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The Effects of Redistricting on Incumbents\textsuperscript{1}

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Abstract

We analyze the effects of redistricting on the electoral fortunes of incumbent legislators, using voting data on U.S. congressional districts, state legislative districts, and statewide races. We find little evidence that redistricting helps incumbents in U.S. legislative elections. If anything, redrawing district lines reduces the average vote margin of those in districted offices compared with offices that are not districted, reduces electoral security, and increases turnover in the legislature.
1. Introduction

Over the past 50 years U.S. elections have witnessed the rising importance of incumbency. While party remains the central and most important predictor of voting behavior, American voters now also base their decisions on the individuals running for office and what those individuals have done to serve local interests. Sitting legislators, when they run for reelection, evidently enjoy substantial electoral advantages, which are manifest both in voters’ behavior and in aggregate rates of electoral competition and legislative turnover. For their part, voters favor incumbents, and as a result incumbents today receive vote margins approximately 10 percentage points greater than candidates running in open seats. Aggregate turnover in U.S. legislative elections has similarly fallen. Many fewer incumbents retire today than in previous generations; reelection rates of those who do run for reelection exceed 90 percent. As a result, turnover in U.S. legislatures is extremely low and the tenure of the typical legislator grows longer.

The rising advantages of incumbency, whatever their causes, have altered the patterns of representation and electoral responsiveness in the U.S. The incumbency effect has muted the effects of short-run factors, such as economic fluctuations, on the composition of U.S. legislatures (Mayhew, 1974). It has insulated the majority party in Congress and lengthened the time that the majority party can expect to remain in power (Ansolabehere and Gerber, 1997). It is thought to reflect a lack of collective responsibility inside the legislature, especially where matters of budgeting are concerned (Fiorina, 1980).

Why American legislators win reelection at such high rates remains an unsolved puzzle. Here we examine one of the most enduring and controversial conjectures – namely, that redistricting accounts for the rise of incumbent-centered politics. Incumbency arose at same time as redistricting revolution in the U.S., set off by the landmark U.S. Supreme Court case Baker v. Carr.\(^1\) That case, decided in March, 1962, led to the redrawing of nearly every U.S. House and states legislative district in America within a four year span.\(^2\) Research in political science identifies this as precisely the time period with the steepest rise in incumbents’ vote

\(^1\)For a history of that case and its consequences see Ansolabehere and Snyder (2008).
\(^2\)Ibid, page 187.
margins (Jacobson, 1987). The coincidence of rising incumbency advantages and widespread court-mandated redistricting has led many observers to conclude that the two are inextricably linked.

Three specific arguments claim a causal relation between redistricting and incumbency. First, incumbents use redistricting to create safe (partisan) seats. Perhaps the clearest statement of this argument comes from the Samuel Issacharoff (2002), who likens redistricting to the foxes guarding the hen house. The two major parties, he argues, engage in duopolistic behavior to guarantee their continued dominance of American elections by creating large numbers of safe Democratic and safe Republican seats.\(^3\) Second, incumbents use redistricting to protect their own seats. Redistricting turns the normal representation process on its head. It is at this moment that politicians choose their constituencies, rather than the constituencies choosing the politicians. That opportunity might allow incumbents to create districts that are particularly favorable to them on personal grounds. Third, redistricting creates incumbency advantages by creating barriers to entry for challengers. Political control of redistricting allegedly gives incumbents another instrument with which to deter entry. As a result, new district boundaries are thought to increase legislators’ vote shares. Note that this argument is distinct from traditional partisan gerrymandering, in which the majority party creates more seats for itself by “packing” voters of the opposition party. Under partisan gerrymandering, seats held by the minority party’s incumbents will tend to get safer, but districts held by the majority party’s incumbents may become more competitive.\(^4\)

Alan Ehrenhalt, executive editor of *Governing* magazine, offered the following succinct assessment:

“Decades of litigation and judicial activism have created a system in which bizarrely shaped districts exist to serve undisguised racial purposes. Partisan gamesmanship has brought us legislatures stacked with safe seats that preclude competition at election time. All of this has taken place under the auspices of a Supreme Court doctrine that virtually any political outrage is permissible as long as the census populations of the districts are

\(^3\)See especially, Issacharoff, op cit, page 598. See also, Cox and Katz (2002). For other arguments, see, e.g., Coate and Knight (2007).

\(^4\)See Butler and Cain (1992) for a discussion of these distinctions.
mathematically the same – even though no such mathematical precision even exists.”

These arguments represent an important line of thinking about the political consequences of allowing legislators to draw district boundaries. In one sense, they are right. An obvious conflict of interest arises when a politician chooses his or her constituency, and legislators devote considerable effort to influence the composition of their districts. The presence of such a conflict of interest does not translate necessarily into a political advantage, however.

