Historical Presidential Betting Markets

Paul W. Rhode and Koleman S. Strumpf

Wagering on political outcomes has a long history in the United States. As Henry David Thoreau (1848 [1967], p. 36) noted: “All voting is a sort of gaming, . . . and betting naturally accompanies it.” This paper analyzes the large and often well-organized markets for betting on presidential elections that operated between 1868 and 1940. Over $165 million (in 2002 dollars) was wagered in one election, and betting activity at times dominated transactions in the stock exchanges on Wall Street.

Drawing on an investigation of several thousand newspaper articles, we develop and analyze data on betting volumes and prices to address four main points. First, we show that the market did a remarkable job forecasting elections in an era before scientific polling. In only one case did the candidate clearly favored in the betting a month before Election Day lose, and even state-specific forecasts were quite accurate. This performance compares favorably with that of the Iowa Electronic Market (currently the only legal venue for election betting in the United States). Second, the market was fairly efficient, despite the limited information of participants and attempts to manipulate the odds by political parties and newspapers. Third, we argue political betting markets disappeared largely because of the rise of scientific polls and the increasing availability of other forms of gambling. Finally, we discuss lessons this experience provides for the present.1

1 Rhode and Strumpf (2004) provide a fuller analysis and a discussion of the data sources. This research has benefited from a recent innovation, the ability to search and access (via Proquest) machine-readable editions of historical newspapers including the New York Times, Wall Street Journal and Washington Post. Roughly one-half of our citations were found using old-fashioned microfilm and one-half using the new computer search engine. In alphabetical order, the newspapers that we searched as background for this article were the Chicago Tribune, New York Sun, New York Times, New York Tribune, New York World, St. Louis Post-Dispatch, Wall Street Journal and Washington Post.

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Size and Scope of Historical Betting Markets

A large, active and highly public market for betting on elections existed over much of U.S. history before the Second World War. Contemporaries noted this activity dated back to the election of Washington and existed in organized markets (such as financial exchanges and poolrooms) since the administration of Lincoln. Although election betting was often illegal, the activity was openly conducted by “betting commissioners” (essentially bookmakers) and employed standardized contracts that promised a fixed dollar payment if the designated candidate won office. The standard practice was for the betting commissioner to hold the stakes of both parties and charge a 5 percent commission on the winnings.

Although such markets emerged in most major cities, New York was the center of national betting activity. The scattered available evidence suggests that the New York market accounted for over one-half of the total election betting. The organization and location of the New York market evolved over time. In the 1880s, betting moved out of the poolrooms and became centered on the Curb Exchange (the informally organized predecessor to the AMEX) and the major Broadway hotels until the mid-1910s. In the 1920s and 1930s, specialist firms of betting commissioners, operating out of offices on Wall Street, took over the trade. In the 1890s and early 1910s, the names and relatively modest (four-figure) stakes of bettors filled the daily newspapers, but by the 1930s, most of the reported wagering involved large (six-figure) amounts advanced by unnamed leaders from the business or entertainment worlds.

The extent of activity in the presidential betting markets of this time was astonishingly large. For brief periods, betting on political outcomes at the Curb Exchange in New York would exceed trading in stocks and bonds. Crowds formed in the financial district—on the Curb or in the lobby of the New York Stock Exchange—and brokers would call out bid and ask odds as if trading securities. In presidential races such as 1896, 1900, 1904, 1916 and 1924, the New York Times, Sun and World provided nearly daily price quotations from early October until Election Day.

Table 1 assembles newspaper estimates, converted to 2002 dollars, of the sums wagered in the New York market in the presidential elections from 1884 to 1928. For context, the table also shows the total bets divided by the number of votes cast and by the total spending of the national presidential campaigns. The betting volume varied depending on the closeness of the races, enthusiasm for the candidates and the legal environment. The 1916 election was the high point, with some $165 million (in 2002 dollars) wagered in the organized New York markets. This amount was more than twice the total spending on the election campaigns that year. The average betting volume was over 200 times the maximum amount wagered in any election in the Iowa Electronic Market (Berg, Nelson and Rietz, 2003).

