Mail-in Ballot Counting Was Manipulated In Pima County, Arizona

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Mail-in ballots arrive at the counting center randomly from all 249 precincts[1] in Pima County, Arizona, are stored, and then are later counted. For the November 3, 2020, election 526,319 ballot records are listed in the "2020 General Election Post Election CVR (Cast Vote Record) Aggregate" file, with CVR sequence numbers 1 through 526,332. (Thirteen of those numbers do not appear, confirming that the total number of Cast Vote Records is 526,319, which equals 526,332 minus 13.)

Although early mail-in ballots arrive randomly, on election day ballots do not arrive at random, but are counted in precinct batches. Thus, by looking to see where in the CVR file consecutive ballots are all from the same precinct, we can determine the point at which election day counting began. The first batch of ballots with consecutive precinct numbers starts with CVR# 413,241 for precinct 208, so the mail-in ballots which arrived prior to election day are CVR# 1 through 413,239 (since CVR# 463,240 is one of the 13 missing numbers).
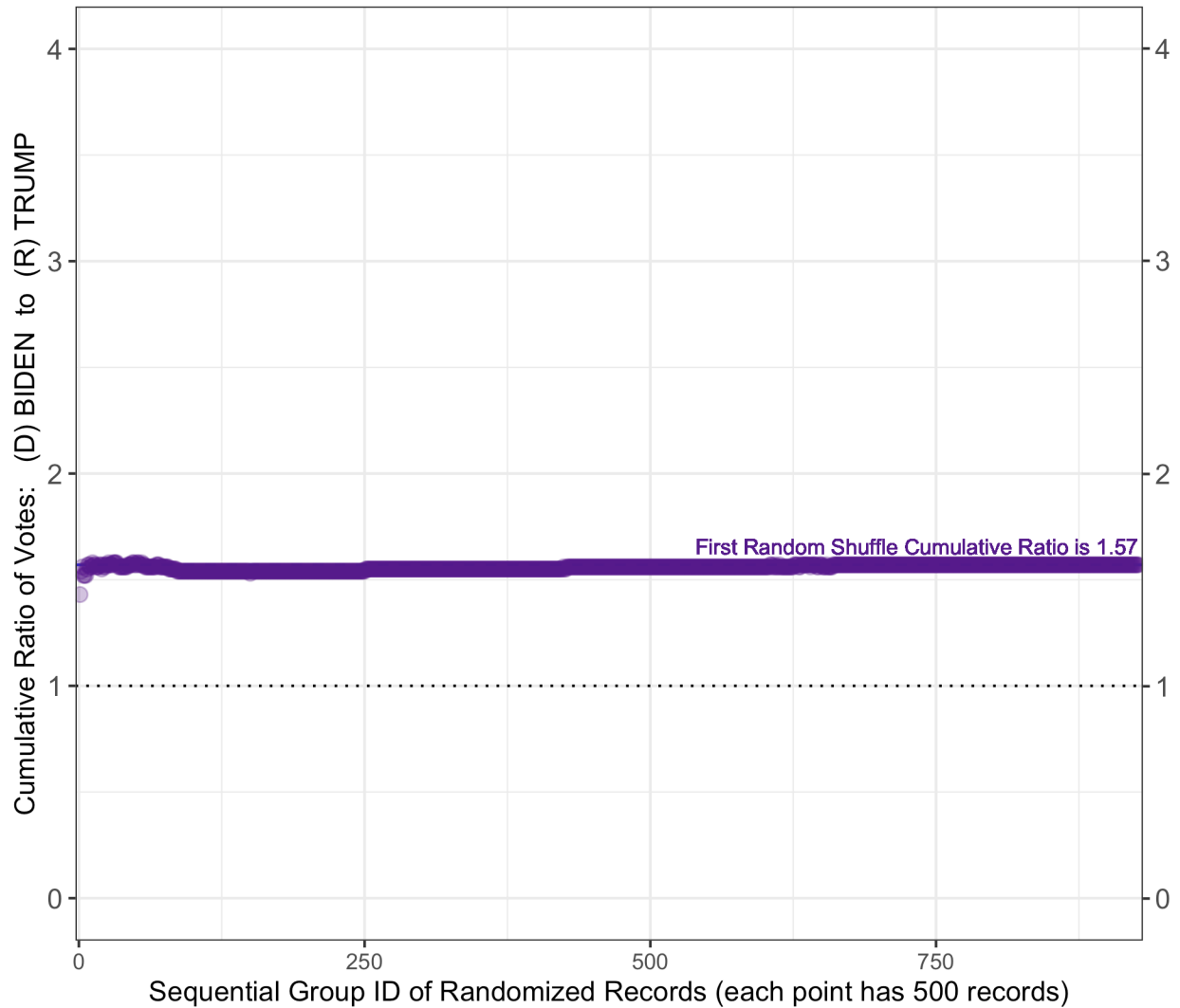
To reiterate, early voters' ballots are mailed from all over the county (and indeed from wherever in the world the early voters deposited their ballots into the postal system) in no particular order, they take varying paths through the postal system, and they finally arrive at the counting center *in random order*. That means that for CVR# 1 through 413,239 there should be ***no pattern*** as to the candidates voted for, and furthermore, since the ballots arrived randomly, they could be shuffled and recounted to reach the same result.