What actually happens to incumbents around redistricting is quite a different picture. Redistricting is a disruptive factor, for incumbents and parties. Looking at electoral outcomes across redistricting periods we conclude that periodic redistricting forced by the courts since the 1960s has, on the whole, weakened incumbency and partisan electoral advantages.

We examine five key indicators of the consequences of political control over electoral institutions. The first is the partisanship of districts. Insulation of incumbents and of the incumbent party predicts that most districts are either overwhelmingly Democratic or overwhelmingly Republican, with few mixed or moderate constituencies. Using conventional measures we show that the opposite is true – most districts are moderate and there is no or little bimodality in the distribution of districts’ partisanship.

The second indicator is vote differentials between “new” and “old” parts of incumbents’ districts. Changes in district boundaries hurt incumbents since they lose voters whom they had served and gain voters who don’t know them. There is, in fact, a large difference between the votes that incumbents win among familiar and new parts of their districts. (See Ansolabehere, Snyder, and Stewart 2001.)

The third indicator is the incumbency effect on the vote, estimated either using regression analysis or sophomore surge. The incumbency effect is defined as the expected difference between the vote share won by a party when an incumbent is running and when an incumbent is not running. This quantity can be estimated for any type of office, such as all U. S. House elections or all U. S. Senate elections. (See Erikson 1971; Gelman and King 1990) We compare the incumbency effects for offices that are districted and offices that are not districted, and find that the incumbency effect is in fact much smaller in districted elections.

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(state legislatures and the U.S. House) than in non-districted elections (U.S. senate, governor, and other statewide offices).

The fourth indicator is changes in district partisanship. We find small changes in partisanship, and in the case of Democrats, changes that hurt incumbents on average rather than help them. Persily (2002) makes a similar observation in response to Issacharoff.\(^6\)

Finally, we examine turnover. If redistricting amounts to incumbency protection then there should be little or no turnover in the elections following the creation of new constituencies. In fact, redistricting years regularly show the highest turnover.

We present a series of statistical analyses and show that in one analysis after another the data do not break in the direction one would expect if incumbents were able to carefully control the process and carve up the electoral terrain to their benefit. There are, of course, exceptions to this overall picture, but the typical state legislator or member of Congress dreads the redistricting process. It disrupts relations that the legislature has built up with a constituency over the course of a decade. Those disruptions, though, are a necessary part of democratic politics; they are required in order to allow Congress and state legislatures to evolve with the ever changing American electorate.

### 2. Partisanship of Districts

There are really two distinct arguments. The first alleges that incumbents of both parties have raised their electoral security by crafting safe partisan districts, with overwhelming numbers of Democrats or of Republicans. The second claims that incumbents are able to increase their personal vote through the redistricting process. In this section we turn to the first of these two conjectures. We examine the second possibility in the sections that follow.

Issacharoff, writing in the *Harvard Law Review*, offers the most cogent expression of this idea, which he calls duopolistic gerrymandering. The two parties he argues have formed something of a cartel, a duopoly through which they decide to divide the political turf to suit each party’s interest and fend off all potential entrants into their market. Most states are

\(^6\)On it’s own, Persily’s criticism may not hold much force, as one might argue that legislators’ involvement in redistricting prevented their districts from becoming even worse. However, the fact that commissions and courts produce very similar results to legislature-drawn maps suggests that incumbents have relatively little ability control their own fates through the redistricting process.
closely divided between the parties. Arbitrarily drawn districts would create a large number of districts that are split evenly between Democratic and Republican adherents, and with a good dose of Independent voters thrown in as well. For politicians, this would be a terrible state of affairs as competitive districts are difficult to win and hard to hold onto. Democratic and Republican legislators, realizing this problem, may join forces and divide their state so that most seats are safe for one party or another, leaving only a handful of evenly split, competitive districts. Focusing on the facts in Gaffney v. Cummings, Issacharoff argues that the ”conceptual weakness in how the Court has treated the potential for mischievous manipulation of redistricting is evident in ... a political compromise between the Democrats and Republicans of Connecticut to partition the state so as to lock in the political status quo ante.”

This is a nice argument. Sitting legislators can improve their own political positions and reduce the risk facing their party. Duopolistic gerrymandering buys the support of the large majority of sitting legislators since the large majority of them are guaranteed safe (partisan) seats. Such a plan minimizes the electoral uncertainty and electoral costs that the parties’ face, since competition is limited to a few places. It does not cause incumbency advantages, but it would have the side effect of protecting those incumbents who happen to be in safe Democratic and safe Republican seats. It would, if real, deepen the partisan division among the constituencies that the legislators represent and further polarize of the parties inside the legislature. Of course it assumes that the members of the minority party would prefer to remain a permanent legislative minority, safe in their own seats but with little hope of gaining control of the house.

