

# Strategic Institutional Choice: Voters, States, and Congressional Term Limits

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**Abstract:** This paper demonstrates that states' decisions on limiting congressional terms are empirically determined by measures of relative political influence in Congress. States' choices on term limits are quantified as a multiple-categorical variable that reflects variation in the stringency of term limits laws passed. Using 1992 data on the American states, the model controls for unobserved heterogeneity that is introduced by some voters having access to institutions of direct democracy. At 2002 state-level values for congressional tenure and federal spending, the model predicts approximately eight to ten additional states would choose to limit terms of their own congressional delegations, but are prohibited from doing so under a Supreme Court ruling. The results hold implications for institutional federalism and the potential passage of similar political institutions across the states.

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## 1. Introduction

This study analyzes the empirical determinants of states' decisions whether to limit the terms of their congressional delegations. The primary result is that congressional term limits are more likely to be adopted, and with greater strictness, in states whose delegations have less tenure and influence in Congress. Results also indicate that states' choices on congressional term limits depend systematically on federal spending, voters' access to direct democracy, and demographic variables from theoretical models of tenure and term limitation.

These results offer clues for evaluating the political-economic determinants of a class of institutional reforms. Term limits are unlikely to be imposed on Congress in the future because the Supreme Court ruled in 1995 that state-imposed limits violate the qualifications clause of the Constitution.<sup>1</sup> However, similar to other proposals such as national recall, balanced budget amendment, and certain types of campaign restrictions, term limitation works to constrain the power of representatives. Moreover, when states limit congressional terms there are spillover effects on other states. This is because congressional term limits would alter the distribution of political power within Congress (Friedman and Wittman 1995), which in turn would alter the redistribution of wealth among the states (Dick and Lott 1993; Dixit and Londregan 1998). These results suggest the types of strategic motivations that would exist behind voter support for proposals that limit representative democracy, particularly where the change would alter states' relative advantages in redistributive politics.

Because congressional term limits are characterized by spillover effects as well as a tension between representative and direct democracy, there are natural implications for institutional

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<sup>1</sup> *U.S. Term Limits, Inc. v. Thornton*, 514 U.S. 779 (1995). Barring a reversal on *Thornton*, amending the U.S. Constitution is the only remaining mechanism for limiting congressional terms. Bills failed in Congress in 1995 and 1997, and a constitutional convention (as under Article V of the Constitution) is unlikely in the extreme.

federalism. Throughout this paper, we invoke a common distinction between *policy* outcomes and political *institutions*. Variables such as environmental and fiscal policy are generally decided through legislative and bureaucratic representatives. In contrast, political institutions are generally decided by popular votes (i.e., initiatives and referenda to amend state constitutions). Unlike policy changes, which alter the incentives of economic agents, institutional changes alter the incentives of policymakers themselves (Landes and Posner 1975). A wealth of theory and evidence indicates that state officials strategically set policy variables. Game theoretic models of interjurisdictional competition delineate how states react to other states in setting policy (e.g., Wilson 1996; Wildasin 1988). Empirical evidence reveals strategic policymaking with regard to environmental and fiscal policy. For example, List, Bulte, and Shogren (2002) provide evidence for free-riding among states in endangered species expenditures following Reagan-era devolution of environmental regulation. In addition, Case, Hines, and Rosen (1993) show that state budgets react systematically to spending in other similarly situated states. States are especially prone to strategic interaction on policies that have pronounced spillover effects.<sup>2</sup> Based on this work, many scholars have turned to studying the welfare implications of federalized versus centralized policy choice.<sup>3</sup>

In contrast, relatively little work has explored the merits of centralized versus decentralized institutional choice. The issue is increasingly relevant, as a wave of Supreme Court decisions have recently impacted states' rights. *Thornton* centralized a mode of institutional choice that was important and popular among voters, thus strengthening representative democracy at the cost of direct democracy. In addition, a 1997 Supreme Court ruling struck down part of Louisiana's unique open

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<sup>2</sup> As noted above, states free-ride on endangered species expenditures. In contrast, List and Gerking (2000) find no strategic interaction (no "race to the bottom") in air-quality control, manufacturing pollution abatement, or certain chemical emissions. List, Bulte and Shogren (2002) note that these contrasting results suggest that strategic competition is more prevalent with environmental goods whose values have spillover effects into other states. Coates and Munger (1995) offer additional evidence in this regard, demonstrating strategic regional interaction among eight southern states in negotiating where to locate a toxic waste facility.

<sup>3</sup> Gordon (1983) presents a theory for states to "race to the bottom" in tax policy. In contrast, Oates and Schwab (1988) demonstrate conditions (e.g., more homogeneity of voters) under which decentralized policy leads to efficient allocations. Wilson (1996) outlines conditions under which environmental policy can race to the bottom or race to the top. Oates (1999) provides a review and discussion.

primary system (which frequently resulted in congressional candidates being elected during October) explicitly to avoid adverse consequences of spillover effects.<sup>4</sup> Where states are free to select institutions, there are often no spillover effects: states can choose methods of judicial selection such as the merit plan (Hanssen 2002) and impose contribution limits and ballot access restrictions on state offices (Stratmann 2004), but states generally cannot impose similar restrictions on federal offices.<sup>5</sup> Term limitation offers the opportunity to examine how states evaluate political institutions in the presence of spillover effects, toward a richer perspective on institutional federalism.

These results also address an important gap in the large empirical literature on term limitation. The most fruitful area of this work is in specifying the *consequences of* term limits on a variety of political and economic variables. For example, state legislative term limits in the early 1990s caused turnover rates to increase and average tenure to decrease, even before most legislators reached their limits, since many ran for higher office in anticipation of being forced out (Francis and Kenny 1997; Francis, Kenny, and Anderson 2000). Gubernatorial limits appear to reduce the incentive for politicians to maintain reputation, resulting in higher sales taxes, income taxes, and per-capita spending while decreasing the minimum wage (Besley and Case 1995). Crain and Johnson (2004) echo these results for term limits on chief executives in OECD countries. In contrast, relatively little evidence exists to help understand the *causes for* term limits—i.e., the political-economic conditions under which a polity will be likely to decide to limit the number of terms its representatives may serve.<sup>6</sup> Important exceptions are Friedman and Wittman (1995) and Donovan and Snipp (1996), which indicate that voter partisanship is a primary determinant of a district

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<sup>4</sup> Louisiana's system, dating to 1978, declared candidates who won 50 percent of the votes in a contested primary the winner without a general election. The Court ruled that this conflicts with federal statutes establishing a uniform election day with the purpose of preventing earlier elections from influencing later voters. *Love v Foster* 522 U.S. 67 (1997).

<sup>5</sup> However, states' decisions on redistricting and apportionment are often superceded by the federal government's interest in protecting racial equity under the Voting Rights Act (*Shaw v. Reno* 509 U.S. 630, 1993). Crain (1999) and (2001) provides empirical evidence on the fiscal consequences and constitutionality of racial gerrymandering.

<sup>6</sup> Similarly, while most research on item-veto considers its effects, de Figueiredo (2003) empirically models the conditions under which states will adopt the item-veto; i.e., the choice of institution is the dependent variable.

supporting state-legislative and presidential term limits. Yet no study has successfully specified the empirical determinants of states' support for *congressional* term limits, which are distinguishable from limits on other offices in two regards. First, Senators and Representatives are the only type of elected office in the United States not subject to term limits. Second, compared to limits on local or state offices, congressional term limits are more likely to introduce spillover effects through the impact on redistributive politics. Hence, the results in this paper complement this sizeable literature with results on the *causes for* congressional term limits.