Below is a graph of CVR# 1 through 413,239 shuffled and counted, with the cumulative Biden/cumulative Trump ratio in purple. After the initial fluctuations due to the small number of votes counted at first, the graph is essentially flat (as expected for randomly-arriving ballots) at 157% Biden/Trump. This corresponds to Biden at 60% of the total and Trump at 38% (ignoring the small number of third-party, write-in, or undervotes), and 60/38 = 157%.

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[1] Technically, the "precinct number" 1 to 249 in the CVR file is a *voting district* which is determined by actual precinct, U. S. House district, state Senate district, Board of Supervisors district, school district, etc.; each voting district requires a unique ballot. However, following common usage, we will also call these voting districts "precincts".
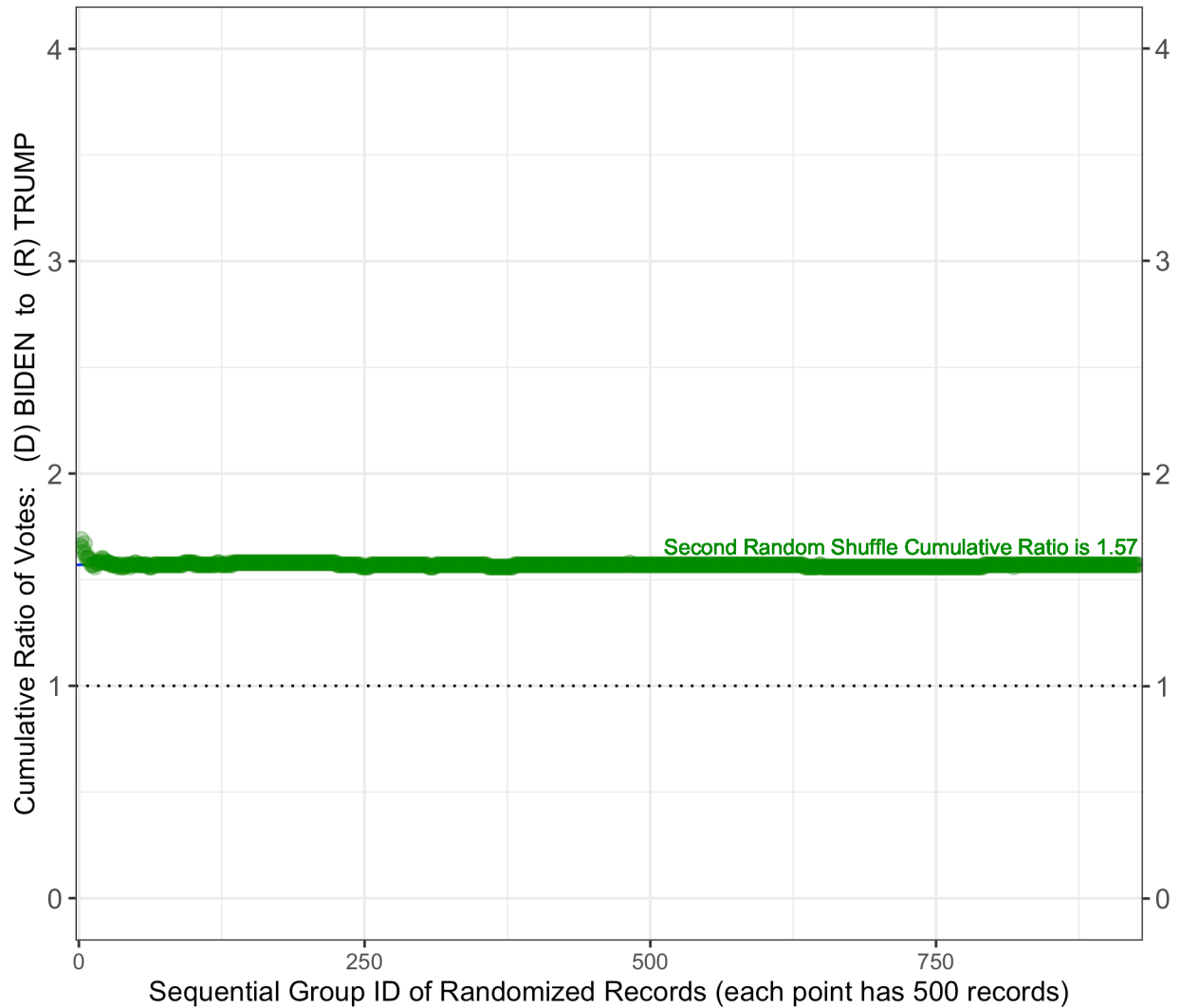
Cumulative Ratio of Votes: (D) BIDEN -to- (R) TRUMP
Contest: PRESIDENTIAL ELECTORS
for ALL Cast Vote Records before Election Day -- Random Shuffle 1
PIMA County 2020 -- Democrat = 60% Republican = 38% Ratio is 1.57

