that, as news coverage of and voter knowledge about legislative politics falls, the electoral returns to moderation become significantly smaller in term-limited state legislatures. As these returns decline, we may expect the supply of moderate candidates to decline in parallel. In this section, I use my data on state legislative ideology to estimate the effect of legislative term limits on candidate pool and incumbent polarization.

The analysis proceeds in two stages. First, I evaluate how term limits affect the polarization of the supply of legislative candidates, including the pool of primary election candidates and general election candidates. Recent work suggests that it is essential to consider this indirect effect of the complete candidate pool on legislative polarization, rather than only the effect of sitting incumbents. For example, in the context of U.S. House of Representatives elections, Hall (2019) shows that the vast majority of polarization originates from ideological extremity that is built into the pool of candidates who run for office (see also Thomsen, 2017). Second, I assess whether polarization of the candidate pool translates into increased extremity among incumbent legislators.²⁷ It is this second source of polarization that ultimately affects policymaking.

5.1 Effect of Term Limits on Candidate Supply

To evaluate how term limits affect the supply of legislative office-seekers, I begin by analyzing how term limits affect polarization across the candidate pipeline—including primary and general election candidates. For a given set of candidates or legislators, I define legislative polarization, Y_{st} , as the difference between the median Republican and Democratic candidates' ideology scalings in state s in year t . Across all specifications I present a univariate

²⁷While Olson and Rogowski (2020) initially studied this second estimand, I revisit their analysis with the benefit of expanded legislative ideology data.

Table 4 – Effect of Term Limits on Candidate Pool Polarization. Term limits increase polarization across the pool of legislative office seekers.

	Candidate Pool Polarization			
	(1)	(2)	(3)	(4)
Term Limited	0.12 (0.03)	0.12 (0.03)	0.12 (0.03)	0.08 (0.02)
Term Limited, $t + 1$			-0.02 (0.03)	
Term Limited, $t + 2$			0.05 (0.03)	
Log(Leg Prof)		0.10 (0.06)	0.09 (0.06)	0.13 (0.08)
Divided Government		-0.02 (0.01)	-0.01 (0.01)	-0.01 (0.01)
Party Competitiveness		-0.20 (0.14)	-0.13 (0.13)	-0.01 (0.08)
N	611	611	521	611
Outcome Standard Deviation	.39	.39	.39	.39
Year FEs	Yes	Yes	Yes	Yes
State FEs	Yes	Yes	Yes	Yes
State Specific Linear Time Trend	No	No	No	Yes

Note: In all columns the outcome is the difference in party median HMH Scores. Standard errors are clustered by state in parentheses.

model and, to guard against the possibility of attributing non-static state features to the effect of term limits, a model with state governance controls. The battery of controls was first introduced in Olson and Rogowski (2020). The variable *Legislative Professionalism* (Squire, 2017) combines information on legislator salary, session length, and staffing resources to quantify legislator engagement in policy making. *Divided Government* indicates whether one party simultaneously controls the governorship, lower and upper legislative chambers. Finally, *Party Competitiveness* measures the absolute two-party difference in control of legislative seats. In Section 5.1.1 and Appendix F.3, I show my results are robust to a variety of alternative specifications.

Table 4 reports the difference-in-differences estimate of the effect of term limits on polarization using Equation 1. Columns one and two estimate the effect of term limits on candidate-pool polarization with and without controls, respectively. The point estimates for

Term Limited in these columns indicate that state legislative term limits increase legislative polarization by approximately one third of one standard deviation of the distribution of polarization. For more context, the *Term Limited* coefficient in Table 4 is equivalent to approximately 20% of the aggregate increase in polarization observed among incumbent state legislators for the years 1992-2022.²⁸

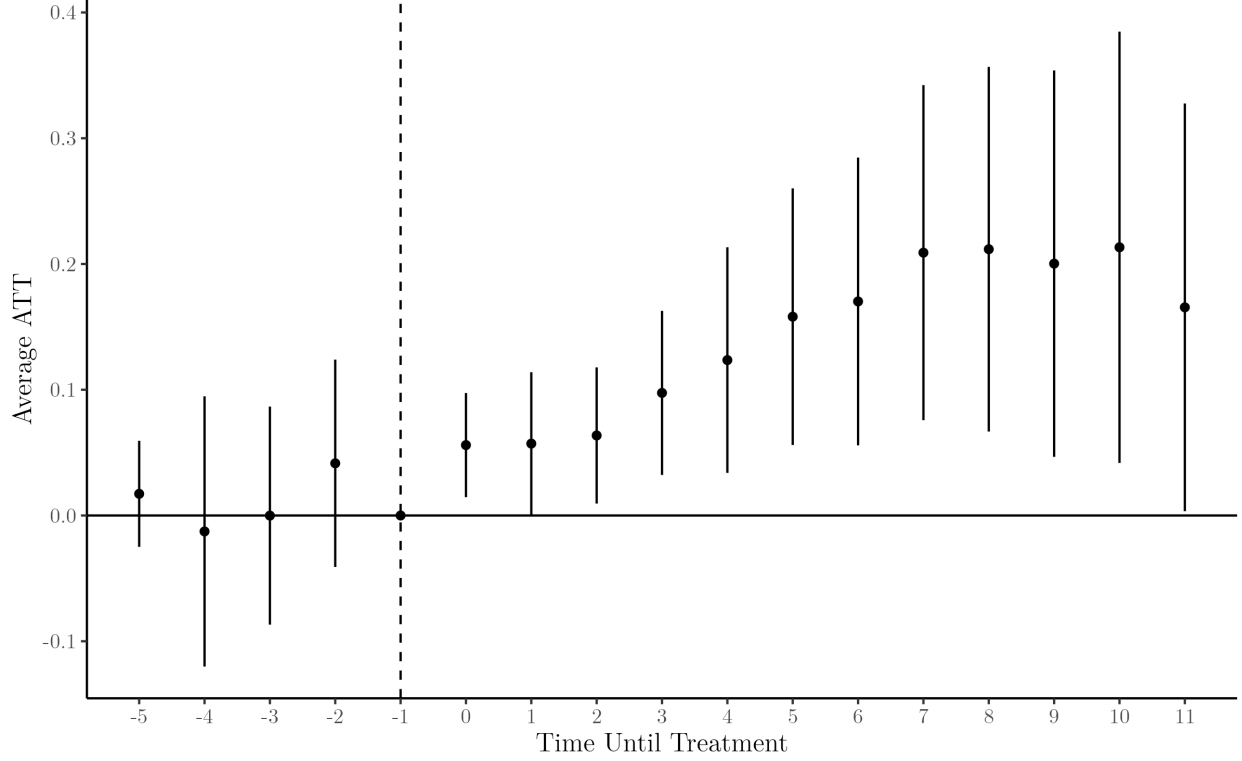
Since term limits became binding multiple elections after they were passed into law, it is important to rule out anticipatory effects. Column three tests for violations of the parallel trends assumption by including two leads of the term limits variable. If term limits become binding in time t , then they should have no effect on polarization in any future times. This is exactly what I find in column three, where the overall effect of term limits remains and the lead coefficients are small and insignificant.

