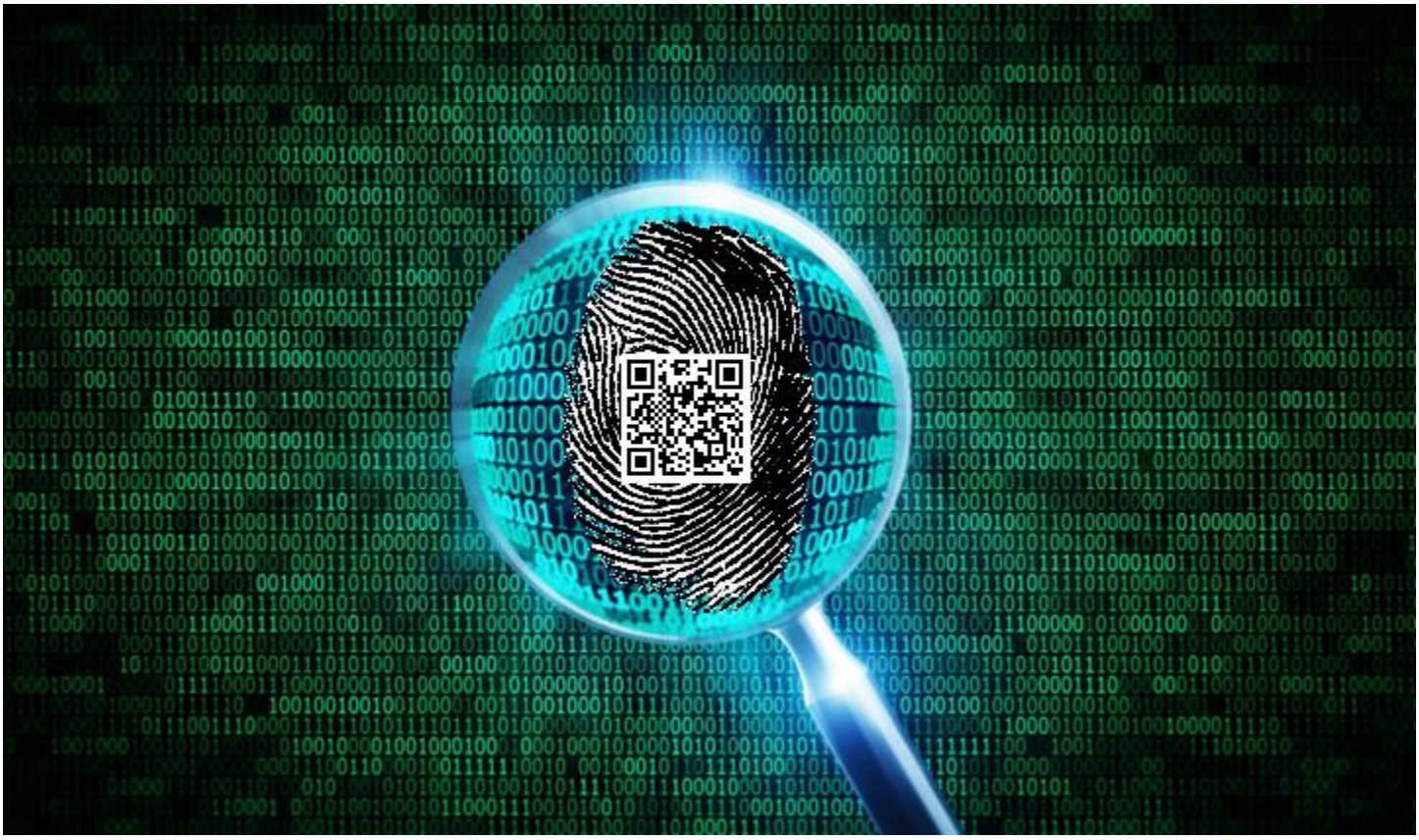
THE FINGERPRINTS OF FRAUD

EVIDENCE AND ANALYSIS OF A MULTI-STATE CONSPIRACY

TO DEFRAUD THE 2020 GENERAL ELECTION



VOLUME ONE

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EXECUTIVE SUMMARY

The General election of 2020 was perhaps the most contentious election in our country's history. It was certainly the most contested and displayed the most concerning irregularities. Since the election, many researchers, election experts, and concerned citizens have performed an unprecedented evaluation of the election procedures and data. Many have found hard evidence of manipulation and fraud at the state, county, and local levels. To date, the judicial systems of those locales have been unwilling or unable to give a fair hearing to the findings, leaving our country in a divided condition where a majority of the population no longer trusts the election system.

As a computer and data expert with 40 years of professional experience, I began examining available data in December 2020. In August 2021, I performed a forensic evaluation of the Mesa County, Colorado election system. The findings of this evaluation can be found in *Mesa County Report #3*[1]. That report, and my subsequent research, showed evidence of ballot and vote manipulation by the county's Dominion Voting Systems election software in both the 2020 General and 2021 Municipal Elections. These findings included an observation of unnatural voting patterns in the county's Cast Vote Record that coincided with my originally discovered internal database manipulation. That spurred me to examine other counties. From that time, I have encountered hundreds of counties spanning the nation, utilizing all major computerized election software vendors, that display shockingly similar and unnatural patterns to what was observed and documented in Mesa County.

Based upon these and other findings, which will be detailed in this report, it is my expert opinion that the United States of America was the victim of a coordinated multi-state conspiracy to defraud the 2020 General Election.

Please note that while the 2020 Presidential race in Mesa County, CO is used in the below examples and discussion, the same unnatural voting patterns are observed in statewide and local races across the country. The manipulation can be shown to affect candidates from either political party. The patterns of manipulation appear in the recent primary contest and the 2022 midterms. This report will focus on coordinated manipulation in the 2020 Presidential race, documenting a pattern of evidence from counties across many states.

CAST VOTE RECORDS – DEFINITION

Within the system software of most election machine vendors exist several tools designed to assist with post-election auditing. A Cast Vote Record is, in its simplest form, a text list of all ballots received in an election. Most of the time, the list is in the order that the ballots were processed by the Election Management Server. The ballots are listed sequentially as they were scanned during counting to create an auditable record of each individual voting transaction as it occurred, allowing the "replay" of any race vote by vote. They contain, at a minimum, the specific candidates or races which were counted, and the selections chosen by a voter. These Cast Vote Records are produced in four basic types:

- **Simple text file(s)**
  The vendors Dominion Voting Systems, Clear Ballot, and Election Systems & Software can produce a Cast Vote Record in one or several text CSV (Comma Separated Variable length) files, which contain the records of one ballot per line. This file is sometimes converted to an Excel Spreadsheet format for transmission to the public.

- **JSON files**
  Dominion Voting Systems can also produce a Cast Vote Record in a group of JSON (JavaScript Object Notation) files. Separate files define the various pieces of data which need to be combined and correlated to produce the distinct ballot records.

- **XML files**
  Hart Intercivic can produce Cast Vote Records in XML (Extensible Markup Language) format, which is a format similar to the code markup used in HTML files. Each file contains the information for one ballot.

- **PDF file**
  Hart Intercivic can also produce Cast Vote Records in one large PDF (Portable Document Format) file. This file contains a human-readable report where each ballot is its own page (or multiple pages, for ballots with a high number of races).

[1] https://votedatabase.com/MesaCountyReport3.pdf

The following is an example of a Dominion Voting Systems csv format Cast Vote Record file. In the actual file, additional candidates and races would continue to the right and additional ballots would be listed below, in their sequential order as they were tabulated.

2020 Mesa C	5.11.3.1									
								Presidential Electors (Vote For=1)	Presidential Electors (Vote For=1)	Presidential Electors (Vote For=1)
								Joseph R. Biden / Kamala D. Harris	Donald J. Trump / Michael R. Pence	Don Blankenship / William Mohr
CvrNumber	TabulatorNum	BatchId	RecordId	ImprintedId	CountingGroup	PrecinctPortion	BallotType			
1	10	4001	83	10-4001-83	Mail	3075539052 - GJ (3075539052 - 5)	5	1	0	0
2	10	4001	82	10-4001-82	Mail	3075439020 (3075439020)	9	1	0	0
3	10	4001	81	10-4001-81	Mail	3075439015 (3075439015)	9	1	0	0
4	10	4001	75	10-4001-75	Mail	3075439017 (3075439017)	9	1	0	0
5	10	4001	74	10-4001-74	Mail	3075439015 (3075439015)	9	1	0	0
6	10	4001	47	10-4001-47	Mail	3075539055 (3075539055)	5	1	0	0
7	10	4001	46	10-4001-46	Mail	3075539033 - GJRFR1 (3075539033 - 4)	4	1	0	0
8	10	4001	35	10-4001-35	Mail	3075539039 - 5 (3075539039 - 5)	5	0	1	0
9	10	4001	34	10-4001-34	Mail	3075539045 (3075539045)	5	0	1	0
10	10	4001	23	10-4001-23	Mail	3075539047 (3075539047)	5	1	0	0
11	10	4001	10	10-4001-10	Mail	3075439015 (3075439015)	9	1	0	0
12	10	4001	2	10-4001-2	Mail	3075439020 (3075439020)	9	1	0	0
13	10	4001	92	10-4001-92	Mail	3075439017 (3075439017)	9	1	0	0
14	10	4001	45	10-4001-45	Mail	3075439014 - CRWC (3075439014 - 9)	9	0	1	0

It should be noted that none of these fields, nor any other found in a Cast Vote Record, in any way identifies the identity of a ballot's voter. Out of an overabundance of caution, some counties redact extremely small precincts (with 5 or 10 voters) from the Cast Vote Record in the fear that if all voters voted the same way, the secrecy of their vote might be compromised.

No records supplied in any Cast Vote Record of any type disclose the identity of the voter.

CAST VOTE RECORDS – ACQUISITION

The need for Cast Vote Records for the 2020 Election was spread through numerous channels. Many citizens requested these documents using their state's Freedom of Information Act (FOIA) guidelines, and then sent them to me for processing. All Cast Vote Records included in this analysis were obtained through these valid public records requests.

Public records requests for Cast Vote Records were made to nearly all counties in all states.

- **27** states, Alaska, Arizona, Arkansas, California, Colorado, Delaware, The District of Columbia, Florida, Georgia, Idaho, Illinois, Iowa, Kentucky, Maryland, Michigan, Minnesota, Nevada, New Jersey, New Mexico, Ohio, Oregon, Pennsylvania, Rhode Island, Tennessee, Texas, Vermont, West Virginia, and Wisconsin had at least one responsive county.

- **23** states, Alabama, Connecticut, Hawaii, Indiana, Kansas, Louisiana, Maine, Massachusetts, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New York, North Carolina, North Dakota, Oklahoma, South Carolina, South Dakota, Utah, Virginia, Washington, and Wyoming had no responsive counties. In most of these cases, investigation found that the state's election apparatus prevented the counties from complying with the public's request for election data.

- Given the findings in this report, state and county resistance to providing their Cast Vote Records is inexcusable.

CAST VOTE RECORDS – DATA NORMALIZATION

I developed software to convert the many combinations of Cast Vote Record types into a common database format for analysis. Specific analysis, which contains additional information from what is contained within this report, can be accessed on my website[2]. The raw Cast Vote Record files used for analysis can also be found on my site[3].

ANALYSIS METHODOLOGY – RANDOMNESS ASSUMPTION

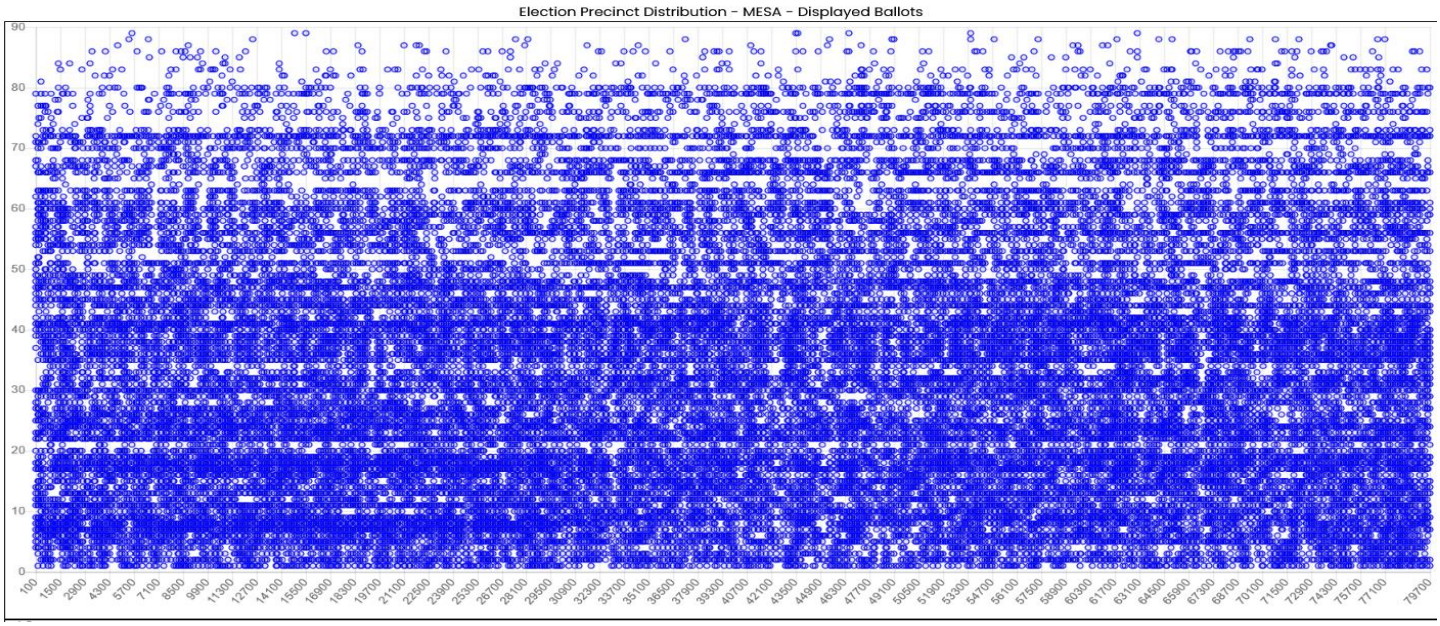
The unnatural yet similar voting patterns were identified by examining the mail-in (absentee) ballots. Because of the pandemic, many states and counties expanded mail-in voting to unprecedented levels. From what can be determined by the data analysis presented here, these types of votes were used as a critical attack vector on the election.

To fairly judge a county's Cast Vote Record mail-in results, I first test the results to see if they meet the randomness assumption. The assumption is that mail-in ballot results contained in the Cast Vote Records are randomized by the processing of the ballots themselves. As mail-in ballots are randomly requested, randomly sent out, randomly filled out, randomly returned or delivered by the voter, and not presorted by the county upon receipt, they become naturally shuffled and mixed. While many county clerks

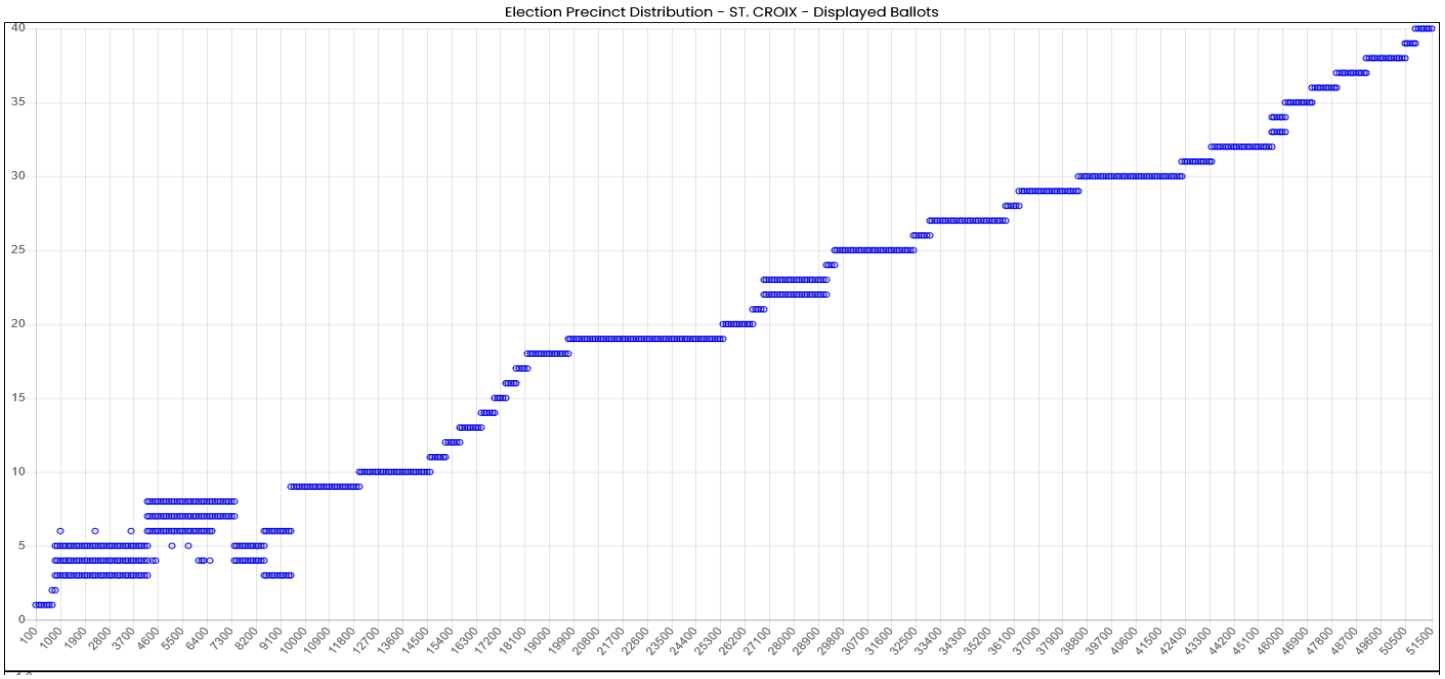
[2] https://VoteDatabase.com
[3] https://VoteDatabase.com/cvr

confirmed the mail-in ballots were mixed prior to scanning, the primary methodology for determining this was to examine the Cast Vote Record's precinct distribution of the mail-in ballot records. If batches of ballots reported by the Cast Vote Records (normally 100 ballots in a batch) contain a random sampling of precincts and do not show runs of ballots from the same precincts, the mail-in ballots are considered sufficiently randomized to be expected to produce a random pattern of voting.

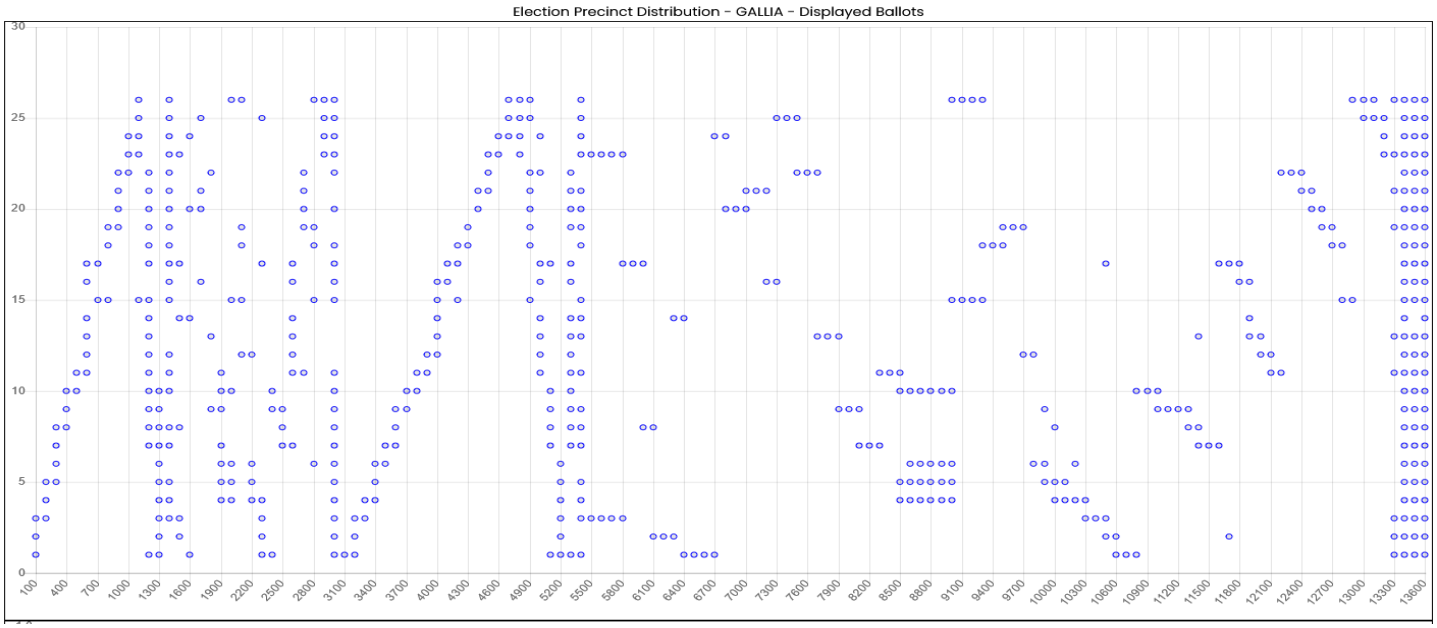
An example of a county which showed a sufficiently random pattern in its mail-in ballots is Mesa County, Colorado. Separate precincts are represented on the vertical axis, with 100 count blocks of votes along the horizontal axis.



It can be seen that the precinct distribution of each 100-ballot block shows a random, non-predictable distribution. Compare this with St. Croix County, Wisconsin, whose mail-in ballots were sorted by precinct.



Gallia County, Ohio shows a different manner of precinct-sorted records.



The precinct sorting is obvious, and thus this Cast Vote Record is not going to show a random pattern in its mail-in (or any other type of) ballots.

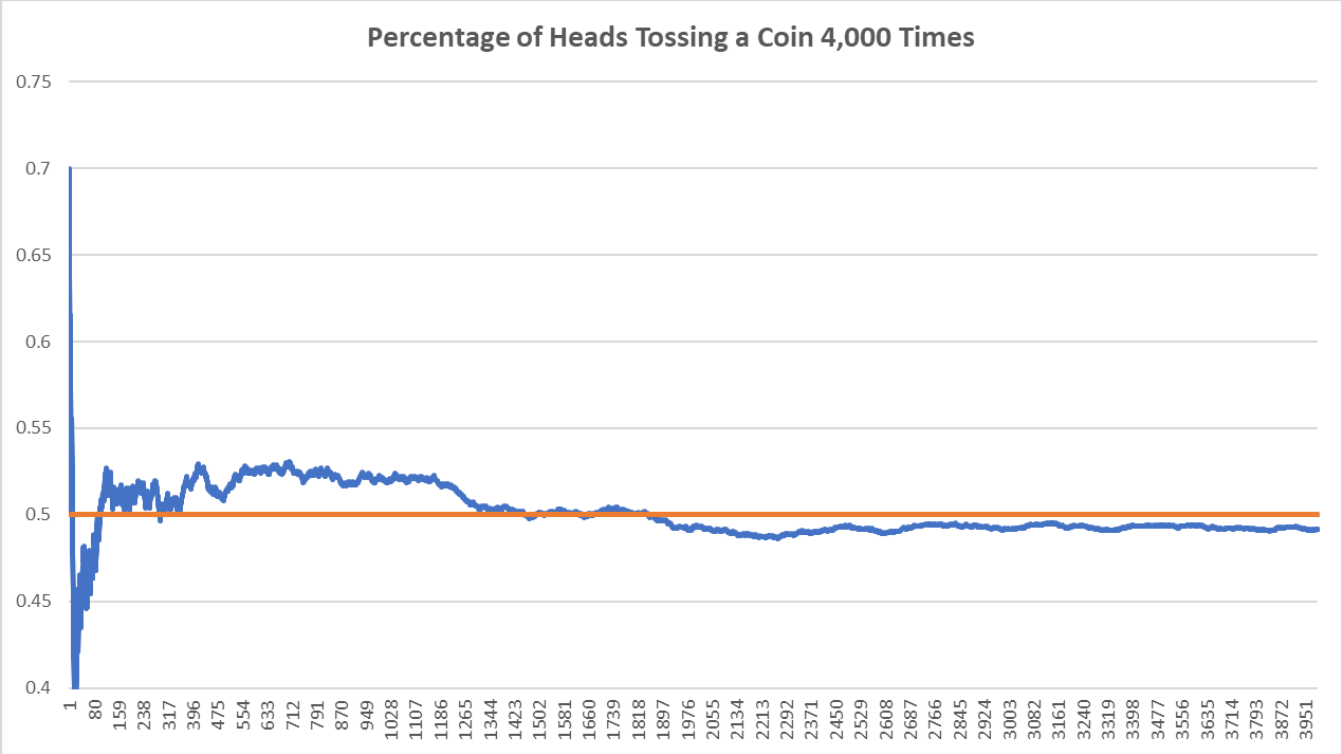
Counties that do not show randomness are not further tested for the unnatural patterns seen elsewhere. As a side note, examining the individual precinct results in these counties often shows unnatural patterning of their mail-in votes, but very few precincts are large enough to provide statistical confidence. Several that are of sufficient size will be referenced in the state detail reports.

ANALYSIS METHODOLOGY - RANDOMIZED RESULT PREMISE

Having sufficiently established the randomness in each sample studied, it can be expected that the percentages of a candidate's votes should behave similarly to a coin flip (but headed to a different final percentage rather than 50%).

The chart below shows the variations of a coin flip experiment, where a coin is flipped 4,000 times and the cumulative percentage of times it landed on "heads" is calculated and displayed horizontally. The variation in the percentage – the highest and lowest it achieves – decreases as the flips increase. Each additional flip has a lesser effect on the cumulative whole. The third flip can potentially move the percentage by 0.33 in either direction. The thousandth flip can move the percentage by just 0.001 in either direction.

Looking at this chart of coin flips, following along the plotted line, we see wide swings initially, decreasing over time, until a fairly smooth horizontal trajectory is settled upon **(**very much like a statistically reliable sample in an opinion poll**).** Once 1,500 to 2,000 coin flips have been recorded, only an artificial injection of nonrandomized coin flips could cause our plotted line to deviate from its mathematically firm trajectory towards the eventual 0.5 (50%). The same mathematics apply to plotting a candidate's percentage of votes in a sufficiently randomized set of ballots.



As an example below is the percentage plot of Trump's mail-in vote in a county that shows no obvious signs of manipulation.

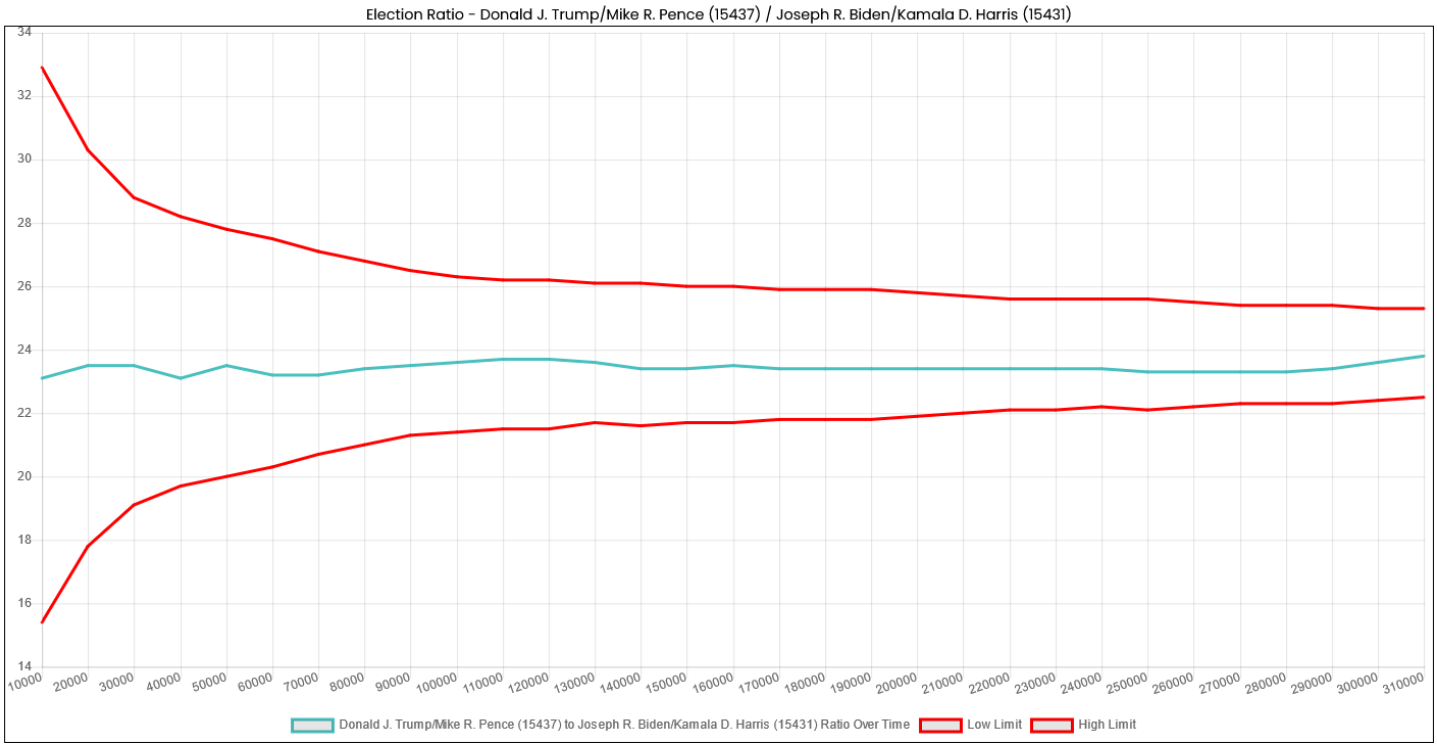
ANALYSIS METHODOLOGY - RANDOMIZED ELECTION TRIALS

To determine what maximum and minimum values could be expected at any particular number of ballots, I ran a simulation of 100,000 random elections of 500,000 ballots each and recorded the highest and lowest values observed at all of the ballot counts. Then, to allow for unexpected fluctuations, the resulting ranges were widened by 10% in each direction. This process creates a visual cone which, when plotted, is not dissimilar to the cone of probability used by meteorologists when tracking hurricanes. Here the cone narrows to the candidate's final percentage. The borders of the cone establish the mathematically possible points of origin to reach our known result. This cone of probability will be shown below in red, adjusted to finish at the known value of the candidate's final percentage of votes received in any race investigated.

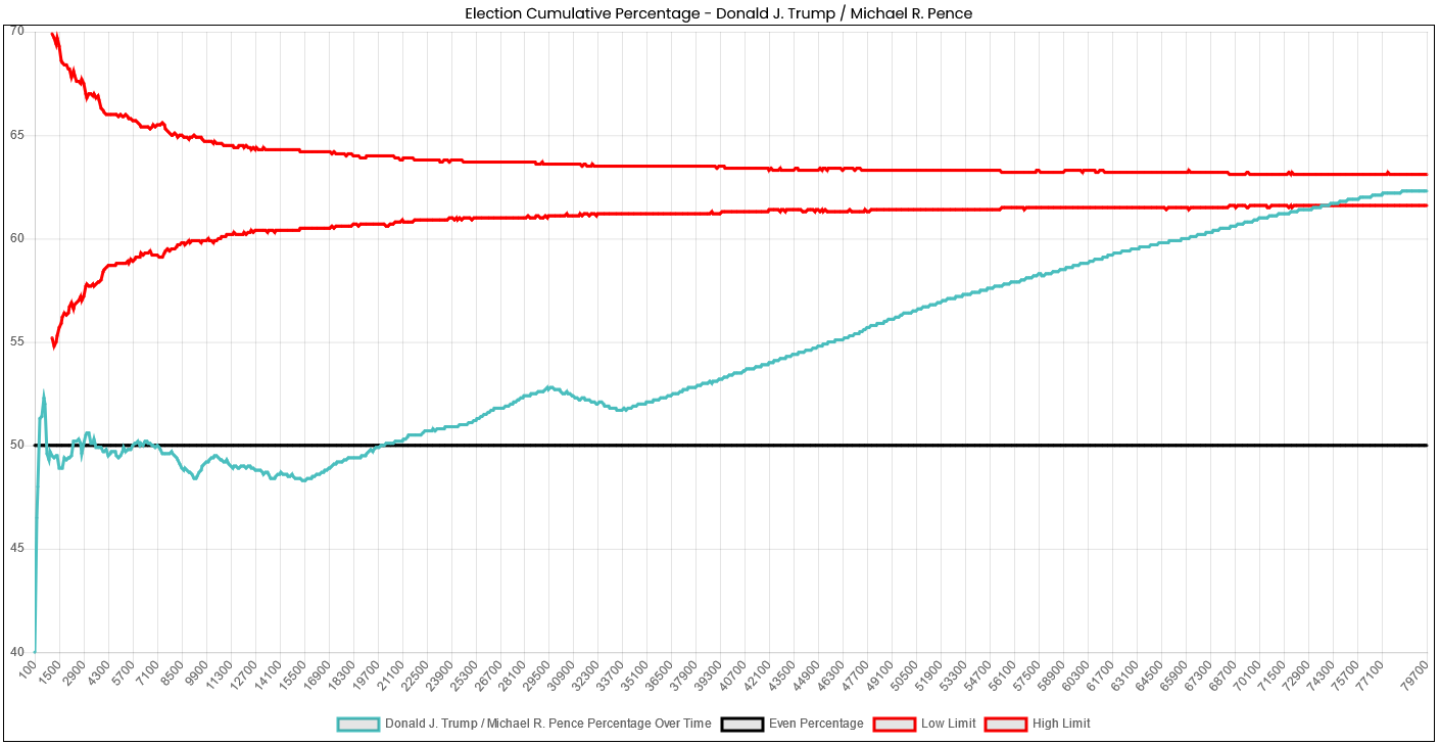
ANALYSIS METHODOLOGY – PLOTTING THE CANDIDATE'S PERCENTAGE OF VOTES RECEIVED

Next, I plotted the cumulative percentage of actual votes received by a candidate in blue. Just like the line in our coin flip experiment, the randomized mail-in ballots should produce a horizontal plot with wide initial swings that tighten to a firm, increasingly straight, horizontal line. Once the red cone of probability is adjusted to match the percentage point at the finish, the blue line should always remain inside the cone. If the percentage of a candidate's votes falls outside of the range of the red cone, it is an anomaly and indicates a non-organic vote pattern. If the percentage plot falls *above* the cone, it indicates that the candidate has received more votes than can possibly be expected at that vote count. If the percentage plot falls *below* the red cone, it indicates that the candidate has received less votes than can possibly be expected at that vote count.

As an example, below is the percentage plot of President Trump's mail-in votes in Mesa County, Colorado during the 2020 General Election.



In contrast, here is what the corresponding graph looks like for Mesa County, Colorado.



In these plots, President Trump's percentage of the vote is in blue, while the expected maximum and minimum percentages expected at any point to achieve his official result are shown by the red cone. The black line indicates the 50% point, at which both candidates would be tied.

In Mesa County, the percentage plot line in blue is severely below the red cone throughout nearly all of the counting, only "catching up" at the end. The pattern defies all mathematics for how the plotted line of cumulative votes should behave, knowing the mail-in

vote sample was randomized. The pattern is alarmingly outside of the minimums and maximums established by having run the 100,000 different randomized elections described above. This is indicator #1 of fraud in the county. I call the pattern observed above the "Mesa Pattern", as this is where I first encountered it.

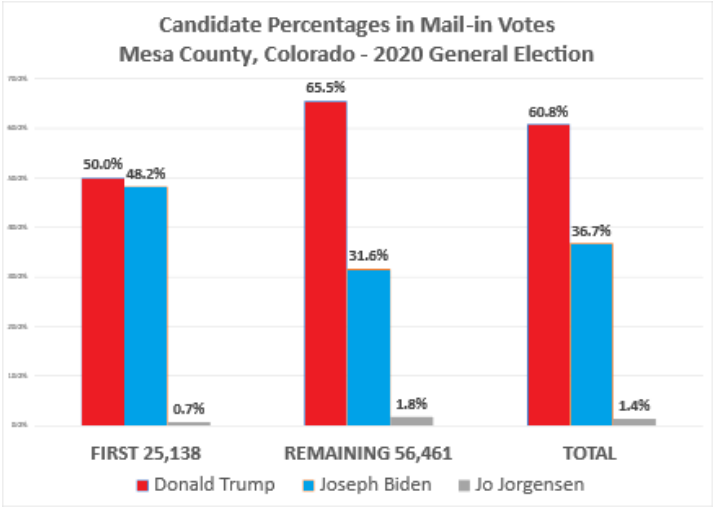
(*Mesa County Report #3, referenced above, details that about a quarter of the initial ballots were either secretly reprocessed inside the computer software into a second database or left behind in the initial database, which was then hidden from view from the clerks. This matches up well with what is seen here – there were just too many Biden votes at the beginning to possibly justify the results at the end, causing the percentage plot of Trump's votes to fall well below the expected minimum values.****)***

ANALYSIS METHODOLOGY – ISOLATING THE "FRONT-END LOAD"

Further analysis of the candidate's percentage of votes received, represented above by the line in blue, reveals the manipulation more precisely. What is shown in the plot is an election where the earliest votes tabulated were grossly and artificially manipulated to support Biden, placed in or flipped as a front-end load to offset or outweigh the more natural Trump votes that would follow. Dividing the distinct portions of the graph into their obvious segments and comparing those percentages against the actual county's voting history, brings the evidence forward more clearly.

Mesa County is "deep red", having voted for the Republican candidate with an average of 65% from 2004 through the 2016 election. When third party votes are disregarded, and only the two major party totals are considered, that average increases to over 67%.

In *Mesa County Report #3* I showed hard evidence of manipulation of the first 25,138 votes. This portion of the 81,599 total mail-in votes recorded represents approximately 31%. The first 31% segment is graphically visible by the shift in direction we see in the plotted blue line. I then calculated the percentage support for both segments. Results are shown below.



How, in a randomized sample, could the first 31% of ballots be so drastically different than those remaining? Not only does this initial front-end load of ballots deviate from the minimums and maximums I established having run 100,000 trial elections, but they also deviate from what we know about the county's actual voting history. The effect of this front-end load decreased Trump's total support in the mail-in ballots by almost 5%, and inflated Biden's total support by the same amount – a nearly 10 percentage point swing in the mail-in vote percentages.

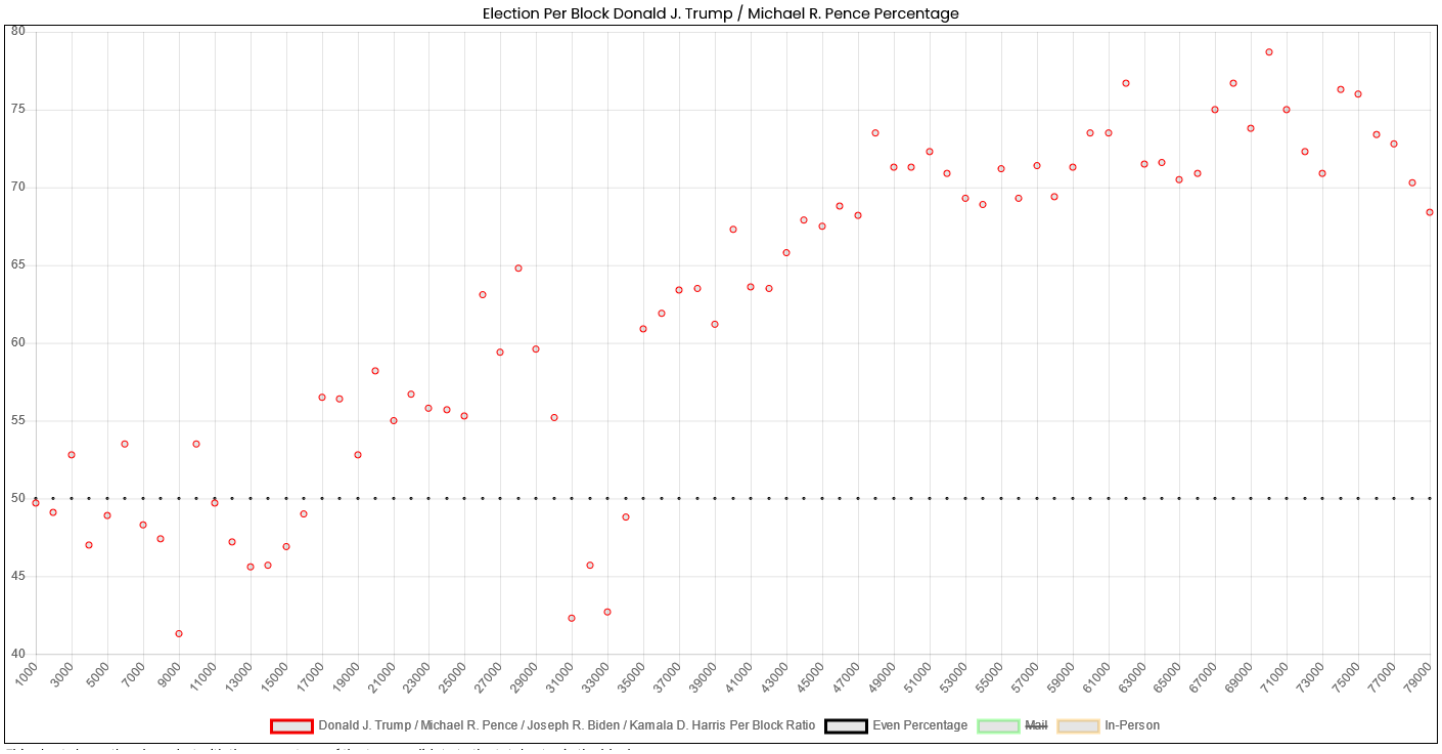
When this is done in all the counties across an entire state, that state's electoral votes are completely controlled. Votes are manipulated in a coordinated and targeted fashion to not be noticed by the general public in their local communities. The manipulated results are "close" to what the public expected, but the cumulative effect of shaving away a candidate's county support alters the state's total outcome. Audits would be unlikely here. If audits were requested or demanded, they would be (and were) legally challenged. Audits would be said to be "too expensive for the county" or unnecessary since they "most likely wouldn't change the candidate's individual outcome" in that county. In the unlikely event of a serious audit of a county being achieved, enough time will have passed to allow nefarious actors to alter records so that they match the reported results. Real audits could also help identify potential counterfeit or illegal ballots. Some areas may have enough of these to not require extensive computer manipulation. A matching count alone does not prove there was a safe election.

Counts taken directly from the Mesa County, Colorado election management server databases confirm what is seen in the county's Cast Vote Record when plotted graphically. Of critical importance is that the Cast Vote Record, instead of showing an abrupt change

in the voting pattern after the manipulation, shows a generally smoothed rise indicative of a controller algorithm. This leads me to conclude that the algorithm is spreading the fraudulent votes throughout the counting in order to smooth the resulting curve and escape simple detection methods.

ANALYSIS METHODOLOGY – BLOCK CHART VISUALIZATION

To view the manipulation another way, I plotted a candidate's vote percentage in blocks normally of 100 ballots. Each red circle indicates that percentage of the votes in only that sequential block of ballots. The following is that plot for President Trump's votes in Mesa County, Colorado. 1,000 ballot blocks were used for clarity.



This chart shows something remarkable – the percentage of President's votes generally "walks up" as the counting proceeds. Note that after approximately 34,000 ballots are processed, there are *no* blocks of ballots in which President Trump had less than about 50%, while before that there were 17.

If the ballots were organized by the county personnel in some fashion and were not randomly mixed - to create this gradual climb they would have to blend in the Trump support in an increasing fashion. Batch by batch, regardless of precinct, they would need to slightly increase Trump's support as they tabulated. Then, in counties across the country, this same process would have to be repeated. The idea that this could happen manually is ridiculous.

This upward patterning, which is seen in almost all counties showing the Mesa Pattern, confirms, in my opinion, that the votes are being manipulated by a computer algorithm/controller. Only by moving votes around formulaically could this sort of pattern be achieved.

Unfortunately for those wanting to explain this away as simply showing late breaking Trump support, or as a gradual shift in voter preference over the mail-in period, this report will show counties where the Mesa Pattern is also seen in reverse (where an initial Trump lead gradually moves towards Biden). I have working theories as to the reasons for this, but suffice it to say, the Mesa Pattern is not a naturally occurring behavioral phenomenon. Some counties show patterns similar to the "coin flip" example, so why the voters in those counties did not conform to the other voters would also need to be explained.

You will, of course, note the odd break in the upward pattern starting at about ballot 31,000. Variations like this are fairly common, and in my opinion indicate a correction being made within the algorithm as it responds to unexpected "real world" votes. In a small number of counties, this rise is not as gradual, as if the algorithm had to do a hard shift instead of a smooth one – but the overall effect is the same.

ANALYSIS METHODOLOGY – MESA PATTERN CLASSIFICATION

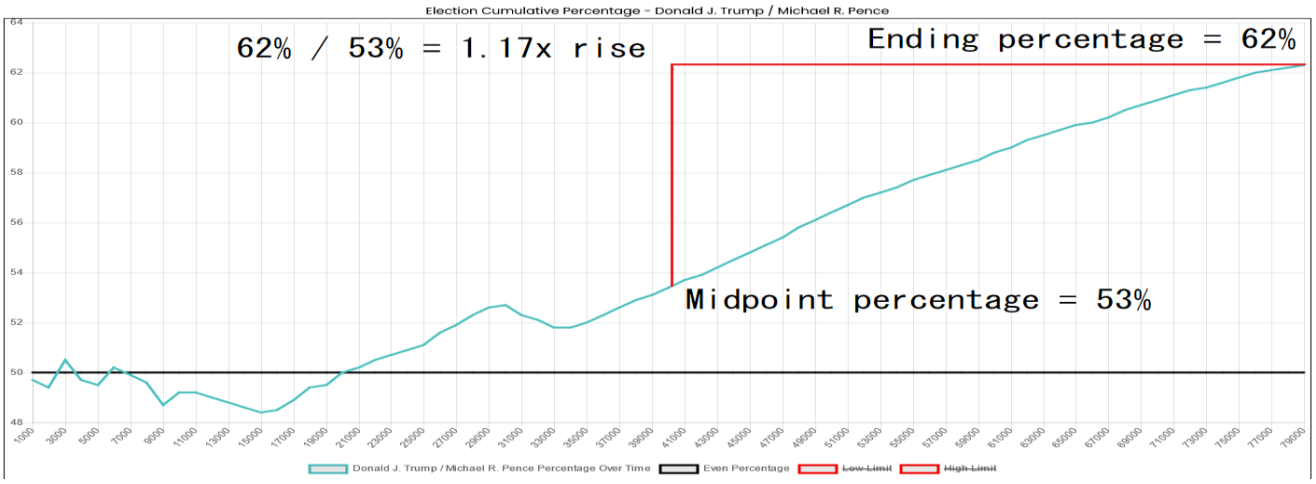
Further research into other Cast Vote Records enabled me to quantify the conditions necessary to classify a county's results as following the Mesa Pattern. Many counties conform to all four of these conditions.

1. Mail-in votes show randomization through analysis of the precinct distribution.
2. Candidate normally achieves his lowest percentage somewhere within the first third of the counting, and his percentage never falls below that again.
3. There is a general gradual rise visible in the percentage plot.
4. Plotting the candidate percentage of sequential blocks of ballots shows either a general smooth movement of the blocks, or a sudden change favoring the candidate in the second half of the sequence.

If the evidence described above was only observed in one county, or within one state, one could possibly discount it as an anomaly, or random fluke. Therefore, I proceeded to compare these results with other counties and other states, and even other election system vendors. I discovered that this exact same pattern occurs in many other counties in multiple states across the country.

ANALYSIS METHODOLOGY – PREDICTING ELECTION RESULTS

Further analysis showed another shocking similarity between the Mesa Pattern counties. I observed that the rise of President Trump's percentage seemed consistent, so I developed a simple metric to test that. I calculated President Trump's percentage at the very midpoint of the counting and divided that into the ending percentage. For Mesa County, Colorado, the result of that division was 1.17, which is saying that multiplying President Trump's midpoint percentage by 1.17 gave his ending percentage. The following demonstrates this calculation using Mesa County, Colorado's Cast Vote Record as an example.



Testing other counties showing the Mesa Pattern revealed that a great many of them had a rising value, which I call the "back half rise", that fell within 1.1 and 1.3 (Rounded). This is the 2nd indicator of fraud, and a very serious one.

The following is an example of this calculation, using the Mesa County Cast Vote Record.

Total Mail-in Votes for President Trump and Joseph Biden	79,798
Midpoint (79,798 / 2)	39,899
President Trump's percentage at midpoint 39,899 votes	53%
President Trump's percentage at end (79,798)	62%
Back Half Rise (63% / 53%)	1.17

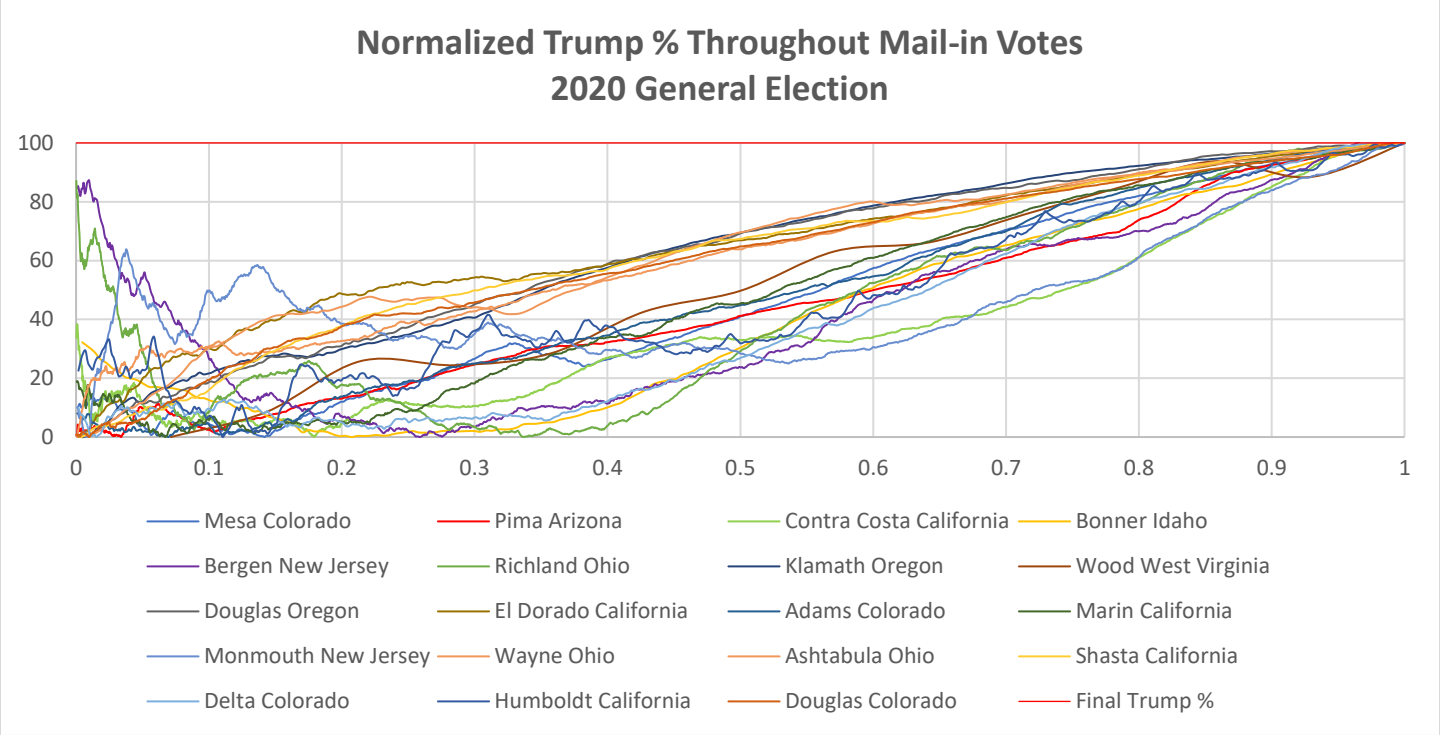
To emphasize the seriousness of this discovery, of the 159 counties from the nine states included in this volume, 128 (80.5%) show a back half rise of between 1.1 and 1.3 (rounded). 69 of the counties fall within 1.1 and 1.2, not rounded.

This indicates that the elections in these counties were ***predictive***. If one knew the Trump mail-in percentage and number of votes at the mid-point of the election, one could calculate the end result – both the percentage and the votes – to within a very small margin.

To have the belief that this is a natural voting pattern, one would have to believe that voters in different counties of all sizes and living in different states all showed impossibly similar voting pattern behaviors in how they requested, received, filled out, and submitted their mail-in ballots.

MESA PATTERN COUNTY COMPARISON

As a further example of the commonalities found between the various counties matching the Mesa Pattern, 18 counties were selected from all nine states covered by this report, and the percent of votes for President Trump at any point in the mail-in vote counting was normalized so they all fit within the same proportions on the same graph.



This graph illustrates some key concepts of the Mesa Pattern. Note that by the 0.4 mark (40% of the counting), all the counties have begun their ascent in favor of President Trump.

ADDITIONAL ANALYSIS RESOURCES

The detailed reports on each county that follow may also contain additional indicators from my research using other data from the 2020 election. Anomalies in the Election Night Reporting were recorded from the New York Times website and were supplied by Edison Research. Also used was the Help America Vote Act's HAVV registration system information pulled from the Social Security Administration.

REVIEW AND CONCLUSIONS

The Cast Vote Record produced by the various election systems' software is a tool for auditing any election. It is the digital equivalent of a sequential list of an election's ballots and their individual selections. Its purpose is to preserve each voting transaction so that the election outcome can be verified. Being in digital format offers the advantage of rapid computerized analysis. In a fair and legitimate election the analysis of randomized mail-in voting transactions would follow proven and reliable mathematical patterns. In the 2020 General Election the patterns of voting transactions do not. Cast Vote Records from across the United States show mathematically impossible voting patterns, that shockingly demonstrate a predictive and intentionally manufactured similarity. Any fair minded review of the election data can only leave one to conclude that the United States of America was the victim of a coordinated, multi-state, conspiracy to defraud the 2020 General Election.

It is not the goal of this report to state that the algorithm used to manipulate the election actually used the simple mathematical method of multiplying outlined above. Rather, the findings above represent a direct side-effect of a much more complex algorithm, the goal of which was to allow for a combination of fraudulent ballots and computerized alteration of votes to reach, as closely as possible, a desired outcome at a county and even precinct level. The focused and controlled manipulation may be done to diminish

or increase a candidate's totals to closely shave from or pad to the public's local expectation of performance, while collectively achieving the controller's statewide desired result. My research into the nationwide Cast Vote Records leads me to the conclusion that the attackers used sophisticated predictive analytics to determine how many fraudulent votes would be needed in each county and precinct to achieve that outcome. The algorithm would then serve two purposes – first to smooth out the impact of fraudulent ballots and secondly to intervene and alter authentic votes if the predicted number of fraudulent ballots was not sufficient due to unexpected results from organic voters.

This report uses only open source, publicly available data. These results can be and should be repeated by investigators and concerned citizens anywhere and everywhere. Because of federal and state election record retention laws many counties will now claim that their 2020 election records are lost or destroyed. Complete access to all of the Cast Vote Records utilized for this report and customized tools to perform your own analysis can be found on my website. But additional independent confirmation of these results is encouraged. Data from the 2022 Midterm elections is currently still retained by complying counties and can be obtained by Public Records Request. The Mesa Pattern exists in many counties I have observed. To aid in the rapid validation of the findings in this report, I invite you to begin your own exploration into the evidence of this conspiracy by starting your research of the 2022 Midterms Cast Vote Records.

Many other researchers and analysts have toiled mightily to unlock the secrets of the 2020 Election. I would like to especially recognize the work of Draza Smith, Dr. Walter C. Daugherity, Dr. Douglas Frank, Colonel Shawn Smith, and Captain Seth Keshel, whose findings and encouragement have been vital to my own efforts. I also want to thank the members of Raccoon Army, the finest group of patriots in existence.

I also thank Chuck Vaughn, Lynne Lippincott, Nancy O'Donnell, and Philip O'Donnell for their unwavering support and tireless efforts fighting for election integrity in general and helping with the editing of this report. I thank American hero Dennis Montgomery for his friendship, insight, and for giving me the chance to see all of this from the other side of the glass.

Lastly, a huge thank you goes to Mike Lindell, whose tireless, unselfish efforts in the fight for our freedoms are already the stuff of legend. His call for Cast Vote Record requests in 2022 was critical in obtaining the data needed to produce this report.

Jeffrey O'Donnell

Jeffrey O'Donnell
May 1st 2023

STATE AND COUNTY LEVEL DETAIL ANALYSIS DESCRIPTION

An analysis has been performed for all 159 counties in the 9 states included in this report. Altogether, the county Cast Vote Records contain 26,463,719 votes in the 2020 Presidential election.

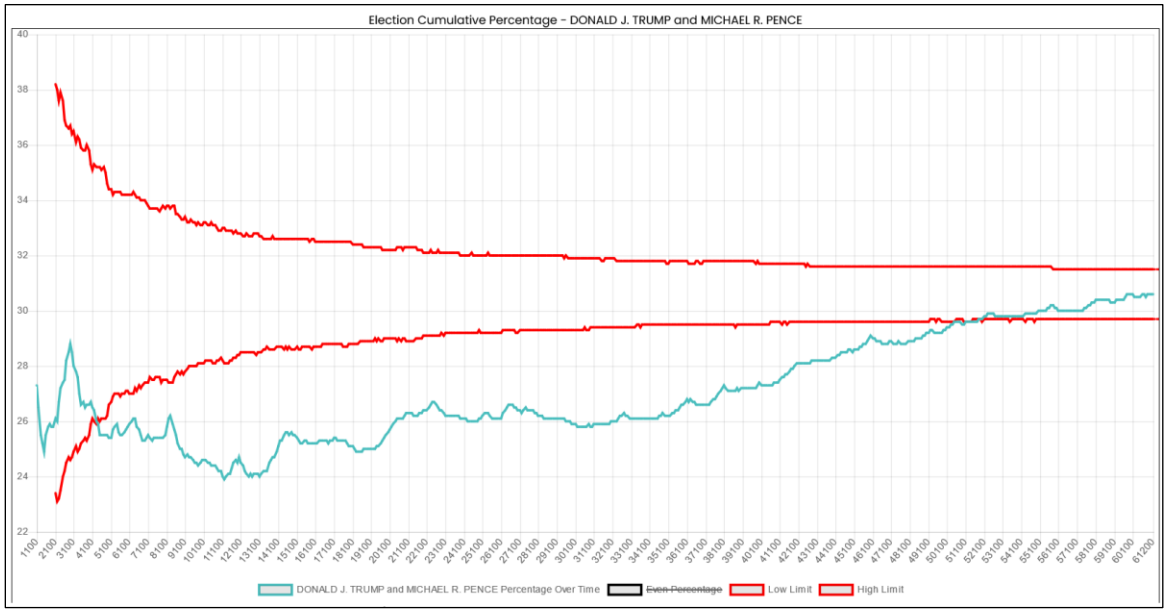
The following is a description of what each different part of the analysis indicates, using examples from various counties. Descriptions of items are in *italics*. Important findings are bolded. *The examples in this section are taken from different county analyses for descriptive purposes.*

Sample County
Vendor: Election Systems & Software
The County name and the Election Management System Vendor[4]

The official results report 38,762 ballots cast for president, and the Cast Vote Record report 38,762. Thus, no ballots were redacted.
This provides a comparison between the official number of votes reported by the county[5] *and the same reported by the Cast Vote Record. Any differences are reported. Small redactions are normal, as some counties redact very small precincts, generally ones with 10 or less voters. Counties with more ballots in their Cast Vote Records than officially reported should be investigated to determine the reason. It is possible that there are double records for adjudicated ballots, with nothing existing in the Cast Vote Record to determine which were valid. If this is the case, the number of extra ballots is not enough to be statistically significant in my analysis.*

According to the Cast Vote Record, President Trump won this county by 69.7% to Joseph Biden's 28.0%.
This provides the final percentages of President Trump and Joseph Biden according to the Cast Vote Record. This is provided both for context and to allow for the reader to compare these percentages with the official results.

Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.10 in favor of President Trump
This reports if the county mail-in results fit the Mesa Pattern and the back half ratio as well as any other observations and anomalies which may exist. If the county displays the Reverse Mesa Pattern, this will be referred to as a back half dip in favor of Joseph Biden.

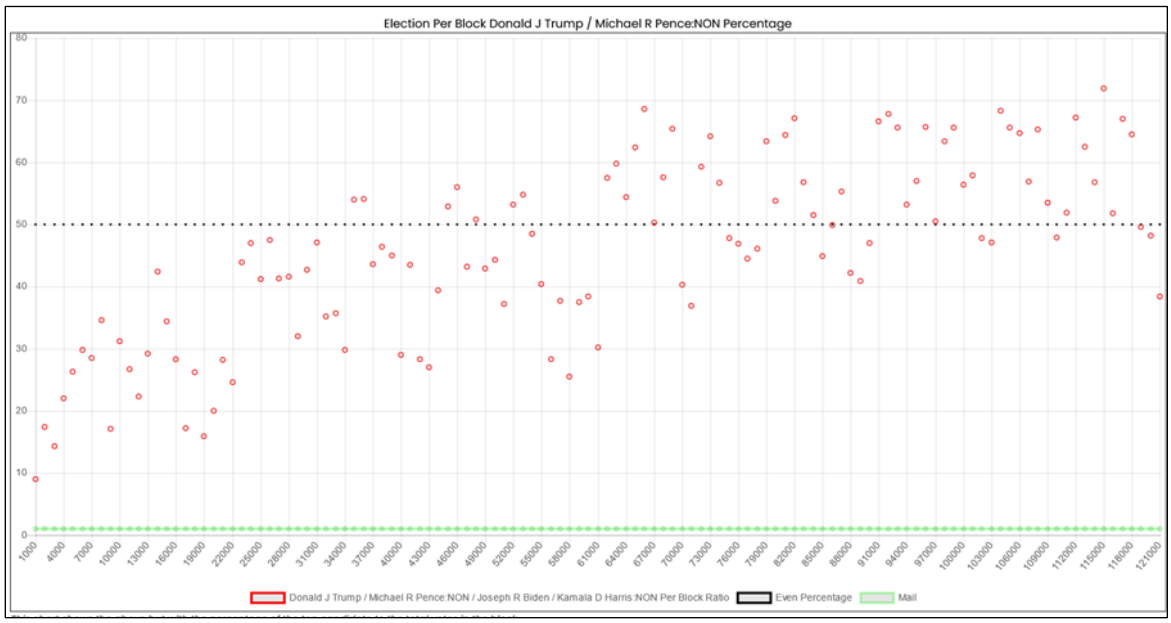


The above graph plots the percentage of votes reported for President Trump vs. Joseph Biden at any point in the mail-in vote

[4] Source: https://verifiedvoting.org
[5] All official vote totals are taken from the associated Wikipedia page for that state's 2020 Election Results

counting. It is the primary visual method to determine the Mesa Pattern. The vertical (up and down) axis is the percentage of votes. The horizontal (left to right) axis is the number of votes counted at that point. A black horizontal like will mark the 50% line, if that percent amount is shown in the graph.

Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.
This briefly discusses the following graph, which shows the percentage of votes for President Trump vs Joseph Biden in individual blocks of votes (100, 1000, or 10,000 depending upon the size of the county) as the counting progressed.



For additional analysis for any county Cast Vote Record in my possession, please see https://votedatabase.com. For raw Cast Vote Record data, please go to https://votedatabase.com/cvr.

BALLOTS PROCESSED BY DATE

This section displays the number of ballots counted by the county on each day of the election. NOTE: This data is only available from counties using Hart Intercivic Cast Vote Records in XML format.

Because the county supplied its Cast Vote Record in individual xml files, the dates those files were created can be used to determine when most ballots were processed. The numbers can be compared with official records. Each line shows the ballots processed, the Trump and Biden votes counted on that day, and the day's percentage for each of the candidates. **Dates before the election counting period are not explainable and seem most prevalent to election day votes**.

Date	Total	Trump	Biden	Trump %	Biden %
1/1/2020	5,447	3,035	2,267	55.7%	41.6%
11/3/2020	35,924	9,174	25,847	25.5%	71.9%
11/4/2020	16	5	11	31.3%	68.8%
11/6/2020	4,586	1,548	2,887	33.8%	63.0%
11/13/2020	10,490	3,719	6,357	35.5%	60.6%
11/20/2020	10,468	3,596	6,266	34.4%	59.9%
12/1/2020	1,913	699	1,135	36.5%	59.3%
Total	68,844	21,776	44,770	31.6%	65.0%

CONSECUTIVE VOTES FOR CANDIDATES WITH LESS THAN 1% PROBABILITY

This section displays the number of consecutive votes for President Trump and Joseph Biden encountered in the mail-in votes. The value under "Run" is the number of consecutive votes and the value under "#" is the number of runs of that size encountered. The probability of this occurring, considering the overall percentages of each candidate in the mail-in votes, was calculated. If the probability is less than 1%, meaning that it should be seen less than once in every 100 elections of this size, it is categorized as "Very Unlikely". If the probability was less than 0.1%, meaning that it should be seen less than 1,000 elections of this size, it is categorized as "Extremely Unlikely". As the algorithm described earlier in this report is seen to be smoothing or sorting the votes to achieve the desired outcome, one would expect to see incidences of both candidates with unnatural consecutive runs of votes.

The mail-in votes show the following number of consecutive votes for the indicated candidate, and the likelihood of that many consecutive votes occurring given the final percentage breakdown of the votes.

Consecutive votes for President Trump		
Run	**#**	
15	2	Very Unlikely (0.1-1%)
17	3	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
42	3	Very Unlikely (0.1-1%)
43	7	Very Unlikely (0.1-1%)
44	2	Very Unlikely (0.1-1%)
45	5	Very Unlikely (0.1-1%)
46	2	Very Unlikely (0.1-1%)
47	4	Extremely Unlikely (<0.1%)
48	2	Very Unlikely (0.1-1%)
56	3	Extremely Unlikely (<0.1%)
57	2	Extremely Unlikely (<0.1%)

In the example above, the first line under President Trump's column indicates that twice in the mail-in ballots he received 15 consecutive votes, and the probability of that 15-vote run occurring twice over the total number of votes and overall percentages is between 0.1% and 1% (less than one time out of a hundred matching elections). The last line under Joseph Biden's column indicates that twice in the mail-in ballots he received 57 consecutive votes, and the probability of that 57-vote run occurring three times over the total number of votes and overall percentages is less than 0.1% (less than one time out of a thousand matching elections).

It should be noted that these runs of consecutive votes cut across many precincts.

STATE LEVEL ANALYSIS ITEMS

At the end of each state report there may be additional items. There will be a county summary detailing each county and their manipulation score. That score, with a maximum of 3, defines how well that county's mail-in votes conformed to the Mesa Pattern as described above.

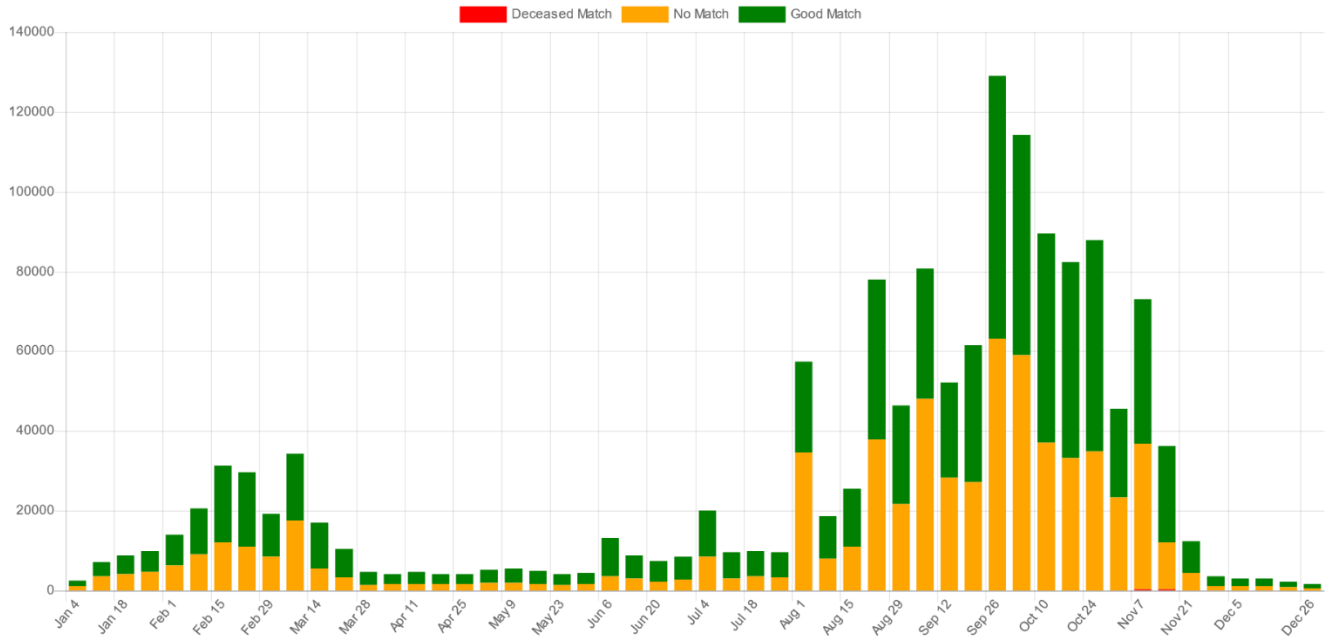
Another is an analysis of the state's HAVV lookups during 2020. The Social Security Administration, which administers HAVV registrations, describes it thusly.[6]

"To comply with the requirements of section 303 of HAVA, SSA developed a new verification system, known as the Help America Vote Verification (HAVV) system, in August 2004. States must only submit a request to us for new voters who do not present a valid driver's license during the voter registration process. HAVV verifies the accuracy of the name, date of birth, and last four digits of SSN submitted and sends an indication of whether our records show the individual as deceased."

As stated, this system should be used for the purpose of registering voters with no driver's license or other state or federal-issued form of identification. The sheer number of lookups – and rejections –indicates to me that the HAVV system may have been used nefariously to inject voters into the registration databases of the various states utilizing it (39 out of the 50 states).

Example:

[6] https://www.ssa.gov/open/havv/



For the detailed data for any state, please see https://votedatabase.com/havv.asp.

Lastly, here may be a table indicating any counties which showed the removal of already reported votes during the election night reporting. This data is taken from the New York Times website, and it is provided by Edison Research.

Example:

County	Timestamp	Candidate	Number of Votes Removed	Type of Votes Removed
IMPERIAL	11/9/20 12:17 PM	Trump	2,391	Total Votes
IMPERIAL	11/9/20 12:17 PM	Biden	8,377	Total Votes
IMPERIAL	11/9/20 12:17 PM	Trump	2,391	Election Day Votes
IMPERIAL	11/9/20 12:17 PM	Biden	8,377	Election Day Votes
IMPERIAL	11/12/20 3:35 PM	Trump	1,801	Election Day Votes
IMPERIAL	11/12/20 3:35 PM	Biden	4,200	Election Day Votes
MENDOCINO	11/25/20 4:48 PM	Trump	10,268	Election Day Votes
MENDOCINO	11/25/20 4:48 PM	Biden	24,383	Election Day Votes
SAN BERNARDINO	11/4/20 6:57 AM	Trump	91,329	Election Day Votes
SAN BERNARDINO	11/4/20 6:57 AM	Biden	200,493	Election Day Votes
SAN DIEGO	11/9/20 8:48 PM	Trump	130,015	Election Day Votes
SAN DIEGO	11/9/20 8:48 PM	Biden	170,003	Election Day Votes

For more detailed information on the 2020 election night reporting for any state and county, please see https://votedatabase.com/votegraphv3.asp.

ARIZONA

4 of the 15 Arizona Counties responded positively to public records requests for Cast Vote Records. All 4 counties properly responding show the Mesa Pattern in their mail-in ballots. The average Back Half Rise of the 4 counties was 1.19.

The following chart shows the total ballots, Trump Midpoint percentage, Trump Endpoint percentage, and the Back Half Rise.

County	Ballots	Trump Endpoint	Trump Midpoint	Back Half Rise
Maricopa	1,864,300	48%	40%	1.18
Pima	512,700	41%	30%	1.33
Santa Cruz	19,556	32%	27%	1.18
Yuma	70,594	53%	50%	1.07

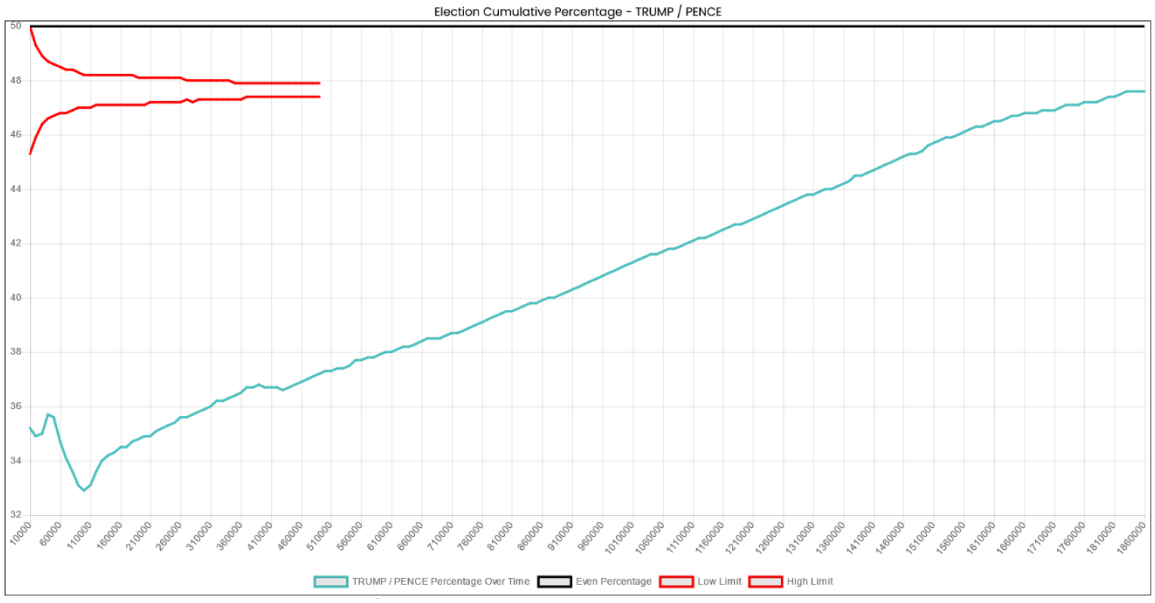
Following is the detailed breakdown of the two counties which provided an adequate Cast Vote Record.

- **Maricopa County**
  Vendor: Dominion Voting Systems

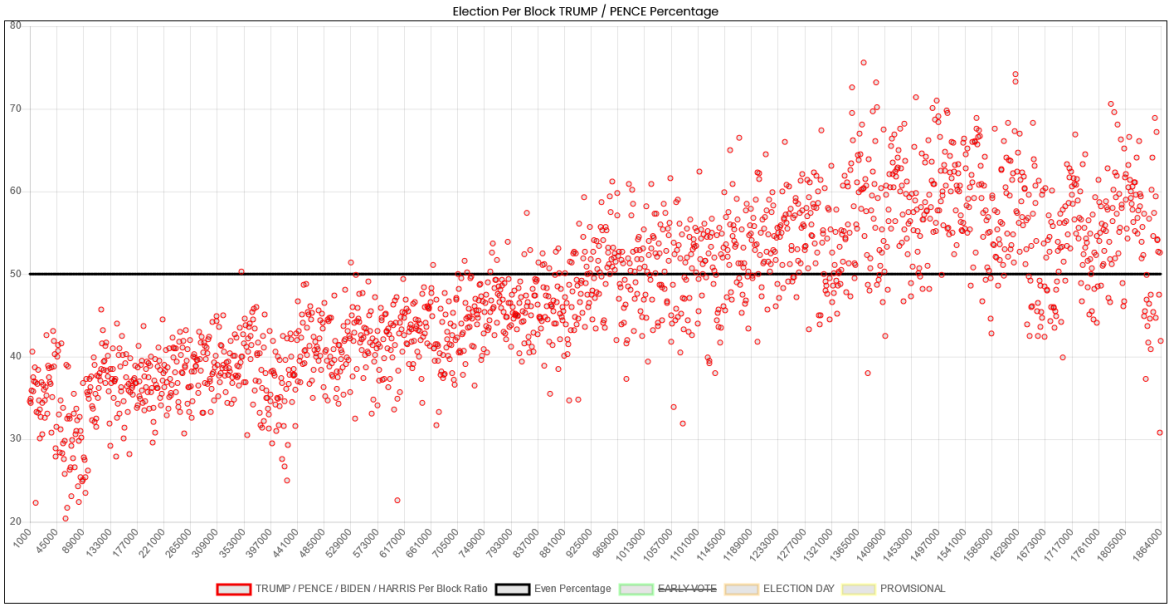
  The Arizona official results report 2,076,086 ballots cast for president, and the Cast Vote Record reports 2,072,400. Thus, **3,686** ballots were redacted. This is abnormally high.

  According to the Cast Vote Record, President Trump lost this county with 48.0% to Joseph Biden's 50.1%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.18 in favor of President Trump. The slope of the upward rise is one of the most severe and consistent I have seen. Note that the red expected range cone is calculated to only 500,000 votes, which is why it does not extend throughout the entire graph.



Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds, with a dip at the end. Given the very close election in 2020, this dip is significant.

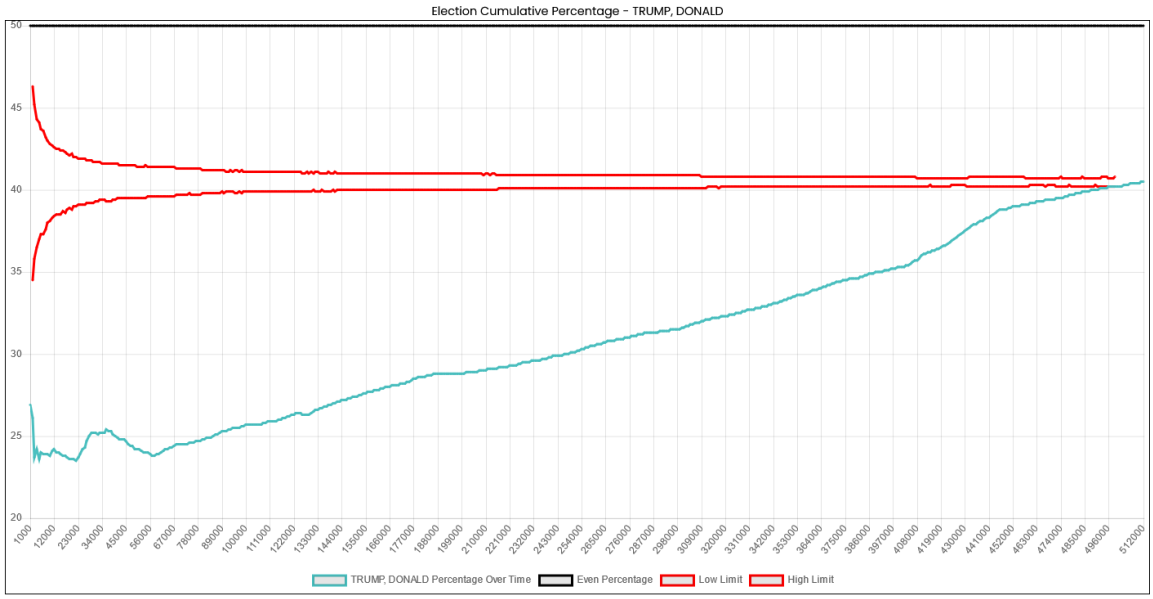


- **Pima County**
  Vendor: Election Systems & Software

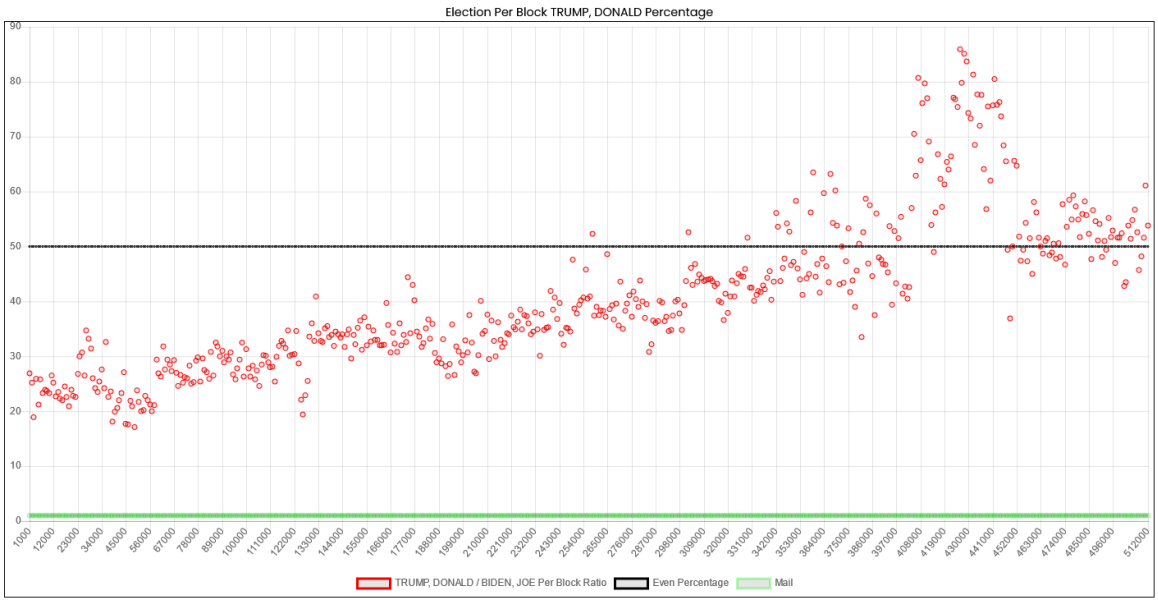
  The Arizona official results report 522,174 ballots cast for president, and the Cast Vote Record reports 520,397. Thus, **1,777** ballots were redacted. The Cast Vote Record reports 8,136 overvotes, in which the voter cast votes for more than one presidential candidate.

  According to the Cast Vote Record, President Trump lost this county with 39.5% to Joseph Biden's 57.9%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.33 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the lower cluster at the very end (or possibly higher cluster just before that).

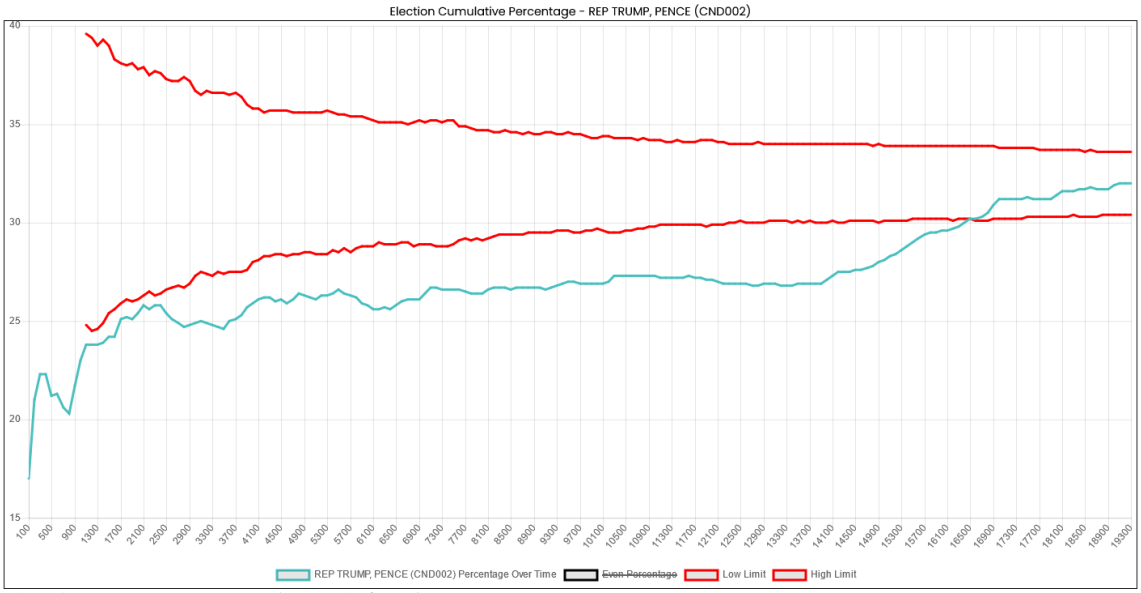


- **Santa Cruz County**
  Vendor: Election Systems & Software

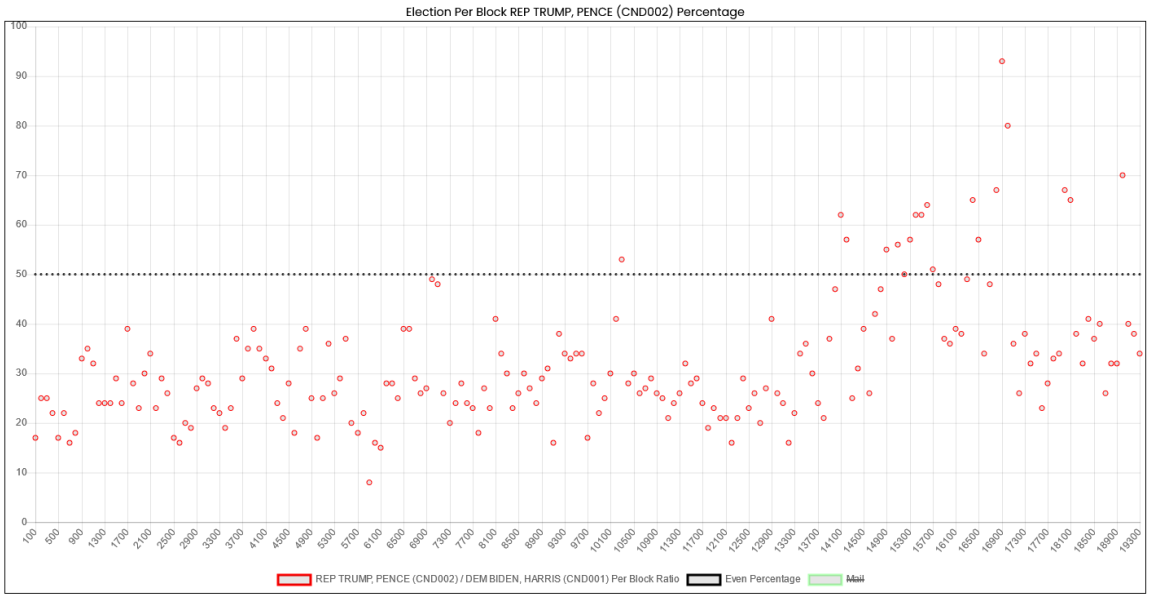
  The Arizona official results report 19,581 ballots cast for president, and the Cast Vote Record reports 19,556. Thus, **25** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 31.7% to Joseph Biden's 67.2%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.33 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a small general rise as the counting continues.

