Information Aggregation and Strategic Abstention in Large Laboratory Elections\textsuperscript{1}

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\textsuperscript{5}This working paper incorporates corrections to Table 2 of the version published in *American Economic Review: Papers and Proceedings*. 2008. 98(2):194-200. We thank Howard Margolis for pointing out errors in the published table, and a published corrigendum is also available on line at the AER website.
Abstract

This paper compares strategic abstention in ad hoc committees versus standing committees. Ad hoc committees meet only once and then dissolve, while standing committees meet under controlled laboratory conditions. The central finding from this study is that most of the predictions of swing voter curse theory hold up in large elections conducted under controlled laboratory conditions. There is significant abstention, and significant balancing of partisans by uniformed voters; and vote balancing increases with the partisan imbalance. Elections with no partisan imbalance successfully aggregate information and lead to efficient outcomes. Consistent with swing voter curse theory, this efficiency falls off as partisan imbalance increases, but to a significantly greater extent than is predicted in equilibrium. It is instructive to compare these findings in large elections with results from the smaller elections reported in Battaglini et al. (2007). All of the qualitative results are the same, concerning the comparative statics, balancing, and abstention. One slight difference is that there was less (irrational) voting for $a$ in the small elections than in the large elections, except for the $\pi = 5/9 \ m = 0$ treatment, where we observed 20% voting for $a$ in the small elections, compared with 10% voting for $a$ in the large elections. These differences were reflected in slightly different efficiency results between small and large elections, with the comparisons mirroring the differences in voting for $a$: more (irrational) $a$ voting results in lower efficiency. We conclude that this scaled-up study successfully replicates the initial swing voter’s curse experiment reported in Battaglini et al. (2007), obtaining very similar findings in laboratory committees that are three times the size of those in the original study. The one caveat is that we found evidence of a slight increase in irrational nonequilibrium behavior (voting for $a$) in the larger elections. Whether this trend would continue as election size is further scaled up is an open question. In a swing voter’s curse environment
Recent advances in voting theory have shed light on the influence of pivotality on voter choices when voters have asymmetric private information, and the implications of this for information aggregation in committees and elections. Of particular interest is the result that voters may optimally choose to vote contrary to their own private information even in committees or elections where all voters share the same preferences (David Austen-Smith and Jeffrey Banks, 1996). A related insight is that abstention can occur even when voting is costless, as in the so-called “Swing Voter’s Curse” literature (Timothy Feddersen and Wolfgang Pesendorfer, 1996). The reason is that private signals give voters information about the *marginal* distribution of states (given by voter signals), but what matters for an optimal decision is the distribution of states *conditional on a pivotal event*. For example, the pivotal event under majority rule arises when the aggregate votes of the other voters is either a tie or one vote away from a tie. These conditional distributions can be much different from the unconditional distribution of states. Because of these differences, some results are quite unintuitive and seem behaviorally implausible at first blush. Because these results have important implications about information aggregation and the efficiency of election outcomes and committee decisions (Feddersen and Pesendorfer 1997, 1999), there is a need to test these theories, especially with respect to environments where the predictions seem implausible.

More generally, the view that voters condition their choices of pivotality remains controversial, especially among political scientists.\(^1\) Due to the many confounding factors, attempts to test these theories by empirical study of voter behavior have been quite limited. For example, a number of researchers have used historical and survey data to establish a correlation between information and turnout (Thomas Palfrey and Keith Poole 1987, Thomas Coupe and Abdul Noury 2004, Matthew Gentzkow 2005, and others), but establishing a causal link has been more difficult (Lassen 2005). Moreover, such a relationship might also be consistent with a more simpler decision-theoretic model (Matsusaka (1995). As Lassen specifically points out (page 116), observational data is not rich enough in variation nor provides researchers with enough controls

to evaluate empirically the nuances of the pivotal voter approach and the laboratory may be the only place where such a study is possible.

This difficulty suggests a valuable role for laboratory experiments, where confounding factors can be eliminated and the environment can be controlled in order to obtain separation between the predictions of equilibrium theories based on game theory and pivotality versus non-equilibrium theories based on traditional decision theory. A few experimental papers have appeared in the literature in the last decade, testing pivotal voter models2, but many open questions remain, including questions about the generalizability of these findings to large elections.

