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## **Did the Extension of the Franchise Increase the Liberal Vote in Victorian Britain? Evidence from the Second Reform Act**

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# Did the Extension of the Franchise Increase the Liberal Vote in Victorian Britain? Evidence from the Second Reform Act

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**Abstract.** We use evidence from the Second Reform Act, introduced in the United Kingdom in 1867, to analyze the impact on electoral outcomes of extending the vote to the unskilled urban population. By exploiting the sharp change in the electorate caused by franchise extension, we separate the effect of reform from that of underlying constituency level traits correlated with the voting population. Although we find that the franchise affected electoral competition and candidate selection, there is no evidence that relates Liberal electoral support to changes in the franchise rules. Our results are robust to various sources of endogeneity.<sup>3</sup>

## 1. OVERVIEW AND INTRODUCTION

Several studies shed light on the relationship between franchise extension and political outcomes. Theoretical models provide plausible connections between changes in the rules governing the eligibility to vote and incentives of policy makers, leading to greater redistribution (Acemoglu and Robinson, 2000) or expansion of local public goods (Lizzeri and Persico, 2004). Empirical studies exploit variation in electoral rules across countries (Lindert, 1997, 2004), and US states (Husted and Kenny, 1997), to explore the effects of franchise extension on redistribution and provide evidence for a positive relationship between these variables. In this paper we explore the political mechanism that links changes in the franchise to outcomes. In principle, policy changes caused by franchise extension could arise due to several factors, *inter alia*, the voting behavior of newly enfranchised citizens, differences in party competition, candidacy and incumbency effects, or differences in agenda-setting and voting behavior of political elites.

Analysis of specific franchise extensions can help isolate these different effects. An important test case is the Second Reform Act in the United Kingdom. This extended the franchise to the unskilled urban population, with an overall increase in the 1867 voting population in England, Scotland, and Wales of 97%. To analyze the impact of franchise extension on political outcomes in the United Kingdom during this period, we exploit the constituency level variation in the voting population

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that arose from the reform. There are few studies that analyze the impact of franchise extension at such a local level.<sup>4</sup> Doing so allows us to understand the political mechanisms at work and can provide new insights into rival hypothesis about the underlying causes and effects of the reforms.

Historians of the period have been puzzled by the exact nature of the reforms and most have seen extension of the franchise as related to competition between the Liberal and Conservative parties, and tensions between their two great leaders, Disraeli and Gladstone. There are, however, several reasons why franchise extension is unlikely to be related to inter-party political calculations. The Second Reform Act of 1867 preceded the election of the first ever unequivocally Liberal administration in 1868, and ushered in a period of radical reform. The Reform Act was more extensive than a Liberal measure that had failed to pass in the Commons in the previous year. The Act was, however, introduced by a minority Conservative government, whose main constituency was the rural voters. Finally, and critically, the Reform Act of 1867 increased the voting population in precisely those urban areas likely to be sympathetic to the Liberals.

The argument is nicely summarized by Acemoglu and Robinson (2000): “as the result of the split over the Corn Laws, support for the Conservative party was essentially concentrated in rural areas, with Tory landowners exerting substantial control over the electorate in the absence of a secret ballot. The reform measure passed under Disraeli increased the voting population by only 45 percent in counties, compared to 145 percent in the boroughs, effectively ensuring a Conservative defeat in the following elections.”

The outcome of the 1868 general election- a comfortable victory for the Liberals- can then be considered as evidence against the view that franchise extension arose due to such internal party political considerations and suggests instead that franchise extension originated as a response to popular pressure for reform. This claim would be stronger if the extension of the franchise, initiated by the Conservative government, could be causally linked to the election of a Liberal government with a reforming agenda. Although the extension of the franchise was correlated with Liberal success, and hence the introduction of their radical agenda, it is as yet unproven that the change in rules concerning voter eligibility contributed to that success. Whilst we cannot directly observe the counterfactual - the electoral outcome had the electoral rules established in 1832 remained in place- a careful identification strategy provides a second best solution that allows us to understand the impact of change in the voting population.

Three features of the Second Reform Act allow us to identify the impact of the change in the rules concerning eligibility to vote on the political outcomes of subsequent elections. Firstly, the extent and impact of the Second Reform Act was largely unanticipated. Indeed Disraeli’s strategy was famously described by Lord Cranbourne, a senior minister who resigned from cabinet over the

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<sup>4</sup>An exception is Aidt et al. (2009) who look at the impact of changes in the local government franchise in the UK in the 19th century, showing a non-monotonic relationship between inequality and the provision of local goods.

issue, as a “leap in the dark”. Secondly, we show that there was a large amount of variability with regard to the effect of the change in the electoral rules on the eligible voting population at the constituency level that can plausibly be related to political outcomes. Thirdly, unlike previous and later reforms, the extension of the franchise in 1867 was uncorrelated with other constitutional changes that would confound any attempt to isolate the causal impact of reform.

For most of our analysis, we look at a sample of boroughs where franchise reform was not associated with any change in the constituency boundaries or the number of parliamentary seats to be filled between the general elections of 1865 and 1868. Exploiting the constituency level variation in the impact of franchise reform in this sample - to separate its effect from that of underlying constituency level traits correlated with the voting population - and controlling for a national swing, we thus isolate the effect on Liberal support that is due to the impact of the extension of the franchise from that of other factors that may have led to the Liberal victory in 1868. We then ask whether the constituency level expansion of the franchise due to the new electoral law introduced in 1867 provided a source of advantage for the Liberal Party.

We first explore whether the differences in the constituency level franchise were related to change in the structure of party competition between the Liberals and Conservatives. Before the Second Reform Act many seats were uncontested. In these constituencies no ballots were cast; either one party received all seats unopposed, or both parties agreed the share of seats to be allocated. A possible source of Liberal advantage is that, under the new franchise rules, they could contest a larger share of constituency level seats. Unsurprisingly we find that the number of uncontested seats declines sharply, and more so in the constituencies most affected by reform. Moreover, we find that, overall, there is an increase in the ratio of candidates to seats and that this is due to greater contestation by Liberal candidates. The evidence also suggests that incumbents were less likely to run in areas most affected by reform.

However, and despite differences in the nature of party and candidate competition at the constituency level, we find no evidence suggesting the direct outcome of the election was related to franchise reform. Neither the differences in the Liberal share of votes, or the percentage of seats won by Liberal candidates, can be explained by changes to the rules governing the eligibility to vote. Thus, our analysis suggests that the outcome of the election in 1868 - a victory for the Liberal Party under Gladstone- was incidental to the major reform in the voting franchise that took place in 1867.

Extending our analysis, we explore possible causes for our null findings. The first involves measurement error that arises because we do not directly observe the relevant population (those eligible to vote under the new rules), but rather a subset of the eligible voting population who registered to vote. If the ratio of registered voters to population is not constant between the two elections analyzed, the impact of change in the voting population may be biased downwards.

A second cause of our null findings relates to reverse causality that may bias downwards our estimates of a marginal increase in the voting franchise in a given constituency. It is possible that, at the margin, the reforms were administered in such a way that their effect was less in those areas where Liberal support was growing more quickly. We should not overemphasize this issue. By itself, extension of the franchise is a blunt tool for seeking political advantage. It was not possible for Disraeli to cherry-pick conservative voting groups to be given the vote. Furthermore, and as we show, the Second Reform Act brought into the voting population almost all of the urban unskilled working population. Nevertheless, and to deal with both the issue of measurement error and reverse causality, we instrument the change in the level of enfranchised voters and we study pre-trends in the outcomes of interest. Doing so yields no systematic change in our results: we find no evidence to support the view that the Liberals became stronger in those areas most affected by electoral reform.

Finally, Conservative incumbents may have adapted their views in order to appeal to their new electorate. To explore this issue we analyze the parliamentary voting behavior of Members of Parliament (MPs) in this period. In particular, we focus our attention on the Abolition of Church Rates Bill introduced in the parliamentary sessions of 1866 and 1867. Church rates were personal taxes on property owners that were used to support the established church. There was popular agitation to abolish them and support for abolition was divided along party lines. Due to the constraints of the parliamentary timetable, we observe MPs' voting behavior before and after the Second Reform Act bill was introduced into parliament. We find no evidence suggesting that the intensity of the forthcoming expansion of the franchise was related to changes in voting behavior on the Abolition of Church Rates Bill.

We begin our analysis in the following section by providing background information on the Second Reform Act. We then look at why the nature of the reform has puzzled historians of the period as well as contemporary political economists. In section 4 we describe our data. In section 5 we present our identification strategy. In section 6 we present our main estimates. Section 7 looks at the robustness of our results when analyzing different samples, taking into account possible endogeneity, and exploring possible medium run effects of the reform act. Section 8 discusses possible changes in MPs voting behavior that could have been caused by the forthcoming franchise extension. Finally section 9 concludes.

## 2. BACKGROUND: ELECTORAL REFORM AND THE SECOND REFORM ACT

Elections in Britain in the Victorian period under investigation took place under the first-past-the-post voting system that is still in place. Whilst some constituencies were single-member districts, most constituencies elected two candidates and a few elected three and four. The constituency elections were contested by candidates who aligned with one of two major parties, the Conservatives

and the Liberals. The Liberals brought together a loose coalition of Whigs, Radicals, and Peelites (a faction that had broken from the Conservatives) and by 1860 formed a cohesive parliamentary block. Following Lord Palmerston's death in 1865 the Liberals were led by William Gladstone. For the immediate period preceding the elections of our investigation, Liberals had held the key ministries of government. However, between 1865 and 1868 the Conservatives formed a minority government, first under Lord Derby and then under Benjamin Disraeli.