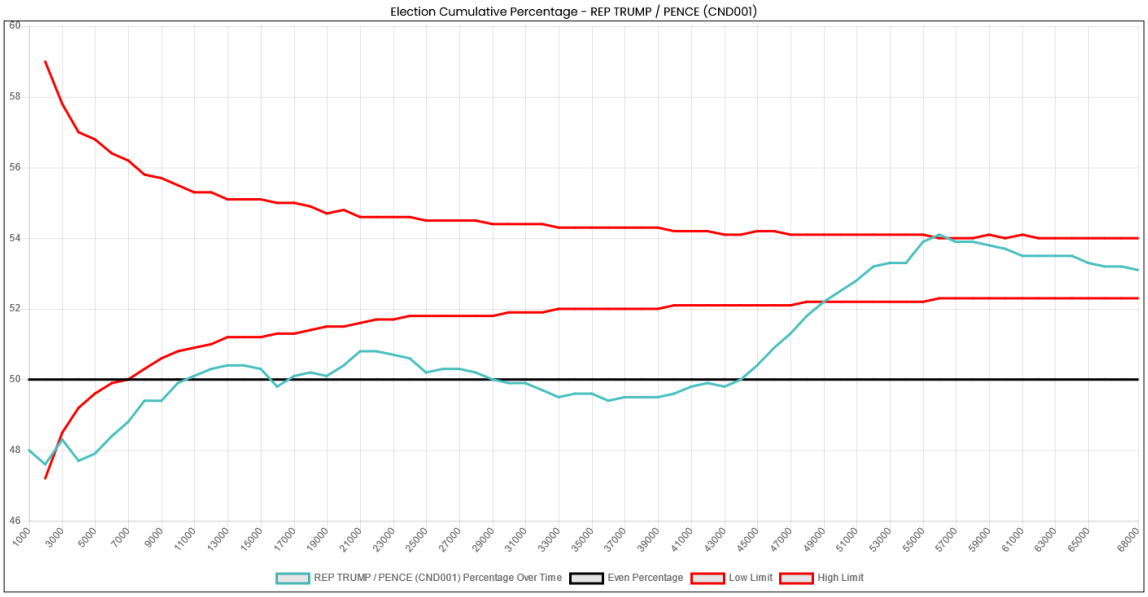


- **Yuma County**
  Vendor: Election Systems & Software

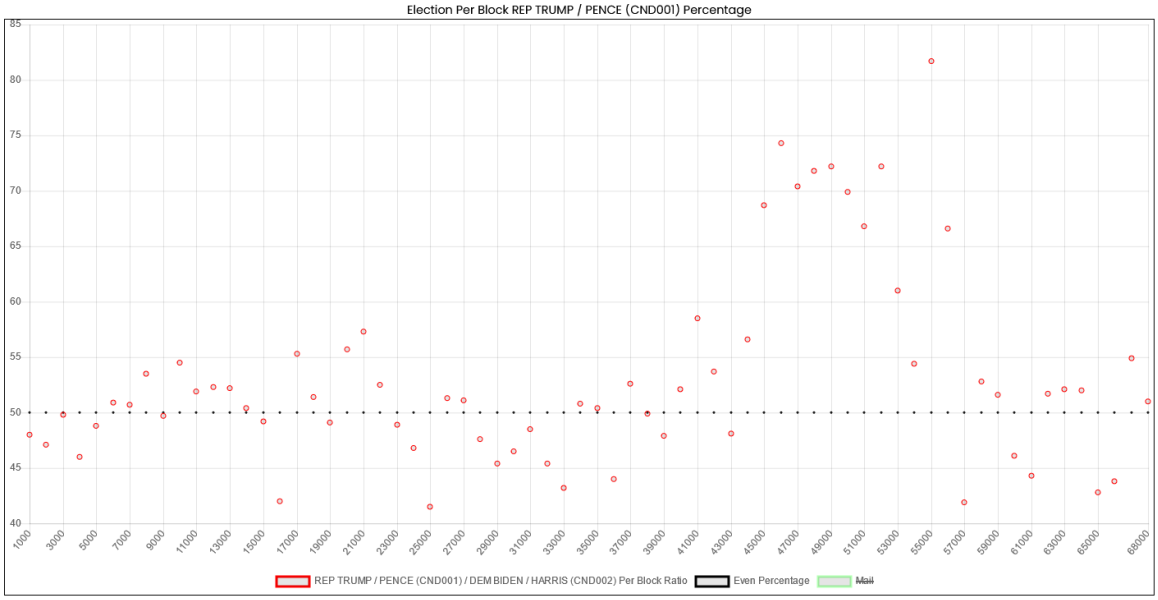
  The Arizona official results report 70,072 ballots cast for president, and the Cast Vote Record reports 70,594. Thus, **the Yuma County Cast Vote Record contains 522 more ballots than the official record.**

  According to the Cast Vote Record, President Trump won this county with 51.8% to Joseph Biden's 45.8%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.07 in favor of President Trump. However, the patterns seems to have taken longer to emerge in this county.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rises and falls throughout the counting..



COUNTY SUMMARY ANALYSIS

The following shows each county for which a Cast Vote Record was received, and a score based upon three criteria.

1. The County shows the visual aspect of the Mesa Pattern (or its reverse) – 1 point.
2. The County has a back half rise (or fall) greater than or equal to 1.1 (rounded) – 1 point.
3. The percentage plot of President Trump's votes exceeds the range of possible values indicated by the red cone – 1 point.

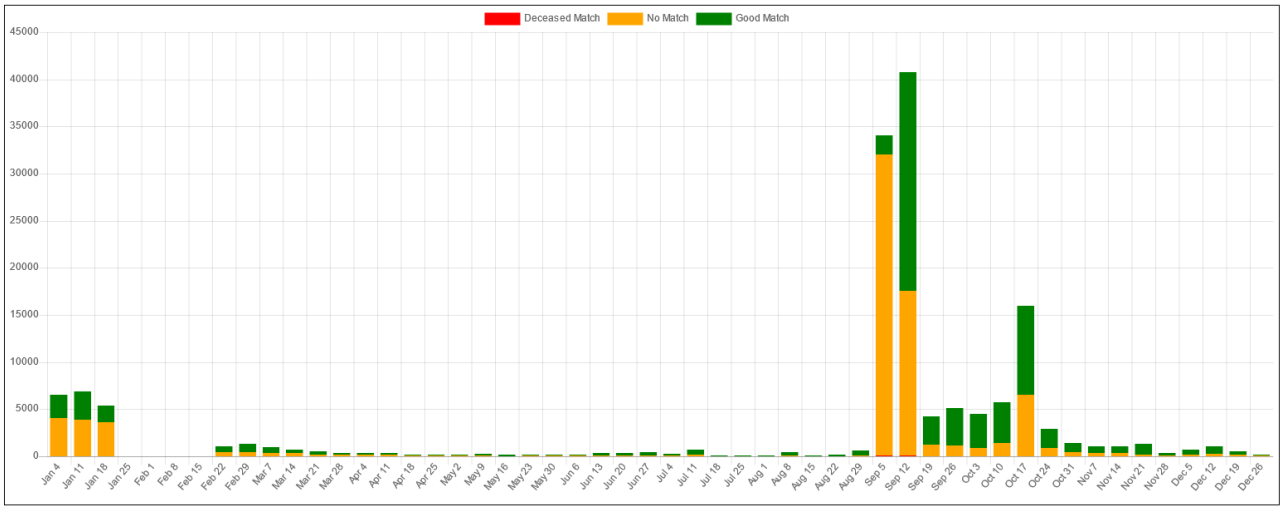
While any score above zero indicates machine manipulation, the actual score may correlate to the severity of the manipulation.

County	Vendor	Manipulation Score
Maricopa	Dominion Voting Systems	3
Pima	Election Systems & Software	3
Santa Cruz	Election Systems & Software	3
Yuma	Election Systems & Software	2

STATE HAVV LOOKUP ANALYSIS

Arizona's HAVV lookup statistics (as provided by the Social Security Administration) give the appearance that this program is being abused to register unqualified voters. A total of 150,894 queries were made by the state during 2020, and 79,229 (52.5%) of them were rejected as "no match". 308 of the queries were rejected as "Single Match Deceased". The week of September 5th, 34,026 HAVV queries were made by Arizona, and 31,199 (94%) were rejected as "no match". Lookups can and do lag behind the actual date of application.

Remembering that this type of voter qualification is intended to be used for those without proper identification, all of these numbers seem extremely high, and should be further investigated.



ELECTION NIGHT RESULT ANOMALIES

This table lists Arizona counties which experienced election night reporting anomalies. The data is taken from the Edison/New York Times election night reporting results from the 2020 General Election.

There are three different vote totals reported for each candidate in the election night reporting, the total votes, the election day votes, and the absentee votes. If there are votes removed from the election day or absentee and there is not a corresponding drop in total votes, that means that vote counts were shifted from election day to absentee or vice versa.

County	Timestamp	Candidate	Number of Votes	Type of Votes Removed
COCHISE	11/6/20 7:16 PM	Trump	1,357	Election Day Votes
COCHISE	11/6/20 7:16 PM	Biden	742	Election Day Votes
COCHISE	11/9/20 6:51 PM	Trump	2,315	Election Day Votes
COCHISE	11/9/20 6:51 PM	Biden	1,017	Election Day Votes
GILA	11/10/20 7:57 PM	Trump	2	Election Day Votes
MARICOPA	11/5/20 2:45 AM	Trump	35,911	Election Day Votes
MARICOPA	11/5/20 2:45 AM	Biden	25,128	Election Day Votes
MARICOPA	11/6/20 9:12 PM	Trump	38,388	Election Day Votes
MARICOPA	11/6/20 9:12 PM	Biden	31,433	Election Day Votes
MARICOPA	11/10/20 9:59 PM	Trump	2,982	Election Day Votes
MARICOPA	11/10/20 9:59 PM	Biden	2,213	Election Day Votes
NAVAJO	11/5/20 7:37 PM	Trump	892	Election Day Votes
NAVAJO	11/5/20 7:37 PM	Biden	703	Election Day Votes
PIMA	11/13/20 4:31 PM	Trump	4	Election Day Votes
PIMA	11/13/20 4:31 PM	Biden	1	Election Day Votes
SANTA CRUZ	11/4/20 3:29 AM	Trump	2,602	Election Day Votes
SANTA CRUZ	11/4/20 3:29 AM	Biden	8,789	Election Day Votes

CONSECUTIVE VOTES FOR CANDIDATES WITH LESS THAN 1% PROBABILITY

The mail-in votes show the following number of Consecutive Votes For the indicated candidate, and the likelihood of that many consecutive votes occurring given the final percentage breakdown of the votes. The existence of so many of these very improbable runs is an additional indication of the algorithm used to affect the vote results and would be expected given the smoothing sorting of votes indicated by the Mesa Pattern.

Counties not listed did not have any vote runs which fell below the 1% probability or exhibited precinct level sorting.

Maricopa

Consecutive votes for President Trump		
Run	#	
25	4	Very Unlikely (0.1-1%)
29	2	Extremely Unlikely (<0.1%)

Pima

Consecutive votes for President Trump		
Run	#	
16	52	Very Unlikely (0.1-1%)
17	24	Very Unlikely (0.1-1%)
18	37	Very Unlikely (0.1-1%)
19	19	Extremely Unlikely (<0.1%)
20	24	Extremely Unlikely (<0.1%)
21	14	Extremely Unlikely (<0.1%)
22	19	Extremely Unlikely (<0.1%)
23	9	Extremely Unlikely (<0.1%)
24	12	Extremely Unlikely (<0.1%)
25	11	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
31	7	Very Unlikely (0.1-1%)
32	7	Very Unlikely (0.1-1%)
34	4	Very Unlikely (0.1-1%)
35	2	Very Unlikely (0.1-1%)
36	3	Very Unlikely (0.1-1%)
37	2	Very Unlikely (0.1-1%)
42	2	Extremely Unlikely (<0.1%)
43	2	Extremely Unlikely (<0.1%)
45	3	Extremely Unlikely (<0.1%)
54	2	Extremely Unlikely (<0.1%)

26	5	Extremely Unlikely (<0.1%)
27	6	Extremely Unlikely (<0.1%)
28	5	Extremely Unlikely (<0.1%)
29	11	Extremely Unlikely (<0.1%)
30	5	Extremely Unlikely (<0.1%)
31	3	Extremely Unlikely (<0.1%)
32	2	Extremely Unlikely (<0.1%)
33	3	Extremely Unlikely (<0.1%)
39	2	Extremely Unlikely (<0.1%)
43	2	Extremely Unlikely (<0.1%)
47	3	Extremely Unlikely (<0.1%)

Santa Cruz

Consecutive votes for President Trump		
Run	**#**	
13	4	Very Unlikely (0.1-1%)
14	4	Extremely Unlikely (<0.1%)
15	3	Extremely Unlikely (<0.1%)

Yuma

Consecutive votes for President Trump		
Run	**#**	
27	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
22	2	Very Unlikely (0.1-1%)
23	2	Very Unlikely (0.1-1%)
24	3	Very Unlikely (0.1-1%)
25	2	Extremely Unlikely (<0.1%)
27	2	Extremely Unlikely (<0.1%)

CALIFORNIA

48 of the 58 California Counties responded positively to public records requests for Cast Vote Records. Three of the counties, Alameda, Imperial, and Sacramento, responded with either far too many records or far too few, preventing serious analysis. San Diego provided their Cast Vote Record in a manner that makes correlating its numbers with the official results impossible, but portions of it were suitable for analysis.

In all, 37 of the 48 counties responding show the general Mesa Pattern in their mail-in ballots. The average back half rise of the 37 counties was 1.15.

The following chart shows the total ballots, Trump mail-in Midpoint percentage, Trump mail-in Endpoint percentage, and the Back Half Rise.

County	Vendor	Mail Votes	Trump Ending %	Trump Mid %	Back Half Rise
Contra Costa	Dominion Voting Systems	519,300	24%	21%	1.18
Del Norte	Dominion Voting Systems	9,200	55%	47%	1.19
El Dorado	Dominion Voting Systems	102,100	52%	43%	1.21
Fresno	Dominion Voting Systems	308,100	44%	40%	1.1
Glenn	Dominion Voting Systems	10,300	63%	61%	1.04
Humboldt	Hart InterCivic	61,200	31%	26%	1.19
Inyo	Dominion Voting Systems	7,400	48%	39%	1.23
Kern	Dominion Voting Systems	234,900	52%	46%	1.14
King	Dominion Voting Systems	37,700	55%	53%	1.05
Lake	Hart InterCivic	28,000	47%	38%	1.22
Los Angeles	Smartmatic/Los Angeles County	3,295,000	23%	19%	1.22
Marin	Dominion Voting Systems	140,700	14%	12%	1.19
Mendocino	Hart InterCivic	42,000	32%	25%	1.25
Merced	Election Systems & Software	52,800	41%	39%	1.05
Mono	Dominion Voting Systems	4,700	34%	29%	1.16
Nevada	Hart InterCivic	57,900	41%	35%	1.15
Orange	Hart InterCivic	1,236,000	41%	34%	1.19
Placer	Dominion Voting Systems	214,300	52%	47%	1.1
Riverside	Dominion Voting Systems	859,700	44%	40%	1.1
San Benito	Dominion Voting Systems	25,600	36%	32%	1.11
San Bernardino	Dominion Voting Systems	671,400	41%	35%	1.17
San Diego File 1	Dominion Voting Systems	248,700	37%	32%	1.17
San Francisco	Dominion Voting Systems	397,400	12%	10%	1.14

San Joaquin	Hart InterCivic	124,800	36%	34%	1.08
San Luis Obispo	Dominion Voting Systems	146,200	42%	34%	1.25
San Mateo	Dominion Voting Systems	335,100	19%	15%	1.22
Santa Barbara	Dominion Voting Systems	176,600	32%	25%	1.25
Santa Cruz	Dominion Voting Systems	128,700	17%	14%	1.27
Shasta	Dominion Voting Systems	64,100	63%	55%	1.16
Solano	Hart InterCivic	178,200	32%	27%	1.16
Sonoma	Dominion Voting Systems	182,000	19%	19%	1.01
Stanislaus	Hart InterCivic	210,100	50%	44%	1.14
Sutter	Dominion Voting Systems	41,500	58%	52%	1.11
Tehama	Dominion Voting Systems	22,900	65%	57%	1.15
Tuolumne	Dominion Voting Systems	27,900	58%	48%	1.21
Ventura	Dominion Voting Systems	368,000	36%	33%	1.09
Yuba	Dominion Voting Systems	24,800	58%	52%	1.11

Following is the detailed breakdown of each of the 48 counties which provided an adequate Cast Vote Record.

- **Alameda County**
  Vendor: Dominion Voting Systems

  Alameda County responded with 34 files, each apparently broken up by tabulator and voting type. However, repeated efforts to correlate these records with official records have been unsuccessful. Not only are the file formats different from those produced by any other Dominion system I have seen, the raw number of ballots represented for President Trump and Joseph Biden are 244,062 and 461,872, respectively, which falls well outside of the 136,309 and 617,659 reported by the state.

  As the numbers cannot be correlated to even a small degree, no analysis of Alameda County's CVRs can be performed, other than to state that this may indicate a severe problem with the county's election systems.

- **Amador County**
  Vendor: Election Systems & Software

  The California official results reports 22,304 ballots cast for president, and the Cast Vote Record reports 22,264. Thus, **40** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 60.1% to Joseph Biden's 36.1%.

  Analysis of the Cast Vote Record indicates that the mail-in votes show sorting by precinct, meaning that analysis for a Mesa Pattern is not possible.

- **<u>Calaveras County</u>**
  Vendor: Hart Intercivic

  The California official results report 27,194 ballots cast for president, and the Cast Vote Record reports 27,272. Thus, **the Calaveras County Cast Vote Record contains 78 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 60.0% to Joseph Biden's 36.6%.

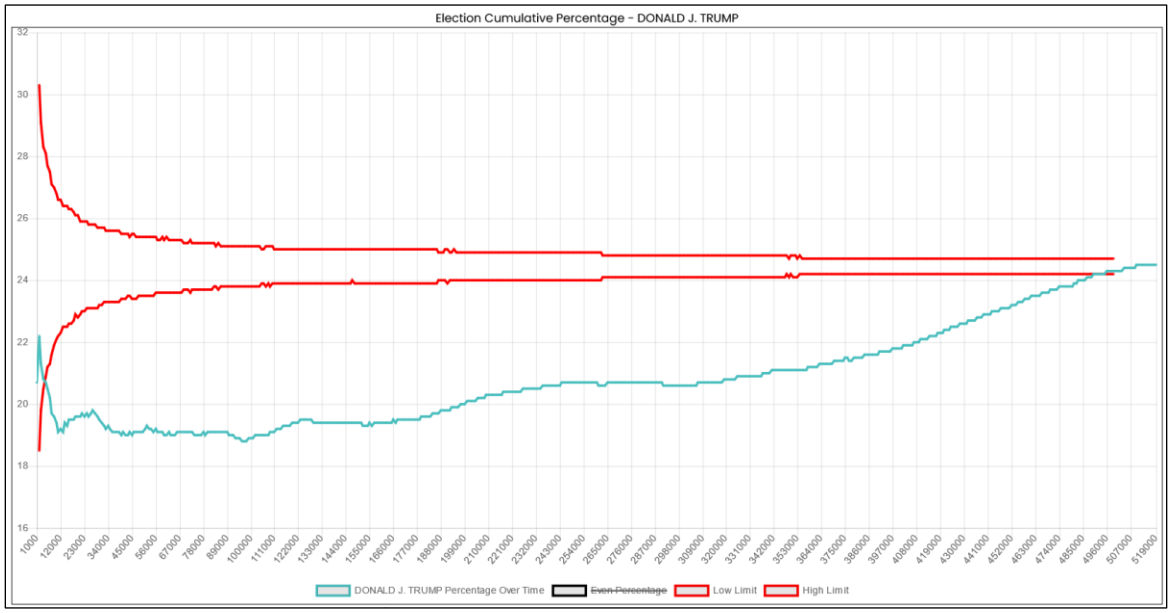
  Calaveras supplied its Cast Vote Record in one PDF file, and the ballot records are in an indeterminate, perhaps random, order. Analysis for any patterns is not possible.

- **<u>Contra Costa County</u>**
  Vendor: Election Systems & Software

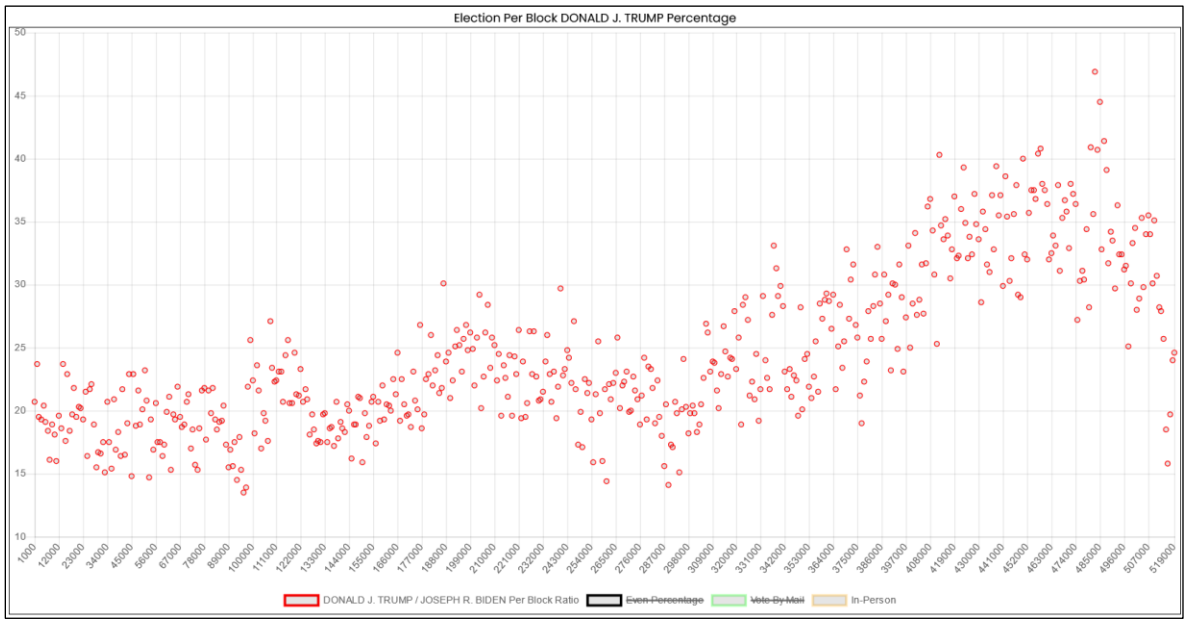
  The California official results report 581,316 ballots cast for president, and the Cast Vote Record reports 581,322. Thus, **the Contra Costa County Cast Vote Record contains 6 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 26.3% to Joseph Biden's 71.6%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

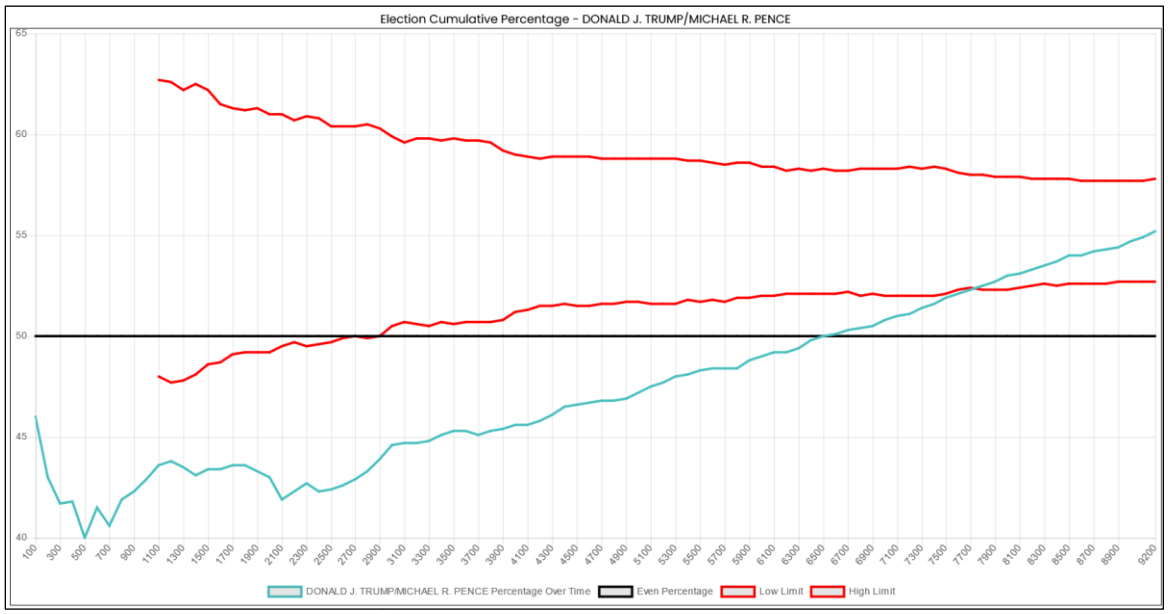


- **<u>Del Norte County</u>**
  Vendor: Dominion Voting Systems

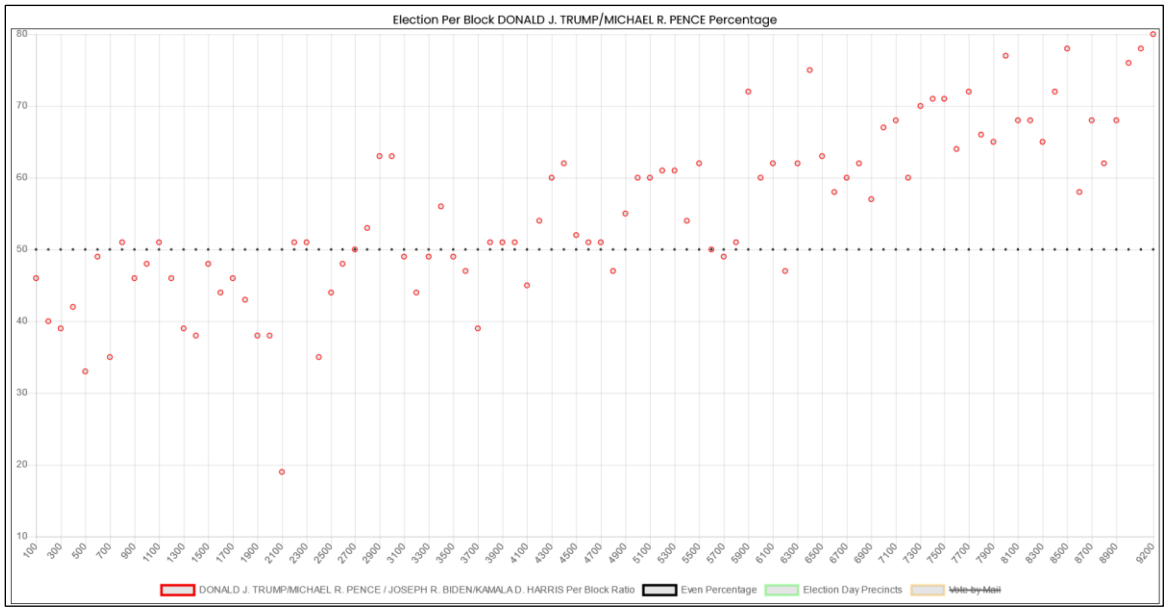
  The California official results report 11,453 ballots cast for president, and the Cast Vote Record reports 11,501. Thus, **the Del Norte County Cast Vote Records contains 48 more votes than the official results.**

  According to the Cast Vote Record, President Trump won this county with 56.1% to Joseph Biden's 40.5%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.18 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

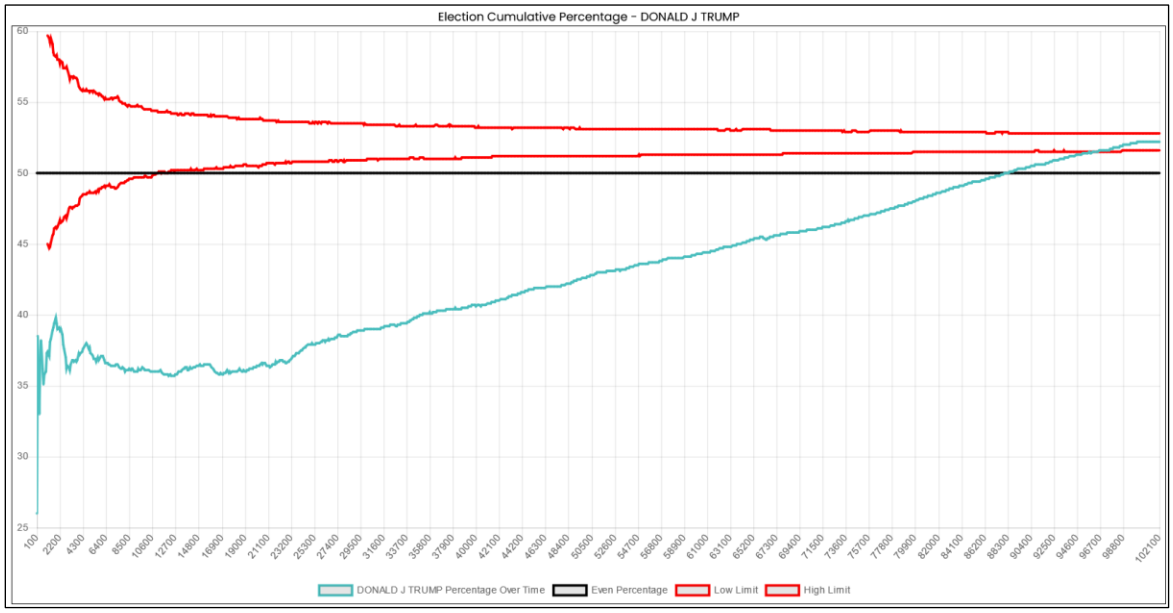


- **<u>El Dorado County</u>**
  Vendor: Dominion Voting Systems

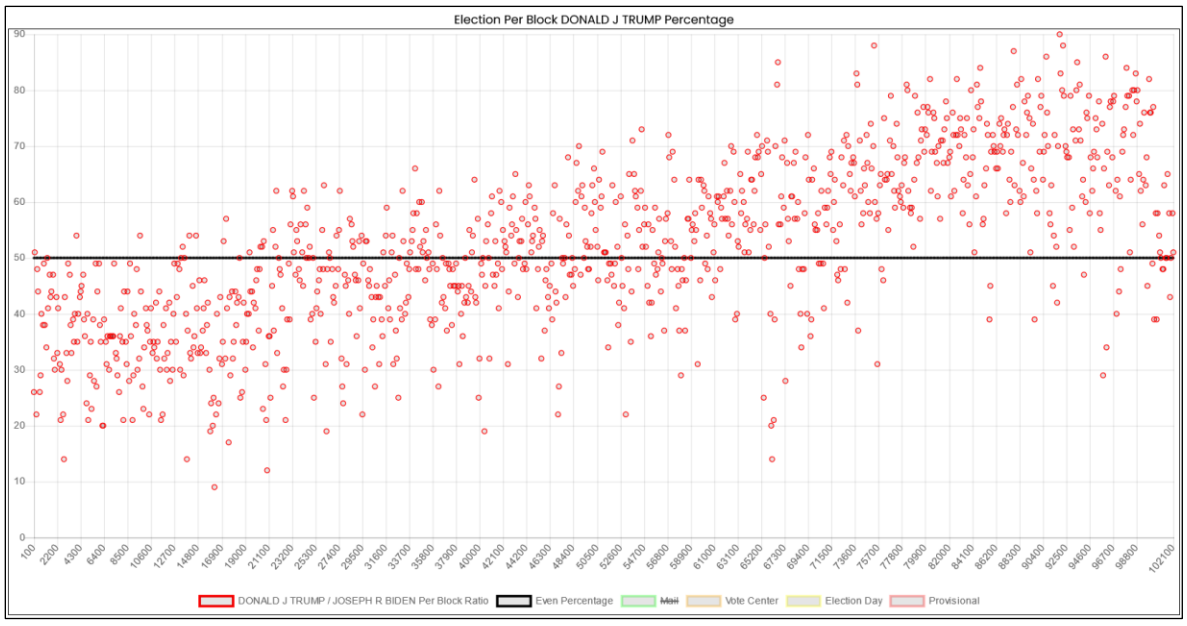
  The California official results report 116,159 ballots cast for president, and the Cast Vote Record reports 116,159. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 53.2% to Joseph Biden's 44.4%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.21 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

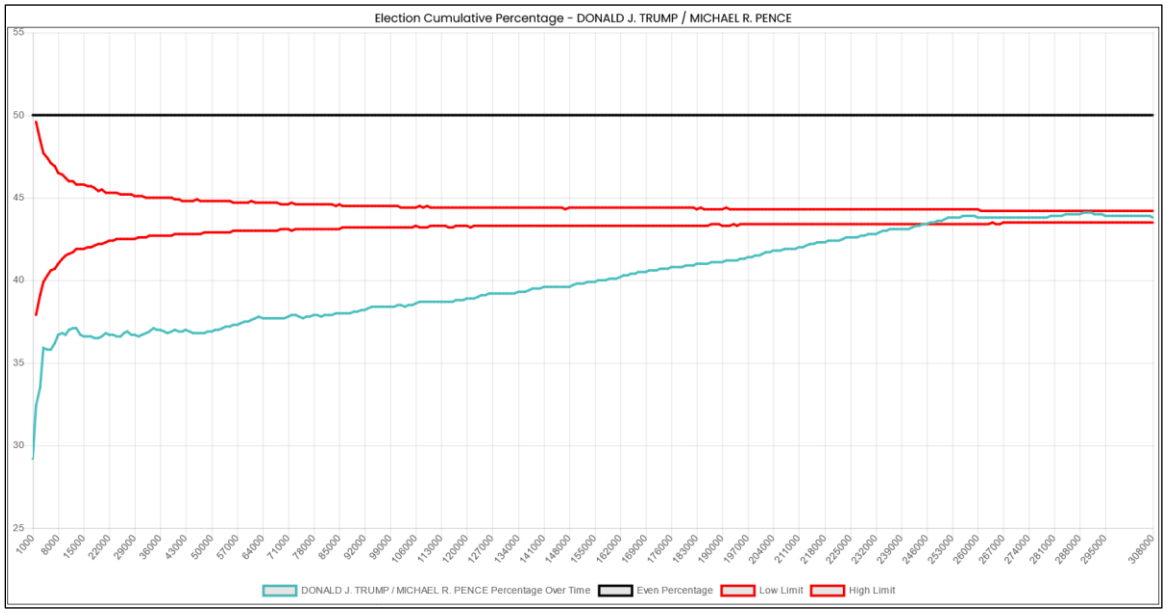


- **Fresno County**
  Vendor: Dominion Voting Systems

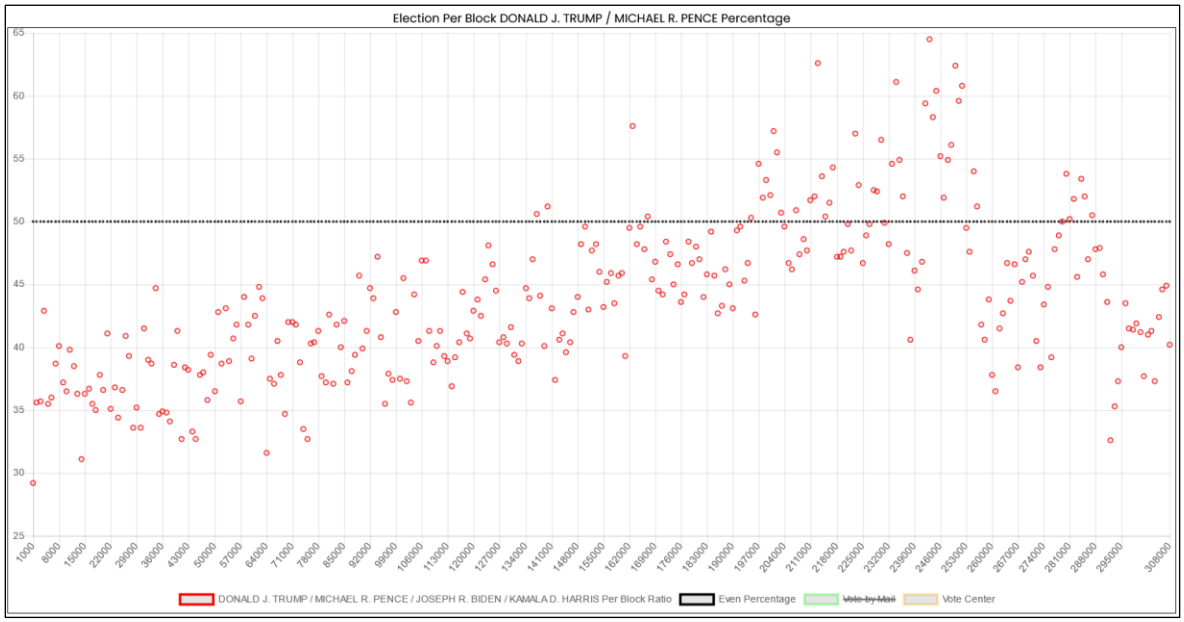
  The California official results report 364,917 ballots cast for president, and the Cast Vote Record reports 364,917. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 45.1% to Joseph Biden's 52.9%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.10 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. However, at the very end, the pattern changes to a downward path towards blocks more favorable to Joseph Biden.

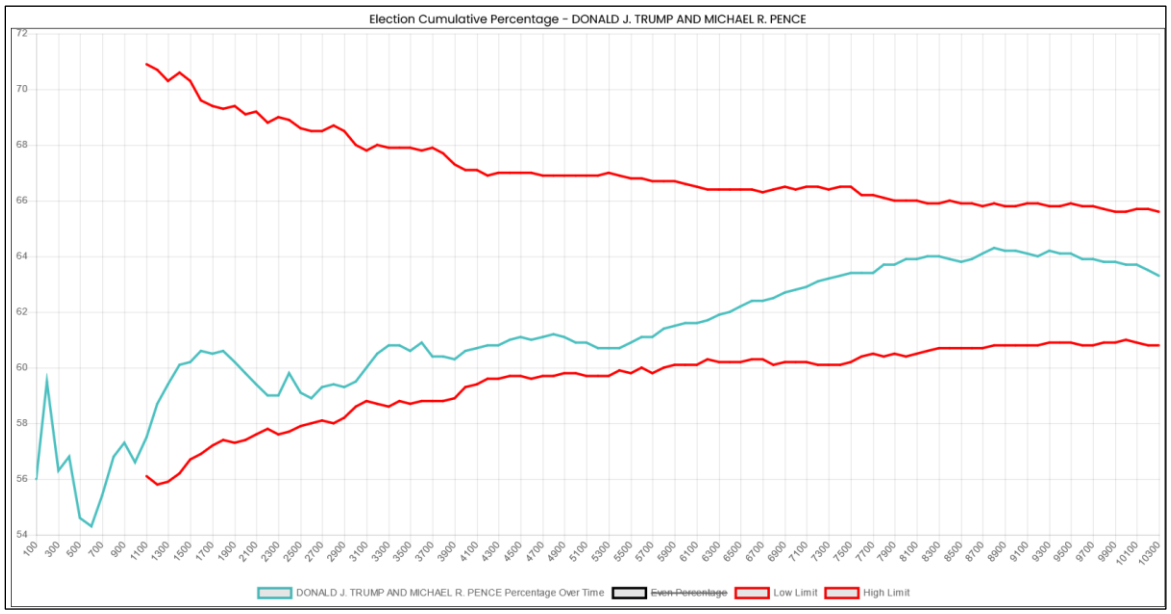


- **Glenn County**
  Vendor: Dominion Voting Systems

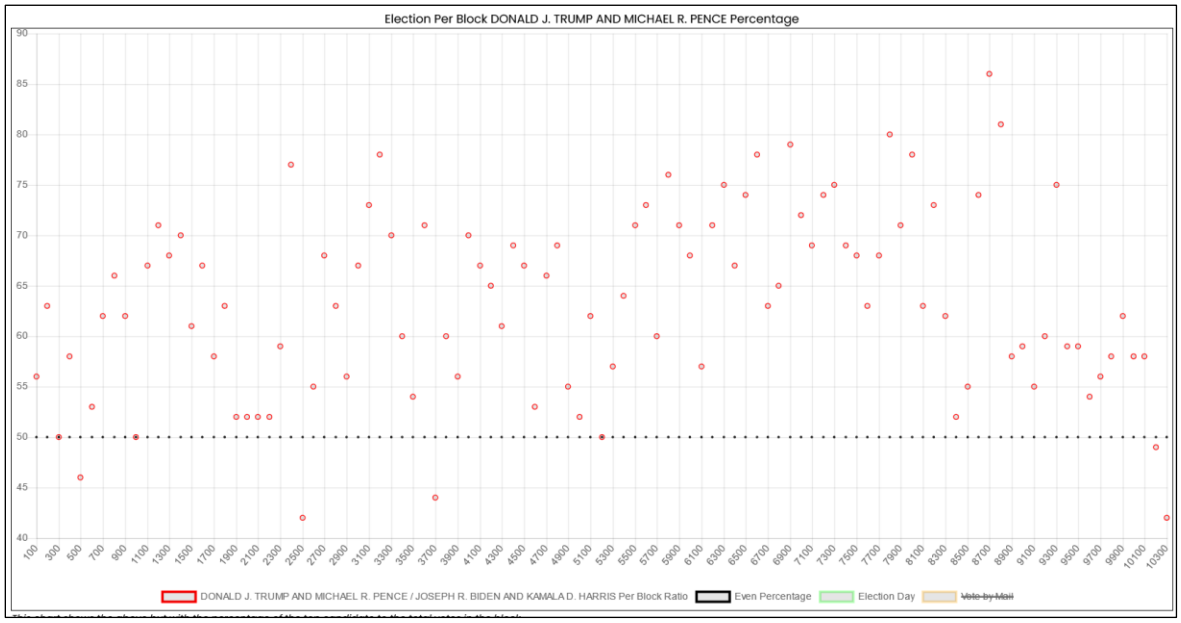
  The California official results report 11,297 ballots cast for president, and the Cast Vote Record reports 11,282. Thus, **the Glenn County Cast Vote Record contains 15 more ballots than the official record.**

  According to the Cast Vote Record, President Trump won this county with 62.3% to Joseph Biden's 35.3%.

  Plotting the mail-in votes in sequence shows the familiar rise of the Mesa Pattern, but the back half rise is only 1.04 (1.05 if the end tail-off is disregarded), and the percentage plot line fits consistently within the red cones.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes shows the slight increase, with a change to a downward path at the very end.

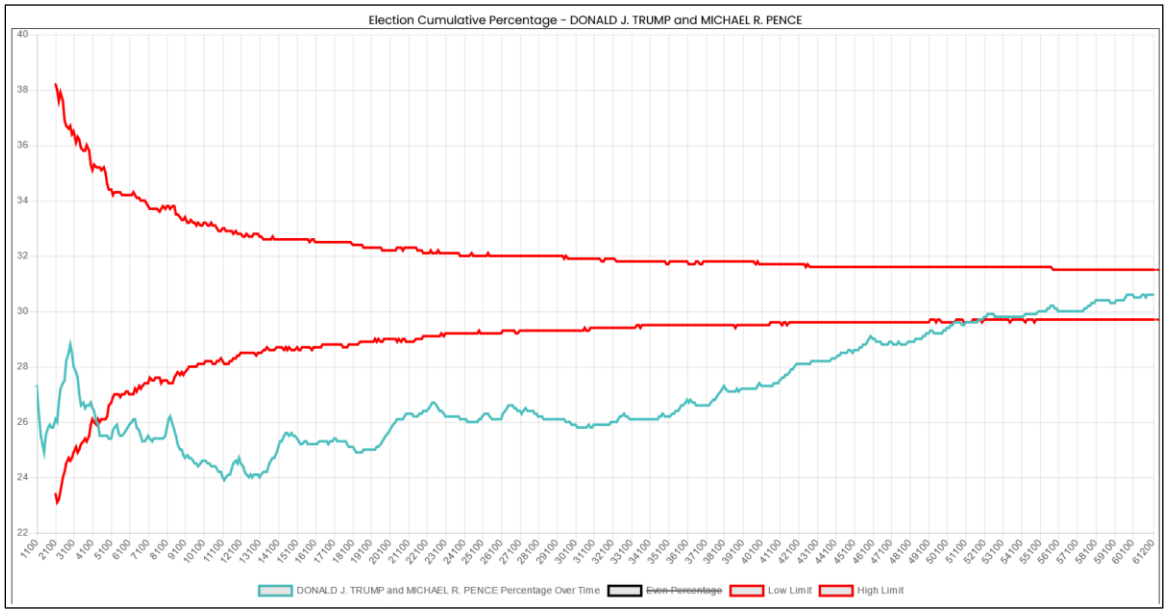


- **<u>Humboldt County</u>**
  Vendor: Hart Intercivic

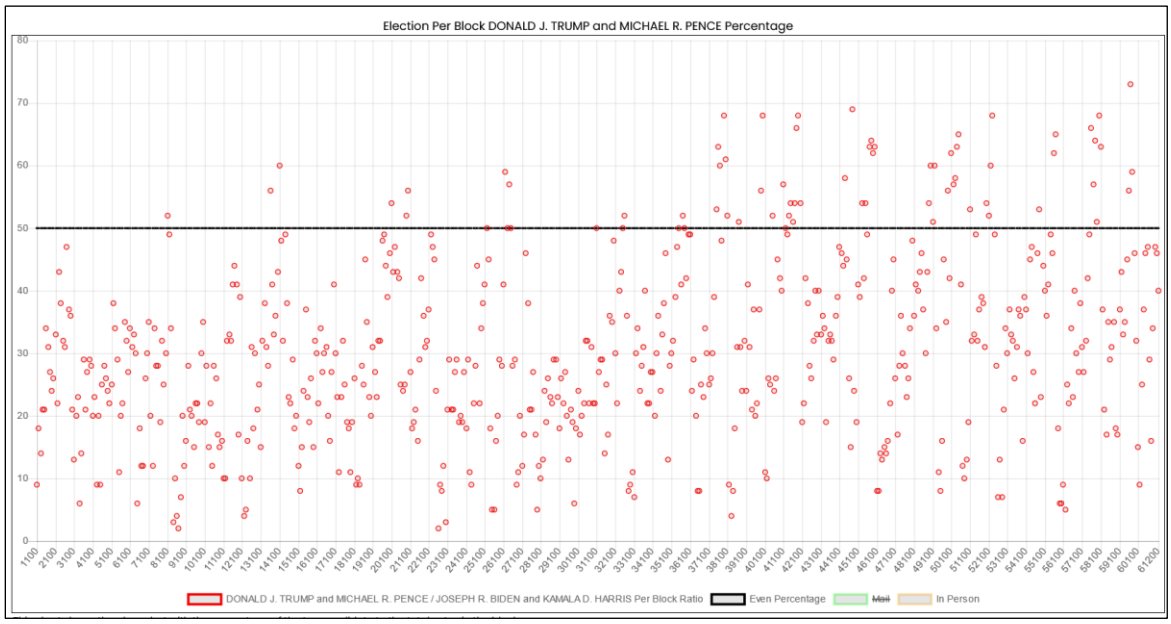
  The California official results report 68,843 ballots cast for president, and the Cast Vote Record reports 68,944. Thus, **the Humboldt County Cast Vote Record contains 101 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 31.6% to Joseph Biden's 65.0%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.18 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a definite difference between the first and second halves of the counting, instead of the normal gradual rise.



BALLOTS PROCESSED BY DATE

Because the county supplied its Cast Vote Record in individual xml files, the dates those files were created can be used to determine when most ballots were processed. The numbers can be compared with official records. Each line shows the ballots processed, the Trump and Biden votes counted on that day, and the day's percentage for each of the candidates. Dates before the election counting period are not easily explainable.

Date	Total	Trump	Biden	Trump %	Biden %
1/1/2020	5,447	3,035	2,267	55.7%	41.6%
11/3/2020	35,924	9,174	25,847	25.5%	71.9%
11/4/2020	16	5	11	31.3%	68.8%
11/6/2020	4,586	1,548	2,887	33.8%	63.0%
11/13/2020	10,490	3,719	6,357	35.5%	60.6%
11/20/2020	10,468	3,596	6,266	34.4%	59.9%
12/1/2020	1,913	699	1,135	36.5%	59.3%
Total	68,844	21,776	44,770	31.6%	65.0%

- **<u>Imperial County</u>**
  Vendor: Dominion Voting Systems

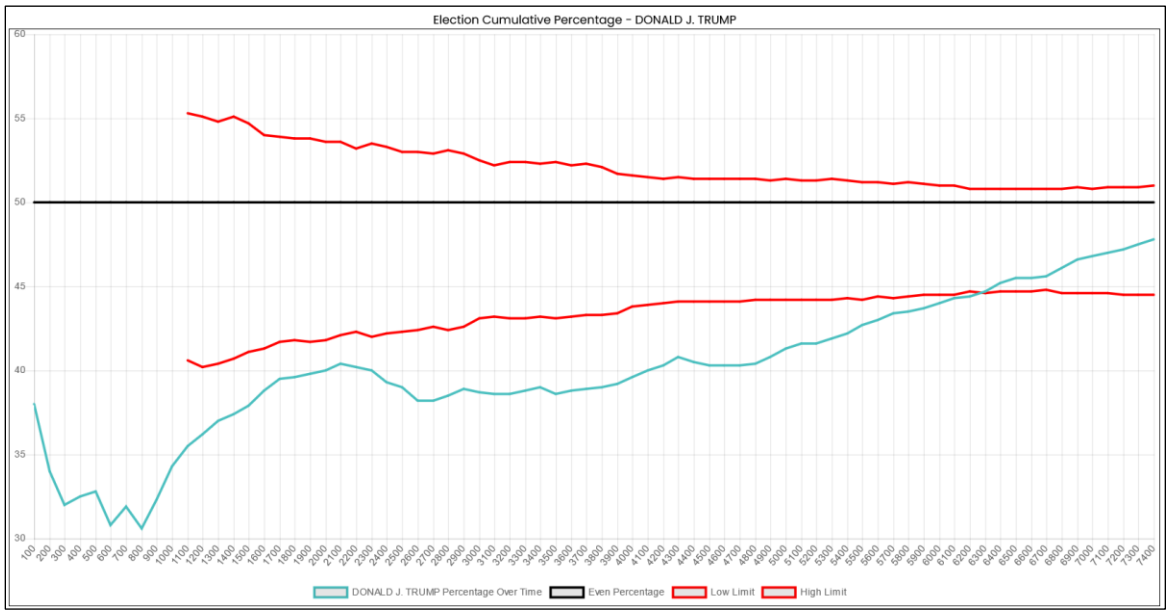
  The California official results report 56,743 ballots cast for president, and the Cast Vote Record reports 16,122. Thus, **the Imperial County Cast Vote Record is missing almost 40,000 records and is incomplete. In the records provided, Plotting the provided mail-in votes in sequence shows the Mesa Pattern with a small back half rise of 1.06 in favor of President Trump.** But with all the missing records, nothing can be presented with any confidence.

- **Inyo County**
  Vendor: Dominion Voting Systems

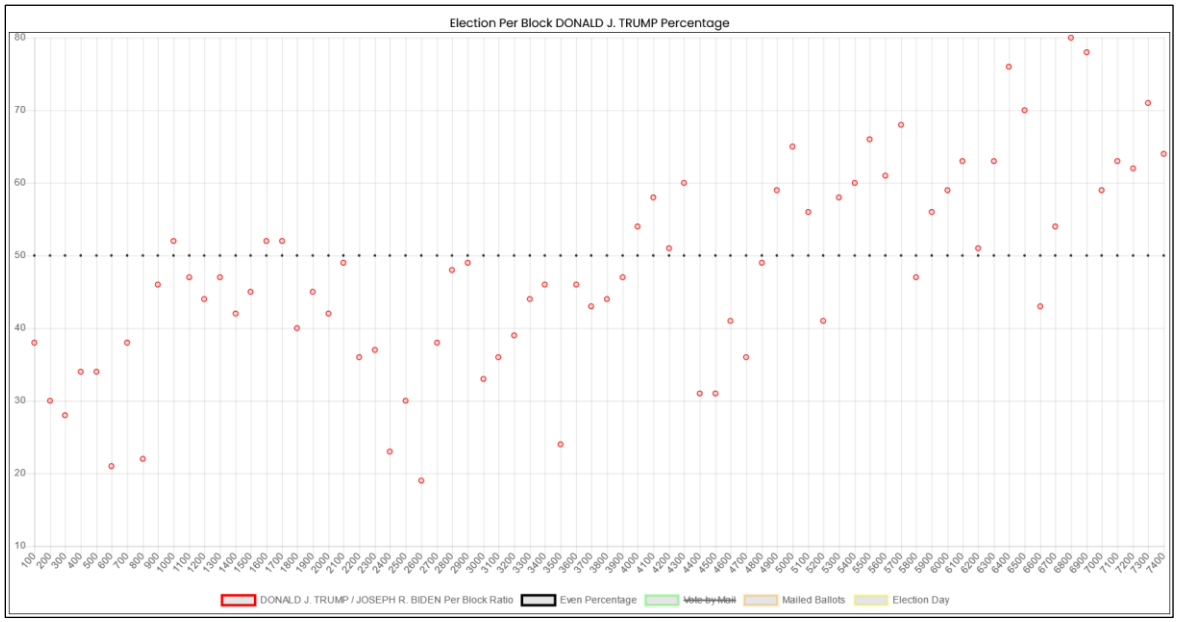
  The California official results report 9,484 ballots cast for president, and the Cast Vote Record reports 9,378. Thus, **104** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 3 votes. Interestingly, **according to the official results, Joseph Biden won this county with 14 votes.**

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.23 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

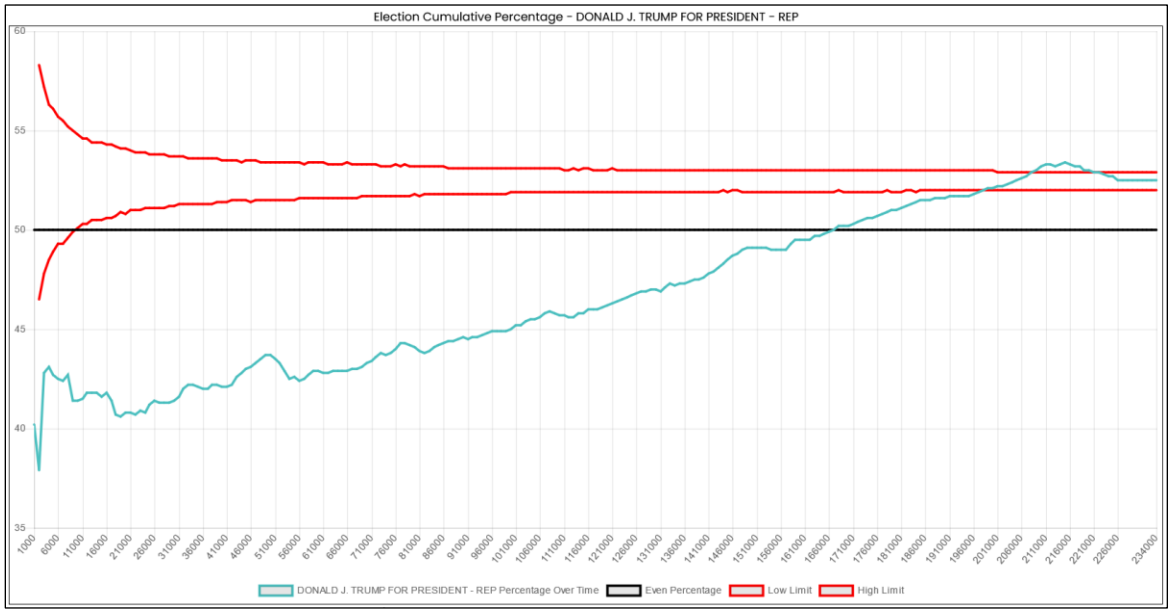


- **<u>Kern County</u>**
  Vendor: Dominion Voting Systems

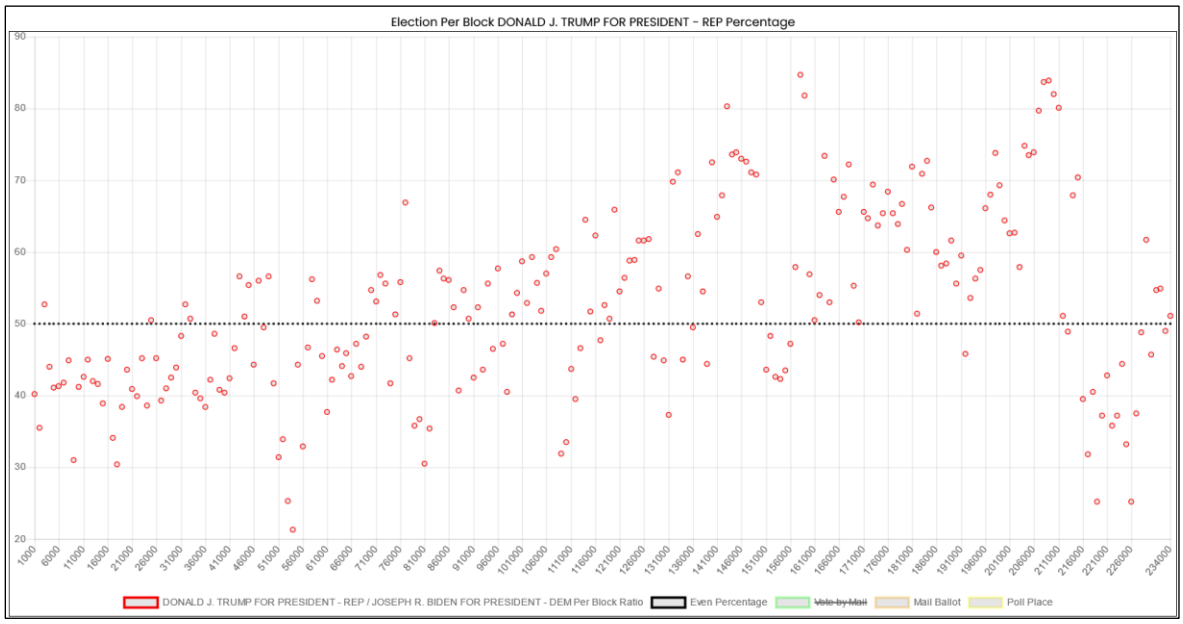
  The California official results report 305,292 ballots cast for president, and the Cast Vote Record reports 305,292. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 53.9% to Joseph Biden's 43.7%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.14 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the sudden drop-off at the end of the counting.

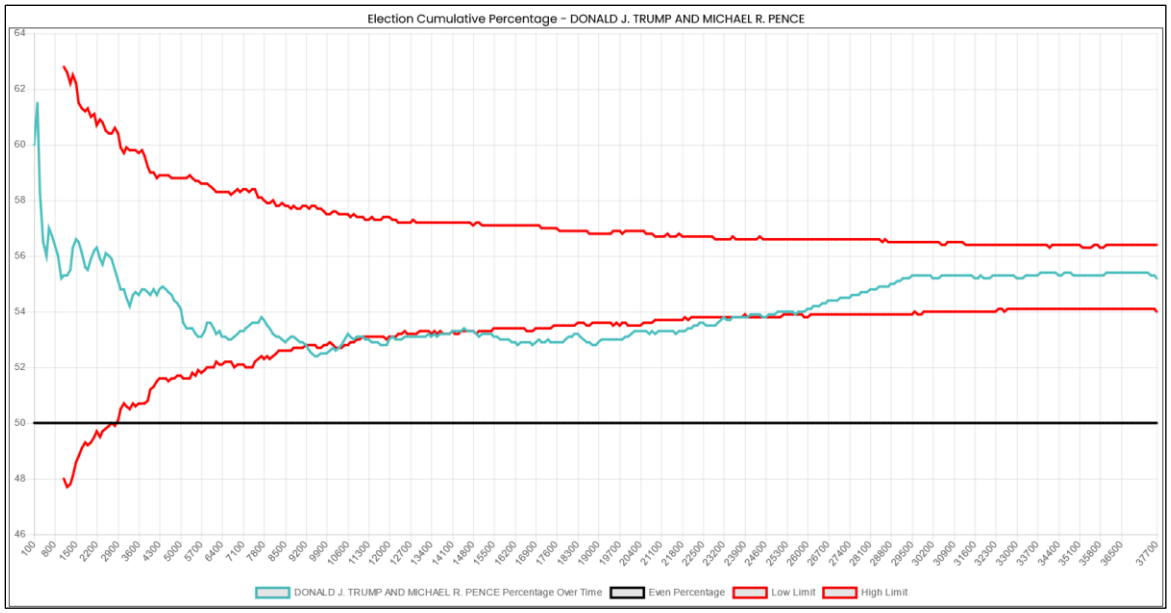


- **Kings County**
  Vendor: Hart Intercivic

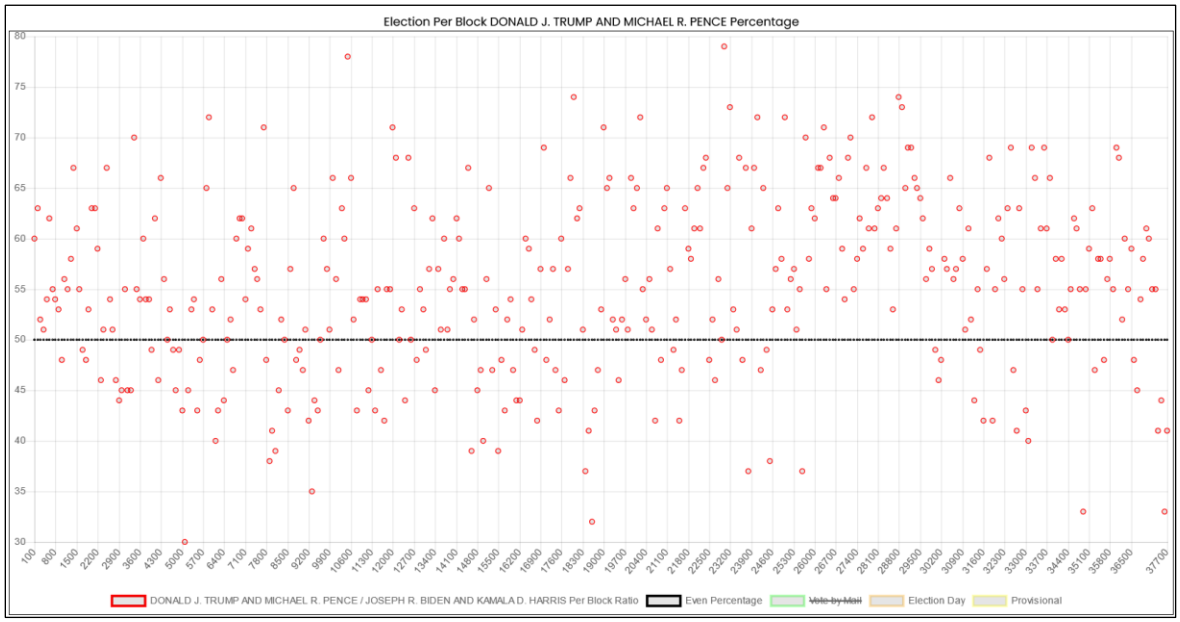
  The California official results report 43,861 ballots cast for president, and the Cast Vote Record reports 43,861. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 54.9% to Joseph Biden's 42.6%.

  Plotting the mail-in votes in sequence shows a slight rise, but then stabilizes in the last quarter of the counting. As such, the only anomaly is that the percentage plot of President Trump's percentage does fall below the possible values indicated by the red cone. No definitive conclusions can be drawn.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes is fairly unremarkable..

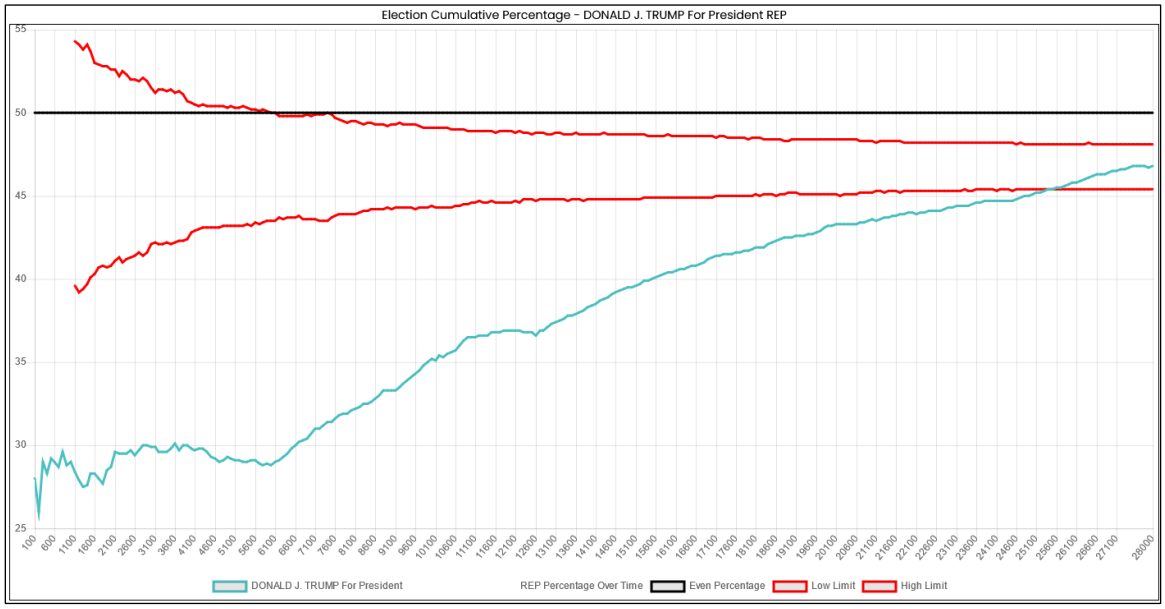


- **Lake County**
  Vendor: Hart Intercivic

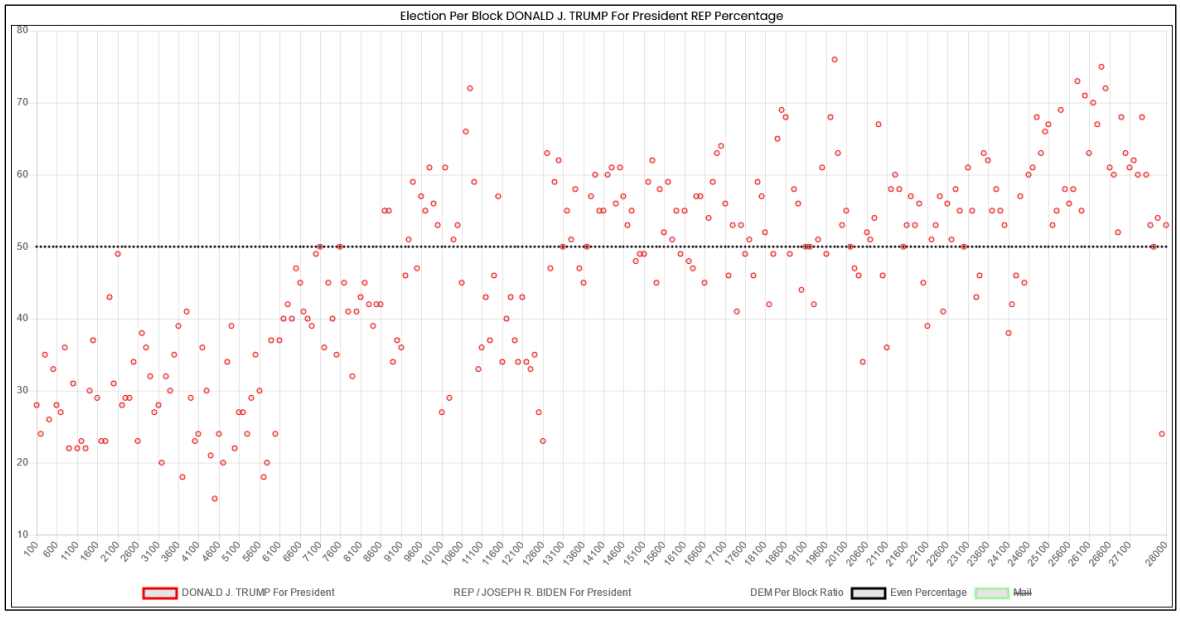
  The California official results report 28,812 ballots cast for president, and the Cast Vote Record reports 28,831. Thus, **the Marin County Cast Vote Record contains 19 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 45.5% to Joseph Biden's 51.9%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.22 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

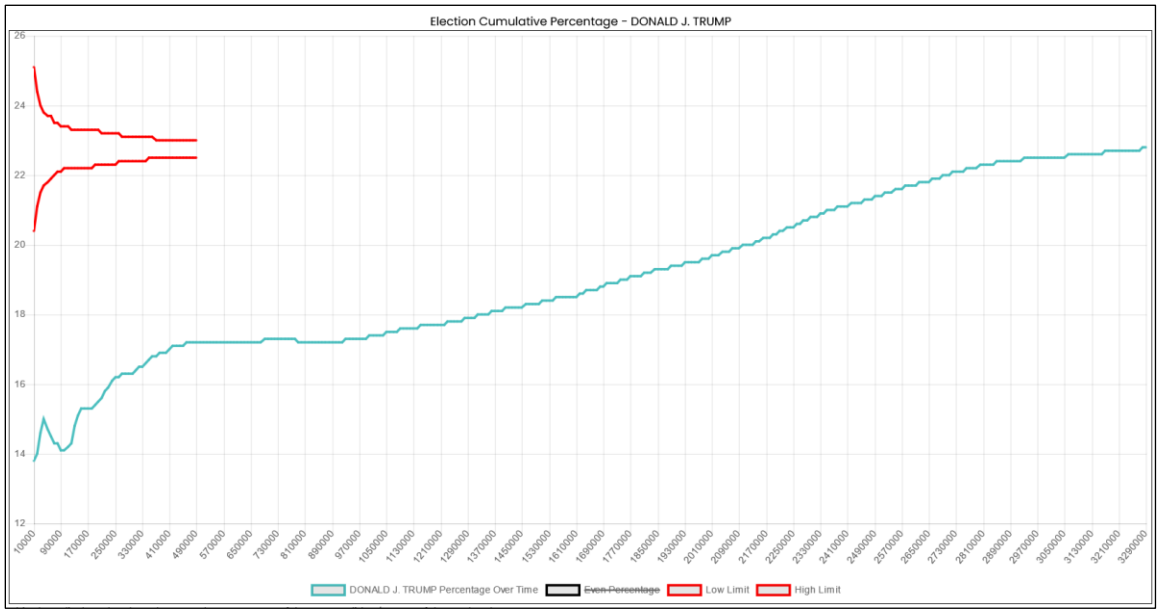


- **<u>Los Angeles County</u>**
  Vendor: Smartmatic

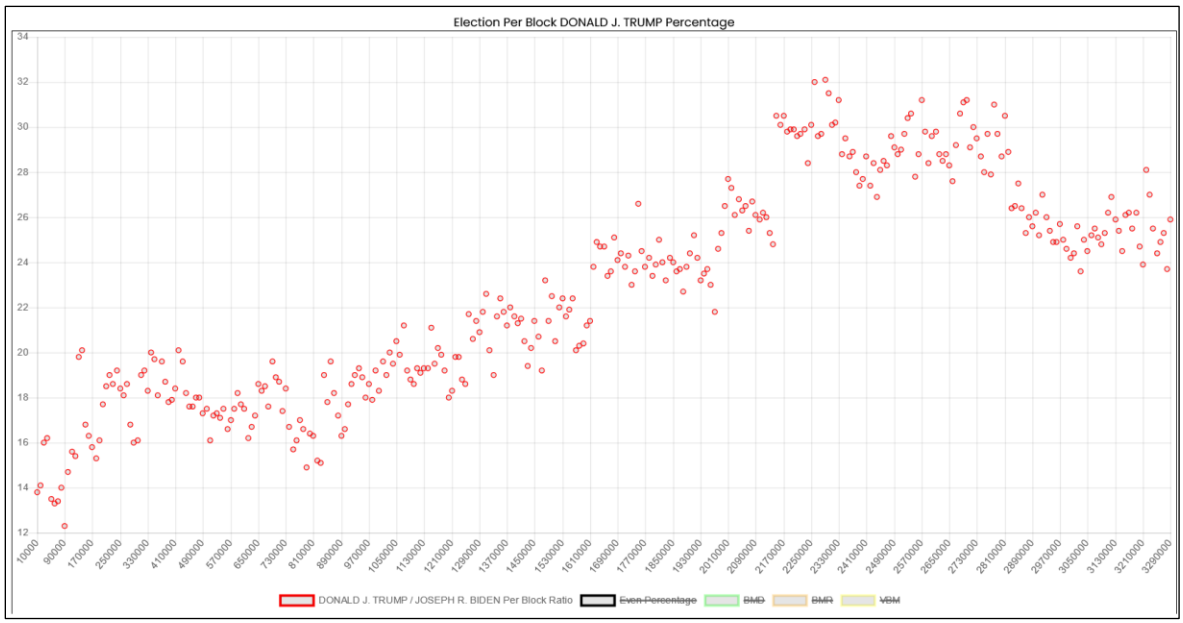
  The California official results report 4,264,365 ballots cast for president, and the Cast Vote Record reports 4,283,775. Thus, **the Los Angeles County Cast Vote Record contains 19,410 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 26.7% to Joseph Biden's 70.7%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.22 in favor of President Trump. Please note that the red possible range cone is only calculated to 500,000 votes. The red lines would continue to converge as the number of votes increase.



  Plotting the percentage of votes for President Trump of every distinct 10,000 mail-in votes clearly shows the gradual rise as the counting proceeds, but a change at the very end as they trend back towards blocks more favorable to Joseph Biden.

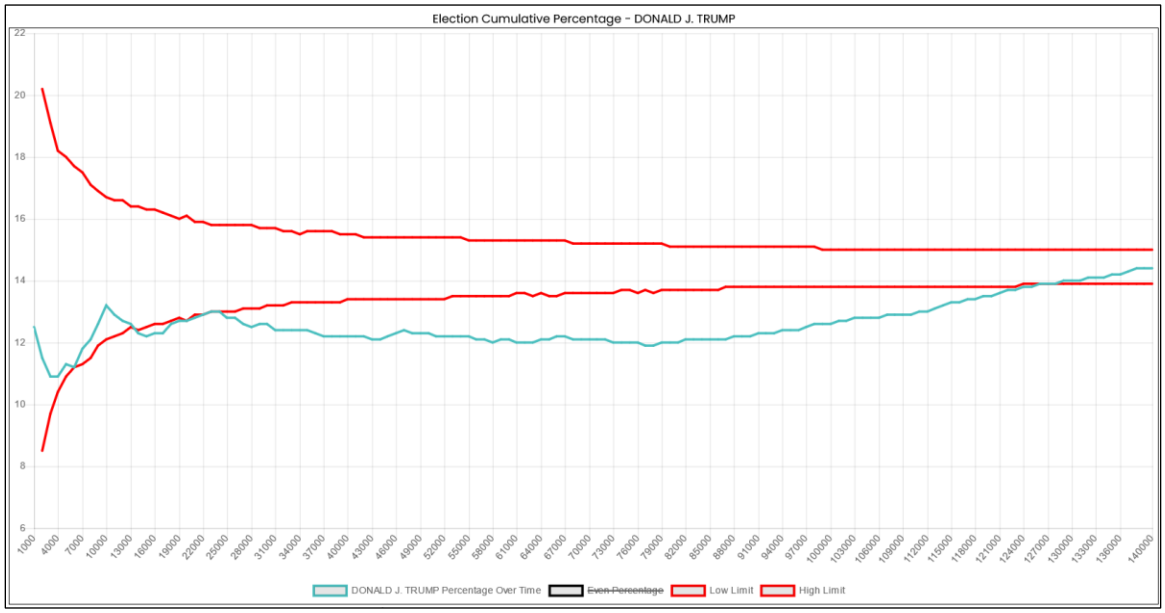


- **Marin County**
  Vendor: Dominion Voting Systems

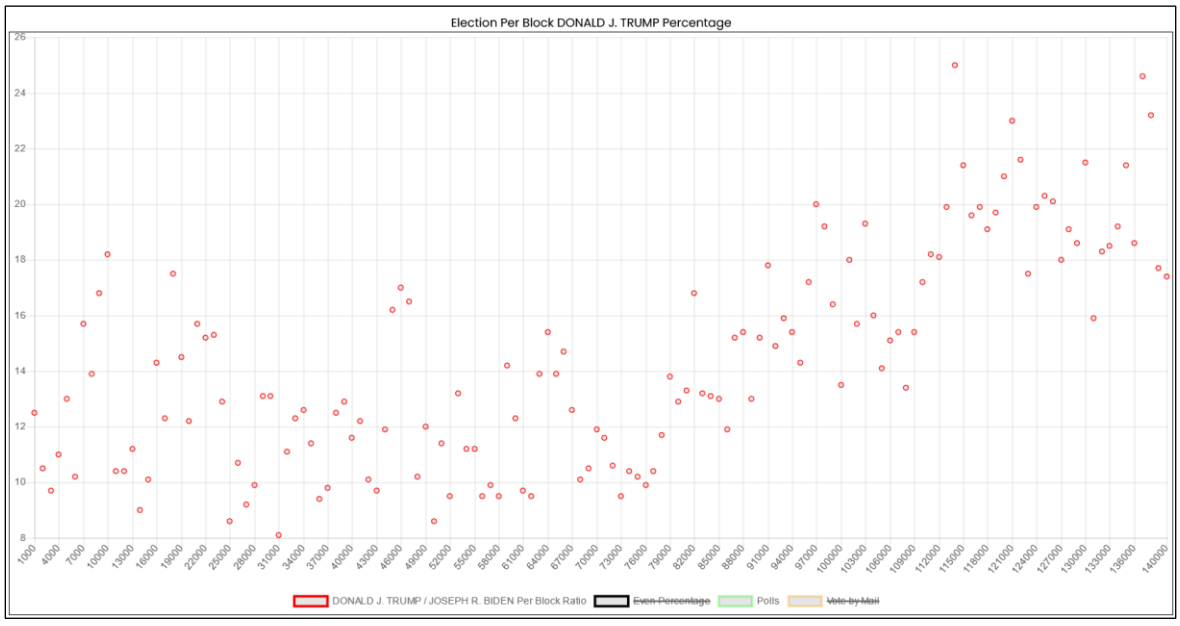
  The California official results report 155,830 ballots cast for president, and the Cast Vote Record reports 156,239. Thus, **the Marin County Cast Vote Record contains 409 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 15.7% to Joseph Biden's 81.9%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.19 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds – however note that the increase begins only at the halfway point..



- **Mariposa County**
  Vendor: Dominion voting Systems

  The California official results report 10,280 ballots cast for president, and the Cast Vote Record reports 10,403. Thus, **123** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 57.6% to Joseph Biden's 39.5%.

  Analyzing the precinct distribution of this county shows that all votes, including mail-in votes, were sorted by precinct and thus no Mesa Pattern analysis is possible.

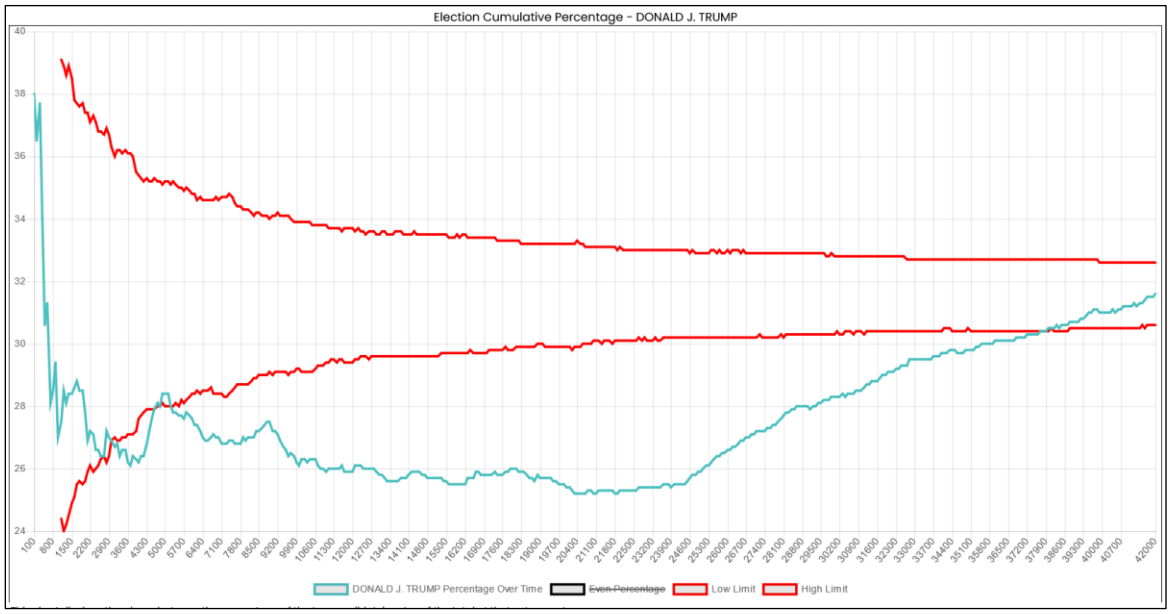
- **Mendocino County**

  Vendor: Hart Intercivic

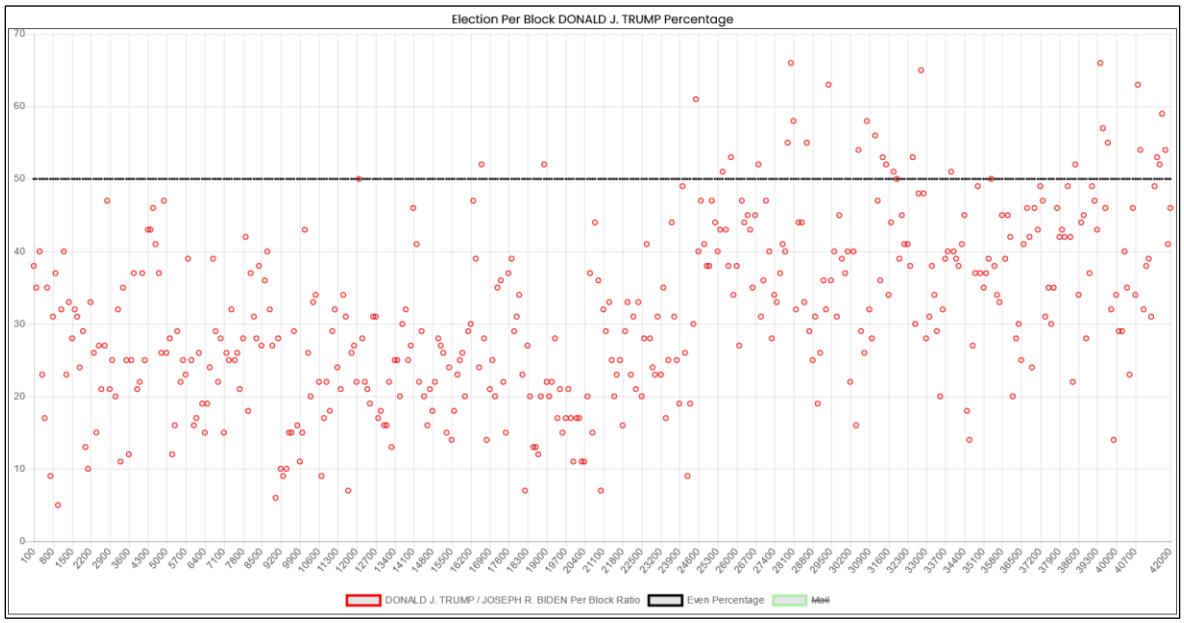
  The California official results report 43,340 ballots cast for president, and the Cast Vote Record reports 43,361. Thus, the Mendocino County Cast Vote Record contains 21 more ballots than the official results.

  According to the Cast Vote Record, President Trump lost this county with 30.8% to Joseph Biden's 66.4%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.25 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the rise as the counting proceeds.



BALLOTS PROCESSED BY DATE

Because the county supplied its Cast Vote Record in individual xml files, the dates those files were created can be used to determine when most ballots were processed. The numbers can be compared with official records. Each line shows the ballots processed, the Trump and Biden votes counted on that day, and the day's percentage for each of the candidates.

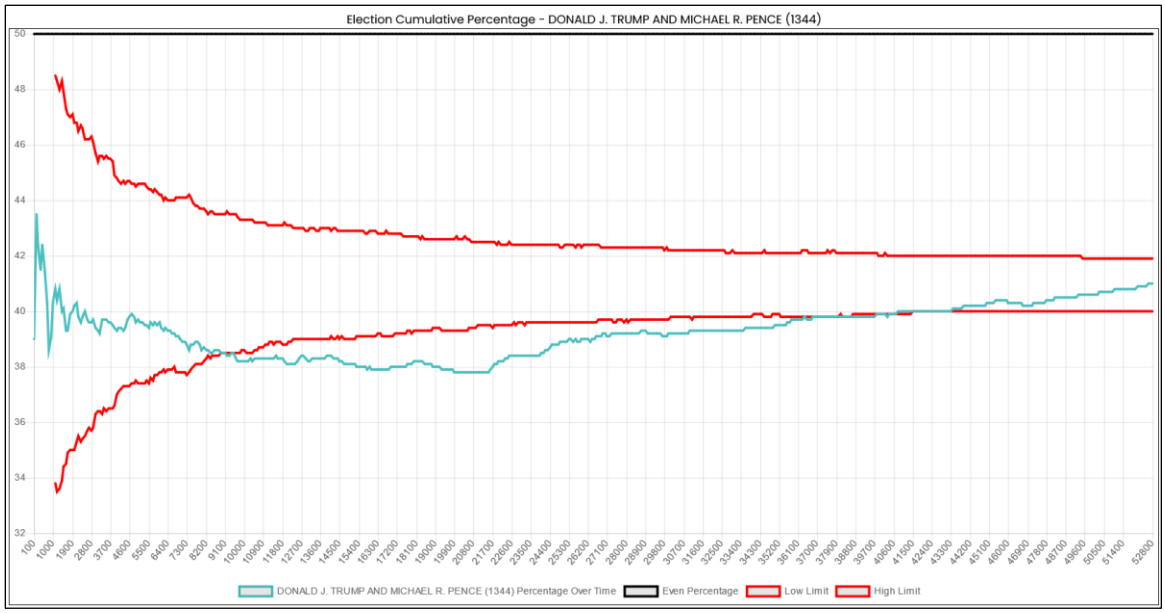
Date	Total	Trump	Biden	Trump %	Biden %
11/3/2020	25,188	6,321	18,306	25.1%	72.7%
11/13/2020	10,799	4,099	6,247	38.0%	57.8%
11/23/2020	7,372	2,862	4,230	38.8%	57.4%
11/24/2020	1	0	1	0.0%	100.0%
11/25/2020	1	0	1	0.0%	100.0%
Total	43,361	13,282	28,785	30.6%	66.4%

- **Merced County**
  Vendor: Election Systems & Software

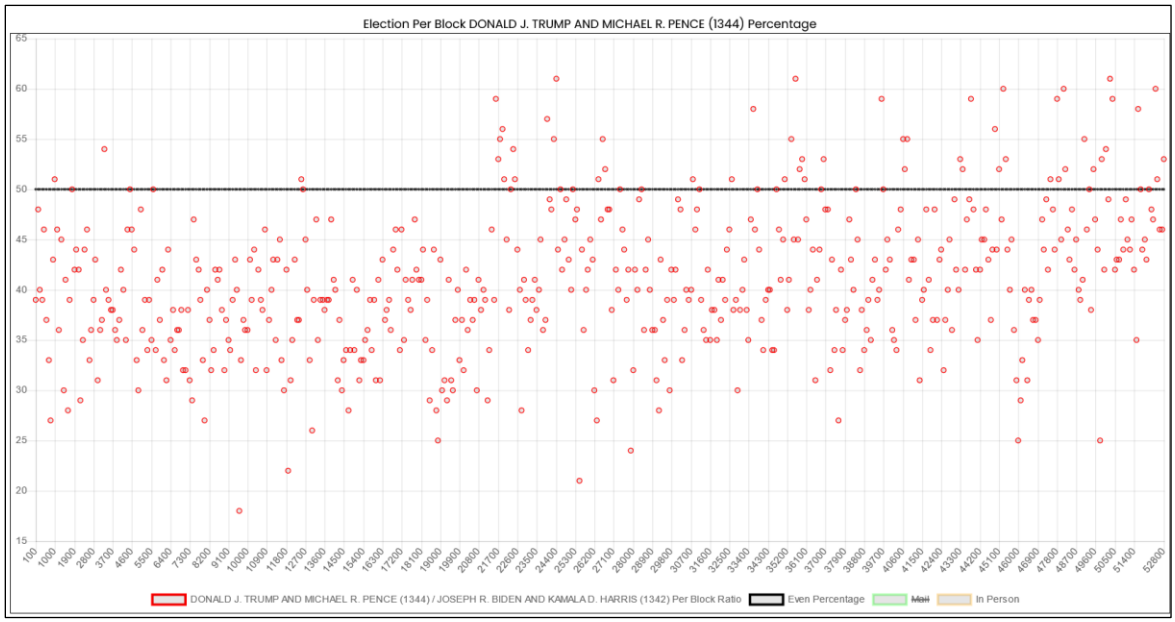
  The California official results report 90,554 ballots cast for president, and the Cast Vote Record reports 90,542. Thus, **12** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 42.8% to Joseph Biden's 53.3%.