## **2. Congressional Term Limits: Background and Previous Work**

An upsurge of populism in the early 1990s created a period of institutional change across the states.<sup>7</sup> Most visible among these changes were limits on congressional terms. Colorado voters were first, voting in 1990 to limit House and Senate members to three and two, respectively, consecutive terms in office. In 1992 fourteen states limited congressional terms, and another seven states followed suit in 1994. In April 1995 New Hampshire became the twenty-third and final state to pass congressional term limits. More states might have followed, but in May 1995 the Supreme Court ruled these laws unconstitutional. Thus, unlike other populist institutions that spread across the states over long periods of time (e.g., gubernatorial limits or citizen initiatives), congressional term limits occurred mostly during the 1992 and 1994 general elections.

Among the states there is a strong correspondence between the presence of direct democracy and the choice to limit congressional terms. For example, voters can use the citizen initiative in 24 states, and 22 of those states voted to limit congressional terms (Illinois and Mississippi being the exceptions). Also, 21 of the 23 states passed congressional term limits via the citizen initiative (Utah and New Hampshire did so via state legislatures). Thus, direct democracy was the main institutional

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<sup>7</sup> Between 1990 and 1996, 21 states enacted state legislative limits. Nine states enacted stricter gubernatorial term limits in 1992 and 1994. Mississippi enacted a statewide initiative in 1992.

vehicle for states passing term limits prior to their being ruled unconstitutional.

The issue of term limitation continues to motivate a large literature, of which several studies empirically estimate voting support for term limits.<sup>8</sup> As noted, Friedman and Wittman (1995) and Donovan and Snipp (1996) find that partisanship was a primary determinant of a district supporting term limits; however, their studies focus on state-legislative and presidential limits. López (2002) estimates support for congressional limits, but focuses on how legislators voted when the issue was defeated in Congress. Tabarrok (1996), López (1996), and Clain and Mao (2003) all estimate support by voters for congressional term limits. However, Clain and Mao (2003) exclude direct democracy from the model and Tabarrok's (1996) sample excludes the last eight states that limited terms. Moreover, these previous attempts to specify state support for congressional term limits were plagued by endogeneity between term limits and voters' access to direct democracy. There is a near one-to-one correspondence between states that passed term limits and states where voters can use the citizen initiative. Understandably, in previous results the direct democracy variable dominated explanatory power. This is troublesome because it leaves only the inference that a state would pass term limits simply if it had the initiative process, a conclusion at odds with a wealth of theoretical scholarship on term limitation.

Our approach to this estimation problem is twofold. First, we recognize that states passed term limits laws of varying stringency: some states were strict, others lenient. So we quantify the decision on term limits as a multiple-category dependent variable, unlike previous studies that used a dichotomous coding. Second, we control for unobserved heterogeneity by estimating a two-stage model that instruments for direct democracy to control for upward bias in its coefficient estimate. The results from this model indicate that states' choices on congressional term limits depend systematically on measures of relative influence in Congress—specifically tenure, leadership position, and federal spending by state—as well as other variables predicted by theoretical models of

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<sup>8</sup> López (2003) provides a survey of the term limits literature.

tenure and term limitation. Direct democracy plays an important empirical role in our estimations, but does not dominate explanatory power. Our results are more supportive of theories of term limits, indicating that strategic interaction explains states' decisions whether to limit congressional terms.

### **3. Theory: Why States Would Unilaterally Choose Congressional Term Limits**

Term limitation is an institutional mechanism that affects the tenure-turnover tradeoff facing voters when using the electoral mechanism—i.e., when choosing candidates for office. Voters benefit in certain ways from low turnover among elected officials. A state governor with considerable time in office has gained valuable job experience, has become adept as the ambassador of the state, and has familiarity to voters in times of crisis. A U.S. senator, as she accumulates tenure in office, can more effectively represent the state's interests to Congress. With more experience, better committee assignments, and seniority (tenure relative to other senators) she can direct more benefits to the state—for example, greater transfers net of taxes.

Voters can also be harmed by high tenure. The governor, senator, or other elected official with increasing tenure may accumulate skills at dissuading effective challengers, and use this electoral security to enrich their own and favored parochial interests. If political entry barriers become sufficiently high, voters may discover that removing their highly-tenured politicians is intractable; the incumbent advantage is too great, even in the face of poor job performance, shirking, scandal, or simply the presence of an attractive challenger.

The optimal tenure of elected officials occurs where the marginal tenure cost equals the marginal turnover cost (Adams and Kenny 1986). Term limitation is a mechanism for approaching optimal tenure in polities that experience or anticipate excessive tenure costs. In 38 states, for example, voters have decided to impose some form of term limit on governors. Voters in these states implicitly volunteered for the costs of higher turnover in exchange for lower tenure costs.

A similar type of voter calculus presumably underlies the unilateral decisions by 23 states to

limit congressional terms. However, unlike gubernatorial or state-legislative limits, states' decisions on congressional limits are interdependent, in that the tenure and turnover costs of one state depend systematically on the tenure and turnover costs in other states. Consider a state whose congressional delegation has accumulated relatively high average tenure. Members from this state hold leadership positions, rank high on valuable committees, and bargain strongly in logrolling. This delegation has a high degree of representative capital relative to members from other states. Consider instead a state with many junior members occupying the rank and file of the seniority system. This delegation has relatively low representative capital. States with relatively high representative capital are advantaged in acquiring net transfers. Thus, term limits would impose greater turnover costs on the state with relatively high representative capital. In short, voters face a strategic decision when considering optimal tenure and term limits for congressional office.

Universal term limits—which would occur if all states agreed to limit, or if Congress term-limited itself—may be welfare enhancing if tenure costs exceed the collective optimum for all states. In a transfer society, excessive tenure exacerbates the political shirking problem, the magnitude of government spending, and the associated deadweight losses created in the economy. By this reasoning, reducing average tenure in Congress would entail efficiency gains.<sup>9</sup> Voters could agree to keep tenure from becoming excessive. However, the election mechanism fails to enforce the agreement: voters are better off reelecting their own incumbent to protect relative tenure and free ride off voters who replace their delegation. Universal term limits are a means to solve the dilemma (Dick and Lott 1993).

The free-rider explanation fits state-legislative term limits, which are universal. The extension to congressional term limits is less clear because states act unilaterally. When a state unilaterally limits the terms of its own representatives, it loses relative representative capital and net

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<sup>9</sup> The empirical evidence indicates at best a weak relationship between tenure and spending. See Sobel and Wagner (1998); Aka, Reed, Schansberg, and Zhu (1996); and Reed, Schansberg, Wilbanks, and Zhu (1998). On this basis, López (2003) critiques the efficiency argument for term limits.

transfers. The decision is similar to choosing the low-payoff in an off-diagonal cell of a prisoners' dilemma. Several possible explanations exist. Voters could have been signaling voters in other states their willingness to cooperate, perhaps engaging in Stackelberg leadership in hopes that other states would subsequently limit their delegations. The first movers were states where voters have access to direct democracy mechanisms (e.g., citizen initiative). When nearly all states with citizen initiative had passed term limits, the Supreme Court ruled them unconstitutional. *Thornton* halted what may have become a trend toward states without the initiative process choosing to limit terms: New Hampshire was the last state to limit congressional terms (just weeks prior to the Supreme Court ruling) and only one of two states to do so by a vote in the state legislature. Without observing which additional states would subsequently limit terms, the cooperative signaling explanation cannot be tested.<sup>10</sup>

Other explanations present testable alternatives. First, risk-averse voters in states with highly diverse populations may benefit from term limits, not for the reduction in tenure, but for the increased frequency of open-seat elections (Glaeser 1997; Tabarrok 1994, 1996). A risk-averse group prefers being in power half the time to a one-half chance of never being in power. In more polarized states, a set of interests will experience greater disutility from any other set of interests being in power. Thus, groups in more diverse populations could be more likely to agree to limit their own terms, if only as a means to ensure that other groups are also limited.