This is not just the stuff of academic debates. It is widely believed to be the new reality. Jeffrey Toobin, writing in the New Yorker magazine, has called this “The Great Election Grab.” Republican congressman James Leach of Iowa said of Congress in 2003 that “a little less than 400 seats are totally safe.” Even those who had once defended the current process now think it broken. The sharp increases in incumbent departures following redistricting cast a shadow of doubt over this conjecture. Patterns of defeat increase those doubts still further.

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7 Issacharoff op cit, page 598.
It is indeed true that in the typical election only one in ten seats are highly competitive, the set of close elections varies from year to year - hardly what one would expect from a carefully crafted set of boundaries. Indeed, three years after Congressman Leach offered his assessment, the voters bounced Leach and 30 of his Republican colleagues, giving Democrats control of Congress for the first time in 12 years.

The districts themselves provide direct evidence that the politicians have not been able to capture the redistricting process in the ways that Issacharoff, Toobin, and others conjecture. It is not that they haven’t tried, they just haven’t succeeded wholesale. Successive rounds of duopolistic gerrymandering over the past 40 years should have created large numbers of highly safe Democratic seats and highly safe Republican seats. The result would be a small number of marginal districts in which the ratio of Democrats to Republicans is about even, and a very large number of districts where the fraction of Democrats far exceeds the fraction of Republican identifiers or vice versa. If one were to rank order the legislative districts in the country from most Democratic to most Republican and count the frequency of districts that were safely Democratic, marginal, or safely Republican, a two-humped or bimodal shape would occur. Such a bimodal distribution of the underlying partisanship of district partisanship would effectively insulate incumbents against national swings in the two-party vote. In other words, if the distribution of district partisanship were bimodal, then a national swing in the vote of, say 5 or 10 percentage points from the Democrats to the Republicans or vice versa, would produce relatively few incumbent defeats.

By contrast, the districts may be drawn with little regard for or opportunity to create safe seats or protect incumbents. The bargaining over redistricting across legislative chambers and with the executive maybe so intense and subject to so many competing demands that it leaves little leeway for party. If the lines were drawn without regard to party, the typical district would reflect the division of the vote statewide, and the partisan division in most of the districts would deviate only somewhat from the division of the statewide vote. There would be a few highly Republican and highly Democratic districts. This principle has been conjectured, at least among statisticians, for over a century. The eminent 19th Century statistician F.Y. Edgeworth studied English Parliamentary elections with just such
a hypothetical district system in mind and predicted that if redistricting did not matter we should expect a bell-shaped, or normal, curve. Under this possibility, a swing of 5 or 10 points nationwide would turn out of office relatively large numbers of incumbents. Conventionally, Political Scientists have used margins of 60-40 or 55-45 to define which districts are marginal.

Which view is right? Figure 1(a) and Figure 1(b) present the distribution of the underlying (or normal) party division of the vote in the American state legislatures during the 1980s. This decade provides an ideal testing ground for the claims of duopolistic gerrymandering. The 1980s represent the highwater mark for the incumbency advantages in U.S. House elections, and, by the beginning of this decade, the questions about equality of legislative district populations had largely had been settled and the initial shock waves of the reapportionment revolution had damped down. Professor Gary King and his colleagues at Harvard University developed a unique database of the precinct-level election returns for the years 1984 to 1990 for almost all state legislatures, called the ROAD database. We used these data to construct the partisan division in each state legislative district in the United States. For each district in each state in the 1980s we calculated the average Democratic share of the two-party vote in all offices. That resulted in 50 separate graphs. We laid each of those graphs over each other; that is, we centered all of the states at 50 percent and made a single graph of all state legislative districts. This allows us to examine the distribution of the party division of the vote in all of the states at once. That distribution is shown in Figure 1(a) for lower houses, and in Figure 1(b) for upper chambers.\(^8\)

The distribution of the vote across legislative districts is clearly unimodal. Most of the districts are near the center of the distribution, and the frequency of districts tails off as one moves away from the political center. To put matters bluntly, there is absolutely no trace of the bipartisan cartel. Rather the distribution of the normal party vote in the legislative

\(^8\)Pooling all of the states into a single graph might obscure the true pattern. The figures in the appendix of Ansolabehere and Snyder (2008) show that this is not the case. They present graphs for all individual legislative chambers. Only one state legislative chamber, the New York State Senate, had two distinct humps with the much larger laying in the Republican side of the ledger. About 30 percent of the state’s districts are safely Democratic and half are safely Republican. Interestingly, New York’s assembly has one hump, not two. A handful of other states had a smaller cluster of safe Democratic seats, likely the product of racial districting requirements. Otherwise, the distribution of votes among the states followed a bell-shaped curve.
districts looks to be consistent with the notion that the parties can exert relatively little influence over the contours of legislative districts. They have some influence on the margin, but, consistent with our earlier findings on partisan bias, state legislative districts do not seem to reflect a strongly partisan tilt.