The Representation of the Peoples Act, otherwise known as the Second Reform Act, was passed by Parliament on August 15th, 1867. As its name suggests it was the second major voting reform bill that transformed the political landscape in the Great Britain. The first major extension of the franchise in the UK took place in 1832. The Great Reform Act of that year introduced several measures that mitigated malapportionment: increasing representation in the industrialized cities, and taking away seats from the so-called "rotten boroughs" with small voting populations. The act also increased the male franchise to around 650,000.

The Second Reform Act, that became law in England and Wales in 1867, extended the franchise in the boroughs to all males over the age of 21 who were inhabitant occupiers, whether house-owners or tenants, and to male lodgers whose rent was at least £10 per year. A residence of at least one year in the borough was required and women were still unable to vote. In counties, the franchise was extended to holders of life interests, copyholds and leases of sixty years and more worth £5 per annum (from a previous threshold of £10) and to tenants occupying land worth £12 (from a previous threshold of £50 per annum). The Reform Acts for Scotland was delivered in 1868.<sup>5</sup> The reforms were swiftly followed by the election of a new parliament in 1868. This provides us with a unique window of opportunity for identifying the impact of franchise extension.

Later Reform Acts introduced the secret ballot (1872), placed the counties on an equal footing with the urban boroughs (1884), reduced the number of multiple member districts (1885), extended the franchise to all males (1918), and provided women with electoral equality (1928). The full time line of reforms since 1832 is provided in Figure 1.

Table 1 presents the number of registered electors in 1859, 1865, 1868 and 1874 for England, Wales, and Scotland in both boroughs and counties.<sup>6</sup> It is clear that the Reform Act led to an increase in the franchise not witnessed either before or after the 1868 election. From 1859 to 1865 the registered electorate in England, Scotland and Wales increased by 7% and from 1868 to 1874 by 12%; this compares with a 97% increase between 1865 to 1868. Overall the franchise included more than 1,000,000 newly registered electors. The increase was more marked in the more densely populated urban boroughs where the franchise increased (on average) by 152% with respect to a

<sup>5</sup>Ireland had a reform act in 1868 but unlike in England, Scotland and Wales the impact of the reform on registered voters was marginal.

<sup>6</sup>These figures exclude the electors registered in the university constituencies which were allowed to vote both in the university constituency and in their town of residence



47% increase in counties. Indeed historians have noted that the most striking feature of the Second Reform Act was the unexpectedly wide extension of the franchise in the boroughs, when compared to the counties.

The Reform Act brought into the franchise voters from previously unenfranchised income brackets. Who were the new voters? Mackenzie (1921) and Bowley (1937) estimate the income of the head of the household at median, quartile and lowest decile of the income distribution in 1860. Mackenzie (1921) also provides estimates of household budgets for a typical family (man, wife, and 3 schoolchildren) which include the amount paid for rent. We present this information in Table 2 which shows that the annual income of a head of household in the upper quartile of the income distribution was more than £70; typically he was a semi-skilled worker (e.g, a brick-layer) and paid an annual rent in excess of £10.<sup>7</sup> The annual income of the head of household in the lower quartile was around 60 percent of that in the upper quartile; this would typically be the income of an unskilled worker (e.g., brick-layer laborer) and paid an annual rent in excess of £6. At the median of the income distribution the rent paid was close to £8. Although the calculations are obviously rough, given the data limitations, they help us to illustrate the type of households that gained the vote under the new franchise: it is clear that the extension of the franchise gave the vote to urban unskilled workers.<sup>8</sup>

### 3. INTERPRETATIONS OF THE SECOND REFORM ACT

The Second Reform Act of 1867 was introduced by the Conservative government lead by Lord Derby, though most historians view Disraeli as its prime architect. Electoral reform had been considered for some time before the passing of the 1867 reform. Indeed a reform bill proposed by the Liberals lead by Earl Russell had been defeated by a coalition of Conservatives and Liberals opposed to reform in 1866.<sup>9</sup>The fact that the reform bill of 1867 was introduced by a minority Conservative government, supported by backbench Conservatives, and that the reforms lead to a far greater increase in the franchise than would have been possible had the original Liberal reforms passed, has puzzled historians and commentators of the time.

One can take different views on why Disraeli pursued this course. The most obvious is that he believed the Conservatives could reap rewards. Nineteenth century commentators such as Bagehot explained the reform as part of Disraeli's vision of a 'Tory Democracy' that would appeal to the conservative instincts of the British working classes, or at least the more highly skilled elements of the working class who received the vote (Shanon, 1992). So Disraeli's strategy can be seen as

<sup>7</sup>At the time 1 pound = 20 shillings and 1 shilling = 12 cents.

<sup>8</sup>Those in the lowest decile of the income distribution (the agricultural laborers) were only enfranchised in 1884.

<sup>9</sup>Earl Russell also failed to pass an electoral reform bill in 1860. Interestingly, neither Disraeli or Palmerston mentioned electoral reform in their electoral addresses in 1865. The death of Palmerston -elected as Prime Minister after the 1865 election- changed government policy and lead the Liberals to put the issue back on the table ((Seymour, 1915)).

part of his grander vision of one-nation conservatism- an attempt to build a majority Conservative party that appealed to different elements of British society (Himmelfarb, 1966). A related view is that Disraeli hoped to secure an electoral advantage by exploiting divisions within the Liberal party over the issue. Further, in outsmarting his erstwhile rival Gladstone by passing a more radical bill than the Liberals had been able to, he hoped to reveal deficiencies in Gladstone as leader and parliamentarian (Jenkins (1996)).

An opposite view is that the extension of the franchise was related to external threats to the established political order, rather than inter-party disputes. Acemoglu and Robinson (2000) analyze the political economy of franchise extension and offer a compelling account of how franchise extension relates to fiscal redistribution. In their model, which is largely motivated by the Second Reform Act, an elite, which faces the threat of social revolution, has incentives to raise taxes to levels desired under a democracy. The ability of workers to extract concessions is transitory and arises only in periods of economic growth. An elite is thus unable to credibly commit to a redistributory tax policy when growth is stochastic and so are unable to assuage unrest. Extension of the franchise allows for a durable compromise in which the wealthy can make credible commitments of moderate redistribution that would dampen agitation for more radical economic reform. According to this view, events such as the Hyde park riots in 1866 and 1867 -in which supporters of the Reform League were involved in violent clashes with the police- were critical in shaping political incentives during this period, and forced an elite sceptical about reform to nevertheless embark upon the path of enfranchising the working classes.

Acemoglu and Robinson's theory brings together several disparate parts of this Victorian puzzle- the fact that the reform bill was passed by a Conservative government, and that the election was won by a reforming Liberal party, who arguably went on to transform British society with a series of radical measures. The critical piece of the puzzle is the fact that the reforms were designed to increase the vote share disproportionately in urban boroughs relative to the counties, despite the fact that the latter provided the bedrock for Conservative support. This feature of the reform lends support to the view that the reforms could *only* have benefited the Liberals and so can not plausibly be connected to electorally motivated considerations by the architects of the reform. Moreover, an immediate glance at the data provided in Table 1, that highlights the predominant impact of the reforms in the boroughs, tends to support the hunch that Liberal success was likely attributable to the precise nature of the reforms.

However, there are many mechanisms that can link franchise extension to change in political outcomes. The Liberal success in 1868 may have been due to the incorporation into the franchise of low skilled workers with an average income lower than that found in the pre-existing franchise. Thus, fixing all aspects of competition between the Liberals and Conservatives, the inclusion of a new block of voters may, in and of itself, account for the immediate political outcomes. But of



course, the parties responded to the new situation: the Liberal party may have been attracted by the prospect of competing in constituencies where previously the Conservatives had run unopposed; or increasing its share of constituency level candidates. Another avenue by which the reforms might impact on political outcomes is in providing incentives for parties to put forward different types of candidates, as changes in candidacy provides a mechanism by which the parties could credibly appeal to their new electorate.

Whilst there are different mechanisms that might link franchise reform to the immediate political outcomes of the 1868 election, another view should also be considered - namely that the reforms had little effect on those outcomes. Whilst Disraeli did not wish to be seen to stand in the way of reform, he may well have believed that the reforms themselves would not damage the Conservatives. Indeed Disraeli's vision of "one-nation" conservatism suggests his belief in the inherently conservative credentials of the new working class voters.

There is evidence to support this view: Gash (1953) has highlighted the essentially conservative character of the Victorian electorate; whereas Vincent (1968) showed that the social basis of voting behavior was underdeveloped in this period, with voters casting their ballots on local and symbolic issues. Thus, although members of Disraeli's government were horrified at the thought of expanding the Liberal voting base, it was not clear at the time that the extension of the franchise would have this effect. Although some historians believe that the sympathies of the newly enfranchised workers lay with the Liberals (see, for example, Whitfield (2001),p239), the voting behavior of Victorian Britons, and the link between their behavior and the actions of their representatives, was poorly understood as testified by contemporary social historians.