Second, term limits may complement rational ignorance. Information costs about incumbents and candidates are approximately equal across the states, but voters' incentives to gather information, or their ability to process a quantity of information toward rational choices, can vary with education levels. By this reasoning, a more educated electorate is less in need of a substitute for elections and, therefore, less likely to choose term limits (Adams and Kenny 1986).

Third, voters' ideological or demographic characteristics may influence their preferences for

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<sup>10</sup> The empirical application below is used to predict by simulation which states would have passed term limits.

congressional term limits. Since term limits were widely expected to bring about a smaller government, more conservative or populist electorates would have been more likely to pass term limits. Voter ideology may be measurable with roll call voting records of a state's House members, or party identification such as presidential vote shares.

Fourth, voters' decisions on term limits may depend on extant transfers and representative capital. States with greater federal spending would have more to lose if term limits decrease the size of government. On the other hand, voters preferring limited government may perceive high rates of federal spending as indication of the deadweight loss associated with tenure costs. Measures of a state's transfer portfolio could include highway spending, defense spending, and/or federal funds in general. Similarly, states with high relative representative capital have more to lose with term limits, particularly when unilaterally chosen. An electorate whose representatives have higher average tenure, or more leadership positions, should be less likely to pass term limits.

Finally, direct democracy played a key institutional role. The empirical application below treats the selection of term limits as a multi-category variable and controls statistically for the presence of initiative in a state.

## **4. Empirical Model**

### ***4.1. Citizen Initiative***

Since the citizen initiative (henceforth "*CI*") played a key institutional role, it is necessary that the estimation of the determinants of *TL* includes this variable. However, including *CI* as an explanatory variable may introduce endogeneity bias into the estimation if *CI* (or another measure of direct democracy) is determined by many of the same factors that contribute to a state's probability of having term limits.<sup>11</sup> As long as these factors are observable to the researcher, there will be no

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<sup>11</sup> Endogeneity bias can arise because of a number of specification issues such as sample selection, omitted variables, and unobserved heterogeneity. The source of bias in states' choice of term limits is perhaps best conceived as arising from unobserved heterogeneity because we expect that unobservable measures that vary over sample units impact both the dependent variable and at least one of the independent variables, namely *CI*.

estimation bias. However, if some of these factors are unobservable, then biases can arise. For example, assume the researcher wishes to run a simple regression of *TL* on the existence of *CI* by state. Also assume that another variable exists, e.g., “*preference by the inhabitants of a state for public control of the state’s political institutions,*” which has a positive effect on *CI* in that state and also has a positive impact on *TL*. If this factor is unobserved, then the coefficient on *CI* in this regression will be biased upward, since this coefficient will also capture the influence on *TL* of the unobserved factor.

In fact, states adopted *CI* primarily through statewide popular votes (Matsusaka 2004). Since *CI* was determined by the same political mechanisms and social processes that shape *TL*, there is a theoretical basis for expecting *CI* and *TL* to be endogenously selected (Shvetsova 2003). Examining results in previous studies reveals also an empirical basis for endogeneity. Earlier work had difficulty calculating reliable estimates because the *CI* variable would swamp the effects of the other explanatory variables, leaving room only for the interpretation that states with direct democracy would be the states with congressional term limits. This conclusion disregards the theoretical motivations for term limits discussed earlier in this paper. We interpret the dominance of the *CI* variable as reported in other work as upward bias of its coefficient estimate. Our approach is to control for this endogeneity, allowing for more theoretically and empirically plausible findings based on unbiased estimates. To accomplish this, we need to construct a consistent estimate of *CI* that is purged of endogeneity bias for use as an explanatory variable in a regression of term limits on its determinants.

One obvious approach to controlling for endogeneity bias is an instrumental-variables-type estimation. In such an approach, an instrument, correlated with *CI* but uncorrelated with the unobserved factor(s), is used in place of *CI* in the term limit regression. To obtain such an instrument for *CI*, we estimate the logistic regression model given in equation (1).

$$(1) \quad \log [CI_{i0}/CI_{i1}] = \gamma_0 + \gamma_i X_i + \theta_i Z_i + \mu_i$$

The dependent variable is the log odds of state  $i$  having the citizen initiative versus not having it.  $\gamma_0$ , the vector  $\gamma_i$ , and the vector  $\theta_i$  are parameters to be estimated.  $X_i$  is a vector of independent variables, and the vector  $Z_i$  represents the variables to be used as instruments. The components of  $Z_i$  will also serve as exclusion restrictions to identify equation (1) from the term limit regression discussed below; these instruments/restrictions will be discussed in the next section.<sup>12</sup> The term  $\mu_i$  represents the error term, containing all unobserved determinants of  $CI$ , and is assumed to have logistic distribution. Equation (1) is a reduced-form expression which can be used to generate predicted probabilities for  $CI$ . These predicted probabilities will be purged of endogeneity bias and can be used as exogenous regressors in the term limit regression. Specifically, the predicted value for  $CI_i$  (denoted  $\hat{C}I_i$ ) equals the predicted probability that state  $i$  will have term limits computed using the estimates from equation (1) and will be bounded by 0 and 1.

#### **4.2. Dependent Variable**

The most direct way to measure states' choices on congressional term limits would be a binary variable coded 1 for states that passed term limits and zero otherwise. Such binary coding would ignore important variations in the stringency of the laws as passed. Nevada's law, for example, was quite stringent, allowing just three House terms and two Senate terms for life. In contrast Utah's law was relatively lax, allowing multiple stays of six consecutive terms in the House and two consecutive terms in the Senate, following a one-term absence from office. Previous estimates of states' decisions on congressional term limits have used a binary dependent variable, ignoring variations in the stringency of the laws passed (López 1996; Tabarrok 1996; Clain and Mao 2003).

Table 1 lists the length and waiting period required under each state's term limits law. The

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<sup>12</sup> Notice that equation (1) does not attempt to model the process by which a state adopts  $CI$  (an issue that is beyond the scope of this paper). The first stage merely attempts to obtain an instrument for the second stage.

states naturally fall into three groups of approximately equal stringency. The most stringent group consists of lifetime term limits, typically of six and eight years in House and Senate, respectively. The moderate group lets individuals return to office after a waiting period roughly equal to the term allowed in office. Finally, the weak group allows more generous stays in office and lets individuals return to office after sitting out just one term.

[INSERT TABLE 1]

This grouping suggests a multiple-category dependent variable, abbreviated  $TL$ , which is coded as follows:

$$\begin{aligned}
 TL &= 3 && \text{for "strong term limits"} && (n= 7); \\
 &= 2 && \text{for "moderate term limits"} && (n = 8); \\
 &= 1 && \text{for "weak term limits"} && (n = 8); \\
 &= 0 && \text{for "no term limits"} && (n = 27).
 \end{aligned}$$

We estimate the determinants of  $TL$  in the following multinomial logit regression framework.<sup>13</sup>

$$(2) \quad \log [TL_{ij}/TL_{i0}] = \beta_{0j} + \beta_{1j}\hat{C}I_i + \beta_{ij}X_i + \varepsilon_{ij}$$

The dependent variable is the log odds that state  $i$  will choose term limit option  $j$  ( $j = 1, 2,$  and  $3$  defined above) relative to no term limits.  $\beta_{0j}$ ,  $\beta_{1j}$ , and the vector  $\beta_{ij}$  are parameters to be estimated and  $X_i$  is a vector of independent variables discussed in the next section. Note that the estimated coefficients will vary across term limit options.  $\hat{C}I_i$  is the predicted probability of state  $i$  having term limits generated by the results from equation (1) discussed above. The error terms,  $\varepsilon_{ij}$ , represent the unobserved determinants of term limit choice and are assumed to independently and identically distributed as log Weibull.