  Plotting the mail-in votes in sequence shows a rise similar to the Mesa Pattern, but not nearly as dramatic, with a back half rise of 1.05 in favor of President Trump. The percentage plot between 9,500 and about 35,000 votes is below the red cone, indicating that the vote pattern is unnatural.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows that the frequency of blocks favorable to President Trump were far more prevalent in the latter 60% of the counting than the first 40%.

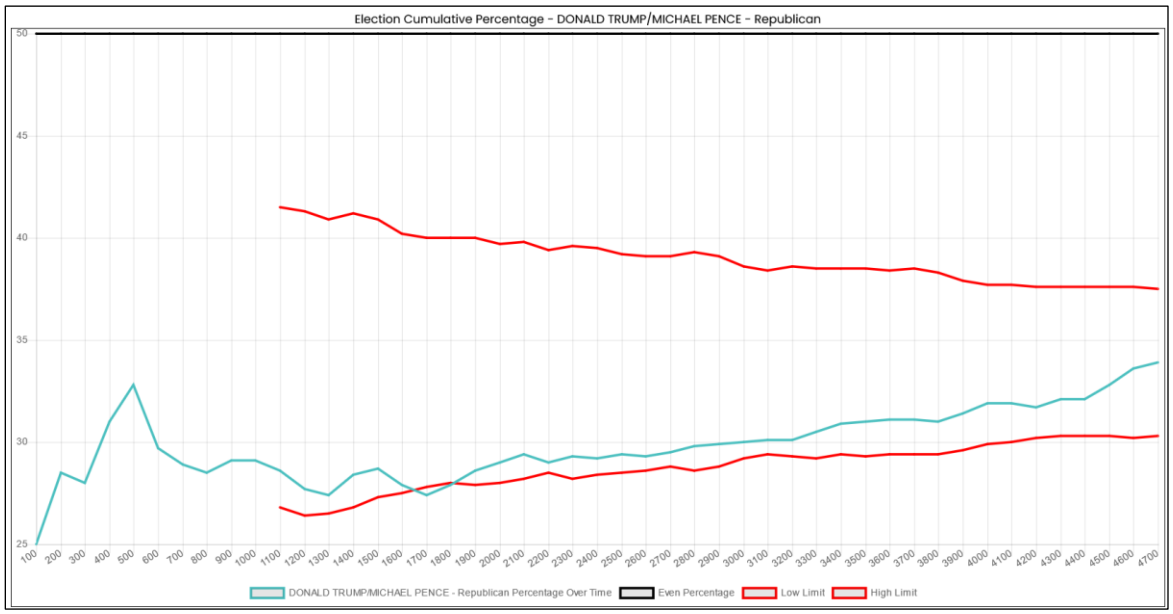


- **Mono County**
  Vendor: Dominion Voting Systems

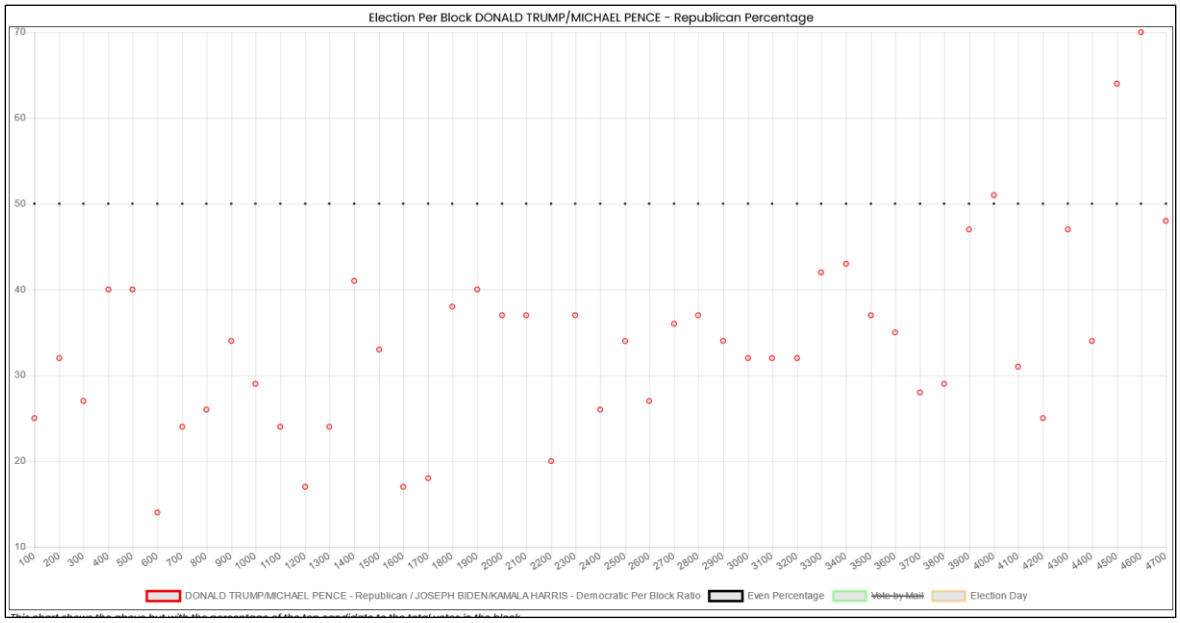
  The California official results report 6,738 ballots cast for president, and the Cast Vote Record reports 5,838. Thus, **900** ballots were redacted. This is high for such a small county.

  According to the Cast Vote Record, President Trump lost this county with 37.1% to Joseph Biden's 59.9%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump. The percentage plot, however, is within the red cones for most of the counting.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

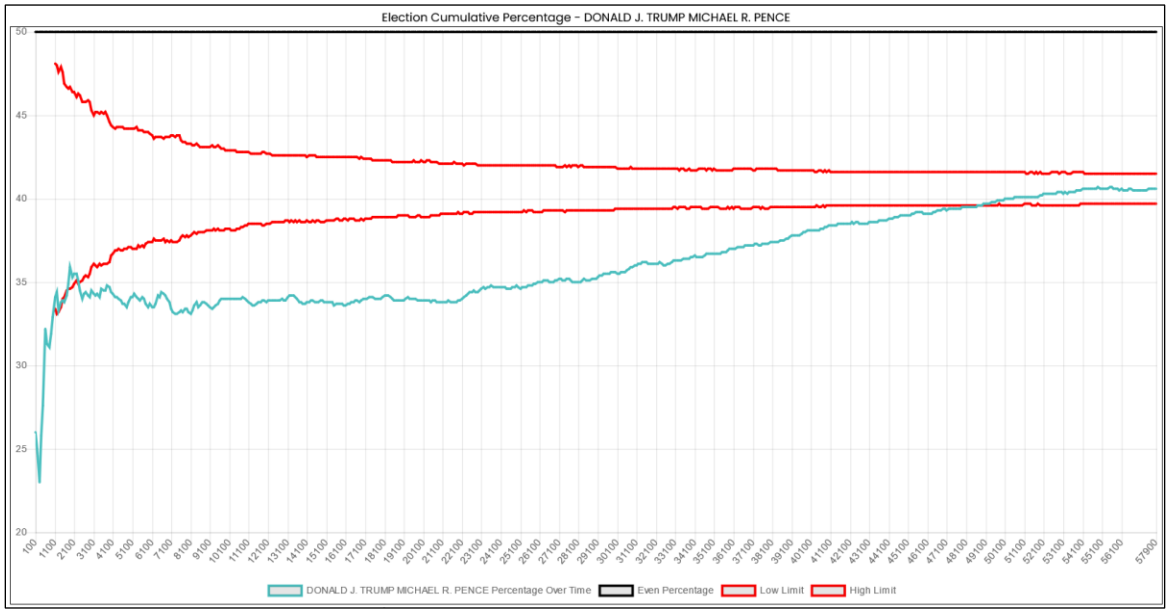


- **Nevada County**
  Vendor: Hart Intercivic

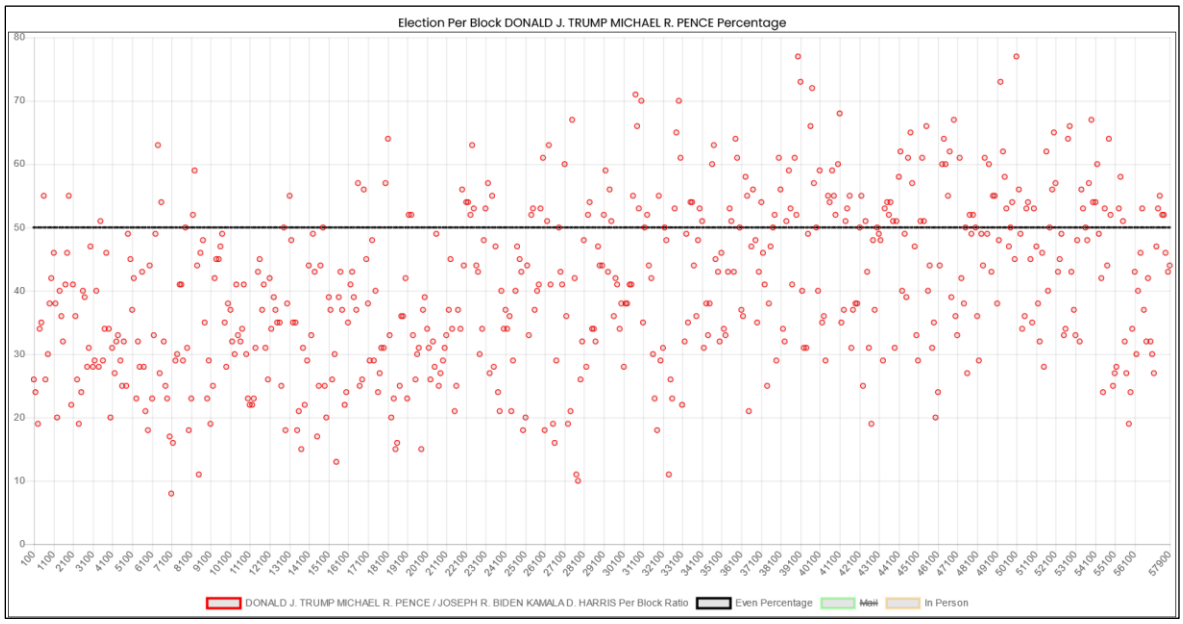
  The California official results report 64,750 ballots cast for president, and the Cast Vote Record reports 64,760. Thus, **the Nevada County CVR contained 10 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 41.4% to Joseph Biden's 56.2%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.15 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.



BALLOTS PROCESSED BY DATE

Because the county supplied its Cast Vote Record in individual xml files, the dates those files were created can be used to determine when most ballots were processed. The numbers can be compared with official records. Each line shows the ballots processed, the Trump and Biden votes counted on that day, and the day's percentage for each of the candidates. Dates before the election counting period are not easily explainable.

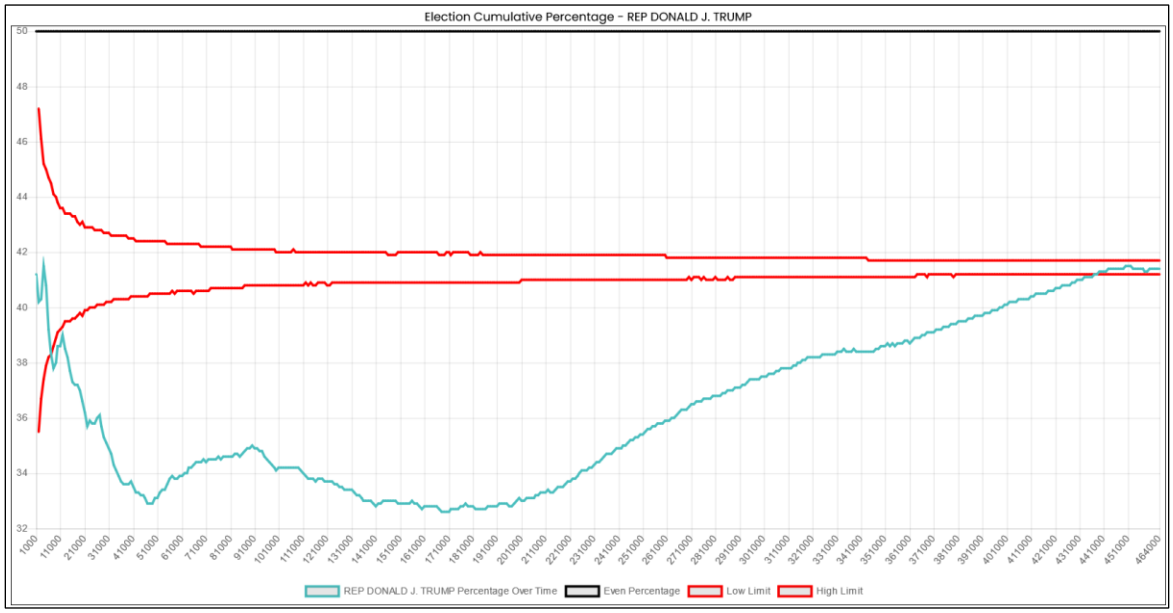
Date	Total	Trump	Biden	Trump %	Biden %
1/1/2020	5,245	3,268	1,976	62%	38%
11/3/2020	24,539	8,434	15,893	34%	65%
11/6/2020	9,925	4,019	5,736	40%	58%
11/10/2020	13,974	6,343	7,268	45%	52%
11/13/2020	8,115	3,805	4,100	47%	51%
11/17/2020	1,180	452	814	38%	69%
11/20/2020	937	437	561	47%	60%
11/24/2020	55	26	28	47%	51%

- **<u>Orange County</u>**
  Vendor: Hart Intercivic

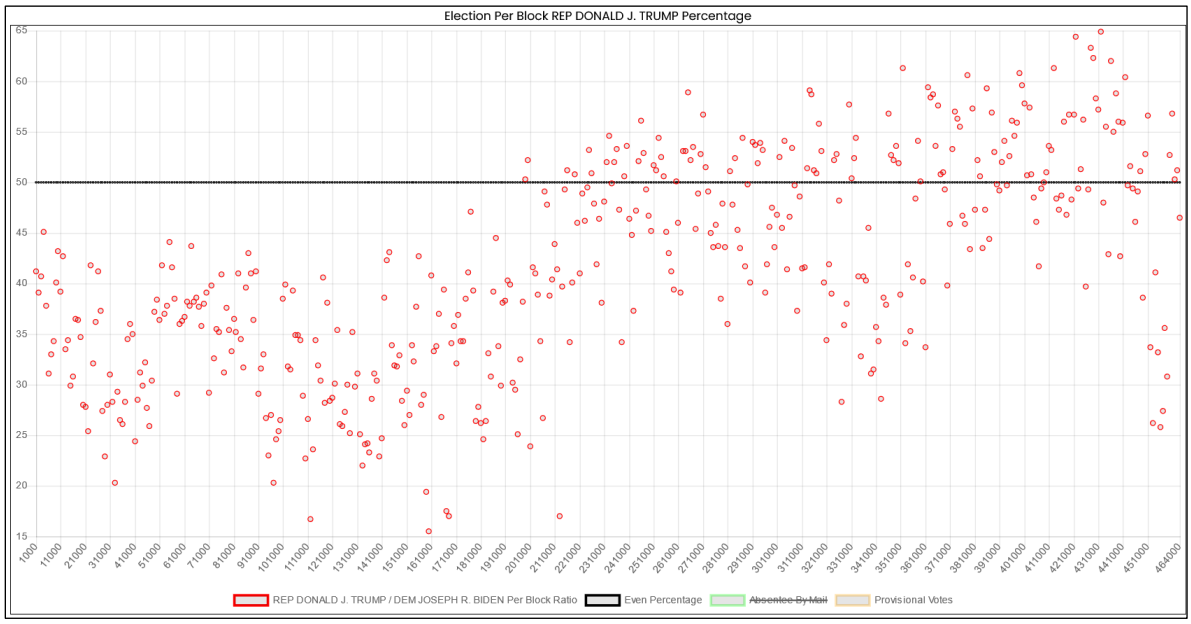
  The California official results report 1,522,113 ballots cast for president, and the Cast Vote Record reports 1,522,203. Thus, **the Orange County Cast Vote Record contains 90 more ballots than the official results**.

  According to the Cast Vote Record, President Trump lost this county with 44.4% to Joseph Biden's 53.5%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.19 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 10,000 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the tail-off in the last few blocks.



BALLOTS PROCESSED BY DATE

Because the county supplied its Cast Vote Record in individual xml files, the dates those files were created can be used to determine when most ballots were processed. The numbers can be compared with official records. Each line shows the ballots processed, the Trump and Biden votes counted on that day, and the day's percentage for each of the candidates. Dates before the election counting period are not easily explainable.

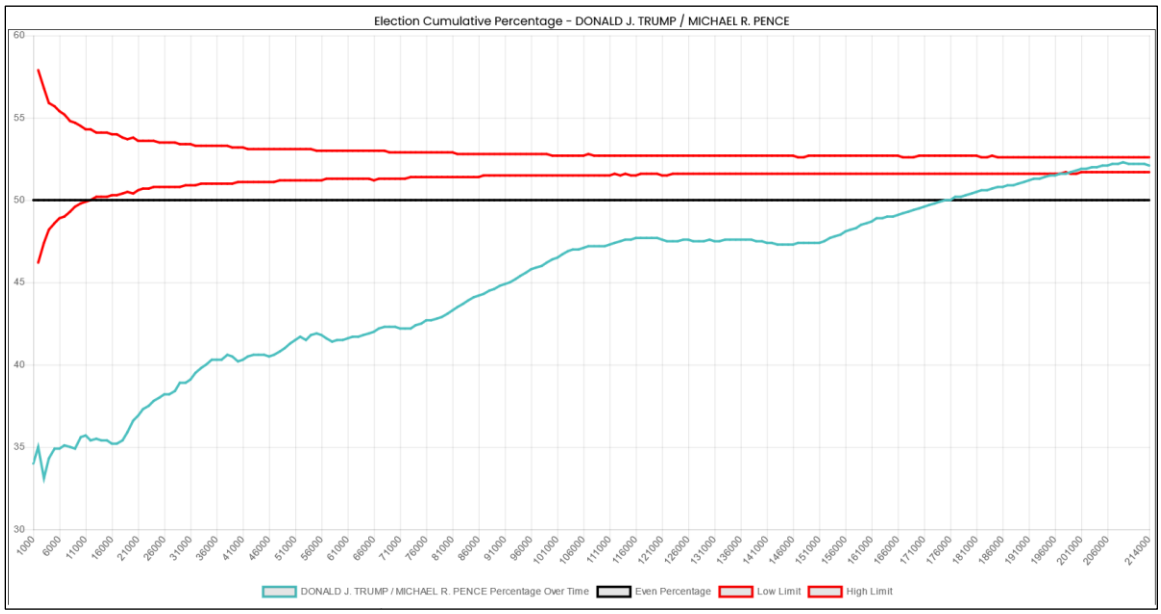
Date	Total	Trump	Biden	Trump %	Biden %
1/1/2009	5	2	3	40.0%	60.0%
12/31/2019	1,348	743	570	55.1%	42.3%
1/1/2020	256,881	173,765	78,764	67.6%	30.7%
10/26/2020	531,475	171,523	351,166	32.3%	66.1%
11/1/2020	295,369	122,106	167,344	41.3%	56.7%
11/3/2020	186,691	93,649	89,003	50.2%	47.7%
11/4/2020	13,413	7,003	6,116	52.2%	45.6%
11/5/2020	60,353	28,810	29,813	47.7%	49.4%
11/6/2020	74,790	33,187	38,996	44.4%	52.1%
11/7/2020	59,693	25,547	31,634	42.8%	53.0%
11/9/2020	5,252	2,711	2,412	51.6%	45.9%
11/10/2020	11,857	5,372	6,114	45.3%	51.6%
11/11/2020	6,446	2,751	3,478	42.7%	54.0%
11/12/2020	6,308	3,210	2,949	50.9%	46.8%
11/13/2020	3,740	1,885	1,782	50.4%	47.6%
11/14/2020	4,171	2,101	1,955	50.4%	46.9%
11/16/2020	2,071	1,135	873	54.8%	42.2%
11/17/2020	795	467	311	58.7%	39.1%
11/18/2020	187	64	120	34.2%	64.2%
11/19/2020	704	250	441	35.5%	62.6%
11/20/2020	467	244	212	52.2%	45.4%
11/21/2020	24	13	11	54.2%	45.8%
11/23/2020	108	48	56	44.4%	51.9%
11/24/2020	49	18	31	36.7%	63.3%
11/25/2020	6	2	4	33.3%	66.7%

- **Placer County**
  Vendor: Dominion Voting Systems

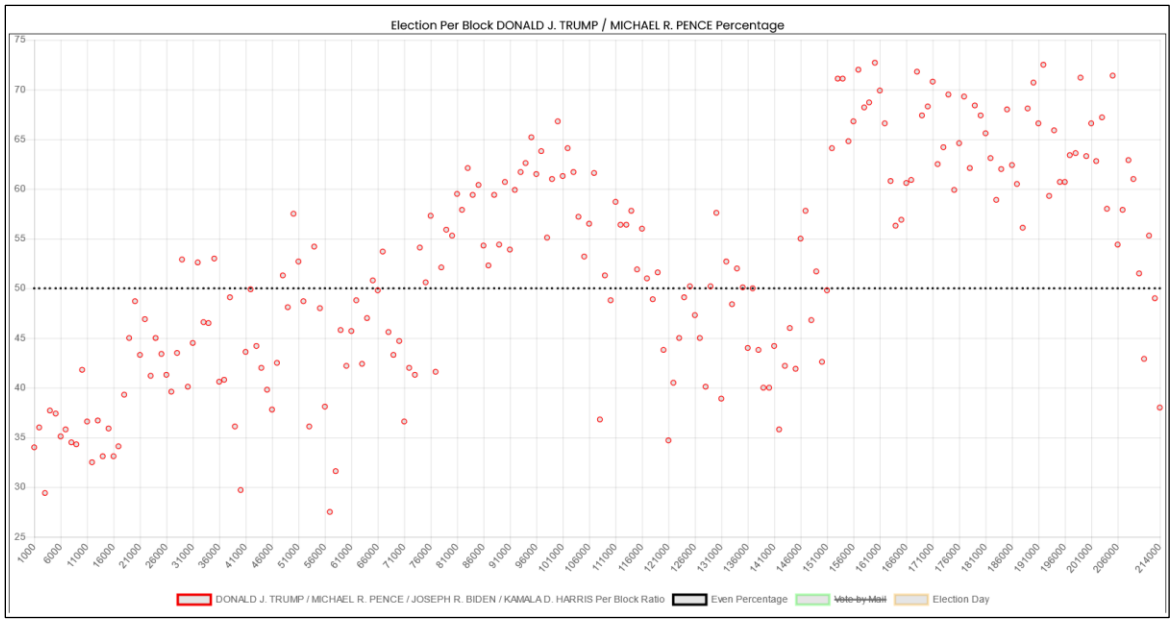
  The California official results report 235,084 ballots cast for president, and the Cast Vote Record reports 235,084. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 52.1% to Joseph Biden's 45.5%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.10 in favor of President Trump. However, Placer shows what look like several "corrections" in the latter half of the percentage plot.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds to the halfway point, followed by what look like three alternating groups of votes with very different characteristics.

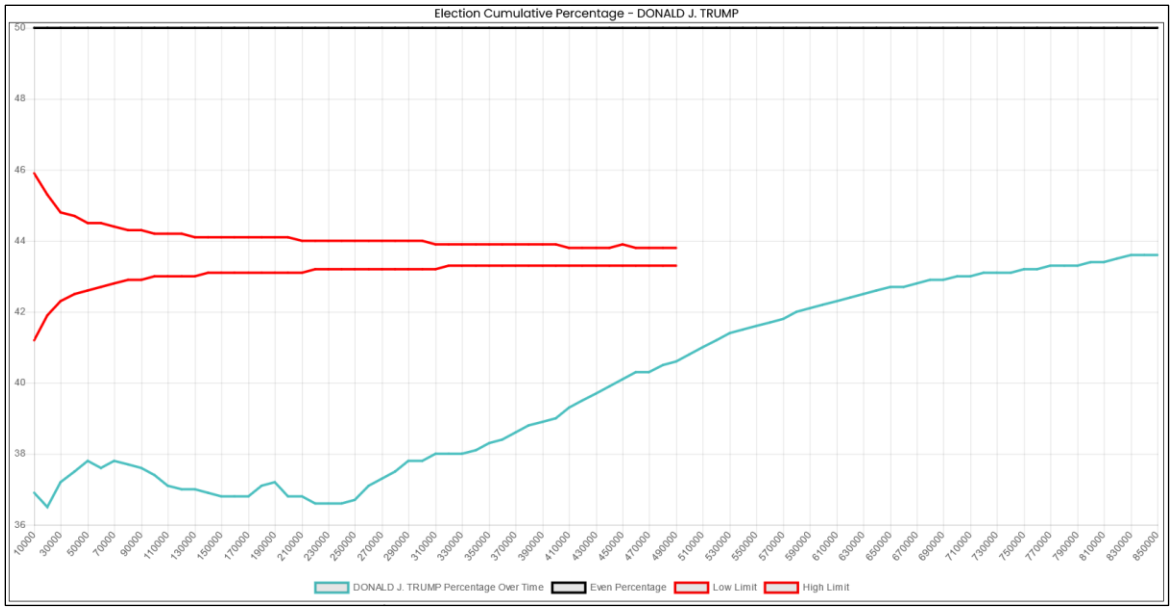


- **Riverside County**
  Vendor: Dominion Voting Systems

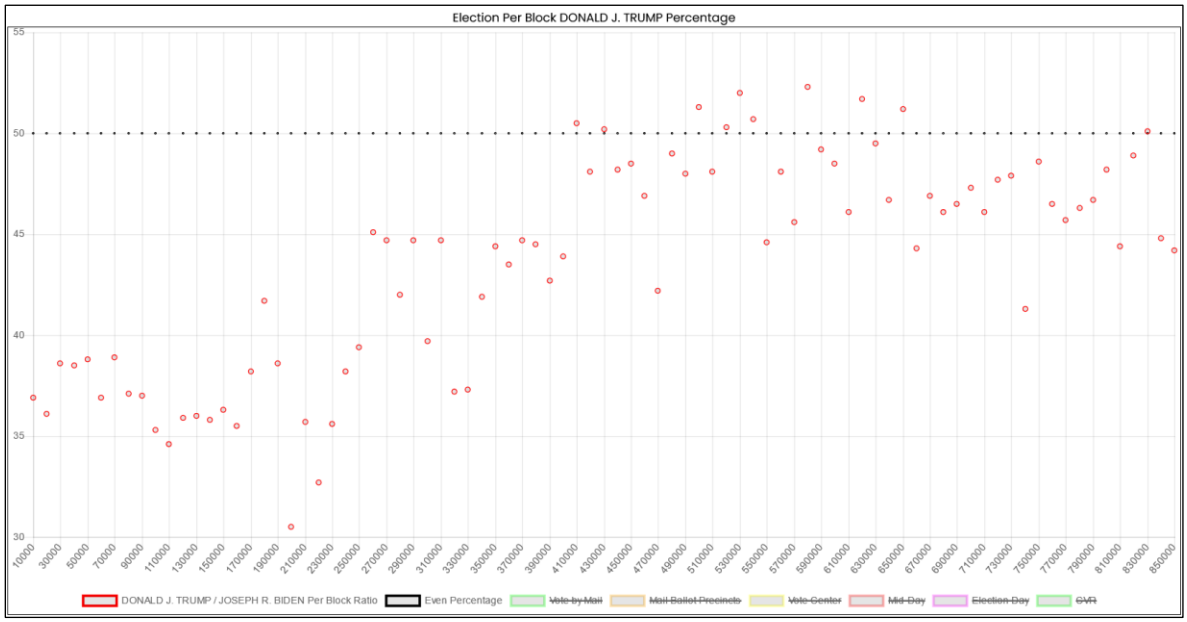
  The California official results report 997,156 ballots cast for president, and the Cast Vote Record reports 997,156. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 45.0% to Joseph Biden's 53.0%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.10 in favor of President Trump. Please note that the red possible range cone is only calculated to 500,000 votes. The red lines would continue to converge as the number of votes increase.



  Plotting the percentage of votes for President Trump of every distinct 10,000 mail-in votes clearly shows the gradual rise as the counting proceeds. There is a tail-off at the end portion.



- **Sacramento County**
  Vendor: Dominion Voting Systems

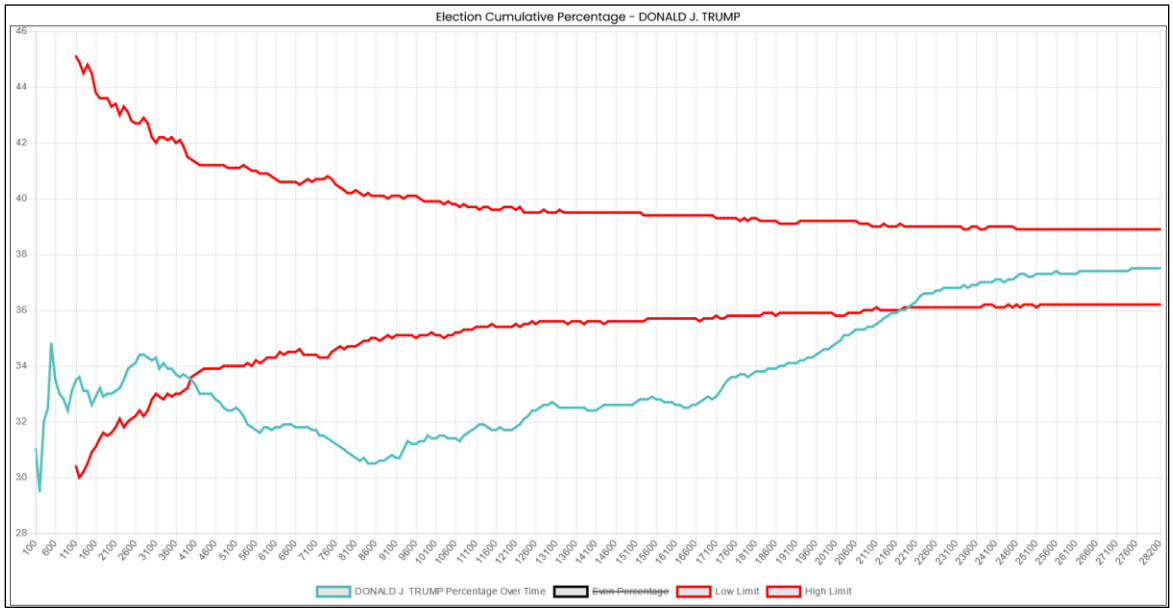
  The California official results report 718,440 ballots cast for president, and the Cast Vote Record reports 79,475. Thus, **the Sacramento County Cast Vote Record is missing over 650,000 records and is incomplete. As such, no analysis can be performed. The reasons behind this serious issue should be investigated.**

- **<u>San Benito County</u>**
  Vendor: Dominion Voting Systems

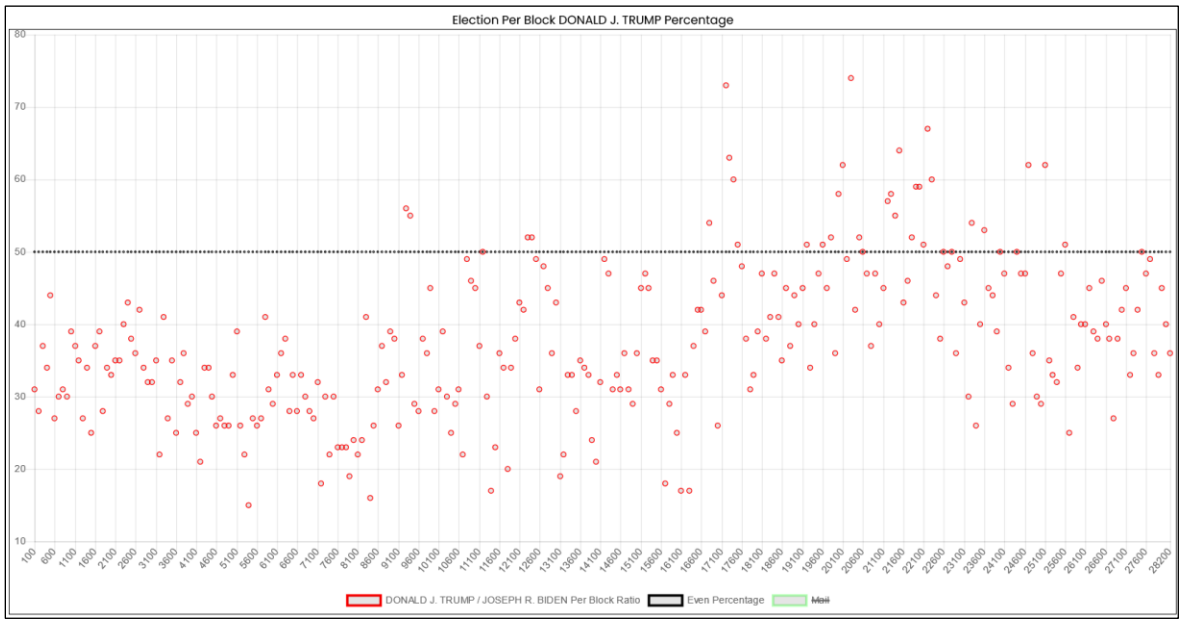
  The California official results report 28,830 ballots cast for president, and the Cast Vote Record reports 28,830. Thus, no ballots were redacted. San Benito deliberately redacted the precinct id from the Cast Vote Record.

  According to the Cast Vote Record, President Trump lost this county with 36.7% to Joseph Biden's 61.1%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

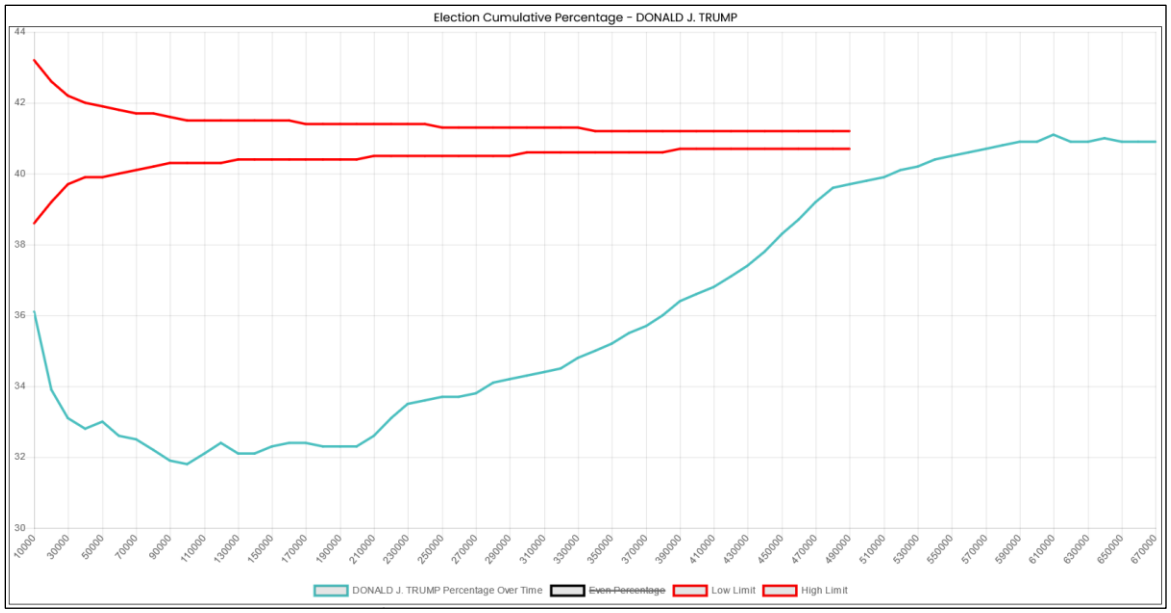


- **<u>San Bernardino County</u>**
  Vendor: Dominion Voting Systems

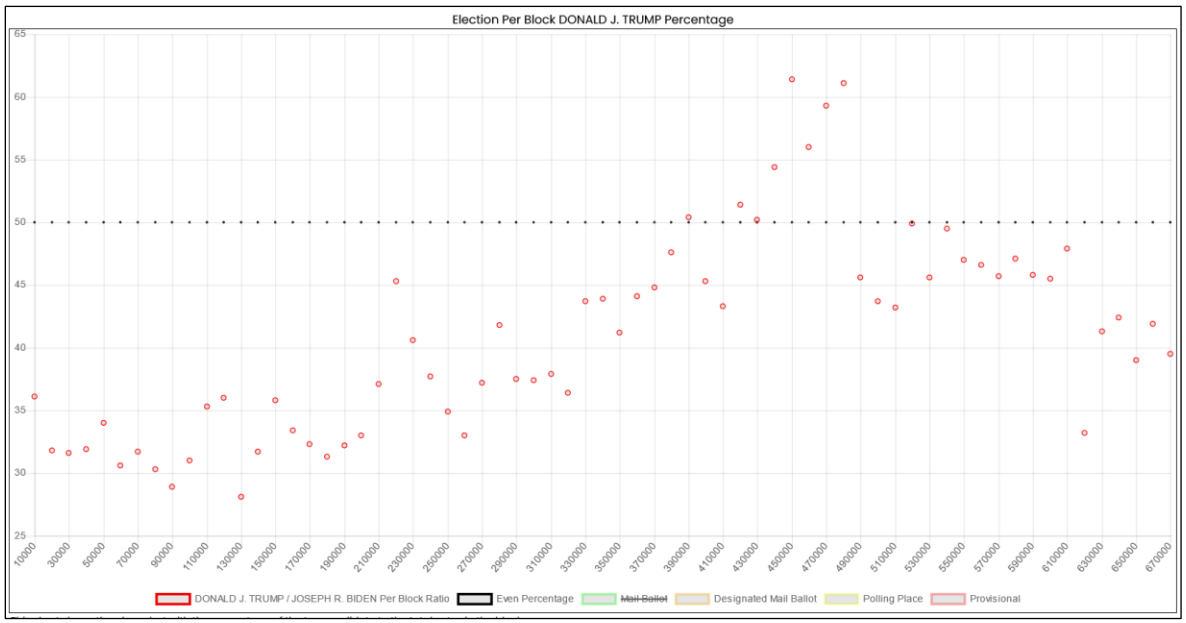
  The California official results report 841,130 ballots cast for president, and the Cast Vote Record reports 842,438. Thus, **the San Bernardino County Cast Vote Record contains 1,360 more votes than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 43.3% to Joseph Biden's 53.9%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.18 in favor of President Trump. Please note that the red possible range cone is only calculated to 500,000 votes. The red lines would continue to converge as the number of votes increase.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds until a precipitous drop in the final quarter.



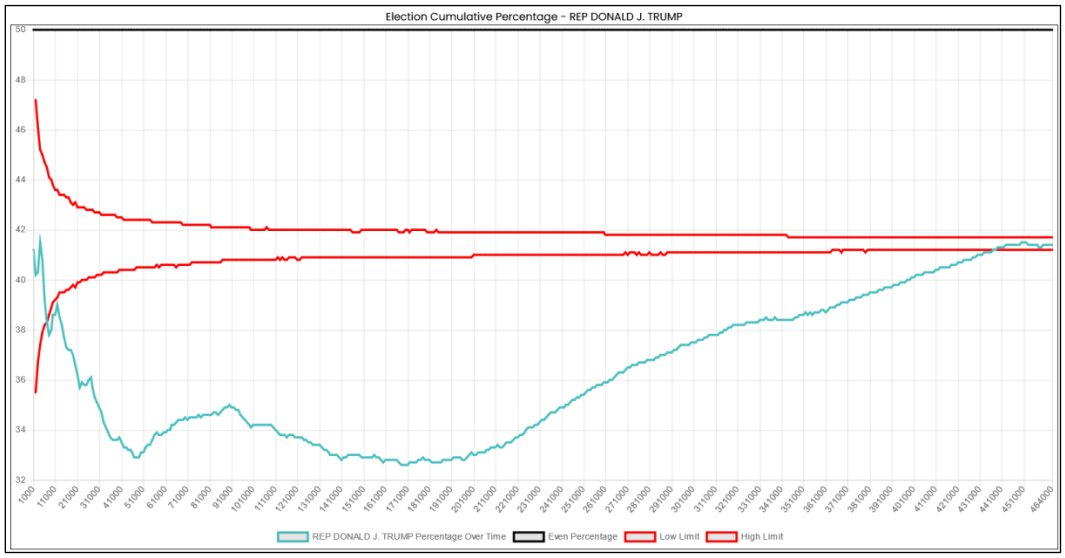
- **<u>San Diego County</u>**
  Vendor: Dominion Voting Systems

  San Diego provided five separate Cast Vote Record files, all seemingly self-contained. All have Cast Vote Record numbers beginning with 1, so no sequence of votes of the whole can be determined. The reason for this separation is unknown, as each contains records of ballots from numerous non-sequential tabulators.

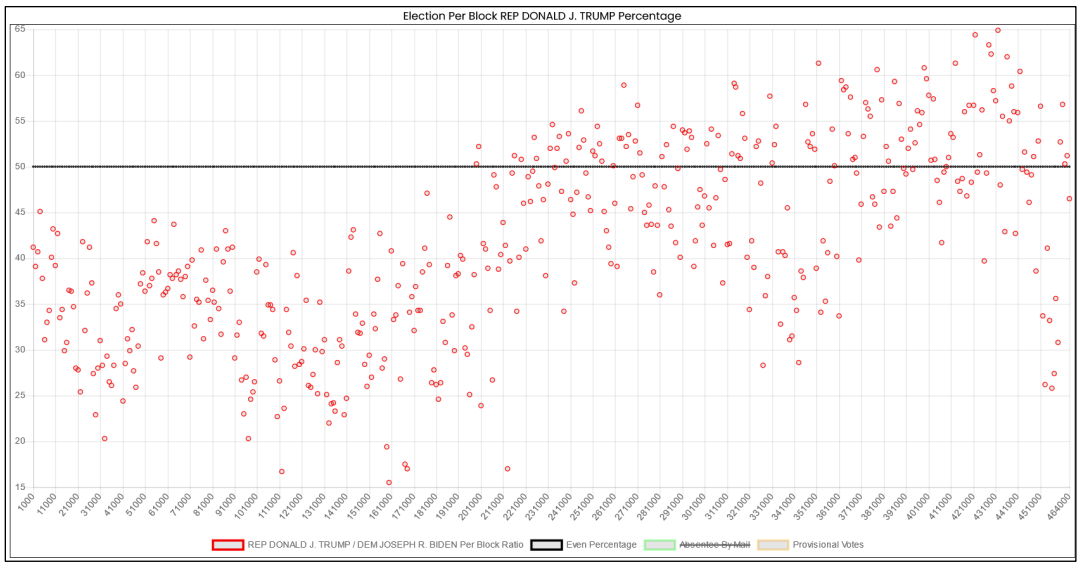
  The California official results report 770,070 ballots cast for president. Because of the way that the Cast Vote Record was presented, it is not possible to determine the total numbers of votes within them.

  According to the Cast Vote Record, President Trump lost this county with 40.5% to Joseph Biden's 56.7%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.19 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

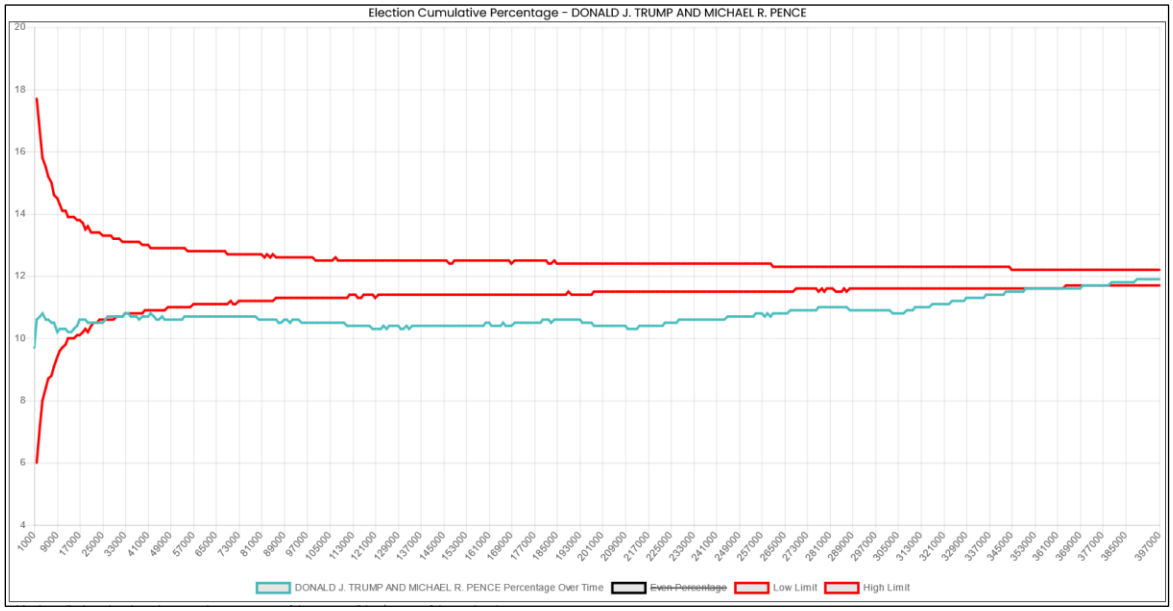


- **<u>San Francisco County</u>**
  Vendor: Dominion Voting Systems

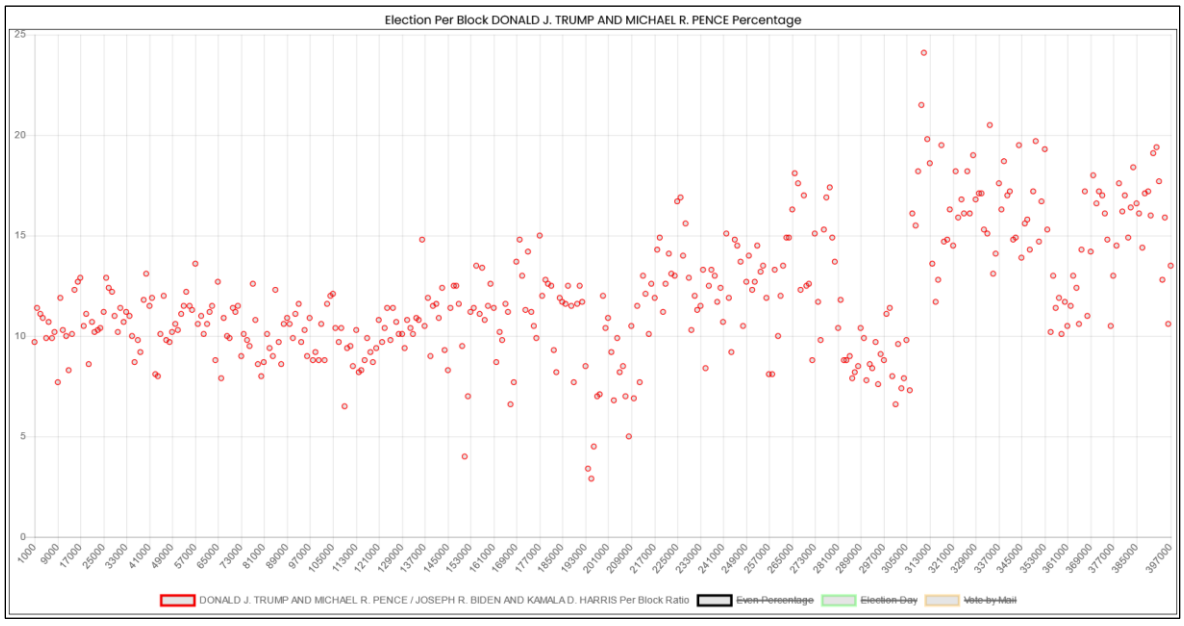
  The California official results report 443,553 ballots cast for president, and the Cast Vote Record reports 444,750. Thus, **the San Francisco County Cast Vote Record contains 1,197 more votes than the official results**.

  According to the Cast Vote Record, President Trump lost this county with 12.6% to Joseph Biden's 84.9%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.14 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise and "widening" as the counting proceeds.



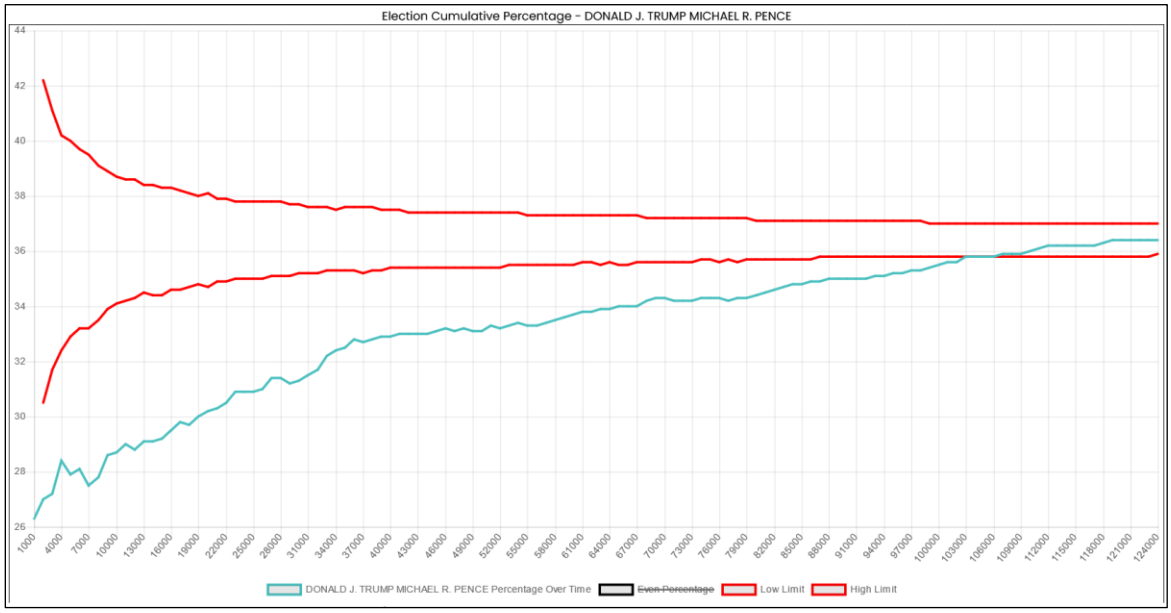
- **San Joaquin County**
  Vendor: Hart Intercivic

  The California official results report 288,492 ballots cast for president, and the Cast Vote Record reports 288,801. Thus, **the San Joaquin County Cast Vote Record contained 309 more ballots than the official results.**

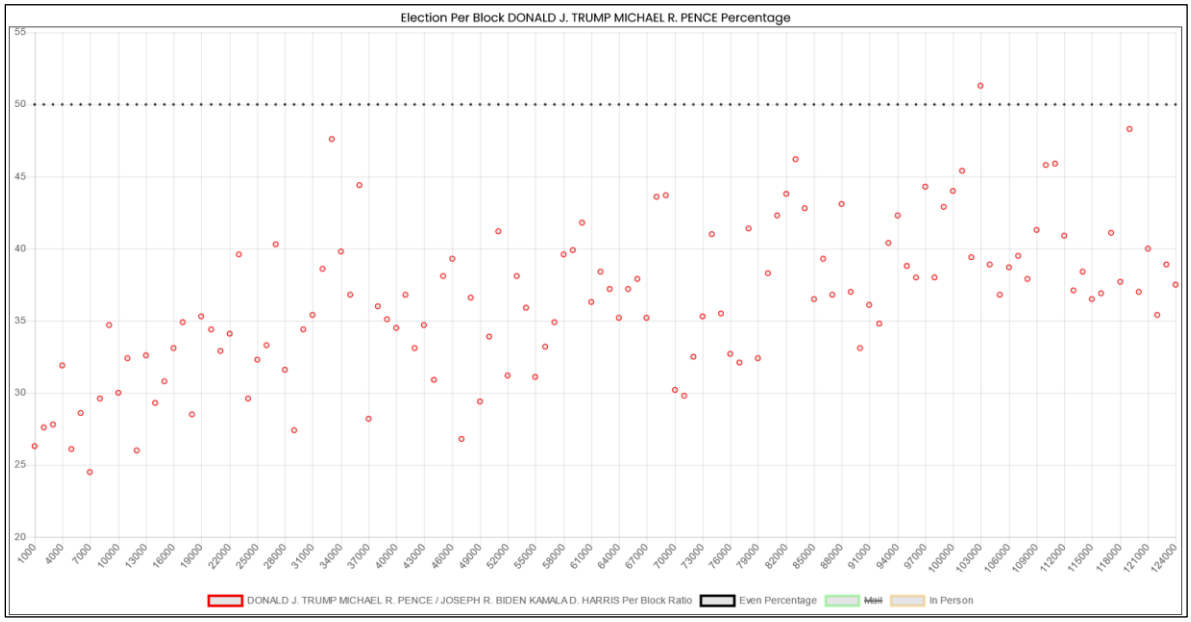
  Because of the organization and data provided by the Cast Vote Record, only ballots which are certain to be mail-in ballots are included in this analysis. These represent the initial 127,100 ballots counted (approximately). There may be additional mail-in ballots, but they cannot be identified with any degree of certainty. The back half rise indicated below might actually be slightly higher.

  According to the Cast Vote Record, President Trump lost this county with 42.0% to Joseph Biden's 55.9%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.08 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.



BALLOTS PROCESSED BY DATE

Because the county supplied its Cast Vote Record in individual xml files, the dates those files were created can be used to determine when most ballots were processed. The numbers can be compared with official records. Each line shows the ballots processed, the Trump and Biden votes counted on that day, and the day's percentage for each of the candidates. Dates before the election counting period are not easily explainable.

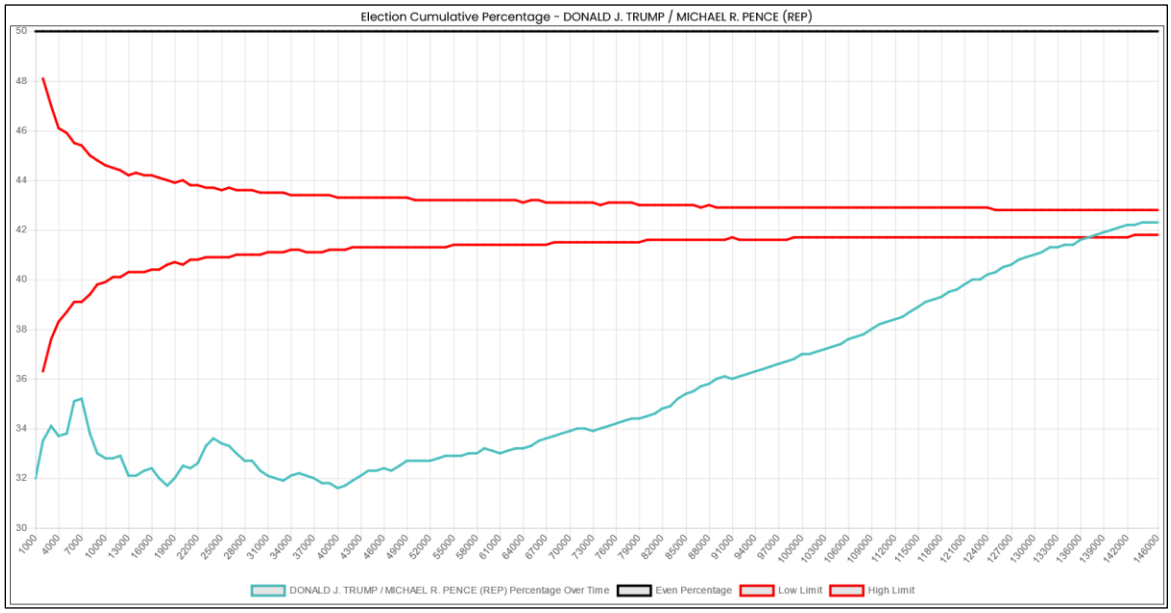
Date	Total	Trump	Biden	Trump %	Biden %
1/1/2020	5,386	3,268	1,976	60.7%	36.7%
11/3/2020	24,712	8,434	15,893	34.1%	64.3%
11/6/2020	10,032	4,019	5,736	40.1%	57.2%
11/10/2020	14,065	6,343	7,268	45.1%	51.7%
11/13/2020	8,176	3,805	4,100	46.5%	50.1%
11/17/2020	1,293	452	814	35.0%	63.0%
11/20/2020	1,040	437	561	42.0%	53.9%
11/24/2020	56	26	28	46.4%	50.0%
Total	64,760	26,784	36,376	41.4%	56.2%

- **<u>San Luis Obispo County</u>**
  Vendor: Dominion Voting Systems

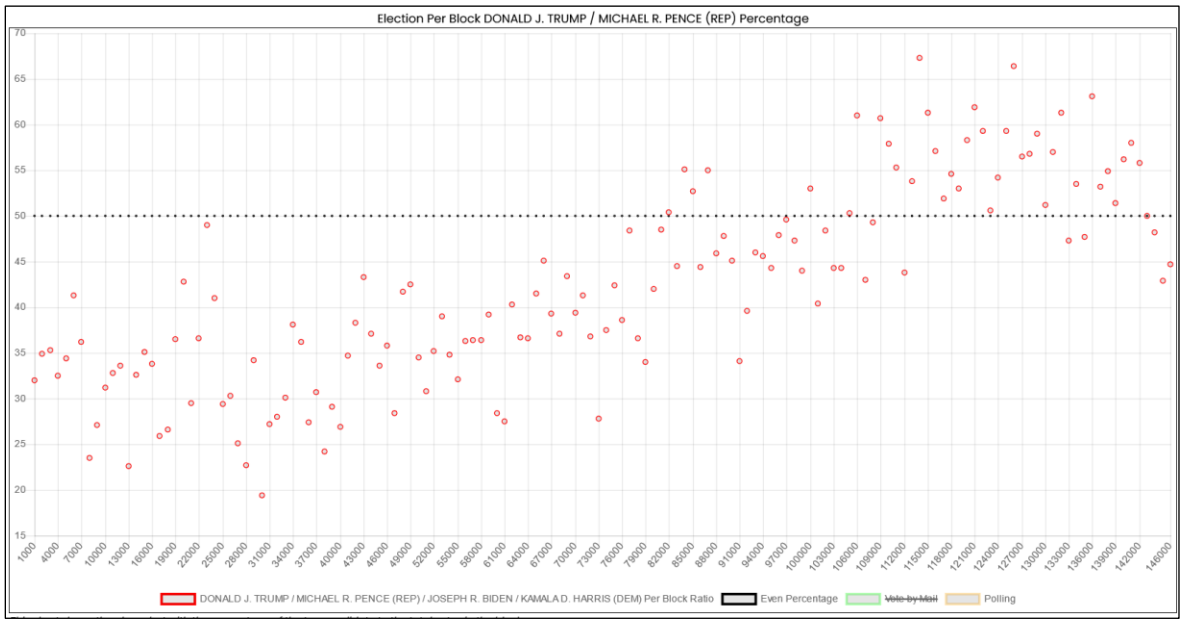
  The California official results report 159,714 ballots cast for president, and the Cast Vote Record reports 159,681. Thus, **33** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 42.2% to Joseph Biden's 55.3%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.25 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

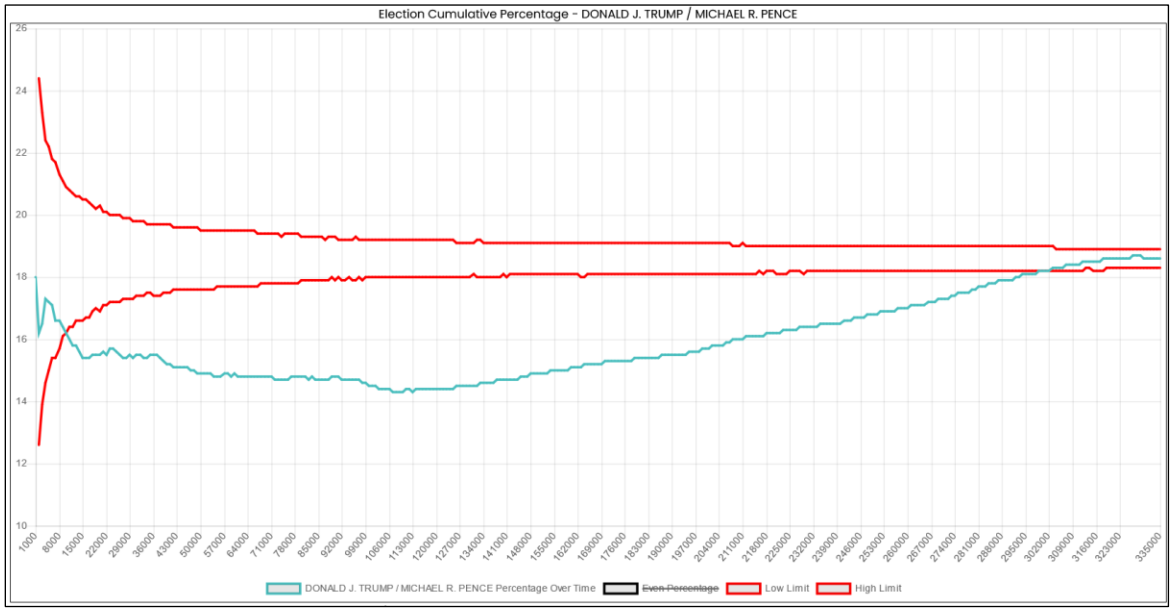


- **<u>San Mateo County</u>**
  Vendor: Dominion Voting Systems

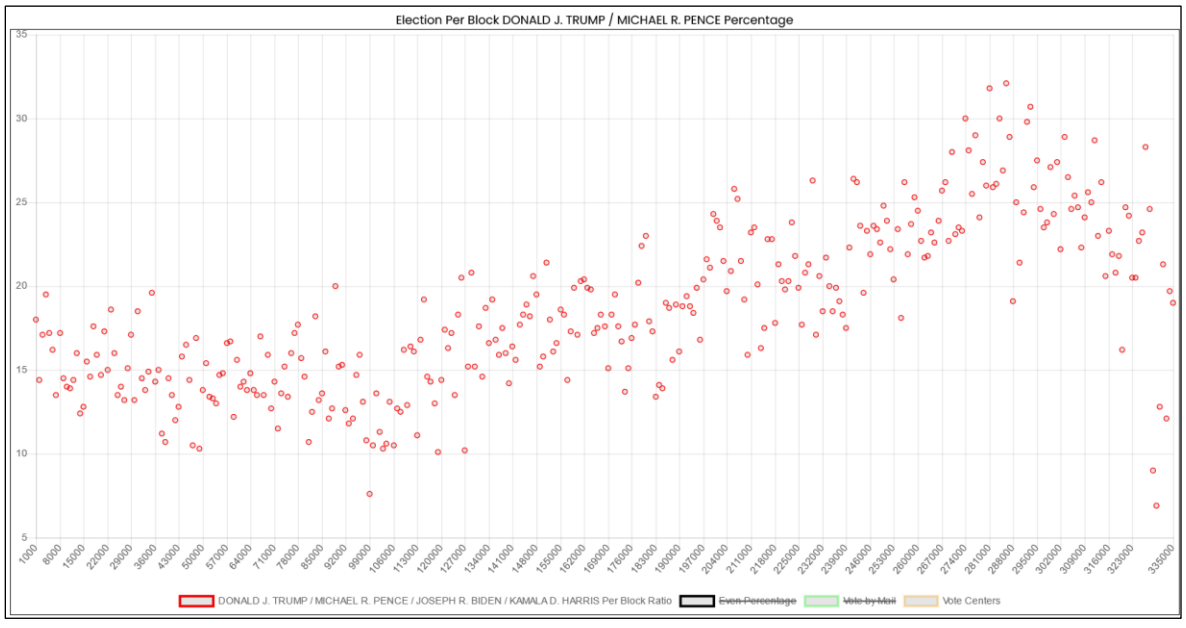
  The California official results report 374,251 ballots cast for president, and the Cast Vote Record reports 374,251. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 20.2% to Joseph Biden's 77.9%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.22 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the extreme tail-off at the end.

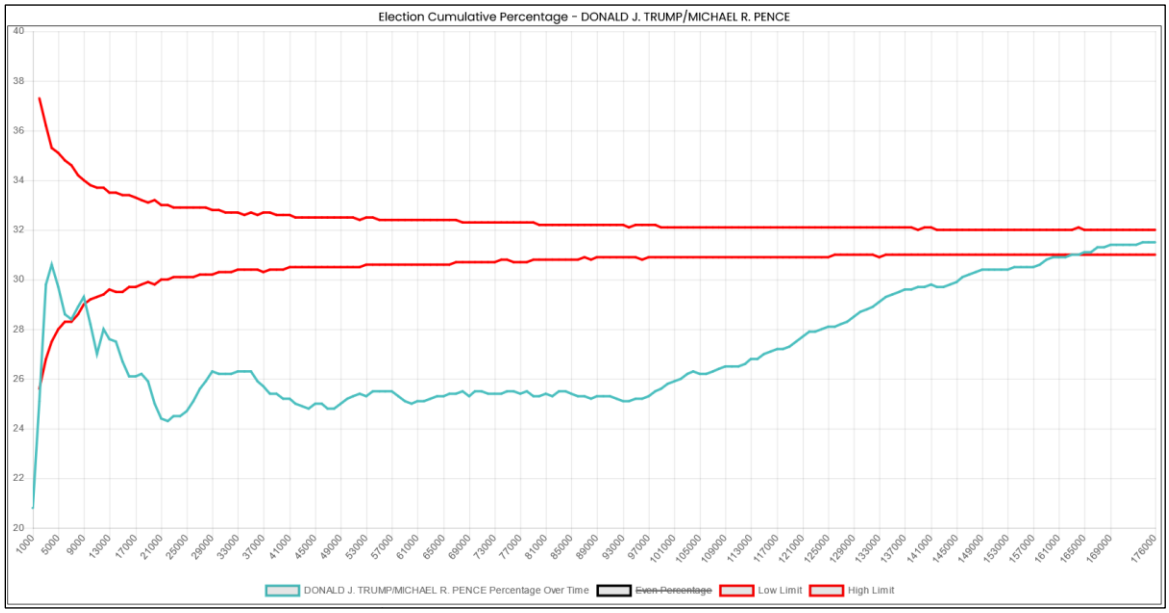


- **<u>Santa Barbara County</u>**
  Vendor: Dominion Voting Systems

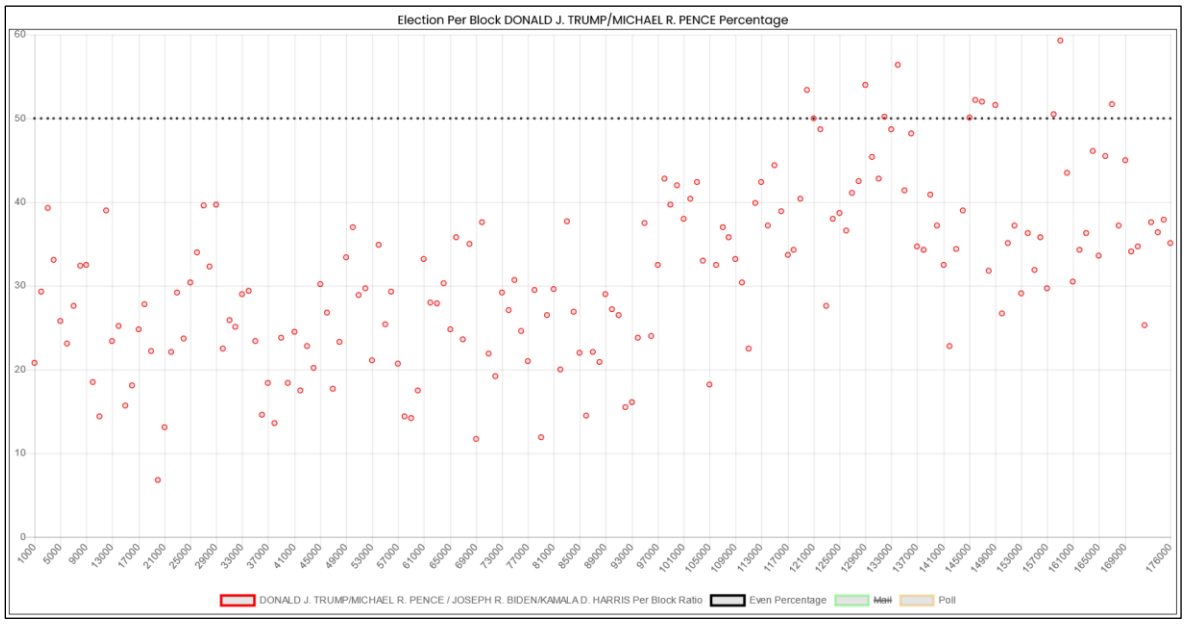
  The California official results report 200,339 ballots cast for president, and the Cast Vote Record reports 201,432. Thus, **the Santa Barbara Cast Vote Record contains 1,093 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 32.6% to Joseph Biden's 64.5%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.25 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

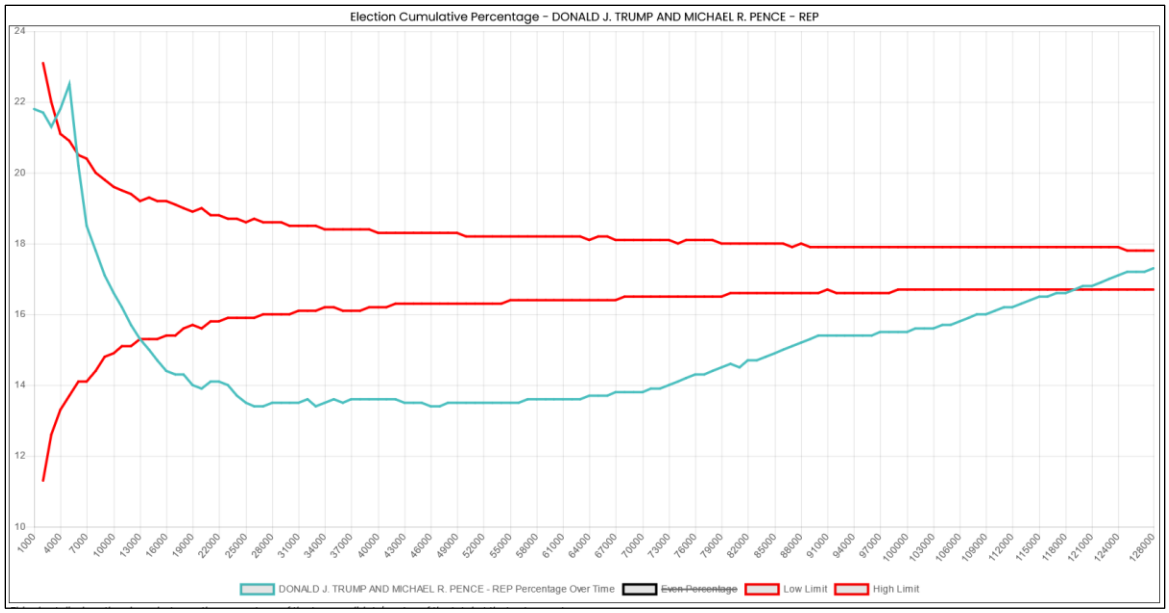


- **<u>Santa Cruz County</u>**
  Vendor: Dominion Voting Systems

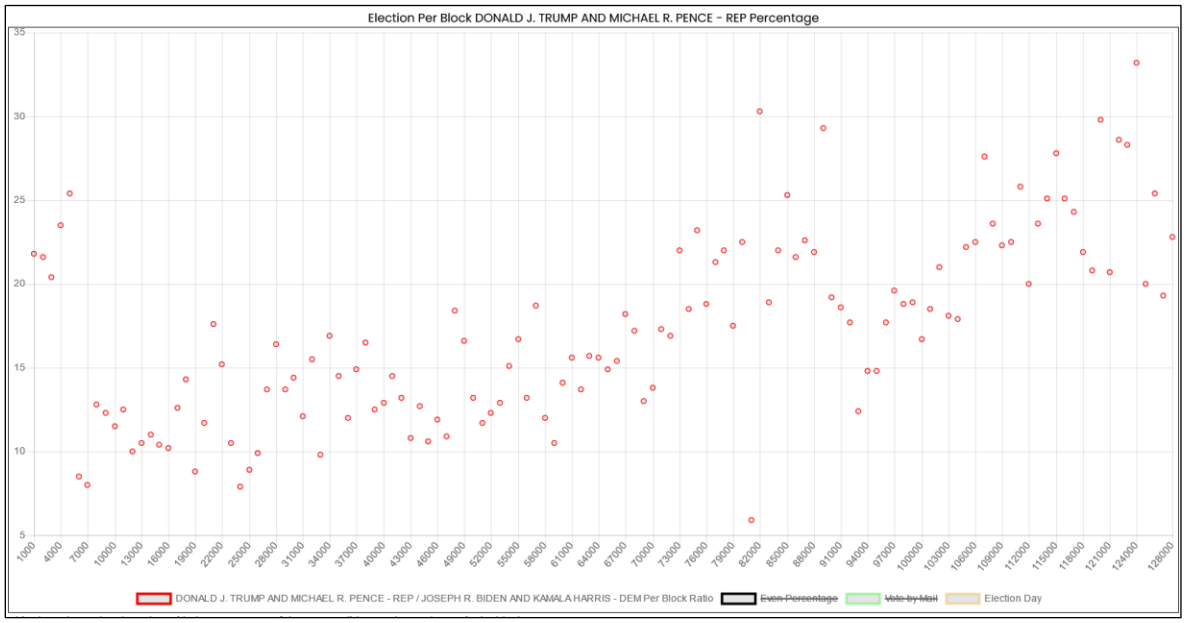
  The California official results report 144,837 ballots cast for president, and the Cast Vote Record reports 144,837. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 18.5% to Joseph Biden's 78.4.7%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.27 in favor of President Trump. This county shows something a bit different in that President Trump's percentage plot starts very high within the first 4000 ballots, compared to the ending percentage.



Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. Again, see the initial five vote blocks, which do not fit the normal pattern. An analysis of those first 5,000 ballots is indicated.

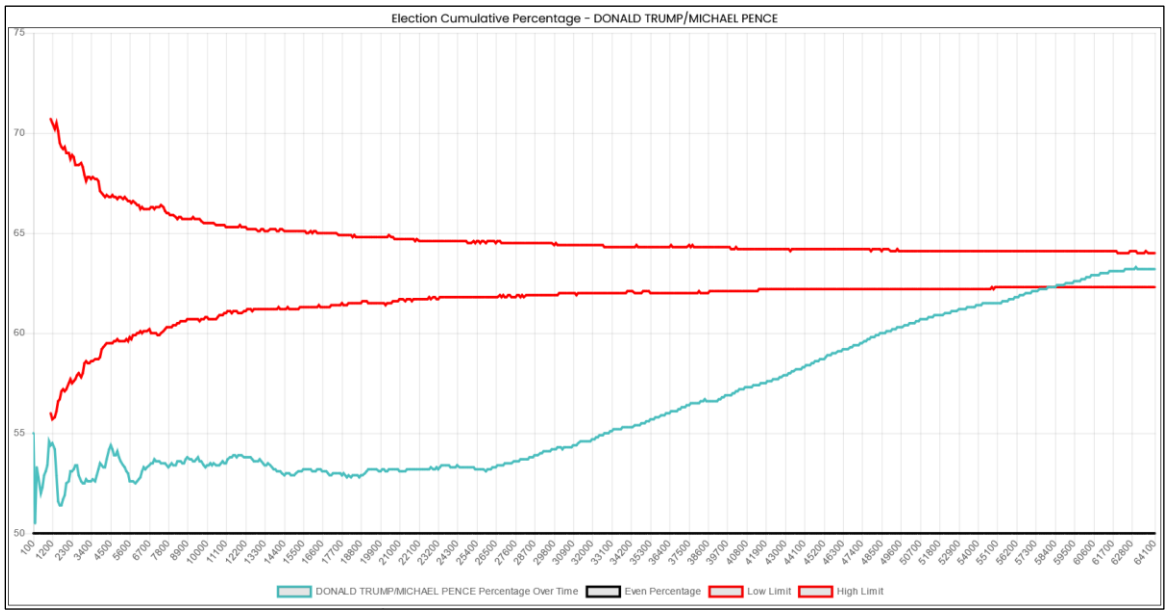


- **Shasta County**
  Vendor: Dominion Voting Systems

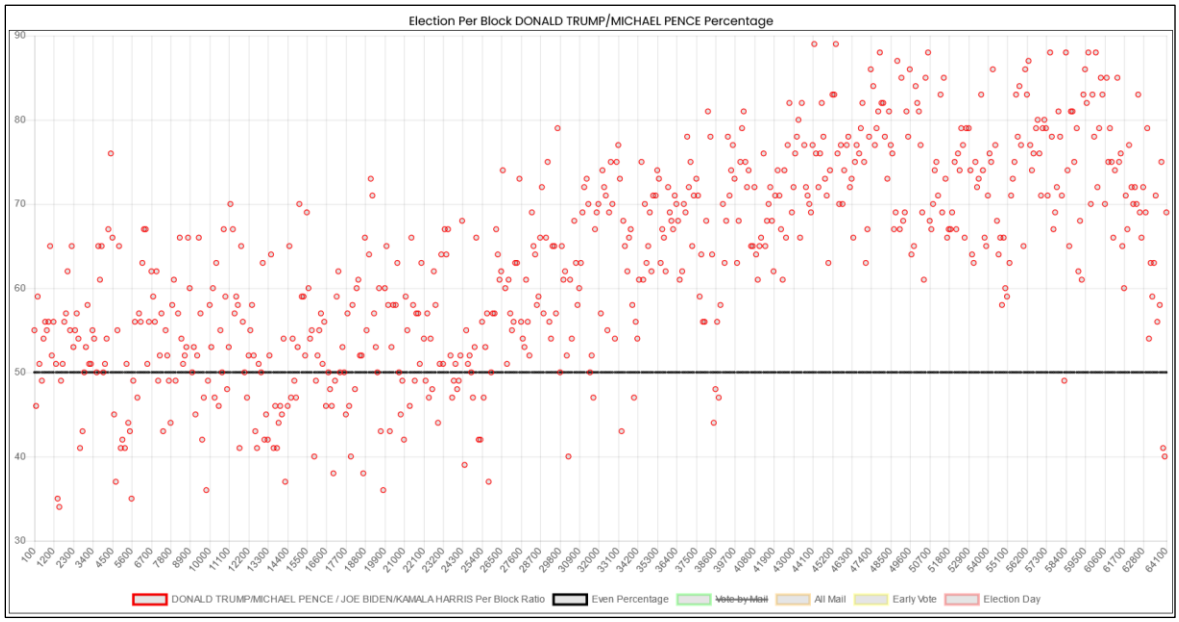
  The California official results report 92,930 ballots cast for president, and the Cast Vote Record reports 92,930. Thus, no ballots were redacted. This is high.

  According to the Cast Vote Record, President Trump won this county with 64.5% to Joseph Biden's 32.3%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump. There is a dip at the very end towards Biden-heavy blocks.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. Note once again the downward plunge at the very end.



- **<u>Sierra County</u>**
  Vendor: Hart Intercivic

  The California official results report 1,931 ballots cast for president, and the Cast Vote Record reports 1,964. Thus, **the Sierra County Cast Vote Record contains 33 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 58.1% to Joseph Biden's 37.2%.

  Because of the small number of ballots in this county, no analysis for the Mesa Pattern is possible.

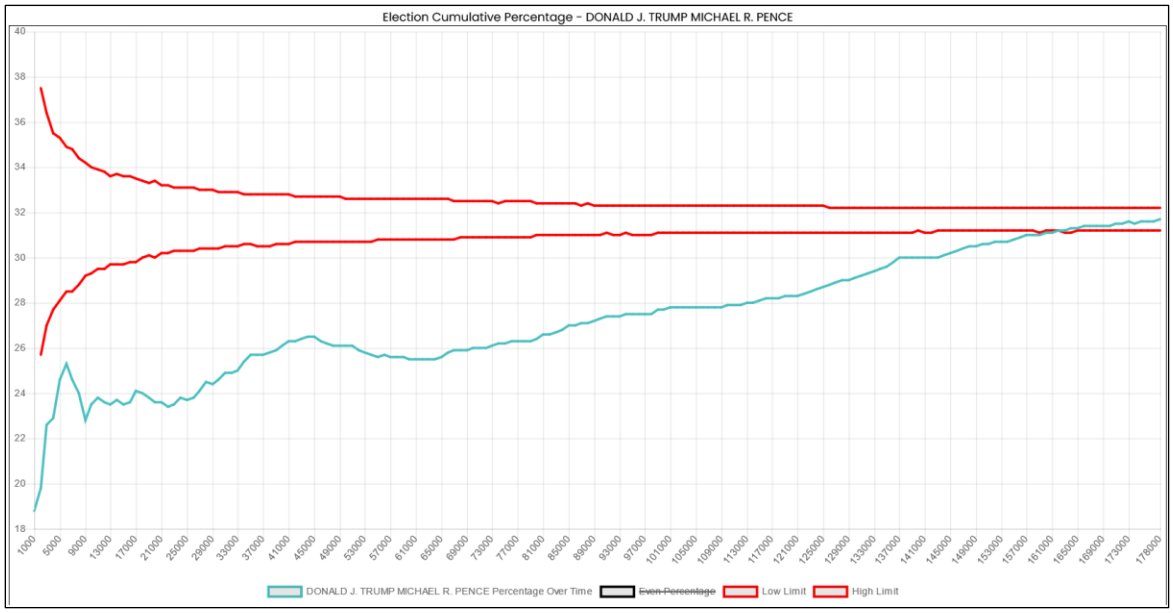
- Solano County

  Vendor: Hart Intercivic

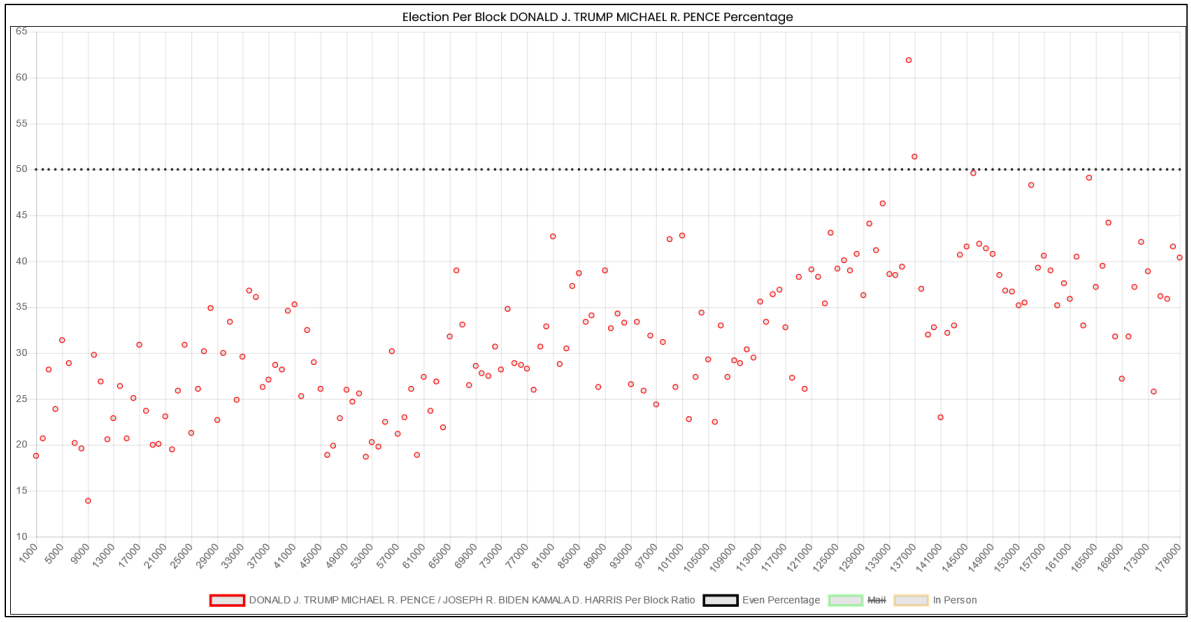
  The California official results report 205,877 ballots cast for president, and the Cast Vote Record reports 206,224. Thus, **the Solano County Cast Vote Record contains 347 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 33.6% to Joseph Biden's 64.0%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.



BALLOTS PROCESSED BY DATE

Because the county supplied its Cast Vote Record in individual xml files, the dates those files were created can be used to determine when most ballots were processed. The numbers can be compared with official records. Each line shows the ballots processed, the Trump and Biden votes counted on that day, and the day's percentage for each of the candidates. Dates before the election counting period are not easily explainable.