The preceding discussion presents many unanswered questions. Acemoglu and Robinson present a compelling argument, largely based on the outcome of a Liberal victory in 1868, that reform was unrelated to party political consideration. Yet it is unclear to what extent the different parts of the puzzle are in fact causally linked. In particular, as yet, there is little evidence that suggests that the extension of the franchise under the Second Reform Act did in fact lead to an increase in the Liberal vote in 1868. Answering this question requires a careful investigation of the electoral data.

#### 4. DATA AND DESCRIPTIVE STATISTICS

Our data is gathered from Craig (1989), *British Parliamentary Election Results, 1832-1885*, which provides, for all national elections and by constituency, information on: number of seats, boundary changes, registered voters, name of candidates running, party of candidates, and votes per candidate. We also make use of the national population census 1861 and 1871 as reported in Vincent and Stenton (1971), *McCalmont's Parliamentary Poll Book*.

In order to identify the impact of the franchise extension we must be able to isolate its effect from other possibly confounding institutional factors. Whilst the extension of the franchise in 1867 coincided with a level of redistricting -some constituencies which previously had two Members of Parliament were reduced to one, or increased to three, some constituencies were eradicated, whilst others merged- unlike in 1832, in most constituencies the only major district level change was the increase in the franchise. Our focus on this period thus allows us to separate the effect of franchise extension on political behavior from other possibly confounding effects at the constituency level, in a way that an analysis of the earlier and posterior Reform Acts cannot.

Table 3 provides details of the total number of constituencies and seats in England, Scotland and Wales during the 1859, 1865, 1868, and 1874 general elections as well as changes that arise during this period of reform (see, Craig (1989)). There were a total of 349 constituencies and 546 seats in the 1868 election with 304 constituencies appearing in all four elections. The difference between these numbers is explained by the fact that some constituencies were either newly created or de-franchised during the period of analysis. From those constituencies that appear in all four elections only 43 experienced changes in the number of seats. Finally, there are 113 boroughs (with a total of 171 seats) and 60 counties (with a total of 95 seats) that do not experience either changes in seats or boundaries and appear in all four elections. Whilst most of our results rely on this restricted sample, that allows us to isolate the effect of changing the franchise rules from other institutional factors, we also show that our main results are robust to the inclusion of a broader range of constituencies.

In the period of study, the nature of political competition was remarkably different in counties and boroughs. As explained by (Hanham (1959), p7): “Village and tenant farmers generally voted along with their landlord not only because it was the accepted custom, but also because in everyday life the ordinary tenant was consciously dependant on the goodwill of his landlord”. In fact, political competition was so weak in the counties that in 1865, for example, 67 percent of counties’ constituency MPs were elected unopposed (i.e., without votes being cast). By contrast, in 1865 only 39 percent of borough MPs were elected unopposed. It was also the case that the different nature of electoral reform in boroughs and the counties had differential effects on the type of voters who were newly enfranchised. For these reasons we focus our main analysis in the boroughs. We show results for the Counties in our robustness checks.

Figure 2 (Panel A) presents kernel densities for the logged difference in the registered voters between 1865 and 1868 for the sample of boroughs without changes in boundaries and seats. An immediate and important observation is the wide variance in the effect of franchise extension in these constituencies. In some boroughs the changes in the voting rules had little discernible impact on the number of eligible voters, whereas in others the size of the (registered) electorate increased considerably. Adopting the language of the experimental literature- we can view the extension of the franchise as a ‘treatment’ that varies in intensity, ranging from (just below) 0 to (just over)

2 with an average around 1. There are also substantive cross-sectional differences in the proportion of the population in a given constituency registered to vote in 1865 and, particularly, in 1868. This is described in Figure 2 (Panel B) that presents density estimates of proportion of registered electorates to population per Borough in 1865 and 1868.

Table 4 provides further information on characteristics determining larger changes in electoral registration. We first examine how the franchise extension in 1867 relates to the (logarithm of) registered electorates in 1832. In column 1, we observe that the growth in voter registration is negatively and strongly correlated with the level of registered voters in 1832. In column 2, we add changes in the population size from 1871 to 1861 and find similar results. In columns (3) and (4), we look at the effect of the log of the level of population in 1861. The results in this case are also negative but less strong. In columns (5) and (6), we include both the log level of the electorate in 1832 and population in 1861. *Ceteris paribus*, the electorate grew slower where the (log of) registered electors in 1832 was larger and faster where the (log of) population 1861 was larger.

Constituency level voting behavior in Victorian Britain was affected by the menu of choices on offer, that in turn reflected the strategic calculations made by parties. In the 1868 election some constituencies were single member districts, some had two members, and a few retained three and four members. An immediate political measure that we observe is the number of contested seats. In 1865 and 1868 it was still the practice that, in some constituencies, Liberal or Conservative candidates would run unopposed. And in some multi-member districts the division of seats was agreed between the major parties before hand. As our results show this aspect of political collusion decreased sharply with the passing of the Second Reform Act. We investigate whether the share of uncontested seats in a constituency, which provides an indirect channel by which the extension of the franchise can shape the electoral outcomes, is causally related to the franchise extension. In addition, we assess whether the reform affected the number of candidates running per seat in a given constituency. Furthermore, we look at whether there was a relative increase in those running under the Liberal party label.

In our main analysis we concentrate on the constituency level impact of reform on electoral outcomes. We start by looking at two indicators of Liberal strength that are directly related to the behavior of the voting population. First, we look at the proportion of constituency level seats won by the liberal party. Second, for those constituencies where the elections were not unopposed, we look at the share of the liberal vote.<sup>10</sup> Finally, we analyze voter turnout by looking at the average number of votes per seat over the number of registered electors.

<sup>10</sup>From the 452 election results we analyze (i.e., 113 constituencies over 4 national elections) a small number of elections (16 in total) were void after petitions. Craig (1989) reports votes cast in the original election and the winner as determined by electoral tribunal. We follow this procedure in assigning seats and votes to parties. However, in some cases a new election was run, usually at a much later date. In such cases we keep the results of the original election.

Our analysis also looks at the issue of candidate selection. First, we explore the ratio of incumbents running to seats available in each constituency, and, disaggregating further, we study the proportion of Liberal incumbents who run again in the same electoral district.<sup>11</sup> Following the same logic, we also look at the share of candidates who lose in the previous election but who stand again in the same constituency.

Table 5 provides summary statistics on the outcomes we have described for our sample of boroughs (without changes in seats and boundaries) during four national elections (1859, 1865, 1868 and 1874). The average constituency more than doubles in size between 1865 and 1868. During the same period the average Liberal vote-share increases from 63% to 66%, and the share of Liberal seats increases by 4 percentage points from 73% to 77%.

Turning to the competitiveness of the constituency races in our sample of boroughs, 37% of constituencies returned candidates without any votes being cast in 1865, whereas in 1868 the percentage of uncontested seats falls sharply to 23%. The candidate to seat ratio also increased across the period, and in particular from 1.51 to 1.70 in the elections immediately either side of the Second Reform Act. The average Liberal candidate to seat ratio increases accordingly, from 0.97 to 1.12.

The share of incumbents who run increases from 57% to 67% and we observe that this increase is also true of Liberal incumbents: 40% of Liberal candidates were sitting incumbents in 1865, and this increases to 53% in 1868. The rate of retention of losing candidates is higher: only 5% of candidates in 1865 had lost the same seat in the previous election and this increases to 7% in 1868, with a similar rate of increase seen amongst losing Liberal candidates.

These statistics suggest that the change in the electoral rules accompanied an increase in political competitiveness and a corresponding increase in the average constituency level share of Liberal candidates, seats and votes. We now turn to analyze whether there is any causal relation between the institutional change and these political outcomes.

## 5. EMPIRICAL STRATEGY: IDENTIFYING THE EFFECT OF FRANCHISE EXTENSION ON POLITICAL OUTCOMES

To understand how political outcomes are causally related to the change in rules governing the eligibility to vote, we need to isolate the effect of a change in the franchise from other possibly confounding factors. Although franchise extension was applied nationally and simultaneously in all constituencies, the magnitude of the change at the constituency level reflects local conditions. In particular the local impact of a change in the electoral law is related to the constituency level distribution of income and housing in 1867. In estimating the causal effect of franchise expansion on political outcomes we face the problem that the change in franchise is systematically related to

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<sup>11</sup>Our incumbency measure does not adjust for the results of by-elections.

a set of constituency level characteristics that are likely to have an independent effect on political outcomes. Without controlling for these local characteristics, our estimates are likely to be biased due to omitted variables.

A second factor we need to consider when estimating the impact of franchise extension is the national swing toward the Liberals in 1868. If were to ignore this effect then some portion of our estimate of an increase in the franchise at the constituency level may in fact be due to factors uncorrelated with the impact of this institutional change. To avoid the possibility of a spurious correlation that may arise, we need to control for the underlying trend in Liberal support that is the same across constituencies.