First Random Shuffle Cumulative Ratio is 1.57

Cumulative Ratio of Votes: (D) BIDEN to (R) TRUMP

Sequential Group ID of Randomized Records (each point has 500 records)

Key observation: After the initial fluctuations due to the small number of votes counted at first, there is ***no pattern*** in the rest of the graph. In particular, it is essentially flat (as expected for randomly-arriving ballots). This has to be the case, since the order of the ballots is randomly shuffled.

To confirm this, CVR# 1 through 413,239 were shuffled again and counted, and the cumulative Biden/cumulative Trump ratio plotted as "Random 2" in green below:

Cumulative Ratio of Votes: (D) BIDEN -to- (R) TRUMP
Contest: PRESIDENTIAL ELECTORS
for ALL Cast Vote Records before Election Day -- Random Shuffle 2

PIMA County 2020 -- Democrat = 60% Republican = 38% Ratio is 1.57

Note that again, after the initial fluctuations due to the small number of votes counted at first, the second shuffled count graph is also essentially flat (as expected for randomly-arriving ballots).

Now that we have shown what randomly-arriving vote counts must look like, below is the graph of the reported cumulative Biden/Trump ratio for CVR# 1 through 413,239 in red:

Cumulative Ratio of Votes: (D) BIDEN -to- (R) TRUMP
Contest: PRESIDENTIAL ELECTORS
for ALL Cast Vote Records before Election Day -- in Recorded Order
PIMA County 2020 -- Final Ratio is 1.57
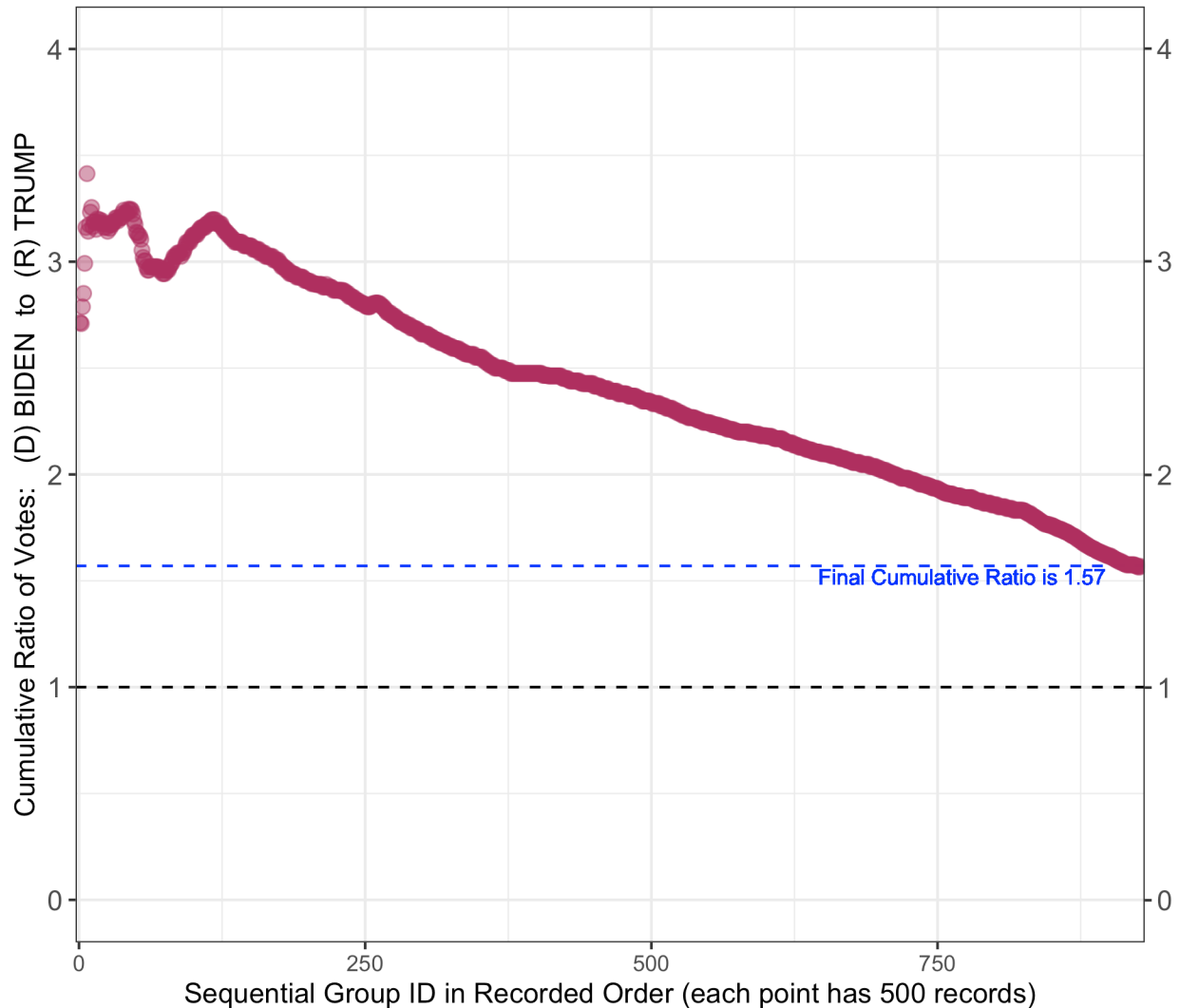
Not only is the red graph not essentially flat (as expected for randomly-arriving ballots), there is a huge and systematic decline in the cumulative Biden/Trump ratio overall as counting progresses, from over 300% down to 157%. Notice also the interesting twin-peak pattern which is not random. In other words, the early mail-in votes, which should be random, are reported with the first chunk of ballots being 75% for Biden, the next chunk of ballots being 70% for Biden, the next chunk of ballots being 65% for Biden, and so on, systematically declining all the way to election day.

