



Data Mining for Potential Voter Fraud

Findings and Recommendations



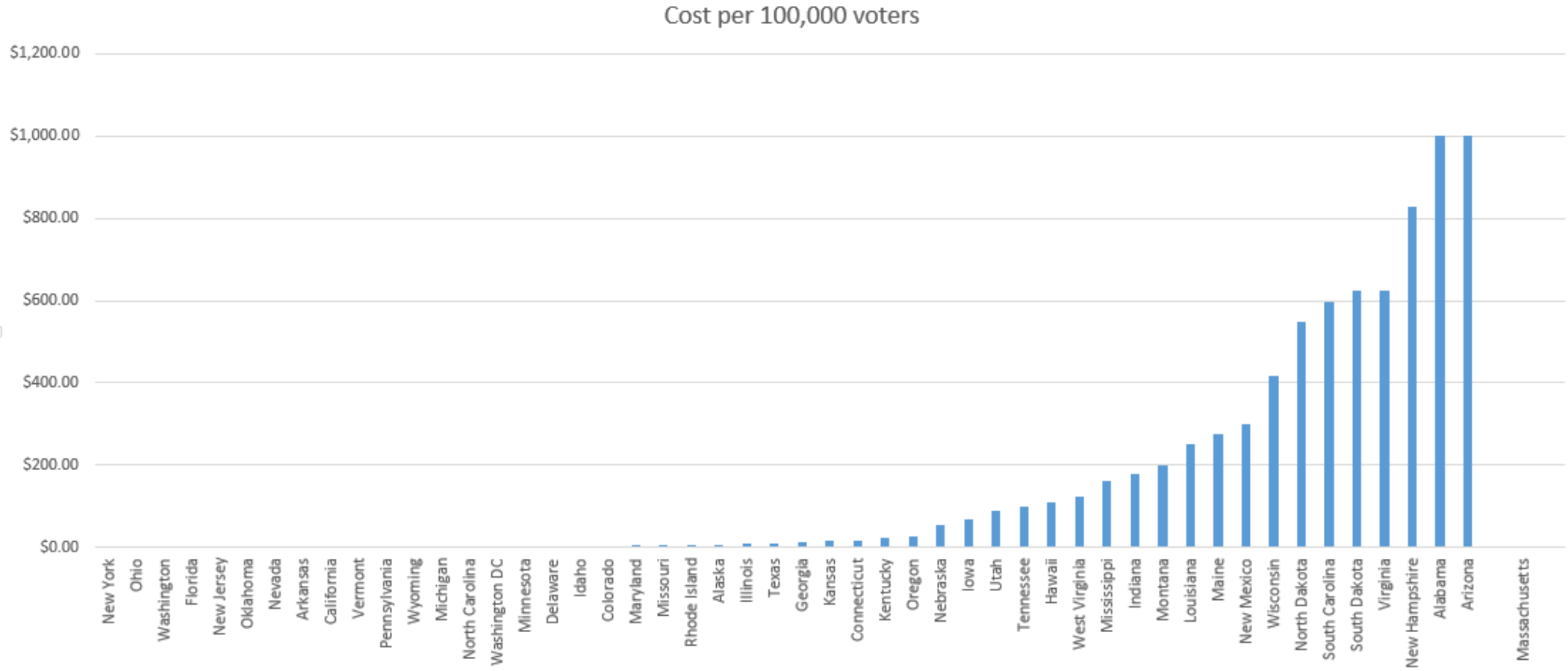
Does voter fraud exist?

- Most studies don't look for fraud
 - No government agency is looking for voter fraud
 - Getting data from all 50 states is very difficult
- ❖ **If you do not search for it, you will not find it**

Challenges to looking for voter fraud

- Some states deny access to data
 - Some states make access to data cost prohibitive
 - States do not provide all of the same data elements
- ❖ **The variability in access, quality, cost and data provided impedes the ability to examine voter activity between states**

The wide variability in cost of voter data



Finding: Indicators of potential voter fraud

- Every state showed a percentage of duplicate voting
 - Approximately 8,500 pairs of duplicate votes among 21 states
 - Approximately 200 couples voted together in two different states
- ❖ **We extrapolate that there would be 40,000 duplicate votes if data from every state were available**

Voting twice is a felony

- Up to 5 years in prison
- Up to a \$10,000 fine
- These pairs of votes are either:
 - One person voting twice
 - One person voting properly and the matched vote is a case of impersonation
 - Some form of clerical error

Methodology

- We matched potential duplicate votes based on full first and last names and full dates of birth. We allowed for variability in middle names by using 'fuzzy matching'.
- Potential matches were then screened by a commercial database vendor with access to financial data including full Social Security numbers.
- Only pairs of votes where the social security numbers matched are counted as high-confidence matches.