### 4.3. Specification

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<sup>13</sup> It may appear as though the appropriate estimator is ordered logit, which applies when all choosers believe that the higher categories of the dependent variable impart greater utility. This is not the case with the current variable since different states will order the categories of  $TL$  differently in value. That is,  $TL$  is ordinal in the stringency of term limits passed, but not ordinal in utility.

Twenty-four states have adopted the citizen initiative: fourteen during the years 1898-1918; four more between 1959 and 1970; and one in 1992. The initiative's origins are tied closely to the Populist and Progressive movements that began in the 1890s.<sup>14</sup> Yet there is little scholarly evidence on the empirical determinants of *CI*.<sup>15</sup> Using longitudinal data, Oakley (1994) estimates the probability of adoption, by state, in each biennium, from 1882 through 1990. Dynamically estimating the determinants of states adopting *CI* is beyond the scope of this study. Our interest is in generating a statistical instrument for *CI*. To that end, we select the  $Z_i$  variables such that they are theoretically plausible determinants of *CI* but are not expected to affect a state's decision on congressional term limits:

- *STATESIZE*, geographic area of state in square miles;
- *SALARY*, salary per annum of state representatives; and
- *GOVERNOR*, binary variable coded 1 for states with gubernatorial term limits.

Voters in geographically larger states may have a stronger preference for *CI* due to greater costs of monitoring legislative activities. States with higher paid legislatures may feature more constitutional constraints on legislative power such as *CI*. Finally, states with gubernatorial term limits will likely consist of voters more in favor of *CI*. Note that these variables are independent from the strategic interaction of states in seeking net transfers from Congress. Thus, these variables can be used to estimate *CI* and are not expected to have an effect on *TL*.

The exogenous  $X_j$  variables are chosen to measure the theoretical explanations for *TL* discussed earlier: voter heterogeneity; voter education; voter ideology; the strategic costs of term limits; and direct democracy.

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<sup>14</sup> In addition to citizen-initiated legislation and constitutional amendment, other reforms of the Populist and Progressive movements included women's suffrage, secret ballots, direct election of U.S. senators, recall, and primary elections.

<sup>15</sup> Most research considers the fiscal impact of direct democracy; e.g., Matsusaka (2000), Feld and Matsusaka (2003), and Crain and Oakley (1995). Additional work focuses on voter competence and the influence of money on the vote outcomes in initiatives and referenda (e.g., Matsusaka 2004).

- *POPENSITY*, a state's 1992 population per square mile of land area; proxies voter heterogeneity.
- *EDUCATION*, percent of state population with college degree; proxies voter education.
- *NOMINATE*, mean of House members' DW-NOMINATE (Poole and Rosenthal 1997) scores by state; proxies voter ideology.
- *PEROT*, percent of presidential vote share going to H. Ross Perot in the 1992 election; proxies voter ideology and, since Perot voters were widely cited as favoring congressional term limits, also measures a stronger preference for *TL*.
- *FEDERALFUNDS*, federal spending per capita<sup>16</sup>; the extent to which a state's delegation brings in federal spending.
- *TENURE*, average tenure of House and Senate delegations to Congress; measures relative seniority held by a state's delegation.
- *LEADERS*, index of leadership positions held by a state's delegation; measures relative parliamentary power held by a state.<sup>17</sup>
- $\hat{CI}$ , predicted values from equation (1).

[INSERT TABLE 2]

Definitions, sources, and descriptive statistics for all variables appear in the Table 2.

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<sup>16</sup> This is a broad measure of federal spending. According to the Economics and Statistics Administration, which reports the data, *FEDERALFUNDS* "includes Federal Government expenditures for grants to state and local governments, salaries and wages [to federal employees], procurement, direct payments for individuals, and other programs for which data are available by state and outlying area."

<sup>17</sup> In House, *LEADERS* = 0 + 1 for each committee chairman or ranking minority member; + 2 for a whip position; + 3 for minority leader; + 4 for speaker or majority leader. In Senate, *LEADERS* = 0 + 1 for each committee chairman or ranking minority member; + 2 for a whip position; + 3 for minority leader; + 4 for majority leader. Notice that this construction of the variable restricts the relative values of the various types of leadership positions (e.g., a majority leader is valued at four times a committee chair). This assumption could be avoided by using separate variables measuring the number of each type of leadership position in a state's delegation. However, due to small sample, we are limited by degrees of freedom in the model. Alternatively, we could simply count the number of leadership positions by delegation, thus imposing the opposite restriction that all leadership positions (majority leader, committee chair, etc.) are of equal value. What *LEADERS* really attempts to measure is the value of the state's congressional delegation. Toward that objective, we instill some variation that approximates well known, if tacit, rankings of types of leadership positions.

## 5. Results

Table 3 presents the results from an estimate of equation (2).<sup>18</sup> Multinomial logit calculates a set of parameter estimates for each category of the dependent variable. Each coefficient estimate reports the effect of the independent variable on the log-odds that the dependent variable takes the value of the relevant category relative to the base category of 0 or “no term limits.”<sup>19</sup> *POPDENS*, for example, exerts a positive and statistically significant influence on *TL* falling in category 1; however, in categories 2 and 3 the effect is insignificant with negative sign. This suggests that observed voter heterogeneity contributes to a state selecting weak term limits, but that its influence diminishes for moderate and strong term limits. Similarly, the ideology of the electorate, as measured by *NOMINATE*, matters to weak and moderate but not to strong term limits.

[INSERT TABLE 3]

Four variables explain a state’s selecting term limits of any stringency. *EDUCATION* is negative and significant in all categories, confirming Adams and Kenny’s (1986) prediction that more educated electorates have less need for term limits. *PEROT* is positive and significant for all categories, which is as expected given that Perot voters supported limits on congressional terms. *TENURE* is negative and significant for all categories, indicating that voters in states whose congressional delegations had high seniority were less likely to want any form of term limits. The

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<sup>18</sup> The first-stage results appear in Appendix A. The instrumental variables are jointly and individually significant. The pseudo- $R^2$  is a healthy 0.560 and the correlation coefficient between  $CI$  and  $\hat{CI}$  is 0.796. As required for identification, the exclusion restrictions are jointly significant in the first-stage estimation of equation (1). Further evidence of the appropriateness of the exclusion restrictions involves the testing of over-identifying restrictions by comparing the estimates of equation (2) to estimates of a reduced-form version of equation (2) including all but one of the exclusion restrictions. Under the null hypothesis of valid exclusion restrictions, the two estimates of equation (2) will not be statistically different. Testing the null hypothesis involves a chi2-test on the additional variables. The chi<sup>2</sup>-statistic is 2.84, and we cannot reject the null at any conventional level of significance. Thus, the exclusion restrictions have statistical support in addition to the theoretical support discussed above.