The New York betting markets were widely recognized for their remarkable ability to predict election outcomes. As the New York Times (September 28, 1924, p. E1) put it, the “old axiom in the financial district [is] that Wall Street betting odds are ‘never wrong.’” As a basic, if unsophisticated, measure of the accuracy of the betting markets, the favorite almost always won, the only exception being in 1916 when betting initially favored the eventual loser (Hughes), but swung to even odds by the time the polls closed. In the 15 elections between 1884 and 1940, the mid-October betting favorite won 11 times (73 percent), and the underdog won only once (when in 1916, Wilson upset Hughes on the west coast). In the remaining three contests (1884–1992), the odds were essentially even throughout and the races very close. The capacity of the betting markets to aggregate information is all the more remarkable given the absence of scientific polls before the mid-1930s. The betting odds possessed much better predictive power than other generally available information. Moreover, the betting market was not succeeding by just picking one party or by picking incumbents. Over this period, Republicans won eight of the elections in the Electoral College and Democrats seven; the party in power won eight, the opposition seven.

Figure 1 offers a sense of how informative the betting odds were. The horizontal axis shows the Democratic margin in the popular vote. The vertical axis shows the Democratic “odds price,” which is the price of a contract paying one dollar (before commissions) if the designated candidate wins. For example, a wager placing a $2 stake on a candidate’s victory against a $1 stake on the candidate’s loss is equivalent to a 0.667 odds price on the candidate. Each labeled point represents a single election and shows the average of the odds price over the relevant

### Table 1

<table>
<thead>
<tr>
<th>Year</th>
<th>2002 dollars (millions)</th>
<th>Dollars per votes cast</th>
<th>Dollars per campaign spending</th>
</tr>
</thead>
<tbody>
<tr>
<td>1884</td>
<td>13.7</td>
<td>1.36</td>
<td>0.278</td>
</tr>
<tr>
<td>1888</td>
<td>37.6</td>
<td>3.30</td>
<td>0.907</td>
</tr>
<tr>
<td>1892</td>
<td>14.8</td>
<td>1.23</td>
<td>0.185</td>
</tr>
<tr>
<td>1896</td>
<td>10.7</td>
<td>0.77</td>
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</tr>
<tr>
<td>1900</td>
<td>63.9</td>
<td>4.57</td>
<td>0.876</td>
</tr>
<tr>
<td>1904</td>
<td>50.3</td>
<td>3.72</td>
<td>0.894</td>
</tr>
<tr>
<td>1908</td>
<td>7.7</td>
<td>0.52</td>
<td>0.174</td>
</tr>
<tr>
<td>1912</td>
<td>4.6</td>
<td>0.30</td>
<td>0.087</td>
</tr>
<tr>
<td>1916</td>
<td>165.0</td>
<td>8.90</td>
<td>2.116</td>
</tr>
<tr>
<td>1920</td>
<td>44.9</td>
<td>1.68</td>
<td>0.726</td>
</tr>
<tr>
<td>1924</td>
<td>21.0</td>
<td>0.72</td>
<td>0.373</td>
</tr>
<tr>
<td>1928</td>
<td>10.5</td>
<td>0.29</td>
<td>0.086</td>
</tr>
<tr>
<td>Average</td>
<td>37.0</td>
<td>2.28</td>
<td>0.532</td>
</tr>
</tbody>
</table>

Notes: These figures report newspaper estimates of total bet volume over the course of the election cycle. See Rhode and Strumpf (2004) for details.
observation period. The solid line shows the best-fit cubic regression line using the outcome to "explain" the odds price 1–15 days before the election, while the dashed line shows the results for odds price 31–45 days prior. The relationship between odds prices and the eventual outcome was increasing over the 31–45 days period, indicating that market sentiment was reflecting the election probabilities. As Election Day approached, sentiment grew stronger in contests that would have a decisive outcome. That is, for the two weeks (1–15 days) just prior to the election, odds became much less favorable for the Democrat in elections he eventually lost by a significant margin and more favorable in those he won by a significant margin.