This paper focuses squarely on the question of how these findings may change when the number of voters is scaled up. Because these models are intended to apply to both relatively small committees and mass elections (and everything in between), answering the scaling-up question is essential to understanding the general applicability of the theory.

We explore the scaling-up question with respect to one specific application of the theory, the Swing Voter’s Curse (SVC). The SVC refers to a situation in which a voter, conditioning on being pivotal, may rationally choose to vote against his prior, or may abstain even if his prior clearly favors a given alternative. To see why this may happen, imagine a situation in which alternative $a$ is superior to alternative $b$, given prior information. Assume that most voters vote without observing which alternative is ex post superior (uninformed voters); some voters, however, have access to a private signal which reveals the true state (informed voters). In this case it is not possible that the uninformed voters, following their prior, vote for $a$. If this were the case, an uninformed voter would indeed realize that, conditional on being pivotal, some votes must be cast by informed voters (or else $a$ would win for sure): this uninformed voter would not vote for $a$, because $b$ would certainly be a better alternative. As we will illustrate below, by a similar argument, uninformed voters may choose to vote against their prior if they know that there are partisan voters who would always favor $a$ regardless of the state. In these cases, therefore, the way voters make choices does not only depend on their preferences and

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their information, but also on the entire distribution of preferences and information.

Battaglini, Morton and Palfrey (2007) present the first experimental study of the Swing Voter’s Curse and find significant evidence in support of the theory. They consider small committees (less than 10 voters), and find that uninformed swing voters abstain rather than cancel out more informed voters, even though voting costs are zero. Even more striking, in asymmetric environments, where there is partisan bias, these uninformed swing voters vote to offset these biases, even when their information says to vote in the same direction as the bias.

However, the experiments are conducted only on small committees of seven swing voters and generally 6 or fewer uninformed voters. In our scaled-up elections, we have between two and a half and three times as many voters of all kinds in each electorate. Other experimental studies have reported that voters in larger groups abstain with lower frequency than theory would suggest, even when the theory is modified to allow for some behavioral limitations. For example, Levine and Palfrey (2006) in a study of costly voting, for example, find that as they increase the size of the voting population, turnout rates are higher than the predictions of the Bayesian-Nash equilibrium and also quantal response equilibrium (MP1995). It may be that as the size of the voting population increases, the predictions of the Swing Voter’s Curse are less supported in the laboratory if swing voters participate more in such larger voting groups. However, we find that even in the larger voting groups considerable support for the Swing Voter’s Curse and the pivotal voter theory of information aggregation in committees and elections.

I The Model and Equilibrium

We consider a game with a set of $N$ voters who deliberate by majority rule. There are two alternative policies (or candidates) $a$, $b$ and two states of the world, $A$ and $B$. A number $m < N$ voters are partisans, who strictly prefer policy $A$ regardless of the state. For convenience we assume that $m$ is even, $n$ is odd and $m \leq n - 3$. The remaining voters are independents. These voters share common preferences represented by a utility function $u(x, \theta)$ that is a function of the state of the world $\theta \in \{A, B\}$ and the policy $x \in \{a, b\}$, where $u(a, A) = u(b, B) = 1$ and

\[^3\text{These assumptions are made only to simplify the notation.}\]
\(u(a, B) = u(b, A) = 0\). State \(A\) has a prior probability \(\pi \geq \frac{1}{2}\). The true state of the world is unknown, but each voter may receive an informative signal. We assume that signals of different agents are conditionally independent. The signal can take three values \(\alpha, \beta,\) and \(\emptyset\) with probabilities:

\[
\Pr(\alpha|A) = \Pr(\beta|B) = p \quad \text{and} \quad \Pr(\emptyset|A) = \Pr(\emptyset|B) = 1 - p
\]

A voter, therefore, is perfectly informed on the state of the world with probability \(p\) (i.e., observes \(a\) or \(b\)) and has no information with probability \(1 - p\) (i.e., observes \(\emptyset\)).