Finally, in column four I include a state-specific linear time trend to absorb any unobserved state-level time trends that are associated with the timing of polarization and implementation of term limits. My conclusions remain unchanged following the inclusion of this trend.

The difference-in-differences model provides a static estimate of the effect of term limits on polarization. To obtain a time-varying treatment effect, and test for violations of the parallel trends assumption, I also run an event study. Figure 3 displays coefficients from an event study of candidate pool political polarization with 95% confidence intervals. The p -value for the omnibus Wald test of zero pre-event effects is .923, while the p -value for zero post-event effects is $< .001$. Hence, while the results are necessarily noisy, I find credible evidence of universally heightened polarization among candidate pools in term-limited states and no evidence of pre-trending.

²⁸See Appendix Figure A.1 for details on aggregate legislative polarization.

Figure 3 – Effect of Term Limits on Candidate Pool Polarization. This figure plots the average effect of term limits on legislative candidate pool polarization using a dynamic two-way fixed effect estimator. State legislative polarization increases significantly in the years following term limits’ implementation.



Note: Periods containing two or fewer states are aggregated into a single endpoint.
Baseline is t_{-1} . Robust standard errors are clustered by state.

5.1.1 Robustness of Main Results

To establish the robustness of these results, I conduct a variety of analyses using alternative estimation specifications and external measures of polarization. My results are robust across these estimates. I report the results of these analyses in the appendix in the interest of space.

In the standard difference-in-differences framework employed in Equation 1, Goodman-Bacon (2021) shows that β_1 is the weighted average of all possible two-group/two-period difference-in-differences estimates. Hence, the effect of term limits on polarization is identified by comparing i) treated states with untreated states as controls, ii) early-adopting states with late-adopting states as controls, and iii) late-adopting states with early-adopting states as controls. The third group of differences makes “forbidden comparisons” and, in the pres-

ence of staggered adoption and heterogeneous treatment effects, does not yield a traditional ATT estimate. In the extreme, state-periods could receive negative weights and produce an ATT that is incorrectly signed (de Chaisemartin and D’Haultfœuille, 2020). While the bias due to heterogeneous treatment effects is less concerning in the presence of numerous never treated units (a case likely satisfied by the 35 states that never termed-out legislators) and ignorability (also likely satisfied by the initiative-led process of term limit implementation), I nevertheless reestimate my baseline results using the heterogeneous treatment effect robust estimator proposed by Liu, Wang, and Xu (2022). This estimator imputes counterfactual control outcomes for post-treatment periods using pre-treatment data and calculates an equally-weighted treatment effect as the difference between states’ observed and imputed post-treatment outcomes. By excluding “forbidden comparisons” and enforcing equal weighting, the imputation estimator yields unbiased treatment effect estimates under heterogeneous treatment effects and staggered treatment adoption. The results of this exercise—reported in Appendix Figure F.1—closely mirror those of the dynamic two-way fixed effects specification.

Second, to ensure my results are not a scaling artifact, I reestimate my difference-in-differences design using an alternative ideology scaling. Appendix Table F.1 replicates my results using Bonica (2014) CFscores to measure legislative polarization.

Third, I reestimate my models after including a wider set of time-varying state factors that could be associated with legislative polarization, including population, unemployment rate, per capita income, income inequality, Democratic control of the governorship, and immigration. Appendix Table F.2 shows the inclusion of these controls does not alter my conclusions.

Finally, I evaluate two sources of effect heterogeneity that are suggested by the literature: heterogeneity by party and legislative chamber. In the interest of space, I report and analyze the results in the appendix. In short, I find no evidence that the effects reported above are driven by asymmetric polarization among the Republican party or that term limits differentially polarize either upper or lower legislative chambers.

Table 5 – Differential Polarization of Term-Limited Legislatures. Term Limits increase polarization among incumbent state legislators. This table replicates Table 2 from Olson and Rogowski (2020) using NP-Scores and HMH Scores.

	Polarization (NP-Scores)		Polarization (HMH Scores)	
	(1)	(2)	(3)	(4)
Term Limits	0.16 (0.07)	0.15 (0.06)	0.14 (0.03)	0.13 (0.03)
Log(Leg Prof)		0.18 (0.09)		0.13 (0.07)
Divided Government		-0.01 (0.02)		-0.01 (0.01)
Party Competetiveness		-0.30 (0.19)		-0.16 (0.15)
N	609	609	594	594
Standard Deviation	.47	.47	.38	.38
Year FEs	Y	Y	Y	Y
State FEs	Y	Y	Y	Y

Note: The outcome is the difference in party median NP-Scores (columns one and two) and HMH Scores (columns three and four). Standard errors are clustered by state in parentheses.

5.2 Effect of Term Limits on Incumbent Legislators

As the most prominent evidence of legislative polarization, I now focus on the incumbent legislators that make up the end of the electoral pipeline. Table 5 presents my overall estimates of the effects of term limits on polarization among sitting legislators. Using Shor and McCarty (2011) NP-Scores to measure polarization, Olson and Rogowski (2020) show that term limits increase incumbent partisan polarization. With the benefit of additional data, I provide an updated estimate of Equation 1 in the first and second columns of Table 5 using NP-Scores. The results of this analysis closely match those of Olson and Rogowski (2020).