Another indication of the predictive power of the betting markets is that they were highly successful in identifying those elections—1884, 1888, 1892 and 1916—that would be very close (with vote margins of less than 3.5 percent). Figure 1 shows that the market odds correctly predicted these elections that would be tossups. In close elections where the final results were reported slowly—1876, 1884 and 1916—a vigorous postelection market emerged to allow further betting. Figure 2 presents daily odds price in 1916 from the New York market and the 2000 Iowa Electronic Markets Winner-Take-All contract, highlighting the postelection swings common to both of these two contests. (In the early morning following Election Day in 2000, the implicit odds on the Democrats fell to near zero in the Iowa Electronic Markets Winner-Take-All market. Because the Democrats won a plurality of the popular votes, which was the basis of the Iowa contract, the odds price rose to unity over the next day.)

When an election would be decided by a wide margin, the betting markets
Figure 2
Comparing 1916 and 2000 Elections

Panel A: New York Market for 1916 Election

Panel B: Iowa Electronic Market Data for 2000 Election

were generally successful in picking the winner early. Table 2 shows the dates when odds price permanently passed various thresholds for selected presidential races. In many elections decided by a wide margin, the odds price on the favorite started high and accelerated to still higher levels as Election Day approached. This pattern is illustrated in Figure 3, which compares the favorite’s odds price in the 1924 New York betting market with those in the 1996 Iowa Electronic Markets Winner-Take-All contract.
Covering developments in the Wall Street betting market was a staple of election reporting before World War II. Prior to the innovative polling efforts of Gallup, Roper and Crossley, the other information available about future election outcomes was limited to the results from early-season contests, overtly partisan canvasses and straw polls of unrepresentative and typically small samples. The largest and best-known nonscientific survey was the *Literary Digest* poll, which tabulated millions of returned postcard ballots that were mass mailed to a sample drawn from telephone directories and automobile registries. After predicting the presidential elections correctly from 1916 to 1932, the *Digest* famously called the 1936 contest for Landon in the election that F. Roosevelt won by the largest Electoral College landslide of all time. Notably, although the Democrat’s odds prices were relatively low in 1936, the betting market did pick the winner correctly (see the third row of Table 2). The published price quotes allowed people who had not followed the election to catch up immediately. For example, when Andrew Carnegie returned in late October 1904 from his annual vacation to Scotland, he stated at his arrival press conference (*New York Times*, October 24, 1904, p. 1): “From what I see of the betting, . . . I do not think that Mr. Roosevelt will need my vote. I am sure of his election. . . .”

The betting quotes filled the demand for accurate odds from a public widely interested in wagering on elections. In this age before mass communication technologies reached into America’s living rooms, election nights were highly social
events, comparable to New Year’s Eve or major football games. In large cities, crowds filled restaurants, hotels and sidewalks in downtown areas where newspapers and brokerage houses would publicize the latest returns and people with sporting inclinations would wager on the outcomes. Even for those who could not afford large stakes, betting in the run-up to elections was a cherished ritual. A widely held value was that one should be prepared to “back one’s beliefs” either with money or more creative dares. Making freak bets—where the losing bettor literally ate crow, pushed the winner around in a wheelbarrow or engaged in similar public displays—was wildly popular. Gilliams (1901, p. 186) offered “a moderate
estimate” that in the 1900 election “there were fully a half-million such [freak] bets—about one for every thirty voters.” In this environment, it is hardly surprising that the leading newspapers kept their readership well informed about the latest market odds.

**Markets versus Manipulation**

Newspapers of this time couched their explanations of the accuracy of the Wall Street betting odds with analogies to stock prices. The *New York Times* wrote on October 7, 1924, (p. 18) “The Wall Street odds represent the consensus of a large body of extremely impartial opinion that talks with money and approaches Coolidge and Davis as dispassionately as it pronounces judgment on Anaconda and Bethlehem Steel.” Similarly, a few days later another article in the *Times* explained (October 10, 1924, p. E9):

Wall Street is always the place to which inside information comes on an election canvas . . . [and] it is a Wall Street habit, when risking a large amount of money, not to allow sentiment or partisanship to swerve judgments—an art learned in stock speculation; . . . any attempt to force odds in a direction unwarranted by the facts will always instantly attract money to the opposite side, precisely as overvaluation of a stock on the market will cause selling and its under-valuation will attract buying.