<sup>19</sup> The standard errors of the second-stage estimation should be corrected for the inclusion of a predicted value (instrument) as a regressor. We attempt this correction via bootstrapping. However, possibly due to the small sample size, the bootstrapped standard errors are extremely large (on average 100 times as large as those from the mlogit), resulting in no statistical significance in the model. As a consequence, we report the standard errors from the second-stage estimation; they should be viewed with this in mind.

empirical role of *TENURE* supports the theory that states' tenure and turnover costs are interdependent; i.e., that the decision whether to limit terms is strategic. This property is also reflected in the estimates on *LEADERS*: states with more leadership positions are less likely to want term limits, confirming the expectation that states protect their relative representative capital.

In contrast, states with greater *FEDERALFUNDS* are *more* likely to pass weak or moderate term limits. This goes against the hypothesis that states protect the extent of wealth transfers being received, but instead indicates that voters wanting smaller government may view high government spending as indication of the deadweight loss associated with high tenure costs. *FEDERALFUNDS* is insignificant in category 3, however, indicating that voters' willingness to constrain representatives goes as far as moderate but not as far as strong term limits. Lastly, the predicted values from the first-stage logit are positive and significant for all categories.

Overall the estimation shows that direct democracy is important to the passage of term limits, but that *CI* is not the entire story to be told. Constructing the dependent variable as multi-categorical to capture variations in the stringency of term limits, plus controlling statistically for the presence of direct democracy, allows for more substantive findings to unfold. In particular, the results in Table 3 highlight an awareness at the state level of the strategic costs of making institutional changes that affect policies and wealth transfers made at the national level.

### ***5.1. Simulations***

As with any nonlinear estimation, the multinomial logit coefficient estimates reported in Table 3 can indicate the direction of the effect, but they can tell us little about magnitude. To measure marginal effects of the independent variables, we could evaluate the impact of changes in the independent variables at the sample means. Alternatively, one could simulate changes in these variables for each state and then compute the aggregate effect on the entire sample. Simulating marginal effects is more appealing than measuring the effects at sample means because a simulation incorporates information on the entire distribution of outcomes instead of just the mean. To provide a

clearer sense of the magnitude with which the  $X_j$  variables influence  $TL$ , Table 4 presents results from simulated ceteris paribus changes in each of the independent variables.

In the top section of Table 4, we report the mean “baseline” probabilities for each category of  $TL$ , as predicted by the results in Table 3.<sup>20</sup> The baseline probabilities are computed in the following manner. First, from the estimated coefficients presented in Table 3, we calculate the predicted probabilities that each state falls into each category of  $TL$ . Second, we take these predicted individual probabilities and compute a mean for the entire sample. To compute the simulated changes, we modify a particular explanatory variable and then recalculate the predicted probabilities of  $TL$  for each category and state. From the new predicted probabilities, we compute the new fifty-state mean for each category. In the middle section of Table 4, we report the predicted mean probabilities after simulating a 10 percent increase in each independent variable. In parentheses appears the change in the number of states in each category as compared to the baseline probabilities.

[INSERT TABLE 4]

For example, if *POPENSITY* were to increase by 10 percent, the mean predicted probability that  $TL = 0$  changes from 0.540 to 0.537. This translates as a decrease in the expected number of states with no term limits of 0.13.<sup>21</sup> This decrease is exactly offset by the combined expected changes to categories 1 (increase of 0.85 states), 2 (decrease of 0.47), and 3 (decrease of 0.25). Thus, if *POPENSITY* increased by 10 percent, the model predicts some movement into category 1 (weak term limits) and away from all other categories. With the exception of *NOMINATE*, the magnitude of *POPENSITY* is small relative to the other variables in the model. Consider *EDUCATION*, for example. A 10 percent increase would result in 7.7 more states predicted to choose category 0 (“no term limits”), with the largest change occurring in category 3 where only 3.27 states would remain with strong term limits. The other exogenous variables influence  $TL$  with similarly large magnitudes,

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<sup>20</sup> The predicted baseline probabilities for each state appear in Appendix B.

<sup>21</sup> Although actual changes in the number of states would have to take on discrete values, we report the changes to two decimal places to facilitate comparisons among variables.

although some in different directions.

As a means of evaluating the effect of changing *CI*, we also simulate a 10 percent change in the  $\hat{CI}$  instrument, even though a *ceteris paribus* change would only take place through a change in  $Z_i$ . The results corroborate our earlier conclusion that *CI* is important empirically, but its marginal impact does not swamp that of the exogenous variables.

The variables *FEDERALFUNDS* and *TENURE* are of special interest because of their policy relevance. By our 10 percent simulations, an increase in federal spending would result in fewer states expected to choose category 0; whereas *more* states would choose category 0 if there were an increase in congressional tenure. To complement the 10 percent simulations, we also simulate results at the actual 2002 values for *FEDERALFUNDS* and *TENURE*. These results are listed in the bottom section of Table 4. The descriptive statistics in Table 2 indicate that average real federal funds *increased* from \$4.82 to \$5.69 billion, and the tenure of the average delegation *decreased* from 22.36 to 12.60 years. At these 2002 levels, the model predicts relatively large movements out of category 0. At 2002 values of *FEDERALFUNDS*, a predicted 7.9 additional states would have some form of term limits. Most of these would choose weak or moderate, indicating that voters are willing to constrain representatives but not as much as with “strong” term limits. At 2002 values of *TENURE*, an additional 10 states are predicted to limit terms, with most of these expected to choose strong term limits. Thus, given the changes in federal funds and congressional tenure in the decade since term limits began to spread across the states, the model predicts that even more states would have been expected to limit congressional terms had the Supreme Court not prevented them from doing so.<sup>22</sup>

Our simulation procedure can also be used to suggest which specific states might have

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<sup>22</sup> It is possible that voters reacted to the Supreme Court’s decision by sorting politicians more frequently. Intuitively, if voters want greater turnover but are not allowed to achieve this through term limits, they will do so at the voting booth. If this is the case, then the Court’s decision would have partly determined the decrease in average congressional tenure, and the model would be picking up some of this in the simulated movements out of Category 0. We cannot test for this potential endogeneity; however, it seems implausible given that the largest decrease in tenure occurred in the 1994 elections, which took place before the Court’s ruling. Nonetheless, the *TENURE\_2002* simulations must be received with this in mind.

chosen to limit terms. We cannot say with certainty that any individual state will fall in a particular category, but the simulations can give a clear picture of how the probabilities will change in response to given *ceteris paribus* changes. Table 5 presents the baseline and simulated probabilities for selected states valued at *TENURE\_2002* and *FEDERALFUNDS\_2002*. The states are ranked by the magnitude of the change in probability of choosing  $TL = 0$ . Table 5 lists the top ten states most likely to switch from “no term limits” to limits of weak, moderate, or strong stringency.<sup>23</sup>

[INSERT TABLE 5]

In the top panel are the simulated probabilities at *TENURE\_2002* values. West Virginia experiences the largest change in category 0: its predicted probability of choosing strong term limits ( $TL = 3$ ) increases from 0.001 to 99.93 percent. Rhode Island has a much higher predicted probability of weak term limits (0 to 99.89 percent), and Texas now appears most likely to choose moderate limits (90.63 percent). Again, these results cannot tell us with certainty whether a state would choose term limits, or the stringency of the limits that would be chosen, but such large changes in predicted probability are noteworthy. Since Ohio already had weak limits, and is predicted by the simulations still to choose weak limits, this top panel of Table 5 lists the ten states most likely to enact term limits under the 2002 congressional tenure profile, *ceteris paribus*. Of these ten states, two would most likely choose weak limits (Rhode Island and Connecticut), one would most likely choose moderate (Texas), Kansas would likely choose moderate or strong, and the six others would likely choose strong.