After voters have seen their private signal, all voters vote simultaneously. Each voter can vote for \(a\), vote for \(b\), or abstain (\(\emptyset\)), and voting is costless. Partisans always vote for \(a\). In any equilibrium in weakly undominated strategies, an independent who receives an \(\alpha\) signal votes for \(a\), and an independent who receives a \(\beta\) signal votes for \(b\). Therefore, in this model the only potentially strategic voting comes from the uninformed independents. Let \(\sigma_a\), \(\sigma_b\), and \(\sigma_\emptyset\) be the probability that an uninformed agent votes for \(a\), \(b\), or abstains, respectively. An equilibrium of this game is symmetric if agents with the same signal use the same strategy: \(\sigma_i = \sigma\) for all \(i\).

We analyze symmetric equilibria in which agents do not use weakly dominated strategies and we will refer to them simply as equilibria.

Battaglini, et al. (2007) characterizes the equilibria of the voting game, which is unique for the experimental parameters. Formal derivations and proofs appear in Battaglini, Morton, and Palfrey (2006). First consider the benchmark case in which all the voters have the same common value, so \(m = 0\). For this case, we have, \(\sigma_b = 0\) for all values of \(\pi\). For values of \(\pi\) sufficiently close to \(\frac{1}{2}\) and \(p\) sufficiently large, we also have \(\sigma_a = 0\), so all uninformed voters abstain. In the experiment we choose parameters such that \(\sigma_a = \sigma_b = 0\) when \(m = 0\).

This equilibrium has a simple interpretation as a particular form of the Swing Voters’ Curse. To see the intuition behind it, suppose the prior is \(\pi = \frac{1}{2}\). If an uninformed voter were to choose in isolation, he would be indifferent between the two options \(a\) or \(b\). When voting in a group, however, he knows that with positive probability some other voter is informed. By voting, he risks voting against this more informed voter. So, since he has the same preferences as this
informed voter and he is otherwise indifferent among the alternatives because he has no private information on the state, he always finds it optimal to abstain. When the prior is $\pi > \frac{1}{2}$, the problem of the voter is more complicated. In this case the swing voter’s curse is mitigated by the fact that the prior favors one of the two alternatives. As before, the voter does not want to vote against an informed voter. However, he is not sure that there is an informed voter: and if no informed voter is voting, he strictly prefers alternative $a$ since this is ex ante more likely. Thus although the voter never finds it optimal to vote for $b$, he may find it optimal to vote for $a$. The higher is $\pi$, the higher is the incentive to vote for $a$; the higher is $p$ (i.e. the probability that there are other informed voters), the lower is the incentive to vote. For any $p$, if $\pi > \frac{1}{2}$ is not too high, the voter abstains.

I.1 Partisan Bias

If $m > 0$, the analysis is more subtle. Now uninformed voters always have an incentive to vote to balance out the partisans, who (from the standpoint of an independent) bias the outcome in favor of $a$. The calculus now depends critically on the conditional state probabilities if there is a tie. For example, if there is a tie, it means some of the independent voters have voted for $b$. Hence, in any equilibrium, $\sigma_b > 0$: i.e., uninformed voters must be voting for $b$ with positive probability. To see the logic, suppose not, so $\sigma_b = 0$. This implies that if a pivotal event occurs it must be that all the $b$ voters are informed independents, and hence the state is $B$. Therefore, the best response is $\sigma_B = 1$, a contradiction. In addition, it is easy to show that there cannot be an equilibrium.

As in the case with $m = 0$, if $\pi = \frac{1}{2}$ or if $\pi > \frac{1}{2}$ and $p$ is sufficiently large, then $\sigma_a = 0$. So the only equilibrium involves mixing between $b$ and abstention, so the equilibrium is characterized by a single number, $\sigma_b \in (0, 1]$. In our experiment, we choose parameters such that $\sigma_b \in (0, 1)$, and $\sigma_a = 0$.