In the 1920s and 1930s, when betting activity moved toward specialist firms, the participants did not wait for political insiders to enter with private information, but instead began to conduct their own market analysis. According to a 1924 *Wall Street Journal* story (September 29, p. 13), the “betting firms maintain a statistical department for the benefit of their customers and also have a man present at the principal speeches made by the candidates. This man makes unbiased reports of the psychological reactions of the audiences.” In 1936, according to the *Washington Post* (November 3, p. 16), upon becoming suspicious of the results of the *Literary Digest* canvas, Sam Boston, “American’s most distinguished betting commissioner,” began “conducting his own election poll.”

At least two specific mechanisms could lead betting markets to aggregate information appropriately. The first case involves well-informed betting commissioners who serve as market makers and use their impartial beliefs to set the prices competitively. The commissioners have incentive to participate despite an absence of profit-making trades because they collect commissions. The second mechanism allows for partisan bettors lacking aggregate information. If each voter placed a one-dollar bet for his favorite candidate in a pari-mutuel, the betting totals would accurately pick the winner (though the price would not typically equal the probability of winning).

Working against the market forces leading to information aggregation were motivations to manipulate the odds for political gain. Given that the betting odds were taken as good indicators of the candidate’s strength, the betting markets
potentially provided a lever for influencing expectations. The newspapers periodically contained charges that partisans were manipulating the reported betting odds to create a bandwagon effect. This could happen if the reported betting was only a “wash sale” between confederates or it occurred outside the open market. Partisan newspapers also played a role through selective reporting. The most common thinking was that pushing up odds helped the preferred candidate by depressing the effort and turnout for the opposing candidate. If the marginal bettor was a partisan, was influenced by a manipulation or received information from a biased source, the markets would systematically err in their predictions.

The press did frequently refer to the betting activities of officials associated with the Republican and Democratic National Committees, with state party organizations from across the east and especially with Tammany Hall (the New York City Democratic machine). The newspapers recorded many betting and bluffing contests between Col. Thomas Swords, Sergeant of Arms of the National Republican Party, and Democratic betting agents representing Richard Croker, Boss of Tammany Hall, among others. In most but not all instances, these officials appear to bet in favor of their party’s candidate; in the few cases where they took the other side, it was typically to hedge earlier bets.

However, there are only a few minor instances where market manipulation appears plausible. For example, in 1892, the Republican campaign managers went at midnight to the Hoffman House, the Democratic hangout, offering to bet large stakes at odds consistent with their candidate having a better than previously expected chance of winning. Only small fry were around, not the big Tammany money, so the offered large bets were not taken. The odds quoted in the newspapers made the Republican candidate appear stronger than he was (New York Times, November 8, 1892, p. 8).

Another barrier to accurate forecasts was the lack of national information sources. Over most of this period, news spread by telegraphs and was first made public in newspapers. As a result, news events might only slowly be reflected in prices. This effect might also dampen the odds price on favorites because there was always the possibility of latent bad news arriving. Also, since certain geographic areas received news later, a possibility existed of traders from information-rich areas earning excess returns, a topic we return to below.

One other potential friction did not prove to be problematic. The betting market repeatedly had to confront elections that were not decided until long after the polls closed. In the 1876 Hayes-Tilden race, the outcome was disputed for months after Election Day with the political parties charging each other with fraudulently manufacturing votes. A special Electoral Commission eventually resolved this hotly contested election on a strict party-line vote. The acrimony spilled over into the betting market, where John Morrissey, the leading New York pool-seller (where the winners divide the total pool of money bet, minus the commission), opted to cancel the pools, returning the stakes minus his commission. This solution, while understandable, left many unsatisfied and contributed to the push in the next session of the New York legislature to outlaw pool-selling. In later years, betting commissioners handled contested elections by making the contracts
contingent on whomever took office and by withholding payment until one candidate officially conceded. Indeed, they often kept the betting action alive. In the close 1884 election, betting lasted until the Friday after the election. In 1916, the leading betting commissioners did not settle up until November 23, almost two weeks after the polls closed. In the 1888 contest, when Harrison won the electoral college vote outright (233–168) and yet Cleveland very narrowly won the popular vote, settlement in favor of Harrison bettors occurred without a hitch.