Since NP-Scores are not available for non-incumbents, throughout this paper I have measured polarization using HMH Scores. To validate these scalings, I re-estimate Equation 1 in columns three and four using HMH Scores. This is possible because (nearly) all incumbent state legislators have NP-Scores in addition to HMH Scores. I find similar, if slightly atten-

uated, results in columns three and four, underscoring the potentially conservative nature of my new measure of polarization and increasing the credibility of my HMH scalings. In addition, the estimates of the effect of term limits on polarization among incumbents (Table 5) are slightly larger than the estimates for the candidate pool (Table 4), suggesting that term limits primarily polarize state legislatures by attracting a more-extreme pool of candidates, but decreased electoral selection for moderate candidates also directly contributes to polarization in state legislatures.²⁹

Since HMH Scores are, by construction, static over the course of a legislator’s career, it is possible that the effects observed in Table 5 obscure within-legislator changes in ideology in response to term limits. To evaluate this possibility, using dynamic CFscores, Appendix Table F.3 tests whether incumbents alter their ideological positions in the absence of electoral incentives by regressing candidate extremity on *Term Limited*—an indicator for whether an incumbent is serving in her final term before being termed out of office. This analysis makes within-incumbent ideology comparisons between legislators who are subject to binding term limits and those who are not. Across all specifications, I estimate a precise null effect, indicating that incumbents do not systematically alter their ideological platforms in the absence of electoral incentives. These findings match Fourirnaies and Hall (2022) and suggest that state legislators “die with their ideological boots on” (Poole, 2007, p. 435).

Overall, this section has established that a decline in the legislative news environment combines with weakened mechanisms of electoral selection to produce meaningfully elevated polarization across the electoral pipeline. I estimate that this polarizing effect is equivalent to roughly 20% of the aggregate increase in polarization in state legislatures between 1992 and 2022.

²⁹In addition to the direct effect on election outcomes, decreased electoral selection for moderate candidates likely dissuades future moderate candidates from running.

6 Conclusion

Over the past three decades, term limits have had an important impact on American state legislatures. Despite extensive research on the effects of legislative term limits on critical political outcomes and legislator incentives, we know little about how term limits affect the ideological composition of state legislatures. This article introduces new data on legislative news coverage to demonstrate changes in the legislative candidate pool and declines in voter knowledge drive legislative polarization.

Why do term limits polarize state legislatures? My analysis establishes a candidate-supply-centric pathway through which term limits polarize state legislatures. I find that, in line with research on the incumbent media advantage, newspaper coverage of legislative elections declines following the implementation of term limits. Newspaper coverage of legislative elections declines by approximately 22% on average post-term limits. I further demonstrate that these shocks to the legislative news environment translate into weakened voter knowledge about legislative politics. Voters in term-limited states are approximately 11% less likely to be able to identify the party in control of their home state legislature than their non-term-limited counterparts.

As voter knowledge about legislative politics declines, I find that the electoral return to ideological moderation in general elections is reduced by roughly half in term-limited states, reducing candidates' cost to extremity and signaling voters' inability to penalize extremist candidates. The result is a more-extreme candidate pool. As a result, I find that term limits increase polarization across the pool of candidates who run for legislative office and that these results are robust to a variety of scaling and estimation techniques. The culmination of this process is a mechanically more extreme set of general election winners and sitting legislators. This effect is equivalent to 20% of the aggregate increase in legislative polarization for the period 1992-2022.

My results—and the study of state legislative polarization in general—are important for at least three reasons. First, state legislatures are increasingly consequential policy-making

bodies. Many of today’s most controversial political issues—including abortion rights, voting access, and education policy—originate and are decided in statehouses. If term limits alter the ideological composition of state legislatures, they will also impact a host of essential policy outcomes.

State legislatures are also a key source of future members of Congress. By one count, nearly half of the members of the 118th Congress were former state legislators (Manning, 2022). Thus, policies that affect the composition of state legislatures are certain to shape policy-making and polarization at the federal level (Hall, 2019; Thomsen, 2014).

Finally, my findings have important implications for the study of legislative polarization at large. Weakened political news environments and the dwindling supply of moderate candidates are not particular to term limits or state legislatures. My results underscore the importance of attracting an ideologically representative sample of legislative candidates and strengthening the legislative news environment.

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Online Appendix

Why Do Term Limits Polarize State Legislatures?

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A Summary Statistics and Data Descriptions

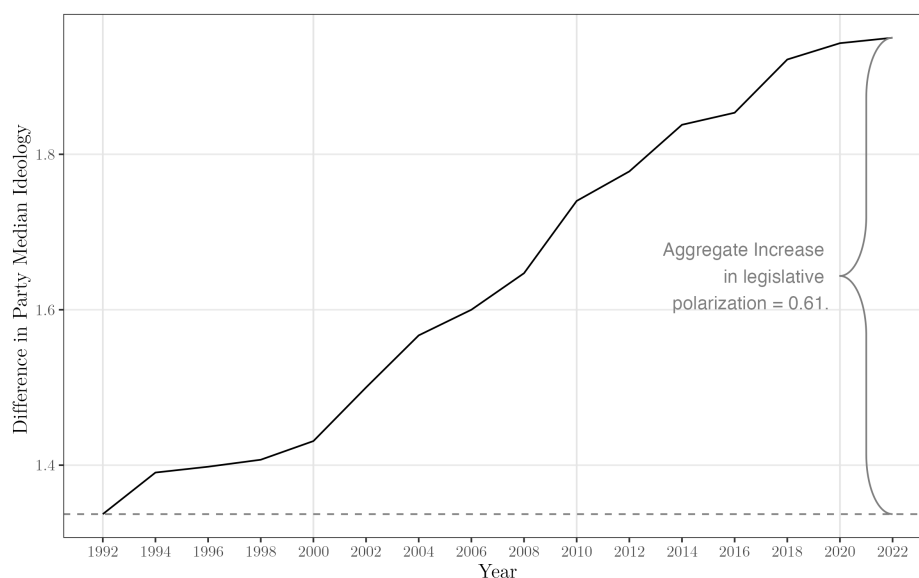
A.1 Key Variable Summaries

Table A.1 – Summary Statistics for Key Variables

Variable	Mean	Median	Min	Max	Std. Dev.
Term Limits	0.22	0	0	1	0.41
Log(Legislative Prof.)	-1.8	-1.7	-3.6	-0.46	0.57
Divided Gov.	0.46	0	0	1	0.5
Party Competition	0.15	0.12	0	0.44	0.1
Polarization (pipeline)	1.7	1.6	0.78	2.9	0.39
Polarization (general election)	1.7	1.6	0.78	2.9	0.39
Polarization (incumbents)	1.6	1.6	0.7	3	0.4
Dem. Vote Share	0.52	0.5	0	1	0.34
Dem. Win	0.5	1	0	1	0.5

A.2 Aggregate Legislative Polarization

Figure A.1 – Aggregate Legislative Polarization, Incumbents 1992-2022. This figure plots the level of legislative polarization across all 98 chambers included in this analysis. Polarization is measured as the difference in party median ideologies. Legislative polarization has increased from 1.34 to 1.95 (an increase of .61) between the years 1992 and 2022.