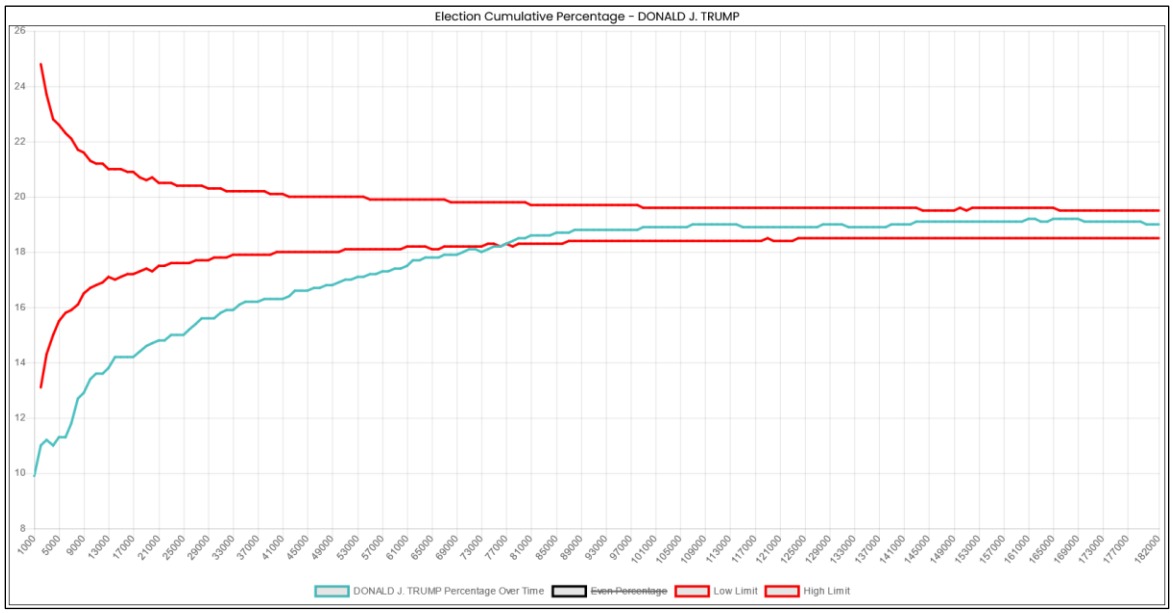
Date	Total	Trump	Biden	Trump %	Biden %
1/1/2020	23,509	12,862	10,115	54.7%	43.0%
11/1/2020	82,765	21,661	59,572	26.2%	72.0%
11/3/2020	41,748	13,039	27,768	31.2%	66.5%
11/4/2020	26,316	10,165	15,383	38.6%	58.5%
11/5/2020	13,733	5,114	8,060	37.2%	58.7%
11/6/2020	7,142	2,785	4,086	39.0%	57.2%
11/9/2020	4,306	1,390	2,803	32.3%	65.1%
11/10/2020	2,757	850	1,808	30.8%	65.6%
11/12/2020	1,594	591	949	37.1%	59.5%
11/13/2020	1,387	545	792	39.3%	57.1%
11/16/2020	738	293	416	39.7%	56.4%
11/17/2020	39	12	27	30.8%	69.2%
11/18/2020	28	14	13	50.0%	46.4%
11/19/2020	49	16	33	32.7%	67.3%
11/20/2020	110	43	65	39.1%	59.1%
11/23/2020	1	0	1	0.0%	100.0%
11/24/2020	2	1	1	50.0%	50.0%
Total	206,224	69,381	#####	33.6%	64.0%

- **Sonoma County**
  Vendor: Dominion Voting Systems

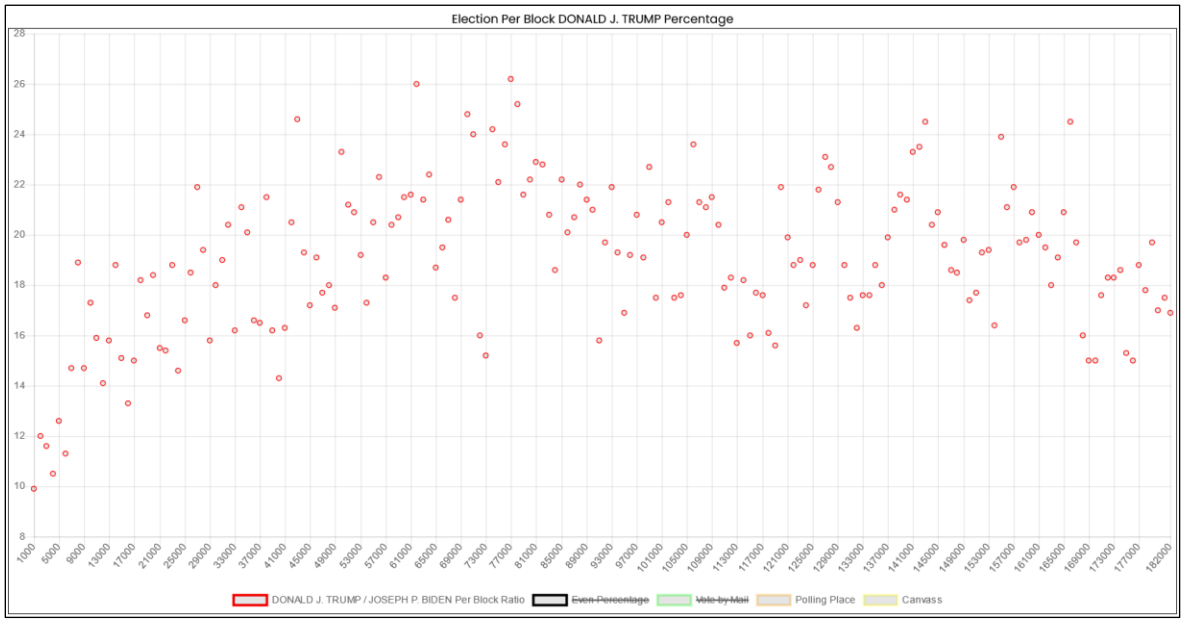
  The California official results report 268,317 ballots cast for president, and the Cast Vote Record reports 267,927. Thus, **390** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 23.0% to Joseph Biden's 74.5%.

  Plotting the mail-in votes in sequence shows an unusual pattern. The first half of the counting shows a typical Mesa Pattern with a back half rise of 1.13. However, from that point on the plot shows a nearly expected pattern to the end.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the first half of the counting then a nearly random pattern from then on.

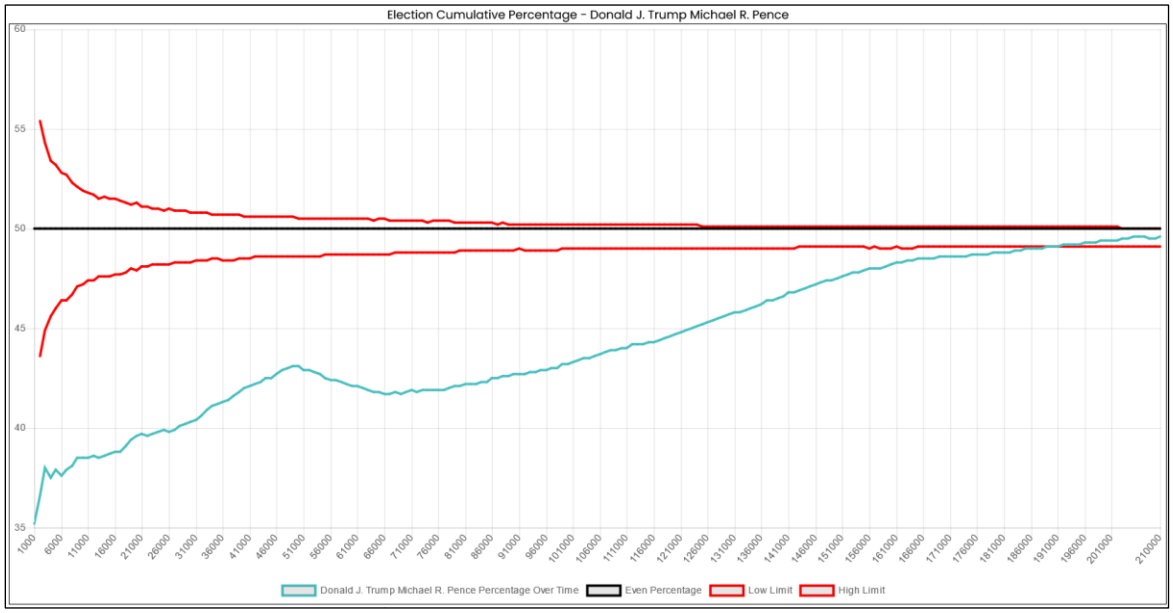


- **<u>Stanislaus County</u>**
  Vendor: Hart Intercivic

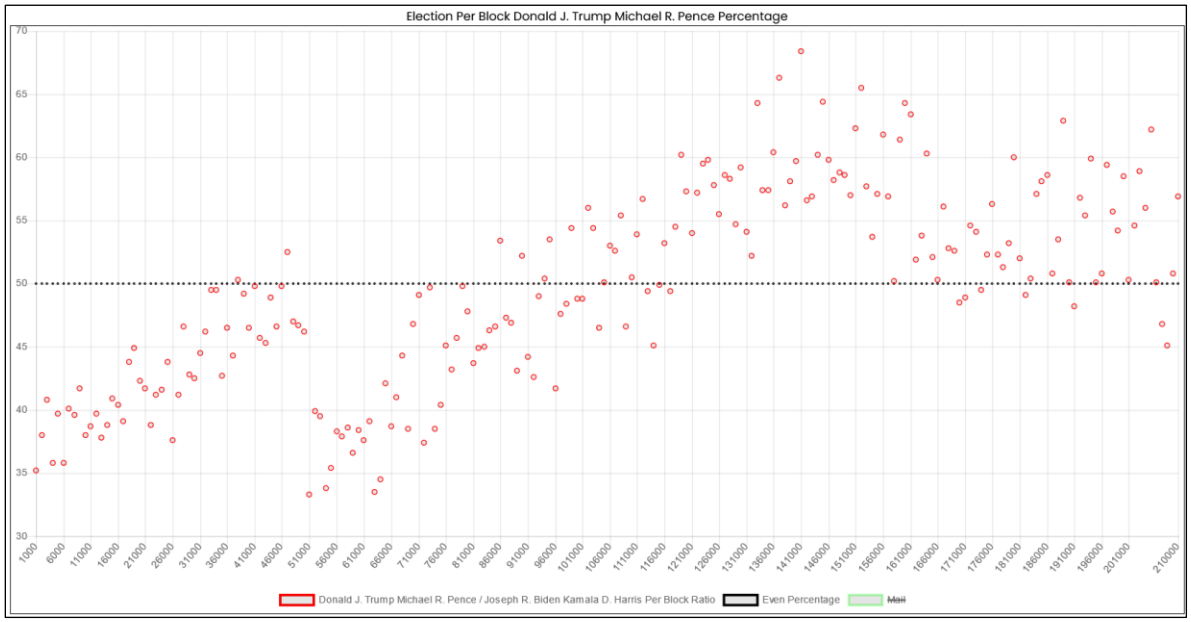
  The California official results report 214,954 ballots cast for president, and the Cast Vote Record reports 215,068. Thus, **the Stanislaus County Cast Vote Record contains 114 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 48.4% to Joseph Biden's 49.3%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.14 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise, then a seeming "restart", then a gradual rise as the counting proceeds. The last quarter also shows a seeming correction down.



BALLOTS PROCESSED BY DATE

Because the county supplied its Cast Vote Record in individual xml files, the dates those files were created can be used to determine when most ballots were processed. The numbers can be compared with official records. Each line shows the ballots processed, the Trump and Biden votes counted on that day, and the day's percentage for each of the candidates. Dates before the election counting period are not easily explainable.

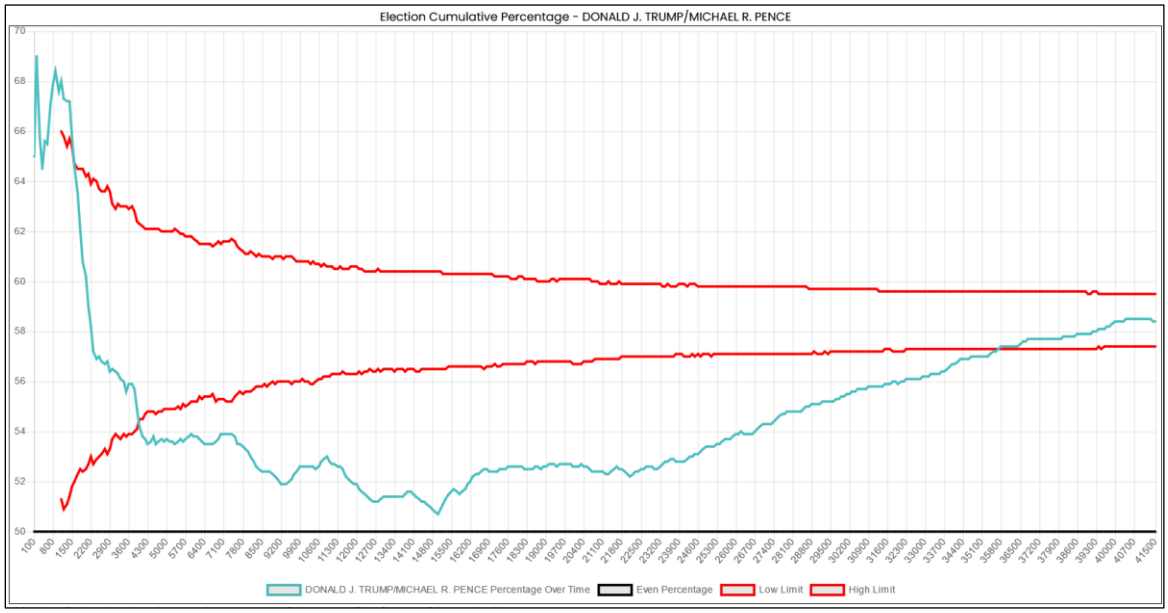
Date	Total	Trump	Biden	Trump %	Biden %
10/31/2020	105,444	45,024	58,410	42.7%	55.4%
11/1/2020	13,726	6,831	6,578	49.8%	47.9%
11/3/2020	18,472	10,359	7,717	56.1%	41.8%
11/6/2020	30,142	17,430	12,030	57.8%	39.9%
11/10/2020	28,231	14,533	12,774	51.5%	45.2%
11/13/2020	14,178	7,650	6,039	54.0%	42.6%
11/17/2020	1,692	776	864	45.9%	51.1%
11/20/2020	1,359	621	705	45.7%	51.9%
11/23/2020	1,824	957	814	52.5%	44.6%
Total	215,068	104,181	105,931	48.4%	49.3%

- **Sutter County**
  Vendor: Dominion Voting Systems

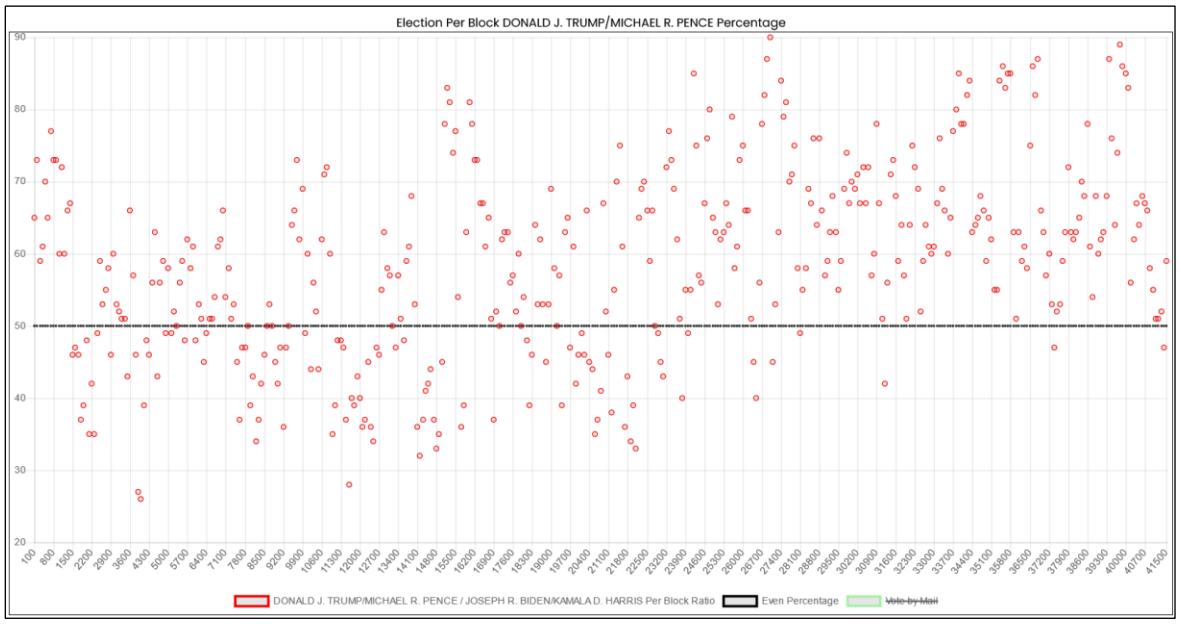
  The California official results report 42,644 ballots cast for president, and the Cast Vote Record reports 42,705. Thus, **61** ballots were redacted. This is high.

  According to the Cast Vote Record, President Trump won this county with 56.9% to Joseph Biden's 40.5%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.11 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

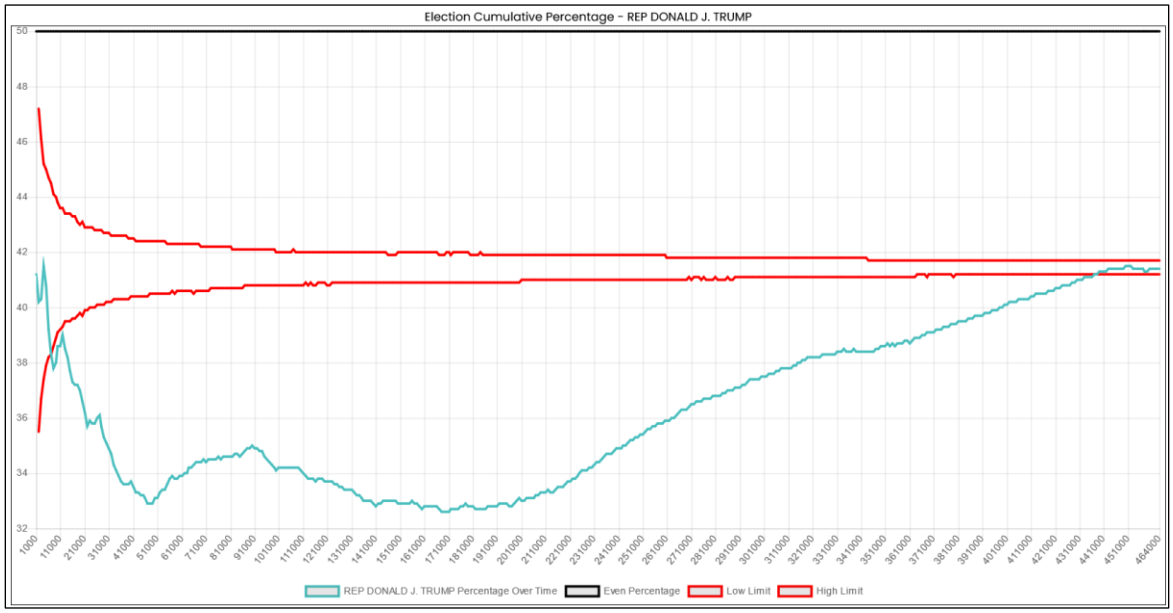


- **Tehama County**
  Vendor: Dominion Voting Systems

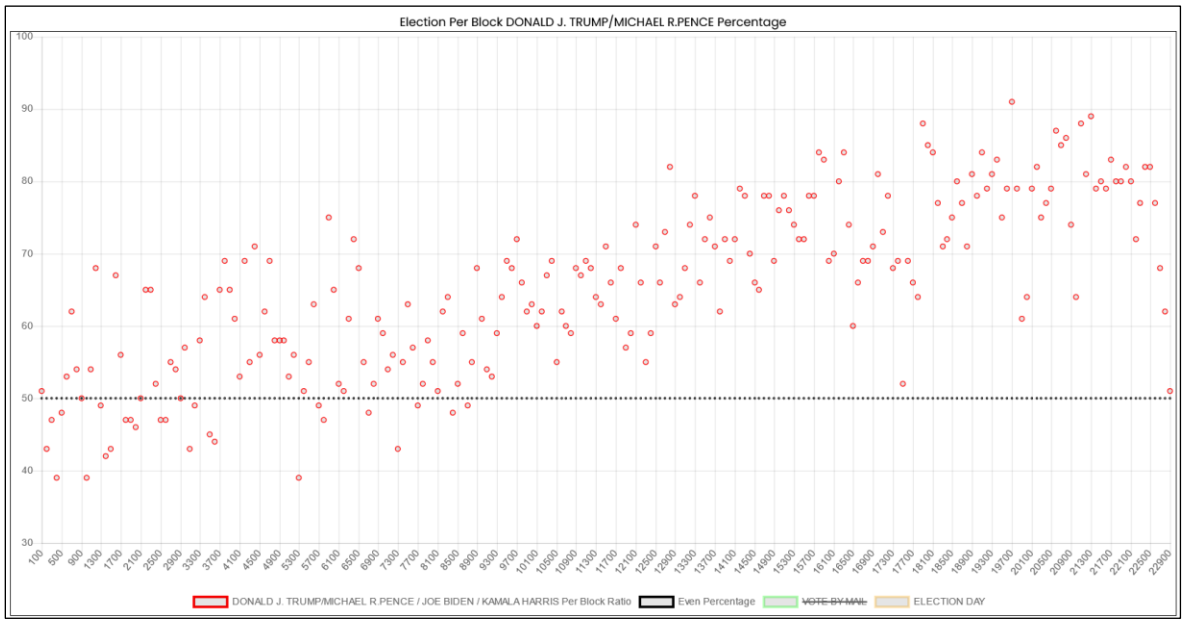
  The California official results report 28,731 ballots cast for president, and the Cast Vote Record reports 28,731. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 66.6% to Joseph Biden's 31.0%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.15 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

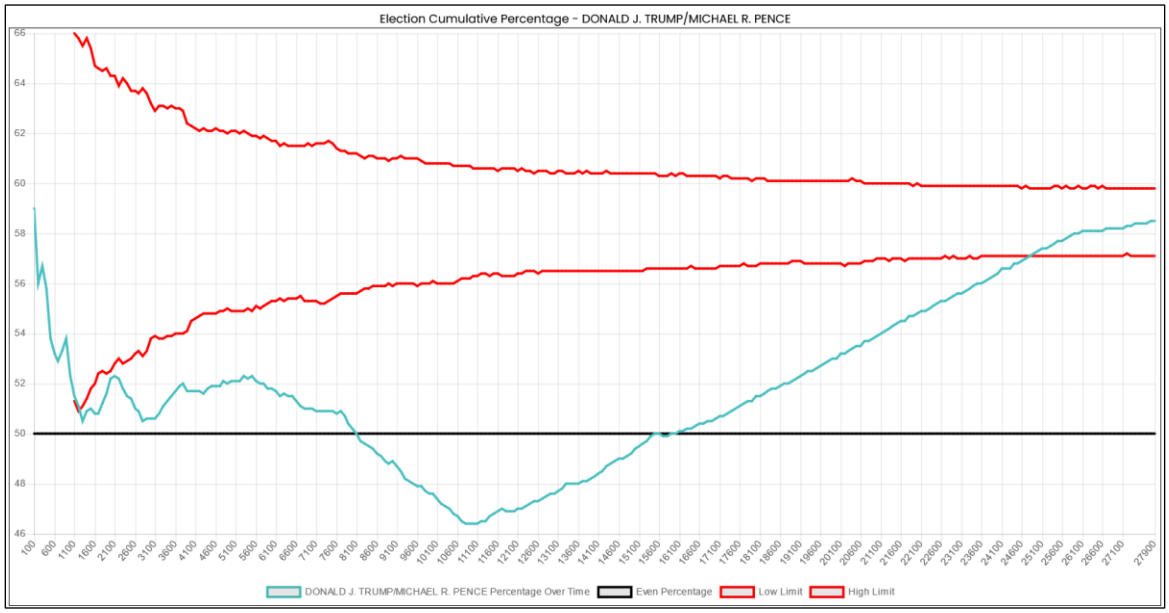


- **<u>Tuolumne County</u>**
  Vendor: Dominion Voting Systems

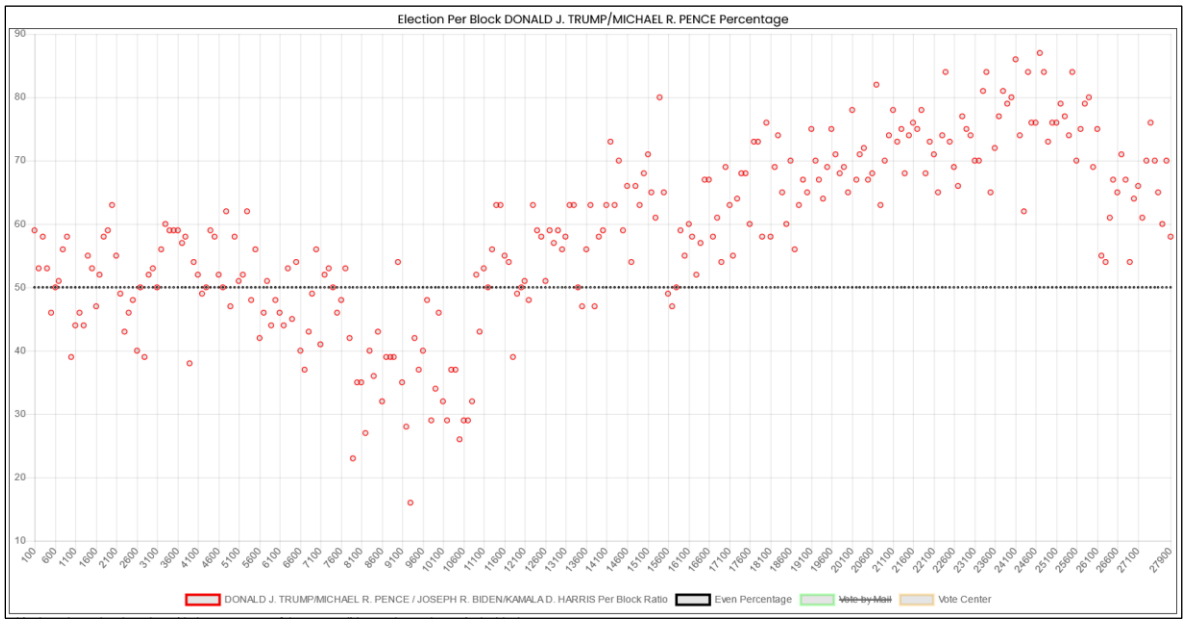
  The California official results report 30,408 ballots cast for president, and the Cast Vote Record reports 30,408. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 58.2% to Joseph Biden's 39.4%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.21 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows several gradual movements, first down a bit more than is normally seen, then the rise, and then a tail-off at the end. .

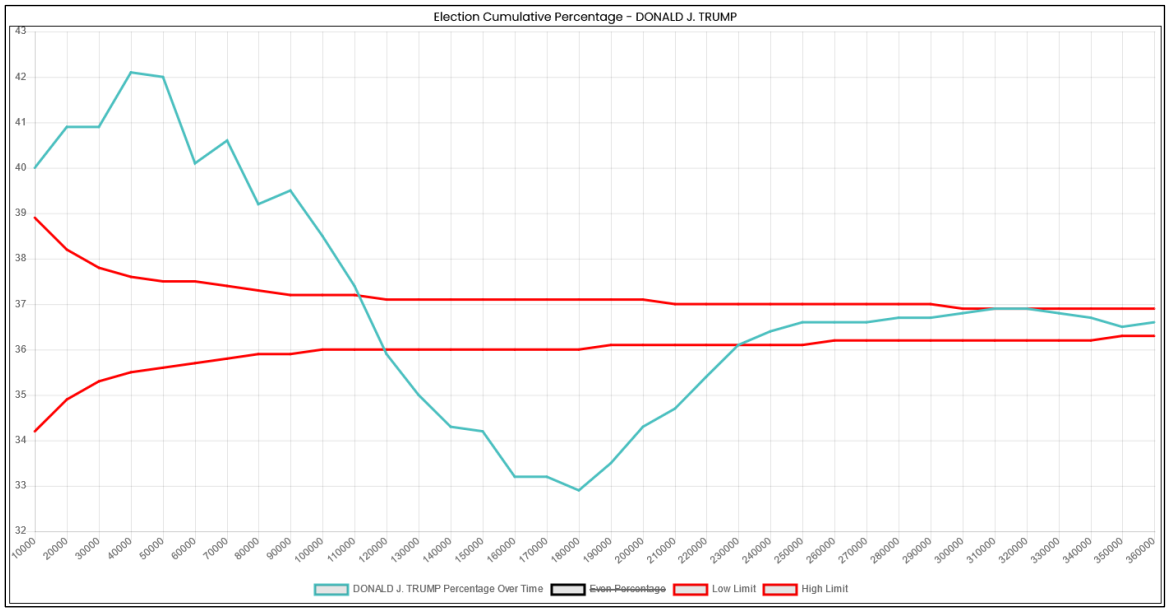


- **Ventura County**
  Vendor: Dominion Voting Systems

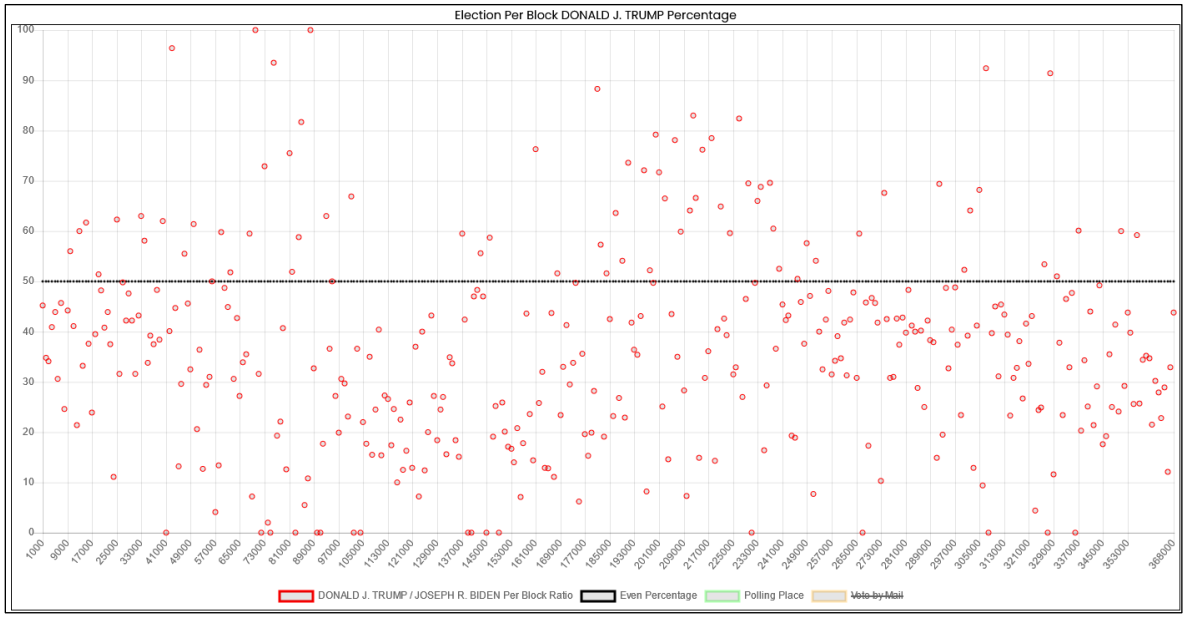
  The California official results report 422,825 ballots cast for president, and the Cast Vote Record reports 424,489. Thus, **1,664** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 38.2% to Joseph Biden's 59.1%.

  Plotting the mail-in votes in sequence shows something like the Mesa Pattern with a back half rise of 1.09 in favor of President Trump. However, the visual pattern is unique and equally impossible. After The percentage of votes for President Trump rises to over 40%, it then dips precariously to around 33% at the approximate 180,000 vote mark. It then rises rapidly back to finally end up at 36.6%. Ventura County shows intense algorithmic manipulation of a much more reactive type.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes shows the chaotic nature of the vote, mirroring the percentage plot above.



- **Yolo County**
  Vendor: Hart Intercivic

  The California official results report 97,294 ballots cast for president, and the Cast Vote Record reports 98,153. Thus, **the Yolo County Cast Vote Record contains 859 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 27.6% to Joseph Biden's 68.2%.

  Yolo County provided its Cast Vote Record as one massive pdf file with one page per ballot. This report was printed in an indeterminant, perhaps random fashion which makes analyzing the Cast Vote Record for any pattern impossible.

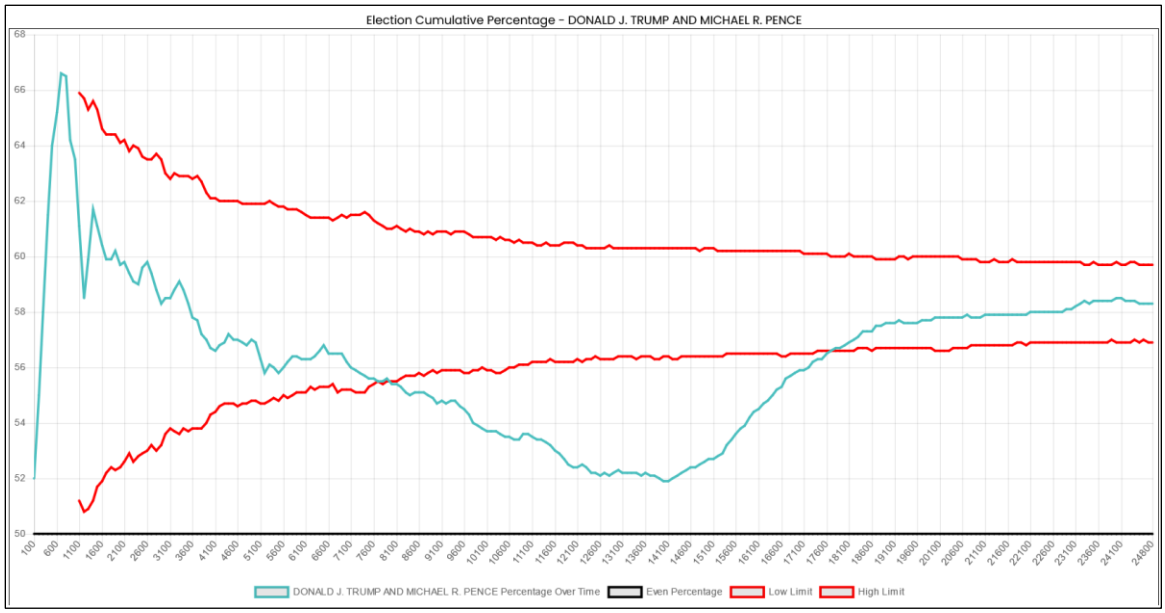
  However, when viewing precinct level-results in sequence, the general Mesa Pattern is in evidence. Precinct CON 08 shows a 1.12 back half rise of 1.12 in favor of President Trump, while precinct CON-05 shows a 1.16 back half rise in favor of Joseph Biden. Therefore, I find it likely that a true sequential Cast Vote Record would show some manner of Mesa Pattern.

- **<u>Yuba County</u>**
  Vendor: Dominion Voting Systems

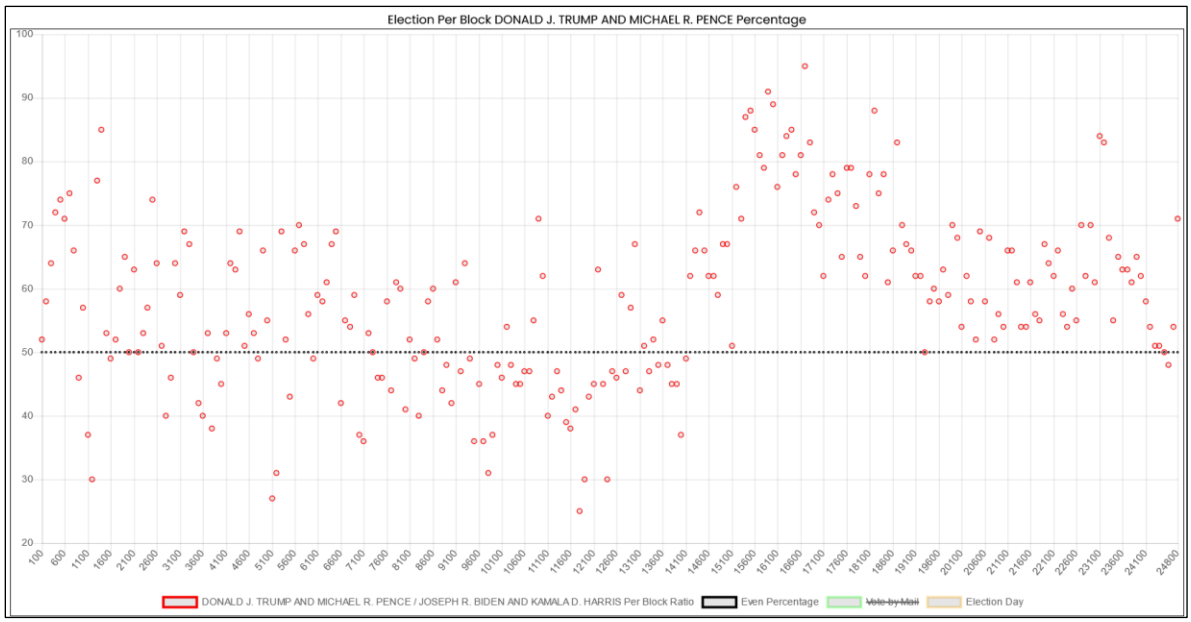
  The California official results report 29,796 ballots cast for president, and the Cast Vote Record reports 29,796. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 59.3% to Joseph Biden's 37.7%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.12 in favor of President Trump. This county shows an unusual high percentage of votes for President Trump early, but then falls to its lowest point at about the halfway point.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual ups and downs as the counting progresses.



COUNTY SUMMARY ANALYSIS

The following shows each county for which a Cast Vote Record was received, and a score based upon three criteria.

4. The County shows the visual aspect of the Mesa Pattern (or its reverse) – 1 point.
5. The County has a back half rise (or fall) greater than or equal to 1.1 (rounded) – 1 point.
6. The percentage plot of President Trump's votes exceeds the range of possible values indicated by the red cone – 1 point.

While any score above zero indicates machine manipulation, the actual score may correlate to the severity of the manipulation.

County	Vendor	Manipulation Score
Alameda	Dominion Voting Systems	Too Small for Analysis
Amador	Election Systems & Software	Too Small for Analysis
Calaveras	Hart InterCivic	Cannot Be Determined
Contra Costa	Dominion Voting Systems	3
Del Norte	Dominion Voting Systems	3
El Dorado	Dominion Voting Systems	3
Fresno	Dominion Voting Systems	3
Glenn	Dominion Voting Systems	1
Humboldt	Hart InterCivic	3
Imperial	Dominion Voting Systems	Cannot Be Determined
Inyo	Dominion Voting Systems	3
Kern	Dominion Voting Systems	3
King	Dominion Voting Systems	2
Lake	Hart InterCivic	3
Los Angeles	Smartmatic/Los Angeles County	3
Marin	Dominion Voting Systems	3
Mariposa	Dominion Voting Systems	Cannot Be Determined
Mendocino	Hart InterCivic	3
Merced	Election Systems & Software	2
Mono	Dominion Voting Systems	2
Nevada	Hart InterCivic	3
Orange	Hart InterCivic	3
Placer	Dominion Voting Systems	3
Riverside	Dominion Voting Systems	3
Sacramento	Dominion Voting Systems	Cannot Be Determined
San Benito	Dominion Voting Systems	3
San Bernardino	Dominion Voting Systems	3
San Diego All	Dominion Voting Systems	3
San Francisco	Dominion Voting Systems	3
San Joaquin	Hart InterCivic	3
San Luis Obispo	Dominion Voting Systems	3
San Mateo	Dominion Voting Systems	3
Santa Barbara	Dominion Voting Systems	3
Santa Cruz	Dominion Voting Systems	3
Shasta	Dominion Voting Systems	3
Sierra	Hart InterCivic	Too Small for Analysis
Solano	Hart InterCivic	3

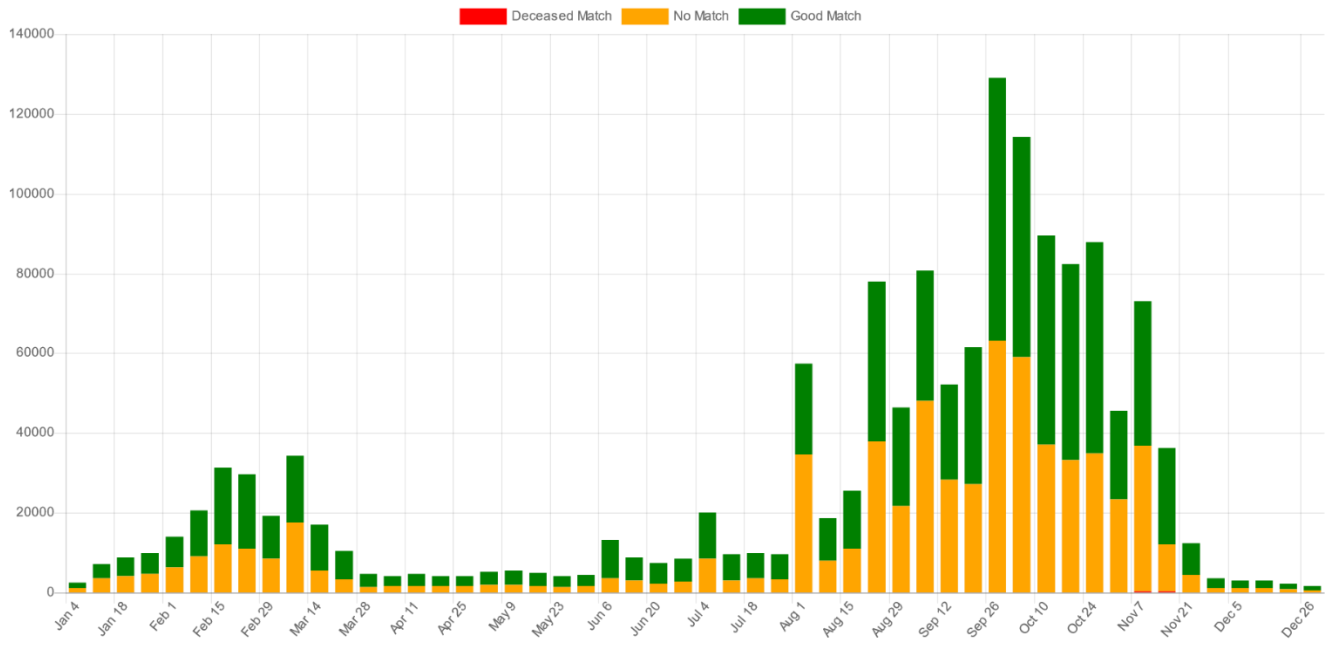
Sonoma	Dominion Voting Systems	2
Stanislaus	Hart InterCivic	3
Sutter	Dominion Voting Systems	3
Tehama	Dominion Voting Systems	3
Tuolumne	Dominion Voting Systems	3
Ventura	Dominion Voting Systems	2
Yolo	Hart InterCivic	Cannot Be Determined
Yuba	Dominion Voting Systems	3

31 counties have the highest manipulation score of 3.
5 counties have a manipulation score of 2.
1 county has a manipulation score of 1.

STATE HAVV LOOKUP ANALYSIS

California's HAVV lookup statistics (as provided by the Social Security Administration) give the appearance that this program is being abused to register unqualified voters. A total of 1,440,069 queries were made by the state during 2020, and 657,698 of them were rejected as "no match". 2,003 of the queries were rejected as "Single Match Deceased". The HAVV queries peaked on the week of September 26, with 129,066 queries being made that week alone, with 63,255 (49%) being rejected as "no match". Lookups can and do lag behind the actual date of application.

Remembering that this type of voter qualification is intended to be used for those without proper identification, all of these numbers seem extremely high, and should be further investigated.



ELECTION NIGHT RESULT ANOMALIES

This table lists California counties which experienced election night reporting anomalies. The data is taken from the Edison/New York Times election night reporting results from the 2020 General Election.

There are three different vote totals reported for each candidate in the election night reporting, the total votes, the election day votes, and the absentee votes. If there are votes removed from the election day or absentee and there is not a corresponding drop

in total votes, that means that vote counts were shifted from election day to absentee or vice versa.

County	Timestamp	Candidate	Number of Votes Removed	Type of Votes Removed
IMPERIAL	11/9/20 9:17 PM	Trump	2,391	Total Votes
IMPERIAL	11/9/20 9:17 PM	Biden	8,377	Total Votes
IMPERIAL	11/9/20 9:17 PM	Trump	2,391	Election Day Votes
IMPERIAL	11/9/20 9:17 PM	Biden	8,377	Election Day Votes
IMPERIAL	11/12/20 12:35 PM	Trump	1,801	Election Day Votes
IMPERIAL	11/12/20 12:35 PM	Biden	4,200	Election Day Votes
MENDOCINO	11/25/20 1:48 PM	Trump	10,268	Election Day Votes
MENDOCINO	11/25/20 3:48 PM	Biden	24,383	Election Day Votes
SAN BERNARDINO	11/4/20 3:57 AM	Trump	91,329	Election Day Votes
SAN BERNARDINO	11/4/20 3:57 AM	Biden	200,493	Election Day Votes
SAN DIEGO	11/9/20 5:48 PM	Trump	130,015	Election Day Votes
SAN DIEGO	11/9/20 5:48 PM	Biden	170,003	Election Day Votes

CONSECUTIVE VOTES FOR CANDIDATES WITH LESS THAN 1% PROBABILITY

The mail-in votes show the following number of Consecutive Votes For the indicated candidate, and the likelihood of that many consecutive votes occurring given the final percentage breakdown of the votes. The existence of so many of these very improbable runs is an additional indication of the algorithm used to affect the vote results and would be expected given the smoothing sorting of votes indicated by the Mesa Pattern.

Counties not listed did not have any vote runs which fell below the 1% probability or exhibited precinct level sorting.

El Dorado

Consecutive votes for President Trump		
Run	#	
23	4	Very Unlikely (0.1-1%)
24	4	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	#	
21	2	Very Unlikely (0.1-1%)
22	5	Very Unlikely (0.1-1%)
24	2	Very Unlikely (0.1-1%)
26	4	Extremely Unlikely (<0.1%)

Humboldt

Consecutive votes for President Trump		
Run	#	
12	7	Very Unlikely (0.1-1%)
13	3	Very Unlikely (0.1-1%)
14	2	Very Unlikely (0.1-1%)
16	3	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
44	3	Very Unlikely (0.1-1%)
45	3	Very Unlikely (0.1-1%)
47	2	Very Unlikely (0.1-1%)
49	3	Extremely Unlikely (<0.1%)
51	2	Extremely Unlikely (<0.1%)
54	2	Extremely Unlikely (<0.1%)

Kern

Consecutive votes for President Trump		
Run	#	
22	18	Very Unlikely (0.1-1%)
23	13	Very Unlikely (0.1-1%)
24	7	Very Unlikely (0.1-1%)
25	11	Very Unlikely (0.1-1%)
26	11	Very Unlikely (0.1-1%)
27	3	Very Unlikely (0.1-1%)
28	9	Extremely Unlikely (<0.1%)
30	2	Extremely Unlikely (<0.1%)
32	3	Extremely Unlikely (<0.1%)
33	3	Extremely Unlikely (<0.1%)
35	2	Extremely Unlikely (<0.1%)
36	3	Extremely Unlikely (<0.1%)
37	2	Extremely Unlikely (<0.1%)
39	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
20	9	Very Unlikely (0.1-1%)
21	6	Very Unlikely (0.1-1%)
22	7	Very Unlikely (0.1-1%)
23	3	Very Unlikely (0.1-1%)
24	2	Very Unlikely (0.1-1%)
25	3	Extremely Unlikely (<0.1%)
26	3	Extremely Unlikely (<0.1%)
27	3	Extremely Unlikely (<0.1%)
34	2	Extremely Unlikely (<0.1%)

Mariposa

Consecutive Votes for Joseph Biden		
Run	#	
15	2	Very Unlikely (0.1-1%)
25	3	Extremely Unlikely (<0.1%)

Mendocino

Consecutive votes for President Trump		
Run	#	
13	4	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	#	
48	2	Extremely Unlikely (<0.1%)

Nevada

Consecutive Votes for Joseph Biden		
Run	#	
29	4	Very Unlikely (0.1-1%)
32	3	Very Unlikely (0.1-1%)
35	2	Extremely Unlikely (<0.1%)
36	2	Extremely Unlikely (<0.1%)

Orange

Consecutive votes for President Trump		
Run	#	
17	70	Very Unlikely (0.1-1%)
18	45	Very Unlikely (0.1-1%)
19	33	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	#	
29	49	Very Unlikely (0.1-1%)
30	37	Very Unlikely (0.1-1%)
31	32	Very Unlikely (0.1-1%)

20	19	Extremely Unlikely (<0.1%)
21	20	Extremely Unlikely (<0.1%)
22	19	Extremely Unlikely (<0.1%)
23	13	Extremely Unlikely (<0.1%)
24	11	Extremely Unlikely (<0.1%)
25	9	Extremely Unlikely (<0.1%)
26	7	Extremely Unlikely (<0.1%)
27	4	Extremely Unlikely (<0.1%)
28	6	Extremely Unlikely (<0.1%)
29	4	Extremely Unlikely (<0.1%)
30	2	Extremely Unlikely (<0.1%)
31	3	Extremely Unlikely (<0.1%)
43	2	Extremely Unlikely (<0.1%)

32	23	Very Unlikely (0.1-1%)
33	21	Very Unlikely (0.1-1%)
34	10	Very Unlikely (0.1-1%)
35	15	Very Unlikely (0.1-1%)
36	26	Extremely Unlikely (<0.1%)
37	15	Extremely Unlikely (<0.1%)
38	11	Extremely Unlikely (<0.1%)
39	11	Extremely Unlikely (<0.1%)
40	6	Extremely Unlikely (<0.1%)
41	5	Extremely Unlikely (<0.1%)
42	9	Extremely Unlikely (<0.1%)
43	2	Extremely Unlikely (<0.1%)
44	3	Extremely Unlikely (<0.1%)
45	6	Extremely Unlikely (<0.1%)
46	4	Extremely Unlikely (<0.1%)
47	6	Extremely Unlikely (<0.1%)
48	2	Extremely Unlikely (<0.1%)
49	4	Extremely Unlikely (<0.1%)
56	4	Extremely Unlikely (<0.1%)
57	2	Extremely Unlikely (<0.1%)
58	2	Extremely Unlikely (<0.1%)

Placer

Consecutive votes for President Trump		
Run	**#**	
27	2	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
23	2	Very Unlikely (0.1-1%)
24	4	Very Unlikely (0.1-1%)

Riverside

Consecutive votes for President Trump		
Run	**#**	
19	23	Very Unlikely (0.1-1%)
20	10	Very Unlikely (0.1-1%)
21	7	Very Unlikely (0.1-1%)
22	5	Very Unlikely (0.1-1%)
23	5	Extremely Unlikely (<0.1%)
24	4	Extremely Unlikely (<0.1%)
25	2	Extremely Unlikely (<0.1%)
26	3	Extremely Unlikely (<0.1%)
27	2	Extremely Unlikely (<0.1%)
28	3	Extremely Unlikely (<0.1%)
29	3	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
27	20	Very Unlikely (0.1-1%)
28	30	Very Unlikely (0.1-1%)
29	11	Very Unlikely (0.1-1%)
30	11	Very Unlikely (0.1-1%)
31	8	Very Unlikely (0.1-1%)
32	13	Extremely Unlikely (<0.1%)
33	9	Extremely Unlikely (<0.1%)
34	10	Extremely Unlikely (<0.1%)
35	5	Extremely Unlikely (<0.1%)
36	3	Extremely Unlikely (<0.1%)
37	4	Extremely Unlikely (<0.1%)
38	2	Extremely Unlikely (<0.1%)
40	4	Extremely Unlikely (<0.1%)
41	2	Extremely Unlikely (<0.1%)
42	3	Extremely Unlikely (<0.1%)

48	3	Extremely Unlikely (<0.1%)
55	4	Extremely Unlikely (<0.1%)

San Bernardino

Consecutive votes for President Trump		
Run	**#**	
17	21	Very Unlikely (0.1-1%)
18	12	Very Unlikely (0.1-1%)
19	10	Very Unlikely (0.1-1%)
20	8	Very Unlikely (0.1-1%)
21	6	Extremely Unlikely (<0.1%)
22	2	Extremely Unlikely (<0.1%)
27	2	Extremely Unlikely (<0.1%)

San Diego

Consecutive votes for President Trump		
Run	**#**	
18	2	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
34	7	Very Unlikely (0.1-1%)
35	3	Very Unlikely (0.1-1%)
36	2	Very Unlikely (0.1-1%)
39	2	Very Unlikely (0.1-1%)
44	2	Extremely Unlikely (<0.1%)
45	2	Extremely Unlikely (<0.1%)
49	2	Extremely Unlikely (<0.1%)

San Joaquin

Consecutive votes for President Trump		
Run	**#**	
15	4	Very Unlikely (0.1-1%)
17	2	Very Unlikely (0.1-1%)
19	2	Extremely Unlikely (<0.1%)

San Luis Obispo

Consecutive votes for President Trump		
Run	**#**	
18	3	Very Unlikely (0.1-1%)
19	4	Very Unlikely (0.1-1%)
22	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
30	2	Very Unlikely (0.1-1%)
33	3	Extremely Unlikely (<0.1%)

San Mateo

Consecutive Votes for Joseph Biden		
Run	#	
85	2	Very Unlikely (0.1-1%)
86	2	Very Unlikely (0.1-1%)

Santa Barbara

Consecutive votes for President Trump		
Run	#	
14	5	Very Unlikely (0.1-1%)
15	4	Very Unlikely (0.1-1%)
17	2	Extremely Unlikely (<0.1%)
18	4	Extremely Unlikely (<0.1%)
19	4	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
40	7	Very Unlikely (0.1-1%)
41	6	Very Unlikely (0.1-1%)
44	2	Very Unlikely (0.1-1%)
45	4	Very Unlikely (0.1-1%)
47	4	Extremely Unlikely (<0.1%)
48	2	Very Unlikely (0.1-1%)
49	3	Extremely Unlikely (<0.1%)
50	2	Extremely Unlikely (<0.1%)
53	2	Extremely Unlikely (<0.1%)
54	3	Extremely Unlikely (<0.1%)
58	2	Extremely Unlikely (<0.1%)
64	2	Extremely Unlikely (<0.1%)
65	2	Extremely Unlikely (<0.1%)
68	2	Extremely Unlikely (<0.1%)
105	2	Extremely Unlikely (<0.1%)

Santa Cruz

Consecutive Votes for Joseph Biden		
Run	#	
97	2	Extremely Unlikely (<0.1%)

Solano

Consecutive votes for President Trump		
Run	#	
13	7	Very Unlikely (0.1-1%)
14	6	Very Unlikely (0.1-1%)
19	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
42	3	Very Unlikely (0.1-1%)
44	2	Very Unlikely (0.1-1%)
47	2	Very Unlikely (0.1-1%)
56	2	Extremely Unlikely (<0.1%)

Stanislaus

Consecutive votes for President Trump		
Run	#	
22	5	Very Unlikely (0.1-1%)
23	4	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	#	
23	4	Very Unlikely (0.1-1%)
24	3	Very Unlikely (0.1-1%)

24	3	Very Unlikely (0.1-1%)
25	2	Very Unlikely (0.1-1%)
26	3	Extremely Unlikely (<0.1%)
27	4	Extremely Unlikely (<0.1%)
28	4	Extremely Unlikely (<0.1%)

Sutter

Consecutive votes for President Trump		
Run	**#**	
29	3	Very Unlikely (0.1-1%)

Yuba

Consecutive votes for President Trump		
Run	**#**	
26	3	Very Unlikely (0.1-1%)

COLORADO

62 of the 64 Colorado Counties responded positively to public records requests for Cast Vote Records. Only Baca County was completely non-responsive. Jefferson County provided a Cast Vote Record file which was missing a critical column. Las Animas responded with a very incomplete file which could not be properly analyzed.

53 of the 62 counties properly responding show the Mesa Pattern in their mail-in ballots. The average Back Half Rise of the 53 counties was 1.18, with a Standard Deviation of 0.11. 36 of them fit within two standard deviations around the mean.

It should be noted that the vast majority of ballots cast in Colorado's 2020 election were done so via Mail ballot.

The following chart shows the total ballots, Trump mail-in Midpoint percentage, Trump mail-in Endpoint percentage, and the Back Half Rise.

County	Ballots	Trump Ending %	Trump Mid %	Back Half Rise
Adams	217,100	41%	34%	1.19
Alamosa	7,500	50%	44%	1.14
Arapahoe	318,800	36%	30%	1.2
Archuleta	8,900	58%	51%	1.15
Bent	2,200	67%	61%	1.1
Boulder	199,000	21%	14%	1.48
Broomfield	42,900	34%	27%	1.26
Chaffee	13,300	46%	41%	1.13
Clear Creek	6,300	43%	35%	1.24
Conejos	4,200	54%	42%	1.3
Crowley	1,700	75%	71%	1.05
Custer	3,500	69%	59%	1.16
Delta	18,900	69%	61%	1.13
Denver	384,900	19%	13%	1.43
Dolores	1,400	77%	71%	1.08
Douglas	225,800	54%	45%	1.19
Eagle	28,400	35%	29%	1.18
El Paso	364,700	56%	49%	1.13
Elbert	18,500	76%	69%	1.09
Fremont	24,800	70%	64%	1.11
Garfield	29,400	49%	40%	1.21

Gilpin	4,000	45%	34%	1.32
Grand	9,500	51%	44%	1.15
Gunnison	10,800	34%	29%	1.19
Hinsdale	600	58%	54%	1.07
Huerfano	4,200	51%	43%	1.2
Kit Carson	3,800	83%	78%	1.06
La Plata	34,700	41%	31%	1.33
Lake	3,800	39%	31%	1.26
Larimer	217,500	42%	33%	1.28
Lincoln	2,600	82%	80%	1.03
Logan	10,200	78%	73%	1.07
Mesa	79,700	62%	53%	1.17
Mineral	700	58%	53%	1.09
Moffat	6,800	83%	79%	1.04
Montezuma	15,100	61%	55%	1.12
Montrose	24,400	69%	59%	1.15
Morgan	13,400	71%	68%	1.05
Otero	9,300	62%	58%	1.06
Ouray	3,900	40%	31%	1.29
Park	11,800	59%	51%	1.16
Phillips	2,400	80%	77%	1.05
Pitkin	11,700	24%	17%	1.37
Pueblo	85,900	49%	40%	1.23
Rio Blanco	3,600	85%	80%	1.05
Rio Grande	6,100	59%	52%	1.13
Routt	16,500	36%	26%	1.36
Saguache	3,200	43%	35%	1.23
San Miguel	5,000	22%	16%	1.37
Summit	17,700	30%	24%	1.26
Teller	16,500	68%	60%	1.14
Weld	108,100	55%	48%	1.15
Yuma	4,800	84%	80%	1.05

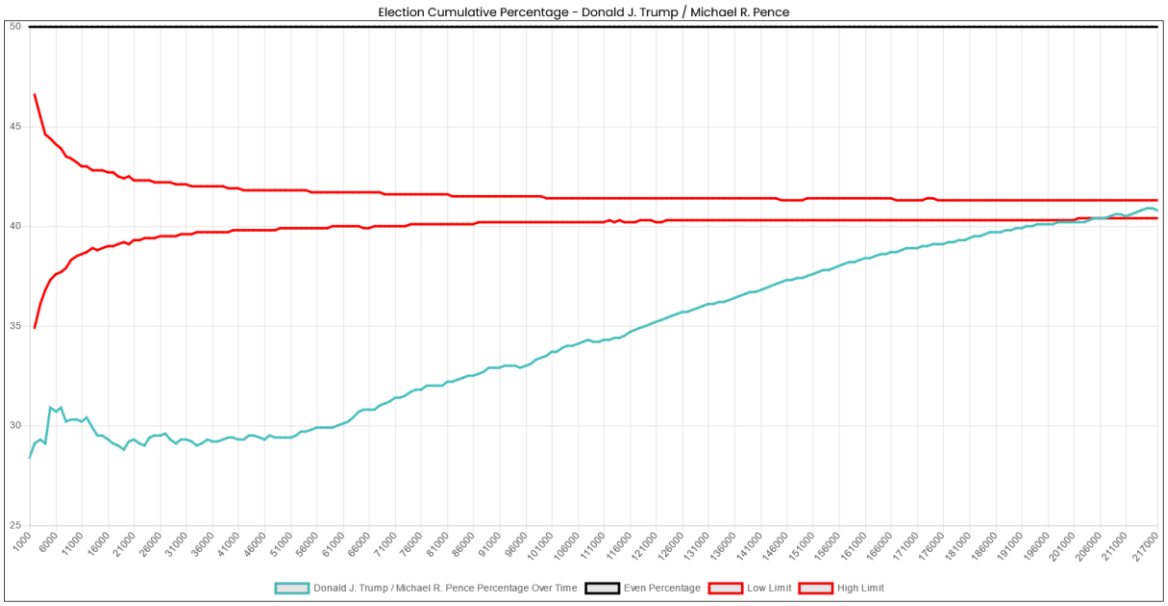
Following is the detailed breakdown of each of the 62 counties which provided an adequate Cast Vote Record.

- **<u>Adams County</u>**
  Vendor: Dominion Voting Systems

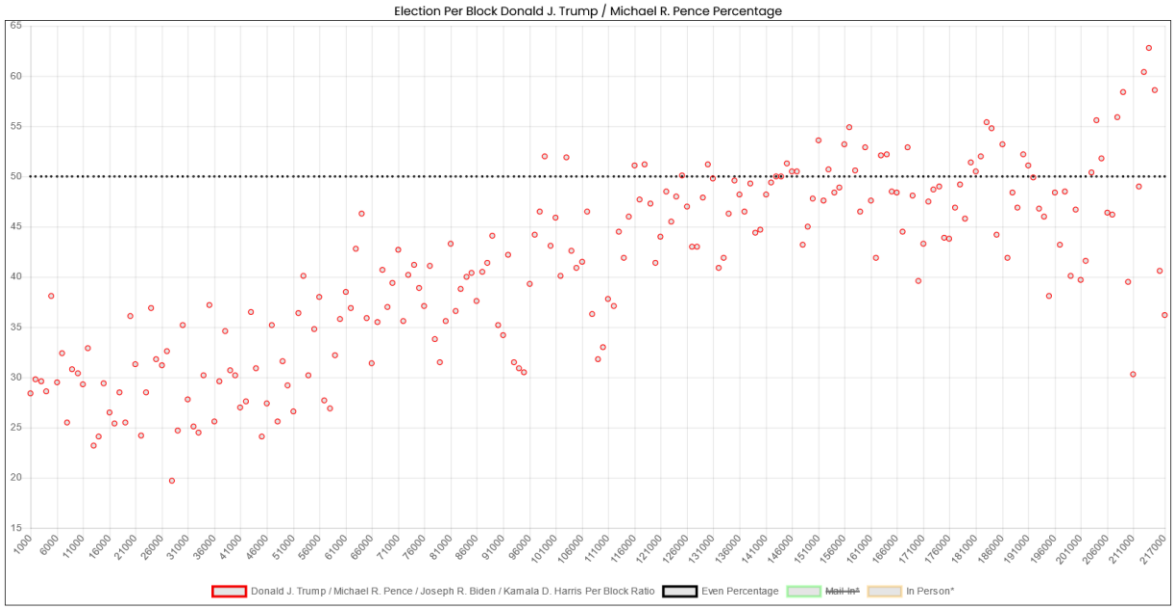
  The Colorado official results report 239,056 ballots cast for president, and the Cast Vote Record reports 236,724. Thus, **3,115** ballots were redacted. This is abnormally high.

  According to the Cast Vote Record, President Trump lost this county with 40.5% to Joseph Biden's 56.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.19 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

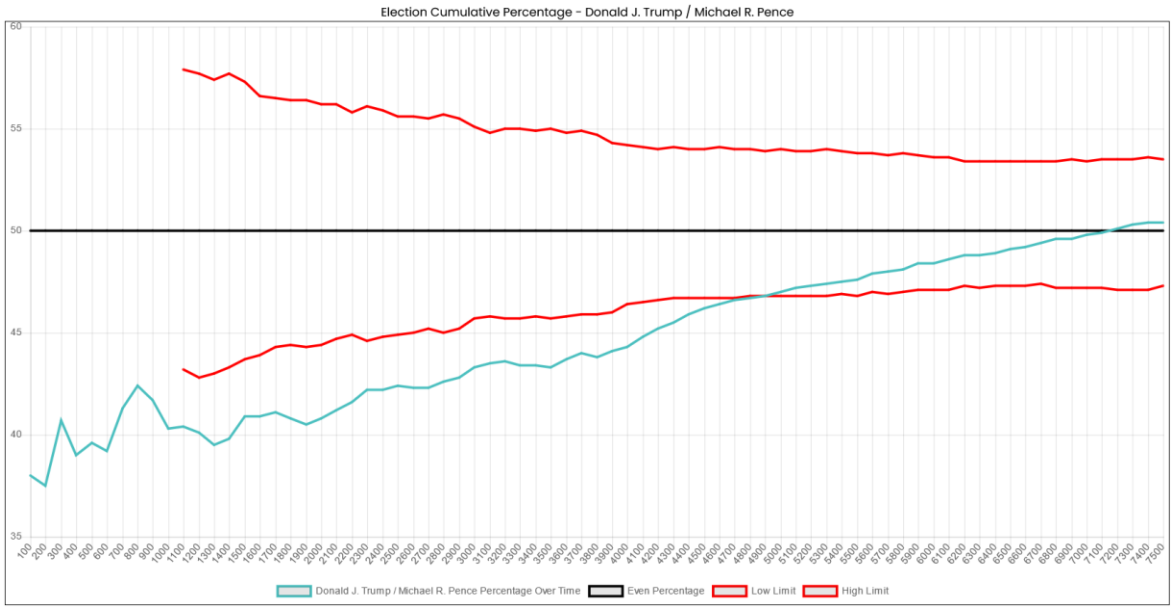


- **<u>Alamosa County</u>**
  Vendor: Dominion Voting Systems

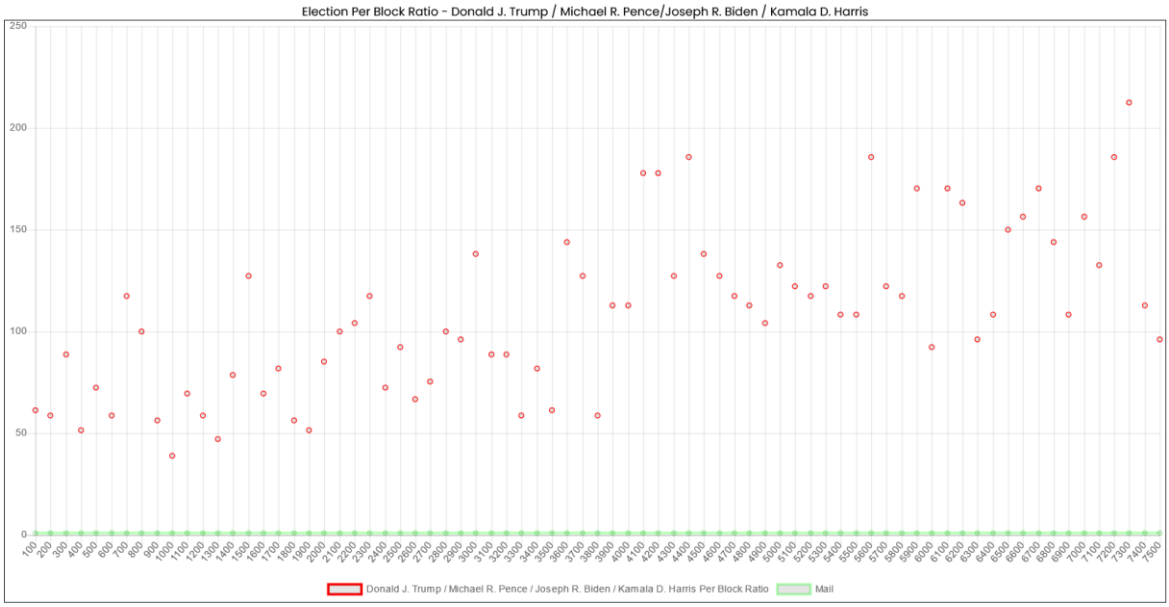
  The Colorado official results report 7,923 ballots cast for president, and the Cast Vote Record reports 7,808. Thus, **115** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 48.4% to Joseph Biden's 48.1%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.14 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

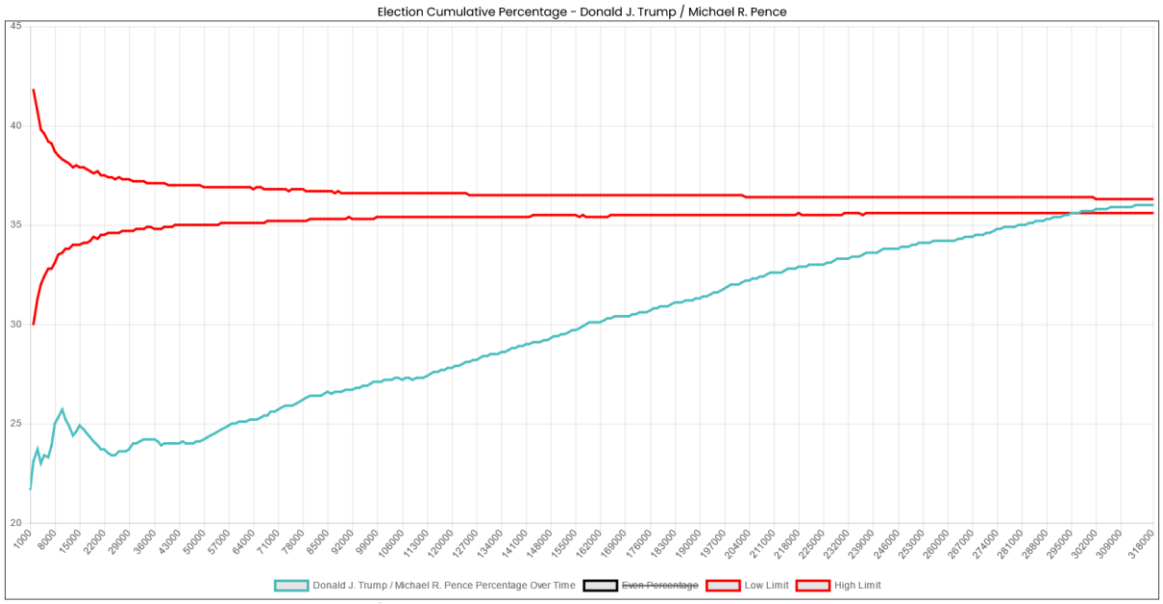


- **Arapahoe County**
  Vendor: Dominion Voting Systems

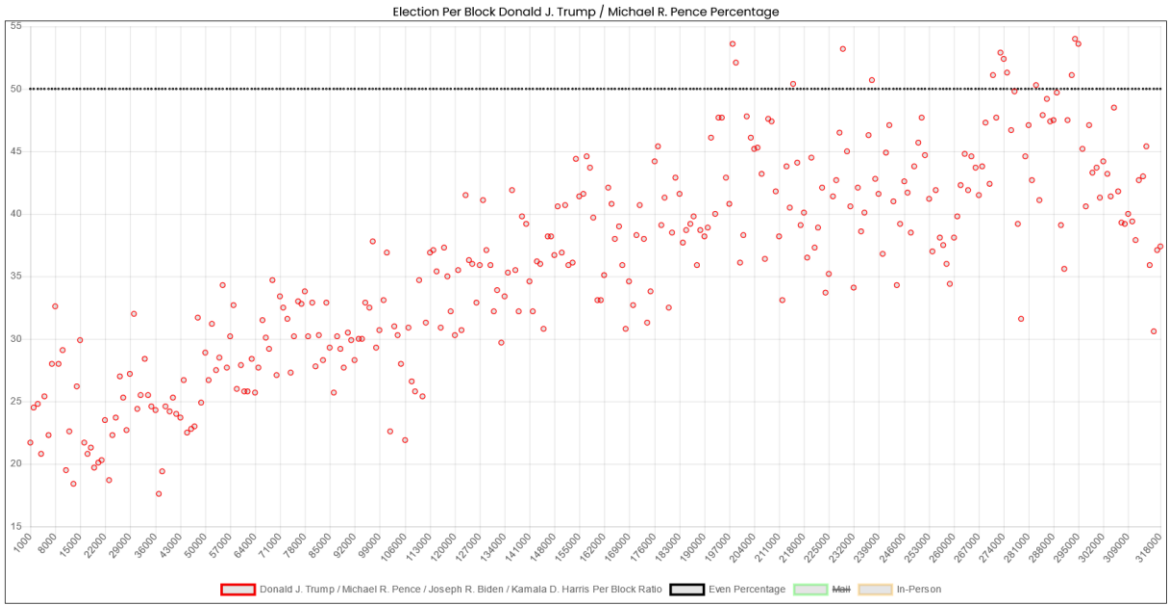
  The Colorado official results report 350,183 ballots cast for president, and the Cast Vote Record reports 350,168. Thus, **15** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 36.4% to Joseph Biden's 61.0%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.20 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

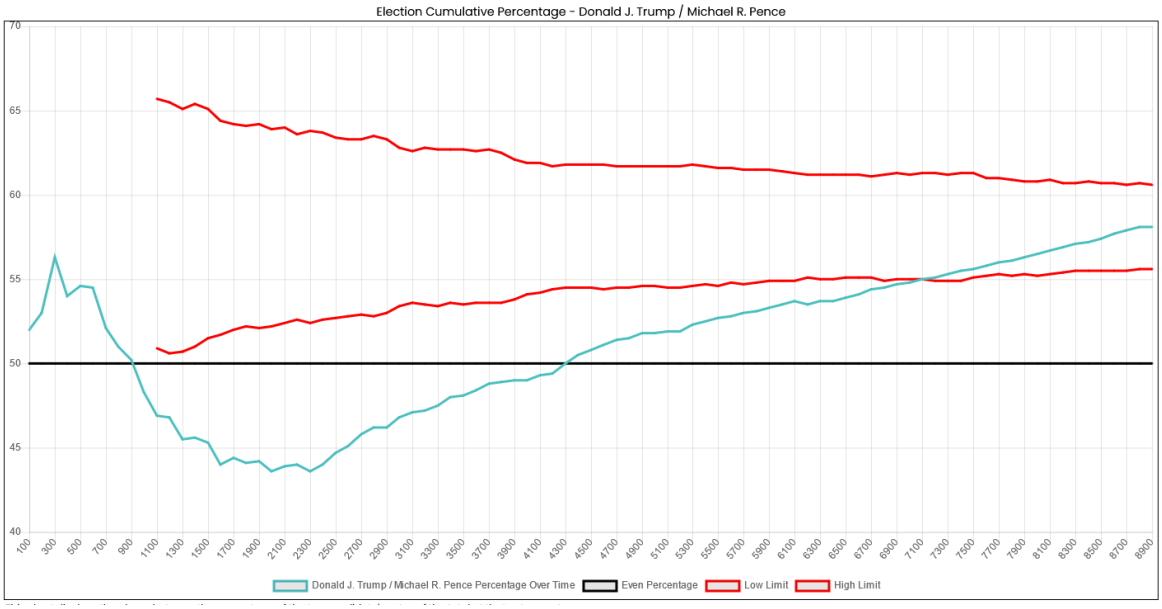


- **Archuleta County**
  Vendor: Dominion Voting Systems

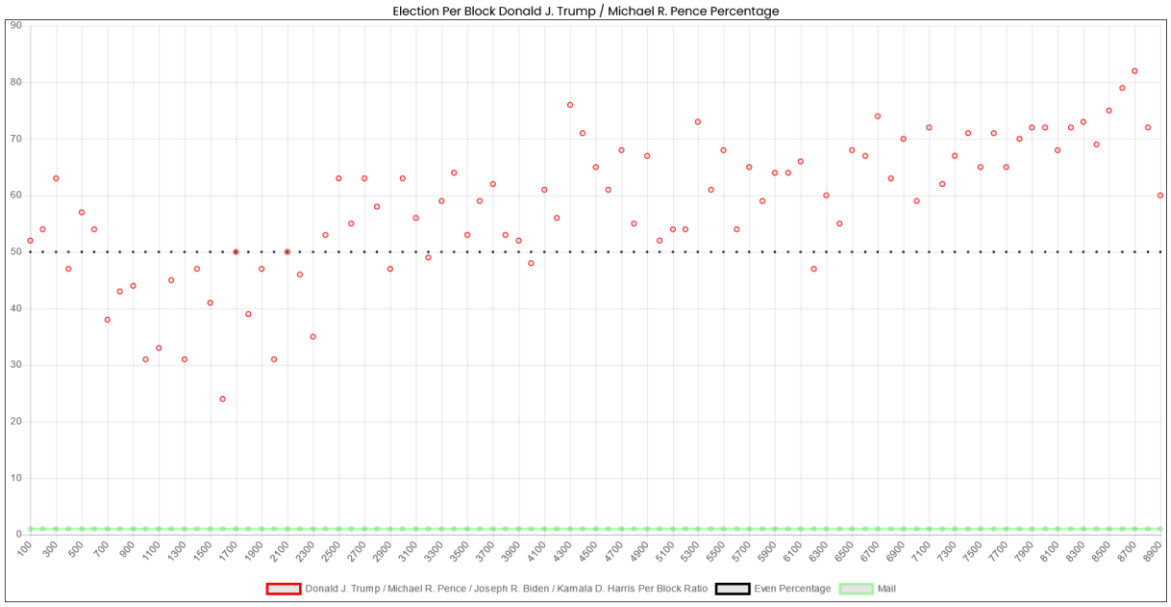
  The Colorado official results report 9,237 ballots cast for president, and the Cast Vote Record reports 9,144. Thus, **93** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 56.7% to Joseph Biden's 40.9%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.15 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

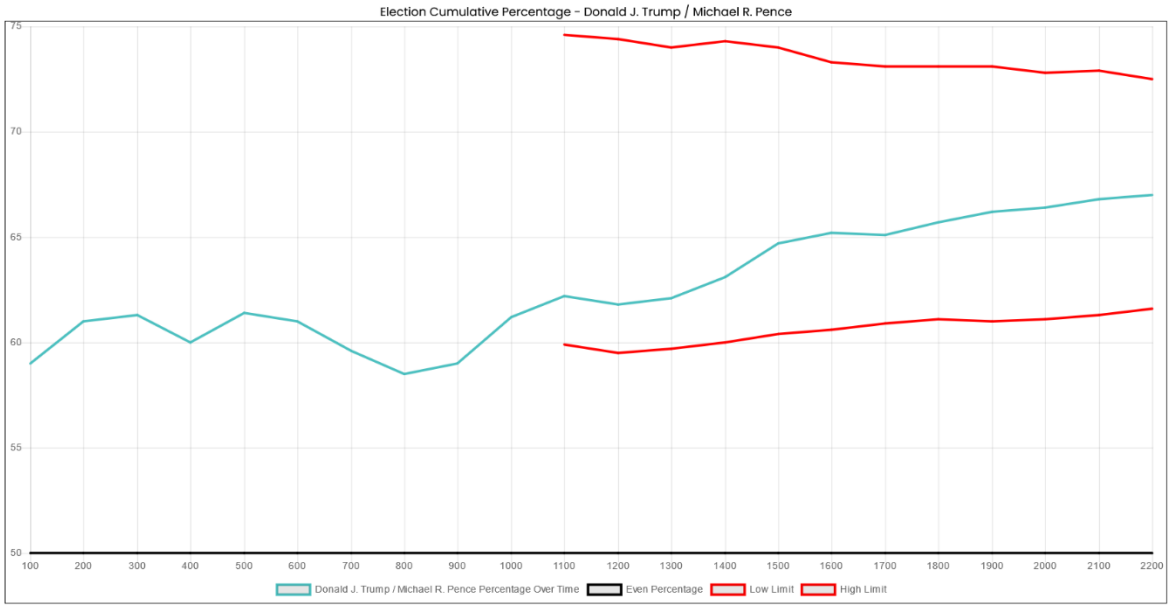


- **Bent County**
  Vendor: Dominion Voting Systems

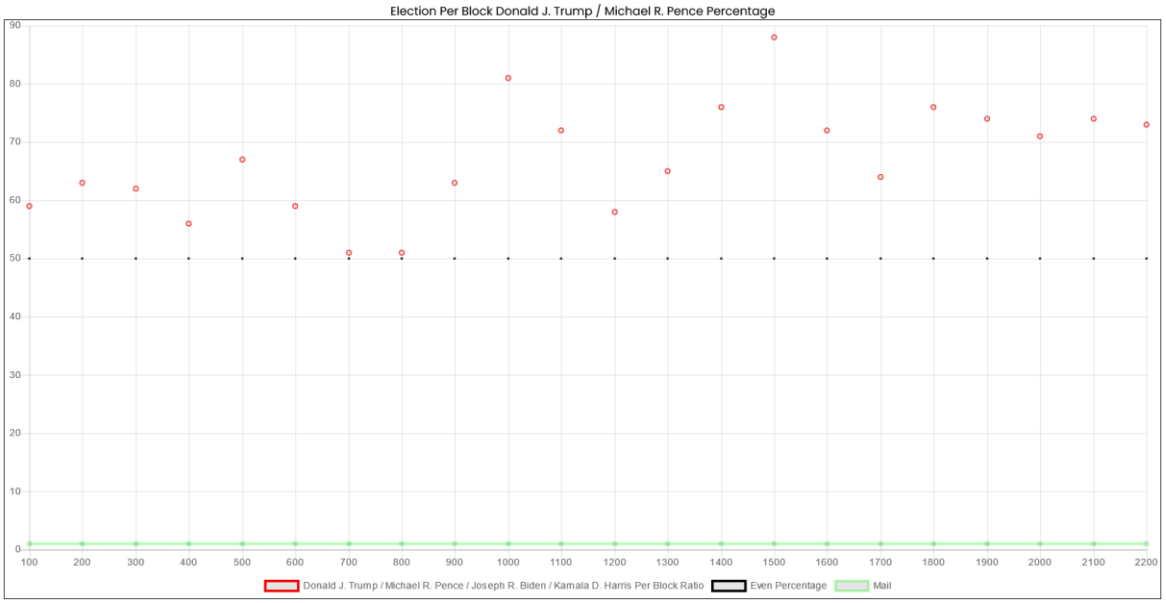
  The Colorado official results report 2,295 ballots cast for president, and the Cast Vote Record reports 2,274. Thus, **21** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 66.1% to Joseph Biden's 32.2%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.08 in favor of President Trump. The percentage plot is within the red cones.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a small rise but is indeterminate for the reasons stated above.

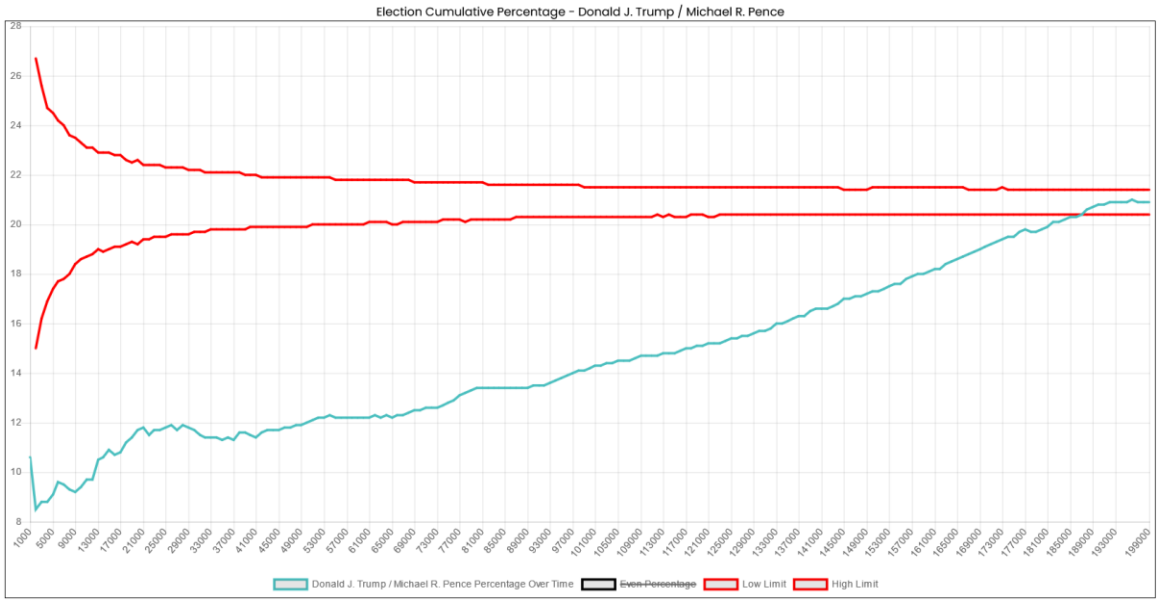


- **Boulder County**
  Vendor: Dominion Voting Systems

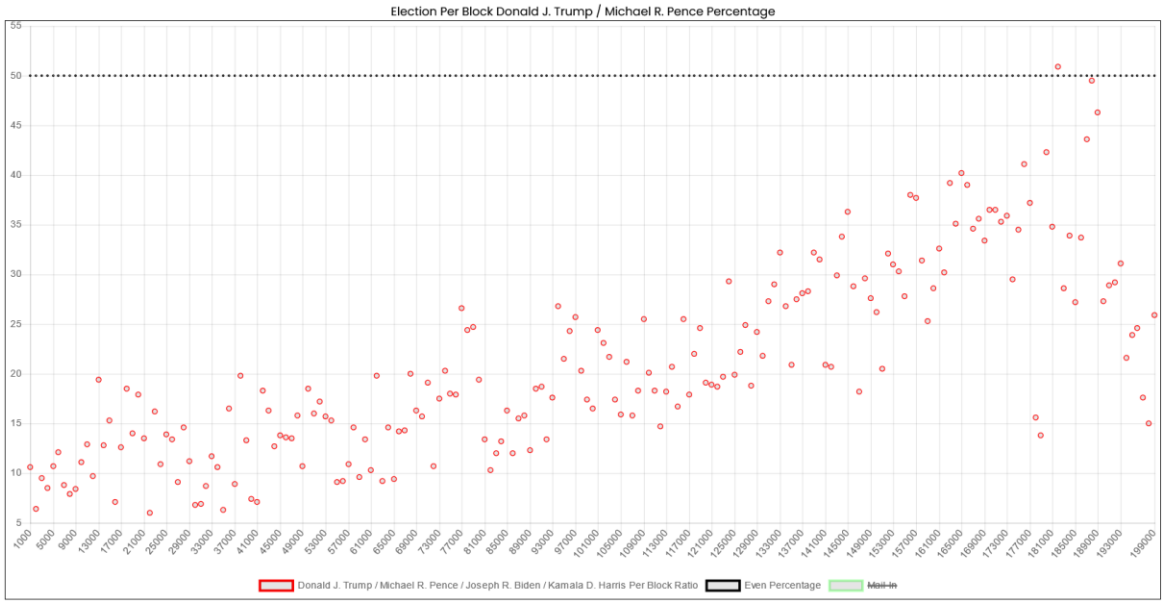
  The Colorado official results report 207,965 ballots cast for president, and the Cast Vote Record reports 203,483. Thus, **4.482** ballots were redacted. This is a relatively high number.