The bottom panel of Table 5 reports the simulations at *FEDERALFUNDS\_2002*. These estimates reflect patterns similar to the tenure simulations. Alabama is likely to choose strong limits, Texas moderate, and Connecticut weak. Ohio is again likely to stay with weak limits. Notice that Missouri, which is not ranked in the top panel’s tenure simulations, has a higher predicted probability of choosing moderate rather than strong limits. Thus, this panel lists the eight states without term

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<sup>23</sup> Complete results for all 50 states are available on request of the authors.

limits that would be most likely to enact term limits under 2002 federal spending patterns, *ceteris paribus*. Finally, notice that eight states appear in both the top and bottom panels of Table 5. Taken together, the *TENURE\_2002* and *FEDERALFUNDS\_2002* simulations suggest that these eight states would be the most likely to enact term limits as of 2002 were the Supreme Court decision not an inhibiting factor.<sup>24</sup>

As a final note on the simulation results, consider the greater preference for term limits as average tenure declines. One point of view would suggest that this result is backwards. Specifically, if voters desire term limits because tenure is excessive, then the preference for term limits should weaken as tenure goes down. In other words, lower tenure should serve as a substitute for term limits. This view ignores the interdependence of states' tenure and turnover costs. When a state loses tenure, its tenure costs decrease but it also faces decreased turnover costs of choosing to enact term limits. Empirically, the above results indicate that the decreased turnover costs dominate the lower tenure costs, such that the mean preference for term limits increases (as it does, according to our results, for most individual states). Lower average tenure may be a substitute for the desire to enact *universal* term limits. However, for unilateral decisions, our results underscore the strategic nature of states enacting congressional term limits.

## 6. Conclusion

Using a multinomial approach to states' choices on term limits, in a model that controls for endogeneity of direct democracy, this paper demonstrates empirical evidence that states interacted strategically in deciding whether to limit congressional terms. The Supreme Court decided in *U.S. Term Limits, Inc. v. Thornton* that unilateral term limits are unconstitutional. Absent *Thornton*, our simulations suggest that approximately eight to ten additional states may have passed similar laws.

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<sup>24</sup> We calculated simulations at both *TENURE\_2002* and *FEDERALFUNDS\_2002* (Appendix C). We hesitate to infer too much from the simulation in Appendix C as it stretches the *ceteris paribus* conditions on which the simulated calculations rely.

These results suggest a natural extension to issues regarding institutional federalism. In particular, our findings suggest avenues for normative research on the welfare implications of centralized versus decentralized institutional choice. Some of these normative issues are framed by ongoing debates in states' rights and institutional federalism. For example, federal law currently prohibits states from adopting certain political institutions that have spillover effects, but allows states to choose many institutions that do not affect other states. Recent theoretical work has shown that limiting the power of direct democracy within multiple jurisdictions can result in greater centralization of *policy* choice (Redoano and Scharf 2004), and the welfare effects of such policy centralization will depend on the intensity of voters' preferences for constraining representatives (Caplan 2001). Our results provide some evidence on the intensity of such preferences, but invite a similar efficiency analysis of centralizing *institutional* choice. Moreover, de Figueiredo (2003) has demonstrated empirically that political factors as well as social efficiency motivate states' selection of political institutions. Our results underscore that states will interact strategically in choosing institutions that influence redistributive politics. The welfare implications of term limits aside, what are the gains and losses of centralizing the authority to impose term limits? The question of strategic institutional choice among the U.S. States presents a fruitful continuation of this area of research.

Our results also suggest the potential for strategic interaction among the states in reforming other institutions that have spillover effects, such as election reform, informed voter laws, national recall, and some types of gerrymandering. While the Court makes no reference in *Thorton* to interjurisdictional consequences, our evidence supports assigning a more prominent role to potential spillover effects in evaluating future state-level institutional reforms.

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**Table 1**  
**Stringency of States' Term Limits Laws**

<b>State</b>	<b>House Term Limits</b>	<b>Wait Period</b>	<b>Senate Term Limits</b>	<b>Wait Period</b>	<b>Stringency of Term Limit</b>
Arkansas	3 terms	Lifetime	2 terms	Lifetime	Strong
Oklahoma	3 terms	Lifetime	2 terms	Lifetime	Strong
Oregon	3 terms	Lifetime	2 terms	Lifetime	Strong
Nevada	3 terms	Lifetime	2 terms	Lifetime	Strong
Missouri	4 terms	Lifetime	2 terms	Lifetime	Strong
New Hampshire	3 terms	Lifetime	3 terms	Lifetime	Strong
North Dakota	12 years	Lifetime	12 years	Lifetime	Strong
Alaska	6 years	6 years	12 years	12 years	Moderate
Montana	6 years	6 years	12 years	12 years	Moderate
Wyoming	6 years	6 years	12 years	12 years	Moderate
Idaho	6 years	5 years	12 years	11 years	Moderate
Michigan	6 years	5 years	12 years	11 years	Moderate
Washington	6 years	6 years	12 years	6 years	Moderate
California	6 years	5 years	12 years	5 years	Moderate
Maine	6 years	5 years	12 years	5 years	Moderate
Arizona	3 terms	1 term	2 terms	1 term	Weak
Colorado	3 terms	1 term	2 terms	1 term	Weak
Nebraska	3 terms	1 term	2 terms	1 term	Weak
Florida	4 terms	1 term	2 terms	1 term	Weak
Massachusetts	4 terms	1 term	2 terms	1 term	Weak
Ohio	4 terms	1 term	2 terms	1 term	Weak
South Dakota	6 terms	1 term	2 terms	1 term	Weak
Utah	6 terms	1 term	2 terms	1 term	Weak

**Note:** All other states have no term limits.

**Table 2**  
**Variable Names, Definitions and Descriptive Statistics**

<b>Variable Name</b>	<b>Description (Source)</b>	<b>Mean</b>	<b>Std. Dev.</b>	<b>Min</b>	<b>Max</b>
<i>TL</i>	Multi-category dependent variable (See Table 1 and discussion.)	0.9	1.13	0	3
<i>CI</i>	Binary coded 1 for citizen initiative (Council of State Governments 1995)	0.48	0.51	0	1
<i>POPENSITY</i>	Thousands of persons per square mile, 1992 (U.S. Census 1994, Table 27)	169.8	236.9	1.1	1062
<i>EDUCATION</i>	Percent population with any college degree, 1992 (Barone and Ujifusa 1994)	45.42	7.09	29	64
<i>NOMINATE</i>	Mean of House members' voting record, 1992 (Poole and Rosenthal 1997)	-3.82	19.81	-47.1	49.2
<i>PEROT</i>	Percent of 1992 presidential vote to H. Ross Perot (Barone and Ujifusa 1994)	20.54	5.69	9	32
<i>FEDERALFUNDS</i>	Federal expenditures per capita, 1992, in thousands of 1992 dollars (U.S. Census 1994, Table 518)	4.82	0.86	3.67	7.69
<i>FEDFUNDS_2002</i>	Federal expenditures per capita, 2002, in thousands of 1992 dollars (U.S. Census 2003, Table 487)	5.69	1.15	4.11	9.77
<i>TENURE</i>	Mean years of tenure for House and Senate members, 1992 (Barone and Ujifusa 1994)	22.36	8.12	6	44.33
<i>TENURE_2002</i>	Mean years of tenure for House and Senate members, 2002 (Barone and Ujifusa 2004)	12.6	4.53	5.71	28.67
<i>LEADERS</i>	Index of leadership positions by delegation, 1992 (authors' calculations)	10.38	5.95	1	30
<i>STATESIZE</i>	Geographic area, thousands of square miles (U.S. Census 1994, Table 351)	89.05	114.6	1.54	663.3
<i>SALARY</i>	Annual salary to state legislators, 1992, in thousands of 1992 dollars (Council of State Governments 1995)	21.42	14.64	0.1	57.5
<i>GOVERNOR</i>	Binary coded 1 for gubernatorial term limits (Council of State Governments 1995)	0.8	0.40	0	1