As long as this differential impact of the reform on franchise levels is driven by community characteristics that are fixed overtime (or that vary slowly), we can measure the impact of franchise extension by comparing the differences in outcomes between communities where franchise levels vary by different amounts. Thus we estimate the following benchmark model for constituency  $j$  at time  $t$ :

$$\Delta Y_{jt} = \alpha_0 + \beta_1 \Delta \text{Log}(R_{jt}) + \epsilon_{jt} \quad (1)$$

where  $Y_{jt}$  is one of our outcomes of interest and  $\Delta Y_{jt}$  represents the difference between 1865 and 1868 in this indicator;  $\Delta \text{Log}(R_{jt})$  is the difference in the log of constituency level registered voters between 1865 and 1868; and, finally,  $\epsilon_i$  is a random error term.<sup>12</sup>

If the franchise level is the ratio of registered voters to the relevant constituency population then, provided that the population remains fixed or its change is uncorrelated with changes in  $R_{jt}$ , equation (1) is similar to regressing  $\Delta Y_{jt}$  on the log difference in franchise levels. Because this may not be the case we also present estimates where we control for the change in the local population by including the (logged) difference between the population in 1861 and 1871, via the term  $\Delta \text{Log}(P_{jt})$ . Including this term we then estimate

$$\Delta Y_{jt} = \alpha_0 + \beta_1 \Delta \text{Log}(R_{jt}) + \gamma \Delta \text{Log}(P_{jt}) + \epsilon_{jt}. \quad (2)$$

The parameter of interest in equation (1) and (2) is  $\beta$ , the causal effect of changes in the franchise on electoral outcomes.

Our empirical strategy goes a long way towards controlling for potential confounders in the relationship between franchise extension and political outcomes. It seems unlikely that, given the abrupt and unexpected change to the constituency franchise and the immediacy of the 1868 election, local trends in population, income, or wealth, could be systematically correlated with the

<sup>12</sup>This model in first-differences is equivalent to one in levels with constituency fixed effects and a time dummy.

expansion in the franchise. However, our identification strategy may still suffer from concerns about the exogeneity of our measure of franchise expansion.

The first issue concerns reverse causality. If, and as some historians have claimed, the reforms were designed to maximize the Conservative vote share, or at least minimize their losses, then the difference in the constituency level voting population should reflect the expected vote shares in the constituency. For example, some historians have claimed that Disraeli was prepared to abandon the boroughs that would return Liberal candidates under any voting rule. The first differences eliminate the constituency fixed effect and so assuages this concern to a large part. However, the largest change in the electorate may have occurred in areas where support for the Liberals was growing relatively fast. If this is so then our estimates will be biased downwards. One way to test this hypothesis is by looking at the difference in electoral outcomes between 1865 and 1859 and its correlation with the change in the local franchise between 1868 and 1865.

A second concern is measurement error: when using registered electors as a measure of enfranchised voters we do not capture all citizens who are eligible to vote. In particular,

$$R_{jt} = r_{jt}E_{jt}$$

where  $E_{jt}$  is eligible voters and  $r_{jt}$  is the registration rate. If the registration rate is constant over time across constituencies,  $r_{jt} = r_j$ , then first differencing the logarithm of this expression eliminates the common error. However, if this error varies over time, we are subject to the traditional downwards bias even when measurement error is uncorrelated with  $E_{jt}$ .

Our main strategy to assess this problem is to instrument for the change in the difference in the constituency electorate by using the level of the electorate in 1832 and the population size in 1861.<sup>13</sup> These variables can then be used as instruments under the assumption that they are correlated with changes in the electorate but not directly correlated with subsequent changes in the outcomes. Additionally, if these are valid instruments, they help evaluate the claim of reverse causality.

## 6. RESULTS

We begin our analysis by focussing on how the change to the electoral rules affected party competition between the Liberals and Conservatives at the constituency level. This is an important aspect of the reform, since choices made by voters in this landmark election depended upon the menu of options available to them which, in turn, reflected the strategic choices made by candidates responding to their new electoral environment.

<sup>13</sup>This is equivalent in the fixed effects strategy to instrumenting using the interaction between the year dummy and the log (electorate 1832) and log (population 1861).



As seen in Table 5, only 63% of seats were contested by both parties in 1865, though this falls sharply in 1868, and in some constituencies the seats were shared without an electoral contest taking place.<sup>14</sup> A key strategic choice facing parties was where to run their candidates (and where not to run them) thereby allowing parties to best target their resources. Moreover, upon entering an electoral contest a decision was made on how many candidates to run. Most constituencies in 1868 were multi-member districts, thus providing a strategic incentive for parties to run with more than one candidate. Moreover, in this way a candidate and his running mate would share the cost of electioneering. Doing so was not without risk, however. Voters were not constrained to cast their votes for the same party and split-ticket voting was common. Moreover, a party that had little chance of winning more than one seat ran the risk of splitting its vote between its candidates, thereby handing an advantage to their opponents, if running more than a single candidate.

We present our analysis in Table 6 which shows estimates for equations (1) and (2) when exploring the effect of the franchise extension on the ratio of candidates to seats, the share of seats that were uncontested in each constituency and, critically, the share of candidates at the constituency level who were Liberal.

The first effect we look at is the ratio of candidates to seats. The first column records the impact of the change in the log of the electorate on the change in this ratio between 1865 and 1868, the second column looks at the same outcome conditioned on the change in (the log of) constituency population as well.<sup>15</sup> The ratio of candidates to seats increases and by more in those areas most affected by reform. Indeed our estimates in column 2 show that a 100% increase in the registered electorate corresponds to a 29% rise in the ratio of the number of candidates running to seats available.<sup>16</sup>

Part of the effect that is recorded in columns 1 and 2 of Table 6 is due to the decrease in the number of uncontested seats. Indeed, our estimates in columns 3 and 4 show that a decrease in uncontested seats is causally related to the impact of the reform at the constituency level. The estimate in column 4 suggest that a 100% increase in the registered electorate leads to a statistically significant 22% decrease in the share of uncontested seats. A key question is whether the overall increase in party competition is driven by greater contestation by Liberal candidates. Our estimates in columns 5 and 6 show that, not only is there an increase in party competition that can be causally related to the change in the electoral rules, but that this entire effect is driven by greater contestation

<sup>14</sup>See Lloyd (1965) for a history of uncontested seats between 1852 and 1910.

<sup>15</sup>Recall that, since we restrict our sample to those constituencies where the number of seats remains the same, the difference within a constituency between 1865 and 1868 is driven by an increase in the number of candidates.

<sup>16</sup>Note that a 100% change in the franchise is equivalent to a change in the difference in logs, our causing variable, of around 0.693 (i.e.,  $\ln(2)$ ).

by Liberal candidates.<sup>17</sup> In short, our estimates show that more candidates ran in the areas most affected by reforms, and that these additional candidates stood under the Liberal label.

Did the increase in contestation by Liberal candidates supply an electoral advantage to the Liberals that can be related to the reforms? To answer this question we can explore how the reforms affected voting at the constituency level. We present our analysis in Table 7 which shows estimates for equations (1) and (2) when exploring the effect of the franchise extension on the constituency share of seats won by the Liberals, the Liberal share of the vote, and voter turnout. As before, the first column records the impact of the difference in the log of the electorate on the difference in the share of constituency seats won by the Liberals between 1868 and 1865, whilst the second column looks at the same outcome conditioning on the difference in (the logs of) constituency population. Perhaps surprisingly the effect of franchise extension is negative, small and statistically insignificant. For example, taking column 2, a 100% increase in the registered electorate leads to a 4% fall in the share of liberal seats. Columns 3 and 4 analyze whether there is any evidence relating the change in the constituency level franchise to the change in the Liberal share of the constituency level vote. The estimates are positive, as expected, but the magnitude of the effect is small and non-statistically significant. For example, in column 4, a 100% increase in the registered electorate leads to a 4% increase in the Liberal share of the vote.

Finally, the fifth and sixth columns of Table 7 estimate the effect of franchise extension on voter turnout. Our estimates suggest that the difference in turnout between 1865 and 1868 is somewhat lower in areas where the impact of franchise extension was largest. When including a control for population change we find that the a 100% increase in the registered electorate corresponds with a 7% decrease in turnout, and thus an immediate consequence of changing the electoral rules was a slight dampen of turnout in those areas most affected by reform.

Combining the results in Tables 6 and 7 for the period 1865-1868, and once we account for a trend toward the Liberals that affects all constituencies, as well as constituency fixed traits, we are left with a stark conclusion: although the Liberals responded to the new electoral environment by increasing the number of candidates running and contesting more seats, this did not feed into greater support for Liberal candidates or an increase in the Liberal vote share. Thus, although the Liberals were successful in winning the election in 1868, the outcome is not causally related to the reform of the franchise introduced in 1867.

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<sup>17</sup>The number of candidates, the numerator in the outcome for columns 1 and 2, is the sum of candidates running under the liberal and conservative party labels. Therefore, if the denominator in columns 1, 2, 5 and 6 is the same for every election, the coefficient that results from regressing candidate to seat ratio against any time varying variable is identical to the sum of the coefficients that will result using liberal candidates to seat ratio and conservative candidates to seat ratio as outcomes. Thus, the coefficient on the franchise variable for the outcome conservative candidate to seat ratio is the difference between column 1 (2) and 5 (6).

Probing further we ask whether this result is due to strategic considerations of candidates, influenced perhaps by party pressures, that arose as a result of the reforms. Was a perceived Liberal advantage in the electoral market nullified by the reaction of Conservative candidates?