  According to the Cast Vote Record, President Trump lost this county with 20.5% to Joseph Biden's 77.3%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.48 in favor of President Trump. This is the highest back-end ratio yet observed.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes shows a gradual rise with a tail-off at the very end.

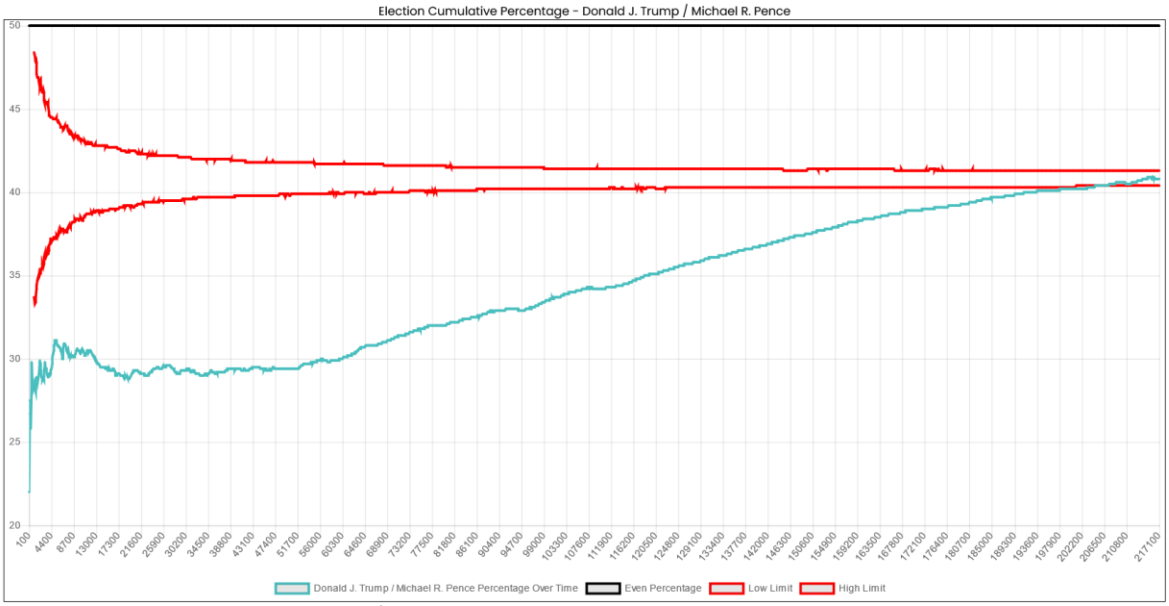


- **Broomfield County**
  Vendor: Dominion Voting Systems

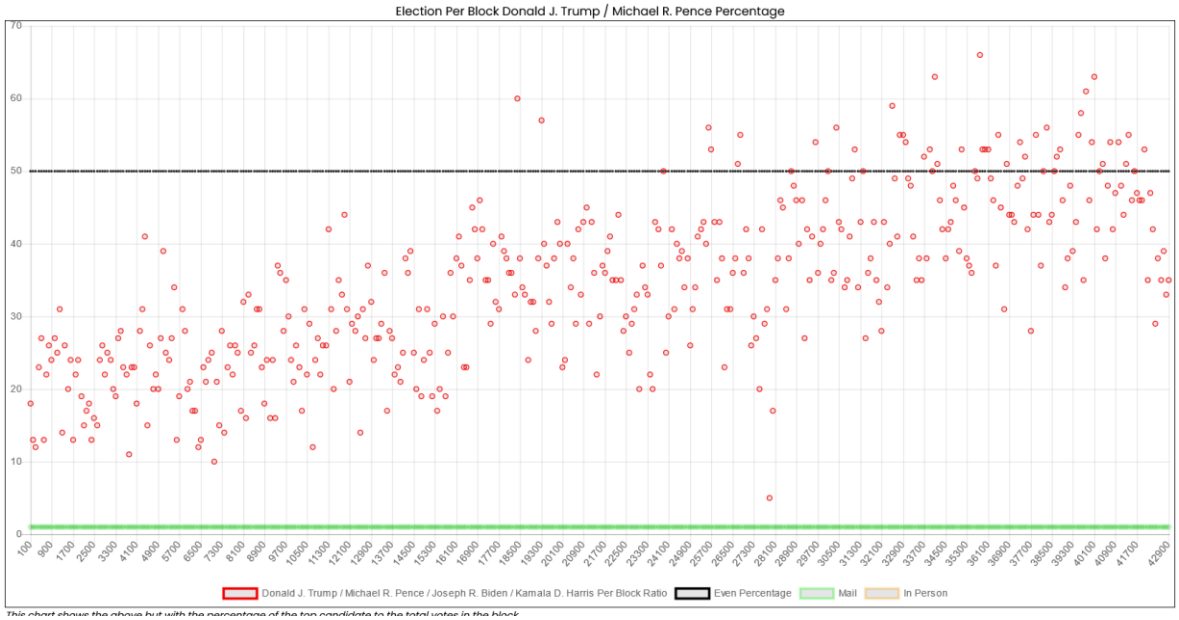
  The Colorado official results report 47,103 ballots cast for president, and the Cast Vote Record reports 46,632. Thus, **471** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 34.9% to Joseph Biden's 62.4%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.26 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

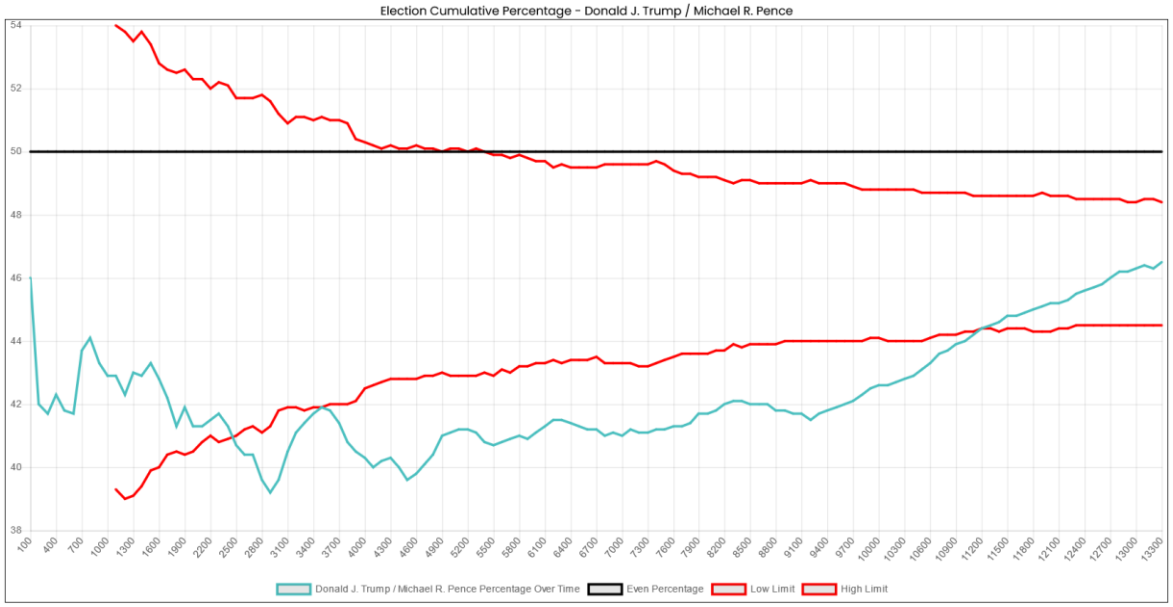


- **Chaffee County**
  Vendor: Dominion Voting Systems

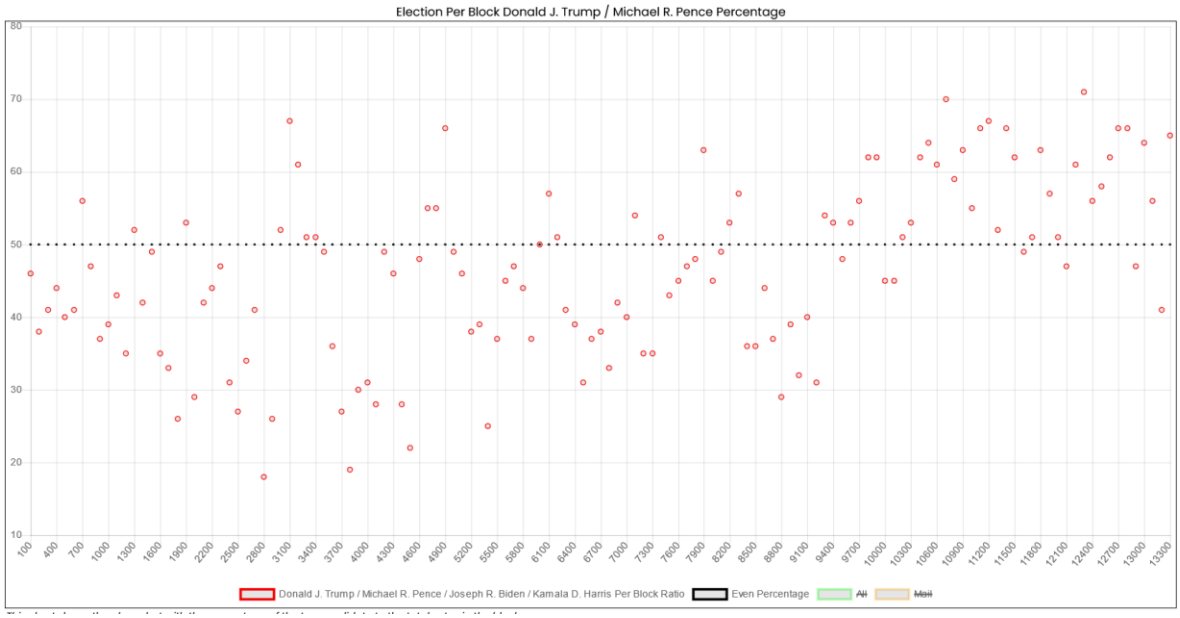
  The Colorado official results report 13,862 ballots cast for president, and the Cast Vote Record reports 13,718. Thus, **144** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 45.4% to Joseph Biden's 52.2%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.13 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.



- **Cheyenne County**
  Vendor: Dominion Voting Systems

  The Colorado official results report 1,146 ballots cast for president, and the Cast Vote Record reports 1,136. Thus, **10** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 87.4% to Joseph Biden's 11.5%

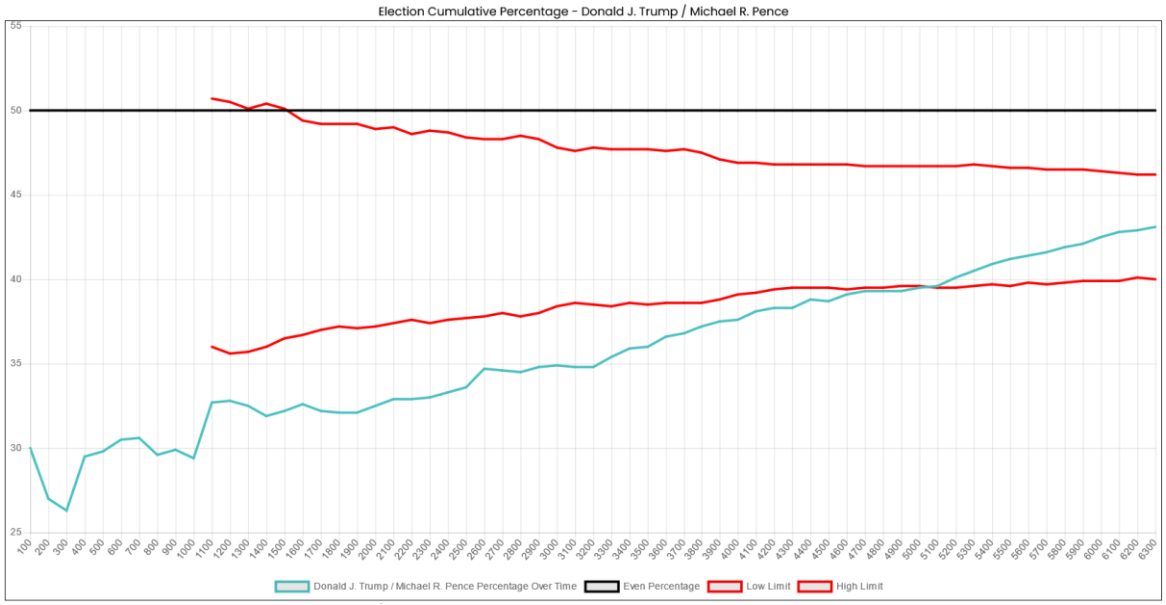
  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **Clear Creek County**
  Vendor: Dominion Voting Systems

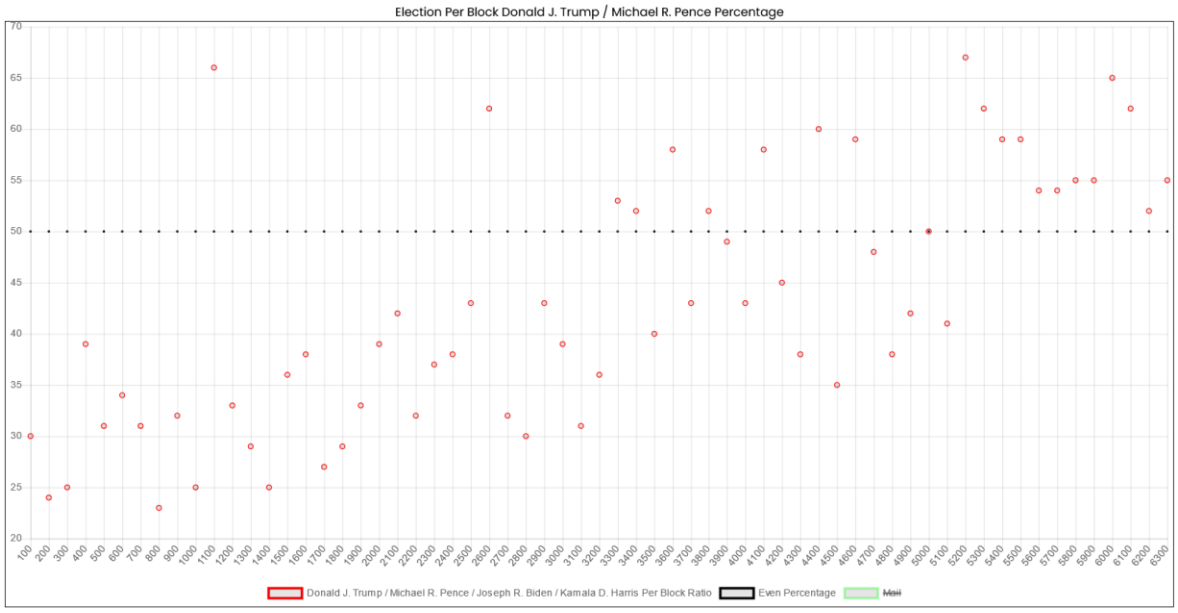
  The Colorado official results report 6,611 ballots cast for president, and the Cast Vote Record reports 6,545. Thus, **66** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 41.1% to Joseph Biden's 55.0%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.24 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds (with some interesting outliers at the blocks at 1,100 and 2,600 votes).



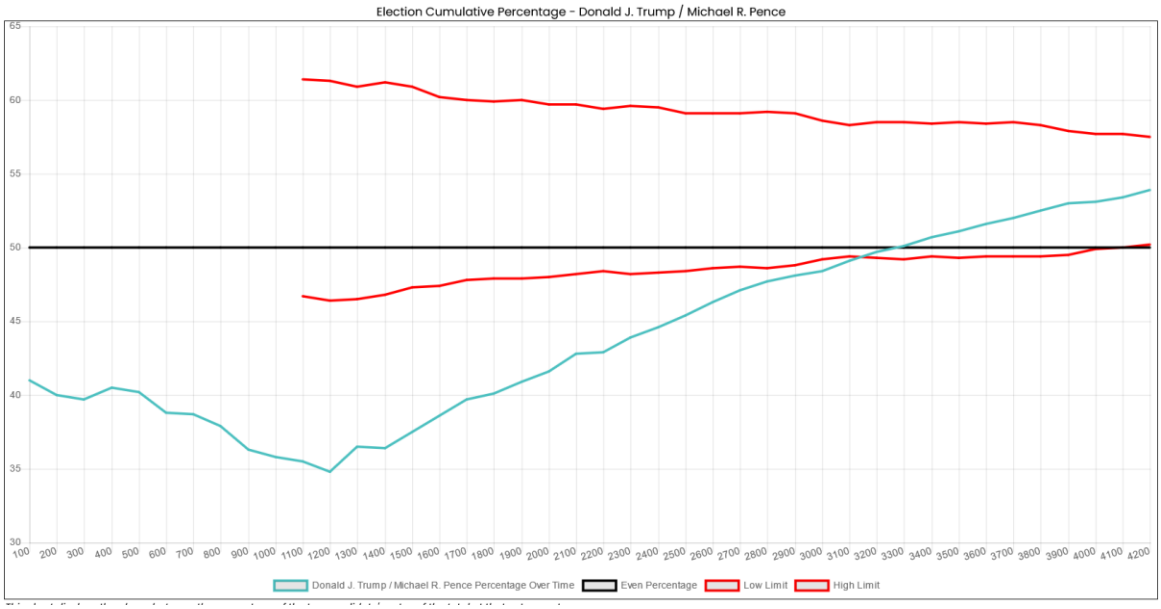
  Overall, Cory Gardner received **80** more votes in this county than President Trump, which represented 2.8% more votes.

- **Conejos County**
  Vendor: Dominion Voting Systems

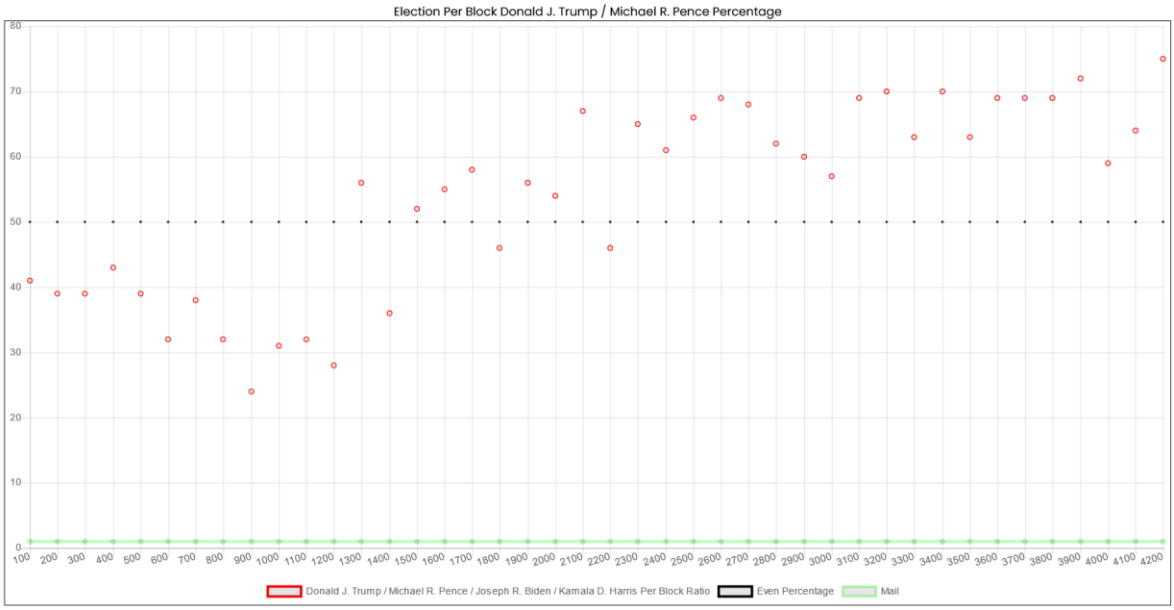
  The Colorado official results report 4,404 ballots cast for president, and the Cast Vote Record reports 4,333. Thus, **71** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 52.8% to Joseph Biden's 45.2%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.26 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds..



- **Costilla County**
  Vendor: Dominion Voting Systems

  The Colorado official results report 2,094 ballots cast for president, and the Cast Vote Record reports 2,094. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 35.4% to Joseph Biden's 62.6%.

  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **Crowley County**
  Vendor: Dominion Voting Systems

  The Colorado official results report 1,750 ballots cast for president, and the Cast Vote Record reports 1,750. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 72.6% to Joseph Biden's 25.0%.

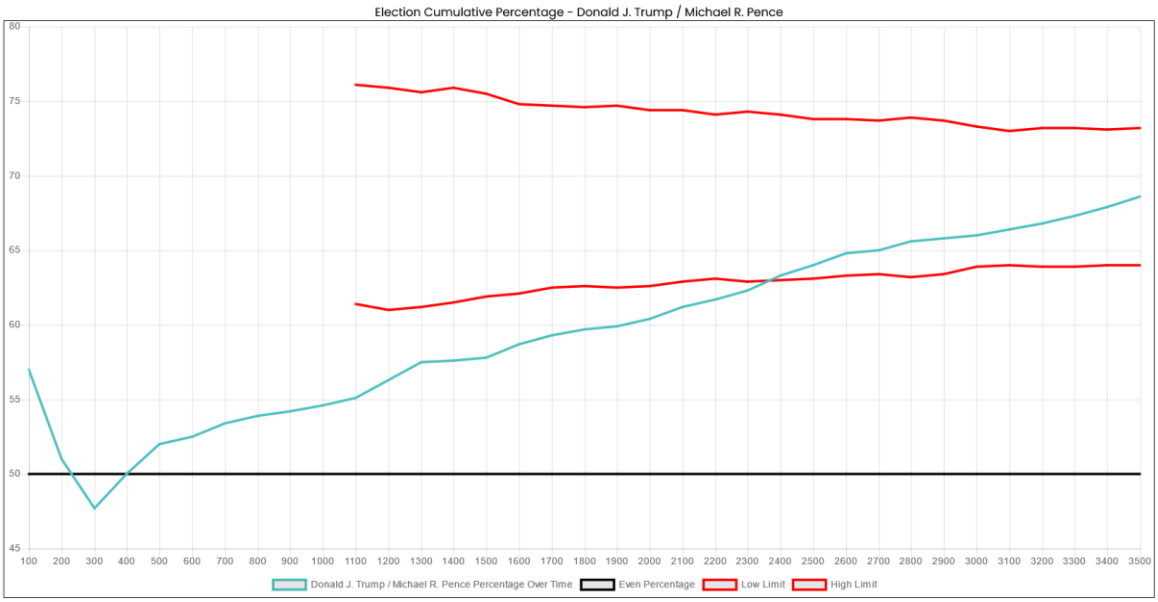
  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **<u>Custer County</u>**
  Vendor: Dominion Voting Systems

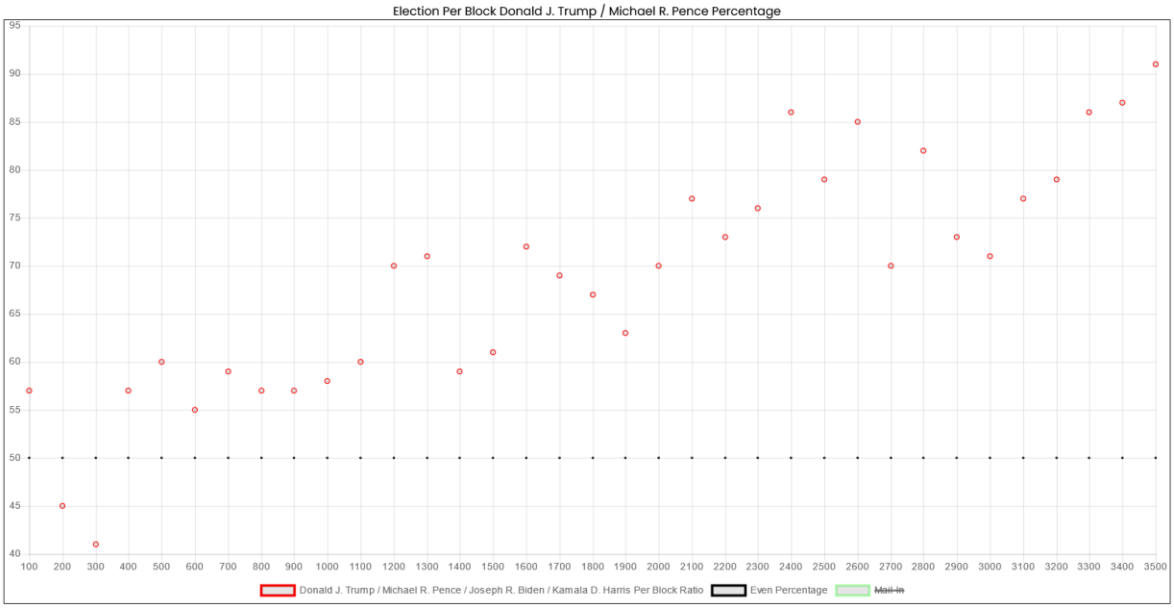
  The Colorado official results report 3,635 ballots cast for president, and the Cast Vote Record reports 3,631. Thus, **4** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 52.8% to Joseph Biden's 45.2%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

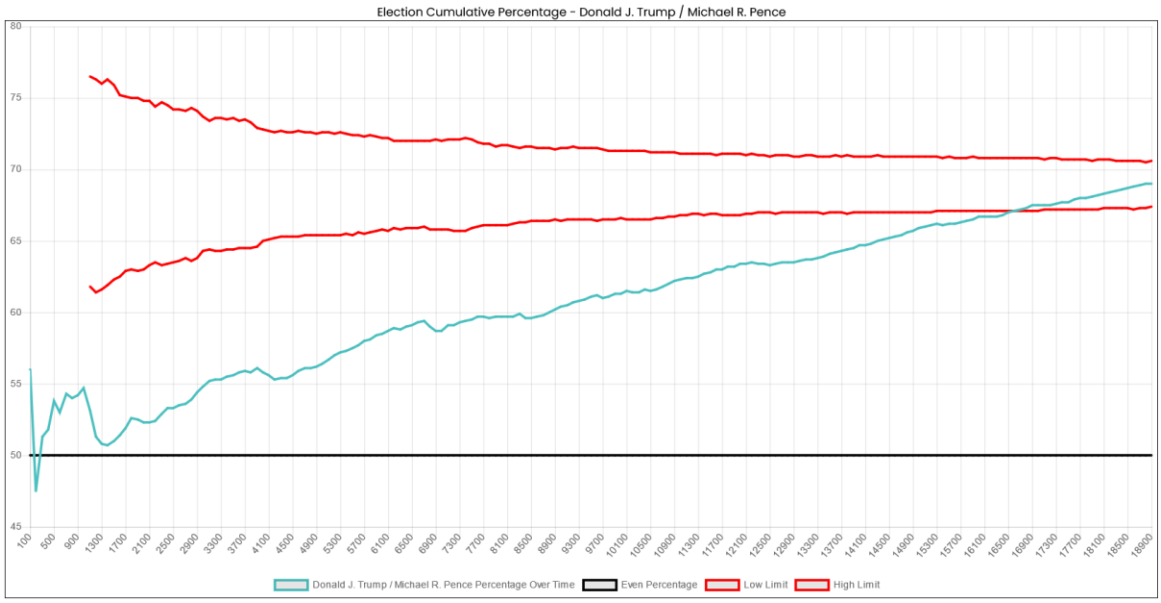


- **Delta County**
  Vendor: Dominion Voting Systems

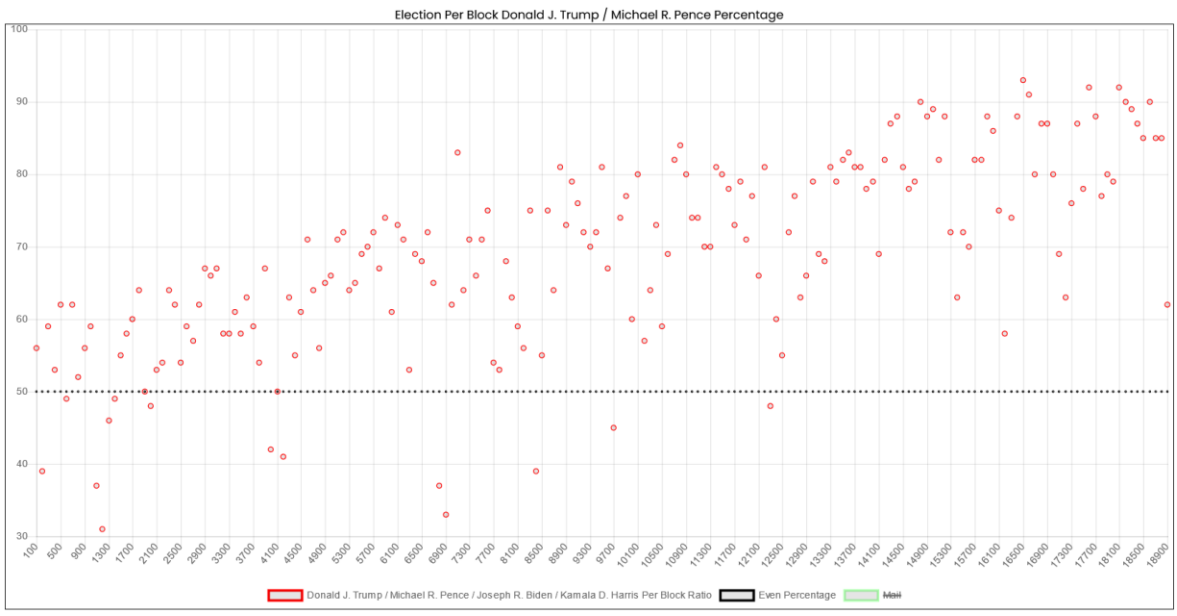
  The Colorado official results report 19,370 ballots cast for president, and the Cast Vote Record reports 19,370. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 67.5% to Joseph Biden's 30.4%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.13 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

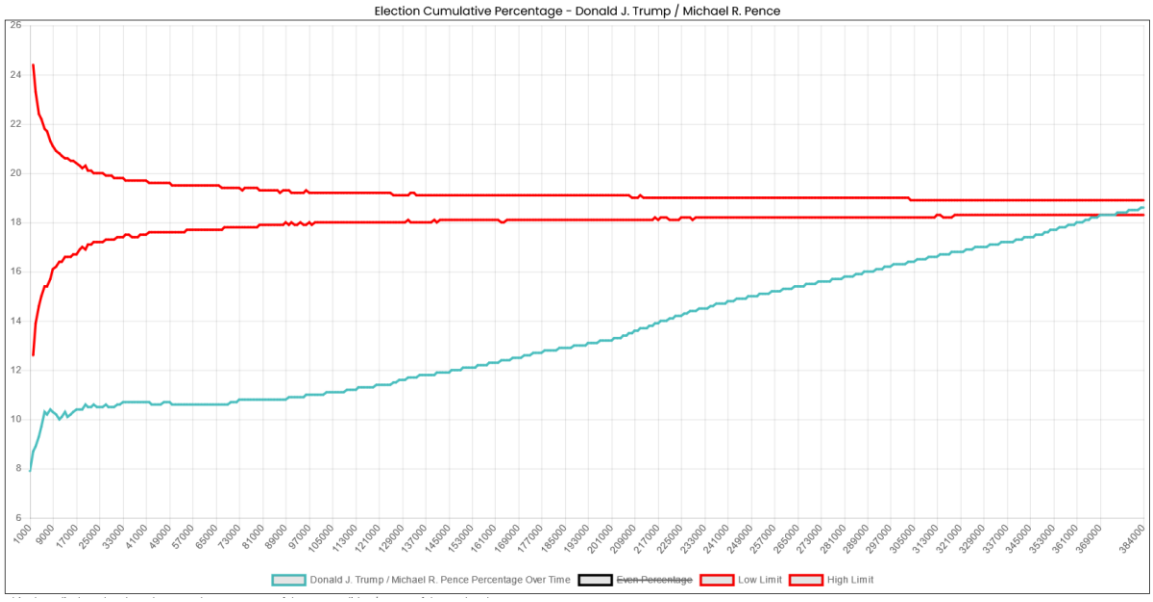


- **Denver County**
  Vendor: Dominion Voting Systems

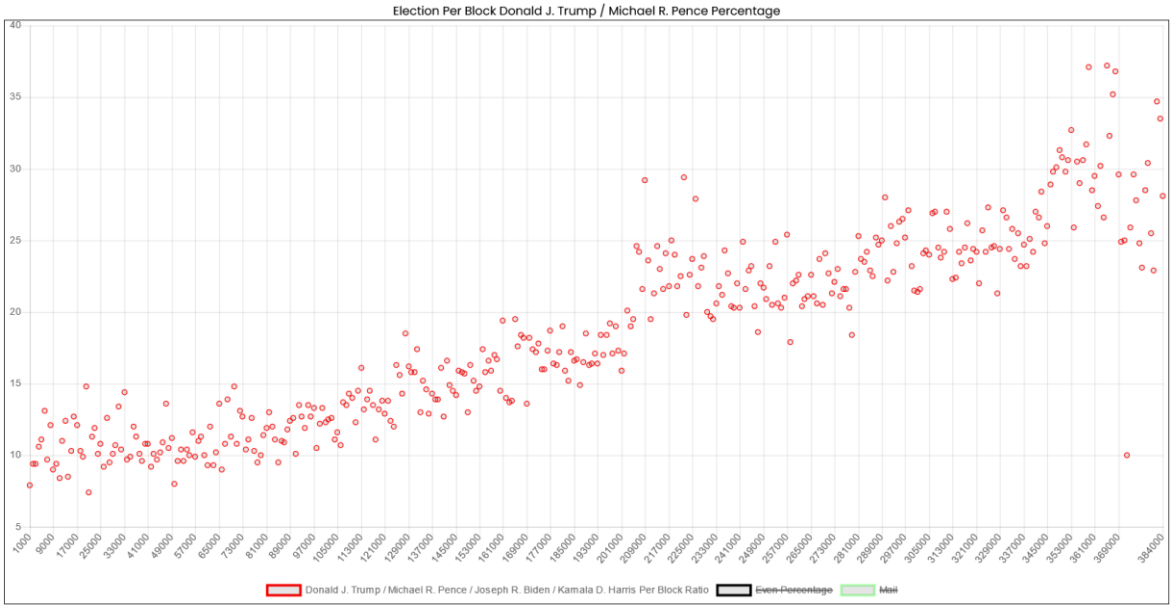
  The Colorado official results report 393,829 ballots cast for president, and the Cast Vote Record also 393,826. Thus, **3** votes were redacted.

  According to the Cast Vote Record, President Trump lost this county with 18.2% to Joseph Biden's 79.6%

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.43 in favor of President Trump. This is slightly higher than the normal 1.1 to 1.3 increase.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the block at vote 368,800, which seem quite out of place.



  Bonus finding: Overall, Cory Gardner received **8,454** more votes in this county than President Trump, which represented 10.7% more votes. **This is extremely high,** as in most counties the difference – either way – is 2-4%. This may be a further indication of manipulated votes in the Presidential race.

- **Dolores County**
  Vendor: Dominion Voting Systems

  The Colorado official results report 1,449 ballots cast for president, and the Cast Vote Record also 1,430. Thus, **19** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 75.5% to Joseph Biden's 23.2%

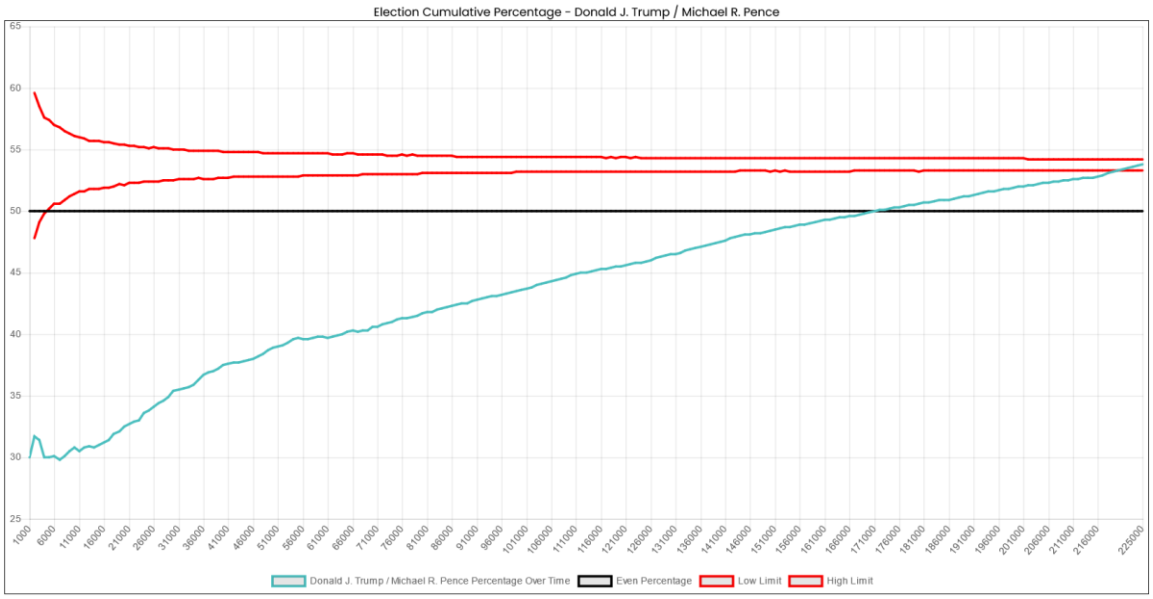
  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **Douglas County**
  Vendor: Clear Ballot

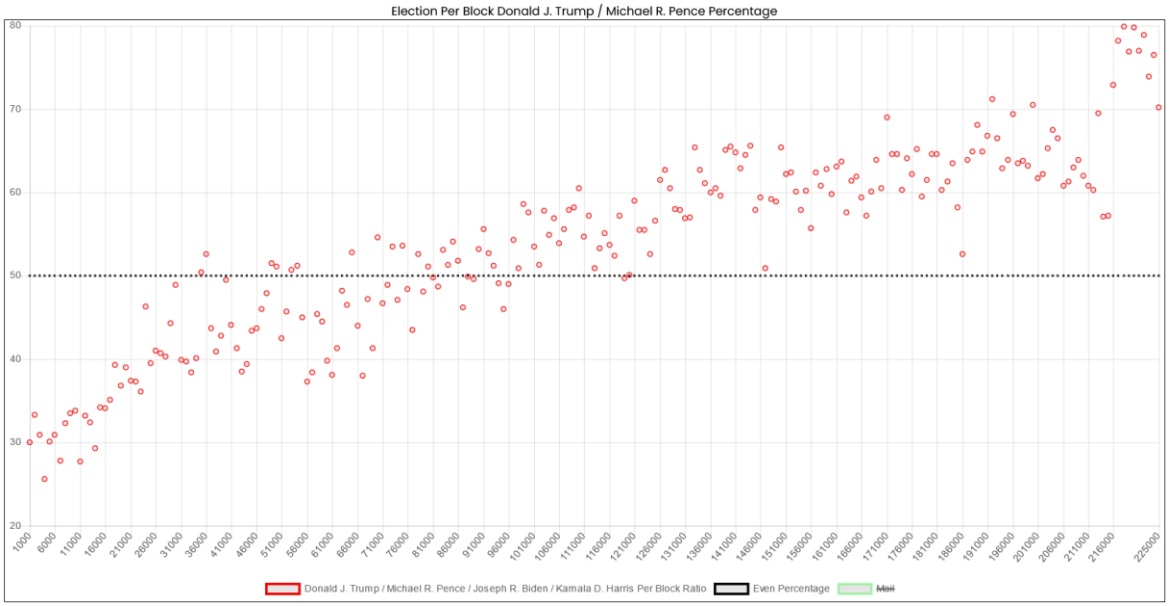
  The Colorado official results report 231,604 ballots cast for president, and the Cast Vote Record also 231,543. Thus, **61** votes were redacted.

  According to the Cast Vote Record, President Trump won this county with 52.1% to Joseph Biden's 45.0%

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.19 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the blocks at the ending portion of this chart seem to change nature and shift upwards.

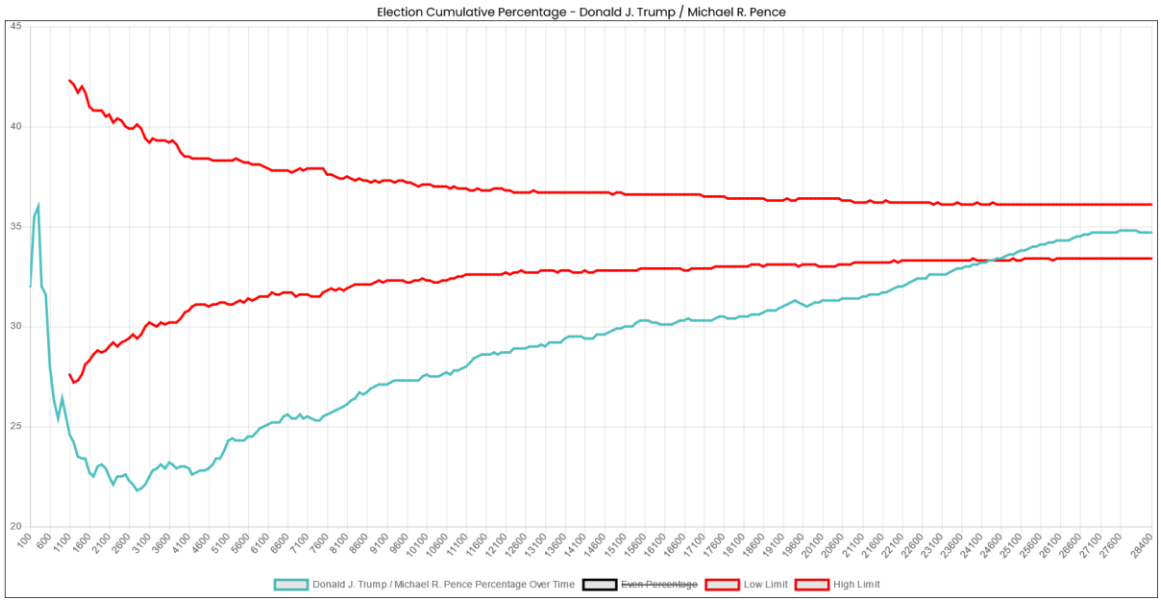


- **Eagle County**
  Vendor: Dominion Voting Systems

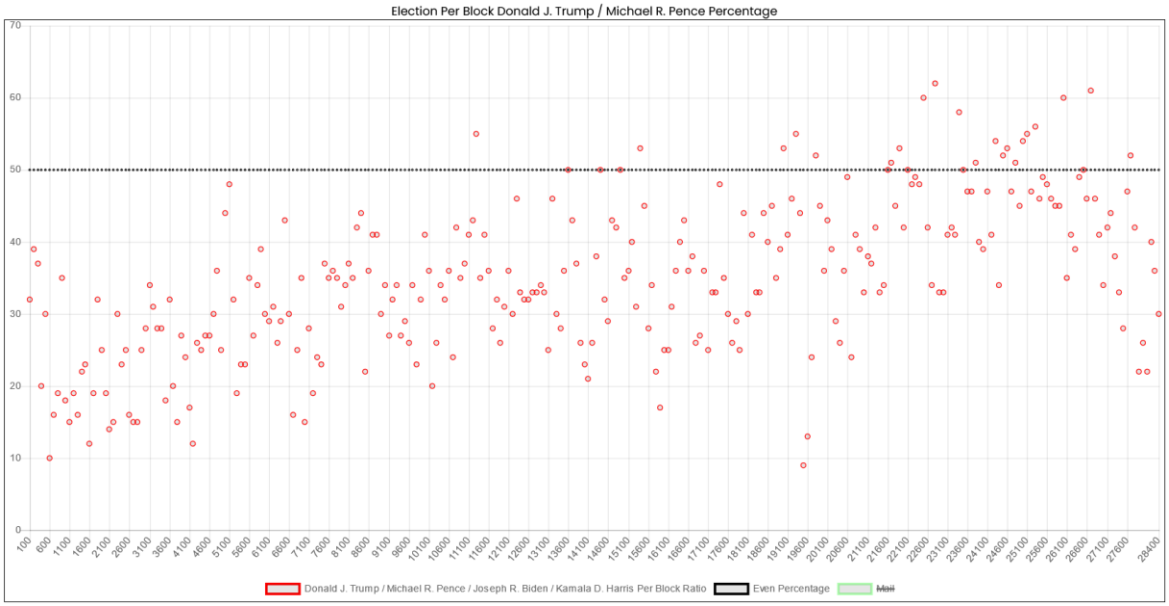
  The Colorado official results report 19,140 ballots cast for president, and the Cast Vote Record reports 19,130. Thus, **10** votes were redacted.

  According to the Cast Vote Record, President Trump lost this county with 33.9% to Joseph Biden's 63.8%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.18 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. There is a tail-off at the very end of the counting.

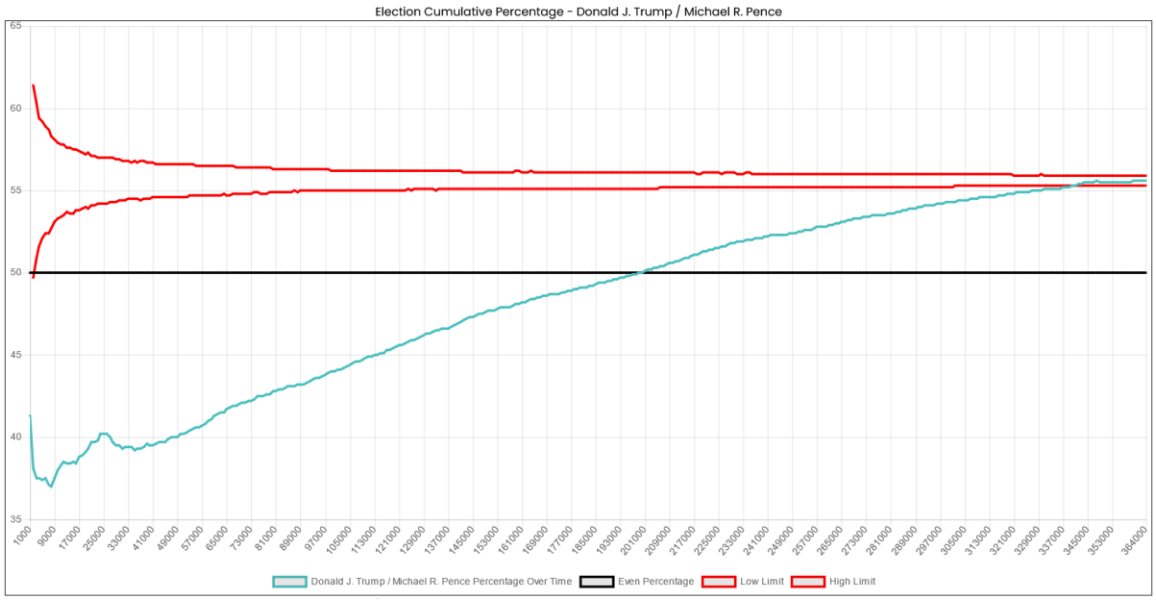


- **<u>El Paso County</u>**
  Vendor: Dominion Voting Systems

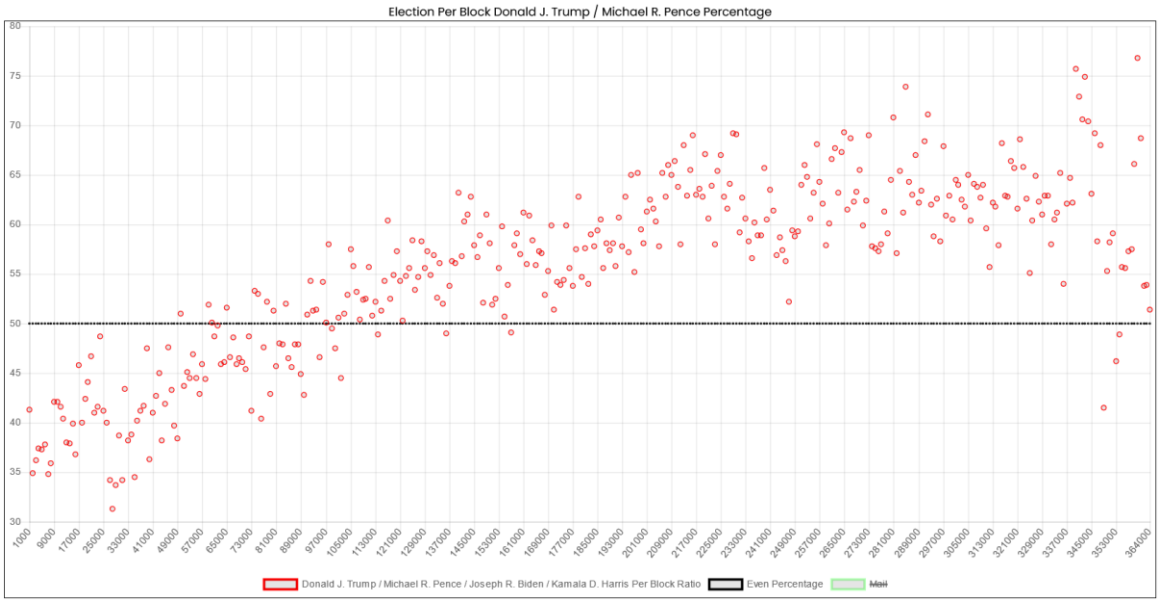
  The Colorado official results report 378,851 ballots cast for president, and the Cast Vote Record reports 378,816. Thus, **35** votes were redacted.

  According to the Cast Vote Record, President Trump won this county with 53.5% to Joseph Biden's 42.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.13 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the blocks at the ending portion of this chart seem to change nature.

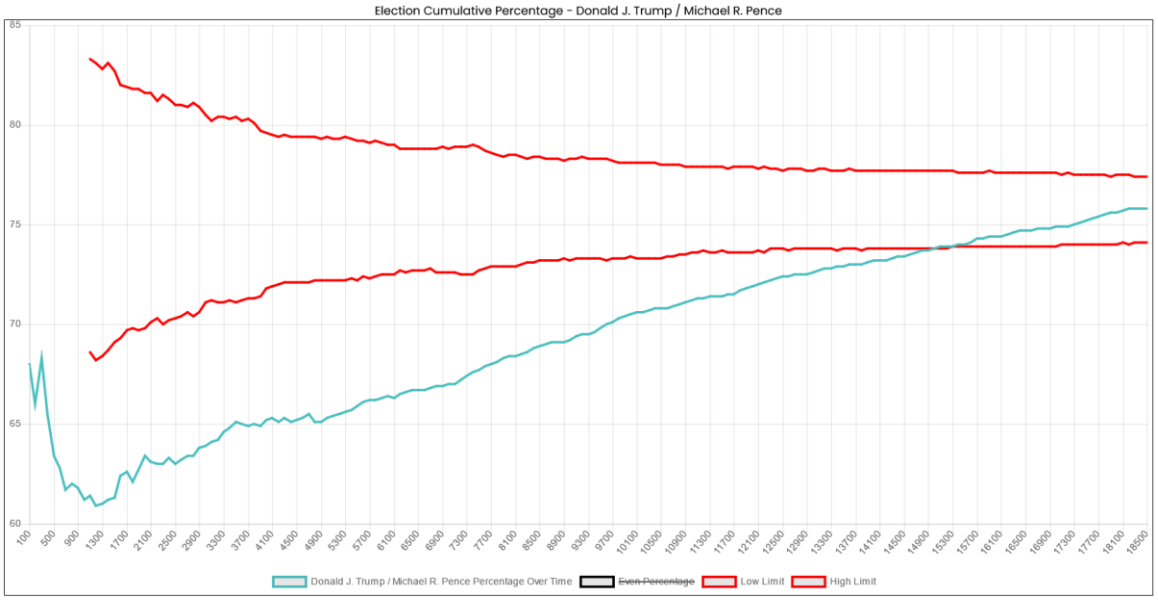


- **Elbert County**
  Vendor: Dominion Voting Systems

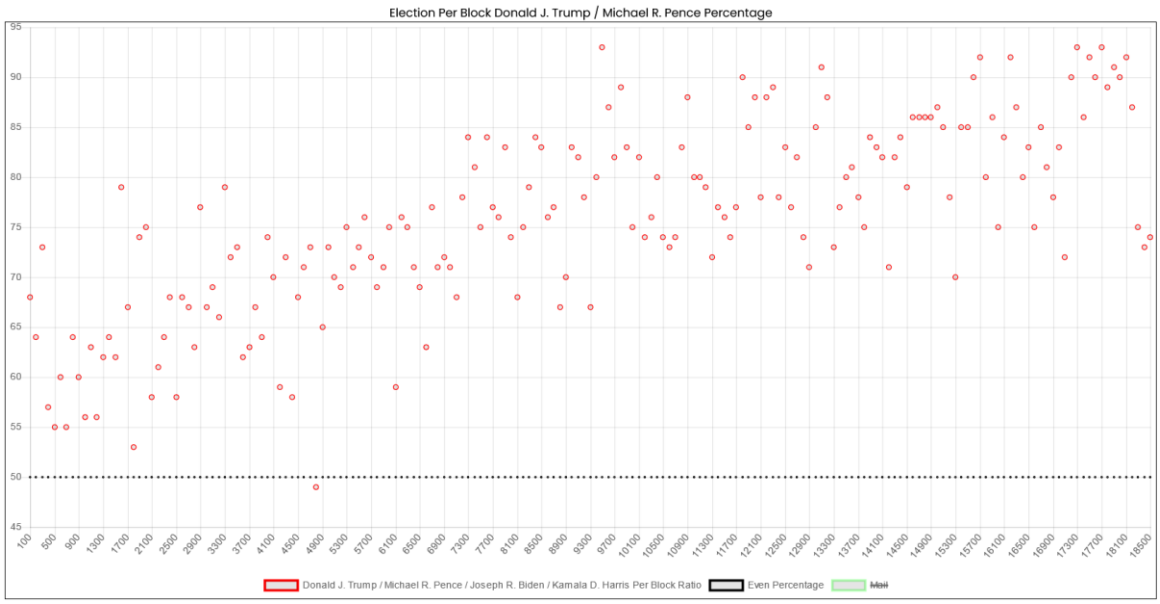
  The Colorado official results report 18,983 ballots cast for president, and the Cast Vote Record reports 18,983. Thus, no ballot records were redacted.

  According to the Cast Vote Record, President Trump won this county with 73.9% to Joseph Biden's 23.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.09 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

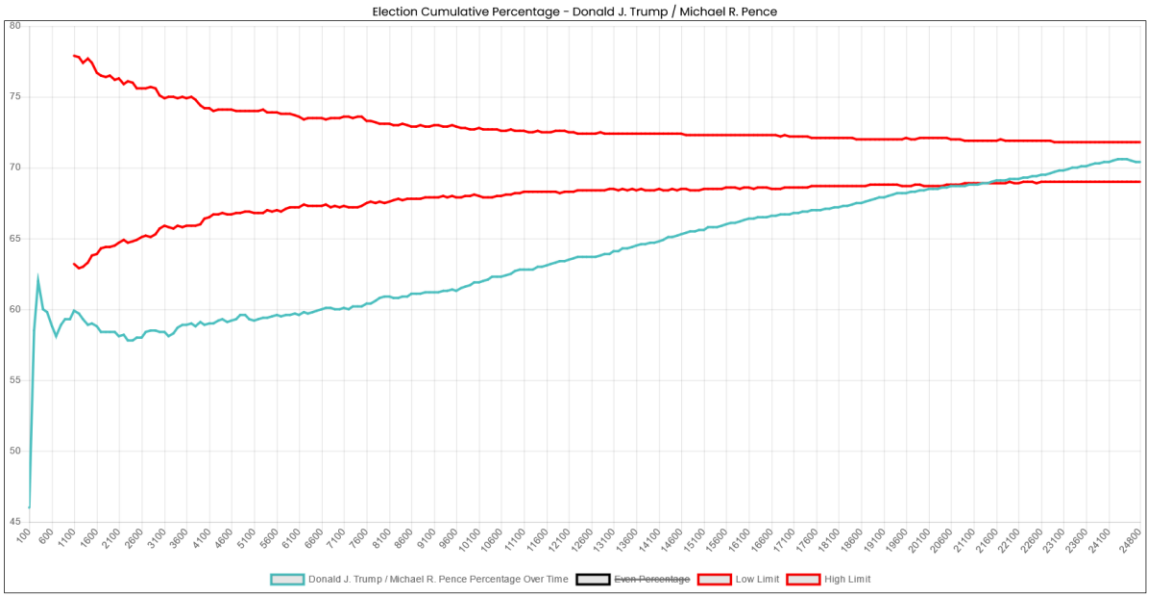


- **Fremont County**
  Vendor: Dominion Voting Systems

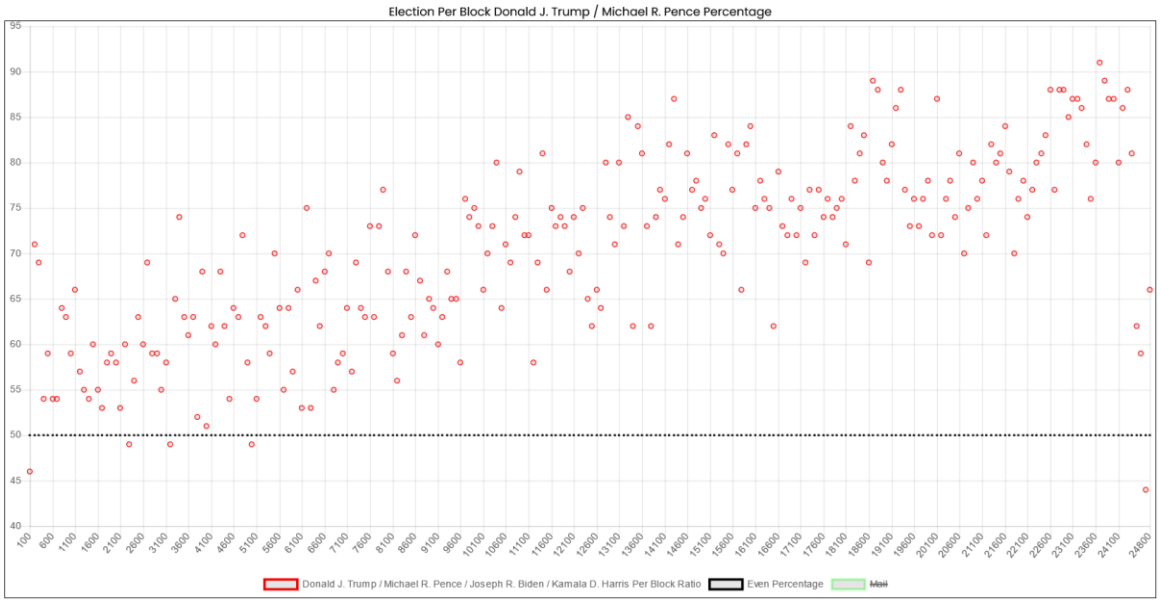
  The Colorado official results report 25,557 ballots cast for president, and the Cast Vote Record reports 25,557. Thus, no ballot records were redacted.

  According to the Cast Vote Record, President Trump won this county with 68.5% to Joseph Biden's 28.8%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.11 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. The last four blocks (400 votes) show a different, lower pattern.

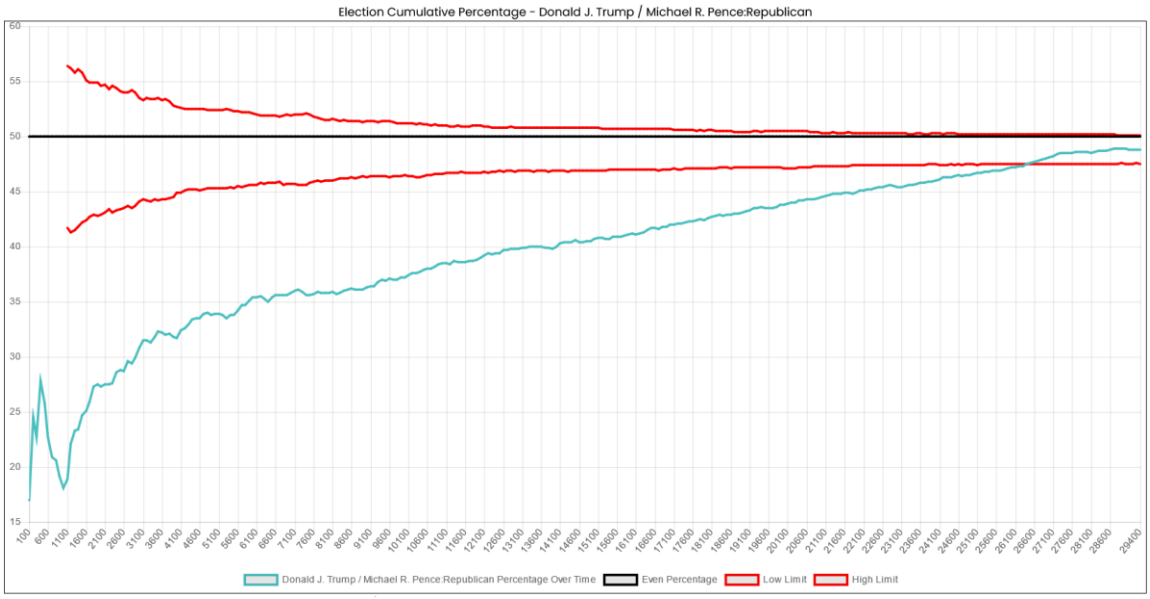


- **Garfield County**
  Vendor: Clear Ballot

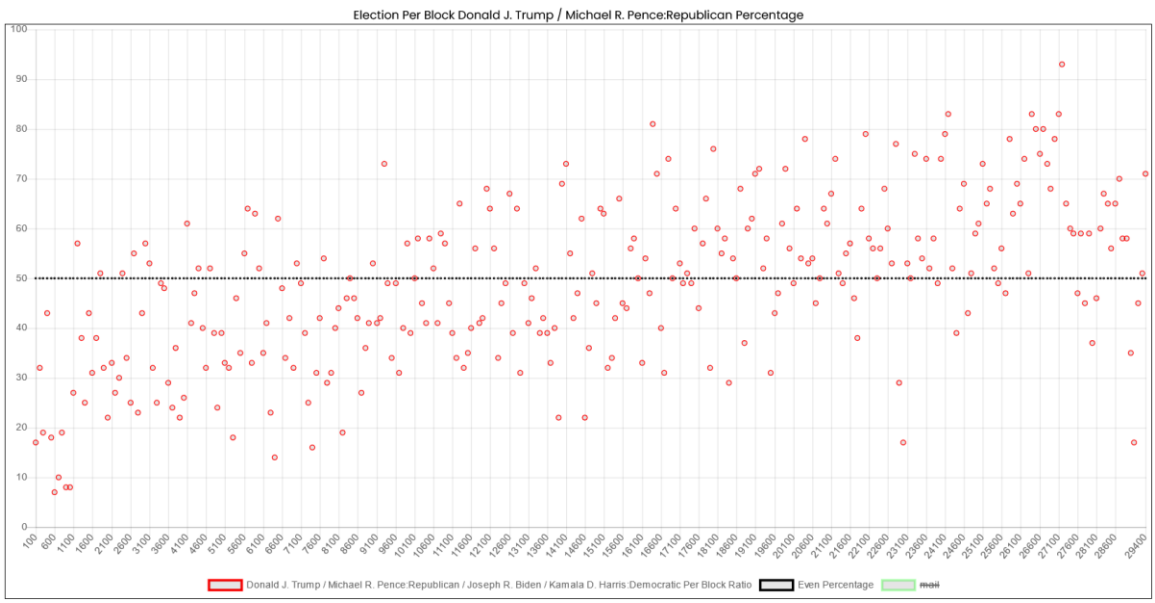
  The Colorado official results report 30,904 ballots cast for president, and the Cast Vote Record reports 30,114. Thus, **790** ballot records were redacted.

  According to the Cast Vote Record, President Trump lost this county with 47.8% to Joseph Biden's 50.0%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.21 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

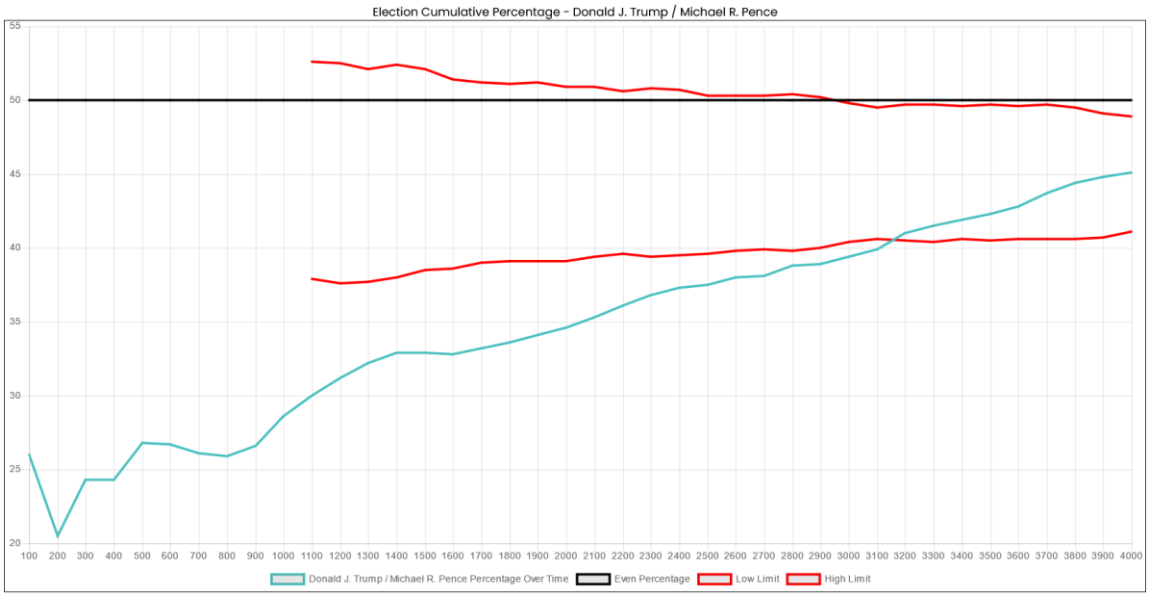


- **Gilpin County**
  Vendor: Dominion Voting Systems

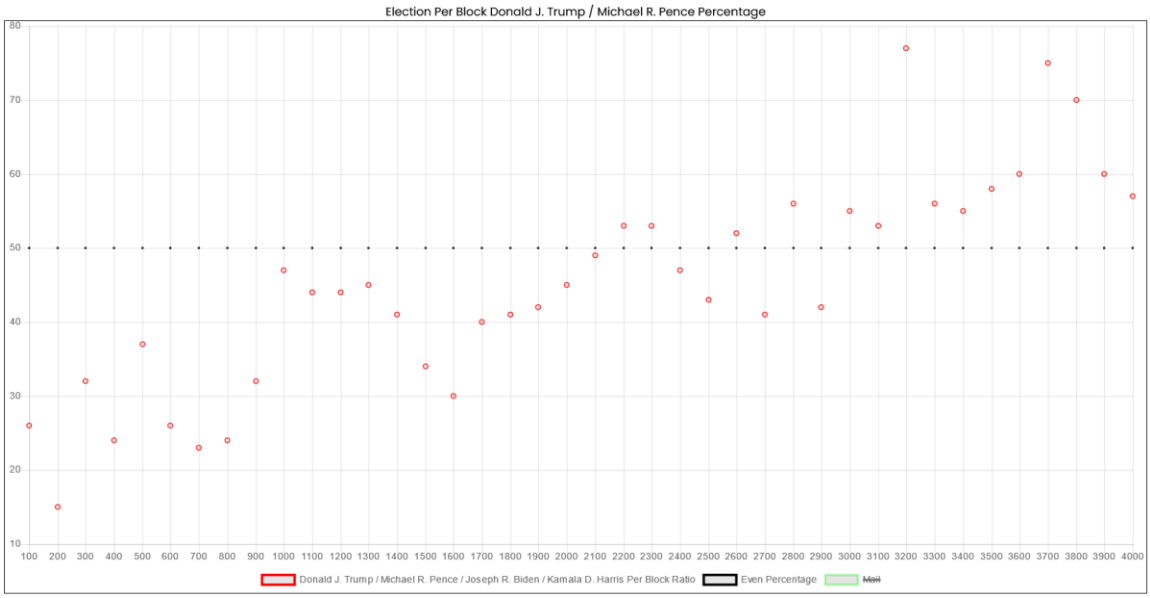
  The Colorado official results report 4,186 ballots cast for president, and the Cast Vote Record reports 4,186. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 43.8% to Joseph Biden's 53.1%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.30 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. The block at vote 3,300 seems out of place.

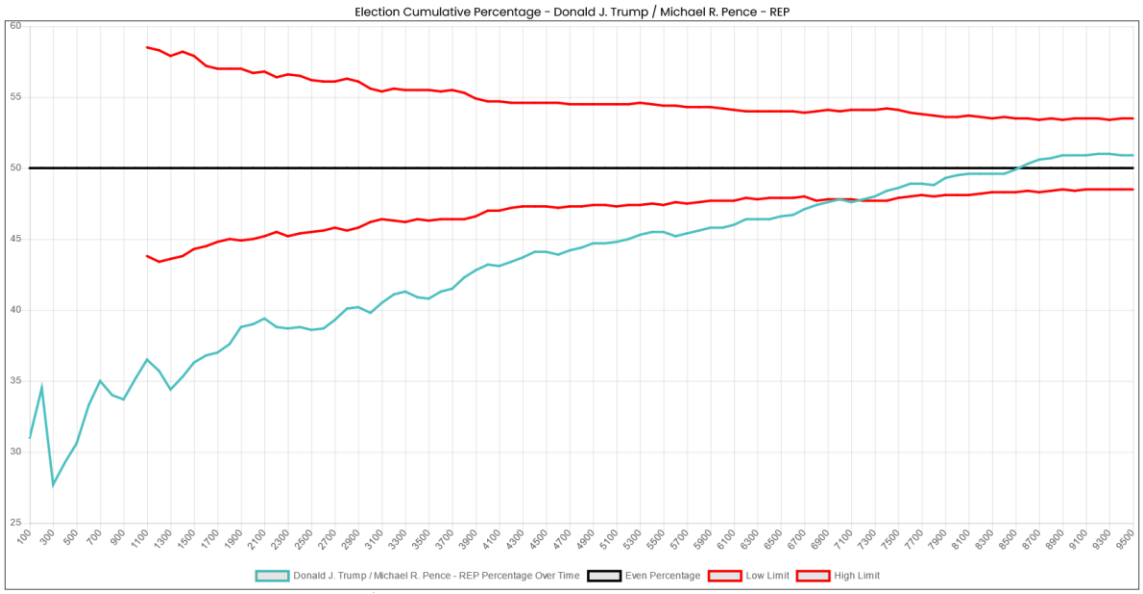


- **Grand County**
  Vendor: Dominion Voting Systems

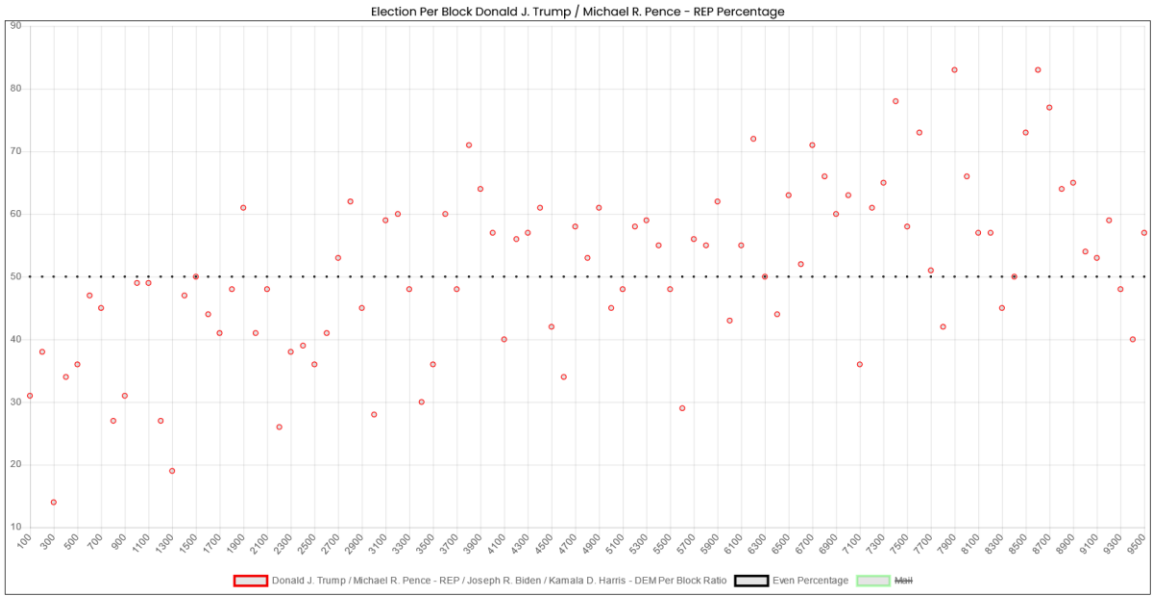
  The Colorado official results report 9,870 ballots cast for president, and the Cast Vote Record Reports 9,869. Thus, **1** ballot was redacted.

  According to the Cast Vote Record, President Trump lost this county with 49.5% to Joseph Biden's 47.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.15 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. The last few blocks seem out of place.

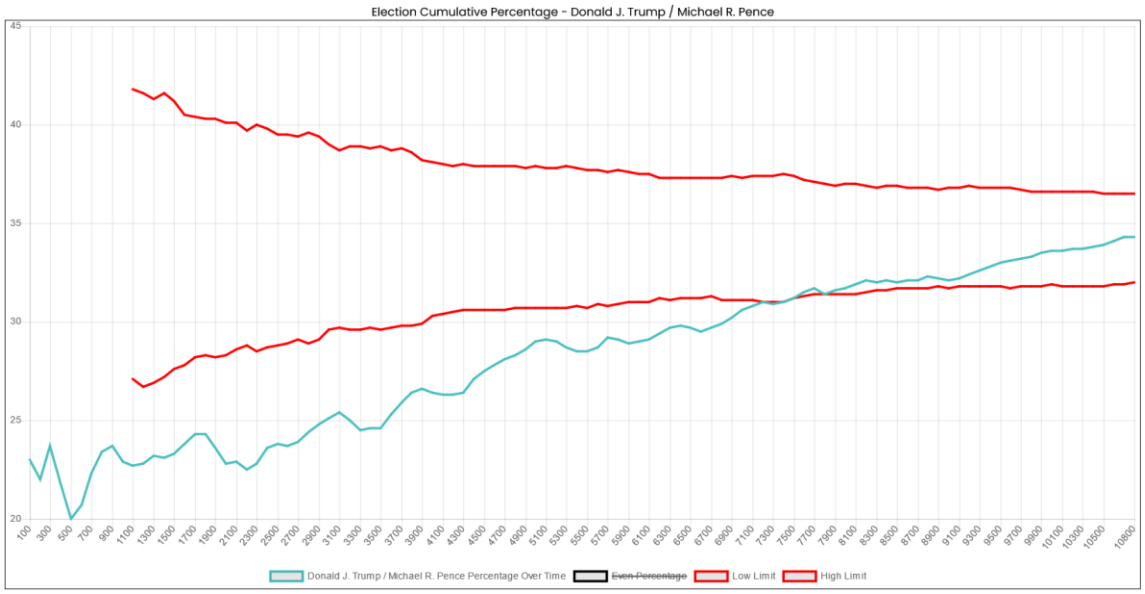


- **<u>Gunnison County</u>**
  Vendor: Dominion Voting Systems

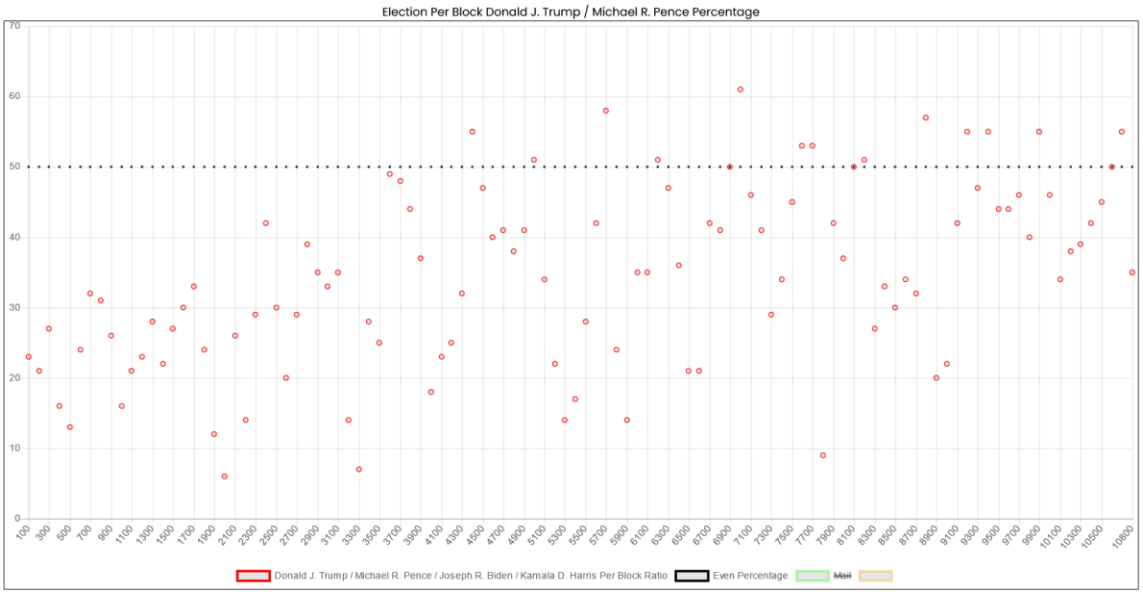
  The Colorado official results report 11,190 ballots cast for president, and the Cast Vote Record reports 11,190. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 33.4% to Joseph Biden's 63.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.20 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.



- **Hinsdale County**
  Vendor: Dominion Voting Systems

  The Colorado official results report 632 ballots cast for president, and the Cast Vote Record reports 632. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 55.9% to Joseph Biden's 40.3%.

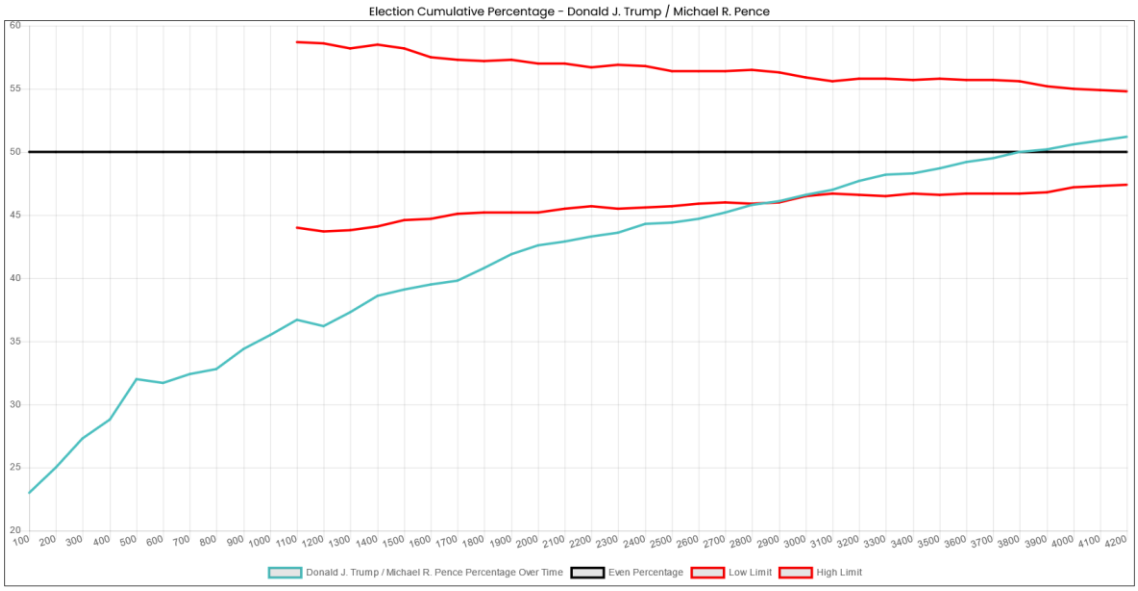
  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **<u>Huerfano County</u>**
  Vendor: Dominion Voting Systems

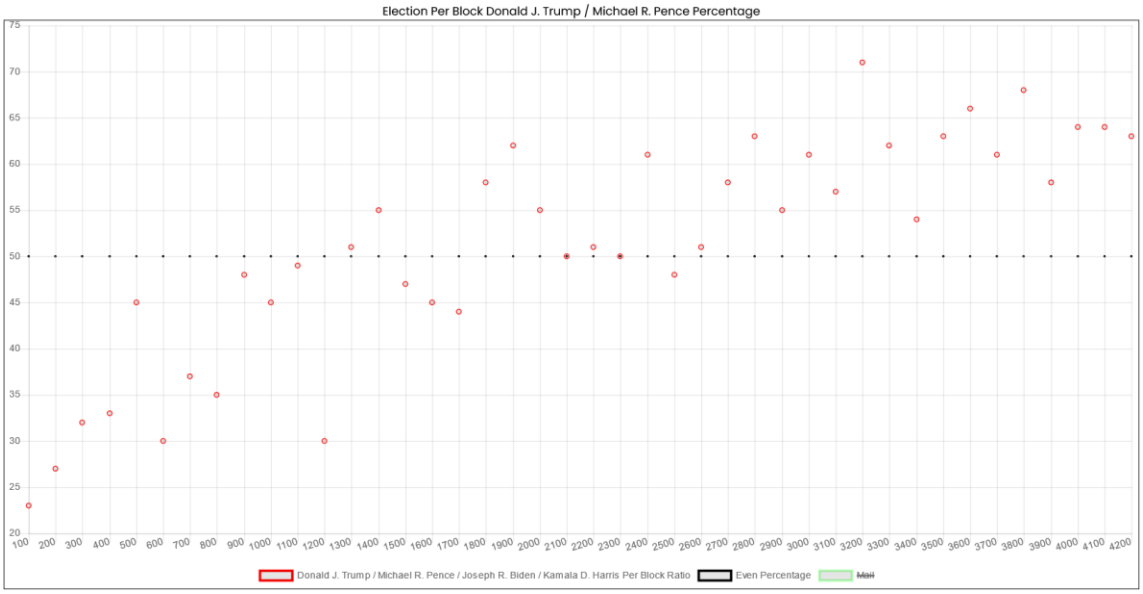
  The Colorado official results report 4,406 ballots cast for president, and the Cast Vote Record reports 4.406. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 50.0% to Joseph Biden's 47.1%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.19 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.



- **Jackson County**
  Vendor: Dominion Voting Systems

  The Colorado official results report 876 ballots cast for president, and the Cast Vote Record reports 873. Thus, **3** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 77.9% to Joseph Biden's 19.8%.

  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

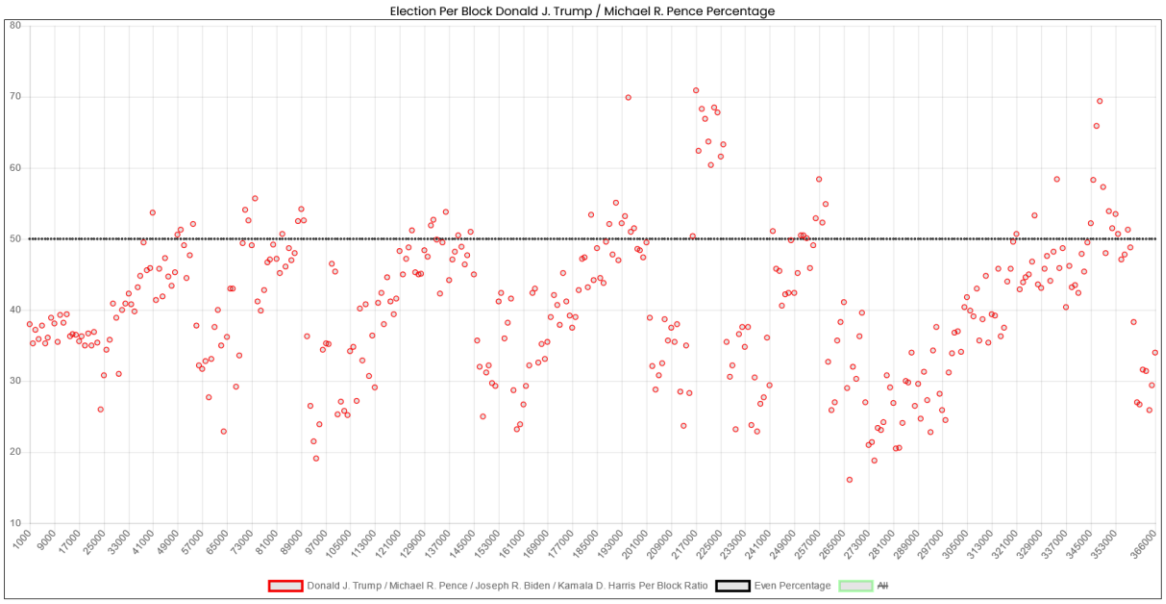
- **Jefferson County**
  Vendor: Dominion Voting Systems

  The Colorado official results report 377,358 ballots cast for president, and the Cast Vote Record reports 377,322. Thus, **26** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 39.3% to Joseph Biden's 57.9%.

  Jefferson County deleted crucial columns – most notably the Cast Vote Record Sequence Number - from the Cast Vote Record file and sorted the resulting edited file by Tabulator number and batch number. This makes the full file impossible to evaluate for the Mesa Pattern, and the reasons behind this redaction should be investigated.

  Interestingly however, when viewing the block ratio in the provided order, one sees a repeated upward pattern, leading me to believe that the Cast Vote Record was sorted by tabulator, and each tabulator is showing its own variation of the Mesa Pattern. Without the critical missing information, it is impossible to prove for certain.



- **<u>Kiowa County</u>**
  Vendor: Dominion Voting Systems

  The Colorado official results report 903 ballots cast for president, and the Cast Vote Record reports 903. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 88.0% to Joseph Biden's 10.9%.