Is a sample of 8,500 duplicate votes meaningful?

- Millions of fraudulent votes not needed for huge impact
- George W. Bush became president by 537 votes in Florida for an election where 5,825,043 votes were cast
 - Those 537 votes represented .0000921 of the Florida vote
- ❖ Roughly 2,200 duplicate voters cast a ballot in the 2016 presidential election in Florida, four times Bush's margin of victory in 2000

These votes can impact state and local elections

- More than 200 duplicate votes cast in Orlando

Focus: Can a fake voter cast a ballot?

- Finding: Yes, In Rhode Island
 - Confirmed by Rhode Island Secretary of State Gorbea
 - No Social Security number, no driver's license
 - Utility bill accepted as proof of identity for Voter ID card



JOHN JACOB JINGLEHEIMER
 20 ALTIERI WAY UNIT 3
 WARWICK RI 02886

Jun 13, 2017 to Jul 12, 2017

ACCOUNT NUMBER

PLEASE PAY BY

AMOUNT DUE

67XXX-XXX

Aug 6, 2017

\$ 55.00

NATURAL GAS BILL

www.nationalgridus.com
 CUSTOMER SERVICE
 1-800-322-3223
 CREDIT DEPARTMENT
 1-888-211-1313
 GAS EMERGENCIES
 1-800-840-1595
 POWER OUTAGE OR DOWNED LINE
 1-800-465-1212
 CORRESPONDENCE ADDRESS
 PO Box 960
 Northborough, MA 01532-0960
 PAYMENT ADDRESS
 PO Box 11739
 Newark, NJ 07101-4739

DATE BILL ISSUED
 Jul 13, 2017

ACCOUNT BALANCE

Previous Balance	154.02
Payment Received on JUN 15 (ACh)	- 122.54
Balance Forward	31.48
Current Charges	+ 23.52
Amount Due	\$ 55.00

To avoid late payment charges of f.25%, \$ 55.00 must be received by Aug 62017.

SUMMARY OF CURRENT CHARGES

	DELIVERY SERVICES	SUPPLY SERVICES	OTHER CHARGES/ ADJUSTMENTS	TOTAL
Gas Service	22.81	.00		22.81
Other Charges/Adjustments			0.71	0.71
Total Current Charges	\$ 22.81		\$ 0.71	\$ 23.52

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t> What is the Energy Efficiency Charge on my bill? This charge funds Energy Efficiency programs that can help consumers lower their energy usage and bills, improve comfort in their homes or businesses, and lower pollutants and carbon emissions in our communities. To learn how to take advantage of these programs and your eligibility, please call 1-866-903-2811 or visit www.ngrid.com/ri-ee.

***** WILL WE BE ABLE TO REACH YOU DURING A POWER OUTAGE?: During a power outage, phones with a direct link to a local phone line are able to operate. Phones that are not directly linked (for example, wireless phones with answering machines) need electricity to make/receive calls. If you would like to register another phone number, such as a cell phone, as your account's primary phone number, please go to www.nationalgrid.com/myaccount to update your information so that we may be able to reach you with important information during

Gas Usage History

Month	Therms	Month	Therms
Jul 16	00	Feb 17	75
Aug 16	00	Mar 17	46
Sep 16	01	Apr 17	50
Oct 16	00	May 17	09
Nov 16	12	Jun 17	04
Dec 16	48	Jul 17	00
Jan 17	62		

Focus: How many voters cannot be identified by their data?

- 30.7% of 2016 votes in Rhode Island were cast by voters with no identifying information in voter registration database
 - Impossible for State to maintain these voters
 - At least RI's Voter ID law requires positive ID to vote
- ❖ **It is vitally important to know how many voters in each state cannot be identified by their data**



Conclusion: Sample results indicate significant issues

- Data is not standardized between state
- Poor data quality in some states
- Lack of transparency – data not available from some states
- Indicators of potentially fraudulent votes
- Ineffective oversight in some states
- Lack of mechanism to enforce federal election integrity

Recommendation: More analysis is needed

- Analyze the other 29 states for duplicate voting
- Look for duplicate voting in federal primaries
- Determine votes made from non-residential addresses
- Analyze potentially fraudulent votes by registration type
- Use federal databases to help determine eligibility to vote

Most importantly

- Our elections infrastructure is susceptible to hacking
- Most of the USA's 3,000+ counties are responsible for their own elections infrastructure
- Voting machines have been proven readily hacked
- State and county responses are not commensurate with the seriousness of this problem which impacts local, state and federal elections

Summary

- Analysis indicates a high likelihood voter fraud. There is likely much more to be found
- Results are verifiable and re-creatable
- A comprehensive, data-driven understanding of our country's voting integrity does not exist
- This is a not a red issue or a blue issue