Finally, we turned our sites on the U.S. House, using the presidential vote. This is shown in Figure 2. Nearly the same picture arises in the 1980s, 1990s, and 2000s. The distribution of the normal vote in the House follows a normal curve very closely. There is a slight asymmetry, a small cluster of extremely Democratic seats. These seats are created to ensure minority representation, and we will discuss them below. Otherwise the distribution of the partisan division of the vote in U.S. House elections resembles that in the state legislatures. The large majority of districts are fairly evenly split between the two parties. Most districts have partisan divisions that lie in the range between 40% Democratic versus 60% Republican to 40% Republican versus 60% Democratic. Of course, this is not to say that parties are ineffective at helping themselves when they control the redistricting process. As documented in Ansolabehere and Snyder (2008) and elsewhere, measures of partisan bias are substantially higher when there is unified party control of state government and the legislature controls redistricting. However, over the past five decades these biases have actually shrunk. Thus, the fact that state legislatures are now forced to draw new districts every 10 years has not led to a marked increase in either the skew or bimodality in the distribution of district partisanship.

*Although the 40% and 60% thresholds are arbitrary, they are commonly used by political scientists to distinguish safe and competitive districts. In any case, using 45% and 55% yields the same substantive conclusion.*
3. Old vs. New Areas

The second form of the argument that redistricting causes incumbents’ electoral advantages alleges that the districts themselves are carved up in a way that creates a personal vote for the individual representative. That might come from the creation of a district that contains voters loyal to the incumbent from past service and name recognition or from the creation of a district with higher numbers of voters inclined to favor the incumbent by virtue of party or for sociological affinities (such as ethnicity or religion).

We look at each of these factors separately. The approach in this section is to examine how redistricting alters the constituencies represented by incumbents and, in turn, changes their vote shares.

3.1. Changing Partisanship of Districts

One line of thinking holds that each redistricting makes marginal changes in the partisanship of districts. Through successive rounds of redistricting incumbents gain more favorable partisan compositions of their districts. One important branch in this vein reflects the political control of the institutions that conduct or oversee the redistricting. In some states the legislatures draw lines; in others lines are drawn by independent commissions; in still others the duty falls to the courts. Does redistricting improve the partisan composition of the typical incumbent’s districts? Does political control of redistricting make for more partisan districts?

For the three most recent redistricting episodes, we measure directly the degree to which redistricting helps incumbents by shifting the partisan composition of their districts in their favor. We cannot directly measure party identification at the congressional district level, but we can use the presidential vote.\(^{10}\)

Importantly, for the three most recent episodes, voting data are available for the same presidential election in both the old and new districts after redistricting. Specifically, the

\(^{10}\text{Many previous studies use the presidential vote to measure district partisanship, including Erikson (1971b), Cantor and Herrnson (1997), Ansolabehere, Snyder and Stewart (2000, 2001), Powell (2000), Jacobson (2004), and Abramowitz, Alexander and Gunning (2006). It is not perfect, of course, but it is probably the best single measure available at the congressional district level.}\)
results of the 1980 presidential election are available for the districts that applied in 1980 and also the districts that applied in 1982; the results of the 1988 election are available for the both the 1990 and 1992 districts; and the results of the 2000 election are available for both the 2000 and 2002 districts.

Given this data, the analysis is straightforward and proceeds as follows. Fix a particular redistricting episode. Let $V_i^B$ be the Democratic percentage of the two-party vote in the relevant presidential election in incumbent $i$’s district before redistricting, let $V_i^A$ be the Democratic percentage of the two-party vote in the relevant presidential election in incumbent $i$’s district after redistricting, and let $\Delta_i = V_i^A - V_i^B$. Let $S_D$ ($S_R$) be the set of districts held by Democratic (Republican) incumbents running for reelection in the year after redistricting, and let $N_D$ ($N_R$) be the number of districts in $S_D$ ($S_R$). Finally, let $\overline{\Delta}_D = (1/N_D) \sum_{i \in S_D} \Delta_i$ and let $\overline{\Delta}_R = -(1/N_R) \sum_{i \in S_R} \Delta_i$ (note the reversal of sign for Republican incumbents). These last quantities are the main quantities of interest, and provide measures of the average extent of pro-incumbent or anti-incumbent partisan shifts in districts. In both cases, positive values imply changes in district partisanship that favor incumbents.