There are several comparative static properties the parameters of the model, $m, p, n, \pi$. For example, the higher is the bias in favor of $A$, the higher is $\sigma_b$. 
II EXPERIMENTAL DESIGN

We use controlled laboratory experiments to evaluate the theoretical predictions. Once a specific parametrization for $n$, $m$, and $p$ is chosen, the model described and solved in the previous section can be directly tested in the lab without changes. In all of the sessions for the experiment we used $p = 0.25$. We had two sessions each of two different treatments for the probability distribution of the state of the world: $\pi = 1/2$ and $\pi = 5/9$. Within each session subjects participated in three different treatments for partisan bias: $m = 0, 6$, and $12$. The number of independents was 21 in three of the sessions and 17 in one session (with $\pi = 1/2$).

The symmetric undominated Bayesian equilibrium is unique for all parameter values used in the experiment. For all elections, $\sigma_a = 0$. For all $m = 0$ elections, $\sigma_\phi = 1$. For all elections with $m > 0$, $\sigma_b \in (0, 1)$. Specifically, the equilibrium predictions are: $\sigma_b(\pi = 1/2; m = 6; n = 21) = 0.33; \sigma_b(\pi = 1/2; m = 12; n = 21) = 0.69; \sigma_b(\pi = 1/2; m = 6; n = 17) = 0.42; \sigma_b(\pi = 1/2; m = 12; n = 17) = 0.88; \sigma_b(\pi = 5/9; m = 6; n = 21) = 0.32; \sigma_b(\pi = 5/9; m = 12; n = 21) = 0.69.$

We contrast these with the decision theoretic predictions, based on naive voting, as for example in Matsusaka (1995). According to the naive model, voters abstain unless there are consumption benefits to voting, and these consumption benefits are independent of pivot probabilities. The consumption benefits are derived from voting for a choice that yields the highest utility given their prior beliefs about the state. In our experiment, the predictions of that model are: $\sigma_\phi = 1$ for $\pi = 1/2$; and $\sigma_a > \sigma_b = 0$ for $\pi = 5/9$. Moreover, since voters are not strategic, $\sigma_a$ is independent from the number of partisans $m$.

The experiments were all conducted at the Center for Experimental Social Science at New York University and used registered students from New York University.\textsuperscript{4} Four sessions were conducted, three with 22 subjects and one with 18 subjects.\textsuperscript{5} No subject participated in more than one session. Each session had three subsessions, each lasting 10 elections. All subsessions used the same $\pi$, but different values of $m = 0, 6$, and 12. We varied the sequence of $m$ across

\textsuperscript{4}The instructional and payment procedures are the same as described in Battaglini et al. (2007).

\textsuperscript{5}We planned four 22-subject sessions, but were 4 subjects short in one of the sessions. In each session one subject was paid $20 to serve as a monitor.
sessions to partially control for any sequencing or learning effects. That is, for each value of \( \pi \), we conducted one session using the order (12, 6, 0) and one session using the order (0, 6, 12). In the analysis that follows we label the first variation, \textit{Partisans First} variation and the second \textit{Partisans Last} variation. In the two Partisans Last sessions and the Partisan First session with \( \pi = 5/9 \), \( n = 21 \), but in the Partisan First session with \( \pi = 0.5 \), \( n = 17 \). We discuss the implications of this difference below.

### III EXPERIMENTAL RESULTS

#### III.1 Aggregate Voter Choices

##### III.1.1 Informed Voters

Of the 2400 voting decisions we observed, in 618 cases (26 percent) subjects were informed, that is, revealed a red or yellow ball. Across all treatments and sessions, these informed voters chose 99 percent as predicted, 99.7 percent of the time if a voter revealed a red ball, he or she voted for jar 1 (state \( A \)) and 98 percent of the time if a voter revealed a yellow ball, he or she voted for jar 2 (state \( B \)). We interpret this as indicating that all subjects had at least a basic comprehension of the task.