B Scaling Candidates Using Handan-Nader, Myers, Hall Scores

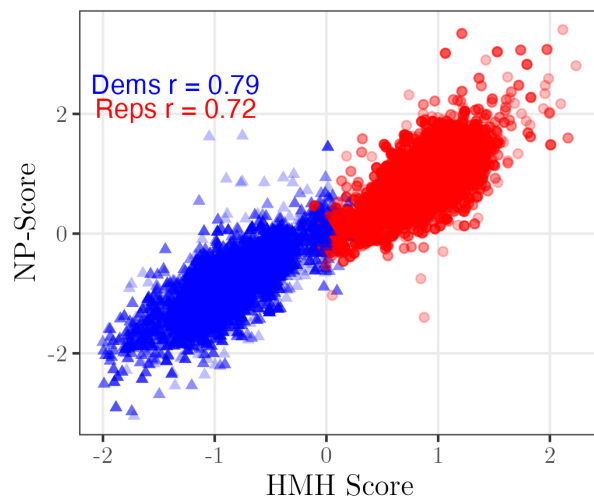
Handan-Nader, Myers, Hall Scores (HMH Scores) use supervised machine learning to learn a party-specific function $\hat{f}_p(\cdot)$ that predicts legislator i 's NP-Score after first winning office in time $t + 1$ using the donations i receives before first serving in office. More specifically, HMH Scores predict $y_{i,t+1} = \hat{f}_p(\mathbf{x}_{it}) + \varepsilon_{i,t+1}$ where \mathbf{x}_{it} is a vector of predictors for legislator i through year t . The predictive model is then applied to all state legislative candidates to derive ideological scalings for incumbents and non-incumbents alike. By restricting the contribution matrix to donations made to i before i first wins office, HMH Scores avoid potential post-treatment bias in my downstream analyses if some donors strategically contribute to candidates (Hall and Snyder, 2015).³⁰ HMH Scores are static over a legislator's career, matching the construction of NP-Scores.

As a validation exercise, Figure B.2(a) presents the correlation between HMH Scores and NP-Scores for every available incumbent-year. The correlations are high within party ($r = 0.66$ for Democrats and $r = 0.73$ for Republicans) and significantly higher than the within-party correlations between CFscores and NP-Scores (c.f., Figure B.2(b)). These results are consistent with a larger set of validation exercises performed in Handan-Nader, Myers, and Hall (2024).³¹ See Handan-Nader, Myers, and Hall (2024) for additional details on the scaling and validation process.

³⁰For example, if access-seeking interest groups donate to incumbents of both parties, the predictive model may confound electoral desirability with ideological moderation.

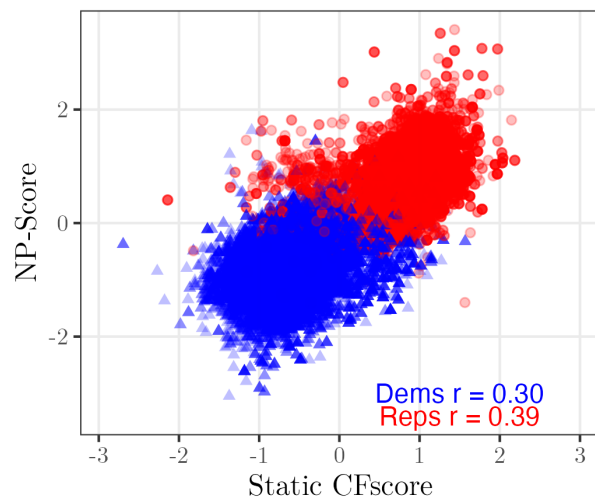
³¹Handan-Nader, Myers, and Hall (2024) use an optimal cutting-point procedure to calculate the percent of legislative votes for the years 2010-2022 that are classified correctly by NP-Scores, HMH Scores, CFscores, and legislator party. They find that HMH Scores correctly predict 90.4% of roll-call votes (APRE=.717) which is second only to NP-Scores (91.6%, APRE=.759). Since NP-Scores are calculated directly from roll-call votes while HMH Scores are constructed independently of roll-call data, the similarity of classification rates underscores the validity of the HMH scaling method in the context of state legislatures.

Figure B.2 – Correlation Between NP-Scores and HMM Scores and CFscores.
Each point in this figure represents an incumbent-year in the analysis dataset. HMM Scores correlate well with NP-Scores, even within party, and perform better than CFscores.



Party ▲ Dem ● Rep

(a) HMM Scores



Party ▲ Dem ● Rep

(b) Static CFscores

C Data and Robustness Checks for Legislative News Environment

C.1 State Legislative News Coverage Collection Procedures

Newspapers.com hosts a vast repository of local and regional U.S. newspapers. As of October, 2023, the website contained 596 million pages of newsprint for 6,627 newspapers from 1992-2022, all of which are digitized. Table C.1 reports the number of newspapers and newsprint pages that enter this corpus by state.

Using this data, I construct a measure of individual legislators’ newspaper coverage in election years, following the text-as-data approach of Hopkins (2018). To do so, I search the news corpus for references to sitting state legislators in every state’s legislative election year between 1992 and 2022.³² I define references as any article that mentions a legislator’s combined first and last name (e.g., “FIRST LAST”) or the legislator’s last name with an appropriate prefix (e.g., “state senator LAST”). To reduce the risk of false positive results, I restrict this search to newspapers within the candidate’s home state. Finally, I aggregate counts of these references to the legislator or legislator-newspaper level. The result is a measure of how often individual newspapers reference state legislators.³³

³²While news coverage of challengers and open seat candidates is undoubtedly important, due to the time-intensive nature of this task I focus this analysis on incumbents.