**Table 3**  
**Second-Stage Multinomial Logit**

	Coefficient Estimate	Standard Error
<b><i>TL = 1 (weak term limits)</i></b>		
<i>POPENSITY</i>	.010*	.006
<i>EDUCATION</i>	-1.18**	.584
<i>NOMINATE</i>	.17*	.089
<i>PEROT</i>	2.42**	1.22
<i>FEDERALFUNDS</i>	6.84*	3.59
<i>TENURE</i>	-.97*	.523
<i>LEADERS</i>	-2.34**	1.15
<i>CI-Instrument</i>	.71**	.333
<i>Constant</i>	-18.02	15.6
<b><i>TL = 2 (moderate term limits)</i></b>		
<i>POPENSITY</i>	-.016	.021
<i>EDUCATION</i>	-1.25**	.616
<i>NOMINATE</i>	.18*	.103
<i>PEROT</i>	2.71**	1.24
<i>FEDERALFUNDS</i>	7.57**	3.69
<i>TENURE</i>	-1.05*	.561
<i>LEADERS</i>	-1.71*	.998
<i>CI-Instrument</i>	.77**	.354
<i>Constant</i>	-33.23*	17.4
<b><i>TL = 3 (strong term limits)</i></b>		
<i>POPENSITY</i>	-.014	.016
<i>EDUCATION</i>	-1.25**	.601
<i>NOMINATE</i>	.099	.075
<i>PEROT</i>	2.30**	1.13
<i>FEDERALFUNDS</i>	5.26	3.31
<i>TENURE</i>	-1.00*	.524
<i>LEADERS</i>	-2.31**	1.12
<i>CI-Instrument</i>	.64**	.329
<i>Constant</i>	3.44	9.68
Log likelihood	-21.18	
Chi-square (24)	77.07	
Prob > Chi-square	0.00	
Pseudo-R <sup>2</sup>	0.64	

**Notes:**

Dependent variable is *TL* where *TL* = 0 is the base (comparison) category.

Sample is the 50 U.S. states.

Explanatory variable *CI-Instrument* is predicted value from first-stage logit (Appendix A).

See Table 2 for definitions and descriptive statistics of all variables.

\*\* Significant with 95% confidence. \* Significant with 90% confidence.

**Table 4**  
**Simulated Changes in Predicted Probabilities and Frequencies by Category of TL**

	<b>Baseline Predictions by Category of TL</b>			
	<b>0 (none)</b>	<b>1 (weak)</b>	<b>2 (moderate)</b>	<b>3 (strong)</b>
Predicted Probability (states in category)	.540 (27)	.160 (8)	.160 (8)	.140 (7)
<b>Simulated Probabilities for 10% Increase in Indep. Variable (change in number of states relative to base category)</b>				
<i>POPENSITY</i>	0.537 (-0.13)	0.177 (+0.85)	0.151 (-0.47)	0.135 (-0.25)
<i>EDUCATION</i>	0.695 (+7.73)	0.130 (-1.48)	0.110 (-2.52)	0.065 (-3.73)
<i>NOMINATE</i>	0.547 (+0.34)	0.154 (-0.31)	0.160 (-0.01)	0.140 (-0.02)
<i>PEROT</i>	0.412 (-6.42)	0.181 (+1.04)	0.233 (+3.63)	0.175 (+1.74)
<i>FEDERALFUNDS</i>	0.428 (-5.62)	0.208 (+2.39)	0.215 (+2.73)	0.150 (+0.49)
<i>TENURE</i>	0.632 (+4.60)	0.132 (-1.41)	0.132 (-1.42)	0.105 (-1.77)
<i>LEADERS</i>	0.642 (+5.12)	0.106 (-2.70)	0.150 (-0.52)	0.102 (-1.89)
<i>CI-Instrument</i>	0.426 (-5.71)	0.189 (+1.45)	0.225 (+3.24)	0.161 (+1.03)
<b>Simulated Probabilities at 2002 Values (change in number of states in category)</b>				
<i>FEDERALFUNDS_2002</i>	0.382 (-7.88)	0.232 (+3.59)	0.231 (+3.57)	0.155 (+0.73)
<i>TENURE_2002</i>	0.339 (-10.03)	0.177 (+0.84)	0.228 (+3.39)	0.256 (+5.81)

**Notes:**

Baseline probabilities are derived from second-stage mlogit estimates in Table 3.  
 Simulated probabilities are calculated for a 10 per cent increase, ceteris paribus, in the independent variable.

**Table 5**  
**Baseline and Simulated Probabilities by State and Category for Selected States**

<b>Simulated at <i>TENURE_2002</i></b>										
<i>Rank</i>	<i>State</i>	<b>0</b>		<b>1</b>		<b>2</b>		<b>3</b>		<b>Actual</b>
		<i>Baseline</i>	<i>Simulated</i>	<i>Baseline</i>	<i>Simulated</i>	<i>Baseline</i>	<i>Simulated</i>	<i>Baseline</i>	<i>Simulated</i>	<i>TL</i>
1.	W. Virginia	.9995	.0001	.0000	.0007	.0000	.0000	.0005	.9993	0
2.	Rh. Island	1	.0011	.0000	.9989	.0000	.0000	.0000	.0000	0
3.	Alabama	.9772	.0038	.0002	.0077	.0000	.0000	.0226	.9885	0
4.	Mississippi	.9583	.0000	.0022	.0246	.0000	.0002	.0395	.9751	0
5.	Kansas	.8616	.0000	.0290	.0651	.0103	.2888	.0991	.6460	0
6.	Connecticut	.6646	.0019	.3353	.9980	.0000	.0000	.0000	.0001	0
7.	Ohio	.6627	.0000	.2944	.7741	.0053	.0524	.0376	.1734	1
8.	Texas	.6549	.0012	.0055	.0089	.3000	.9063	.0397	.0836	0
9.	Minnesota	.6432	.0007	.0015	.0031	.0000	.0001	.3553	.9961	0
10.	Georgia	.9996	.3890	.0000	.0039	.0000	.0001	.0004	.6071	0
11.	Hawaii	.9060	.3283	.0259	.1707	.0000	.0000	.0680	.5008	0

<b>Simulated at <i>FEDERALFUNDS_2002</i></b>										
<i>Rank</i>	<i>State</i>	<b>0</b>		<b>1</b>		<b>2</b>		<b>3</b>		<b>Actual</b>
		<i>Baseline</i>	<i>Simulated</i>	<i>Baseline</i>	<i>Simulated</i>	<i>Baseline</i>	<i>Simulated</i>	<i>Baseline</i>	<i>Simulated</i>	<i>TL</i>
1.	Alabama	.9772	.0412	.0002	.0747	.0000	.0007	.0226	.8841	0
2.	Mississippi	.9583	.0275	.0022	.2684	.0000	.0006	.0395	.7034	0
3.	Hawaii	.9060	.0268	.0259	.6230	.0000	.0003	.0680	.3502	0
4.	Kansas	.8616	.1041	.0290	.3216	.0103	.1856	.0991	.3886	0
5.	Connecticut	.6646	.0012	.3353	.9988	.0000	.0000	.0000	.0003	0
6.	Ohio	.6627	.0228	.2944	.9095	.0053	.0264	.0376	.0413	1
7.	Texas	.6549	.0341	.0055	.0114	.3000	.9194	.0397	.0351	0
8.	Minnesota	.6432	.1179	.0015	.0078	.0000	.0001	.3553	.8741	0
9.	Missouri	.3535	.0096	.0946	.1705	.2063	.5826	.3456	.2373	3
10.	W. Virginia	.9995	.7354	.0000	.0028	.0000	.0001	.0005	.2617	0

**Notes:**

States are ranked by the magnitude of the change in predicted probability of choosing  $TL = 0$ —i.e., the change in probability of choosing no term limits. Complete rankings are available on request.