Market Efficiency

In an efficient capital market, asset prices reflect all relevant information and thus provide the best prediction of future events given the current information (Roll, 1984). Because election bets are paid on victory (a binary event), efficient prices in this market should reflect the probabilities of the election outcomes. We now test whether the election betting market satisfies a standard set of efficiency conditions: arbitrage-free pricing, weak-, semistrong- and strong-form efficiency (Fama, 1970). Efficiency tests based on more structured models appear in Rhode and Strumpf (2004).

One of the weakest conditions for efficiency is arbitrage-free pricing, so that participants cannot instantly profit from simultaneously trading some set of contracts. In the context of election betting markets, the sum of the odds prices on all possible candidates cannot differ from a dollar by more than commission costs. For example, if the sum of prices on bets paying a dollar is strictly less than a dollar, then (abstracting from commissions) a trader can guarantee a profit by purchasing one share of each contract, since this ensures betting less than a dollar to win a dollar. We can evaluate this hypothesis in those elections when we observe the prices for all distinct contracts, as in 1912, 1916 and 1924. The arbitrage-free condition holds in most such cases, but it is violated for certain periods. For example, the Hughes and Wilson prices sum to less than a dollar during eight days in the beginning of September 1916, and the Wilson, Roosevelt and Taft prices sum to more than a dollar for the ten days just prior to the election in 1912. These differences are larger than the typical 5 percent commission rate, making arbitrage possible. Still, such violations are rare. In only 25 out of 807 observations are the sums far enough from one dollar to allow arbitrage. Moreover, it is unclear how many shares a participant could trade before altering the odds and eliminating the possibility of arbitrage.

A related arbitrage condition is the law of one price. This states that prices at different locations should be close enough, taking commission and transportation costs into account, that investors cannot simultaneously buy and sell contracts for a profit. The law of one price appears to hold for the various markets within New York City. Prices on a given contact usually differed by no more than a tick, and different newspapers reported that virtually the same odds were available on a given day (when listings are available from multiple newspapers, the correlation coefficient for the prices is 0.983 with N = 344). Cursory evidence indicates price
variations across U. S. cities existed, but tended to be small. We also know that investors actively worked to arbitrage pricing gaps and that at least one betting commissioner maintained offices in both New York and Chicago (Washington Post, November 1, 1932, p. 9).

A capital market is weak-form efficient if historical asset prices cannot be used to devise profitable trading rules. A loose implication of weak-form efficiency is that it is not possible to forecast prices using lagged price data, implying prices follow a random walk. Consistent with this, we find it is not possible to reject the hypothesis that daily odds prices follow a random walk in our 1884–1940 sample ($N = 236$). Another test considers whether price changes can be forecast using historical data. When we regress the change in daily prices on its lags, the lagged prices do not have statistically significant effects ($N = 120$). These simple tests are broadly consistent with weak-form efficiency and parallel results for the presidential betting markets in the Iowa Electronic Markets (Berg, Nelson and Reitz, 2003).

A capital market satisfies semistrong-form efficiency if an investor cannot expect to make excess returns based on publicly available information. A simple if low-powered test is to examine whether one could use generally available information to devise a betting rule that would yield profits above the commission costs. We experimented with three simple rules involving buying a single contract paying one dollar on 1) the Democrat; 2) the market favorite; or 3) the party in power. We also consider the alternative of betting one dollar (instead of buying one contract) on

\[^{3}\text{As examples, a 1888 Chicago Tribune survey of 10 major cities on election eve revealed the coefficient of variation of the odds prices was only 5.1 percent (November 6, 1888, p. 3), and a similar New York World survey of 13 cities in 1916 have a coefficient of variation of 4.6 percent (November 7, 1916, p. 1).}\]

\[^{4}\text{We estimate the equation}\]

\[
\text{price}_t = \alpha + \beta \times \text{price}_{t-1} + \epsilon_t
\]

where $\text{price}_t$ is the price of some contract in election $i$ occurring at day $t$ and $\text{price}_{t-1}$ is a lag of price. The estimated $\beta$s are 1.01, 1.01 and 0.99 for Democrat, Incumbent and Market Favorite party contracts, and these are statistically indistinguishable from unity (using classical or robust standard errors); the estimated $\alpha$s are each indistinguishable from zero. We find similar results for an AR(2) process. Note this approach may be misspecified because efficiently priced options with termination dates can have a deterministic drift. Intuitively, as Election Day approaches, uncertainty about the outcome is likely to diminish because more voters make up their minds and there are fewer opportunities for an “October surprise.” The favorite’s probability of victory (and thus his market price) increases to one—as illustrated in Figure 3—while that of the underdog falls to zero. After accounting for these effects, we still cannot reject weak-form efficiency. See Rhode and Strumpf (2004) for a detailed theoretical and empirical treatment of this issue.