##### III.1.2 Uninformed Voters

**Effects of Treatments on Voter Choices**  Table 1 summarizes the choices of uninformed voters as compared to the equilibrium predictions. In all treatments we find that uninformed voters abstain in large percentages compared to informed voters and these differences are significant. We also find strong evidence that the majority of uninformed voters alter their voting choices as predicted by the swing voter’s curse theory and contrary to the decision-theoretic theory. When \( m = 0 \), uninformed voters abstain in high percentages. However, with partisan bias, uninformed voters reduce abstention and increase their probability of voting for \( b \). The changes are all statistically significant.\(^6\)

\(^6\)The t statistics are 12.64 and 4.19, respectively, for the case when \( \pi = 1/2 \) and 9.82 and 9.12, respectively, for the case when \( \pi = 5/9 \).
Table 1: Percent Uninformed Votes

<table>
<thead>
<tr>
<th>m</th>
<th>Number</th>
<th>a</th>
<th>b</th>
<th>Abstain</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>135</td>
<td>6 (0)</td>
<td>7 (0)</td>
<td>87 (100)</td>
</tr>
<tr>
<td>6</td>
<td>120</td>
<td>4 (0)</td>
<td>55 (42)</td>
<td>41 (58)</td>
</tr>
<tr>
<td>12</td>
<td>127</td>
<td>10 (0)</td>
<td>76 (86)</td>
<td>13 (17)</td>
</tr>
</tbody>
</table>

\( \pi = \frac{1}{2}, \ n = 17 \)

<table>
<thead>
<tr>
<th>m</th>
<th>Number</th>
<th>a</th>
<th>b</th>
<th>Abstain</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>151</td>
<td>9 (0)</td>
<td>9 (0)</td>
<td>83 (100)</td>
</tr>
<tr>
<td>6</td>
<td>158</td>
<td>20 (0)</td>
<td>42 (33)</td>
<td>38 (67)</td>
</tr>
<tr>
<td>12</td>
<td>163</td>
<td>21 (0)</td>
<td>48 (69)</td>
<td>31 (31)</td>
</tr>
</tbody>
</table>

\( \pi = \frac{1}{2}, \ n = 21 \)

<table>
<thead>
<tr>
<th>m</th>
<th>Number</th>
<th>a</th>
<th>b</th>
<th>Abstain</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>304</td>
<td>10 (0)</td>
<td>2 (0)</td>
<td>88 (100)</td>
</tr>
<tr>
<td>6</td>
<td>311</td>
<td>11 (0)</td>
<td>35 (32)</td>
<td>54 (68)</td>
</tr>
<tr>
<td>12</td>
<td>313</td>
<td>18 (0)</td>
<td>62 (69)</td>
<td>21 (31)</td>
</tr>
</tbody>
</table>

\( \pi = \frac{5}{9}, \ n = 21 \)

Session, Ordering, and Learning Effects  

Figure 1 presents the average choices of uninformed voters over time by session. First observe that there are sharp changes in behavior immediately following a change in partisan bias as shown in Table 1. Second, there appear to be some differences related to the order of variation in partisans when \( \pi = \frac{1}{2} \): the probability of voting for \( b \) is lower in the Partisans First treatment than in the Partisans Last treatment for all values of \( m \). However, this difference is only significant when \( m = 6 \) and \( m = 12 \). This difference is expected since in the Partisans First treatment there were less voters, \( n = 17 \), compared to \( n = 21 \) in the Partisans Last session so the predicted probability of voting for \( b \) in that session is greater and not surprisingly subjects are influenced by this change. We also find differences between the two sessions when \( \pi = \frac{5}{9} \). In particular we see more voting in the Partisans Last variation than in the Partisans First variation. When \( m = 0 \) uninformed voters are significantly more likely to vote for \( b \) in the Partisans Last treatment than in the Partisans First treatment. Furthermore, when \( m = 0 \) and 6, uninformed voters are significantly more likely to vote for \( a \) in the Partisans Last variation. These differences appear to reflect differences in ordering of the treatments.