The introduction to the franchise of a large number of unskilled workers may have affected the strategic choice of sitting incumbents whether to run again in the same constituency. A particular source of Tory disadvantage was that, as the party of the gentry, their established candidates may have been deemed out of touch with the concerns of the new electorate. It seems likely that such incumbents would be less inclined to run in those constituencies where franchise extension was largest. The replacement of these incumbents, with candidates more likely to be elected, may then have nullified a Liberal advantage.

Our estimates, shown in Table 8, confirm that the retention of incumbents decreases in those areas most affected by reform: for example in column 2, a 100% increase in the registered electorate in a constituency leads to a 21% reduction in the share of incumbents running for office. However, turning to columns (3) and (4) of Table 8 we observe, perhaps surprisingly, more than 70 percent of this effect is driven by the change in the share of Liberal incumbents.

In the remaining columns in Table 8 we explore the impact of reform on the attrition rate of candidates who had lost in the 1865. We fail to reject the null hypothesis that the decision of a candidate who lost in 1865 to run in the same constituency in 1868 was unaffected by the impact of the electoral reform in the constituency. Though we note, from Table 5, that only 7% of candidates running in 1868 were losing candidates in 1865.

## 7. ROBUSTNESS CHECKS

Our estimates do not show any conclusive evidence that the Liberal victory in 1868 was related to the change in rules governing the eligibility to vote in this election. Our findings suggest that, although the nature of the political contest between the Liberals and Conservatives would have been different if the old rules had remained in place in 1868, the outcome would have been the same. In this section we assess how robust are our null findings.

**7.1. Extending the sample of constituencies.** We explore whether our results change when we consider different constituency samples. Redistricting is a politically charged issue, the more so in light of a major change in the vote eligibility requirements. For this reason, thus far, we restricted our sample to those boroughs not affected by boundary change. In panel A of Table 9 we extend our analysis to include those boroughs where boundaries changed and show that our main findings hold when considering this somewhat larger sample. For brevity we concentrate on the regressions that control for population change. We fail to reject the null hypothesis of no relationship between increase in the constituency level voting population and the Liberal share of votes or the share of

elected Liberal candidates. Although the results on the nature of constituency level competition and incumbency are similar in sign to those for the sample analyzed in the previous section, they are smaller in magnitude (between one half and one third smaller than in previous tables) and tend to be statistically insignificant.

In panel B of Table 9, we explore whether our results change when using a sample including all boroughs irrespective of any change in the number of seats.<sup>18</sup> For this sample, whilst we fail to reject the null hypothesis of no relationship between franchise extension and electoral outcomes, we do find evidence that political competition changed in areas most affected by reform. Our estimates of the candidate-seat ratio are somewhat smaller than those reported in Table 6: a 100% increase in the franchise corresponds with a 13% increase in the candidate to seat ratio, and, as before, the largest part of this effect is picked up by an increase in the share of Liberal candidates running for election.

In Panel C of Table 9, we present our estimates for the sample of counties. It is worth pointing out that the extent of franchise extension was a lot milder in these constituencies and that the rural poor did not obtain the right to vote until 1884. There is no evidence here of an impact of franchise extension on either increased political competition, liberal strength or candidate selection policy. Unfortunately, however, the estimates are not sufficiently precise to draw any strong conclusions from studying these constituencies.<sup>19</sup>

**7.2. Are the differences in 1865-1859 outcomes associated with franchise extension?** As discussed earlier, a possible problem with our analysis occurs if the change in the constituency level electorate is systematically related to the growth in previous Liberal vote share in those constituencies. If this were so then we could not reasonably claim that the treatment is exogenously assigned; correspondingly, estimates derived from an analysis of equations (1) and (2) would be biased and inconsistent.

To analyze the validity of our assumption, we study the correlation between our key measure, difference in the log of the relative voting populations in 1865 and 1868, and the difference in outcomes between the 1865 election and the 1859 election. If the impact of franchise reform on the voting population was greater (smaller) in places where Liberal support was grew strongly (weakly) we would expect a positive (negative) association between the difference in outcomes in 1865-1859 and the difference in log electorates in 1868-1865.

In Table 10 we present the result of our analysis. For brevity we concentrate on the regressions that control for population change. Reassuringly, for our main measures of liberal strength, namely the Liberal share of the vote and the Liberal share of constituency level seats, the estimates are

<sup>18</sup>We condition on the difference in the number seats in all regressions in Panel B. Similar results are obtained when not conditioning on this difference.

<sup>19</sup>However, note that only 12 county constituencies cast votes both in 1865 and 1868.

small and we are unable to reject the null hypothesis of no association between these variables. Furthermore, there is no evidence of a statistically significant association between the candidate seat ratio or the share of uncontested seats.

There is, however, a positive correlation between the difference in share of incumbents variables between 1865 and 1859 and the log difference in the electorate between 1868 and 1865. This association implies that the franchise grew by more in the constituencies where the share of liberal incumbents was higher. This is likely to bias upwards the effect of franchise extension on incumbency rates. Our instrumental variables results confirm this suspicion.

**7.3. Instrumental variables estimates.** An empirical strategy that can plausibly deal with biases that arise due to reverse causality, as well as those that are due to measurement error, involve the use of instrumental variables. We instrument the log difference in electorates using the (log) level of the electorate in 1832 and the (log) population size in 1861. These variables can be used as instruments under the assumption that they are correlated with changes in the electorate but not directly correlated with subsequent changes in the outcomes.

The first-stage was presented in Table 4, the F-test for the excluded variables is around 20. In Table 11 we replicate the analysis of Tables 6, 7 and 8 using our instruments. For brevity we concentrate on the regressions that control for population change. Our findings from Table 6 concerning the relationship between the extension of the franchise and differences in the nature of two-party competition at the constituency level continues to hold, though the estimates are now larger in magnitude: a 100% increase in the registered electorate leads to a 63% decrease in the share of uncontested seats and a 45% increase in the candidate to seat ratio, with almost all of this effect picked up by an increase in the number of Liberal candidacies.

In relation to the election results our conclusion remains unchanged. There is no evidence of a liberal advantage as a consequence of franchise extension. The increase in the franchise leads to a relatively small and still statistically insignificant increase in the liberal advantage. For example, a 100% increase in the franchise leads to an increase in the Liberal vote share of around 15% though this estimate is statistically insignificant.

The analysis in the previous sub-section highlighted an issue of concern in relation to the positive relationship between the difference in incumbency rates in 1865-1859 and the magnitude of franchise extension. As we predicted this was likely to bias downwards our estimates from Table 7. Our instrumental variables estimate suggest now that a doubling of the franchise leads to a 68% decrease in the share of seats contested by sitting incumbents, of which around 62% is accounted for by non-contestation amongst Liberal incumbents.

It is worth pointing out that in all cases, we cannot reject the overidentifying assumptions at a 10 per cent level of statistical significance.

**7.4. Long run effects of the reform.** In Table 12 we analyze the political outcomes of the 1874 election with respect to those of 1865 and their relation to the constituency level difference in the voting population (1874-1865). This is a particularly interesting exercise not only because it allows us to see long run effects of the reform but also because the 1874 election is the first after the passing of the Secret Ballot Act (1872).

We find no effect, even in the longer term, of franchise extension on the Liberal share of the vote and the Liberal share of constituency seats. However, whilst we are unable to find a direct effect on our key indicators of Liberal strength, we again find evidence that the change in the electoral rules did affect party and candidate competition at the constituency level: a doubling of the franchise level lead to a 24% increase in the ratio of candidates to seats, a 20% reduction in contested seats at the constituency level and a 19% reduction in the share of seats contested by incumbents.

In contrast to our findings for the 1868 election, it appears that most of the increase in the candidate to seat ratio at the constituency level is driven by an increase in Conservative candidates. This finding is in line with the way historians have characterized the reaction of the Conservative party to the expansion of the voting population. As noted by St John (2006), in his biography of the Conservative leader, Disraeli realized that extension of the franchise placed an onus on effective party organization. He hired John Gorst to act as electoral agent of the party and as head of the new Conservative Central Office which provided a central register from which local Conservative associations could select candidates. In addition, local conservative associations were encouraged to form under the umbrella of a National Conservative Union. The net result was that in the 1874 election the Conservatives were able to contest 63 previously uncontested Liberal seats. Indeed, and as shown by (Hanham, 1959), a key effect of the Reform Act was the development of national party organizations able to support country-wide candidacies and campaigning activities.

## 8. LEGISLATIVE BEHAVIOR AND FRANCHISE EXTENSION: THE CASE OF THE ABOLITION OF CHURCH RATES BILL

Whilst we have found that Tory incumbents, unlike their Liberal counterparts, were not less likely to run in those areas most affected by the extension of the franchise, electoral reform may have impacted their behavior in other ways. In particular, Conservative incumbents may have adapted their views in order to appeal to their new electorate. We should perhaps not overestimate the strength of the link between parliamentary activity and constituency level electoral behavior. Nevertheless, Mitchell and Cornford (1977) show that “the activities of MPs, particularly local MPs, were closely monitored in the local press” and provide evidence that local voting in Cambridge did reflect the parliamentary activities of representatives.