³³Recent work draws on machine learning methods to classify the content of news articles (e.g., Cagé, Hervé, and Viaud, 2020; Turkel et al., 2021), enabling researchers to evaluate the quality in addition to quantity of new coverage. These methods, while beyond the scope of this article, could prove fruitful in future analyses of legislative news coverage.

Table C.1 – Number of Newspapers and Pages in Corpus by State, 1992-2022.
This table reports the number of newspapers and total newspaper pages included in the news corpus by state.

State	Number of:		State	Number of:	
	Newspapers	Pages		Newspapers	Pages
AK	3	66,691	MT	21	6,812,752
AL	135	5,098,801	NC	407	11,720,065
AR	91	410,563	ND	2	996,250
AZ	14	9,875,798	NH	5	1,335,795
CA	161	42,289,744	NJ	87	18,170,278
CO	4	2,290,591	NM	30	5,631,452
CT	6	6,366,246	NV	6	2,805,647
DE	43	2,051,678	NY	50	47,997,616
FL	36	46,088,784	OH	69	24,636,316
GA	21	7,984,385	OK	771	4,007,204
HI	8	5,660,341	OR	13	4,000,690
IA	66	13,291,514	PA	144	35,638,641
ID	5	1,827,678	RI	1	136
IL	171	21,325,574	SC	34	11,212,620
IN	86	23,344,230	SD	30	2,710,751
KS	1,393	6,077,830	TN	157	12,118,670
KY	77	11,470,247	TX	68	30,182,854
LA	52	8,479,238	UT	108	5,607,505
MA	14	7,838,017	VA	17	5,981,645
MD	19	7,507,883	VT	196	3,756,570
ME	14	6,688,821	WA	27	12,736,124
MI	24	9,246,845	WI	103	20,197,122
MN	12	4,842,590	WV	8	449
MO	397	12,194,798	WY	5	1,349,823
MS	136	6,751,528			

C.2 Effect of Term Limits After Controlling for Number of Candidates

It is possible that, by including newspaper coverage of challengers in addition to incumbents, my analysis captures a mechanical increase in newspaper coverage arising when multiple candidates run for the same seat. To address this concern, Table C.2 reestimates the models in Table 2 after including fixed effects for the number of general election candidates running in each district-year. My conclusions remain the same

Table C.2 – Effect of Term Limits on State Legislative News Coverage. Local and regional newspapers write fewer articles about state legislative general election candidates following the implementation of term limits.

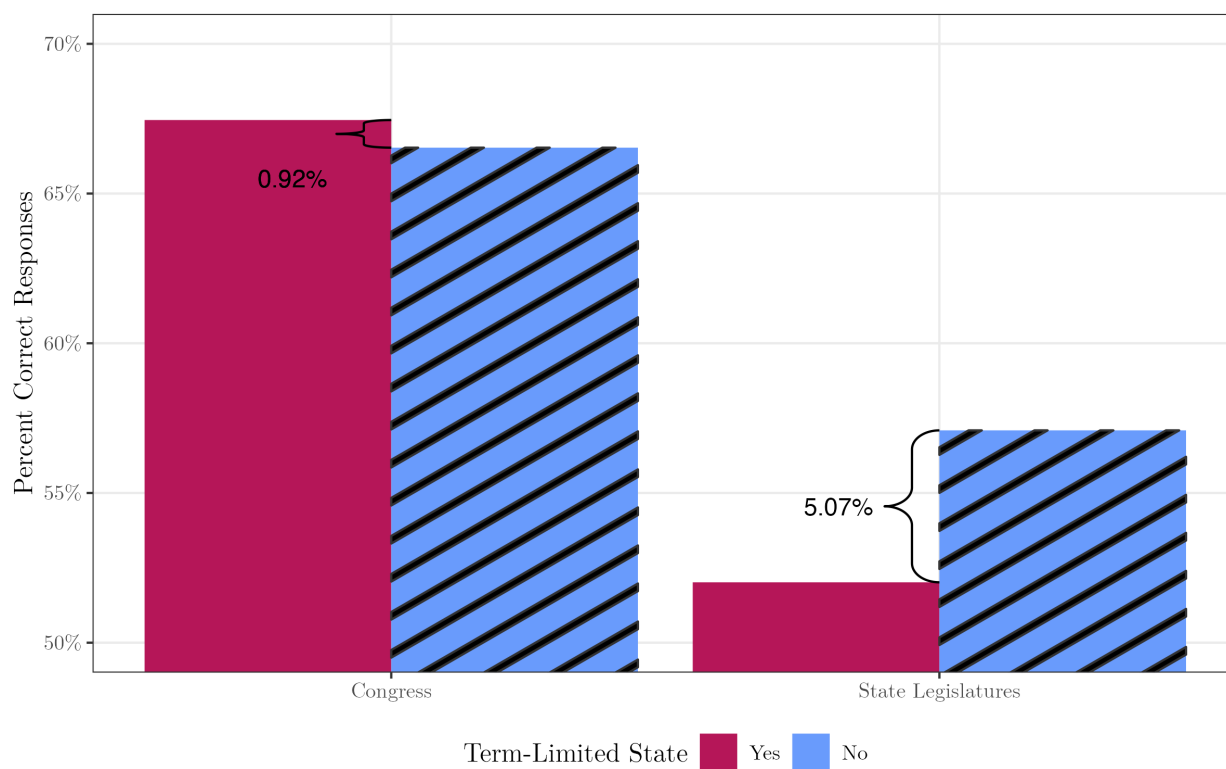
	Articles About General Election Candidates			
	District Level		Newspaper-District Level	
	(1)	(2)	(3)	(4)
Term Limited	-12.82 (6.21)	-11.34 (3.23)	-1.40 (0.37)	-1.37 (0.61)
N	116,519	116,519	489,794	489,794
Controls	No	Yes	No	Yes
Year FEs	Yes	Yes	Yes	Yes
District FEs	Yes	Yes	No	No
Newspaper-District FEs	No	No	Yes	Yes
Outcome Mean	55.08	55.08	9.87	9.87

Note: In columns one and two, the unit of analysis is the district-year. In columns three and four, the unit of analysis is the district-newspaper-year. Across all columns, the outcome is the number of references to state legislative general election candidates in local and regional newspapers. Robust standard errors clustered by state in parentheses. Controls are total population, share of seats up for election, and number of news-related interest groups.