\[^{5}\text{The equation we estimate is}\]

\[
\Delta \text{price}_t = \beta_0 + \beta_1 \times \Delta \text{price}_{t-1} + \beta_2 \times \Delta \text{price}_{t-2} + \epsilon_t,
\]

where the variables are defined in the previous note. The estimated ($\beta_1$, $\beta_2$)s are ($-0.24$, 0.14), ($-0.26$, 0.12) and ($-0.29$, 0.14) for Democrat, Incumbent and Market Favorite party contracts, and these are statistically indistinguishable from zero using robust standard errors. When just a single price lag is used, the estimated parameters are significantly negative. However, we find somewhat analogous results in analyzing the Democrat party contract for the Iowa Electronic Markets Winner-Take-All presidential market using daily price data from 1992, 1996 and 2000.
each of these choices, which places more weight on longshots. We found that buying one-dollar contracts on the Democrats, favorites and members of the incumbent party tended to be winning strategies over the 1884–1940 period.\textsuperscript{6} However, the positive returns are not at all robust. The winning strategies typically yielded small net returns relative to their standard deviations. Moreover, strategies that made money in the first half of the time period (such as betting against the favorite) often lost in the second half of the time period. Some choices made money when the strategy was implemented in the form of betting one dollar, but not in the form of buying one contract, or vice versa. These results, as well as the more formal tests reported in Rhode and Strumpf (2004), suggest that it was difficult to use public information to construct a winning betting strategy. Again, the modern Iowa Electronic Market provides a useful benchmark. For the 1992–2000 period, we found that its Winner-Take-All bets allowed similar profitable opportunities—although this result should be viewed with caution given the small number of elections in the Iowa data.

Finally, we consider strong-form efficiency, which involves whether an investor can earn excess profits using private information. While this hypothesis is difficult to quantify, there are several reports of insiders profiting from superior information about specific states. In 1916, for example, some west coast investors wagered heavily on Wilson because they believed he would achieve an upset win in California, which he did (\textit{Wall Street Journal}, October 31, 1916, p. 8). Leveraging on superior local information, several Ohioans fronted by the famous New York boxing promoter Tex Rickard (who was the main force behind the building of Madison Square Garden) placed a $60,000 wager on Wilson to win their state (\textit{New York Times}, October 28, 1916, p. 1). These beliefs must have been strong ones, because the wager moved the odds price by nearly ten percentage points, and again the investors proved correct. It seems that insiders were able to profit from their information advantage, but rejections of strong efficiency are typical of most capital markets.

In conclusion, the historical betting markets do not meet all of the exacting conditions for efficiency, but the deviations were not usually large enough to generate consistently profitable betting strategies using public information.\textsuperscript{7} The performance of the market was comparable to its modern counterparts and, given the barriers to efficiency discussed earlier, quite remarkable.

\textsuperscript{6} The result for favorites is of interest since it suggests the possibility that markets did not place a high enough probability on the favorite, which is consistent with the favorite-long shot bias observed in racetrack betting (Thaler and Ziemba, 1988). One explanation for this finding is the role of commissions when one party is the heavy favorite. Suppose the Democrats are known to be more than 95 percent likely to win a contest. A bookmaker cannot offer these objective odds because the bettors will not be able to overcome the standard 5 percent commission. Hence, market odds must be biased down in such extreme election cases. The result concerning the underpricing of Democrats might reflect the influence of wealthier, partisan Republican bettors.