To explore this issue we turn our gaze away from our data concerning the electoral contest in 1868 and in previous years, to analyze the parliamentary voting behavior of Members of Parliament (MPs) in this period. Different empirical strategies could be deployed to detect changes in voting behavior that may, in turn, be related to the extension of the franchise. We might, for example, analyze the roll-call behavior of those Members of Parliament elected in both 1865 and 1868 to discern any differences across time in their voting record. Doing so would, however, yield biased estimates since the retention of incumbents in 1868 may reflect their voting record: a Conservative MP with a relatively liberal voting record in the period between 1865 and 1868, may have been elected by his new constituents because of his voting record. A related problem with analyzing voting behavior over different parliaments is that the historical record suggests that the agenda being voted on changed dramatically between the premierships of Derby and Disraeli on the one hand, and Gladstone on the other. The latter introduced a programme of reform in many areas of social and economic life far more radical than that of his predecessors. Differences in an MP's voting behavior may then simply reflect differences in what was on offer, rather than changes in his immediate constituency.

An alternative empirical strategy, that gets round these problems, is to assess the voting records of the same cohort of MPs before and after the introduction of the Second Reform Act and on the same set of bills. To this end, we focus our attention on the Abolition of Church Rates Bill introduced in the Parliamentary sessions of 1866 and 1867.

Church rates were personal taxes on property owners that were used to support the established church. There was popular agitation to abolish them and support for abolition divided along religious and class lines: wealthier property owners tended to be members of the Church of England, vote Conservative, and supportive of the rates; by contrast, dissenters who opposed the tax tended to be found in the poorer sectors of the population. These divisions were found in both boroughs and Counties, with the latter described in following excerpt from Hansard:

“On the one side you have the supporters of the rate, the majority of the parishioners, including the squire, the clergy of the parish, and other residents, who in the County Directory are called the gentry. On the other side you have what, on the same authority, are called traders; you have the small farmers, the small village shopkeepers, and other persons in a lower grade of society. It is from this second class that the opponents of the church rate are mostly drawn.”

In the Commons, votes on the bill divided along party lines also. The proposal to abolish rates had failed to pass second reading in 1865 under the Liberal government, with opposition from the Conservatives and some members of the Whig gentry aligned with the Liberals. It was introduced again in 1866 where it passed on second reading - by 285 votes to 252- despite Conservative opposition. Due to the constraints of the parliamentary timetable, the bill was not pushed through

to third reading. The Abolition of Church Rates Bill was reintroduced in 1867, where it passed second reading with a larger majority.<sup>20</sup>

Two aspects are of immediate interest. The first is the difference in the outcome of the vote in 1866 and that of 1867.<sup>21</sup> In both cases the bill passed its second reading. However, in 1866 there were 252 “Noes”, whereas, and by contrast, in 1867 there were only 187 (and 263 “Ayes”). A further aspect of interest is the timing of the 1867 bill. The second reading of the Abolition of Church Rates Bill was voted on in Parliament on March 15th, 1867, one month after the Queen’s speech which anticipated a policy that “without unduly disturbing the balance of political power shall freely extend the electoral franchise,” and Disraeli’s reading of the Second Reform Act on the floor of the House.<sup>22</sup> The question then arises whether MPs who had previously opposed abolition changed their behavior, by either voting in favor or abstaining from the final vote, when faced with an increase in opposition to the Bill amongst their constituents.

Table 13 tabulates the votes on the bill from our sample of 321 MPs that belong to boroughs who appear in all elections from 1859 to 1874.<sup>23</sup> Of the 100 who voted “No” in 1866, 38 abstained in 1867. Out of 183 MPs who voted “Aye” in 1866, only 37 members abstained in 1867. The largest change is then in the number of MP’s who, though voting “No” in 1866, chose to abstain in 1867, where we define abstention as neither voting “Aye” or “No” in each particular vote.

Does the forthcoming increase in the franchise lead to a decrease in the likelihood of voting “No”? To answer this question, we coded a dummy variable 1 if the MP had voted “No” in 1866 and zero otherwise, a similar variable is coded for 1867 and we use their difference as the outcome of interest. As in our previous analysis we regress this outcome on the difference in (log) electorate between 1868 and 1865 at the constituency level. Estimates of this model, that are presented in Table 14, reveal in general negative but small and statistically insignificant effects of franchise extension on the voting behavior of MPs. The results are independent of whether we include controls for population change or look at samples that include constituencies that will suffer boundary changes or changes in the number of seats.<sup>24</sup>

<sup>20</sup>The bill was rejected by the Lords and Church Rates were abolished by the new parliament in 1868.

<sup>21</sup>Information for the 1866 and 1867 votes was obtained from <http://hansard.millbanksystems.com/>.

<sup>22</sup>The second reading in 1866 was voted on March 7.

<sup>23</sup>Of the 335 elected MPs in 1865 for our sample of 207 Boroughs, 14 members were either made peers, had their election declared void, resigned, or passed away.

<sup>24</sup>We condition on the difference in the number seats in columns (1) and (2). The results are similar when not conditioning on this difference.

## 9. CONCLUSION

The Second Reform Act of 1867 is a major turning point in British history and is associated with the election of the first unequivocally Liberal government on a reforming agenda. The causes and consequences of the Reform Act remain disputed by historians and political economists to this day, with some viewing it as a result of a combination of ingredients related to inter-party competition, whilst others highlight the effect of factors external to inter-party competition at the time, namely popular agitation for reform. The immediate effect of the Act, the election of a reforming Liberal government under Gladstone, can be used as evidence against the view that reform was related to strategic political calculation.

The key contribution of our paper is in exploiting constituency level variation in the impact of reforms to analyze how different political outcomes were related to franchise extension. We find evidence that relates the constituency level impact of the reforms to differences in party political and candidate competition at the constituency level. However, and despite the significance of the Act, when controlling for a trend towards the Liberals that affects all constituencies, as well as local fixed traits, we find no evidence that electoral reform had a causal effect on the immediate electoral outcome of the 1868 election.

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Figure 1: A timeline of Major Electoral Reforms in the UK

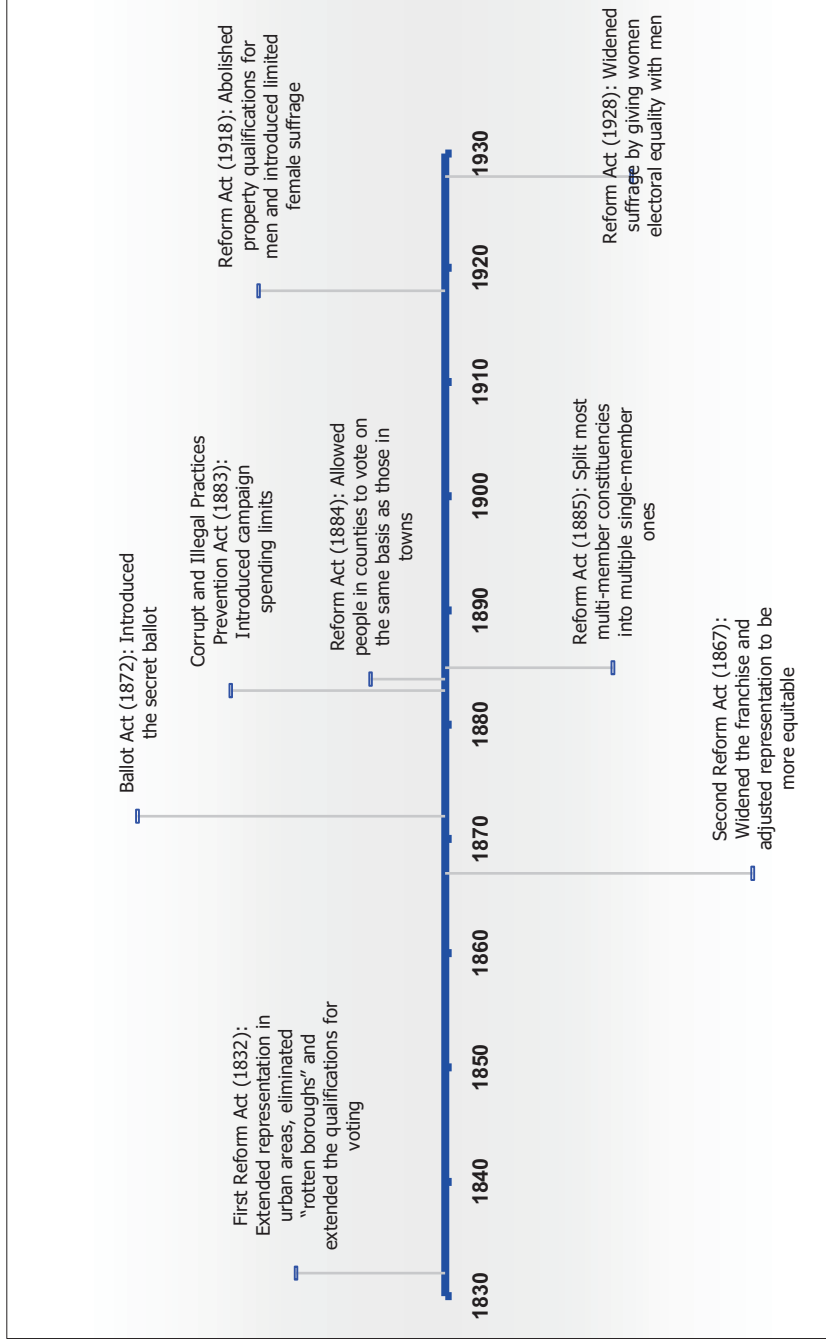


Figure 2: Changes and the Level of Enfranchised Population in Boroughs (1865-1868)