D Robustness Checks for Voter Knowledge

In this section, I calculate the informal difference-in-differences estimate of the effect of term limits on voter knowledge in state politics. This calculation relies on the fact that the same respondents answered CES questions about their political knowledge about Congress (where there are no term limits) and state legislatures (some of which have term limits in place). The difference in correct response rates between states that had term limits in effect and those without term limits are reported in black and visualized using curly braces. Taking the difference between these values for state legislatures and congress yields my informal difference-in-difference estimate of 5.99 pp. (5.07 pp. – .92 pp.).

Figure D.1 – Percent Correct Responses to CES Voter Knowledge Questions. This figure depicts average response accuracy rates to four CES questions about party control of Congress and respondents’ home state legislatures. Respondents in term-limited states (whose knowledge about federal elections matches their non-term-limited counterparts) exhibit reduced political knowledge about their home state legislatures.



E Robustness Checks for Electoral Selection

Hainmueller, Mummolo, and Xu (2019) show that multiplicative interaction models—such as the midpoint model—often tend to erroneously assume linearity in effect and common support of the moderating variable. Figure E.2 reports the diagnostic marginal effects plots recommended by Hainmueller, Mummolo, and Xu. As the figure shows, the multiplicative interaction model appear to hold.

Figure E.1 – Marginal Effects Plot for General Election Electoral Returns. This figure plots the marginal effect of term limits on Democratic vote share and win probability in general elections. Error bars and bands represent 95% confidence intervals.

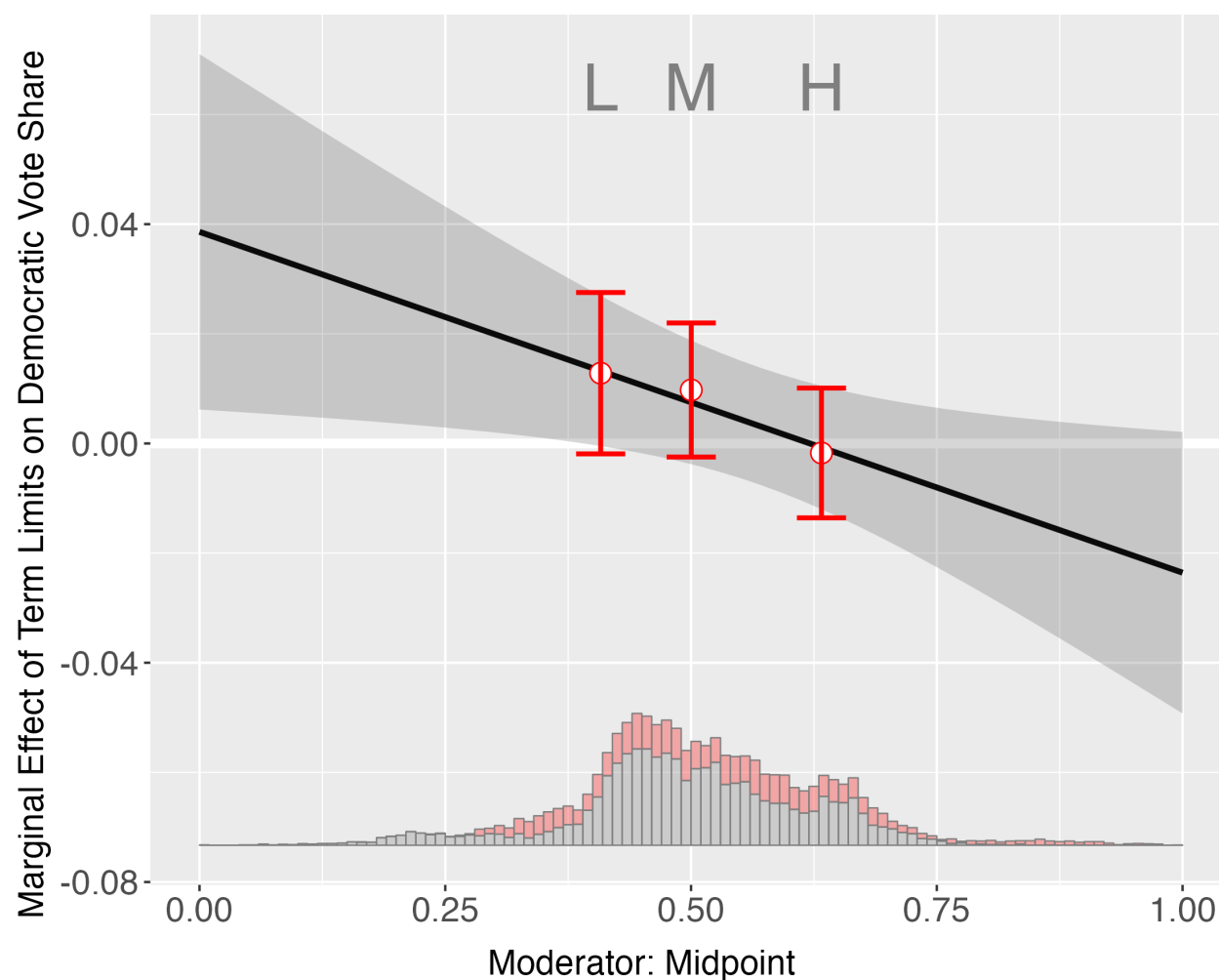


Figure E.2 – Democratic Vote Share

E.1 Electoral Selection Using CFscores

Table E.1 – General Election Electoral Selection, CFscores. These models report the expected general election electoral returns resulting from a liberal (i.e., positive) shift in candidate CFscore ideology.