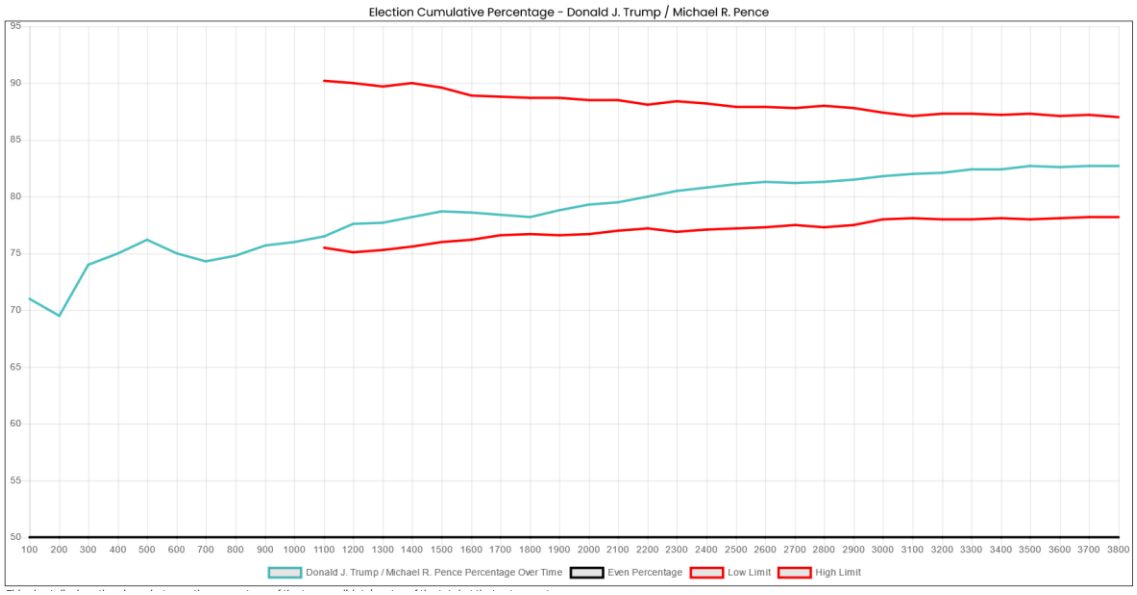
  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **<u>Kit Carson County</u>**
  Vendor: Dominion Voting Systems

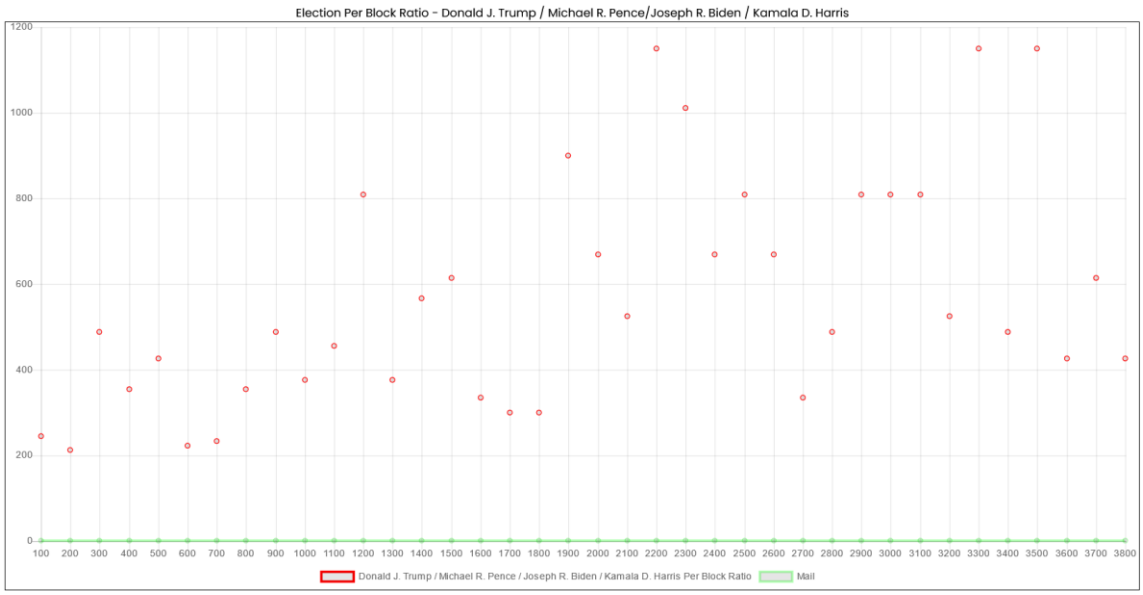
  The Colorado official results report 3,871 ballots cast for president, and the Cast Vote Record reports 3,871. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 81.2% to Joseph Biden's 17.1%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.19 in favor of President Trump. The plot of the percentage fits within the red cone.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a general rise as the counting proceeds, but it is not as drastic as most of the others.

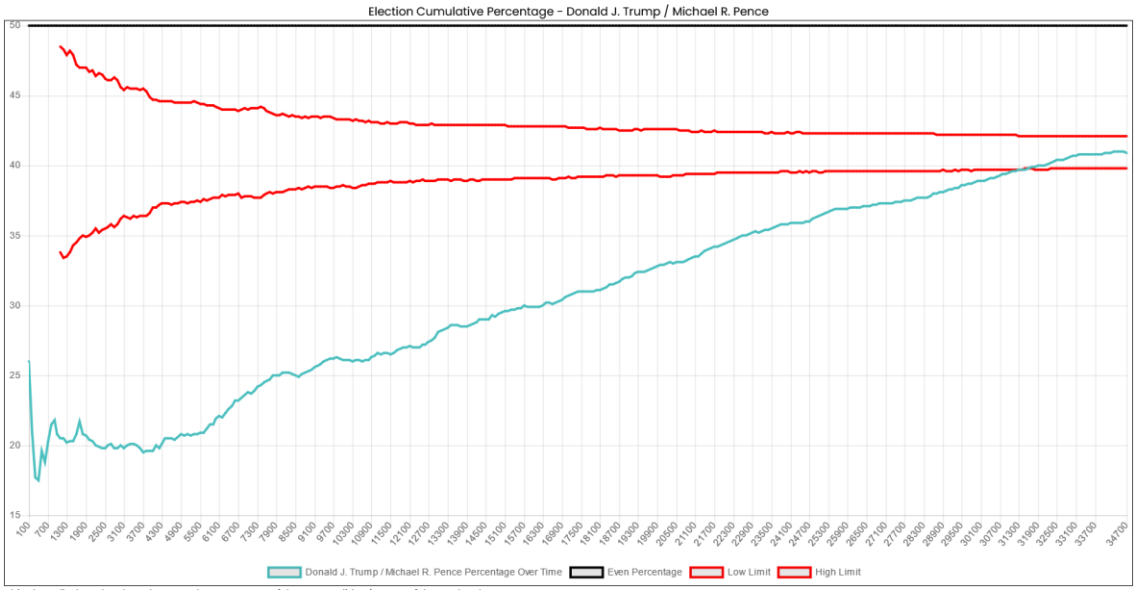


- **La Plata County**
  Vendor: Dominion Voting Systems

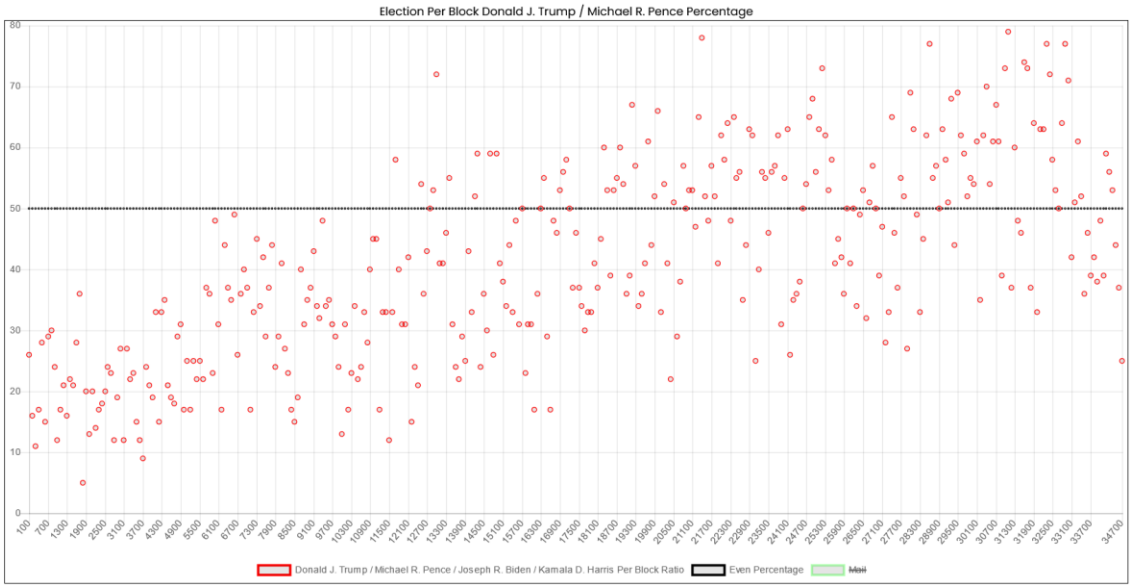
  The Colorado official results report 35,667 ballots cast for president, and the Cast Vote Record reports 35,667 Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 39.9% to Joseph Biden's 57.6%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.33.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

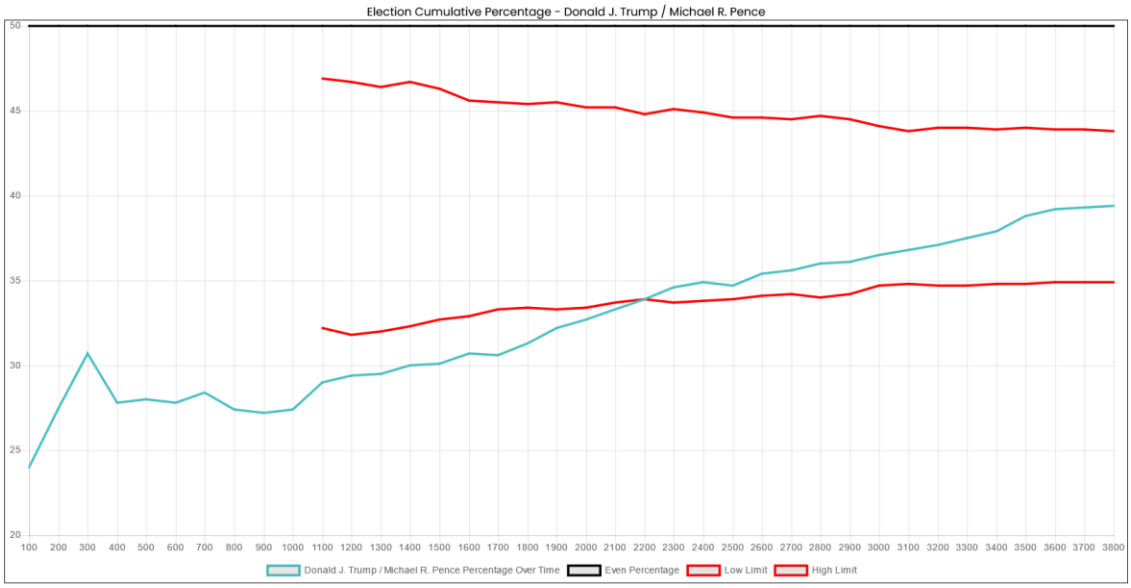


- **<u>Lake County</u>**
  Vendor: Dominion Voting Systems

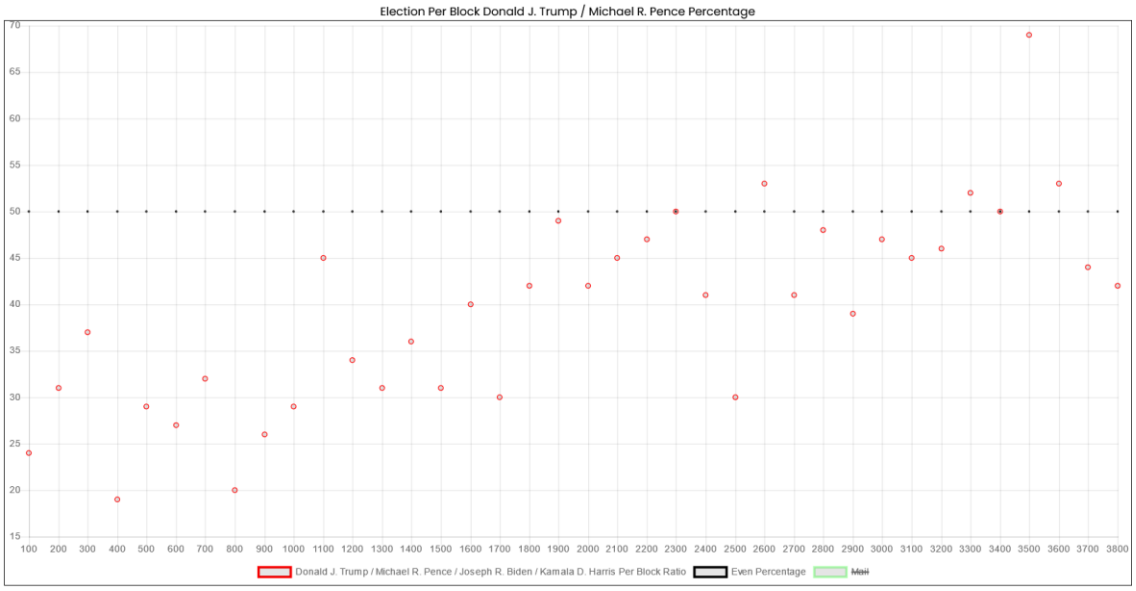
  The Colorado official results report 3,961 ballots cast for president, and the Cast Vote Record reports 3,961. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 37.8% to Joseph Biden's 58.1%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.22 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

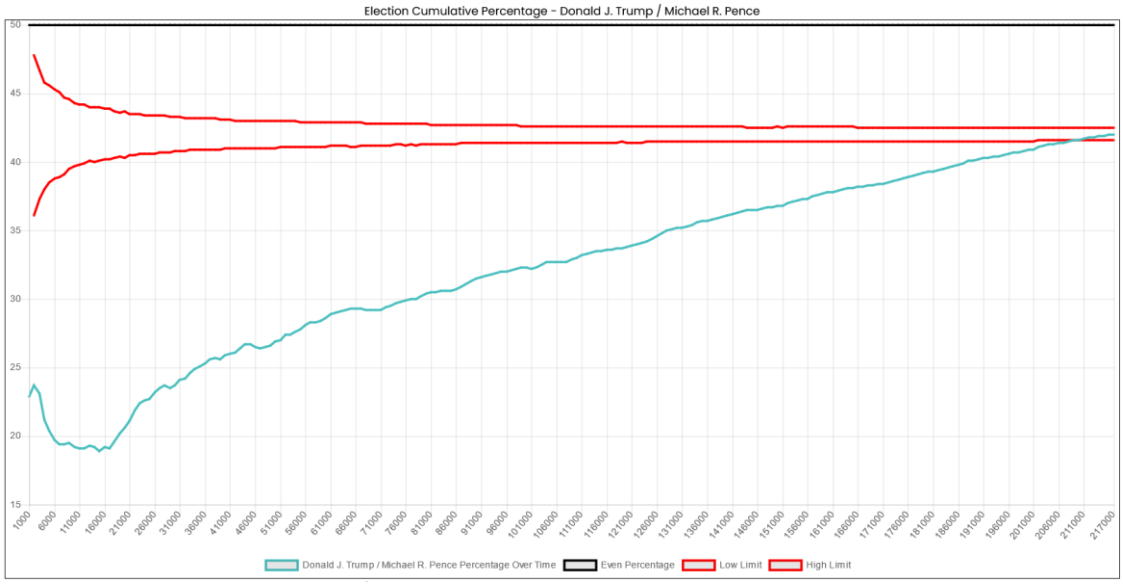


- **<u>Larimer County</u>**
  Vendor: Dominion Voting Systems

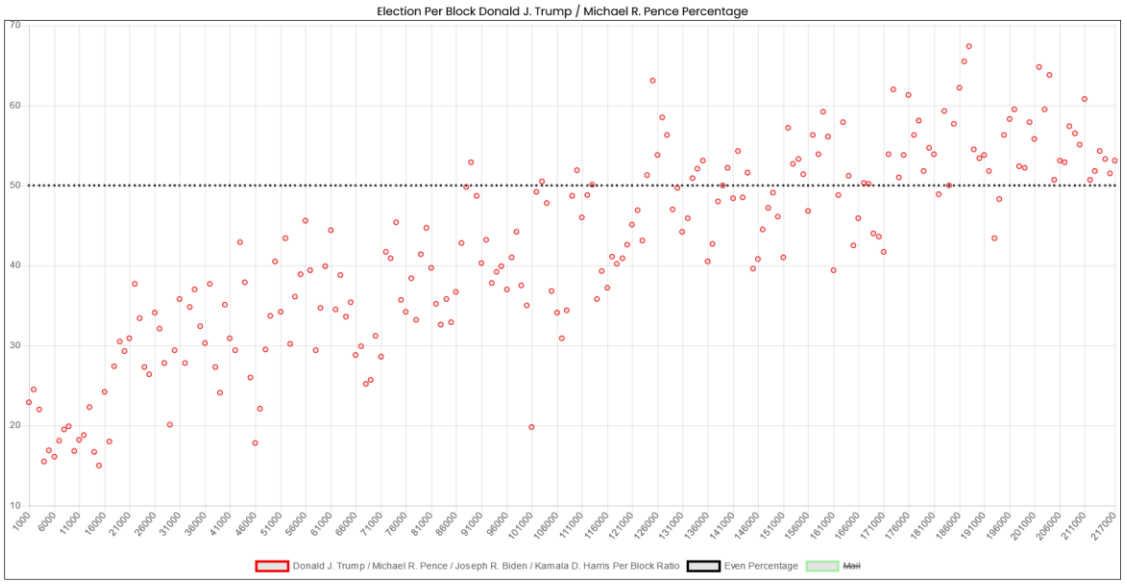
  The Colorado official results report 224,338 ballots cast for president, and the Cast Vote Record reports 224,285. Thus, **53** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 40.8% to Joseph Biden's 56.2%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.28 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.



- **Las Animas County**
  Vendor: Dominion Voting Systems

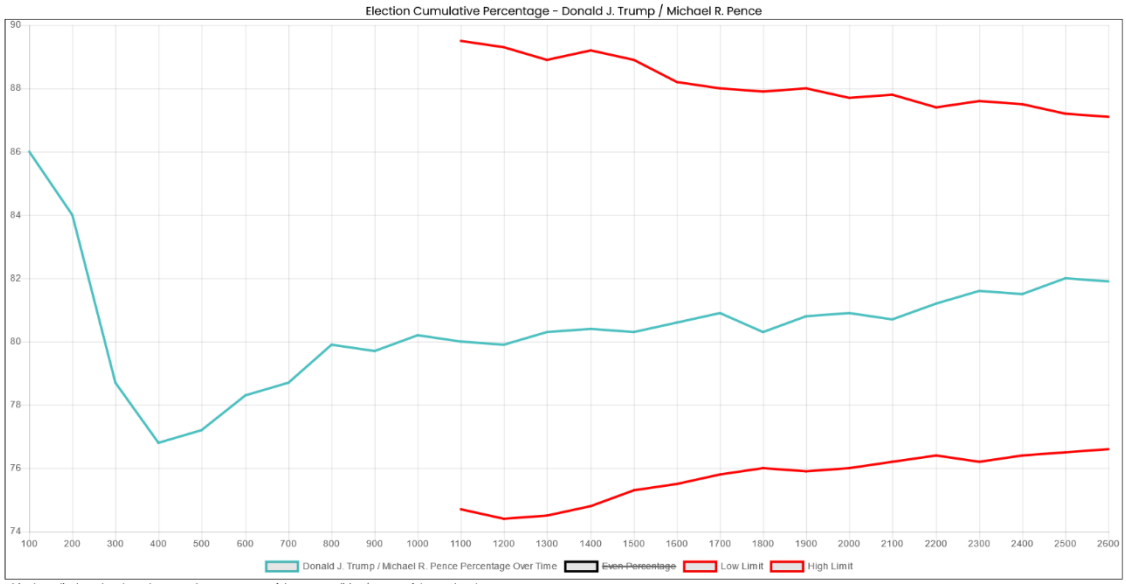
  The Colorado official results report 224,338 ballots cast for president, and the Cast Vote Record reports only 106. Thus, the file sent by the county in response to the public records request was seriously **incomplete**, and no further analysis can be performed.

- **Lincoln County**
  Vendor: Dominion Voting Systems

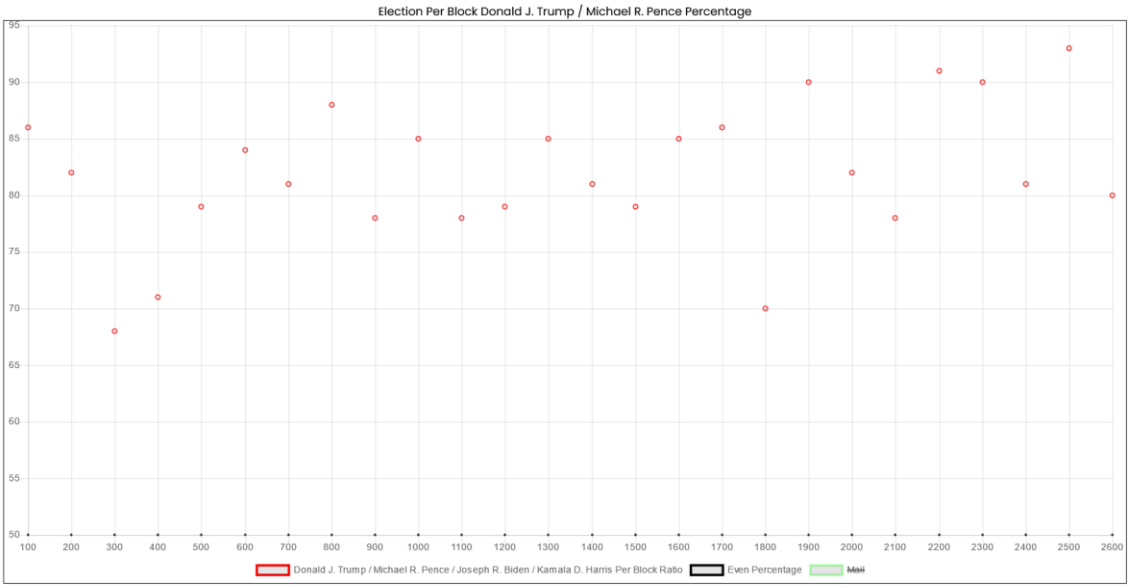
  The Colorado official results report 2,651 ballots cast for president, and the Cast Vote Record reports 2,651. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 80.5% to Joseph Biden's 17.7%.

  Plotting the mail-in votes over time shows a small gradual rise but the back half rise is less than 1.02, falling far outside the normally observed range of 1.1 to 1.3.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows the slightest of increase over the counting process.

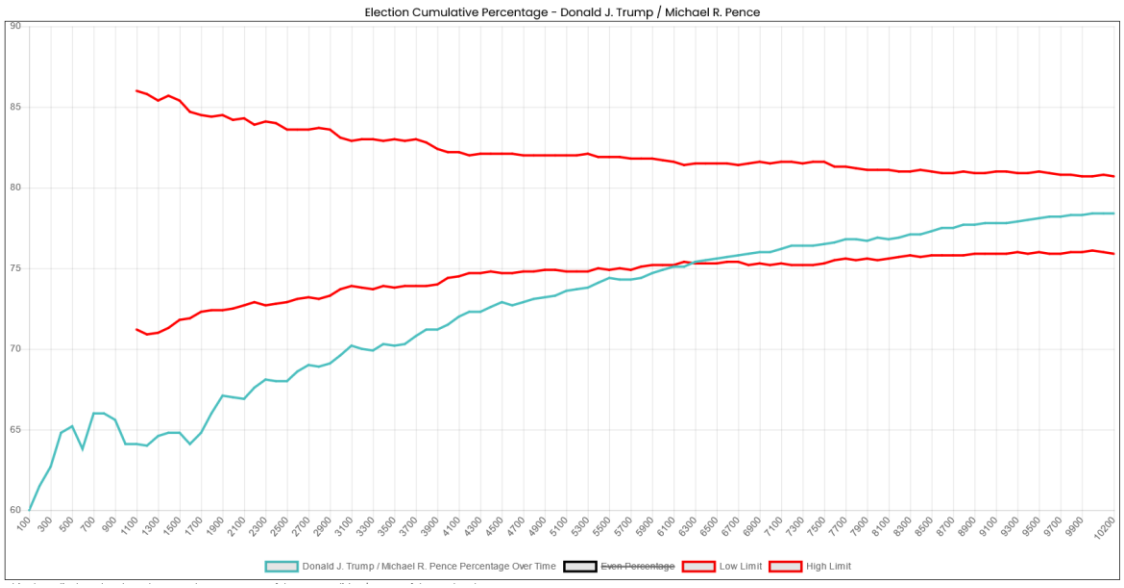


- **Logan County**
  Vendor: Dominion Voting Systems

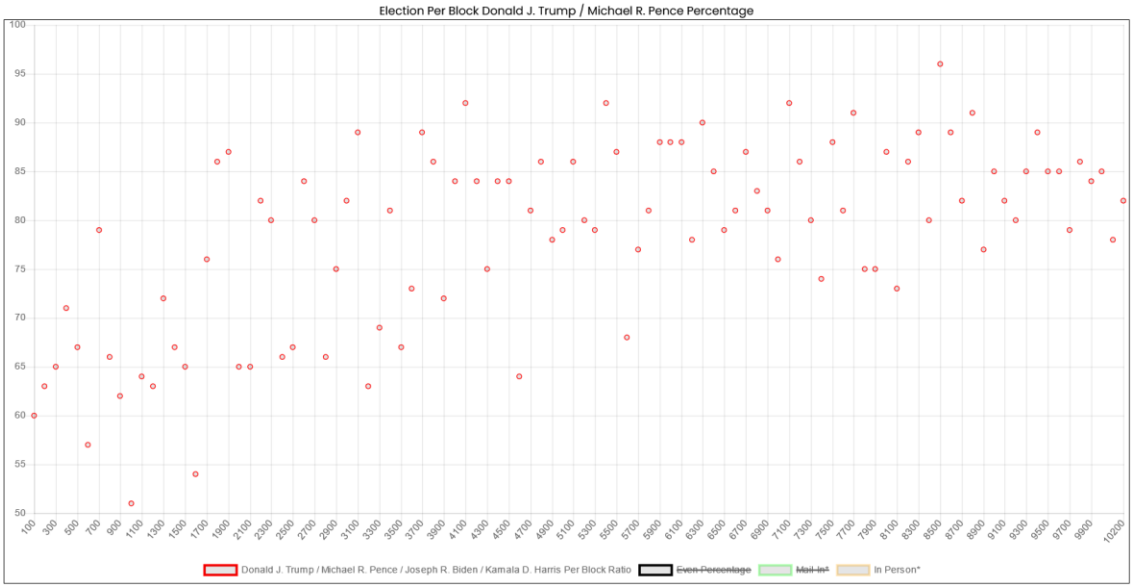
  The Colorado official results report 10,532 ballots cast for president, and the Cast Vote Record reports 10,511. Thus, **21** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 76.8% to Joseph Biden's 21.1%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.07 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds, but the rate of rise flattens out in the last half.

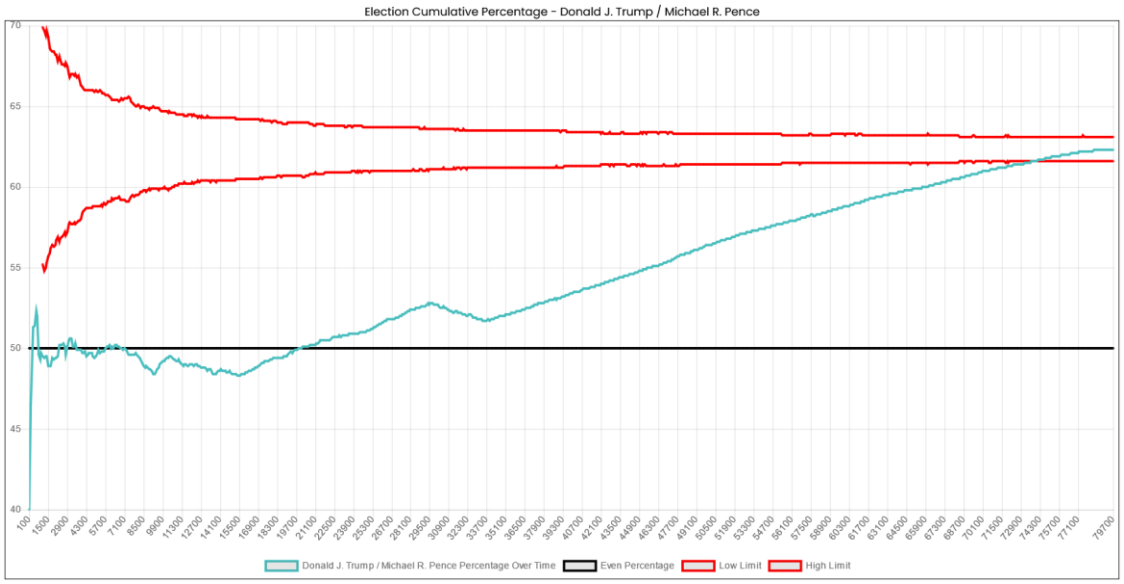


- **Mesa County**
  Vendor: Dominion Voting Systems

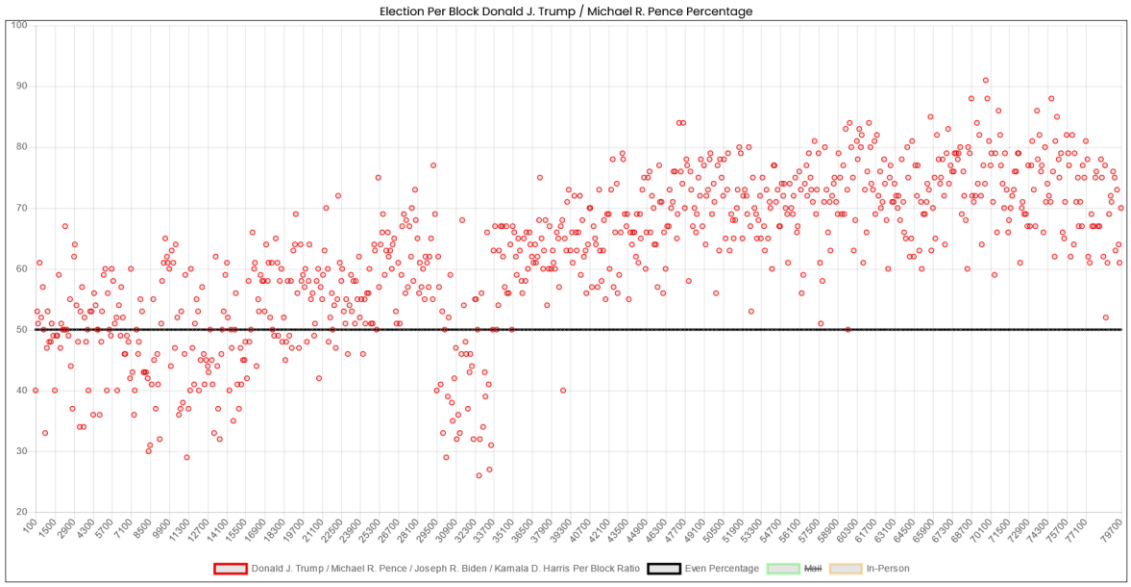
  The Colorado official results report 90.623 ballots cast for president, and the Cast Vote Record reports 90,614. Thus, **9** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 62.8% to Joseph Biden's 34.8%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.17 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the odd blocks of votes starting at vote 29,500 which seem out of place. It is interesting that Mesa County personnel reported to me – and data from the Mesa County Election Server confirms - that hardware problems prevented the use of one of the county's 4 tabulators on the day those ballots were counted. This could well have influenced the algorithm's effectiveness on that day.



- **Mineral County**
  Vendor: Dominion Voting Systems

  The Colorado official results report 756 ballots cast for president, and the Cast Vote Record reports 756. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 56.5% to Joseph Biden's 41.9%.

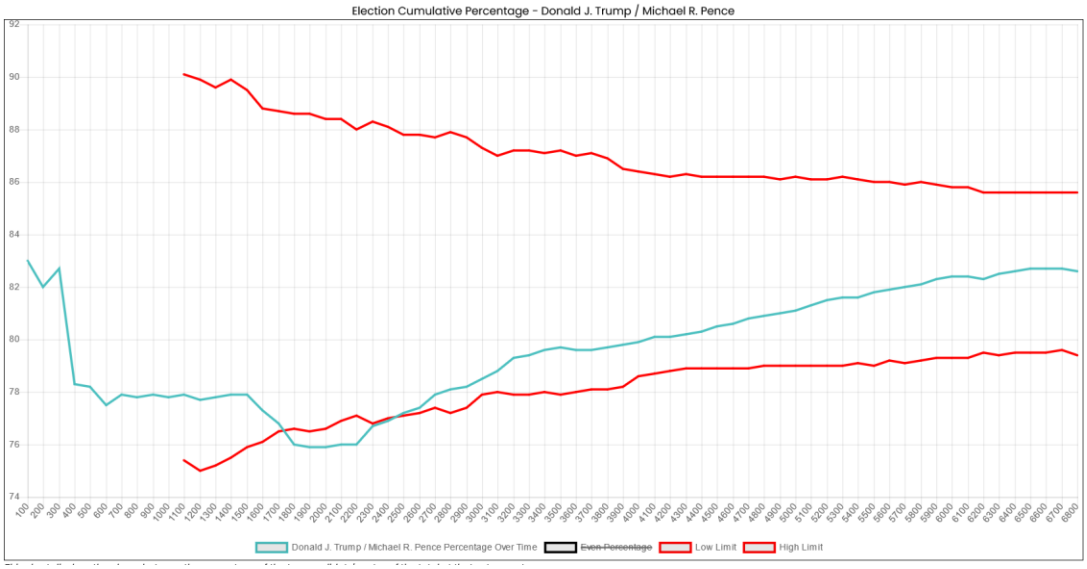
  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **Moffat County**
  Vendor: Dominion Voting Systems

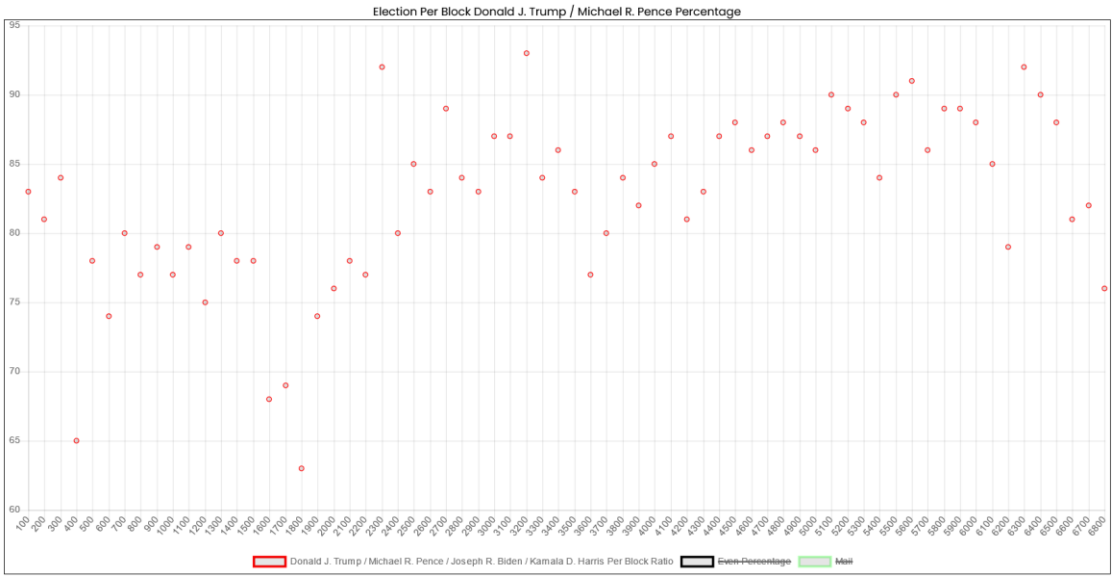
  The Colorado official results report 7,026 ballots cast for president, and the Cast Vote Record reports 7,026. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 80.7% to Joseph Biden's 17.1%.

  Plotting the mail-in votes over time shows the gradual rise the Mesa Pattern, but the back half rise is only 1.04 is outside of the normal 1.1 – 1.3 range. Note that the percentage plot does fall below the red cone early in the counting.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows the gradual but small rise as the counting proceeds.

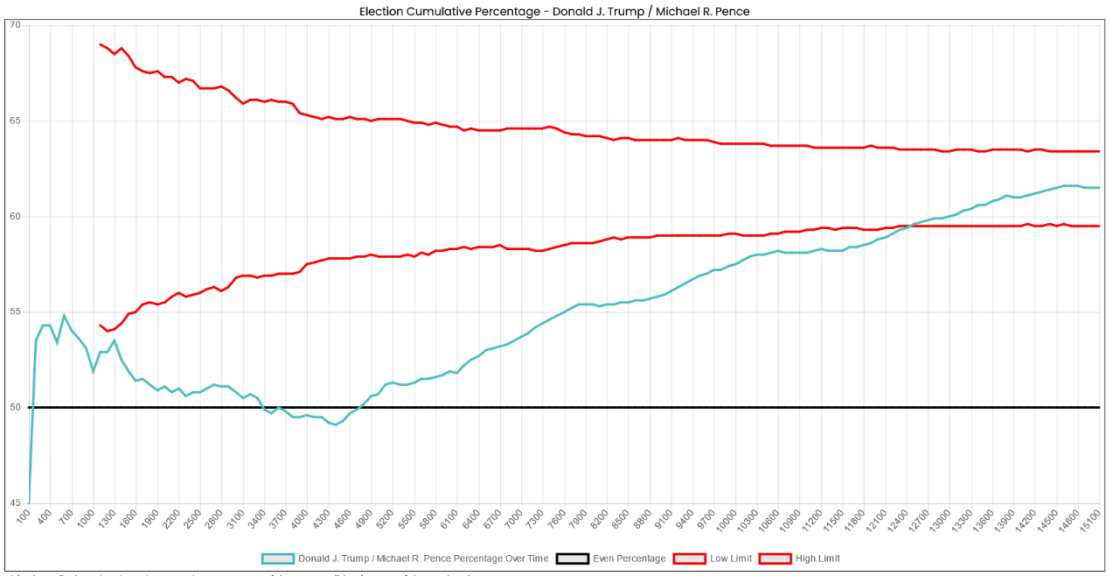


- **<u>Montezuma County</u>**
  Vendor: Dominion Voting Systems

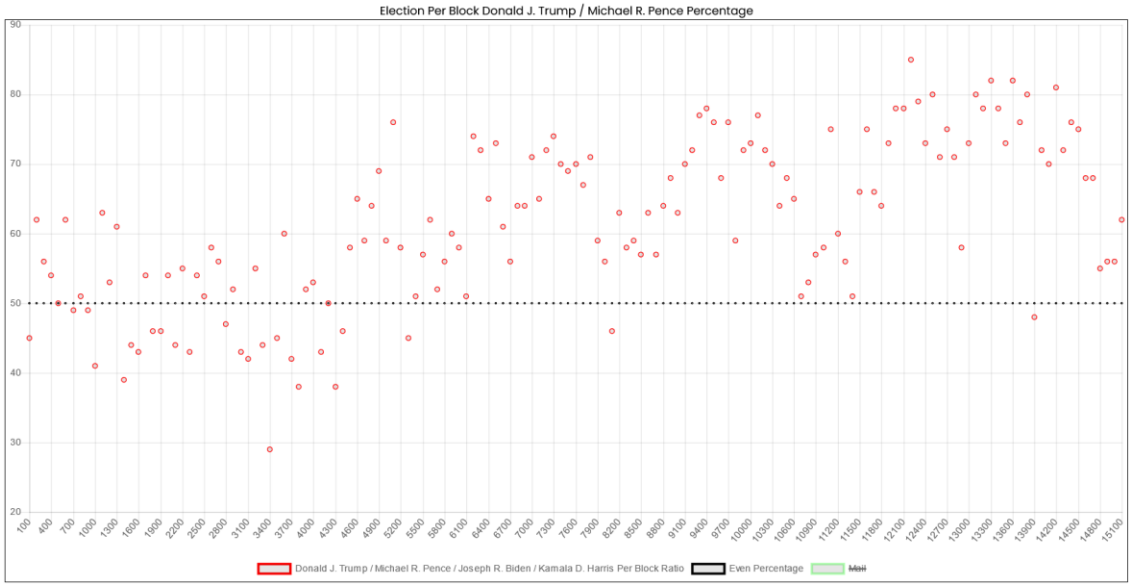
  The Colorado official results report 15,500 ballots cast for president, and the Cast Vote Record reports 15,500. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 60.0% to Joseph Biden's 37.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.12 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

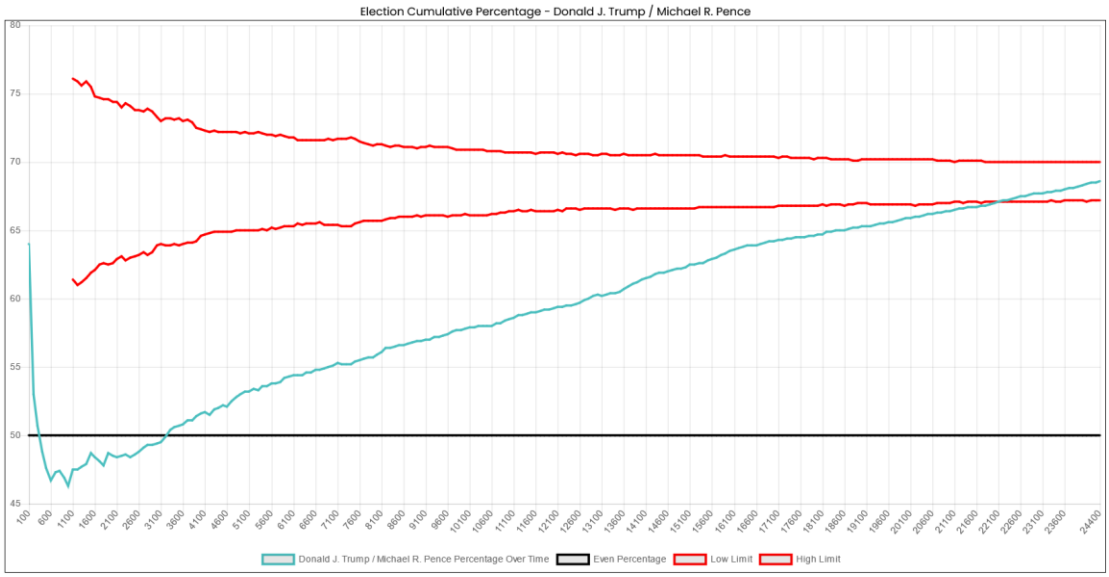


- **<u>Montrose County</u>**
  Vendor: Dominion Voting Systems

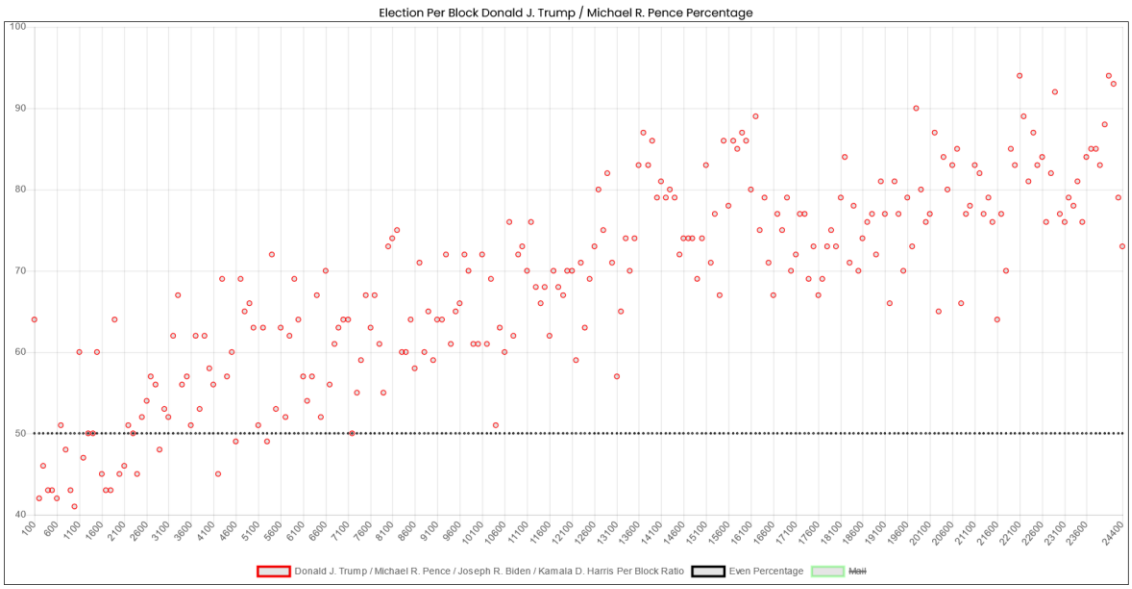
  The Colorado official results report 24,922 ballots cast for president, and the Cast Vote Record reports 24,922. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 67.3% to Joseph Biden's 30.8%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.15 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

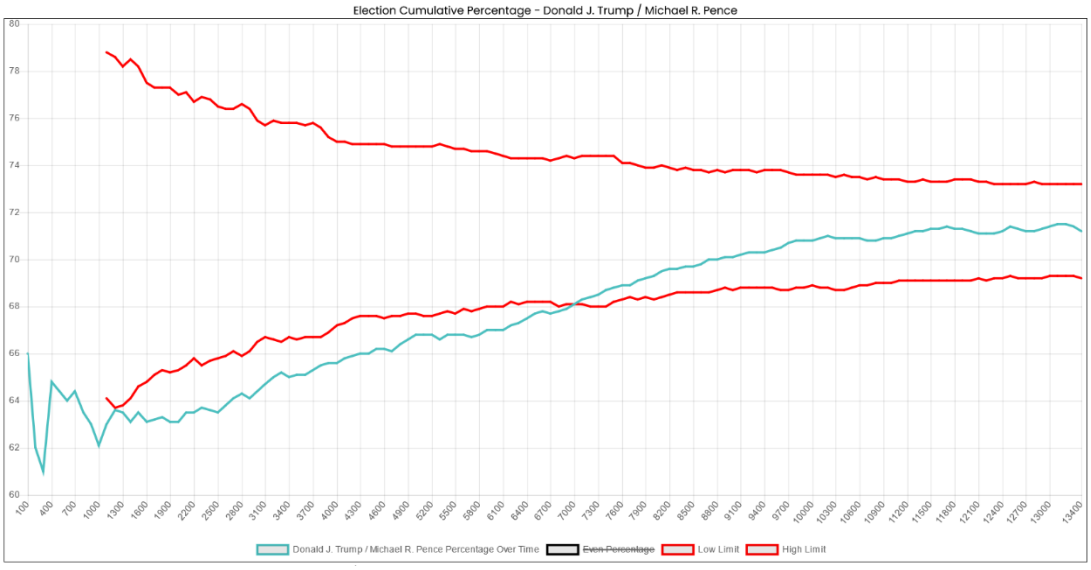


- **Morgan County**
  Vendor: Dominion Voting Systems

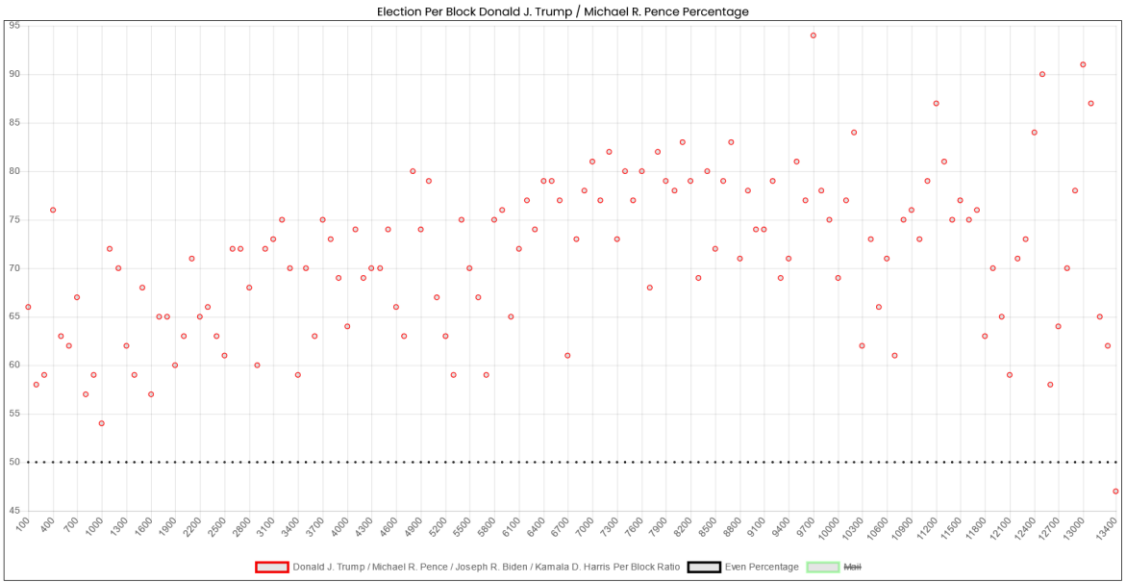
  The Colorado official results report 13,744 ballots cast for president, and the Cast Vote Record reports 13,739. Thus, **5** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 69.8% to Joseph Biden's 28.2%.

  Plotting the mail-in votes over time shows a similar pattern to the Mesa Pattern, but the back half rise is only 1.05 in favor of President Trump. The percentage plot does fall below the red cone for a significant period of the counting.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows a gradual rise as the counting proceeds, but has a dip at the end which causes the lower back half ratio. The last 100 vote block is the only block which did not favor President Trump.

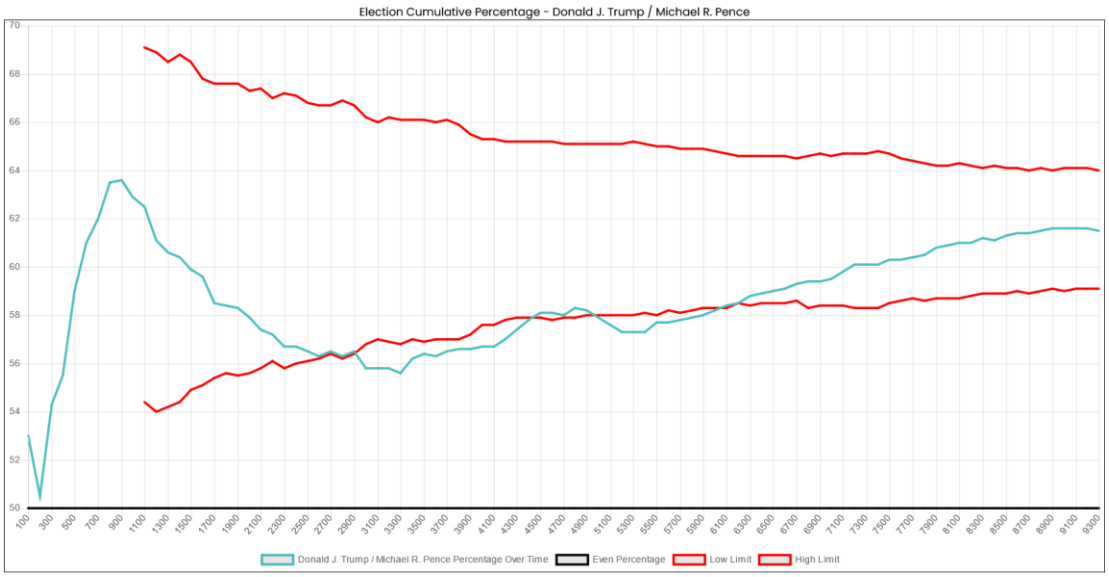


- **<u>Otero County</u>**
  Vendor: Dominion Voting Systems

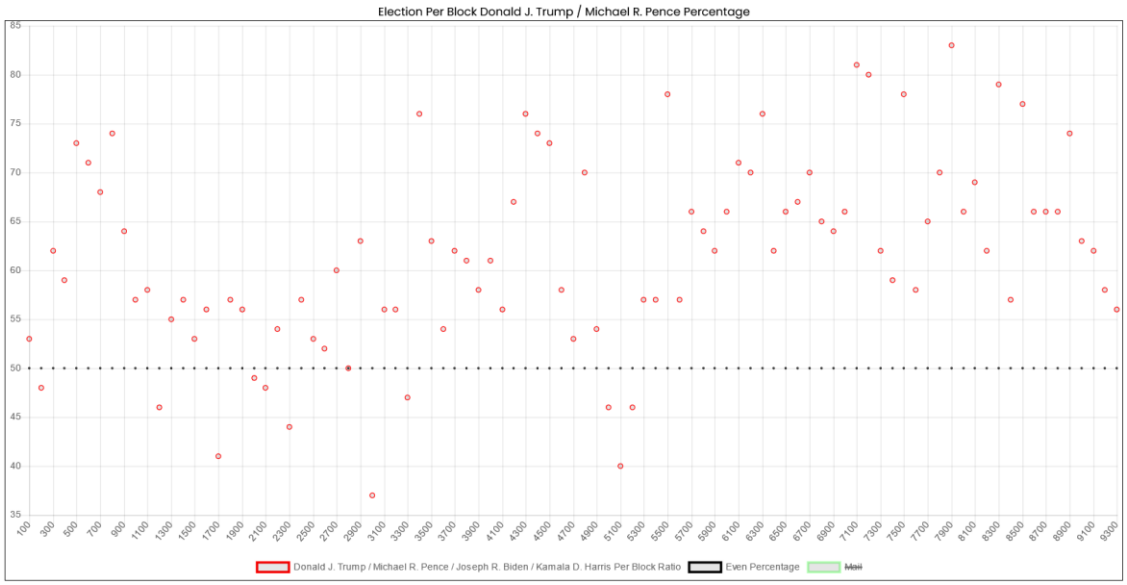
  The Colorado official results report 9,576 ballots cast for president, and the Cast Vote Record reports 9,576. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 60.1% to Joseph Biden's 37.6%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.06 in favor of President Trump. Note the unusual "shark fin" favoring President Trump near the beginning, which is unusual.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows the rise as the counting proceeds.

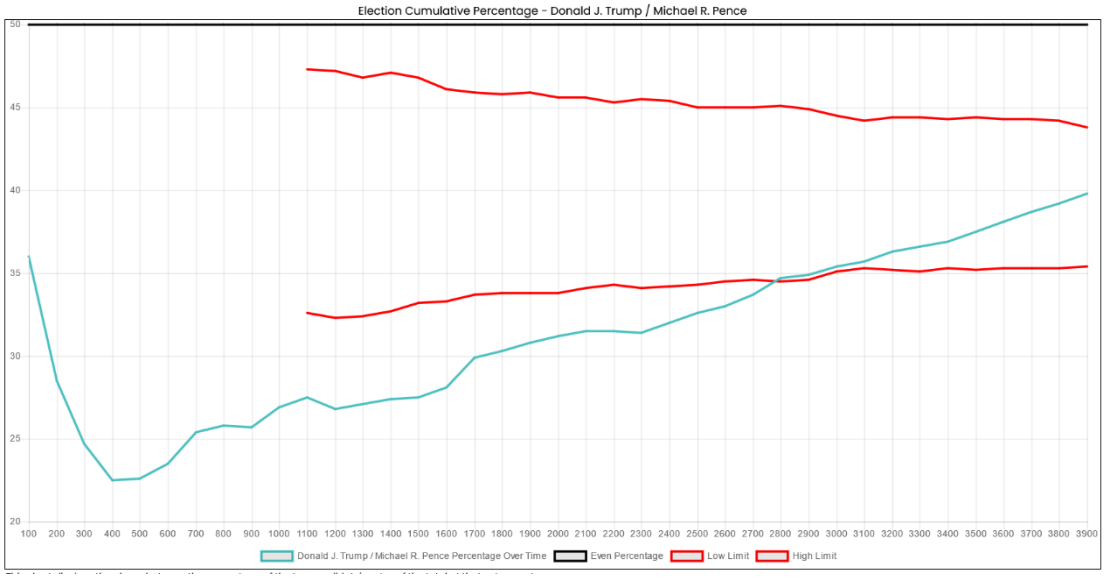


- **<u>Ouray County</u>**
  Vendor: Dominion Voting Systems

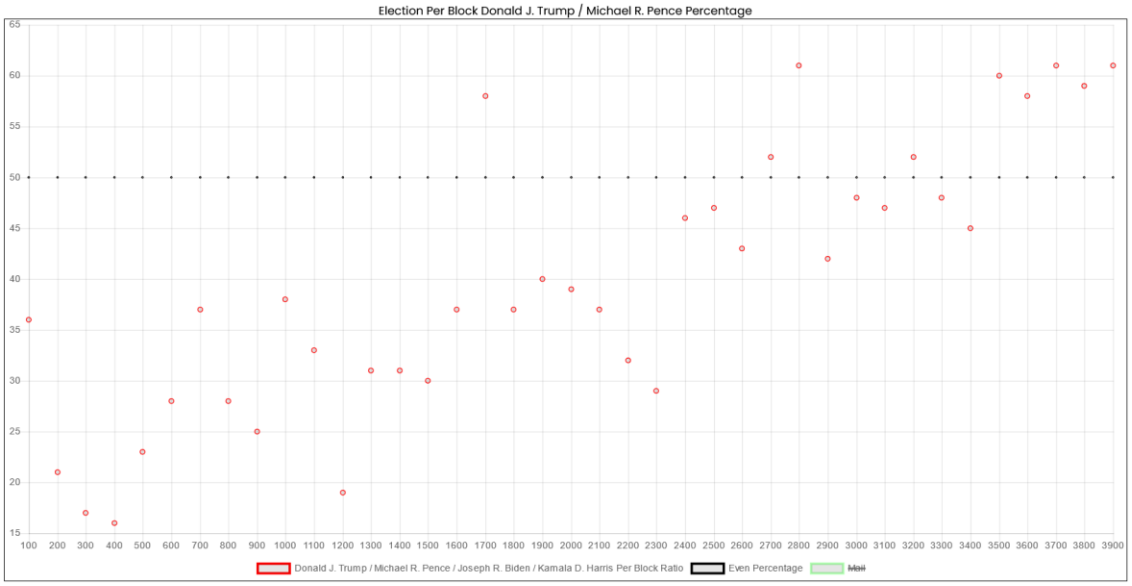
  The Colorado official results report 4,020 ballots cast for president, and the Cast Vote Record reports 4,020. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 39.2% to Joseph Biden's 58.8%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.29 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds.

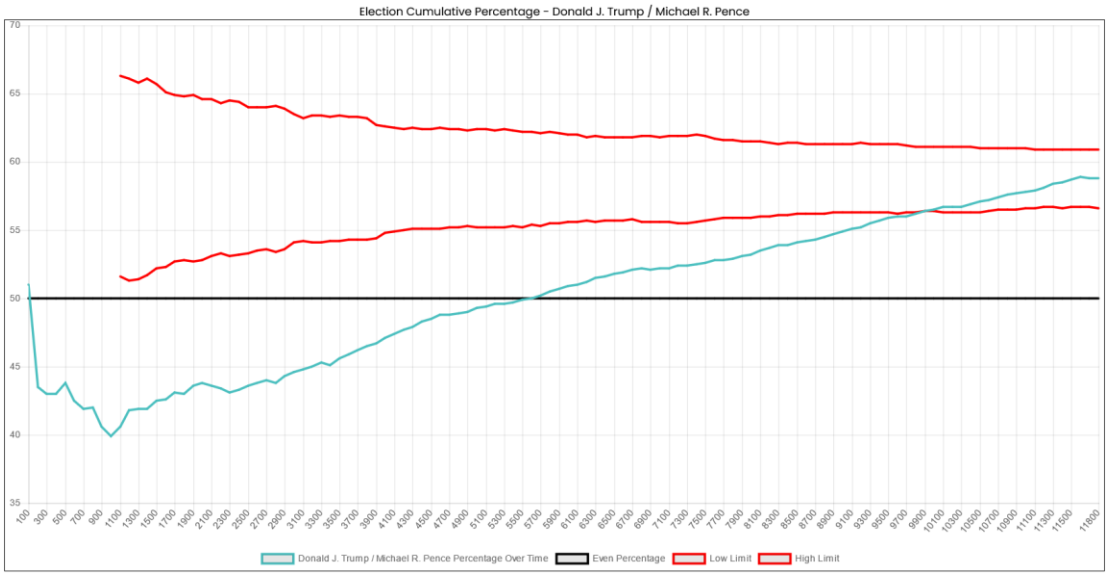


- **Park County**
  Vendor: Dominion Voting Systems

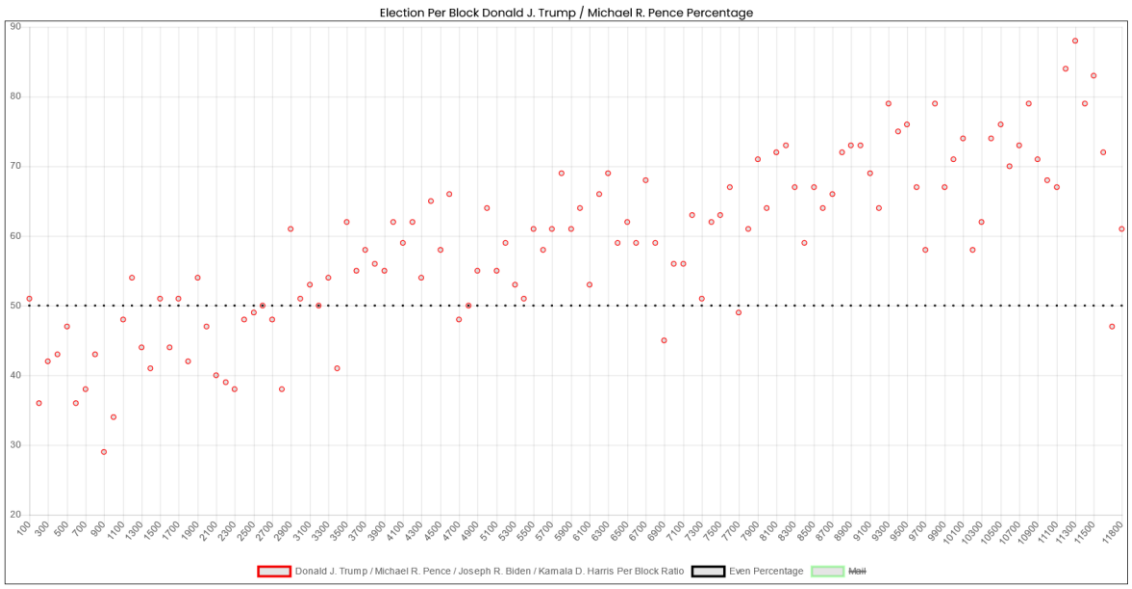
  The Colorado official results report 12,291 ballots cast for president, and the Cast Vote Record reports 12,290. Thus, **1** ballot was redacted.

  According to the Cast Vote Record, President Trump won this county with 56.9% to Joseph Biden's 39.9%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.16 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds. Note the seemingly out of place next-to-the-last block.



- **Phillips County**
  Vendor: Dominion Voting Systems

  The Colorado official results report 2,485 ballots cast for president, and the Cast Vote Record reports 2,485. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 78.8% to Joseph Biden's 19.6%.

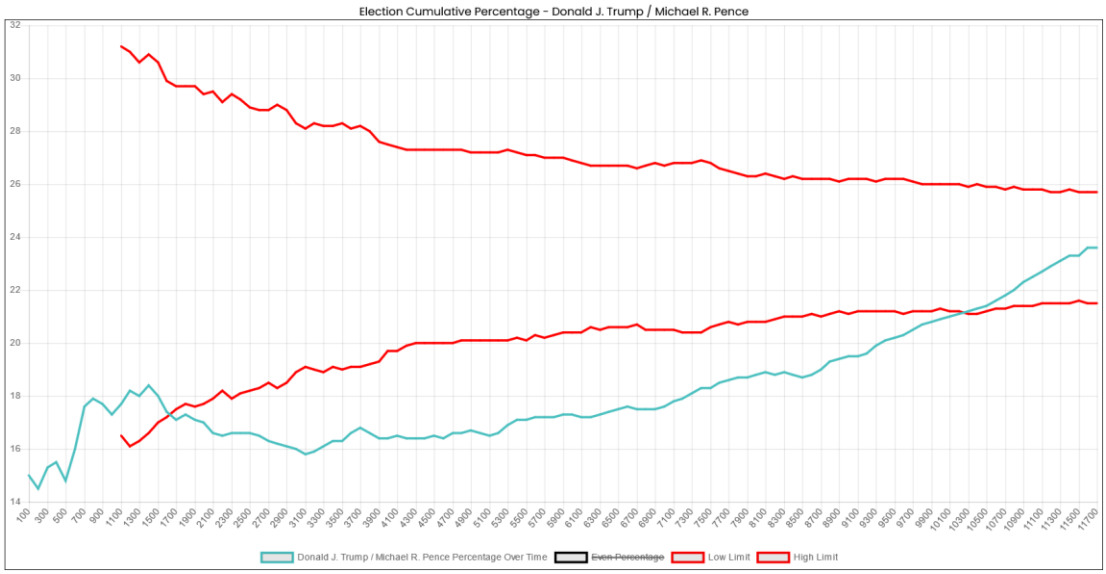
  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **Pitkin County**
  Vendor: Dominion Voting Systems

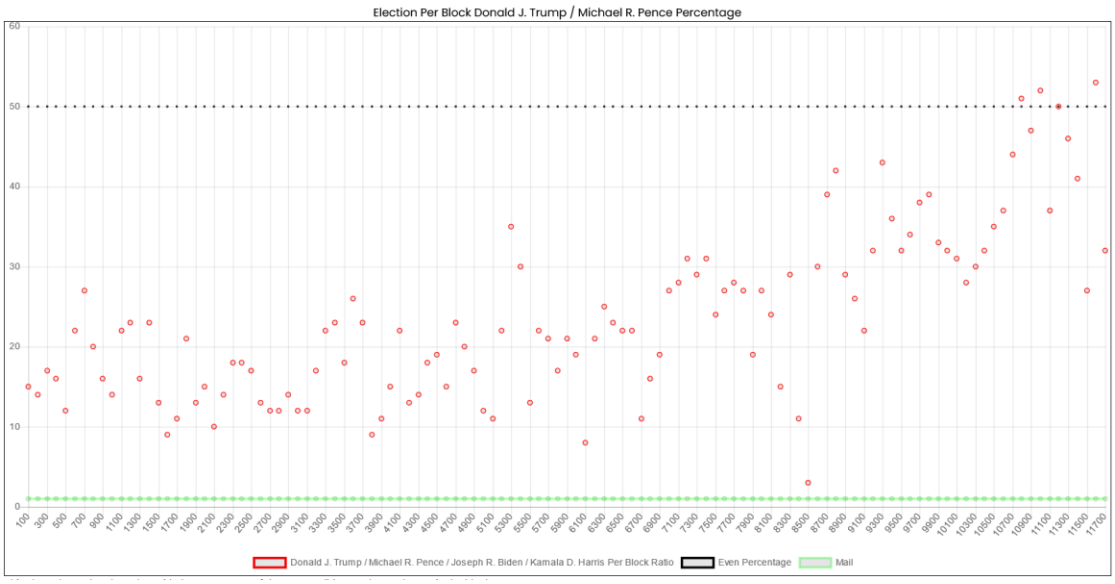
  The Colorado official results report 11.957 ballots cast for president, and the Cast Vote Record reports 11,934. Thus, **23** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 23.3% to Joseph Biden's 75.2%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.37 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds.

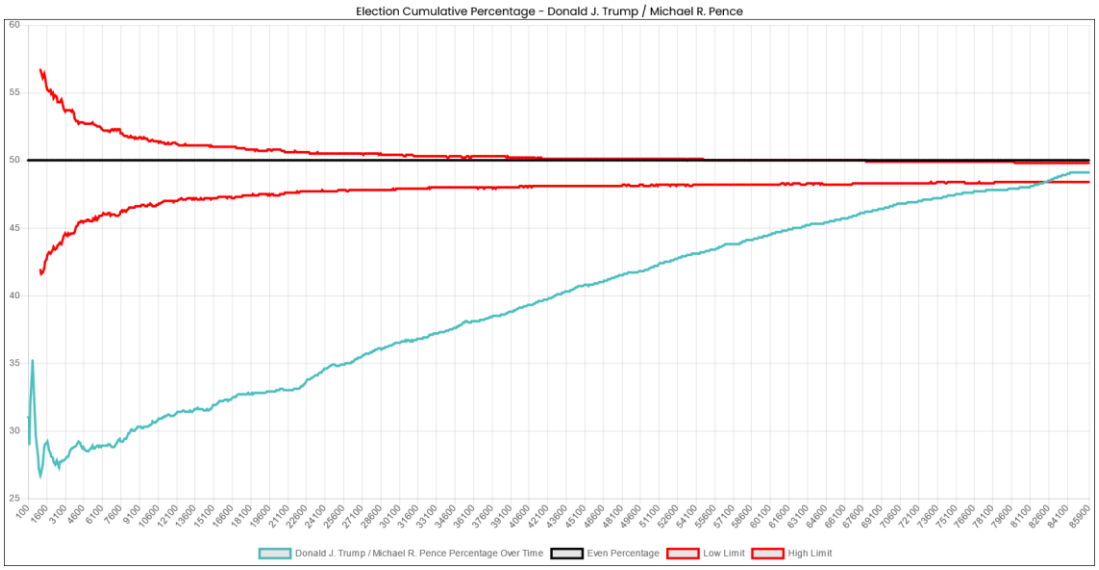


- **Pueblo County**
  Vendor: Dominion Voting Systems

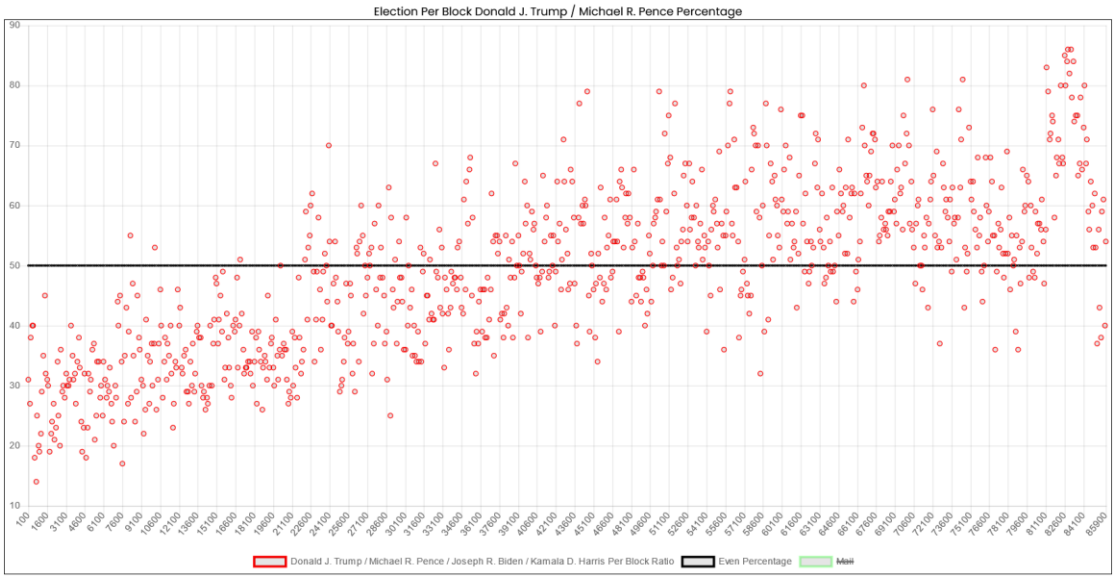
  The Colorado official results report 88,301 ballots cast for president, and the Cast Vote Record reports 88,255. Thus, **46** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 47.8% to Joseph Biden's 49.6%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.23 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds.

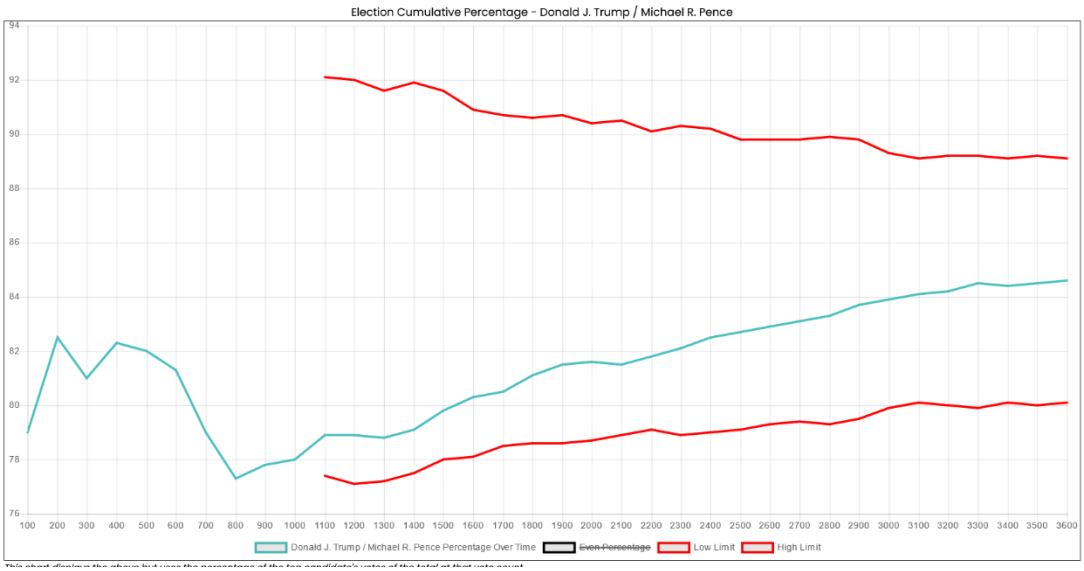


- **Rio Blanco County**
  Vendor: Dominion Voting Systems

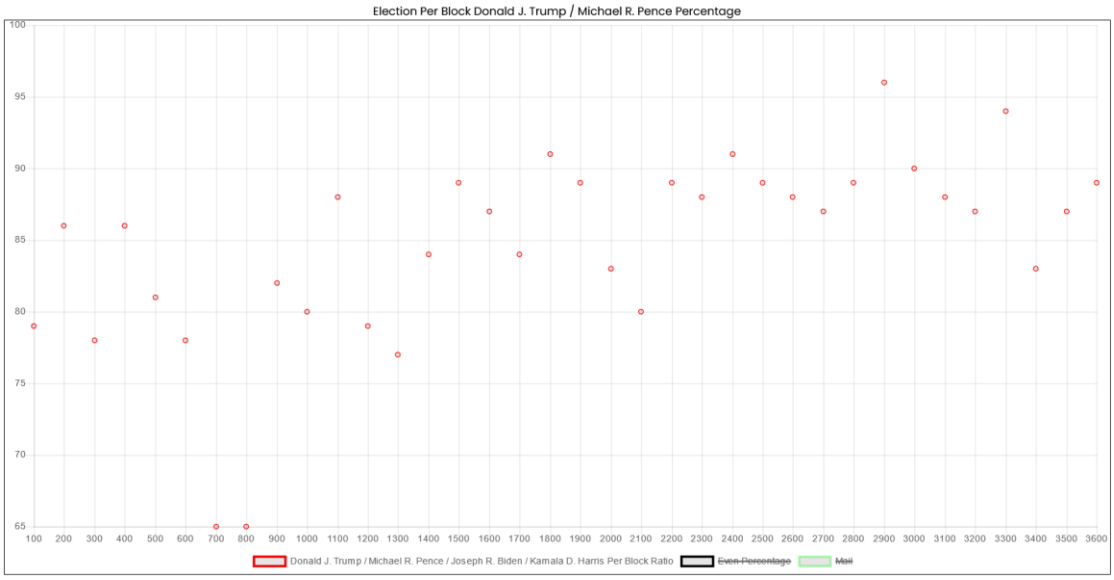
  The Colorado official results report 3,691 ballots cast for president, and the Cast Vote Record reports 3,687. Thus, 4 ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 83.0% to Joseph Biden's 15.1%.

  Plotting the mail-in votes over time shows the gradual rise the Mesa Pattern, but the back half rise of 1.04 is outside of the normal 1.1 – 1.3 range, and the plot fits within the red cone.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows the gradual but small rise as the counting proceeds.

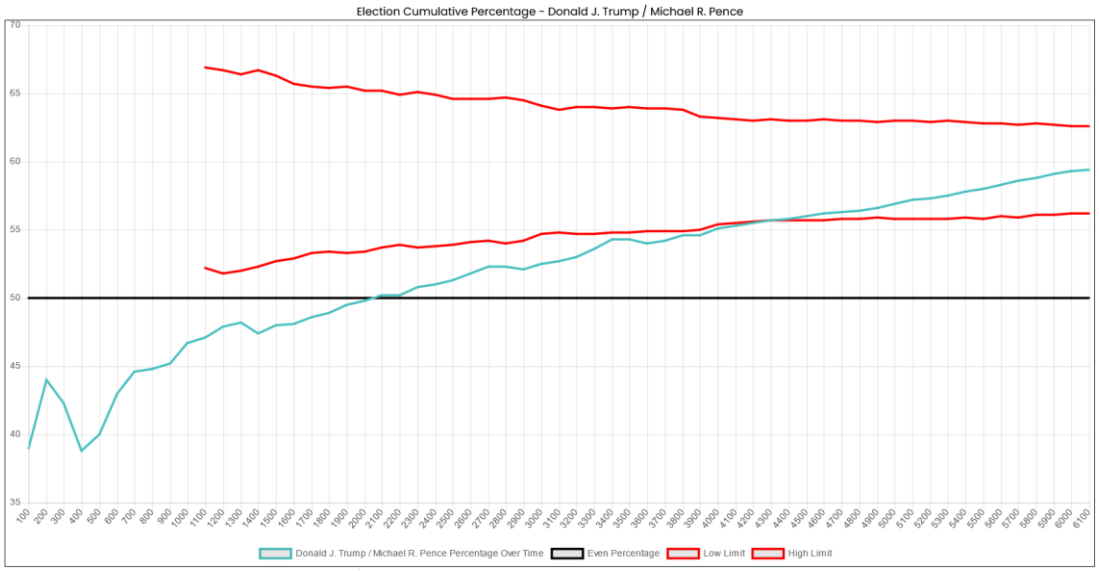


- **<u>Rio Grande County</u>**
  Vendor: Dominion Voting Systems

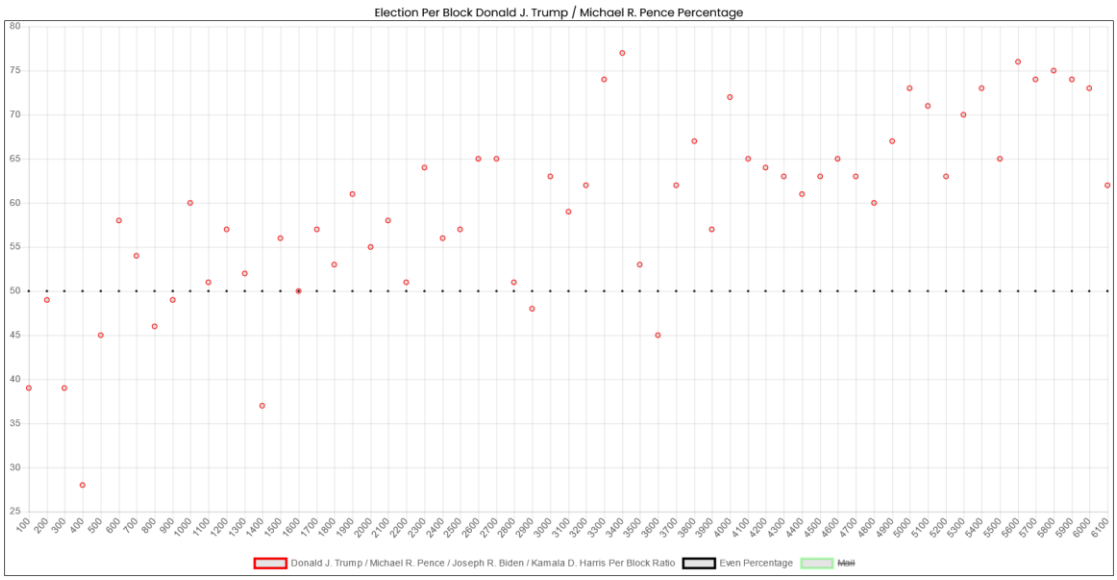
  The Colorado official results report 6,305 ballots cast for president, and the Cast Vote Record reports 6,305. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 58.0% to Joseph Biden's 39.6%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.13 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds.

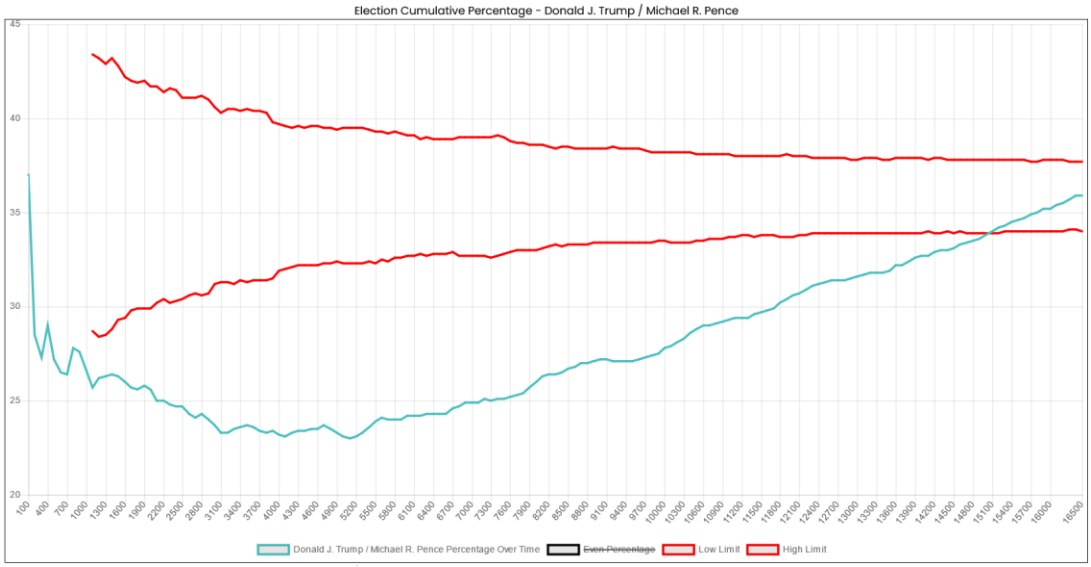


- **Routt County**
  Vendor: Dominion Voting Systems

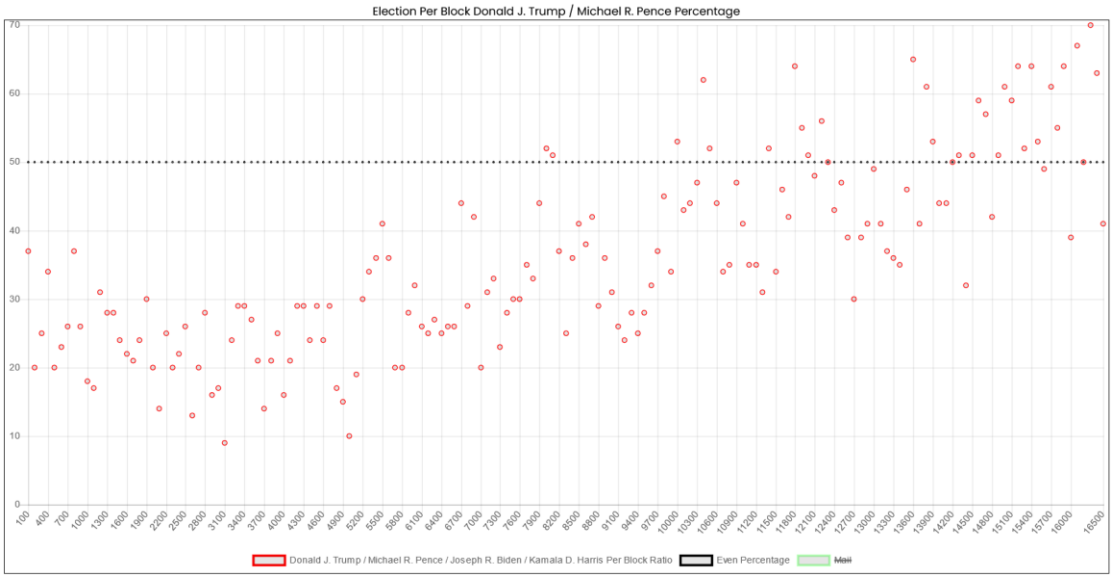
  The Colorado official results report 18,876 ballots cast for president, and the Cast Vote Record reports 18,876. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 35.1% to Joseph Biden's 62.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.36 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds.

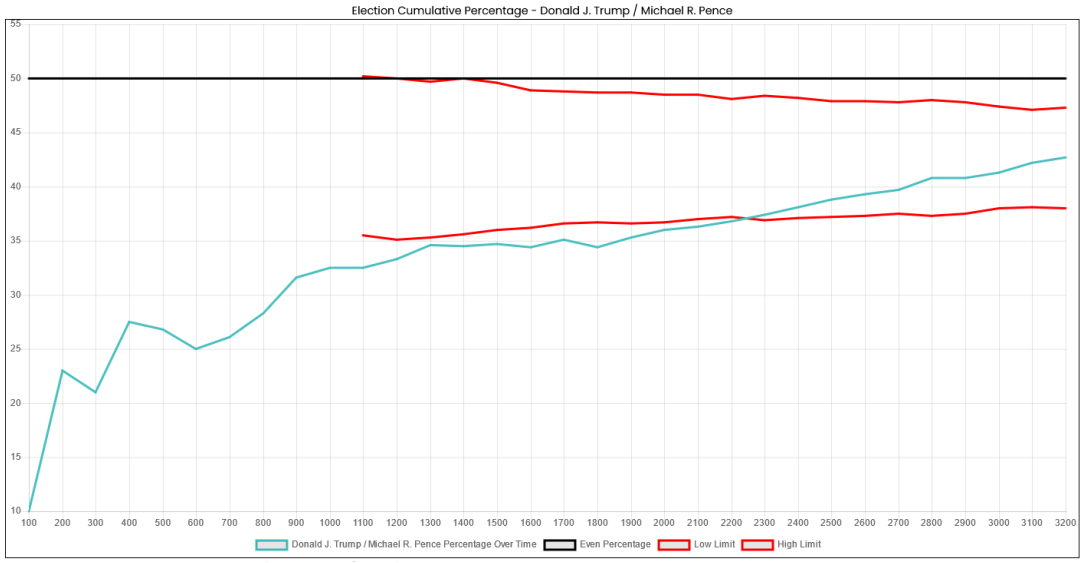


- **<u>Saguache County</u>**
  Vendor: Dominion Voting Systems

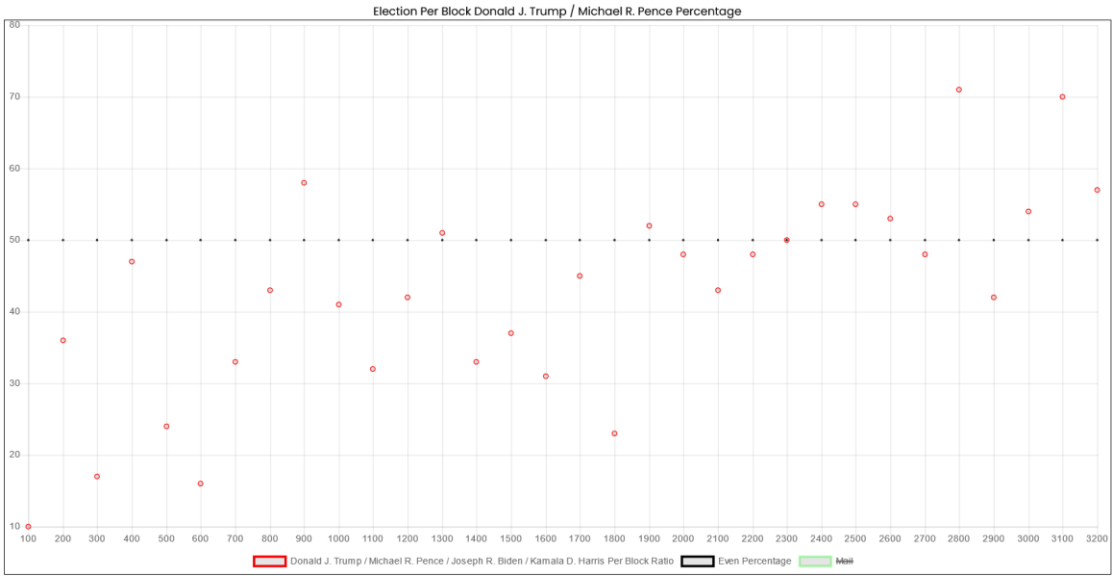
  The Colorado official results report 3,389 ballots cast for president, and the Cast Vote Record reports 3,389. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 47.1% to Joseph Biden's 55.6%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.24 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds.