The results are shown in Table 1. We find that, on average, redistricting slightly helps Democratic incumbents in terms of district partisanship, and slightly helps Republican incumbents. Specifically, districts held by Democratic incumbents become about 0.5 percentage points less Democratic after redistricting, and districts held by Republican incumbents become about 1 to 1.5 percentage points more Republican. Neither of these changes is overwhelming. That is, those drawing district lines indeed try to help incumbents, but the effects are on the order of 1 percentage point.

Finally, there is the question of agency. Who does the redistricting might determine the effects on the electoral process. Table 2 considers whether it matters if redistricting is done by state legislatures, commissions, or courts.\textsuperscript{11} Carson and Crepsin (n.d.) argue that plans drawn by commissions and courts generally lead to more electoral competition than those drawn by state legislatures. Overall, we find little differences with respect to

\textsuperscript{11}We use the coding in Appendix Table A in Carson and Crepsin (n.d).
changes in district partisanship. In none of the four rows are the F-statistics for tests of the equality of the three cell means statistically significant from zero at the .05 level.\textsuperscript{12} The one noticeable difference is for Democratic incumbents under court-ordered plans (row 1 and row 3). In this case district partisanship shifts against the incumbent by more than 1 percentage point, on average, while under legislative or commission plans the changes are minimal. On the other hand, court-ordered plans are not much different than other types for Republican incumbents. Thus, the findings by Carson and Crespin are likely due to factors other than district partisanship, such as race or ethnicity.

Table 3 takes a closer look at the plans drawn by state legislatures, divided according to the party in control of the state government at the time of redistricting. A state is under Democratic control if Democrats have a majority in both houses of the state legislature the governor is a Democrat, or if Democrats have veto-proof majorities in both houses of the state legislature. Republican control is defined analogously, and the remaining cases are classified as Divided. There is some evidence of “packing” in Table 3. Democratic incumbents are helped by redistricting when Republicans control the state government, but not in other cases. Also, while Republican incumbents are helped in all cases, they are especially helped when Democrats control the state government. In all four rows of the table the F-statistics for tests of the equality of the three cell means are statistically significant from zero at the .05 level.

Note that the analyses above focus on incumbents who run for reelection. Thus, they may understate the degree to which redistricting hurts incumbents. This would be the case, for example, if redistricting also induces retirements, especially among incumbents whose districts shift more sharply against them. The following quote is illustrative: “Wolpe decided against either of two unpalatable alternatives: a primary fight against Democrat Bob Carr in the 8th, or a run in the new 7th, which was at least 5% more Republican than his old seat and in which about half the voters had no acquaintance with the hard-driving constituency service which has offset his liberal voting record.”\textsuperscript{13} In future work we will analyze data on

\textsuperscript{12}The differences in the first row – for Democratic incumbents in states with two or more districts – is significant at the .10 level.

\textsuperscript{13}From the \textit{Almanac of American Politics, 1994} (page 651).
the districts in which retiring incumbents would have run had they run for reelection, which will allow us to check this.

To the extent that we find that redistricting increases the partisan vote share of incumbents, the effects are small. On average, a typical Democratic incumbent’s average district partisanship increases by .5 percentage points, and a typical Republican incumbent’s average district partisanship increases by 1 percentage point. When one party controls the entire process the effects are somewhat larger for some seats. The dominant party does not change appreciably the average partisanship of its own incumbents’ districts, but it does pack the opposition somewhat, by increasing the average partisanship of the out party’s incumbents by about 2 percentage points. When control is divided the changes in district partisanship are quite small, and only Republican incumbents appear to benefit. On average, Democratic incumbents lose slightly. Thus, the changes in district partisanship are not consistent with bipartisan gerrymandering along the lines alleged in the Connecticut redistricting challenged under Gaffney v. Cummings. If anything, they are more consistent with claims of partisan gerrymandering.

This is not to say that instances of bipartisan gerrymandering never arise. But, even under divided government, such cases are evidently exceptions, not the norm. To the extent there is any evidence that gerrymandering affects the underlying partisanship of districts it is of old-fashioned variety – packing the out-party – rather than duopolistic, cartel-like division of the electoral terrain “to preserve status quo ante.” Even these effects, however, are quite small and not systematic.