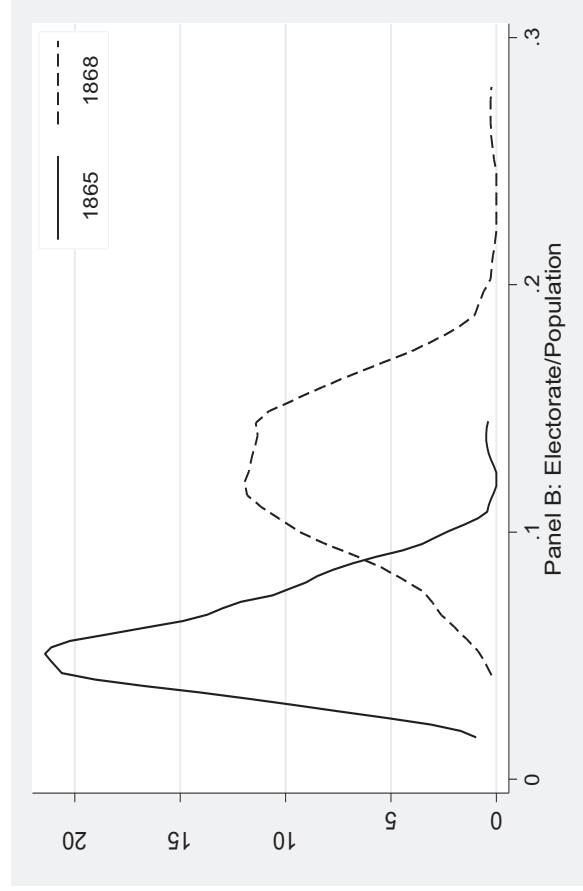
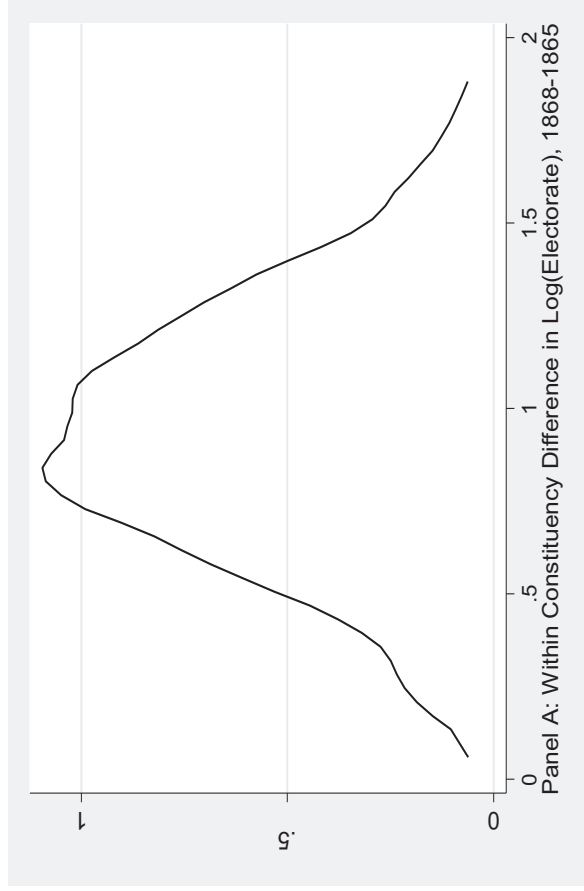




Table 1: Registered Electorate

Year	Country		Location	
	England	Scotland	Wales	Boroughs Counties
1859	900,059	105,608	56,033	491,446 570,254
1865	970,076	105,069	61,656	544,661 592,140
1868	1,880,368	231,376	127,385	1,369,848 869,281
1874	2,097,206	271,240	137,143	1,594,732 910,857

Source: Own calculations based on data from Craig (1989).

Table 2: Head of Households Estimated Annual Income, Skills, and Rent Paid in the UK at different points of the Income Distribution in 1860

	Annual Income of the Head of the Household	Typical Occupation of the Head of the Household	Rent Paid by a Typical Family
Lowest decile	33 pounds 16 shillings	Average agricultural laborer	3 pounds 18 shillings
Lower quartile	40 pounds 6 shillings	Bottom of unskilled	6 pounds 10 shillings
Median	53 pounds 6 shillings	Top of unskilled	7 pounds 16 shillings
Upper quartile	71 pounds 10 shillings	Ordinary semi-skilled	10 pounds 8 shillings

Source: Own calculations based on Mackenzie (1921) and Bowley (1937).

Table 3: Total Number of Constituencies and Seats in England, Scotland, and Wales (1859-1874)

	Boroughs		Counties	
	Constituencies	Seats	Constituencies	Seats
Total in 1859 election	220	356	111	189
Total in 1865 election	221	357	112	192
Total in 1868 election	222	327	127	219
Total in 1874 election	220	323	127	219
Total in constituencies that appear in 1859, 1865, 1868 & 1874	207	308 <sup>†</sup>	97	166
Total in constituencies without changes in seats, 1859-1874	164	252	97	166
Total in constituencies without changes in seats and no boundary changes, 1859-1874	113	171	60	95

Source: Own calculations based on data from Craig (1989).

Notes: <sup>†</sup>The number of seats corresponds to the 1868-1874 period. In the 1859-1865 period there were 335 seats.

Table 4: Explaining the Change in Electorates in English, Welsh and Scottish Boroughs, 1868-1865

	Dependent variable: Log(Electorate 1868) - Log(Electorate 1865)					
	(1)	(2)	(3)	(4)	(5)	(6)
Log (Electorate 1832)	-0.138*** [0.028]	-0.133*** [0.026]			-0.324*** [0.053]	-0.296*** [0.053]
Log (Population 1861)			-0.053 [0.034]	-0.060* [0.032]	0.205*** [0.056]	0.178*** [0.055]
F-test joint statistical significance of the 2 controls					22.07	19.78
p-value					0.0001	0.0001
Observations	113	113	113	113	113	113
R-Squared	0.15	0.213	0.025	0.106	0.255	0.288
Control Population Change?	No	Yes	No	Yes	No	Yes

Source: Craig (1989) and Vincent and Stenton (1971).

Notes: OLS regressions. All regressions include a constant. \*\*\* indicates statistical significance at 1%, \*\* at 5%, and \* at 10%. Robust standard errors are in parentheses.

Table 5: Descriptive Statistics

	Year:				1865				1868				1874			
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	
Electorate	113	2418	4223	113	2628	4665	113	5715	7322	113	6586	8237	113	6586	8237	
Share Liberal Seats	113	0.69	0.42	113	0.73	0.40	113	0.77	0.37	113	0.57	0.44	113	0.57	0.44	
Share Liberal Vote	54	0.68	0.22	71	0.63	0.20	87	0.66	0.19	98	0.55	0.19	98	0.55	0.19	
Voter Turnout	54	0.73	0.14	71	0.73	0.14	87	0.74	0.15	98	0.75	0.14	98	0.75	0.14	
Candidate Seat Ratio	113	1.38	0.43	113	1.51	0.47	113	1.70	0.49	113	1.85	0.46	113	1.85	0.46	
Share Uncontested Seats	113	0.52	0.50	113	0.37	0.49	113	0.23	0.42	113	0.13	0.34	113	0.13	0.34	
Liberal Candidate Seat Ratio	113	0.88	0.51	113	0.97	0.42	113	1.12	0.43	113	1.06	0.38	113	1.06	0.38	
Share Incumbent	113	0.77	0.37	113	0.57	0.45	113	0.67	0.43	113	0.60	0.42	113	0.60	0.42	
Share Liberal Incumbent	113	0.59	0.43	113	0.40	0.43	113	0.53	0.45	113	0.43	0.42	113	0.43	0.42	
Share Losers	113	0.06	0.18	113	0.05	0.13	113	0.07	0.15	113	0.07	0.15	113	0.07	0.15	
Share Liberal Losers	113	0.03	0.12	113	0.02	0.09	113	0.05	0.13	113	0.03	0.09	113	0.03	0.09	

Source: Own calculations based on data from Craig (1989) and Vincent and Stenton (1971).

Table 6: Party Competition Under the New Franchise (1868-1865)

	Dependent variable:					
	$\Delta$ candidate	$\Delta$ share	$\Delta$ liberal	$\Delta$ share	$\Delta$ liberal	$\Delta$ liberal
	seat ratio	uncontested seats	candidate seat ratio	uncontested seats	candidate seat ratio	candidate seat ratio
	(1)	(2)	(3)	(4)	(5)	(6)
$\Delta \log(\text{electorate})$	0.358** [0.155]	0.417*** [0.146]	-0.257* [0.141]	-0.312** [0.133]	0.359** [0.148]	0.407*** [0.140]
Observations	113	113	113	113	113	113
R-Squared	0.047	0.063	0.028	0.044	0.065	0.08
Control Population Change?	No	Yes	No	Yes	No	Yes

Source: Craig (1989) and Vincent and Stenton (1971).

Notes: OLS regressions. All regressions include a constant term. \*\*\* indicates statistical significance at 1%, \*\* at 5%, and \* at 10%. Robust standard errors are in parentheses.