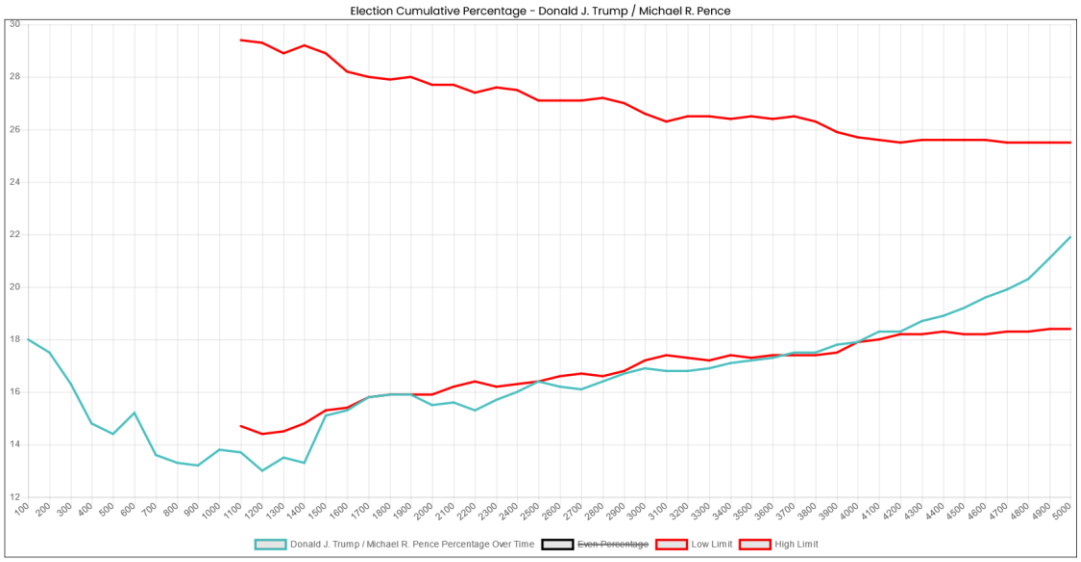


- **San Miguel County**
  Vendor: Dominion Voting Systems

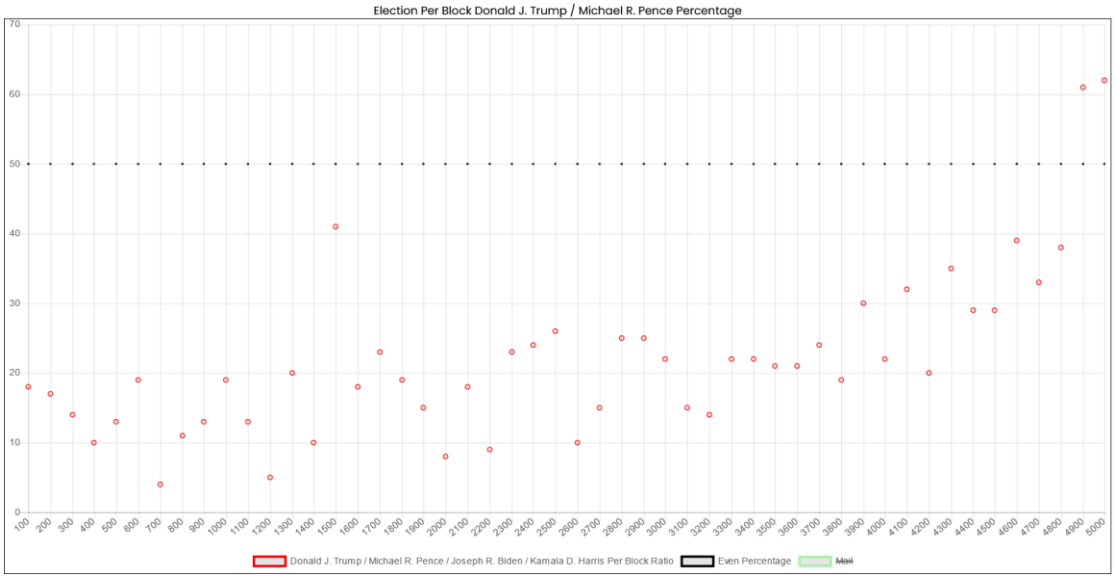
  The Colorado official results report 5,147 ballots cast for president, and the Cast Vote Record reports 5,147. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 22.1% to Joseph Biden's 76.2%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.34 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds. The last two blocks (200 votes) were much higher than the pattern would suggest.



- **Sedgwick County**
  Vendor: Dominion Voting Systems

  The Colorado official results report 1,446 ballots cast for president, and the Cast Vote Record reports 1,446. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 77.5% to Joseph Biden's 20.8%.

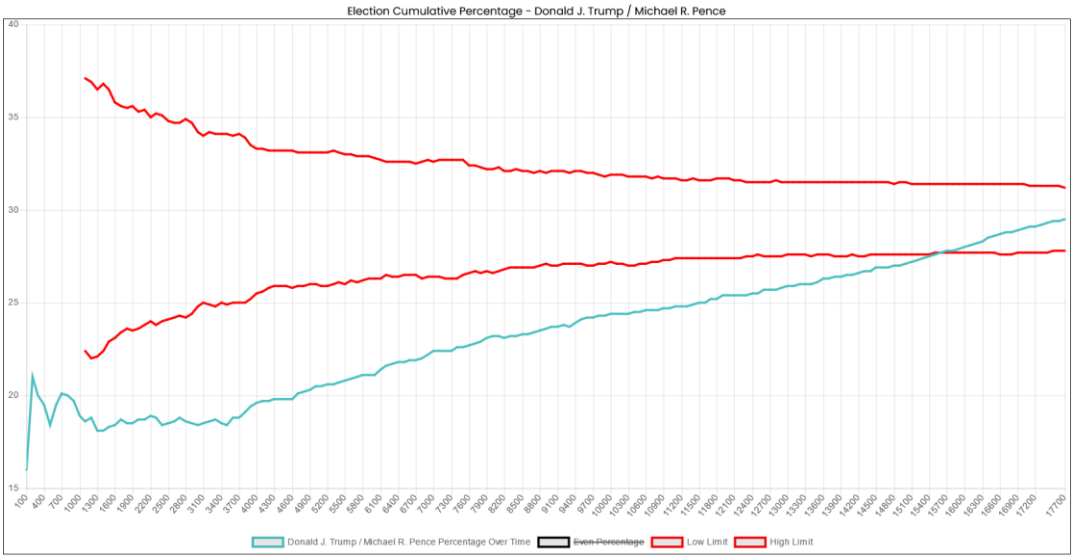
  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **<u>Summit County</u>**
  Vendor: Dominion Voting Systems

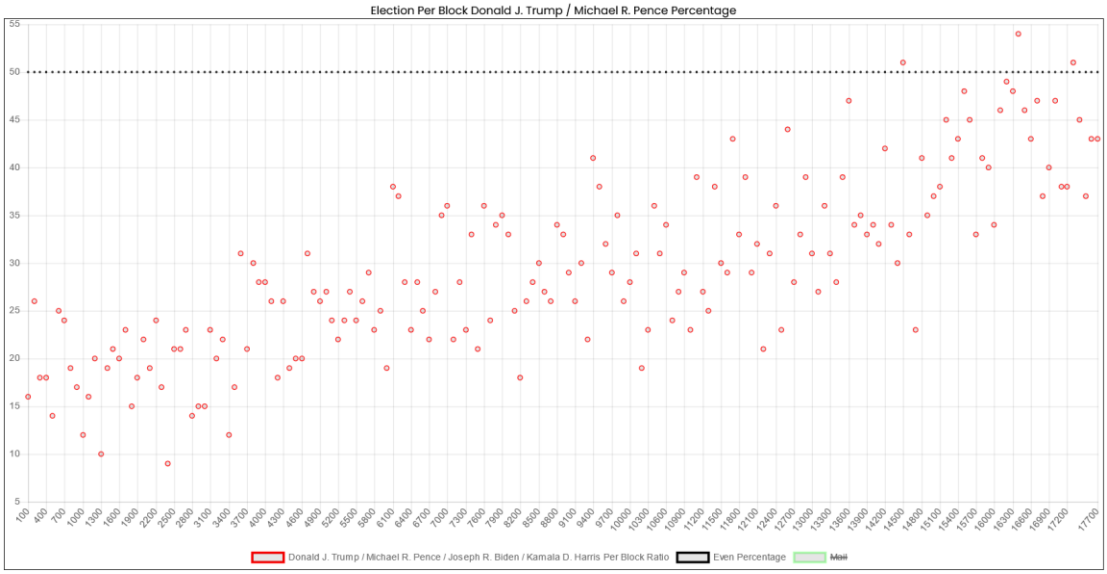
  The Colorado official results report 18,479 ballots cast for president, and the Cast Vote Record reports 18,311. Thus, 168 ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 28.8% to Joseph Biden's 68.4%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.26 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds.

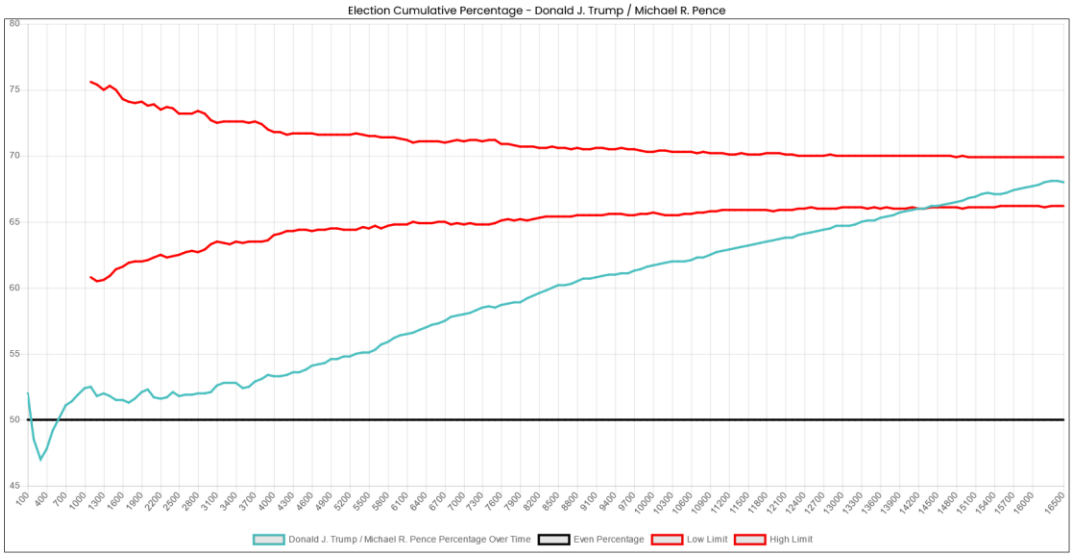


- **<u>Teller County</u>**
  Vendor: Dominion Voting Systems

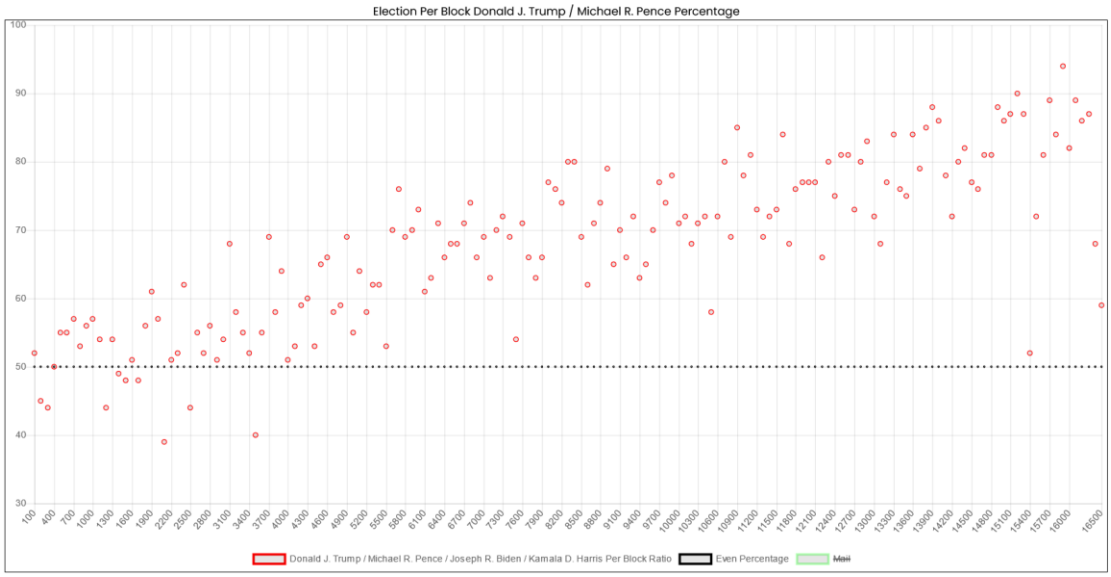
  The Colorado official results report 16,939 ballots cast for president, and the Cast Vote Record reports 16,939. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 66.4% to Joseph Biden's 31.2%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.14 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds.

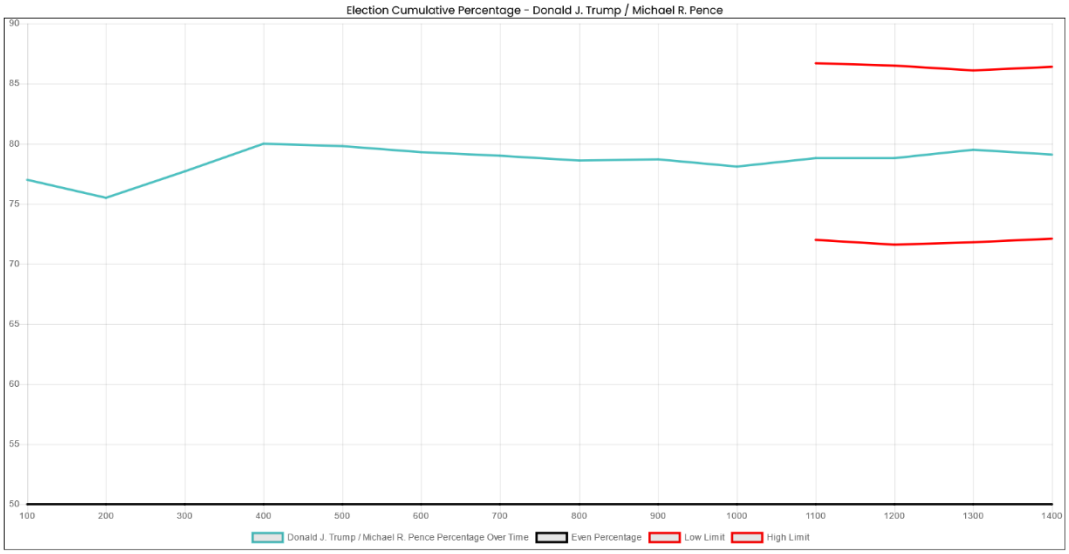


- **<u>Washington County</u>**
  Vendor: Dominion Voting Systems

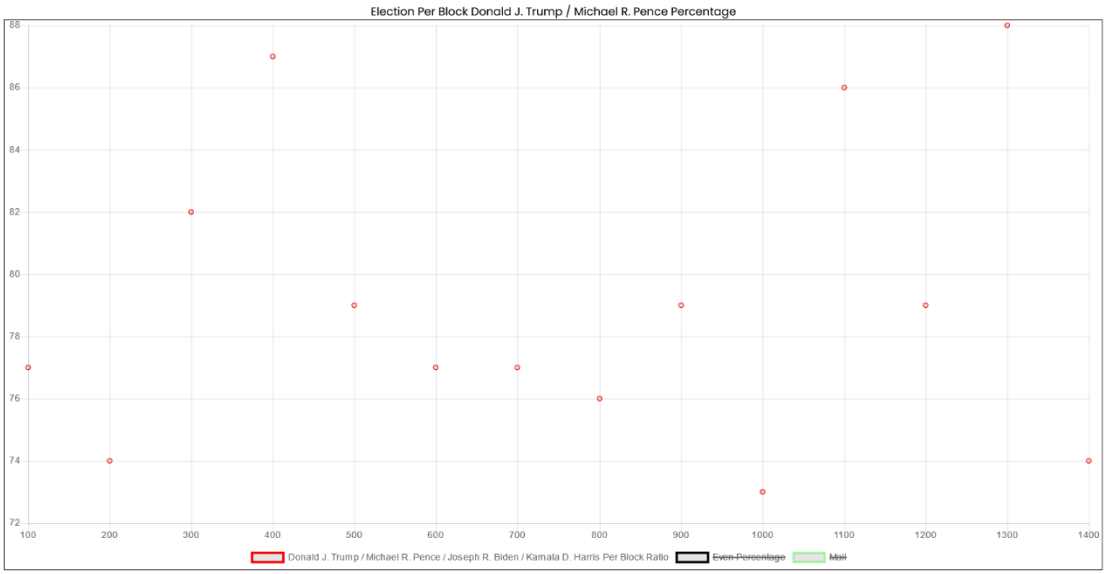
  The Colorado official results report 3,008 ballots cast for president, and the Cast Vote Record reports 3,008. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 86.3% to Joseph Biden's 12.3%.

  Plotting the mail-in votes over time shows an expected pattern.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes is unremarkable.

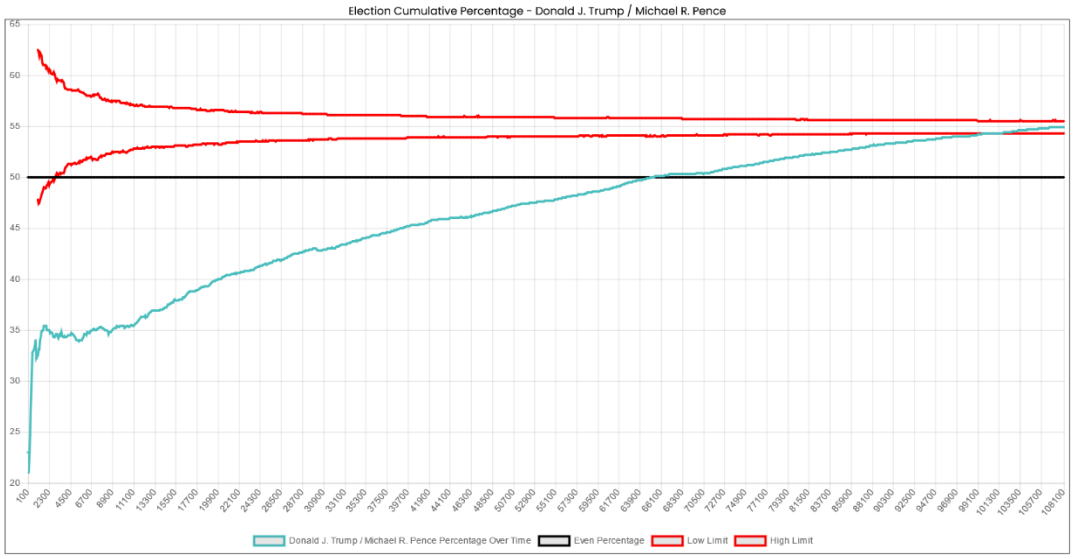


- **Weld County**
  Vendor: Dominion Voting Systems

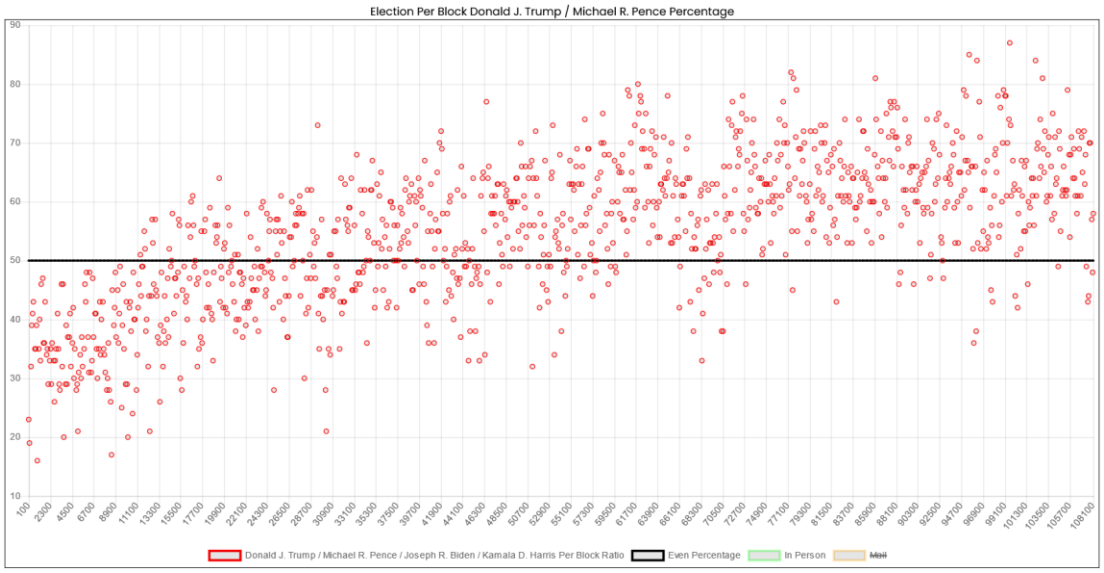
  The Colorado official results report 166,974 ballots cast for president, and the Cast Vote Record reports 166,938. Thus, 36 ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 57.6% to Joseph Biden's 39.6%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.15 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the general gradual rise as the counting proceeds.

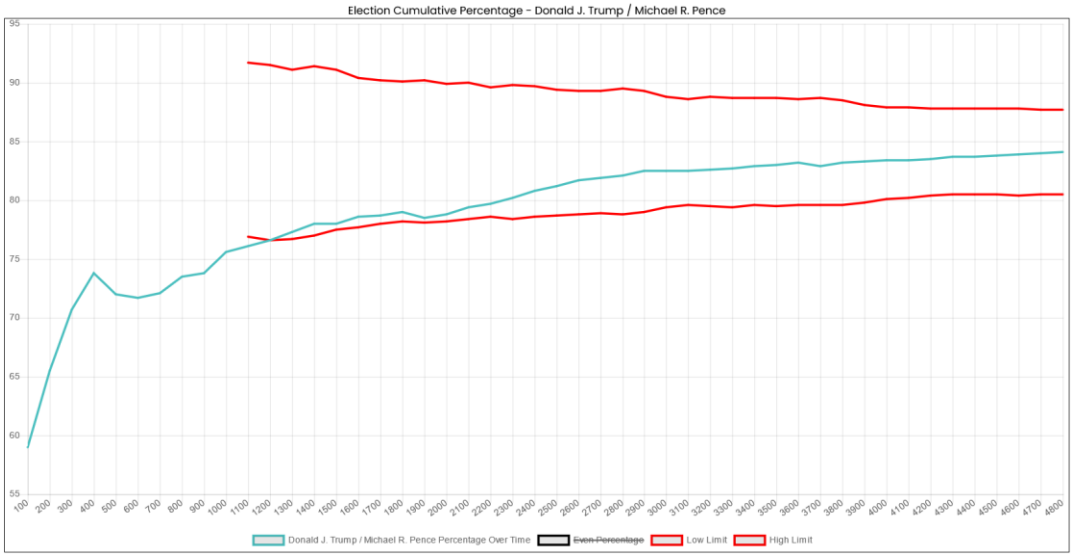


- **Yuma County**
  Vendor: Dominion Voting Systems

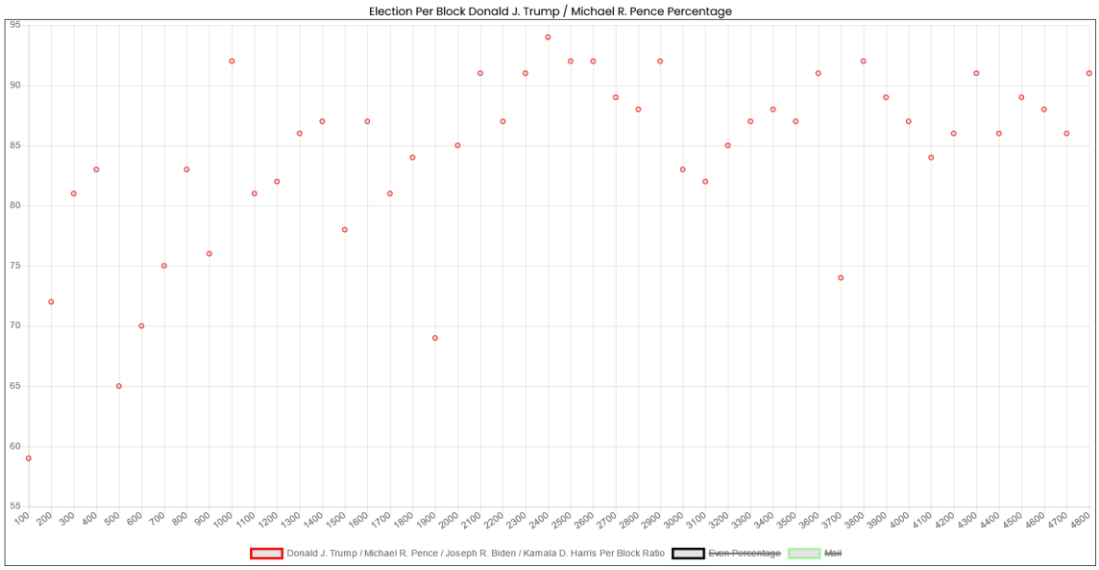
  The Colorado official results report 4,981 ballots cast for president, and the Cast Vote Record reports 4,981. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 82.5% to Joseph Biden's 15.8%.

  Plotting the mail-in votes over time shows the gradual rise of the Mesa Pattern, but the back half rise of 1.04 is outside of the normal 1.1 – 1.3 range, and the plot fits – almost – entirely within the red cone.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a slight upward pattern but is very mild.



COUNTY SUMMARY ANALYSIS

The following shows each county for which a Cast Vote Record was received, and a score based upon three criteria.

7. The County shows the visual aspect of the Mesa Pattern (or its reverse) – 1 point.
8. The County has a back half rise (or fall) greater than or equal to 1.1 (rounded) – 1 point.
9. The percentage plot of President Trump's votes exceeds the range of possible values indicated by the red cone – 1 point.

While any score above zero indicates machine manipulation, the actual score may correlate to the severity of the manipulation.

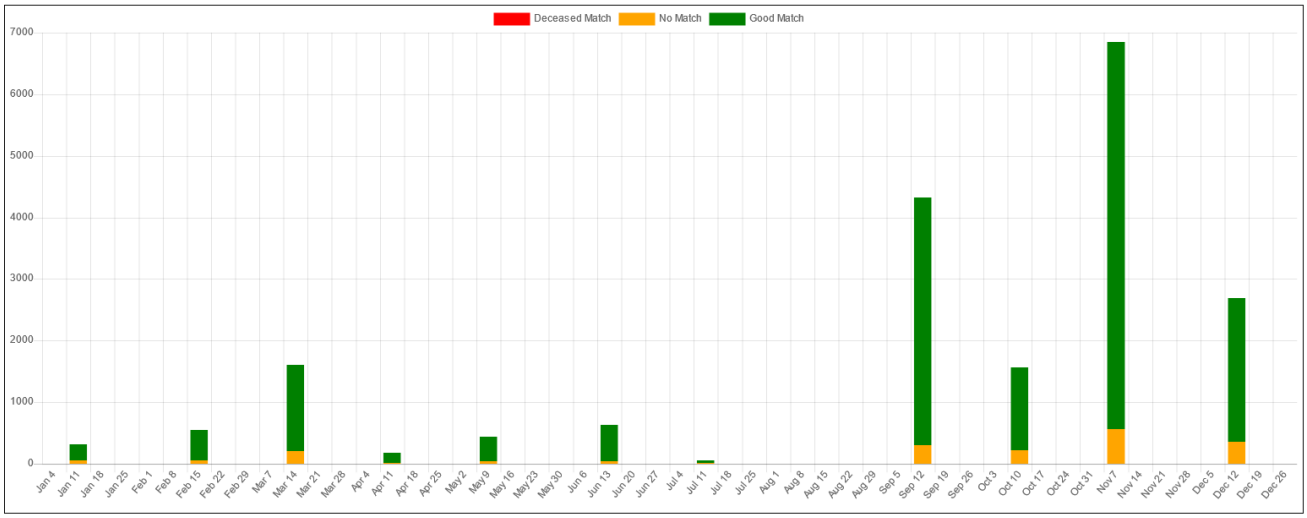
County	Vendor	Manipulation Score
Adams	Dominion Voting Systems	3
Alamosa	Dominion Voting Systems	3
Arapahoe	Dominion Voting Systems	3
Archuleta	Dominion Voting Systems	3
Baca	Dominion Voting Systems	2
Bent	Dominion Voting Systems	3
Boulder	Dominion Voting Systems	3
Broomfield	Dominion Voting Systems	3
Chaffee	Dominion Voting Systems	3
Cheyenne	Dominion Voting Systems	Too Small for Analysis
Clear Creek	Dominion Voting Systems	3
Conejos	Dominion Voting Systems	3
Costilla	Dominion Voting Systems	Too Small for Analysis
Crowley	Dominion Voting Systems	Too Small for Analysis
Custer	Dominion Voting Systems	3
Delta	Dominion Voting Systems	3
Denver	Dominion Voting Systems	3
Dolores	Dominion Voting Systems	Too Small for Analysis
Douglas	Clear Ballot	3
Eagle	Dominion Voting Systems	3
El Paso	Dominion Voting Systems	3
Elbert	Dominion Voting Systems	3
Fremont	Dominion Voting Systems	3
Garfield	Clear Ballot	3
Gilpin	Dominion Voting Systems	3
Grand	Dominion Voting Systems	3
Gunnison	Dominion Voting Systems	3
Hinsdale	Dominion Voting Systems	Too Small for Analysis
Huerfano	Dominion Voting Systems	3
Jackson	Dominion Voting Systems	3
Jefferson	Dominion Voting Systems	Cannot Be Determined
Kiowa	Dominion Voting Systems	Too Small for Analysis
Kit Carson	Dominion Voting Systems	2
La Plata	Dominion Voting Systems	3
Lake	Dominion Voting Systems	3
Larimer	Dominion Voting Systems	3
Las Animas	Dominion Voting Systems	Cannot Be Determined

Lincoln	Dominion Voting Systems	0
Logan	Dominion Voting Systems	3
Mesa	Dominion Voting Systems	3
Mineral	Dominion Voting Systems	Too Small for Analysis
Moffat	Dominion Voting Systems	1
Montezuma	Dominion Voting Systems	3
Montrose	Dominion Voting Systems	3
Morgan	Dominion Voting Systems	2
Otero	Dominion Voting Systems	3
Ouray	Dominion Voting Systems	3
Park	Dominion Voting Systems	3
Phillips	Dominion Voting Systems	Too Small for Analysis
Pitkin	Dominion Voting Systems	3
Pueblo	Dominion Voting Systems	3
Rio Blanco	Dominion Voting Systems	1
Rio Grande	Dominion Voting Systems	3
Routt	Dominion Voting Systems	3
Saguache	Dominion Voting Systems	3
San Miguel	Dominion Voting Systems	3
Sedgwick	Dominion Voting Systems	Too Small for Analysis
Summit	Dominion Voting Systems	3
Teller	Dominion Voting Systems	3
Washington	Dominion Voting Systems	0
Weld	Dominion Voting Systems	3
Yuma	Dominion Voting Systems	1

STATE HAVV LOOKUP ANALYSIS

Colorado's HAVV lookup statistics (as provided by the Social Security Administration) give the appearance that this program is being abused to register unqualified voters. A total of 19,225 queries were made by the state during 2020, and 1,903 of them were rejected as "no match". 3 of the queries were rejected as "Single Match Deceased". The HAVV queries, unlike other states, appear to be being submitted once per month, which is troubling as it indicates that applicants for voting registration may be being approved and the actual check run with all the others received during the month, calling into question the state's procedure for removing the voters whose applications were eventually rejected.

On November 7th, four days after the election, 6,846 were submitted to the Social Security Administration. This leads me to believe that quite a number of these individuals had been registered before the election with no check to see if their information was verified. The question also remains whether 19,225 Colorado citizens applied to register to vote without valid identification.



ELECTION NIGHT RESULT ANOMALIES

This table lists Colorado counties which experienced election night reporting anomalies. The data is taken from the Edison/New York Times election night reporting results from the 2020 General Election.

There are three different vote totals reported for each candidate in the election night reporting, the total votes, the election day votes, and the absentee votes. If there are votes removed from the election day or absentee and there is not a corresponding drop in total votes, that means that vote counts were shifted from election day to absentee or vice versa.

ARAPAHOE	11/25/2020 15:40	Trump	33	Total Votes
ARAPAHOE	11/25/2020 15:40	Biden	66	Total Votes
ARAPAHOE	11/25/2020 15:40	Trump	33	Election Day Votes
ARAPAHOE	11/25/2020 15:40	Biden	66	Election Day Votes
DOUGLAS	11/15/2020 22:41	Trump	609	Total Votes
DOUGLAS	11/15/2020 22:41	Biden	454	Total Votes
DOUGLAS	11/15/2020 22:41	Trump	609	Election Day Votes
DOUGLAS	11/15/2020 22:41	Biden	454	Election Day Votes

Note that there was one reduction in each county, reducing the election day votes for the candidates by the number of votes indicated.

CONSECUTIVE VOTES FOR CANDIDATES WITH LESS THAN 1% PROBABILITY

The mail-in votes show the following number of Consecutive Votes For the indicated candidate, and the likelihood of that many consecutive votes occurring given the final percentage breakdown of the votes. The existence of so many of these very improbable runs is an additional indication of the algorithm used to affect the vote results and would be expected given the smoothing sorting of votes indicated by the Mesa Pattern.

Counties not listed did not have any vote runs which fell below the 1% probability or exhibited precinct level sorting.

Adams

Consecutive Votes For President Trump		
Run	**#**	
20	3	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
31	2	Very Unlikely (0.1-1%)

32	2	Very Unlikely (0.1-1%)

Arapahoe

Consecutive Votes for Joseph Biden		
Run	**#**	
37	4	Very Unlikely (0.1-1%)
38	2	Very Unlikely (0.1-1%)
39	3	Very Unlikely (0.1-1%)

Archuleta

Consecutive Votes for Joseph Biden		
Run	**#**	
15	3	Very Unlikely (0.1-1%)

Boulder

Consecutive Votes for President Trump		
Run	**#**	
11	4	Very Unlikely (0.1-1%)
16	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
62	10	Very Unlikely (0.1-1%)
66	4	Very Unlikely (0.1-1%)
67	3	Very Unlikely (0.1-1%)
72	2	Very Unlikely (0.1-1%)
73	3	Very Unlikely (0.1-1%)
76	2	Very Unlikely (0.1-1%)
81	3	Extremely Unlikely (<0.1%)
87	4	Extremely Unlikely (<0.1%)
130	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
17	2	Very Unlikely (0.1-1%)

Denver

Consecutive Votes for Joseph Biden		
Run	#	
91	2	Very Unlikely (0.1-1%)

Douglas

Consecutive Votes for President Trump		
Run	#	
25	9	Very Unlikely (0.1-1%)
26	3	Very Unlikely (0.1-1%)
27	2	Very Unlikely (0.1-1%)
29	2	Very Unlikely (0.1-1%)
31	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
20	6	Very Unlikely (0.1-1%)
22	4	Very Unlikely (0.1-1%)
23	4	Very Unlikely (0.1-1%)

El Paso

Consecutive Votes for President Trump		
Run	#	
28	4	Very Unlikely (0.1-1%)
29	4	Very Unlikely (0.1-1%)
30	2	Very Unlikely (0.1-1%)
31	4	Very Unlikely (0.1-1%)
33	2	Extremely Unlikely (<0.1%)
35	2	Extremely Unlikely (<0.1%)
41	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
20	8	Very Unlikely (0.1-1%)
21	2	Very Unlikely (0.1-1%)
22	2	Very Unlikely (0.1-1%)

Jefferson

Consecutive Votes for President Trump		
Run	#	
17	9	Very Unlikely (0.1-1%)
18	6	Very Unlikely (0.1-1%)
19	4	Very Unlikely (0.1-1%)
21	3	Extremely Unlikely (<0.1%)
22	3	Extremely Unlikely (<0.1%)
23	3	Extremely Unlikely (<0.1%)
28	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
31	4	Very Unlikely (0.1-1%)
34	2	Very Unlikely (0.1-1%)

La Plata

Consecutive Votes for President Trump		
Run	#	
17	2	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	#	
28	3	Very Unlikely (0.1-1%)
30	2	Very Unlikely (0.1-1%)
41	2	Extremely Unlikely (<0.1%)

Larimer

Consecutive Votes for President Trump		
Run	#	
18	4	Very Unlikely (0.1-1%)
19	6	Very Unlikely (0.1-1%)
20	2	Very Unlikely (0.1-1%)
21	3	Extremely Unlikely (<0.1%)
23	2	Extremely Unlikely (<0.1%)
25	2	Extremely Unlikely (<0.1%)
27	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
27	9	Very Unlikely (0.1-1%)
28	7	Very Unlikely (0.1-1%)
29	7	Very Unlikely (0.1-1%)
30	6	Very Unlikely (0.1-1%)
31	2	Very Unlikely (0.1-1%)
32	6	Extremely Unlikely (<0.1%)
33	3	Very Unlikely (0.1-1%)
34	3	Extremely Unlikely (<0.1%)
36	3	Extremely Unlikely (<0.1%)
37	4	Extremely Unlikely (<0.1%)
38	4	Extremely Unlikely (<0.1%)
39	2	Extremely Unlikely (<0.1%)
41	2	Extremely Unlikely (<0.1%)
54	2	Extremely Unlikely (<0.1%)

Mesa

Consecutive Votes for Joseph Biden		
Run	#	
17	2	Very Unlikely (0.1-1%)

Montrose

Consecutive Votes for Joseph Biden		
Run	#	
14	2	Very Unlikely (0.1-1%)

Pueblo

Consecutive Votes for President Trump		
Run	#	
20	6	Very Unlikely (0.1-1%)
22	2	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	#	
25	2	Very Unlikely (0.1-1%)

Routt

Consecutive Votes for President Trump		
Run	#	
19	2	Extremely Unlikely (<0.1%)

Weld

Consecutive Votes for Joseph Biden		
Run	#	
19	3	Very Unlikely (0.1-1%)
21	2	Very Unlikely (0.1-1%)

IDAHO

Just 2 of the 44 Idaho Counties responded positively to public records requests for Cast Vote Records.

Both counties show the Mesa Pattern in their mail-in ballots. Canyon County showed a back half rise of 1.09, and Bonner County showed a back half rise of 1.13, which places them comfortably within the range of 1.1 to 1.3 (rounded) which is seen in hundreds of counties across the country.

The following chart shows the total ballots, Trump mail-in Midpoint percentage, Trump mail-in Endpoint percentage, and the Back Half Rise.

County	Vendor	Mail Votes	Trump Ending %	Trump Mid %	Back Half Rise
Bonner	Hart Intercivic	10,600	49%	43%	1.13
Canyon	Hart Intercivic	36,200	57%	52%	1.09

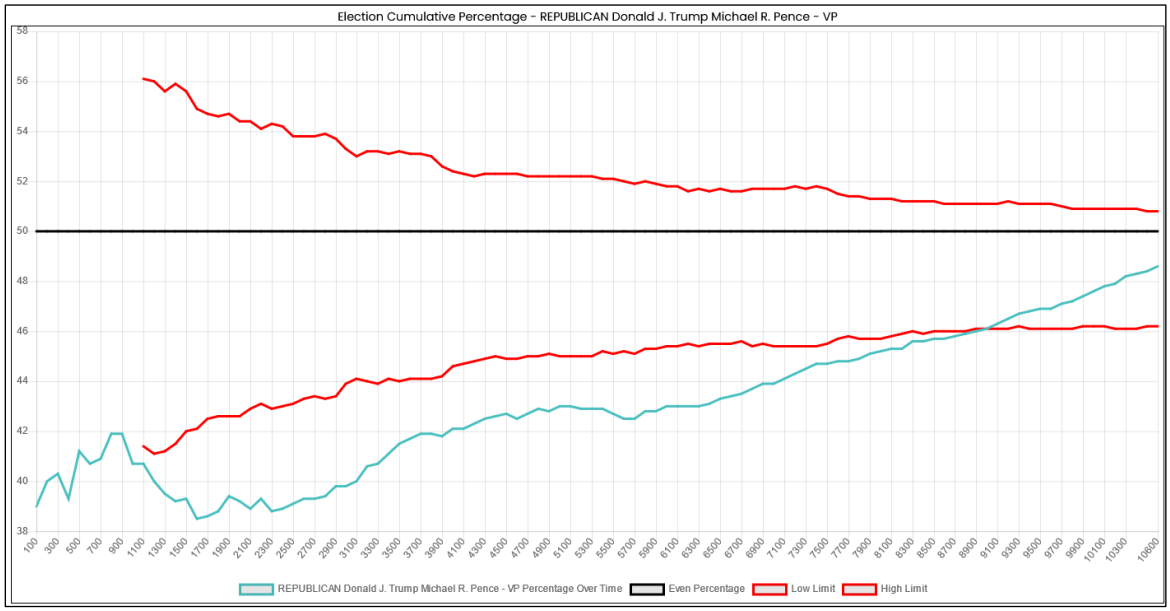
Following is the detailed breakdown of both counties which provided an adequate Cast Vote Record.

- **Bonner County**
  Vendor: Hart Intercivic

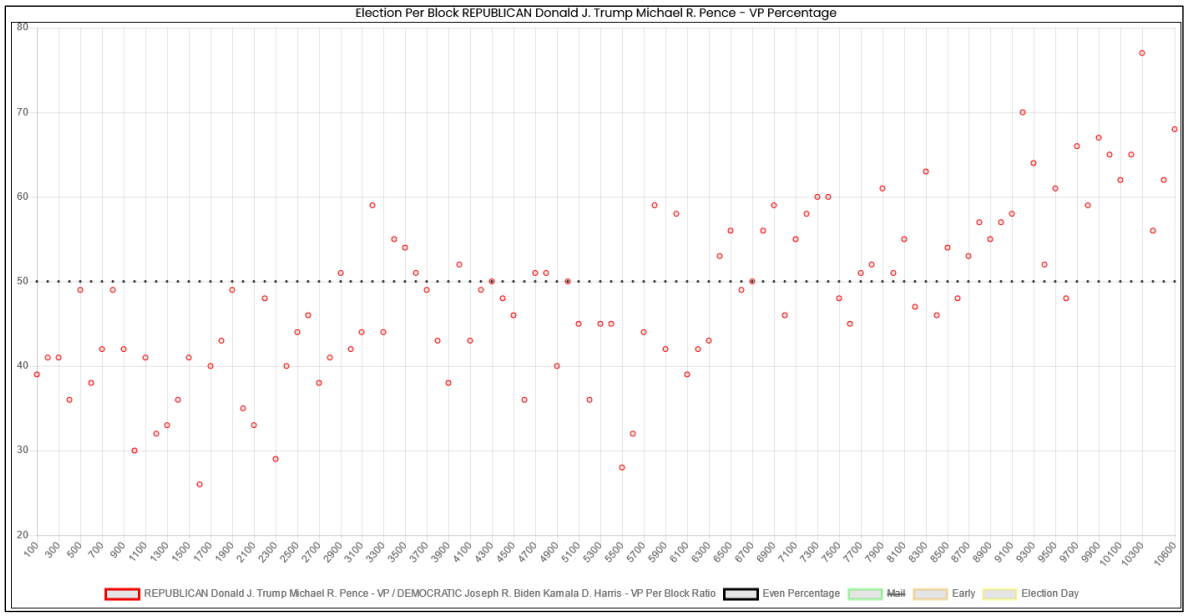
  The Idaho official results report 27,352 ballots cast for president, and the Cast Vote Record report 27,414. Thus, **the Bonner County Cast Vote Record contains 62 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 67.1% to Joseph Biden's 30.4%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half fall of 1.13 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

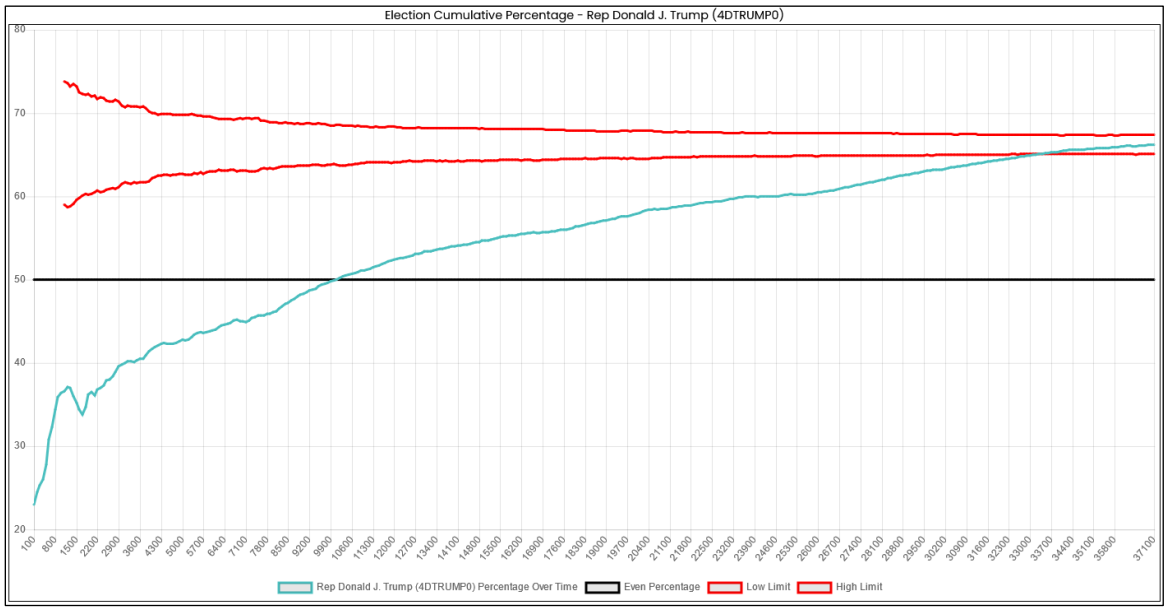


- **<u>Canyon County</u>**
  Vendor: Hart Intercivic

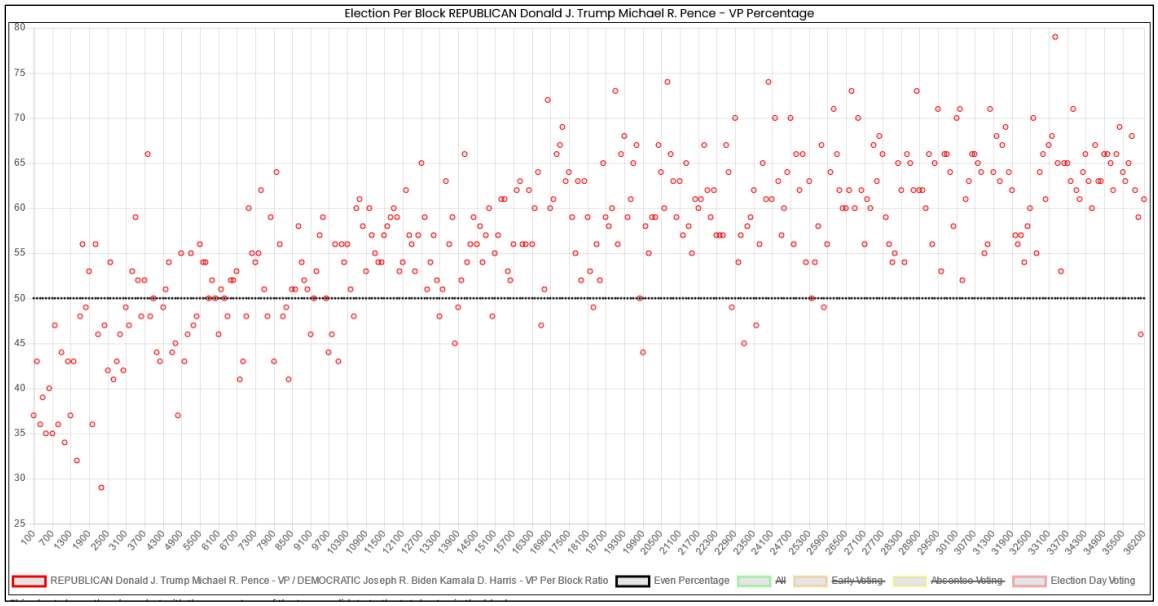
  The Idaho official results report 90,457 ballots cast for president, and the Cast Vote Record report 90,672. Thus, **the Canyon County Cast Vote Record contains 215 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 67.6% to Joseph Biden's 28.3%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.09 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.



COUNTY SUMMARY ANALYSIS

The following shows each county for which a Cast Vote Record was received, and a score based upon three criteria.

10. The County shows the visual aspect of the Mesa Pattern (or its reverse) – 1 point.
11. The County has a back half rise (or fall) greater than or equal to 1.1 (rounded) – 1 point.
12. The percentage plot of President Trump's votes exceeds the range of possible values indicated by the red cone – 1 point.

While any score above zero indicates machine manipulation, the actual score may correlate to the severity of the manipulation.

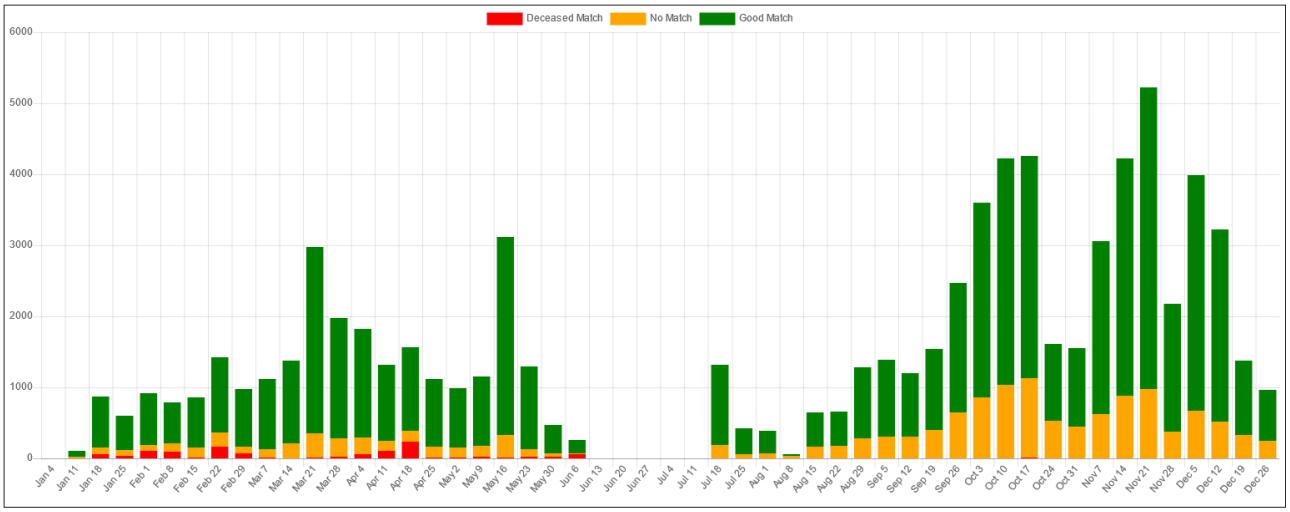
County	Vendor	Manipulation Score
Bonner	Hart Intercivic	3
Canyon	Hart Intercivic	3

2 counties have the highest manipulation score of 3.

STATE HAVV LOOKUP ANALYSIS

Idaho's HAVV lookup statistics (as provided by the Social Security Administration) give the appearance that this program is being abused to register unqualified voters. A total of 76,765 queries were made by the state during 2020, and 14,463 of them were rejected as "no match". 1,231 of the queries were rejected as "Single Match Deceased". The usage disappeared for a time period in June and July, then peaked in the week of November 21st, when 5,223 lookups were requested, with 923 being returned as "no match". Lookups can and do lag behind the actual date of application.

Remembering that this type of voter qualification is intended to be used for those without proper identification, all of these numbers seem extremely high, and should be further investigated.



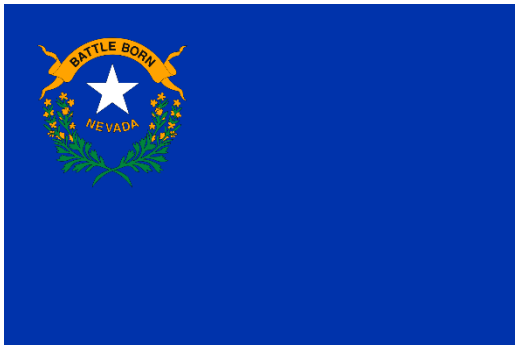
ELECTION NIGHT RESULT ANOMALIES

At 5:08 AM PST, 10 votes were removed by Boise County from both President Trump and Joseph Biden's election day totals.

CONSECUTIVE VOTES FOR CANDIDATES WITH LESS THAN 1% PROBABILITY

None detected.

NEVADA



All 17 Nevada Counties responded positively to public records requests for Cast Vote Records

10 of the 17 counties show the Mesa Pattern in their mail-in ballots, with most of the rest having insufficient mail-in ballots to determine a pattern. The average Back Half Rise of the 10 counties was 1.18, with a Standard Deviation of 0.06.

The following chart shows the total ballots, Trump mail-in Midpoint percentage, Trump mail-in Endpoint percentage, and the Back Half Rise.

State	County	Ballots	Trump Ending %	Trump Mid %	Back Half Rise
Nevada	Churchill	4,200	55%	46%	1.20
Nevada	Clark	440,500	31%	27%	1.14
Nevada	Douglas	19,100	53%	45%	1.20
Nevada	Humboldt	2,500	63%	54%	1.17
Nevada	Lyon	13,800	56%	48%	1.16
Nevada	Mineral	900	49%	44%	1.13
Nevada	Nye	13,300	57%	49%	1.16
Nevada	Pershing	1,000	65%	49%	1.33
Nevada	Washoe	127,100	35%	29%	1.20
Nevada	White Pine	2,000	71%	64%	1.10

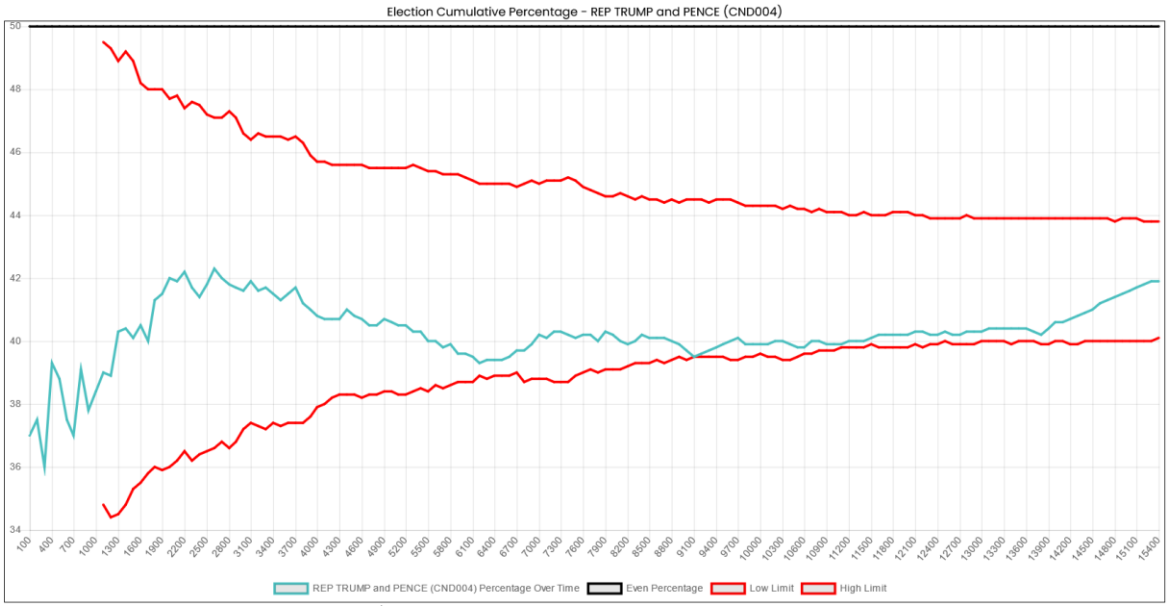
Following is the detailed breakdown of each of the 17 counties.

- **Carson City**
  Vendor: Election Systems & Software

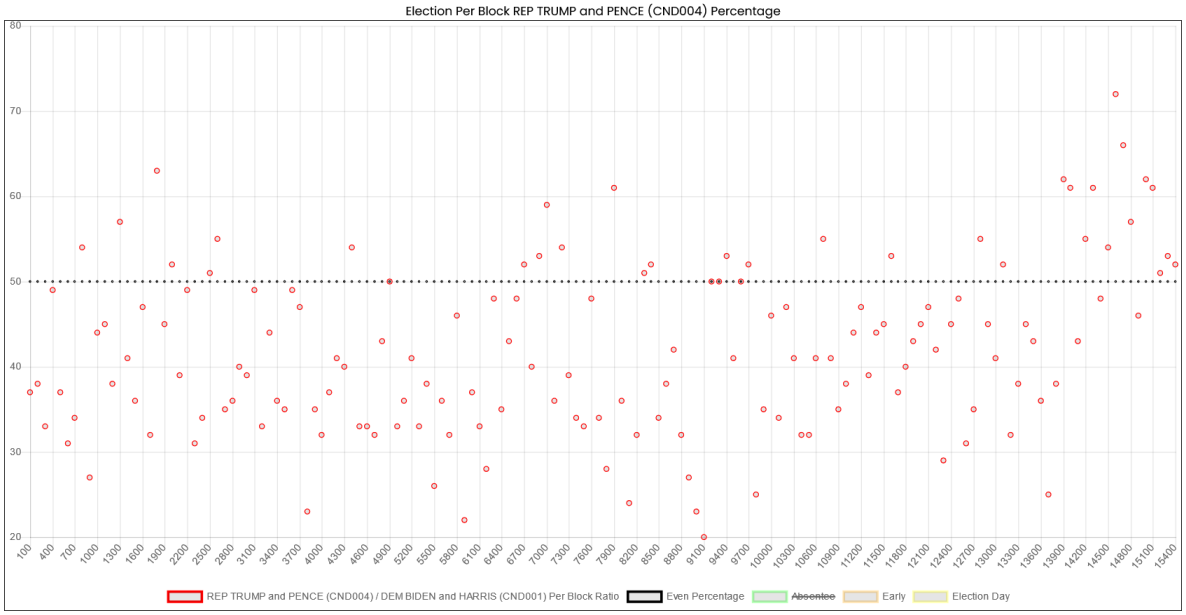
  The Nevada official results report 29,739 ballots cast for president, and the Cast Vote Record report 29,384. Thus, **355** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 54.8% to Joseph Biden's 43.3%.

  Plotting the mail-in votes over time shows close to the expected result. There is a nearly 2% rise in the last approximately 1,600 ballots, which is *not* expected behavior.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a nearly random distribution of blocks, except for the higher section at the end.

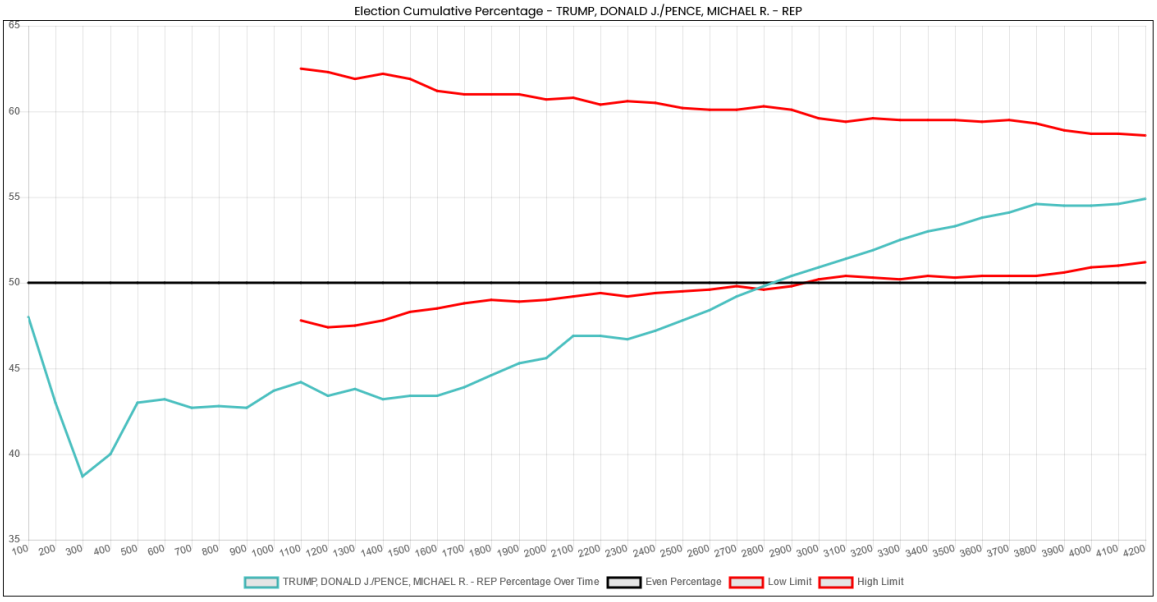


- **Churchill County**
  Vendor: Dominion Voting Systems

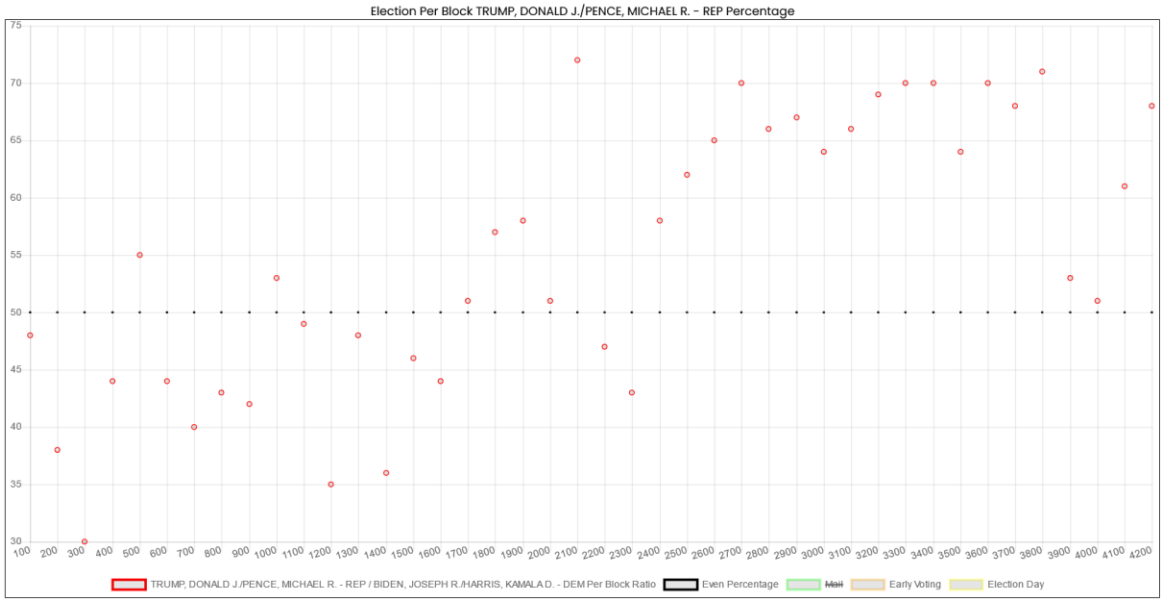
  The Nevada official results report 12,890 ballots cast for president, and the Cast Vote Record report 12,740. Thus, **150** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 72.7% to Joseph Biden's 23.7%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.17 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. The last three blocks show a downward turn.

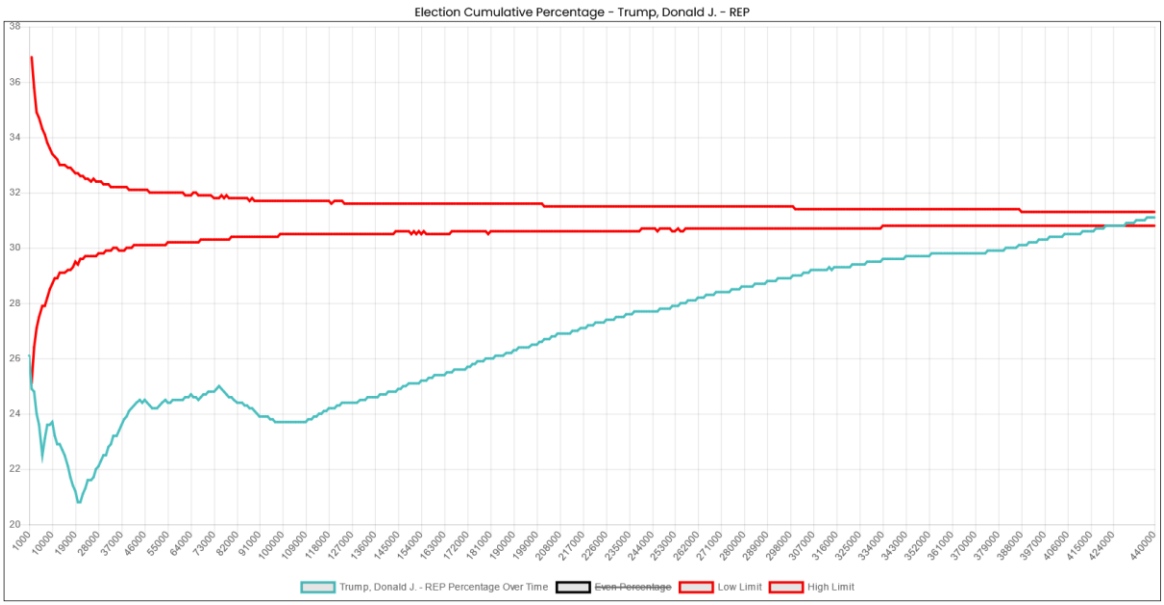


- **Clark County**
  Vendor: Dominion Voting Systems

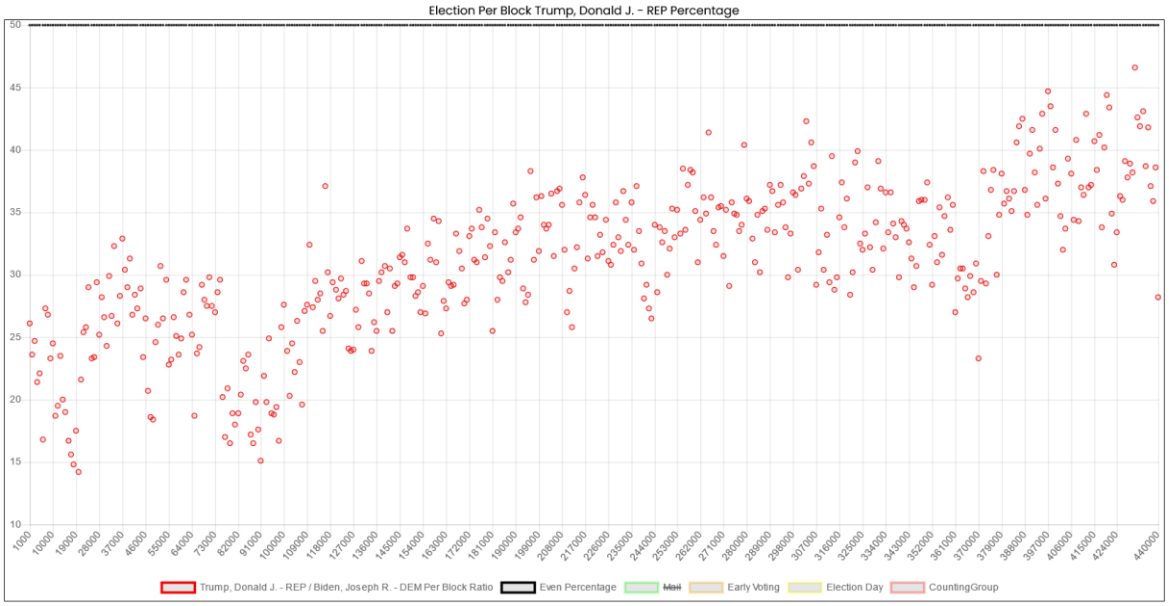
  The Nevada official results report 972,510 ballots cast for president, and the Cast Vote Record report 963,213. Thus, **9,297** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 44.3% to Joseph Biden's 53.7%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.14 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

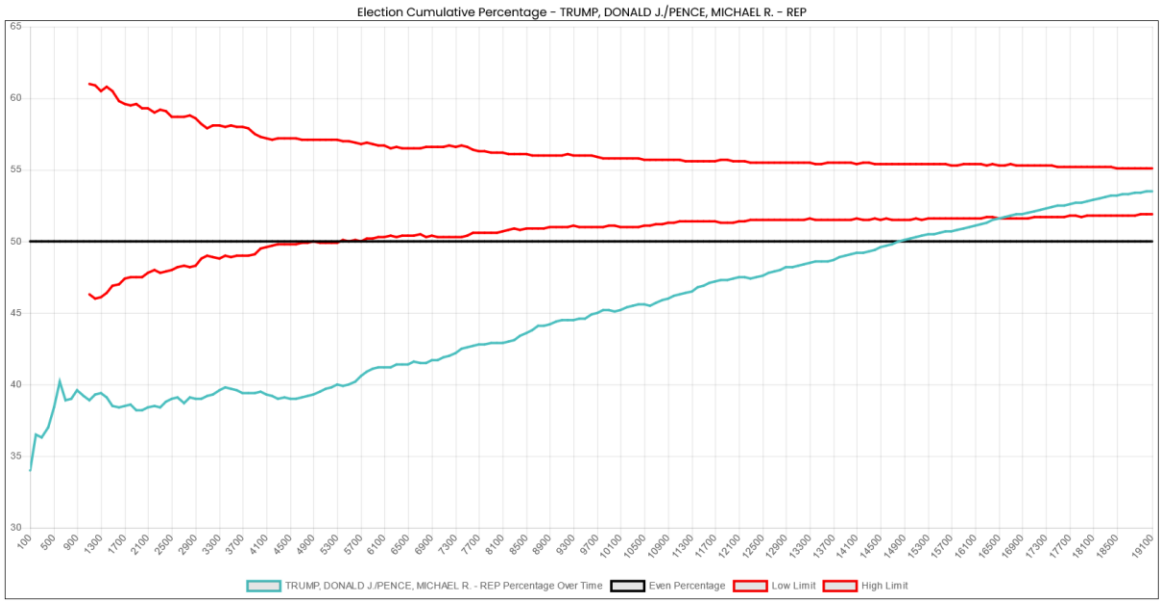


- **Douglas County**
  Vendor: Dominion Voting Systems

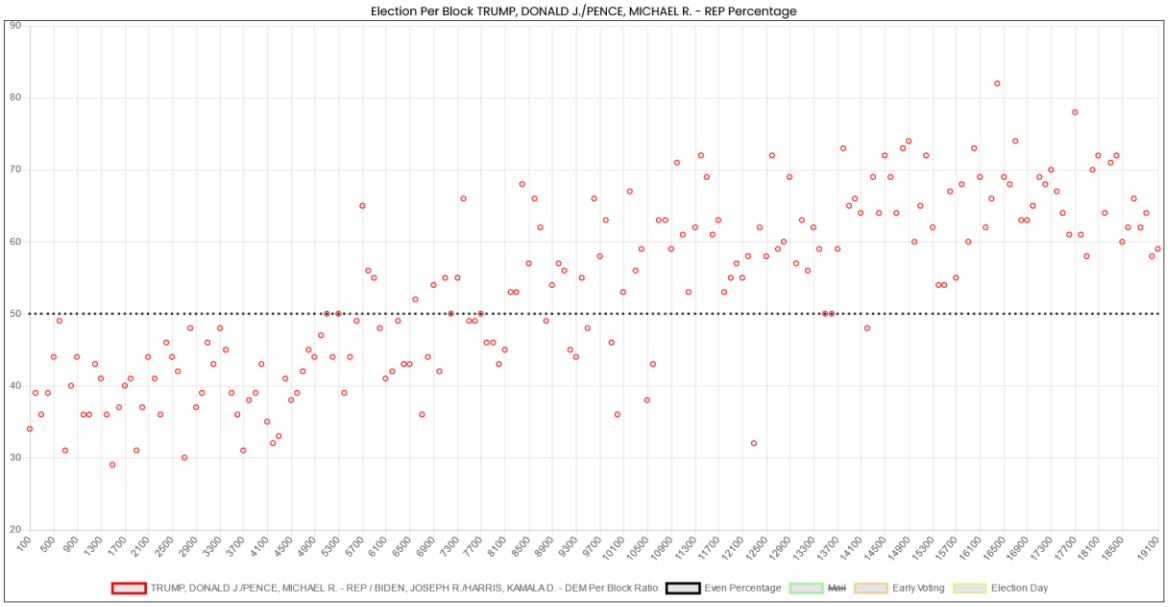
  The Nevada official results report 34,125 ballots cast for president, and the Cast Vote Record report 33,676. Thus, **449** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 63.4% to Joseph Biden's 33.9%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.15 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

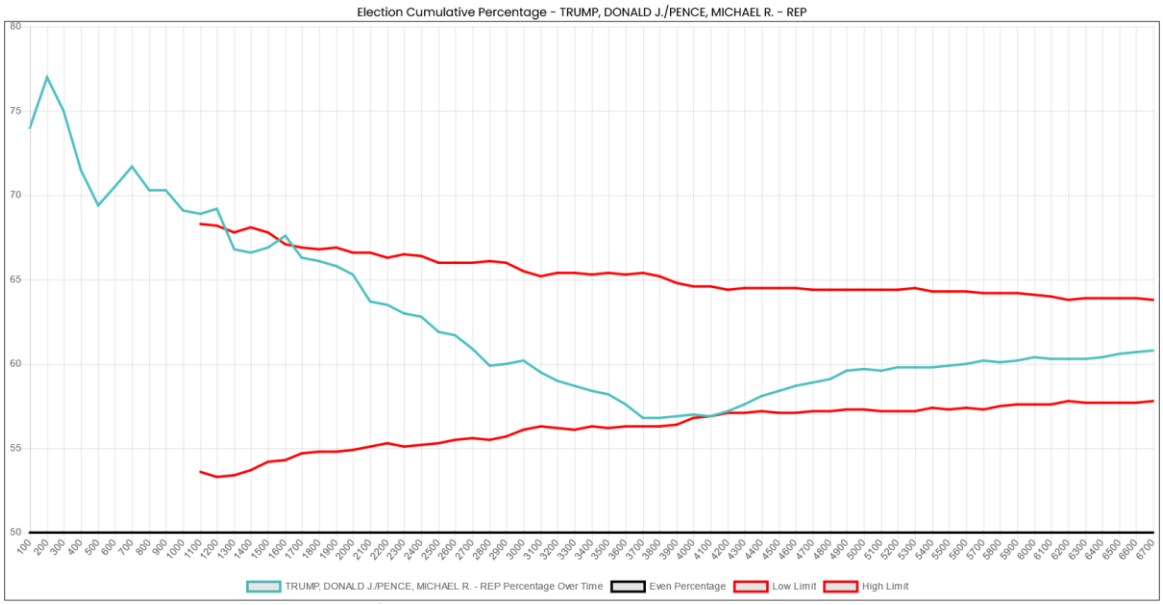


- **Elko County**
  Vendor: Dominion Voting Systems

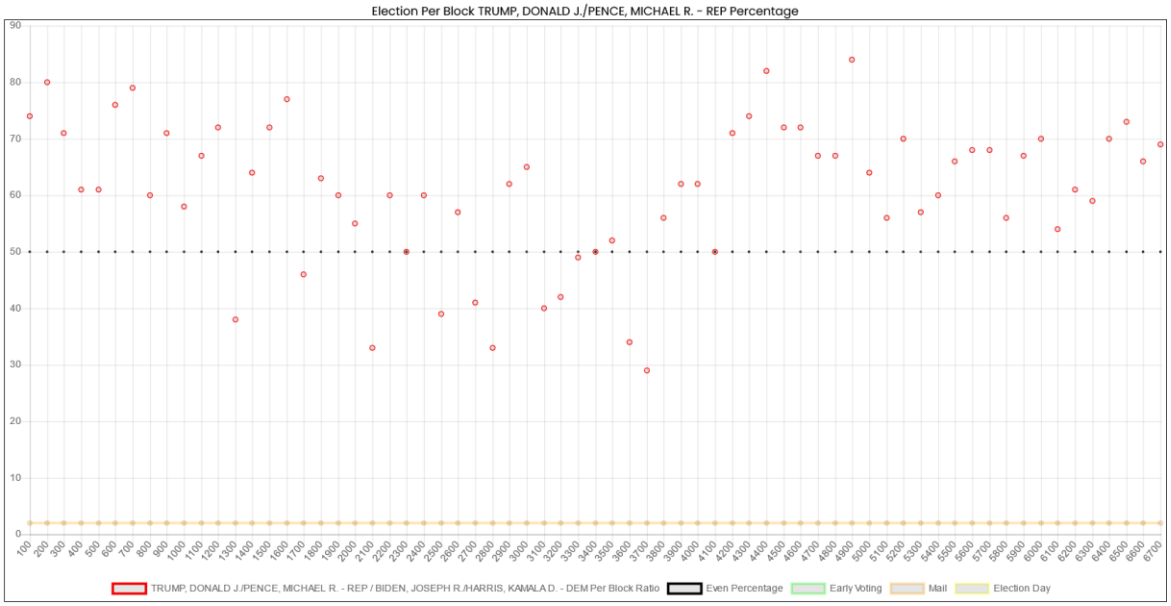
  The Nevada official results report 21,967 ballots cast for president, and the Cast Vote Record reports 21,756. Thus, **211** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 76.2% to Joseph Biden's 20.8%

  Plotting the mail-in votes over time shows an odd plunge through the first half of the counting, but then settles into a nearly expected pattern. An analysis of the precinct distribution of this the mail-in votes does not show the randomness of most other counties, and this accounts for the "dive" seen below.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows the dive referenced above, but otherwise the block distribution looks random.



- **Esmeralda County**
  Vendor: Dominion Voting Systems

  The Nevada official results report 487 ballots cast for president, and the Cast Vote Record reports 487. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 82.1% to Joseph Biden's 15.2%

  Because of the small number of mail-in votes, this county cannot be analyzed for the Mesa Pattern.

- **<u>Eureka County</u>**
  Vendor: Dominion Voting Systems

  The Nevada official results report 1,017 ballots cast for president, and the Cast Vote Record reports 1,009. Thus, **8** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 88.0% to Joseph Biden's 10.3%

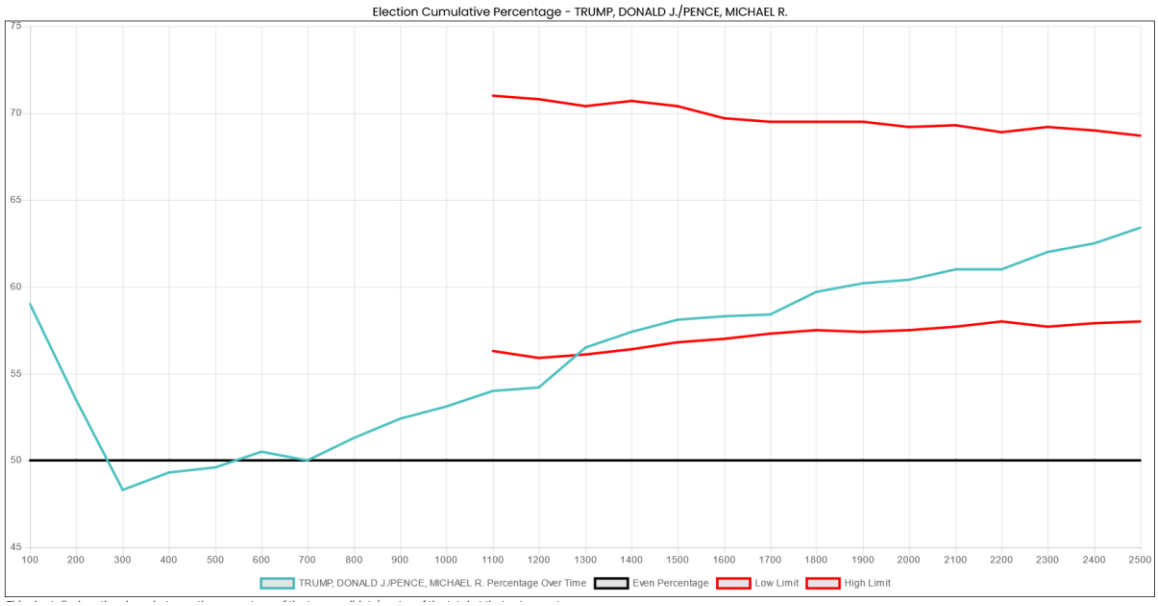
  Because of the small number of mail-in votes, this county cannot be analyzed for the Mesa Pattern.

- **<u>Humboldt County</u>**
  Vendor: Dominion Voting Systems

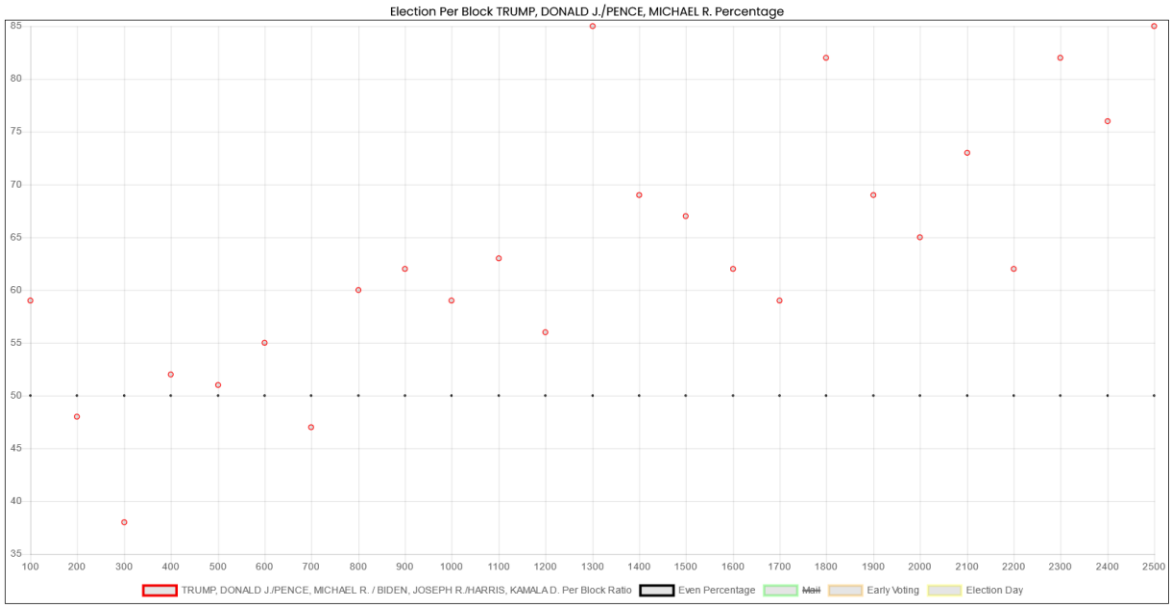
  The Nevada official results report 7,771 ballots cast for president, and the Cast Vote Record report 7,786. **The Cast Vote Record reports 15 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 75.7% to Joseph Biden's 21.8%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.17 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.



- **Lander County**
  Vendor: Election Systems & Software

  The Nevada official results report 2,765 ballots cast for president, and the Cast Vote Record report 2,765. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 79.5% to Joseph Biden's 17.9%

  Because of the small number of mail-in votes, this county cannot be analyzed for the Mesa Pattern.

- **Lincoln County**
  Vendor: Dominion Voting Systems

  The Nevada official results report 2,446 ballots cast for president, and the Cast Vote Record report 2,422. Thus, **24** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 87.4% to Joseph Biden's 11.5%

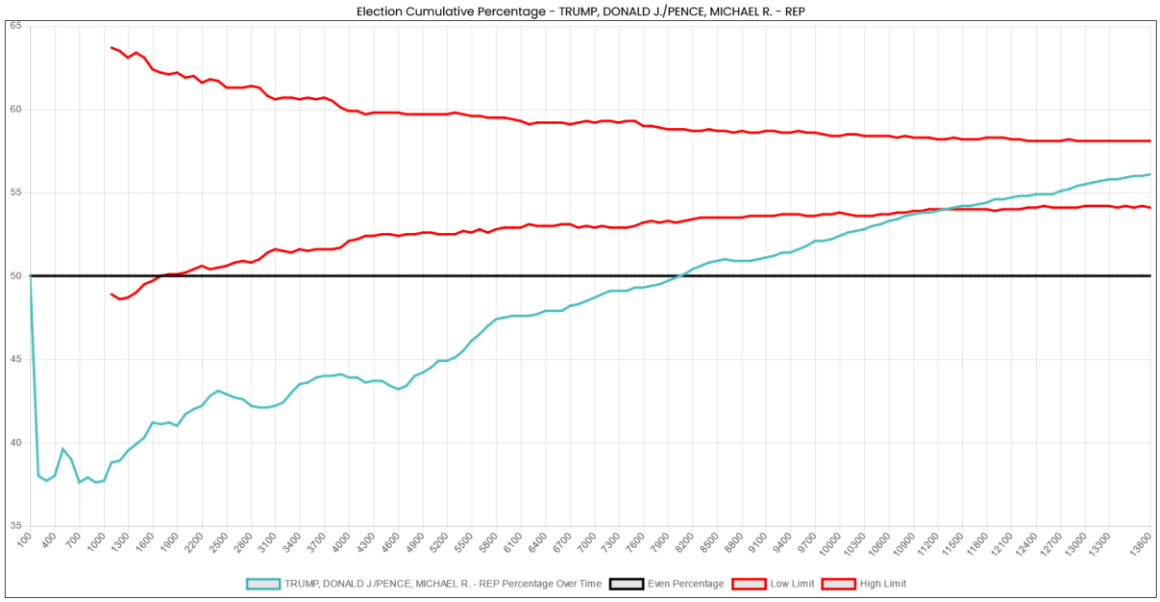
  Because of the low number of mail-in votes in this county, any analysis for Mesa Pattern is not possible.