3.2. Changing Personal Votes

An alternate line of thinking holds that redistricting might increase the personal vote for the representative. One view of the incumbency effect holds that it reflects personal support in the district arising through such factors as name recognition, constituency service, and a voting record tailored to local voters’ preferences (Cain, Ferejohn, and Fiorina, 1987). Redistricting might increase the personal vote of incumbents by shaving off precincts where the incumbent has the weakest personal support.
Changes in districts have been used in past studies to capture the extent of the personal vote. Following redistricting many districts consist of areas that the legislator previously represented and areas that the legislator had not represented in the past – old voters and new voters. Controlling for the partisanship of the areas, the difference in the incumbent’s vote share between old areas and new areas in the election following redistricting will reflect the extent of the personal vote (see, e.g., Fiorina, 1974; Rush, 1993; Ansolabehere, Snyder, and Stewart, 2000). As Ansolabehere, Snyder and Stewart (2000) note, when new areas are added to an incumbent’s district, the incumbent will initially have far less name recognition in the new area, and fewer voters in the new area will know about the incumbent’s prior constituency service, voting record, etc.\textsuperscript{14} From the incumbents’ point of view, these new areas are unknown, potentially hostile areas that require extra attention and investment to win over.

Analysis of the difference in vote between old voters and new voters suggests that the personal vote accounts for approximately half of the incumbency effect. The overall incumbency effect in a typical U. S. House race is approximately 8 to 10 percent and the estimate of the personal vote from the analysis of old and new areas is approximately 4 to 5 percent.\textsuperscript{15}

The comparison of old voters and new voters suggest that redistricting itself hurts incumbents to the extent that it changes their constituencies, thereby lowering the size of the personal vote. That fact, combined with the result that gains in partisan support tend to be small, suggests that redistricting itself tends to lower the normal avenues through which incumbents might gain electorally – that is through the partisan vote and the personal vote. Rearranging election boundaries, then, undermines the incumbency advantage at the micro-level. We turn next to the macro-level.

4. Comparing the U.S. House with Other Offices

The comparison of elections across episodes of redistricting suggests that redistricting tends to lower levels of electoral support and loyalty. This suggests that the incumbency effect is not linear, being smaller in districts that are overwhelmingly of one party (Krashensky and Milne 1993).
effect overall is muted, not inflated, by redistricting. Another way to check this is to compare offices that are districted with those that are not. Statewide offices – U.S. senator, governor, attorney general, secretary of state, treasurer and so on – are never redistricted. If redistricting were the main cause of the incumbency advantage, we would expect these offices to exhibit a small incumbency effect, or none at all.

In fact, the incumbency advantage is a general phenomenon, not one limited to offices chosen from districts. While the incumbency advantage was first noted in U.S. House elections, early studies also documented its presence in U.S. Senate elections and gubernatorial elections – offices that are not districted. Subsequent studies have found that the incumbency advantage exists in nearly every elected state office in the United States (e.g., Ansolabehere and Snyder, 2002). Moreover, incumbency advantages rose in every office from 1940 to the present, including those not districted. The incumbency advantages for offices ranging from governor and U.S. senator to State Auditor and state commissioners rose at the same time and at the same rate. In the 1940s all offices had relatively small incumbency advantages, of about 2 percentage points. During the 1950s, those advantages began to grow and their growth accelerated in the 1960s, reaching about 7 percent by 1970. The incumbency advantage has continued to creep up, rising to about 10 percent in the 1980s and 1990s. The accelerated growth of the incumbency advantage during the 1960s leads many to point to reapportionment as the culprit. However, those offices not subject to redistricting saw the same pattern of growth. The incumbency advantage is also noticeably larger for these statewide offices than for state legislatures. The coincidence between the rise of the incumbency advantage and the reapportionment cases appears to be just that, a coincidence.

In Figure 3 we reproduce an updated version of one of the figures in Ansolabehere and Snyder (2002). It shows the incumbency advantage, measured using the method in Levitt and Wolfram (1997), for U.S. House races, “higher” statewide offices, and “lower” statewide offices.\textsuperscript{16} We estimate the incumbency advantage for each group separately for each decade. The three curves track one another closely, except in the past two decades where the incumb-

\textsuperscript{16}Higher statewide offices are U.S. senator, governor, lieutenant governor, attorney general and secretary of state. The lower offices are treasurer, auditor, controller, comptroller, school superintendent, commissioner of agriculture, commissioner of corporations, commissioner of public utilities, commissioner of insurance, commissioner of mines, commissioner of labor, and commissioner of lands.
bency effect for U.S. House races drops off sharply compared to the higher statewide offices. Redistricting is clearly not the main force driving the growth and current high level of the incumbency effect for the statewide offices, since these are never redistricted.

Redistricting, then, is not a cause of incumbency effects, nor does it increase vote margins. Instead, redistricting lowers incumbents vote margins, and the more a legislator’s district changes, the worse he or she can expect to do at the polls.