Table 7: Electoral Outcomes Under the New Franchise (1868-1865)

	Dependent variable:					
	Δ share of liberal seats		Δ share liberal vote		Δ voter turnout	
	(1)	(2)	(3)	(4)	(5)	(6)
Δ log(electorate)	-0.022 [0.115]	-0.053 [0.120]	0.078 [0.068]	0.059 [0.067]	-0.076 [0.052]	-0.095* [0.057]
Observations	113	113	62	62	62	62
R-Squared	0.001	0.01	0.031	0.074	0.036	0.094
Control Population Change?	No	Yes	No	Yes	No	Yes

Source: Craig (1989) and Vincent and Stenton (1971).

Notes: OLS regressions. All regressions include a constant term. \*\*\* indicates statistical significance at 1%, \*\* at 5%, and \* at 10%. Robust standard errors are in parentheses.

Table 8: Candidate Competition Under the New Franchise (1868-1865)

	Dependent variable:							
	$\Delta$ share incumbents		$\Delta$ share liberal incumbents		$\Delta$ share losers		$\Delta$ share liberal losers	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
$\Delta \log(\text{electorate})$	-0.320*	-0.302*	-0.225	-0.221	-0.053	-0.031	-0.061	-0.058
	[0.162]	[0.177]	[0.138]	[0.144]	[0.051]	[0.047]	[0.044]	[0.041]
Observations	113	113	113	113	113	113	113	113
R-Squared	0.032	0.033	0.023	0.023	0.009	0.029	0.016	0.017
Control Population Change?	No	Yes	No	Yes	No	Yes	No	Yes

Source: Craig (1989) and Vincent and Stenton (1971).

Notes: OLS regressions. All regressions include a constant term. \*\*\* indicates statistical significance at 1%, \*\* at 5%, and \* at 10%. Robust standard errors are in parentheses.

Table 9: Electorate Outcomes, Party and Candidate Competition Under the New Franchise in Different Samples (1868-1865)

	Dependent variable:									
	$\Delta$ candidate seat ratio	$\Delta$ share uncontested	$\Delta$ liberal candidate	$\Delta$ share liberal	$\Delta$ share seats liberal	$\Delta$ share liberal vote	$\Delta$ voter turnout	$\Delta$ share incumbent	$\Delta$ share incumbents	$\Delta$ share liberal losers
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<u>Panel A: Boroughs with boundary changes</u>										
$\Delta \log(\text{electorate})$	0.170 [0.138]	-0.127 [0.118]	0.141 [0.111]	-0.102 [0.087]	0.009 [0.047]	-0.040 [0.038]	-0.157 [0.133]	-0.119 [0.114]	0.045 [0.039]	-0.012 [0.033]
Observations	164	164	164	164	87	87	164	164	164	164
R-Squared	0.015	0.013	0.014	0.017	0.057	0.034	0.014	0.008	0.016	0.001
<u>Panel B: Boroughs with boundary changes and change of seats</u>										
$\Delta \log(\text{electorate})$	0.217* [0.124]	-0.186* [0.112]	0.169* [0.098]	-0.076 [0.077]	0.004 [0.047]	-0.038 [0.034]	-0.192 [0.119]	-0.108 [0.103]	0.030 [0.034]	-0.012 [0.029]
Observations	207	207	207	207	110	110	207	207	207	207
R-Squared	0.027	0.024	0.028	0.009	0.015	0.171	0.035	0.020	0.009	0.001
<u>Panel C: Counties without boundary or seat changes</u>										
$\Delta \log(\text{electorate})$	-0.494 [0.408]	0.563 [0.417]	-0.212 [0.282]	0.333 [0.327]	0.015 [0.325]	-0.085 [0.255]	-0.031 [0.270]	0.023 [0.214]	-0.029 [0.119]	0.001 [0.116]
Observations	60	60	60	60	12	12	60	60	60	60
R-Squared	0.065	0.072	0.025	0.024	0.217	0.039	0.026	0.016	0.01	0.001
Control Population Change?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Source: Craig (1989) and Vincent and Stenton (1971).

Notes: OLS regressions. All regressions include a constant term. Regressions in Panel B also control for the difference in the number of seats. \*\*\* indicates statistical significance at 1%, \*\* at 5%, and \* at 10%. Robust standard errors are in parentheses.

Table 10: Is  $\Delta \log(\text{electorate})$  for 1868-1865 Correlated with Differences in Outcomes for 1865-1859?

	Dependent variable (1865-1859 difference):									
	$\Delta$ candidate seat ratio	$\Delta$ share seats uncontested	$\Delta$ liberal candidate	$\Delta$ share seats liberal	$\Delta$ share liberal vote	$\Delta$ voter turnout	$\Delta$ share incumbent	$\Delta$ share liberal incumbents	$\Delta$ share losers	$\Delta$ share liberal losers
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
$\Delta \log(\text{electorate})$ (1868-1865 difference)	-0.145 [0.163]	0.143 [0.168]	-0.118 [0.110]	0.072 [0.090]	0.022 [0.073]	0.022 [0.071]	0.273* [0.139]	0.305** [0.138]	-0.063 [0.052]	0.001 [0.032]
Observations	113	113	113	113	43	43	113	113	113	113
R-Squared	0.024	0.024	0.021	0.009	0.058	0.008	0.028	0.038	0.022	0.017
Control Population Change?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Source: Craig (1989) and Vincent and Stenton (1971).

Notes: OLS regressions. All regressions include a constant term. \*\*\* indicates statistical significance at 1%, \*\* at 5%, and \* at 10%. Robust standard errors are in parentheses.

Table 11: Electoral Outcomes, Party, and Candidate Competition Under the New Franchise: Instrumental Variables Estimates

	Dependent variable:									
	$\Delta$ candidate seat ratio	$\Delta$ share uncontested	$\Delta$ liberal candidate	$\Delta$ share liberal	$\Delta$ share seats liberal	$\Delta$ share liberal	$\Delta$ share liberal vote	$\Delta$ voter turnout	$\Delta$ share incumbent	$\Delta$ share liberal incumbents
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
$\Delta \log(\text{electorate})$	0.648** [0.291]	-0.911*** [0.282]	0.546** [0.273]	0.124 [0.203]	0.213 [0.161]	0.031 [0.113]	-0.986*** [0.326]	-0.608** [0.261]	-0.055 [0.102]	-0.001 [0.080]
Observations	113	113	113	113	62	62	113	113	113	113
Overidentification test (p-value)	0.835	0.600	0.893	0.553	0.745	0.697	0.159	0.591	0.521	0.694
Control Population Change?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Source: Craig (1989) and Vincent and Stenton (1971).

Notes: Instrumental Variables regressions. All regressions include a constant term. First stage regression in Table 4. Instruments are: Log (Electorate, 1832) and Log (Population, 1861). \*\*\* indicates statistical significance at 1%, \*\* at 5%, and \* at 10%. Robust standard errors are in parentheses.

Table 12: Electorate Outcomes, Party and Candidate Competition Under the New Franchise (1874-1865)

	Dependent variable:									
	$\Delta$ candidate seat ratio	$\Delta$ share uncontested	$\Delta$ liberal candidate	$\Delta$ share liberal	$\Delta$ share seats liberal	$\Delta$ share liberal vote	$\Delta$ voter turnout	$\Delta$ share incumbent	$\Delta$ share liberal incumbents	$\Delta$ share losers
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
$\Delta \log(\text{electorate})$	0.345** [0.150]	-0.284** [0.111]	0.077 [0.114]	-0.021 [0.092]	-0.001 [0.059]	0.013 [0.039]	-0.273** [0.134]	-0.266* [0.144]	0.053 [0.056]	0.017 [0.030]
Observations	113	113	113	113	67	67	113	113	113	113
R-Squared	0.046	0.043	0.007	0.01	0.003	0.002	0.03	0.035	0.016	0.06
Control Population Change?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Source: Craig (1989) and Vincent and Stenton (1971).

Notes: OLS regressions. All regressions include a constant term. \*\*\* indicates statistical significance at 1%, \*\* at 5%, and \* at 10%. Robust standard errors are in parentheses.

Table 13: Voting Patterns in the Second Readings of the 1866 and 1867 Abolition of Church Rates Bill

Vote in 1866	Vote in 1867			Total
	Abstain	No	Yes	
Abstain	19	6	13	38
No	38	61	1	100
Yes	37	0	146	183
Total	94	67	160	321

Source: Hansard.

Notes: Votes are for the sample of MPs that belong to boroughs that appear over all the sample we study (see, Table 3).

Table 14: Noes in the Second Reading of the 1866 and 1867 Abolition of Church Rates Bill

	Dependent variable: $\Delta$ no dummy					
	(1)	(2)	(3)	(4)	(5)	(6)
$\Delta \log(\text{electorate})$	0.001 [0.056]	0.006 [0.056]	-0.021 [0.059]	-0.032 [0.057]	-0.020 [0.093]	-0.023 [0.091]
Observations	321	321	242	242	163	163
R-Squared	0.019	0.019	0.001	0.003	0.001	0.001
Sample	Boundary changes and change in seats		Boundary changes and no change in seats		No boundary changes and no change in seats	
Control Population Change?	No	Yes	No	Yes	No	Yes

Source: Craig (1989), Vincent and Stenton (1971) and Hanssard.

Notes: OLS regressions. All regressions include a constant term. Regressions in columns (1) and (2) also control for the difference in the number of seats. \*\*\* indicates statistical significance at 1%, \*\* at 5%, and \* at 10%.