An entry of .0000 indicates a probability less than  $10^{-7}$ .

**Appendix A**  
**First-Stage Logit**

	<b>Coefficient Estimate</b>	<b>Standard Error</b>
<i>POPENSITY</i>	-.003	.003
<i>EDUCATION</i>	.046	.097
<i>NOMINATE</i>	-.028	.028
<i>PEROT</i>	.356**	.159
<i>FEDERALFUNDS</i>	-.162	.775
<i>TENURE</i>	-.323**	.138
<i>LEADERS</i>	-.067	.129
<i>STATESIZE</i>	.035***	.013
<i>SALARY</i>	.139**	.065
<i>GOVERNOR</i>	6.19**	2.55
Constant	-11.26	5.59
Log likelihood	-15.22	
Chi-square (11)	38.80	
Prob > Chi-square	0.00	
Pseudo-R <sup>2</sup>	0.56	
N	50	

**Notes:**

Dependent variable is  $CI = 1$  for states that have citizen initiative process.

Sample is the 50 U.S. states.

See Table 2 for definitions and descriptive statistics of all variables.

\*\*\*Significant with 99% confidence. \*\* Significant with 95% confidence.

**Appendix B**  
**Predicted Baseline Probabilities and Actual Category by State**

State	Predicted Probability that <i>TL</i> =				Actual <i>TL</i> =
	0	1	2	3	
Alabama	0.9772	0.0002	0.0000	0.0226	0
Alaska	0.0000	0.0423	0.9577	0.0000	2
Arizona	0.0000	0.3416	0.6334	0.0250	1
Arkansas	0.2461	0.0002	0.0000	0.7537	3
California	0.2998	0.0001	0.7001	0.0000	2
Colorado	0.0000	0.5664	0.3891	0.0446	1
Connecticut	0.6646	0.3353	0.0000	0.0000	0
Delaware	1	0.0000	0.0000	0.0000	0
Florida	0.0000	0.9035	0.0908	0.0057	1
Georgia	0.9996	0.0000	0.0000	0.0004	0
Hawaii	0.9060	0.0259	0.0000	0.0680	0
Idaho	0.0000	0.5242	0.3925	0.0834	2
Illinois	1	0.0000	0.0000	0.0000	0
Indiana	1	0.0000	0.0000	0.0000	0
Iowa	1	0.0000	0.0000	0.0000	0
Kansas	0.8616	0.0290	0.0103	0.0991	0
Kentucky	1	0.0000	0.0000	0.0000	0
Louisiana	1	0.0000	0.0000	0.0000	0
Maine	0.0000	0.0419	0.9334	0.0247	2
Maryland	1	0.0000	0.0000	0.0000	0
Massachusetts	0.2434	0.7566	0.0000	0.0000	1
Michigan	0.0269	0.3773	0.3216	0.2742	2
Minnesota	0.6432	0.0015	0.0000	0.3553	0
Mississippi	0.9583	0.0022	0.0000	0.0395	0
Missouri	0.3535	0.0946	0.2063	0.3456	3
Montana	0.0000	0.1756	0.7777	0.0466	2
Nebraska	0.0000	0.4390	0.0579	0.5031	1
Nevada	0.0000	0.1861	0.3907	0.4232	3
New Hampshire	0.2130	0.0244	0.0000	0.7626	3
New Jersey	1	0.0000	0.0000	0.0000	0
New Mexico	1	0.0000	0.0000	0.0000	0
New York	1	0.0000	0.0000	0.0000	0
North Carolina	1	0.0000	0.0000	0.0000	0
North Dakota	0.0000	0.2879	0.0168	0.6953	3
Ohio	0.6627	0.2944	0.0053	0.0376	1
Oklahoma	0.0000	0.4765	0.1762	0.3474	3
Oregon	0.0360	0.3195	0.0026	0.6420	3
Pennsylvania	0.2552	0.3436	0.3823	0.0189	0
Rhode Island	1	0.0000	0.0000	0.0000	0
South Carolina	1	0.0000	0.0000	0.0000	0
South Dakota	0.0000	0.0396	0.0032	0.9572	1
Tennessee	1	0.0000	0.0000	0.0000	0
Texas	0.6549	0.0055	0.3000	0.0397	0
Utah	0.0000	0.3533	0.6139	0.0328	1
Vermont	1	0.0000	0.0000	0.0000	0
Virginia	1	0.0000	0.0000	0.0000	0
Washington	0.0000	0.3312	0.5161	0.1528	2
West Virginia	0.9995	0.0000	0.0000	0.0005	0
Wisconsin	0.9986	0.0000	0.0000	0.0014	0
Wyoming	0.0000	0.6806	0.1222	0.1972	2

**Notes:** Baseline predictions are from second-stage mlogit estimates (Table 3). An entry of .0000 means  $< 10^{-7}$ .

**Appendix C**  
**Baseline and Simulated Probabilities at *TENURE\_2002* and *FEDERALFUNDS\_2002***

	<b>0</b>		<b>1</b>		<b>2</b>		<b>3</b>		<b>Actual TL</b>
	<i>Baseline</i>	<i>Simulated</i>	<i>Baseline</i>	<i>Simulated</i>	<i>Baseline</i>	<i>Simulated</i>	<i>Baseline</i>	<i>Simulated</i>	
Rhode Island	1	0.0000	0.0000	1	0.0000	0.0000	0.0000	0.0000	0
West Virginia	0.9995	0.0000	0.0000	0.0049	0.0000	0.0000	0.0005	0.9951	0
Delaware	1	0.0163	0.0000	0.8323	0.0000	0.0000	0.0000	0.1513	0
Georgia	0.9996	0.0223	0.0000	0.0166	0.0000	0.0000	0.0004	0.9610	0
Alabama	0.9772	0.0000	0.0002	0.0563	0.0000	0.0000	0.0226	0.9437	0
Mississippi	0.9583	0.0000	0.0022	0.1469	0.0000	0.0023	0.0395	0.8508	0
Vermont	1	0.0760	0.0000	0.0009	0.0000	0.0000	0.0000	0.9231	0
Hawaii	0.9060	0.0015	0.0259	0.6130	0.0000	0.0000	0.0680	0.3855	0
Kansas	0.8616	0.0000	0.0290	0.0854	0.0103	0.6148	0.0991	0.2998	0
New Mexico	1	0.1522	0.0000	0.0694	0.0000	0.0014	0.0000	0.7770	0

**Notes:**

States are ranked by the magnitude of the change in predicted probability of choosing  $TL = 0$ —i.e., the change in probability of choosing no term limits. Complete rankings are available on request.

An entry of .0000 indicates a probability less than  $10^{-7}$ .