5. Turnover

Incumbency-centered politics concerns more than just the expected vote received by candidates running for office; it shapes the overall rate of turnover and career lengths of politicians. Arguments that redistricting increases electoral security ultimately turn on the notion that politicians craft constituency boundaries to keep themselves in office, regardless of their electoral margins. Turnover offers the ultimate proof that redistricting on average hurts incumbents.

Consider the U.S. House of Representatives. Let $E_t$ be the percentage of representatives who “exit” in year $t$ (i.e., $t$ is the election year of their last congress). Figure 1 shows a graph of $E_t$ over time. There are usually large spikes upward during redistricting episodes, which are indicated in the figure with year numbers rather than circles. The figure also reveals the large overall decline in turnover that has occurred in the U.S. House, a phenomenon that has been discussed at length in the congressional literature.

A simple regression confirms what the graphs show. Let $R_t = 1$ if $t$ is a year ending in zero and 0 otherwise; so, $R$ denotes the last election year prior to a congressional reapportionment. We also set $R_t = 1$ for 1964 because of court-ordered redistrictings following the Baker v. Carr decision. We regress $E$ on $R$ and also include a third-order polynomial in $t$ to capture trends such as increasing professionalization and the increasing electoral advantages

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\(^{17}\)We begin the analysis in 1912 because the size of the House has been constant at 435 since then, except for 1959-1962 when the number of representatives was temporarily expanded to 437 following the admission of Alaska and Hawaii as states. We adjust accordingly in computing $E_t$. If a representative has non-contiguous periods of service, he or she will have multiple exits, one for each period.

\(^{18}\)In 1964 in Wesberry v. Sanders the Supreme Court held that all congressional districts must adhere to the one-person-one-vote standard. Almost all states redistricted during the second half of the 1960s, some more than once.
of incumbency. The results are shown in the first column of Table 4. The estimates imply that the probability of an exit is 5 percentage points higher in the last year prior to a reapportionment. Since the average exit rate over the period under study was about 20 percent, in relative terms the effect of reapportionment is substantial – on the order of 25 percent.

Figure 2 shows an analogous graph for state legislatures, aggregating across both upper and lower chambers. The second column in Table 1 shows the analogous regression. The estimated effect of redistricting is similar to that for the U.S. House, about 5 percentage points. Note also that the effects of redistricting are clearest in the post-Baker period.\footnote{In 1964 in \textit{Reynolds v. Sims} the Supreme Court held that all state legislative districts must adhere to the one-person-one-vote standard.} Note also that, as in the case of the U.S. House, average turnover in state legislatures has dropped sharply over time.

6. Conclusions

Redistricting has long been thought to create the conditions that favor incumbents in elections. That line of thinking, we find, lacks empirical support. Redistricting actually lowers incumbency advantages and vote margins and increases turnover, rather than the other way around. We have further focused on one important, recent line of thinking about the districting process – namely that the current process protects incumbents through widespread bipartisan gerrymanders that have made districts less responsive and have even produced the incumbency advantage. A closer look at the key empirical indicators of electoral competition – including the number of competitive districts, the degree of bimodality or spread in the distribution of district partisanship, and the effects of the districting process on the partisanship of incumbents’ districts – reveals little or no evidence consistent with the notion that incumbents systematically engage in bipartisan gerrymanders or that bipartisan gerrymanders have created a bimodal or skewed distribution of district partisanship. This is not to say that individual legislators and parties do not try mightily to shape the districts in their favor. They surely do. Rather, the evidence presented here suggests that incumbency protection is difficult to accomplish. There may be some districts successfully drawn to pro-
tect incumbents, but the overall picture of legislative districting does not bear that out as a systematic consequence of the redistricting process.

We might hope that by presenting a large number of empirical problems with the argument, we might succeed in putting it to rest. This would probably be overly optimistic, since we are not the first to disconfirm the argument. In the 1970s, influential papers by Ferejohn (1977) and others showed no link between these two phenomena. Several papers in the 1980s also looked for the smoking gun that redistricting inflated the incumbency effect, but found none. Even the best evidence mustered by advocates of a connection between redistricting and incumbency accounts for only about a 2 percent effect and, then only under the right circumstances. The overall incumbency effect is usually estimated to be in the range of 8 to 10 percentage points.

The link between redistricting and incumbency advantages has strong intuitive appeal. The argument gained currency in the mid 1970s shortly after the redistricting revolution of the 1960s and the observation of rising incumbency advantages in the same period. Indeed, every 10 years or so, the idea resurfaces. Most recently, Shotts (2001, 2002) and Cox and Katz (2002) provide game theoretic models, supported by some empirical evidence, showing how politicians can manipulate boundaries given the constraints imposed by the courts. Most troubling, the argument seems to have found new adherents in the debate over polarization, and it is widely believed among casual observers of contemporary U. S. politics that the structure of districts contributes to the dissensus in the country. It cannot – the distribution of district preferences is unimodal in its underlying partisanship, not bimodal.