\textsuperscript{7} The wager markets on state election outcomes over this time period more convincingly fail the efficiency conditions. Rhode and Strumpf (2004) devise various profitable betting strategies based on public information. This result is unsurprising given that the state markets were far thinner than the national market.
The Decline of Political Wagering

The newspapers reported substantially less betting activity in specific contests and especially after 1940. In part, this reduction in reporting reflected a growing reluctance of newspapers to give publicity to activities that many considered unethical. There were frequent complaints that election betting was immoral and contrary to republican values. Among the issues that critics raised were moral hazard, election tampering, information withholding and strategic manipulation.8

In response to such concerns, New York state laws did increasingly attempt to limit organized election betting. Casual bets between private individuals always remained legal in New York. However, even an otherwise legal private bet on elections technically disqualified the participants from voting—although this provision was rarely enforced—and the legal system also discouraged using the courts to collect gambling debts. Antigambling laws passed in New York during the late 1870s and the late 1900s appear to put a damper on election betting, but in both cases, the market bounced back after the energy of the moral reformers flagged. Ultimately, New York’s legalization of pari-mutuel betting on horse races in 1939 may have done more to reduce election betting than any antigambling policing. With horseracing, individuals interested in gambling could wager on several contests promising immediate rewards each day, rather than waiting through one long political contest.

New York state was not alone in changing the legal and regulatory environment for election betting activity. The New York Stock Exchange and the Curb Market also periodically tried to crack down. The exchanges characteristically did not like the public to associate their socially productive risk-sharing and risk-taking functions with gambling on inherently zero-sum public or sporting events. In the 1910s and again after the mid-1920s, the stock exchanges passed regulations to reduce the public involvement of their members. In May 1924, for example, both the New York Stock Exchange and the Curb Market passed resolutions expressly barring their members from engaging in election gambling. After that, while betting activity continued to be reported in the newspapers, the articles rarely named the participants. During the 1930s, the press noted that securities of private electrical utilities had effectively become wagers on Roosevelt (on the grounds that New Deal policy initiatives such as the formation of the Securities and Exchange Commission and the Tennessee Valley Authority constrained the profits of existing private utilities).

A final force pushing election betting underground was the rise of scientific polling. For newspapers, one of the functions of reporting Wall Street betting odds had to provide the best available aggregate information. Following the success of Gallup in predicting the 1936 election, many newspapers stopped lending credence to the Literary Digest poll. The scientific polls, available on a weekly basis,
provided the media with a ready substitute for the betting odds, one not subject to
the moral objections against gambling. Our survey of the *Washington Post* and *New
York Times* indicates that articles on the *Literary Digest* poll began to outnumber
those on election betting in 1924 and 1928, respectively. Articles related to the
Gallup poll began to appear in 1936 and to outnumber those in the other two
categories by 1940. Whatever election betting continued to occur received far less
media attention.

**Lessons for the Future**

Wagering on presidential elections has a long tradition in the United States,
with large and often well-organized markets operating for over three-quarters of a
century before World War II. The resulting betting odds proved remarkably pre-
scient and almost always correctly predicted election outcomes well in advance,
despite the absence of scientific polls. This historical experience suggests a prom-
ising role for other prediction markets. Our analysis complements a substantial
body of experimental research that has hinted that asset markets can successfully
aggregate information (Forsythe, Palfrey and Plott, 1982; Plott and Sunder, 1988).
The informational efficiency of prediction markets has also been investigated in the
field, such as Camerer’s (1998) study of the difficulty of manipulating racetrack
pari-mutuel betting and Leigh, Wolfers and Zitzewitz’s (2003) study of futures
markets on war probabilities.

However, recent experience indicates public skepticism about applying mar-
kets to novel situations. In summer 2003, word leaked out that the Department of
Defense was considering setting up a Policy Analysis Market, somewhat similar to
the Iowa Electronic Market, which would seek to provide a market consensus about
the likelihood of international political developments, especially in the Middle
East. Critics argued that this market was subject to manipulation by insiders and
might allow extremists to profit financially from their actions. But these concerns
were also evident in the historical wagering on presidential elections, with partisans
serving as active participants and contemporary fears of election tampering. Al-
though large sums of money were at stake in the historical presidential betting
markets, we are not aware of any evidence that the political process was seriously
corrupted by the presence of a wagering market. There are obviously important
differences between the proposed Policy Analysis Market and the New York betting
market, but the experience described in this paper suggests that many current
concerns about the appropriateness of prediction markets are not well founded in
the historical record.

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