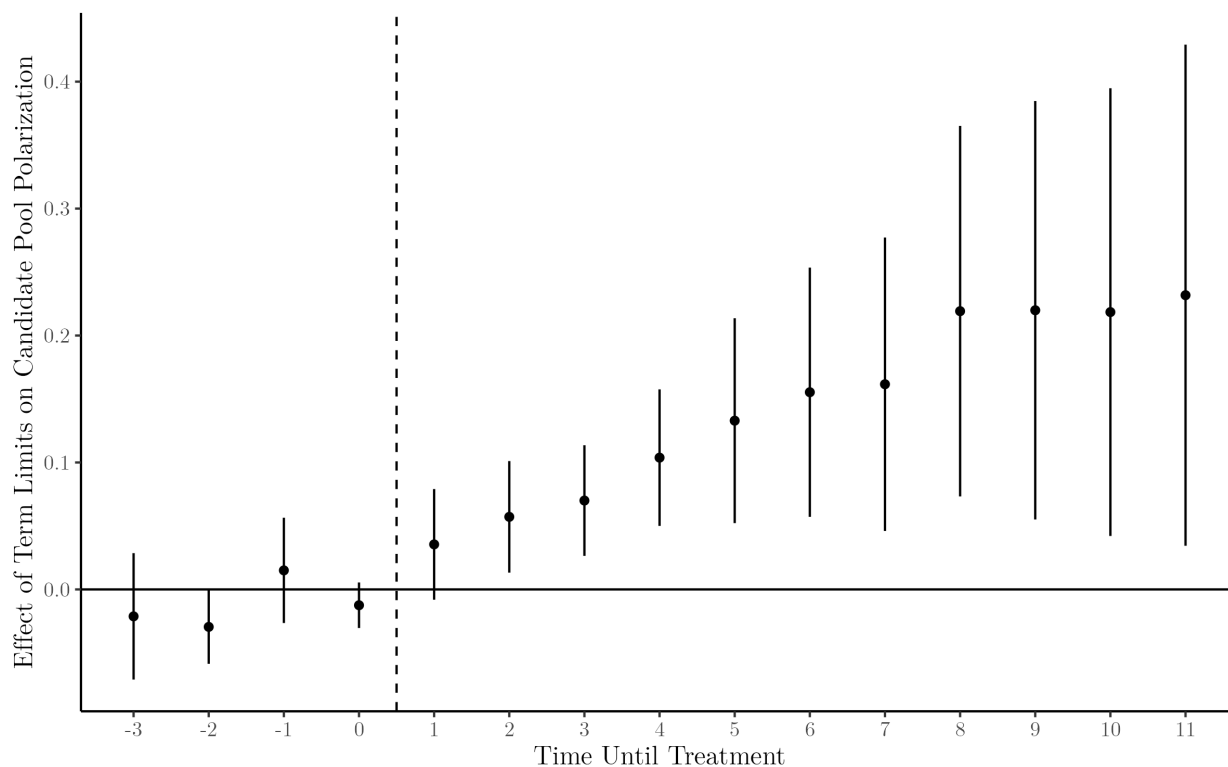
	Dem Vote Share			
	(1)	(2)	(3)	(4)
Midpoint	0.17 (0.01)	0.31 (0.01)	0.19 (0.01)	0.19 (0.01)
Term Limits		0.04 (0.02)	0.05 (0.01)	0.05 (0.01)
Midpoint · Term Limits		-0.04 (0.03)	-0.07 (0.02)	-0.07 (0.02)
Distance · Term Limits				0.01 (0.02)
Distance	-0.02 (0.01)	-0.05 (0.01)	-0.02 (0.01)	-0.02 (0.01)
Dem Contributions	0.02 (0.00)		0.02 (0.00)	0.02 (0.00)
Rep Contributions	-0.02 (0.00)		-0.02 (0.00)	-0.02 (0.00)
N	17,568	17,568	17,568	17,568
Standard Deviation	.14	.14	.14	.14
District Fixed Effects	Yes	Yes	Yes	Yes
Year Fixed Effects	Yes	Yes	Yes	Yes

Note: The outcome is either Democratic vote share or a Democratic win indicator. Robust standard errors are clustered by district in parentheses. Midpoint and Distance variables are scaled to run from 0 to 1. The sample is limited to contested general elections in single member districts.

F Robustness Checks for Polarizing Effects of Term Limits

F.1 Heterogenous Treatment Effect Robust Estimate of the Effect of Term Limits on Candidate Pool Polarization.

Figure F.1 – Effect of Term Limits on Candidate Pool Polarization (HTE Robust). This figure reports the treatment effect of term limits on candidate pool legislative polarization the Liu, Wang, and Xu (2022) imputation estimator. Periods containing two or fewer states are aggregated into a single endpoint. State legislative polarization increases significantly in the years following term limits' implementation. Robust standard errors are clustered by state.



F.2 Difference-in-Differences Estimates Using CFscores

While I prefer HMH Scores for their ability to differentiate candidates within-party and short-circuit post-treatment bias in election analyses, Table F.1 shows that my findings are substantively the same when I use CFscores from Bonica (2014)

Table F.1 – Effect of Term Limits on Polarization Using CFscores. Term limits increase CFscore polarization across the electoral pipeline. These estimates are similar to HMH Score measures of polarization (c.f., Tables 4 and 5).

	Candidate Pool Polarization	General Election Polarization	Incumbent Polarization
	(1)	(2)	(3)
Term Limits	0.13 (0.04)	0.12 (0.04)	0.12 (0.06)
N	514	514	513
Outcome Standard Deviation	.4	.41	.41
Year FEs	Yes	Yes	Yes
State FEs	Yes	Yes	Yes

Note: In all columns the outcome is the difference in party median Dynamic CFscores. Standard errors are clustered by state in parentheses.

F.3 Alternate Control Specifications

In Table F.2, I reestimate my main analyses after controlling for a wider set of time-varying state factors that could be associated with legislative polarization, including population, unemployment rate, per capita income, income inequality, Democratic control of the governorship, and immigration. My results are substantively identical.

Table F.2 – Effect of Term Limits on Polarization: Additional State Covariate Specification. The addition of time-varying district and state controls does not alter my conclusions. Results are nearly identical when controls are added one at a time.