Why this argument lives on despite repeated empirical studies to the contrary owes, we think, to three reasons. First, the coincidence is just too good. Both phenomena arose in the 1960s; could that really have been an accident? We think the answer is yes. Aldrich and Niemi (1996) describe both phenomena as part of a culture of dealignment, but see no link between them. Second, every 10 years every American state engages in bitter battles over new legislative district boundaries. These fights expose the deep interests that sitting legislators have in reinforcing their electoral security. The evidence mounted here suggests that what is really exposed is the fear associated with losing seats that are otherwise secure.
Third, political science as yet has no compelling explanation for the incumbency advantage. In the absence of such an explanation, any and every story, including those inconsistent with basic facts, inexorably live on.

We are not arguing that legislative control of the redistricting process is without problems. Quite the contrary. In the age before Baker v. Carr, legislatures had complete control over the process. In that era, malapportionment and other maladies protected the status quo ante, often by not shifting district lines at all. Today, thanks to the interventions of the courts since the 1960s, legislators are forced to draw new district lines on a regular decennial schedule. The current process has been roundly criticized for allowing legislators to skew the process. The potential for legislators to use redistricting to benefit themselves of their party is always present. However, since the 1960s, the primacy of the state legislatures in the districting process has been greatly reduced, and their authority is regularly challenged in the courts and at the ballot.

The districting process itself continues to evolve. While most states still allow their state legislatures to draw the lines, several states departed from politics as usual and experimented with commissions and other rules in 2012. California enacted a new commission, designed with firewalls against influence by the legislature. State legislators and members of Congress were not even allowed to testify at the commission’s proceedings. Arizona, Washington, Idaho, and New Jersey have similarly strong commissions. Florida amended its constitution to impose a new set of criteria, including provisions that prohibit favoring or disfavoring any incumbent or party. And, the legal wrangling over districting is as intense as ever. By Justin Levitt’s count, courts heard 190 law suits concerning redistricting in 25 different states. At the time of this writing with the 2012 election 2 months away, 69 of those suits were still active, including suits in the most populace states (California, Texas, New York, Florida, Illinois, and Pennsylvania).

Radically new procedures in states like California, Arizona, and Florida, and widespread legal challenges to legislative district plans will make 2012 a critical year not only for the composition of American legislatures, but for our understanding of how the districting process and the districting plans affects representation and electoral

\[\text{http://redistricting.lls.edu/cases.php}\]
competition. The simple prediction from our analysis is that there will not be a significant increase in incumbent reelection rates or vote margins. Rather, we expect 2012 to be one of the most difficult elections for sitting legislators in recent history.
References


Table 1
Change in District Partisanship Due to Redistricting

<table>
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<th></th>
<th></th>
<th></th>
<th></th>
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<td><strong>States with 2+ districts:</strong></td>
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<td>1.13*</td>
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<td>(493)</td>
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<td>(121)</td>
<td>(104)</td>
<td>(145)</td>
<td>(370)</td>
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Cell entries are $\Delta_D$ for Democratic incumbents and $\Delta_R$ for Republican incumbents. Entries in parentheses are $N_D$ and $N_R$, respectively. See text for details.

* = cell value is statistically different from zero at the .05 level.
## Table 2
Change in District Partisanship Due to Redistricting
By Type of Redistricting Body

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<td>(74)</td>
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<td>States with 8+ districts:</td>
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All three redistricting episodes pooled. Cell entries are $\Delta_D$ for Democratic incumbents and $\Delta_R$ for Republican incumbents. Entries in parentheses are $N_D$ and $N_R$, respectively. See text for details.
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<th>Divided</th>
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<td>(52)</td>
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All three redistricting episodes pooled. Cell entries are $\Delta_D$ for Democratic incumbents and $\Delta_R$ for Republican incumbents. Entries in parentheses are $N_D$ and $N_R$, respectively. See text for details.
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Dependent variable = E. Independent variable Reapp/Redist = R. See text for details.

Standard errors in parentheses.

* = statistically significant at the .05 level.
Figure 1(a)
Figure 1(b)
Figure 2

Democratic Normal Vote, U.S. House

Density of Vote Division

1970s

1980s

1990s

2000s

Democratic Normal Vote, U.S. House
Figure 3
Figure 4

Actual Exit Rate

Predicted Exit Rate

Year

Percent

1920

1930

1940

1950

1960

1970

1980

1990

2000

2020

2030
Figure 5