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7 The \( t \) statistics are 0.62, 2.09, and 5.12 for \( m = 0, 6, \) and 12, respectively.
8 The \( t \) statistic is 1.92.
9 The \( t \) statistics are 5.33 and 1.85 for \( m = 0 \) and 6, respectively.
III.2 Efficiency of Choices

Our analysis of voting behavior provides support for the swing voter’s curse but also suggests that many uninformed voters vote for $a$. This deviation from optimal behavior should have consequences for efficiency, measured by the percentage of correct group decisions. In particular, when there are partisans, it should lead to higher than expected efficiency in state $A$ and lower than expected efficiency in state $B$, with the latter effect increasing in $m$. We find that this is indeed the case. Across all treatments, we observe 100% efficiency in state $A$ for all values of $m$ and both values of $\pi$, a small increase relative to the predicted. In contrast, when the true state is $B$, we observe efficiencies of 97%, 89%, and 53% for the $m = 0, 6, 12$ treatments, respectively, with no difference across the two $\pi$ treatments. The efficiency difference between the $m = 12$ and the other $m$ treatments in state $B$ are significant at the 5% level. Thus, when there are zero partisans, we find nearly perfect efficiency, but efficiency in state $B$ falls off sharply with the number of partisans.

Table 2 summarizes the mean efficiency results by the state of the world and treatment (with ties coded as 0.5) with the mean predicted efficiency given the number of informed voters in each period and predicted voting behavior.
Table 2 - Mean Efficiency by Treatment

<table>
<thead>
<tr>
<th>Treatment</th>
<th>State</th>
<th>Cases</th>
<th>Actual</th>
<th>Predicted</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\pi - \frac{1}{2}, m = 0$</td>
<td>State A</td>
<td>11</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>State B</td>
<td>9</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>$\pi = \frac{1}{2}, m = 6$</td>
<td>State A</td>
<td>14</td>
<td>1</td>
<td>0.98</td>
</tr>
<tr>
<td></td>
<td>State B</td>
<td>6</td>
<td>0.83</td>
<td>0.99</td>
</tr>
<tr>
<td>$\pi = \frac{1}{2}, m = 12$</td>
<td>State A</td>
<td>15</td>
<td>1</td>
<td>0.93</td>
</tr>
<tr>
<td></td>
<td>State B</td>
<td>5</td>
<td>0.50</td>
<td>0.98</td>
</tr>
<tr>
<td>$\pi = \frac{5}{9}, m = 0$</td>
<td>State A</td>
<td>14</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>State B</td>
<td>6</td>
<td>0.92</td>
<td>1</td>
</tr>
<tr>
<td>$\pi = \frac{5}{9}, m = 6$</td>
<td>State A</td>
<td>7</td>
<td>1</td>
<td>0.99</td>
</tr>
<tr>
<td></td>
<td>State B</td>
<td>13</td>
<td>0.92</td>
<td>0.98</td>
</tr>
<tr>
<td>$\pi = \frac{5}{9}, m = 12$</td>
<td>State A</td>
<td>9</td>
<td>1</td>
<td>0.84</td>
</tr>
<tr>
<td></td>
<td>State B</td>
<td>11</td>
<td>0.55</td>
<td>0.98</td>
</tr>
</tbody>
</table>

IV CONCLUDING REMARKS

The central finding from this study is that most of the predictions of swing voter curse theory hold up in large elections conducted under controlled laboratory conditions. There is significant abstention, and significant balancing of partisans by uniformed voters; and vote balancing increases with the partisan imbalance. Elections with no partisan imbalance successfully aggregate information and lead to efficient outcomes. Consistent with swing voter curse theory, this efficiency falls off as partisan imbalance increases, but to a significantly greater extent than is predicted in equilibrium.

It is instructive to compare these findings in large elections with results from the smaller elections reported in Battaglini et al. (2007). All of the qualitative results are the same, concerning the comparative statics, balancing, and abstention. One slight difference is that there was less (irrational) voting for $a$ in the small elections than in the large elections, except for the $\pi = 5/9 m = 0$ treatment, where we observed 20% voting for $a$ in the small elections, compared with 10% voting for $a$ in the large elections. These differences were reflected in slightly different efficiency results between small and large elections, with the comparisons mirroring the differences in voting for $a$: more (irrational) $a$ voting results in lower efficiency.

We conclude that this scaled-up study successfully replicates the initial swing voter’s curse
experiment reported in Battaglini et al. (2007), obtaining very similar findings in laboratory committees that are three times the size of those in the original study. The one caveat is that we found evidence of a slight increase in irrational nonequilibrium behavior (voting for a) in the larger elections. Whether this trend would continue as election size is further scaled up is an open question.

References