	Candidate Pool Polarization	General Election Polarization	Incumbent Polarization
	(1)	(2)	(3)
Term Limits	0.07 (0.03)	0.05 (0.03)	0.07 (0.03)
Log(Leg Prof)	0.00 (0.03)	-0.00 (0.03)	0.02 (0.03)
Divided Government	-0.01 (0.01)	-0.00 (0.01)	0.00 (0.01)
Party Competitiveness	-0.20 (0.11)	-0.20 (0.12)	-0.19 (0.13)
Log(Population)	0.45 (0.18)	0.52 (0.18)	0.51 (0.18)
Unemployment Rate	0.00 (0.01)	0.00 (0.01)	0.00 (0.01)
Per Capita Income	0.00 (0.00)	0.00 (0.00)	0.00 (0.00)
Gini	-0.23 (0.21)	-0.28 (0.21)	0.01 (0.23)
Democratic Governor	0.02 (0.01)	0.02 (0.01)	0.02 (0.01)
Percent Population Foreign Born	-0.09 (0.02)	-0.09 (0.02)	-0.10 (0.02)
N	482	480	466
Year FEs	Yes	Yes	Yes
State FEs	Yes	Yes	Yes

Note: In all columns the outcome is the difference in party median HMM Scores. Standard errors are clustered by state in parentheses.

F.4 Incumbents' Ideological Response to Term Limits

Table F.3 evaluates whether incumbent legislators systematically become more extreme in their final term before being termed out of office. In this table, I regress the absolute value of each incumbents' dynamic CFscore on an indicator for whether they are serving in the final term before being termed-out of office. Across all specifications, I estimate a precise null effect, indicating that incumbents do not systematically alter their ideological platforms in the absence of electoral incentives.

Table F.3 – Effect of Term Limits on Within-Legislator Ideology. Legislators serving their final term before being termed out do not meaningfully change their ideology.

	Absolute Value of Incumbent Ideology	
	(1)	(2)
Term Limited	-0.0127 (0.0053)	-0.0105 (0.0052)
N	50,230	50,191
Standard Deviation	.35	.35
Legislator FEs	Y	Y
Chamber-by-Year FEs	Y	N
Chamber-by-Party-by-Year FEs	N	Y

Note: Outcome is the absolute value of candidates' dynamic CF-scores. *Term Limited* indicates when legislators are serving in their final term before being termed-out of office. Robust standard errors clustered by legislator in parentheses.

G Heterogeneity Analyses

The ideological ramifications of legislative term limits may vary according to a variety of institutional and electoral factors. In this section, I evaluate two sources of heterogeneity suggested by the literature—heterogeneity by party and legislative chamber.

Table G.1 – Asymmetric Polarization in the Candidate Pipeline. Democratic and Republican legislative candidates and incumbents do not differentially polarize in response to term limits.

	Candidate Pool Polarization		General Election Polarization		Incumbent Polarization	
	(1)	(2)	(3)	(4)	(5)	(6)
Term Limited	0.05 (0.02)	0.06 (0.02)	0.05 (0.02)	0.06 (0.02)	0.06 (0.02)	0.07 (0.02)
Log(Leg Prof)	0.02 (0.03)	0.07 (0.04)	0.02 (0.03)	0.07 (0.04)	0.03 (0.02)	0.09 (0.05)
Divided Government	-0.00 (0.01)	-0.01 (0.01)	-0.00 (0.01)	-0.01 (0.01)	0.00 (0.01)	-0.01 (0.01)
Party Competitiveness	-0.08 (0.09)	-0.14 (0.07)	-0.09 (0.09)	-0.13 (0.08)	-0.04 (0.09)	-0.11 (0.09)
N	620	619	619	616	604	605
Standard Deviation	.3	.28	.31	.28	.31	.28
Party	Dems	Reps	Dems	Reps	Dems	Reps
Year FEs	Y	Y	Y	Y	Y	Y
State FEs	Y	Y	Y	Y	Y	Y

Note: In all columns the outcome is the difference in party median Hall-Snyder Scores. Outcome is the absolute value of Hall-Snyder Scores aggregated by party. Standard errors clustered by state in parentheses.

A growing body of research explores the prevalence of asymmetric polarization in American elections. In the standard account, scholars argue that ideological polarization is disproportionately driven by rising Republican extremity (e.g Grossmann and Hopkins 2016; McCarty 2007). Recent evidence at the state level, reaches different conclusions. Olson and Rogowski (2020) find no evidence of asymmetric polarization among incumbent legislators in term-limited states. Handan-Nader, Myers, and Hall (2024) also find little evidence of asymmetric polarization among the pool of general election candidates.

In Table G.1, I re-estimate Equation 1, defining Y_{st} separately for Democrats and Repub-

licans. Unsurprisingly, I find that term limits are associated with an increase in extremity among Democratic candidates (columns one and three) and Republican candidates (columns two and four) compared to non-term-limited candidates. These findings hold across all stages of the electoral pipeline—from primary and general elections to incumbents. Across party, my estimates are extremely similar and provide no evidence of asymmetric polarization at any stage of the electoral pipeline.

Table G.2 – Effect of Term Limits on Polarization by Chamber. The effect of term limits on polarization is similar between legislative upper and lower chambers.

	Candidate Pool Polarization		General Election Polarization		Incumbent Polarization	
	(1)	(2)	(3)	(4)	(5)	(6)
Term Limited	0.10 (0.03)	0.10 (0.05)	0.10 (0.03)	0.05 (0.04)	0.12 (0.03)	0.05 (0.06)
Log(Leg Prof)	0.11 (0.06)	0.10 (0.08)	0.11 (0.06)	0.11 (0.07)	0.14 (0.07)	0.14 (0.09)
Divided Government	-0.01 (0.01)	-0.02 (0.01)	-0.01 (0.01)	-0.01 (0.01)	-0.00 (0.01)	-0.01 (0.02)
Party Competetiveness	-0.25 (0.14)	-0.24 (0.15)	-0.27 (0.14)	-0.16 (0.14)	-0.23 (0.15)	-0.06 (0.18)
N	597	539	597	534	581	462
Standard Deviation	.39	.39	.4	.39	.41	.39
Party	House	Senate	House	Senate	House	Senate
Year FEs	Y	Y	Y	Y	Y	Y
State FEs	Y	Y	Y	Y	Y	Y

Note: In all columns the outcome is the difference in party HMH Scores subsetting by legislative chamber. Robust standard errors are clustered by state in parentheses.

Second, term limits' effect may vary by legislative chamber. In Table G.2 I estimate Equation 1 separately for state legislative lower and upper legislative chambers. The effect sizes are consistent both between chambers and with the overall aggregate effect.