This is not mathematically possible for randomly-arriving mail-in ballots, and is clear evidence that mail-in ballot counting was manipulated.

Further investigation shows ***almost exactly*** the same manipulation for ***almost all*** other down-ballot contests in Pima County as for the presidential race. In the attached file "PIMA_AllContestsbySeqGroup_v4_2021-12-12.pdf" the Democrat candidate in each race is graphed with blue dots, the Republican in red, and the cumulative Democrat/Republican ratio in black. Note that the early mail-in ballots discussed above are the left part of each graph before election day, that is, CVR# 1 through 413,239.

For example, page 51 of the attached file shows that in the race for County Recorder, the cumulative Democrat/Republican ratio up to election day, which should have been essentially flat, shows the same huge and systematic decline in exactly the same pattern as the presidential contest, from over 300% down to less than 150%.

Not only is this progressive decline mathematically impossible for randomly-arriving mail-in ballots, it is also impossible that the ratios are the same as for the presidential race, given that down-ballot voting response is lower for legal citizens and not available at all for the non-citizens who voted in Pima County on their "Federal Races Only" ballots.

In conclusion, mail-in ballot counting was manipulated in Pima County, Arizona, by recording ballots in a mathematically impossible order which created a progressively declining Democrat/Republican ratio for almost all races.