- **Lyon County**
  Vendor: Dominion Voting Systems

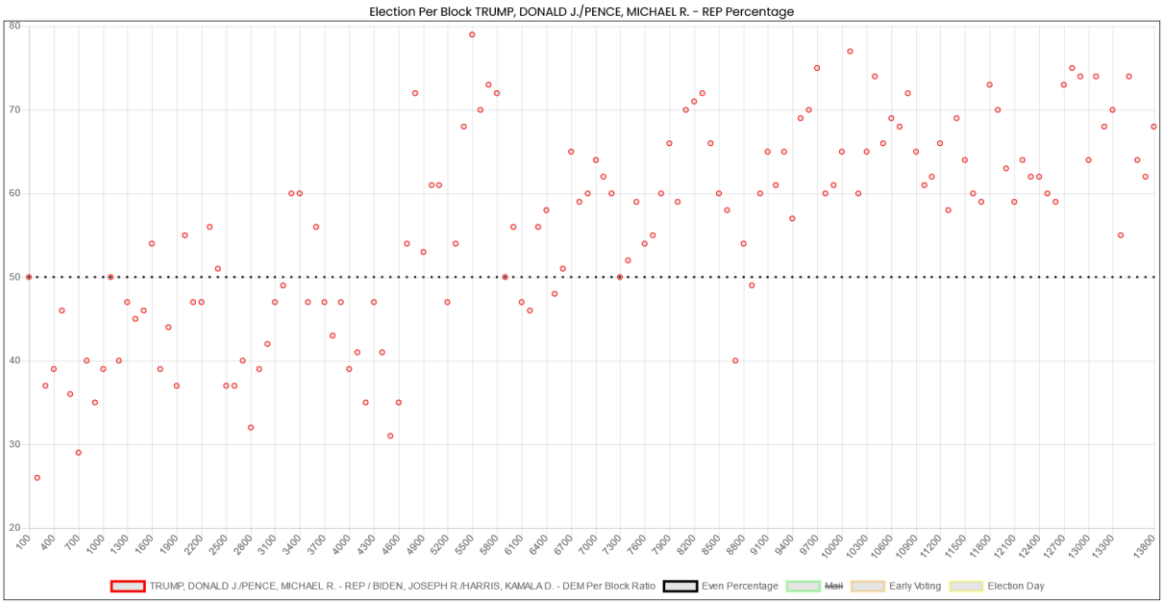
  The Nevada official results report 30,328 ballots cast for president, and the Cast Vote Record report 29,951. Thus, **287** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 69.2% to Joseph Biden's 28.0%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.



- **Mineral County**
  Vendor: Dominion Voting Systems

  The Nevada official results report 2,335 ballots cast for president, and the Cast Vote Record report 2,341. **Thus, the Mineral County Cast Vote Record contains 6 more votes than the official results.**

  According to the Cast Vote Record, President Trump won this county with 61.1% to Joseph Biden's 35.6%

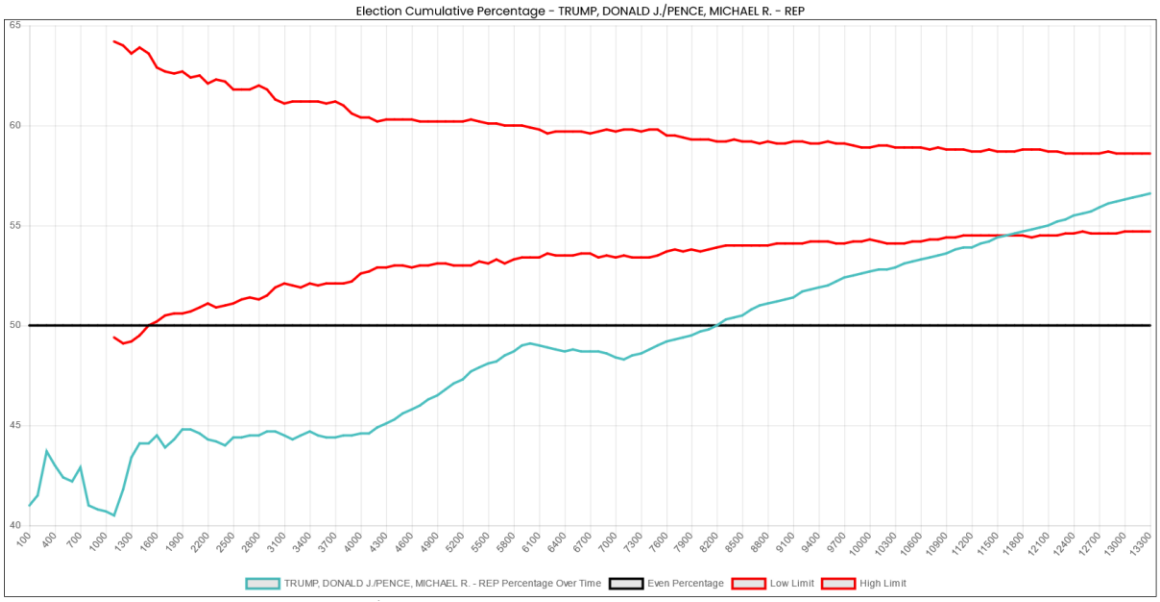
  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **Nye County**
  Vendor: Dominion Voting Systems

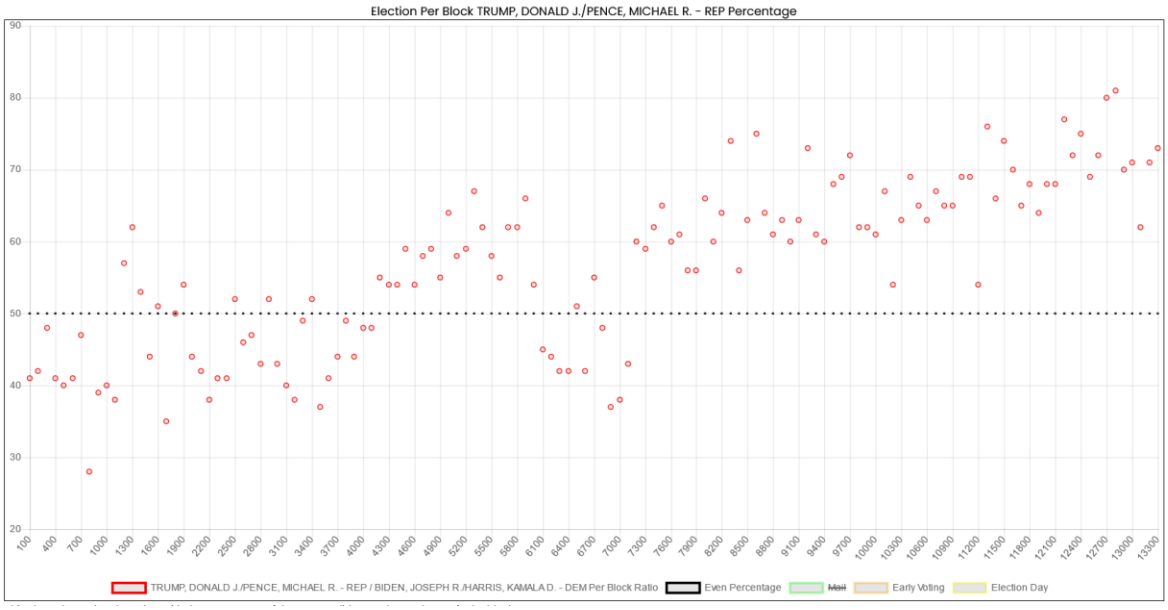
  The Nevada official results report 25,378 ballots cast for president, and the Cast Vote Record report 25,152. Thus, **226** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 69.1% to Joseph Biden's 28.7%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the odd dip about halfway through.



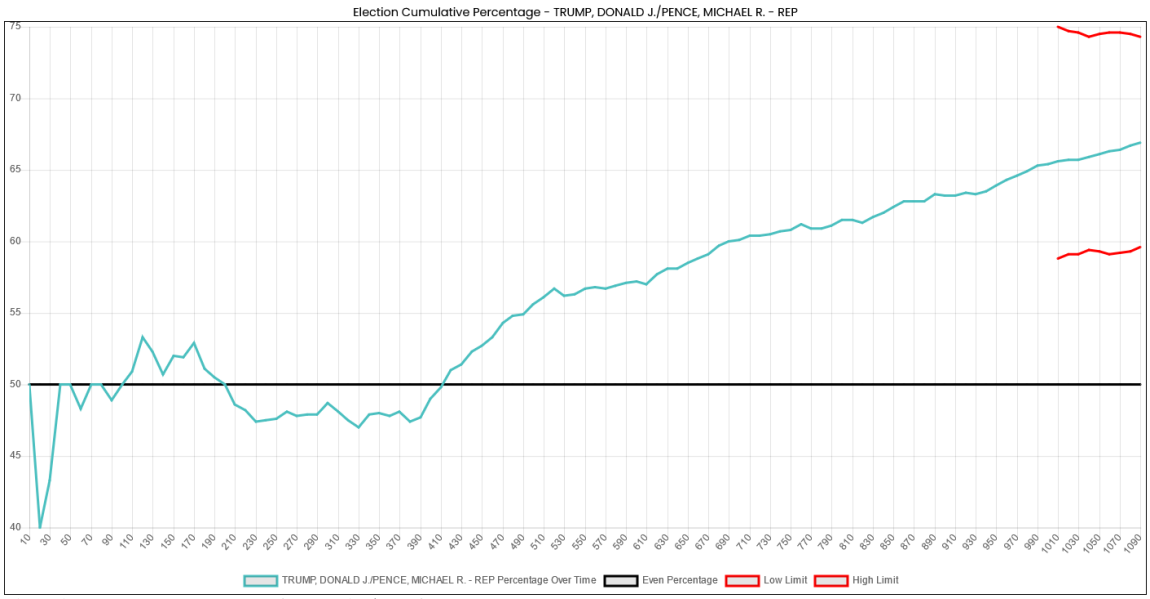
- **<u>Pershing County</u>**
  Vendor: Dominion Voting Systems

  The Nevada official results report 2,320 ballots cast for president, and the Cast Vote Record reports 2,300. Thus, **20** ballots were redacted.

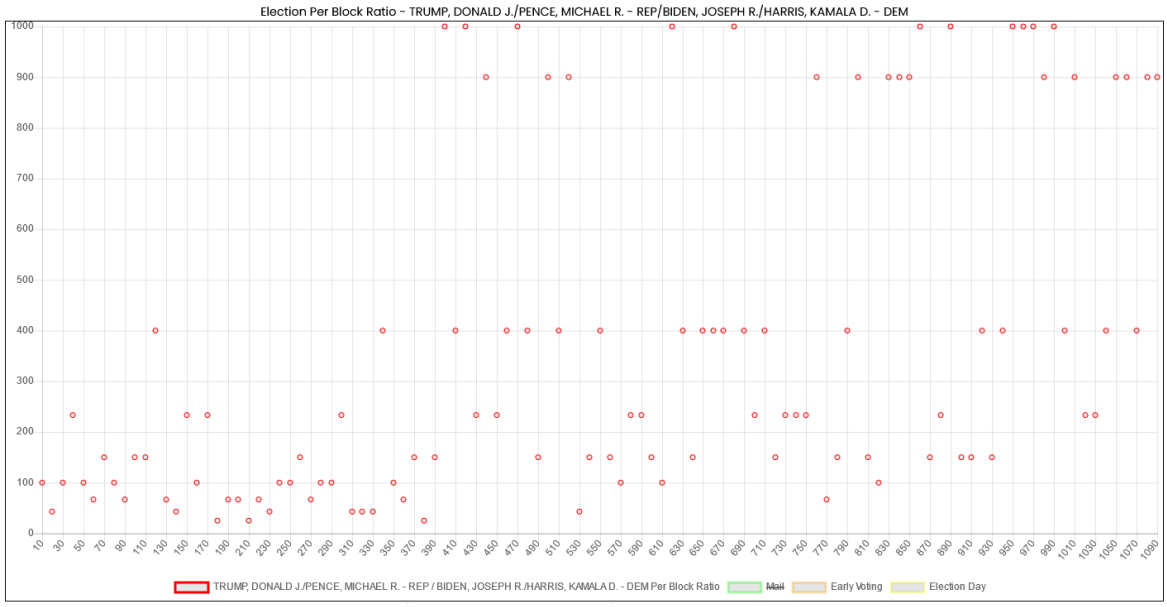
  According to the Cast Vote Record, President Trump won this county with 74.6% to Joseph Biden's 23.6%

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.18 in favor of President Trump.

  Note: graphs show 10 ballot blocks for better resolution.



Plotting the percentage of votes for President Trump of every distinct 10 mail-in votes shows the transition from votes favorable to Joseph Biden to blocks favorable to President Trump. There are three blocks in the first part of the counting in which Joseph Biden is recorded as receiving all 10 of the votes, and 11 blocks after that in which President Trump is recorded as having received all 10 of the votes.



- **Storey County**
  Vendor: Dominion Voting Systems

  The Nevada official results report 2,877 ballots cast for president, and the Cast Vote Record report 2,847. Thus, **30** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 66.3% to Joseph Biden's 31.4%

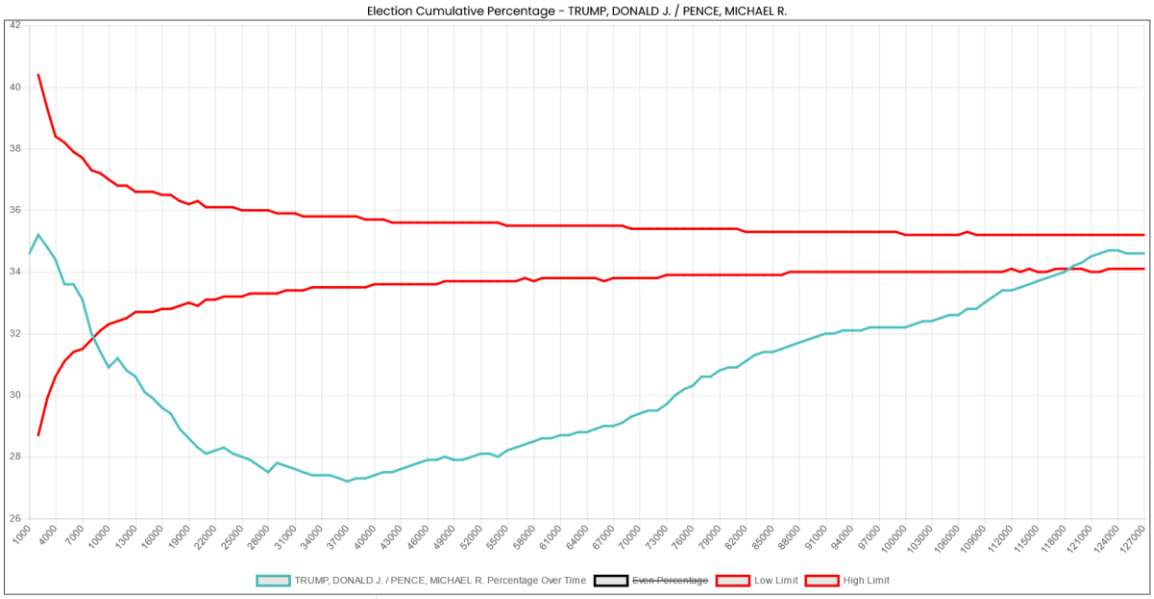
  Because of the low number of votes in this county, any analysis for Mesa Pattern is not possible.

- **<u>Washoe County</u>**
  Vendor: Dominion Voting Systems

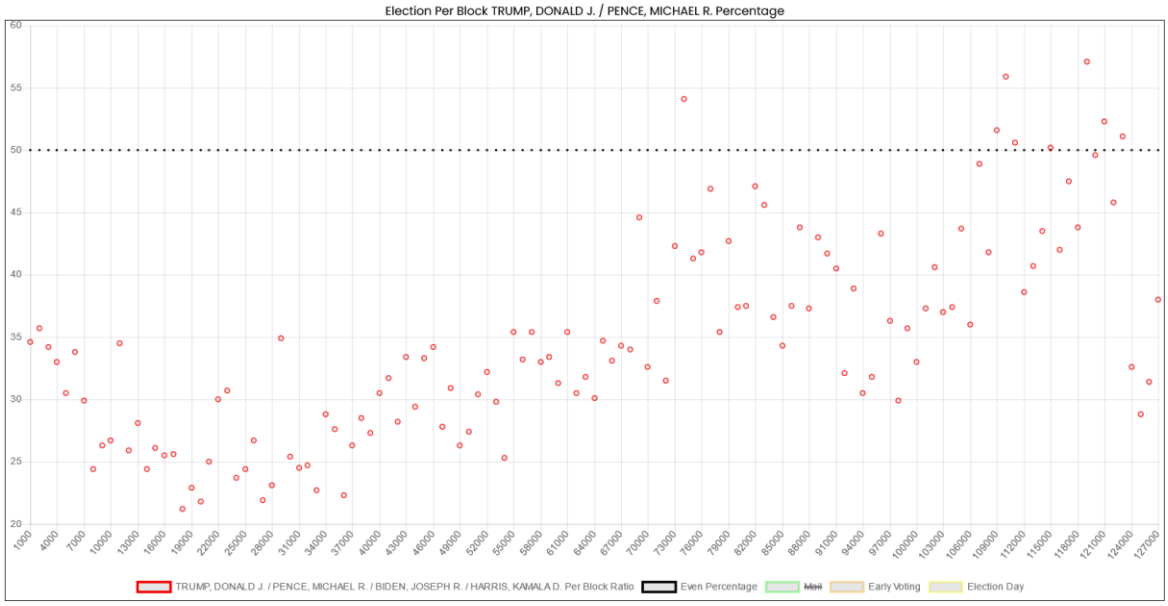
  The Nevada official results report 252,142 ballots cast for president, and the Cast Vote Record also 252,626. **Thus, the Washoe County Cast Vote Record contained 484 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county with 46.4% to Joseph Biden's 50.9%

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.20 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds, with a dip in the last few blocks.

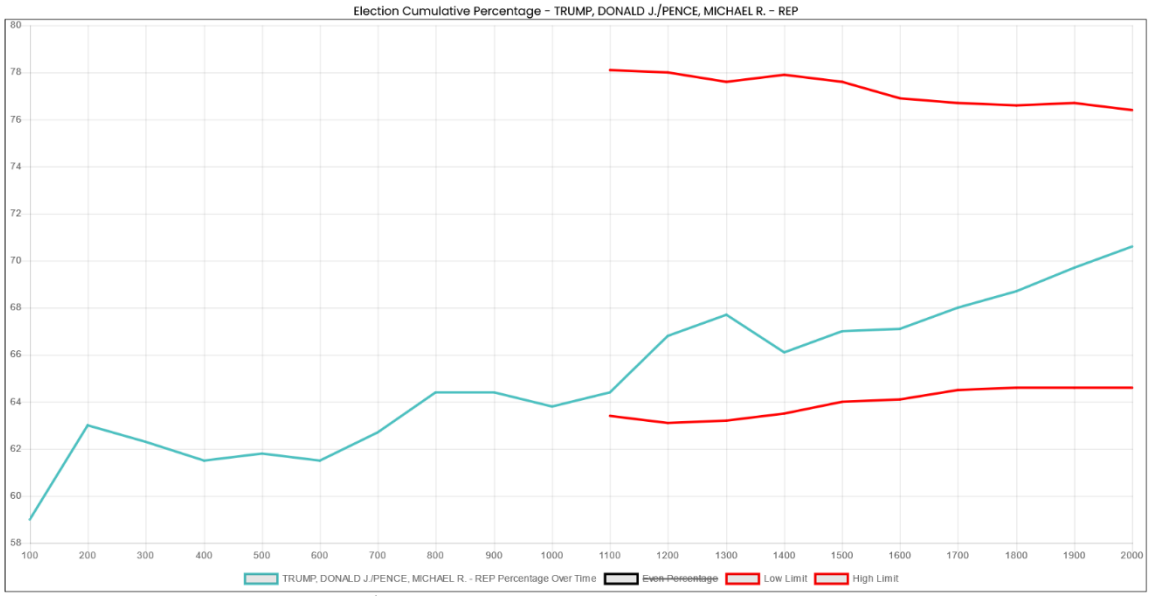


- **<u>White Pine County</u>**
  Vendor: Dominion Voting Systems

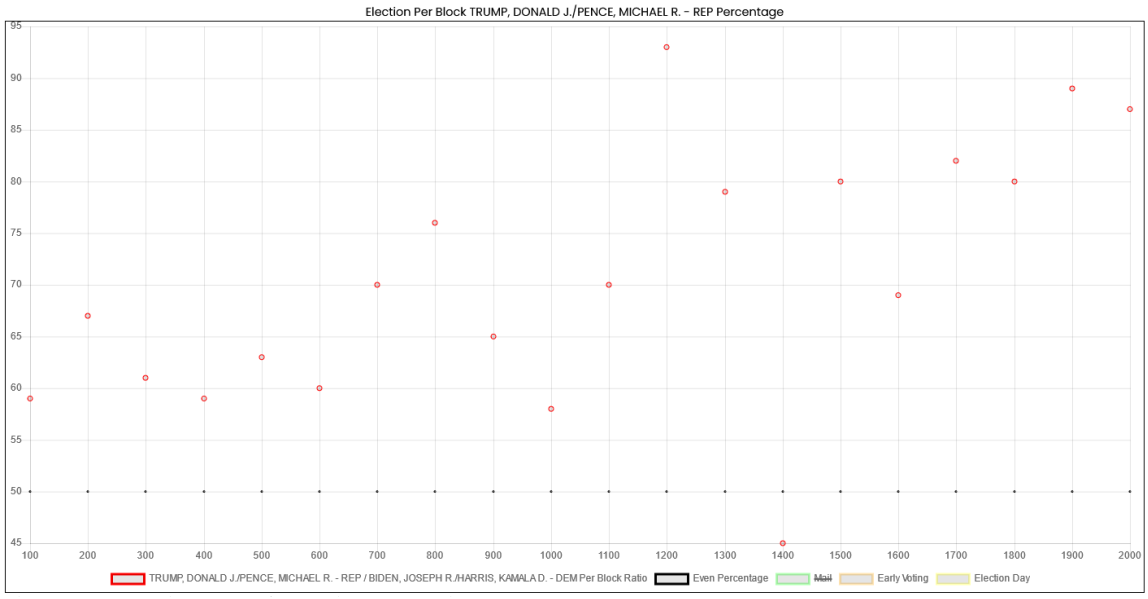
  The Nevada official results report 4,369 ballots cast for president, and the Cast Vote Record reports 4,326. Thus, **43** votes were redacted.

  According to the Cast Vote Record, President Trump won this county with 77.9% to Joseph Biden's 19.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern, with a back half rise of 1.11 in favor of President Trump. The percentage plot does fall within the red cone.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.



COUNTY SUMMARY ANALYSIS

The following shows each county for which a Cast Vote Record was received, and a score based upon three criteria.

13. The County shows the visual aspect of the Mesa Pattern (or its reverse) – 1 point.
14. The County has a back half rise (or fall) greater than or equal to 1.1 (rounded) – 1 point.
15. The percentage plot of President Trump's votes exceeds the range of possible values indicated by the red cone – 1 point.

While any score above zero indicates machine manipulation, the actual score may correlate to the severity of the manipulation.

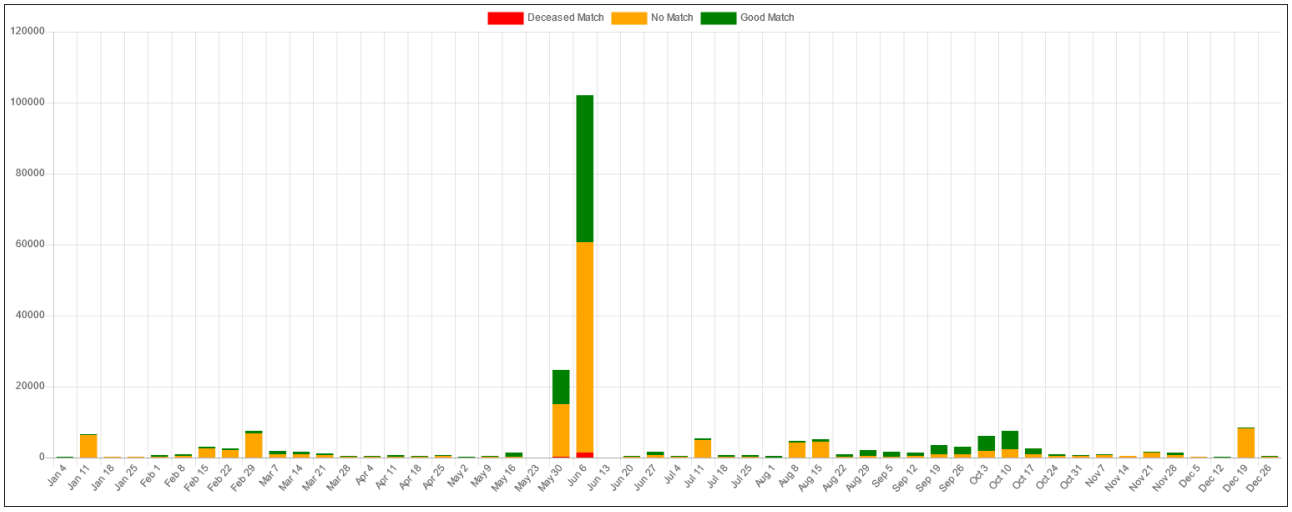
County	Vendor	Manipulation Score
Carson City	Election Systems & Software	0
Churchill	Dominion Voting Systems	3
Clark	Dominion Voting Systems	3
Douglas	Dominion Voting Systems	3
Elko	Dominion Voting Systems	1
Esmeralda	Dominion Voting Systems	Too Small for Analysis
Eureka	Dominion Voting Systems	Too Small for Analysis
Humboldt	Dominion Voting Systems	3
Lander	Dominion Voting Systems	Too Small for Analysis
Lincoln	Dominion Voting Systems	Too Small for Analysis
Lyon	Dominion Voting Systems	3
Mineral	Dominion Voting Systems	Too Small for Analysis
Nye	Dominion Voting Systems	3
Pershing	Dominion Voting Systems	2
Storey	Dominion Voting Systems	Too Small for Analysis
Washoe	Dominion Voting Systems	3
White Pine	Dominion Voting Systems	2

7 counties have the highest manipulation score of 3.
2 counties have a manipulation score of 2.
1 county has a manipulation score of 1.
1 county has a manipulation score of 0 (no pattern observed)

STATE HAVV LOOKUP ANALYSIS

Nevada's HAVV lookup statistics (as provided by the Social Security Administration) give the appearance that this program is being abused to register unqualified voters. A total of 222,359 queries were made by the state during 2020, and 135,936 of them were rejected as "no match". 1,804 of the queries were rejected as "Single Match Deceased". The usage increased exponentially in May and June, with 100,657 lookups reported for the week of June 6th, and 59,354 of them (59%) were rejected as "no match" and 1,424 being rejected as "Single Match Deceased". The week of November 21st, 1,646 lookups are reported, with 1,490 (90.5%) of them returning "no match". Lookups can and do lag behind the actual date of application.

Remembering that this type of voter qualification is intended to be used for those without proper identification, all of these numbers seem extremely high, and should be further investigated.



ELECTION NIGHT RESULT ANOMALIES

None detected.

CONSECUTIVE VOTES FOR CANDIDATES WITH LESS THAN 1% PROBABILITY

The mail-in votes show the following number of consecutive votes for the indicated candidate, and the likelihood of that many consecutive votes occurring given the final percentage breakdown of the votes. The existence of so many of these very improbable runs is an additional indication of the algorithm used to affect the vote results and would be expected given the smoothing sorting of votes indicated by the Mesa Pattern.

Counties not listed did not have any vote runs which fell below the 1% probability or exhibited precinct level sorting.

Consecutive votes for President Trump		
Run	**#**	
15	5	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
48	3	Very Unlikely (0.1-1%)
49	2	Very Unlikely (0.1-1%)
52	2	Extremely Unlikely (<0.1%)

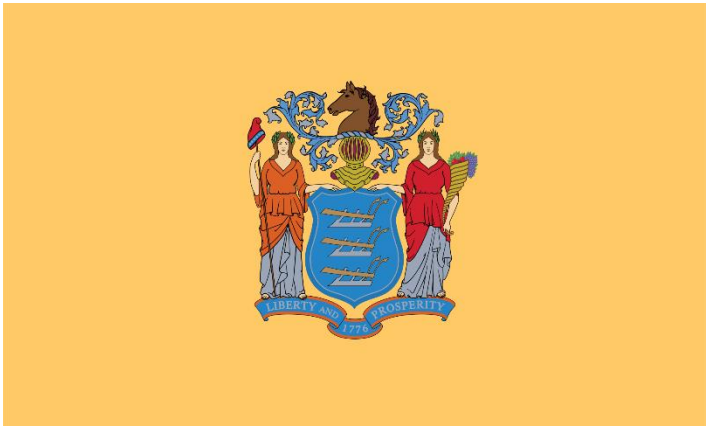
Lyon

Consecutive votes for President Trump		
Run	**#**	
25	2	Very Unlikely (0.1-1%)

Washoe

Consecutive votes for President Trump		
Run	**#**	
16	2	Very Unlikely (0.1-1%)

NEW JERSEY



12 of the 21 New Jersey Counties responded positively to public records requests for Cast Vote Records. 11 of the 12 counties responding show the Mesa Pattern in their mail-in ballots. The average Back Half Rise of the 11 counties was 1.20.

The 12th, Burlington County, shows a Mesa Pattern in the approximate first half of its counting, after which the percentage leveled off to an organic percentage throughout the back half.

Essex and Gloucester counties reported more presidential votes in their Cast Vote Record than are reported by the state. Middlesex County's Cast Vote Record is missing over 100,000 presidential votes compared to the state results.

The following chart shows the total ballots, Trump mail-in Midpoint percentage, Trump mail-in Endpoint percentage, and the Back Half Rise. Because most of these counties are very large, 1,000 vote blocks are used for the graphic analysis, as that shows the patterns more clearly.

County	Vendor	Ballots	Trump Ending %	Trump Mid %	Back Half Rise
Bergen	ES&S	490,000	42%	35%	1.19
Burlington	Dominion	272,528	40%	38%	1.05[7]
Camden	Dominion	230,340	33%	27%	1.22
Cumberland	Dominion	50,400	46%	37%	1.22
Essex	Dominion	306,800	22%	19%	1.17
Gloucester	ES&S	159,600	49%	41%	1.20
Hudson	Dominion	212,900	25%	19%	1.31
Middlesex	ES&S	260,700	36%	28%	1.27
Monmouth	Dominion	362,100	52%	44%	1.16
Passaic	Dominion	204,000	42%	38%	1.11
Salem	Dominion	31,400	57%	53%	1.07
Union	ES&S	226,700	32%	26%	1.26

Following is the detailed breakdown of each of the 61 counties which provided an adequate Cast Vote Record.

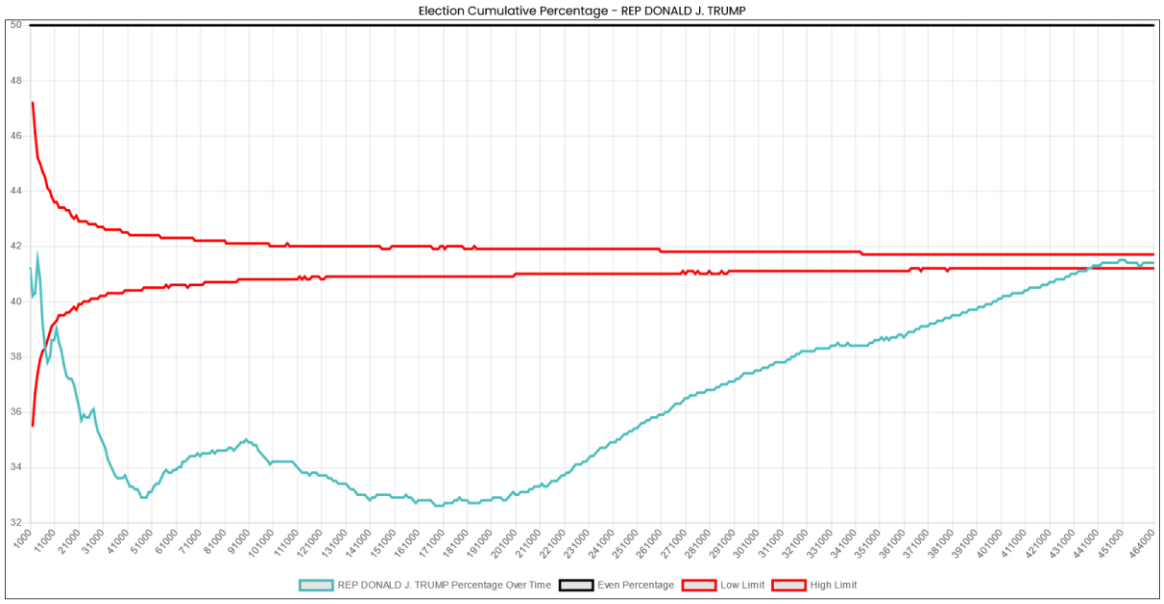
[7] See county detail for explanation why this county's back half rise is misleading.

- **Bergen County**
  Vendor: Election Systems & Software

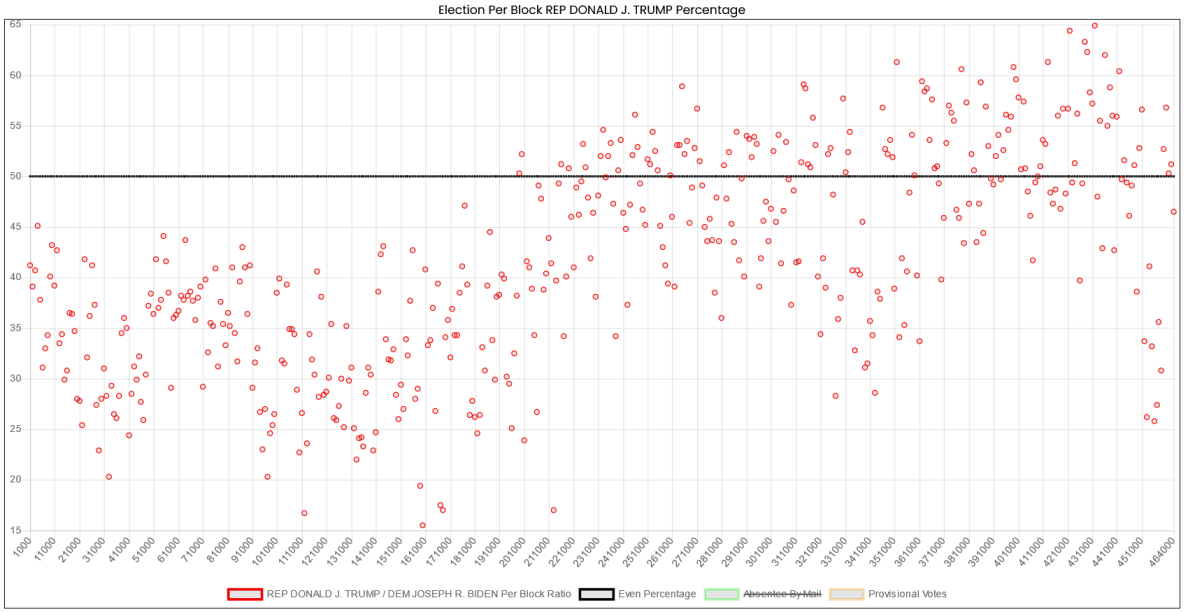
  The New Jersey official results report 497,838 ballots cast for president, and the Cast Vote Record reports 497,838. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 40.5% to Joseph Biden's 56.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.19 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. There is a dip at the very end.

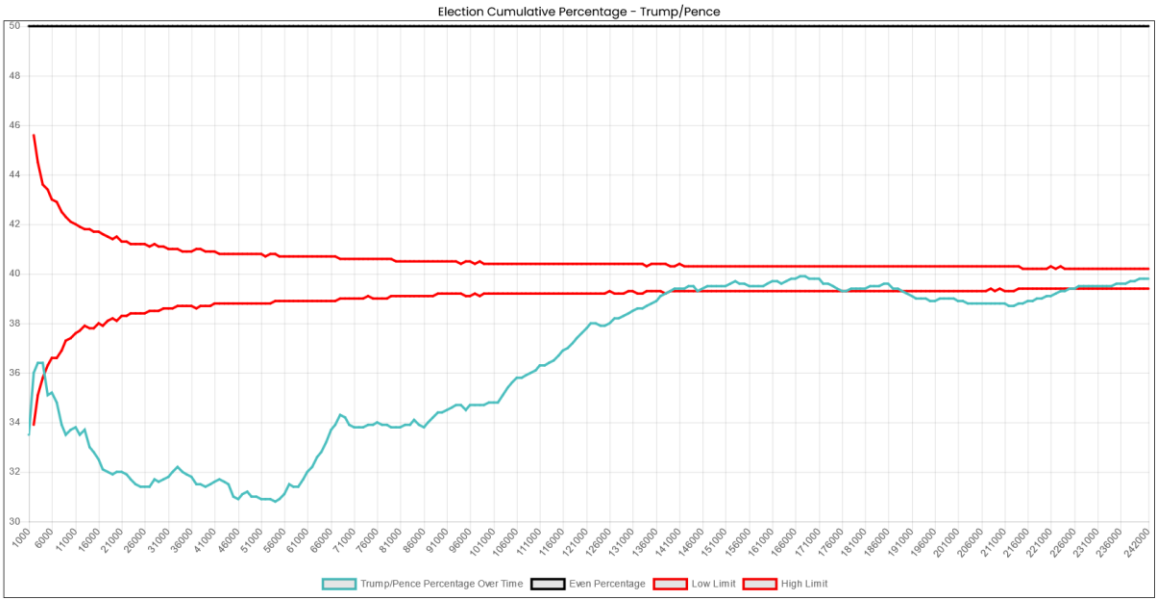


- **Burlington County**
  Vendor: Dominion Voting Systems

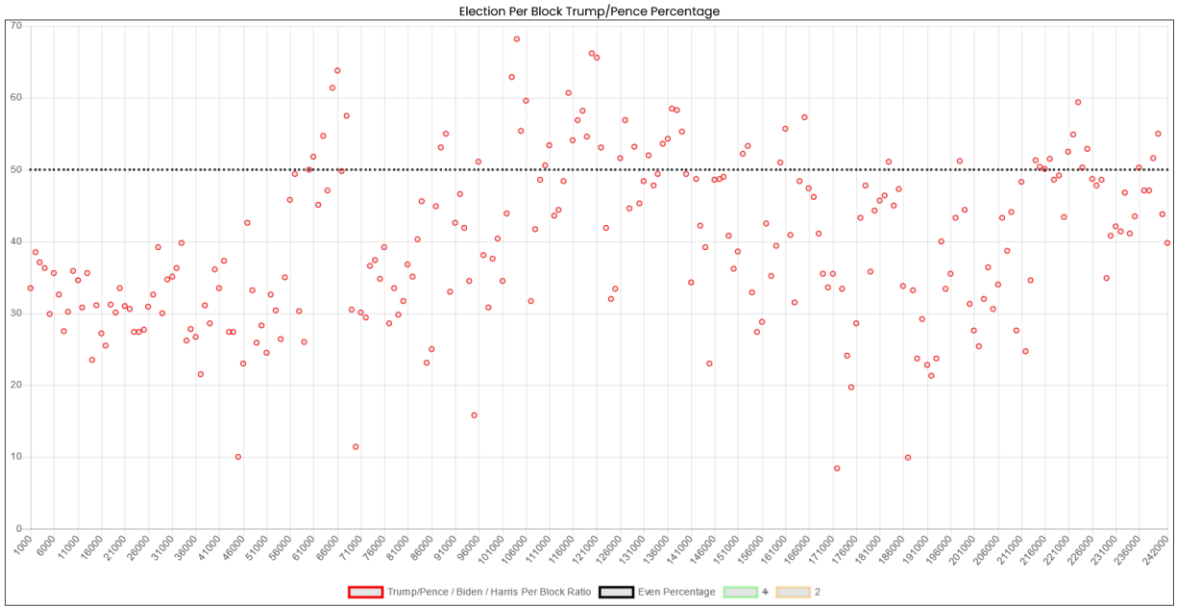
  The New Jersey official results report 262,650 ballots cast for president, and the Cast Vote Record reports 261,238. Thus, **1,412** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 39.4% to Joseph Biden's 58.8%.

  Plotting the mail-in votes over time shows a markedly different but still unnatural pattern. Instead of rising to the end of counting, the rise continues to about halfway and stabilizes within the cone – until a sudden dip and rise near the end. If the back half rise was applied to just the portion of the voting up to the end of the upward rise, it calculates as 1.26.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes shows a chaotic pattern, but one which still shows a rise up to about the halfway point.



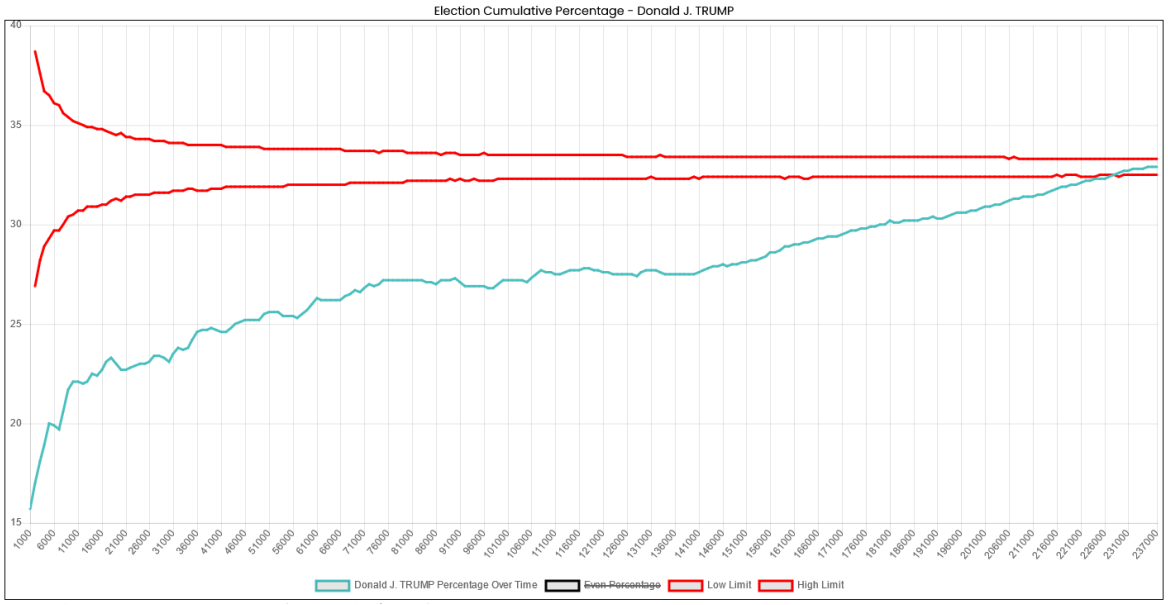
- **<u>Camden County</u>**

  Vendor: Dominion Voting Systems

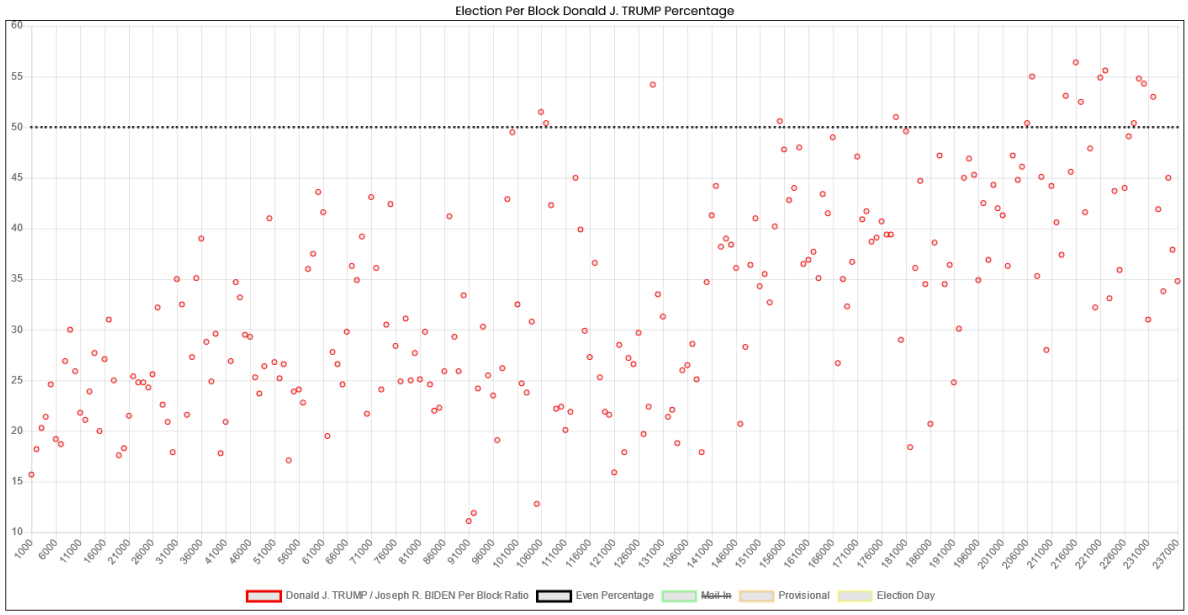
  The New Jersey official results report 265,599 ballots cast for president, and the Cast Vote Record reports 248,873. Thus, **16,726** ballots were redacted, which is very high**.**

  According to the Cast Vote Record, President Trump lost this county with 32.5% to Joseph Biden's 65.9%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.18 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

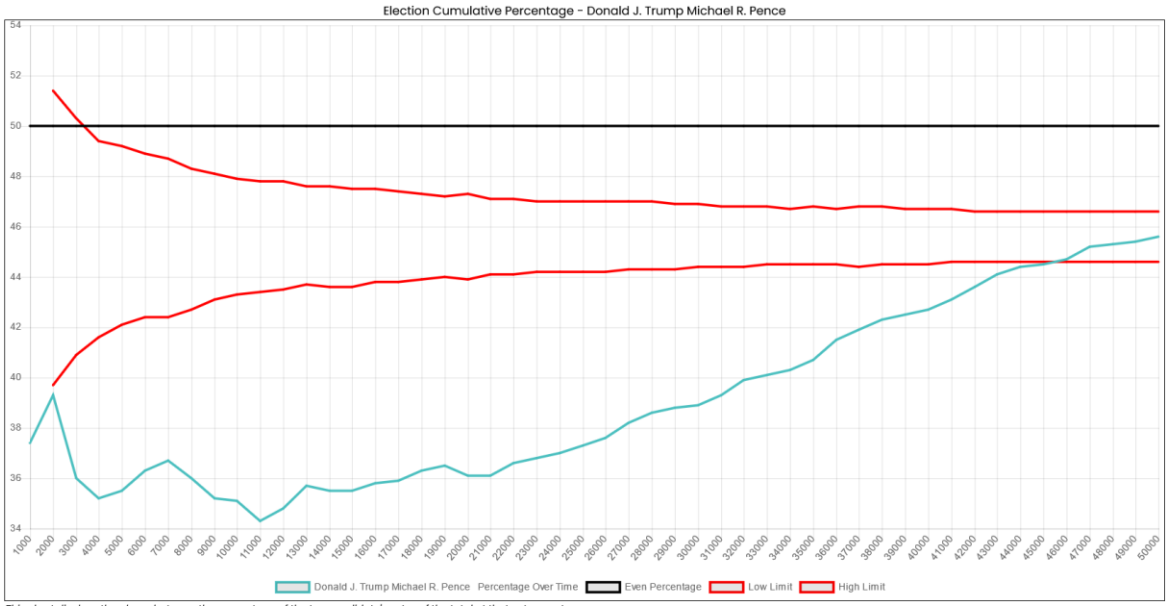


- **<u>Cumberland County</u>**
  Vendor: Dominion Voting Systems

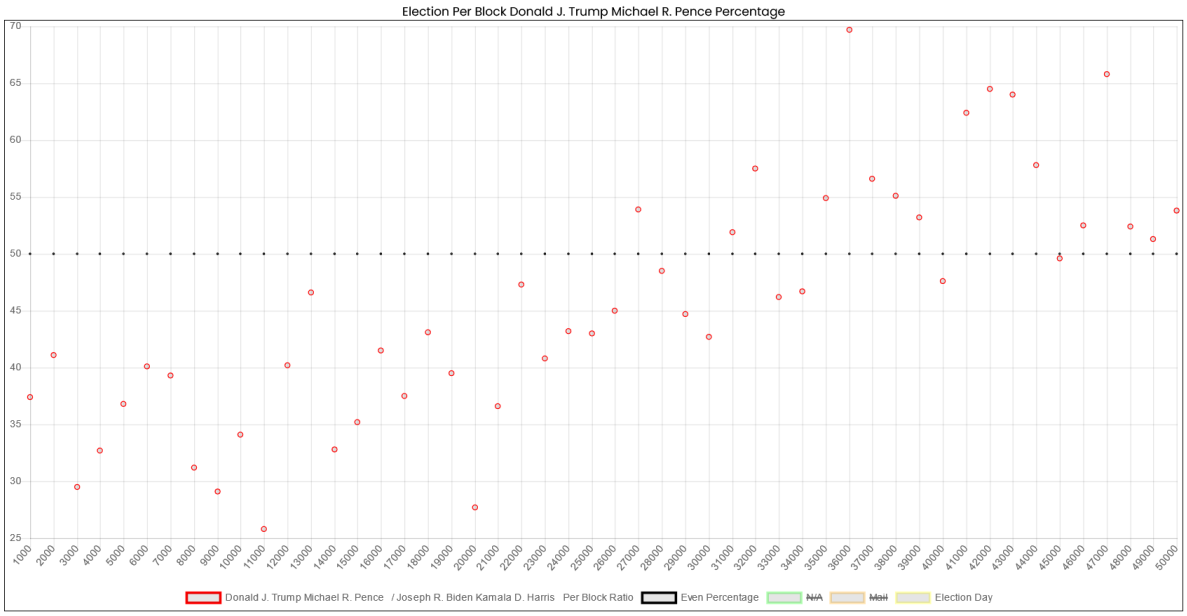
  The New Jersey official results report 62,575 ballots cast for president, and the Cast Vote Record reports 62,066. Thus, **509** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 46.3% to Joseph Biden's 52.3%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.22 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

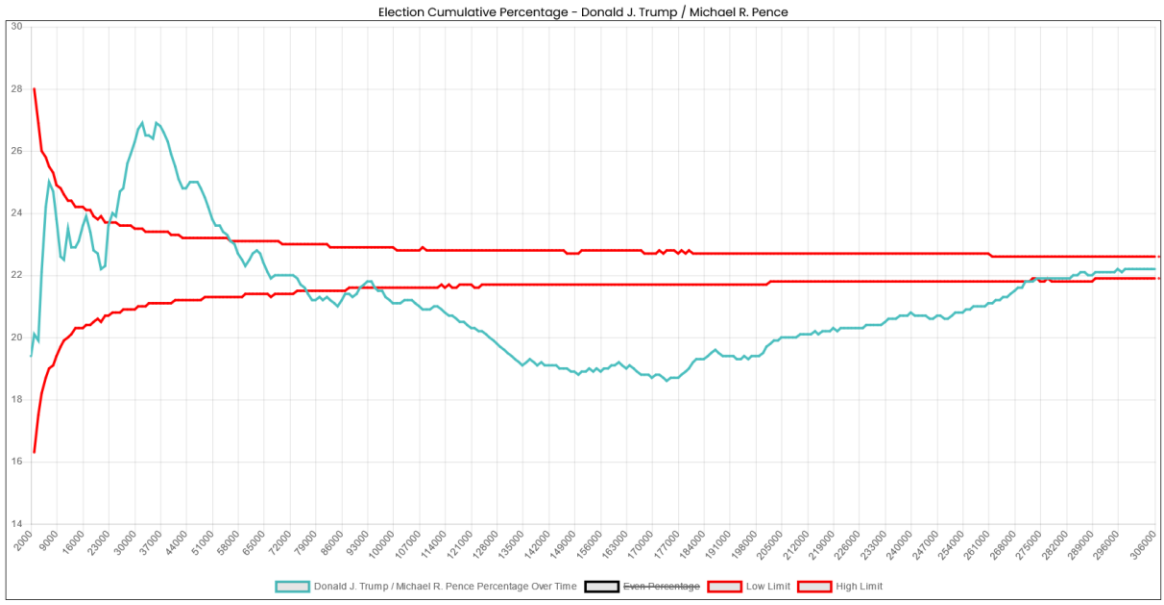


- **<u>Essex County</u>**
  Vendor: Dominion Voting Systems

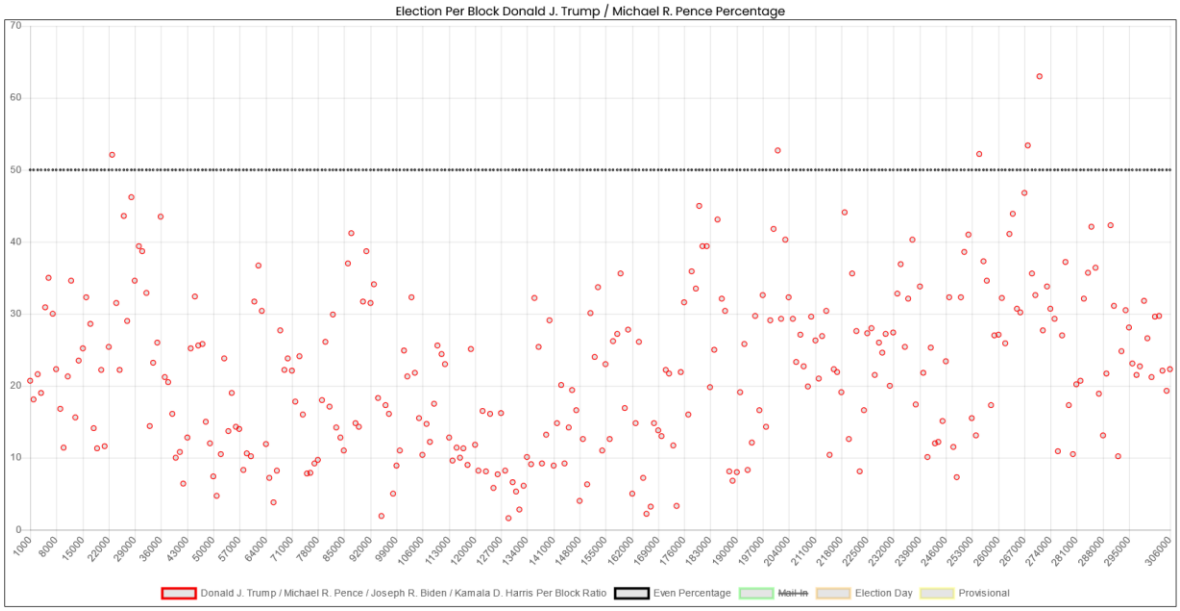
  The New Jersey official results report 345,311 ballots cast for president, and the Cast Vote Record reports 346,186. **Thus, the Essex County Cast Vote Record contains 875 more ballots than the official reports.**

  According to the Cast Vote Record, President Trump lost this county with 21.8% to Joseph Biden's 77.1%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.17 in favor of President Trump. This county has an unusual advantage for President Trump early, then dives down and shows the typical Mesa Pattern thereafter.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes does not show as marked a pattern as other counties, but it does trend towards blocks favorable to President Trump.

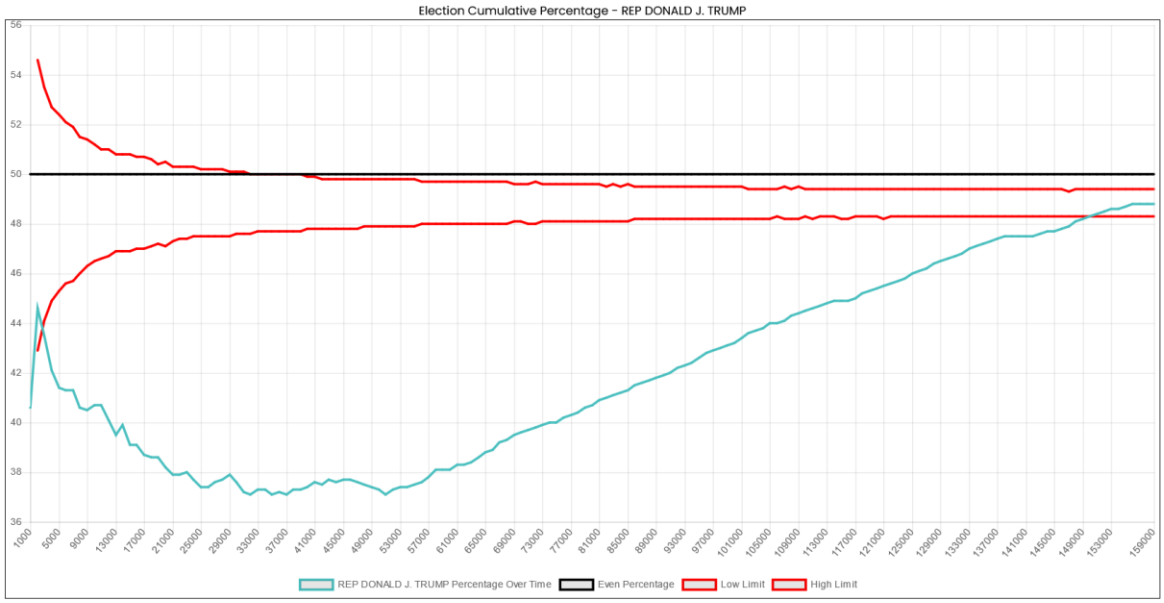


- **<u>Gloucester County</u>**
  Vendor: Election Systems & Software

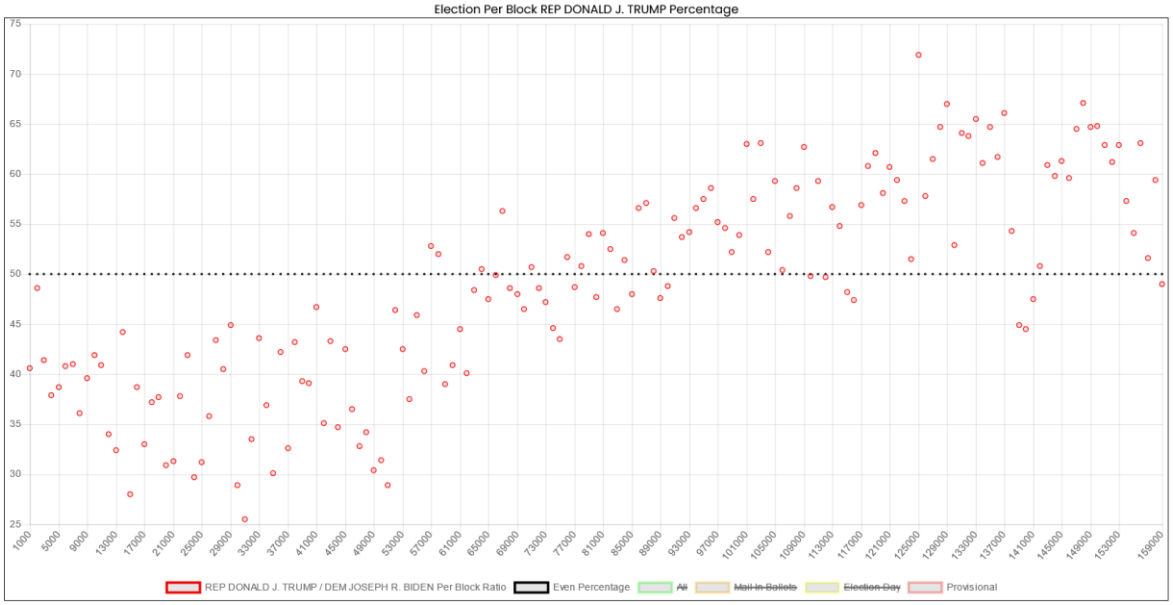
  The New Jersey official results report 173,453 ballots cast for president, and the Cast Vote Record reports 174,178. **Thus, the Gloucester County Cast Vote Record contains 725 more ballots than the official reports.**

  According to the Cast Vote Record, President Trump lost this county with 45.7% to Joseph Biden's 47.8%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.20 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

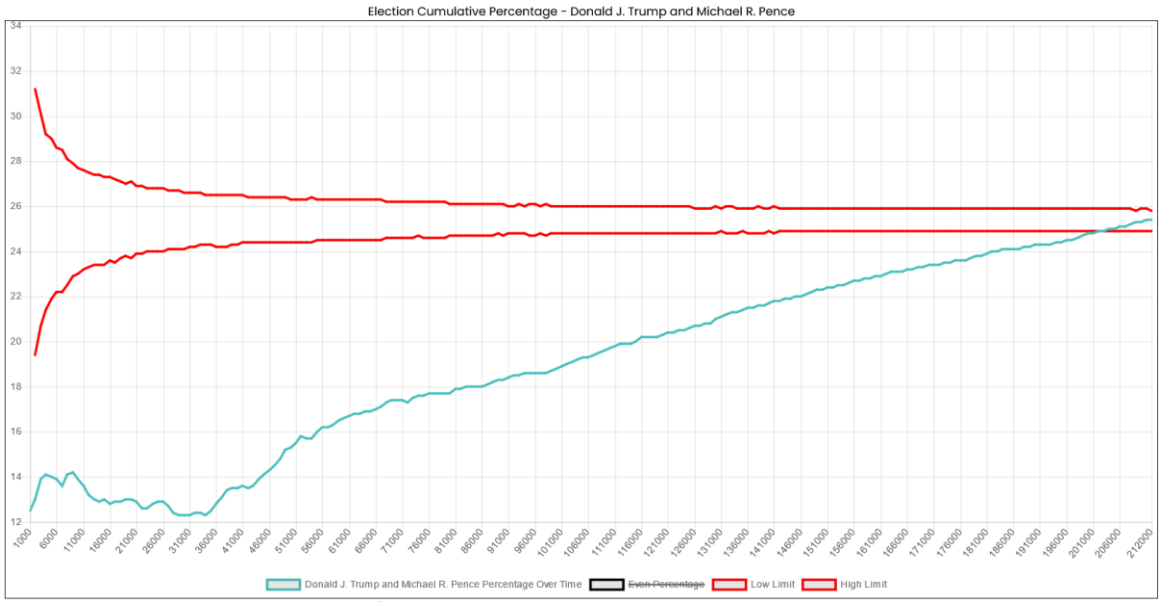


- **Hudson County**
  Vendor: Dominion Voting System

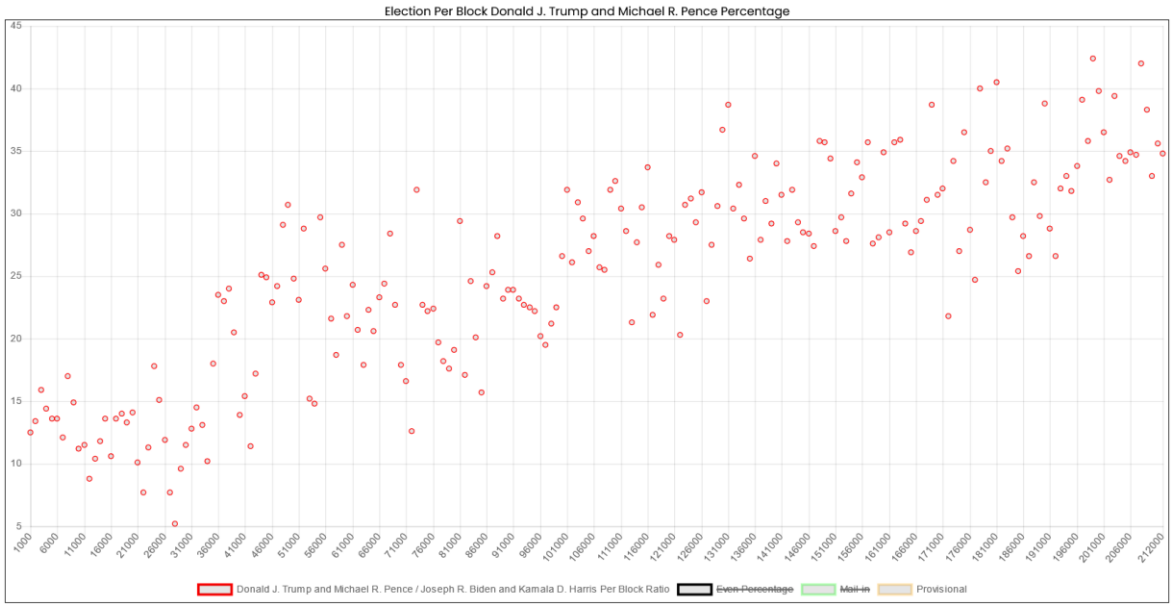
  The New Jersey official results report 250,458 ballots cast for president, and the Cast Vote Record reports 249,972. Thus, 486 ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 26.2% to Joseph Biden's 72.5%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.31 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds, although it is not as marked as other counties.

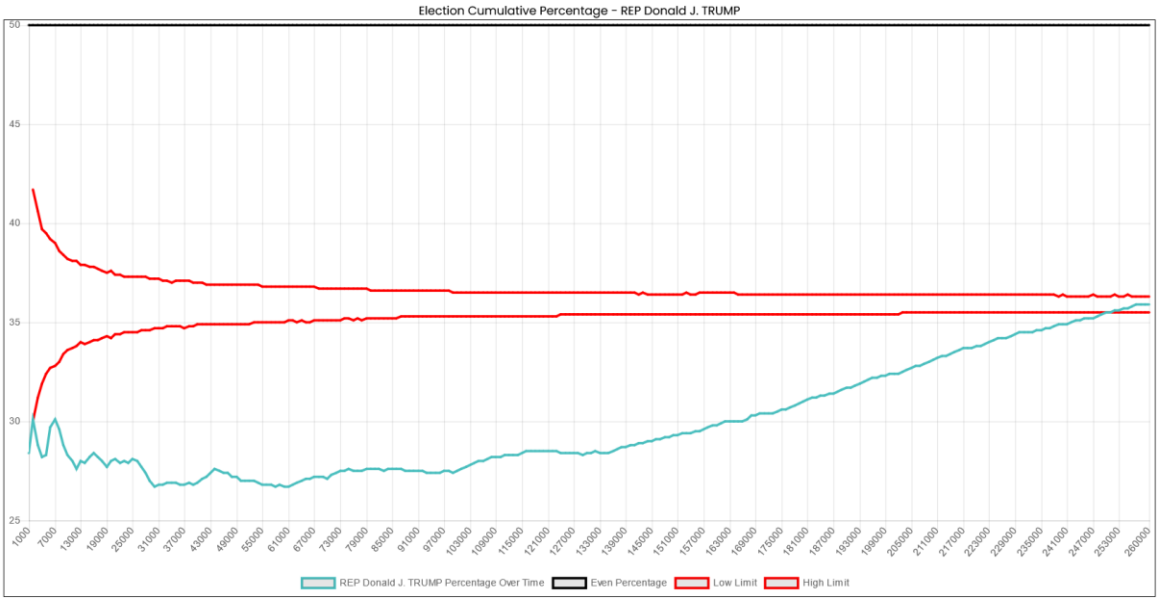


- **<u>Middlesex County</u>**
  Vendor: Election Systems & Software

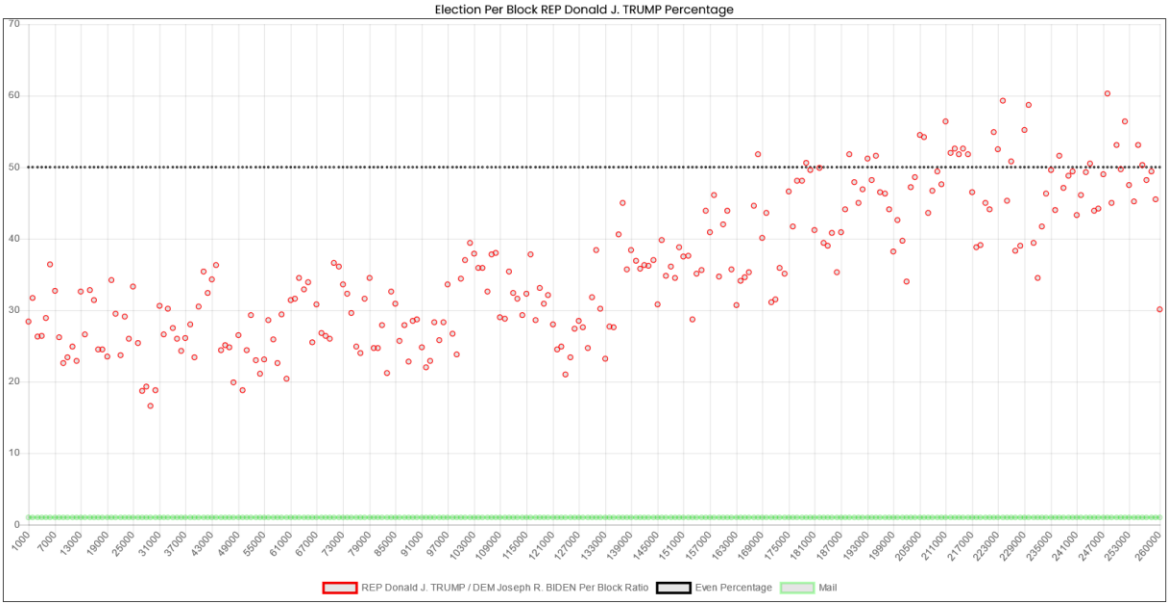
  The New Jersey official results report 375,682 ballots cast for president, and the Cast Vote Record reports 267,499. **Thus, 108,183 ballots are missing from the Cast Vote Record. This should be considered when utilizing the report on this county, and calls into question the official results**.

  According to the Cast Vote Record, President Trump lost this county with 35% to Joseph Biden's 62.4% (using the available records).

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.27 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

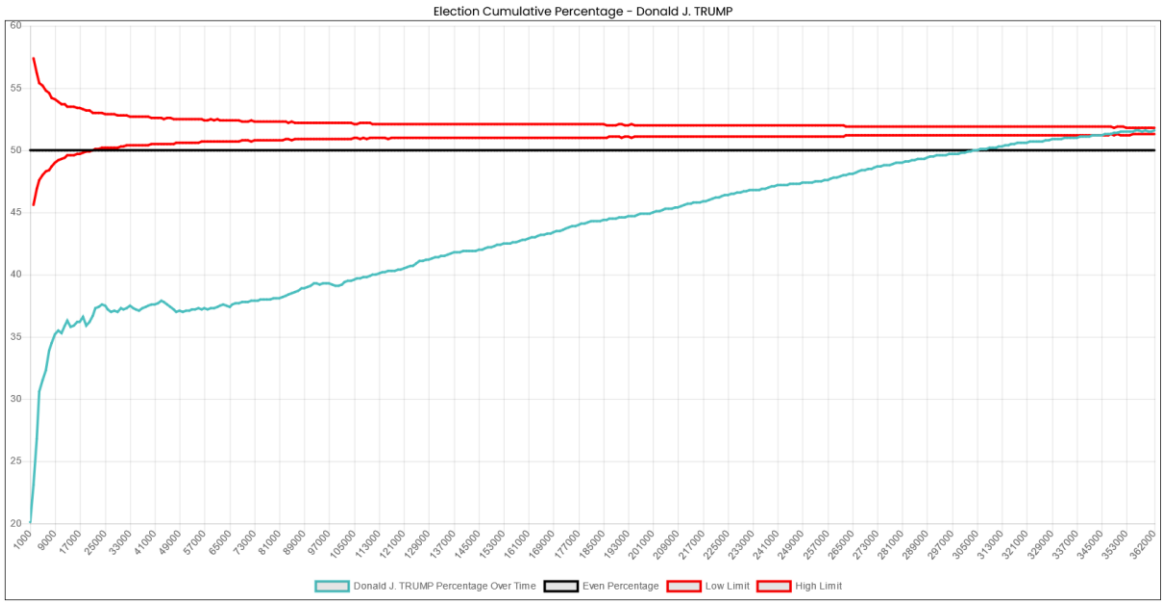


- **Monmouth County**
  Vendor: Dominion Voting Systems / Sequoia

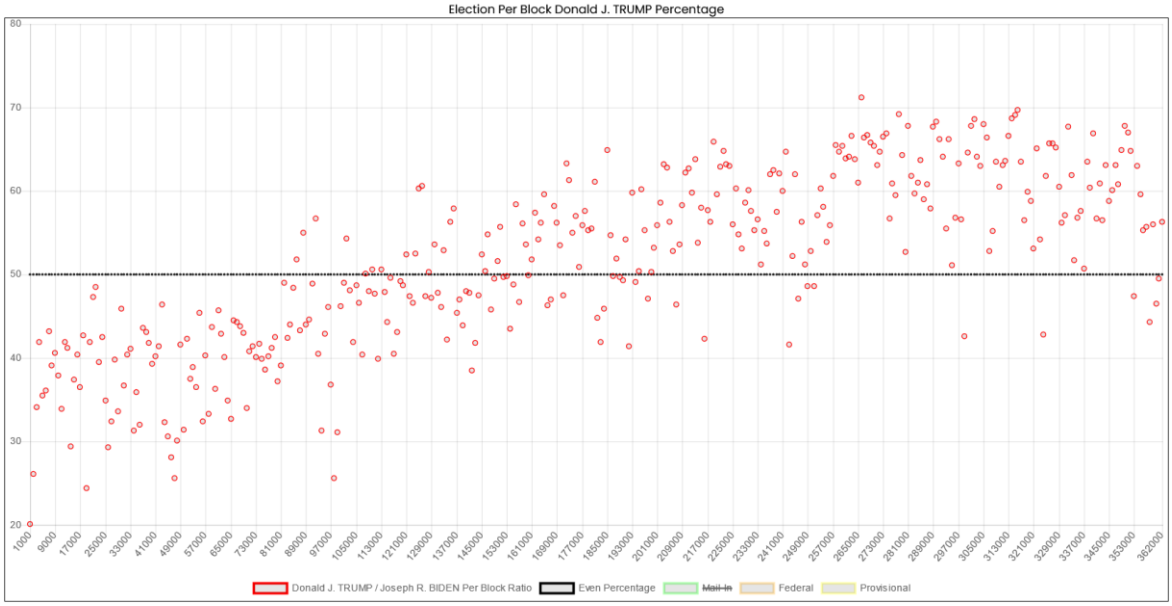
  The New Jersey official results report 378,390 ballots cast for president, and the Cast Vote Record reports 378,222. Thus, **168** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 50.7% to Joseph Biden's 47.9%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the slight downward dip at the very end.

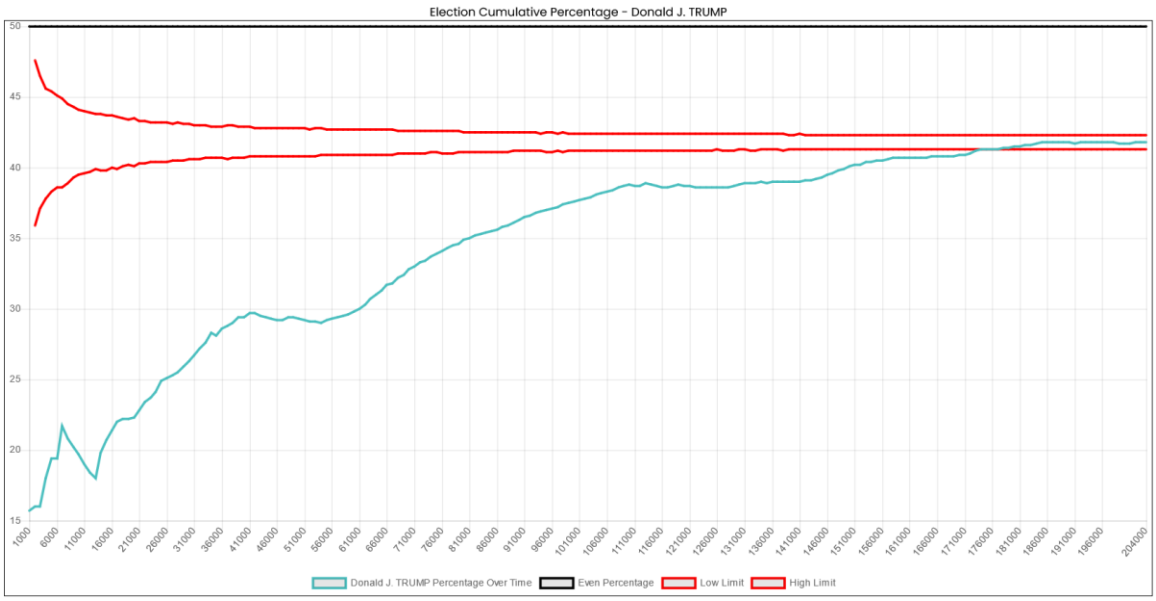


- **Passaic County**
  Vendor: Dominion Voting Systems / Sequoia

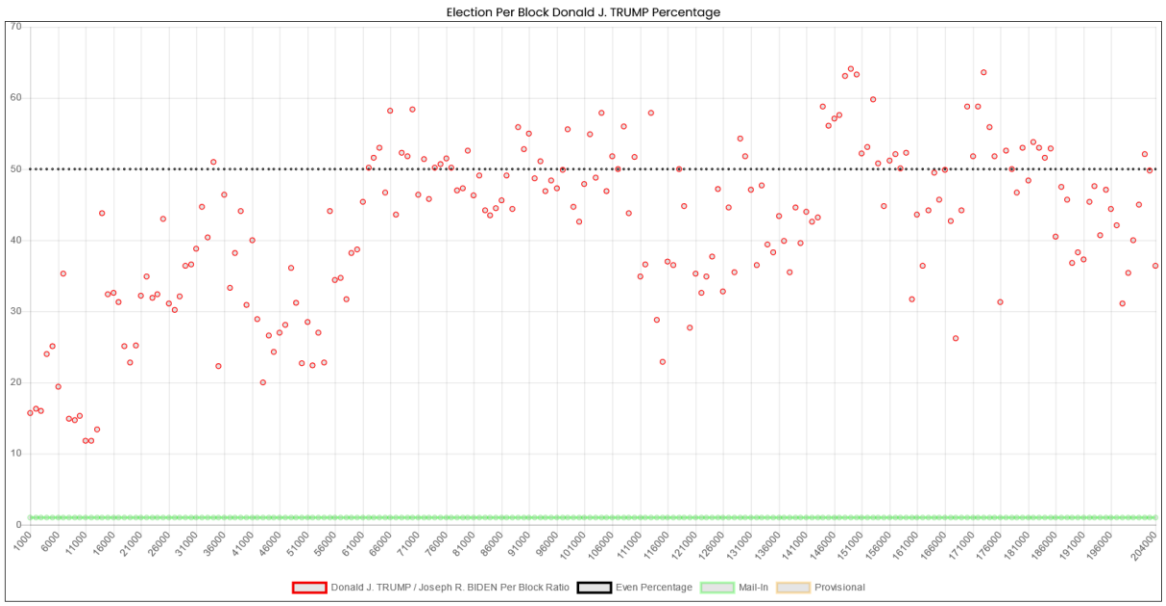
  The New Jersey official results report 224,330 ballots cast for president, and the Cast Vote Record reports 223,161. Thus, **1,169** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 44.1% to Joseph Biden's 57.6%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.11 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds, although it retains more Biden-favoring blocks than other counties.

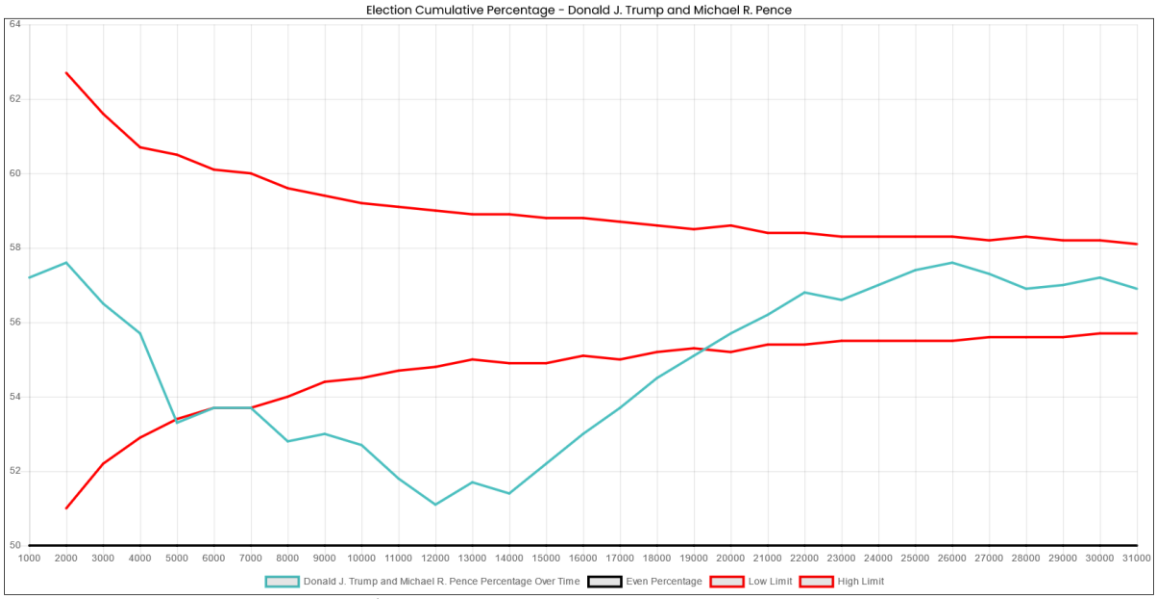


- **Salem County**
  Vendor: Dominion Voting Systems

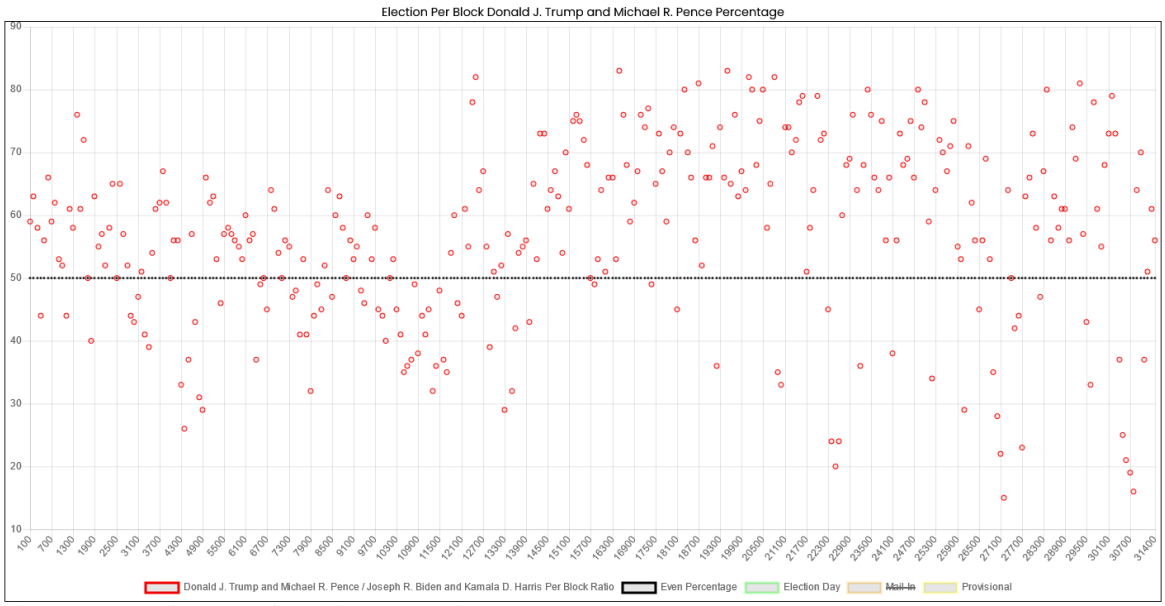
  The New Jersey official results report 34,042 ballots cast for president, and the Cast Vote Record reports 34,011. Thus, **31** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 55.3% to Joseph Biden's 42.8%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.07 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows the rise as the counting proceeds, but there are more Biden-favorable blocks in the last section than other counties.

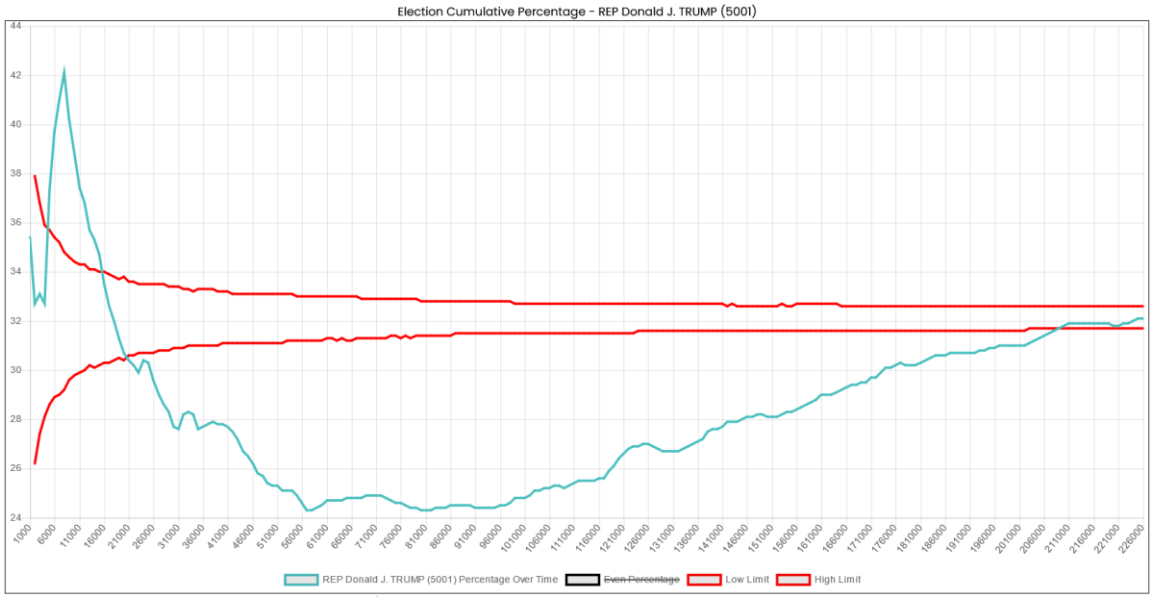


- **<u>Union County</u>**
  Vendor: Election Systems & Software

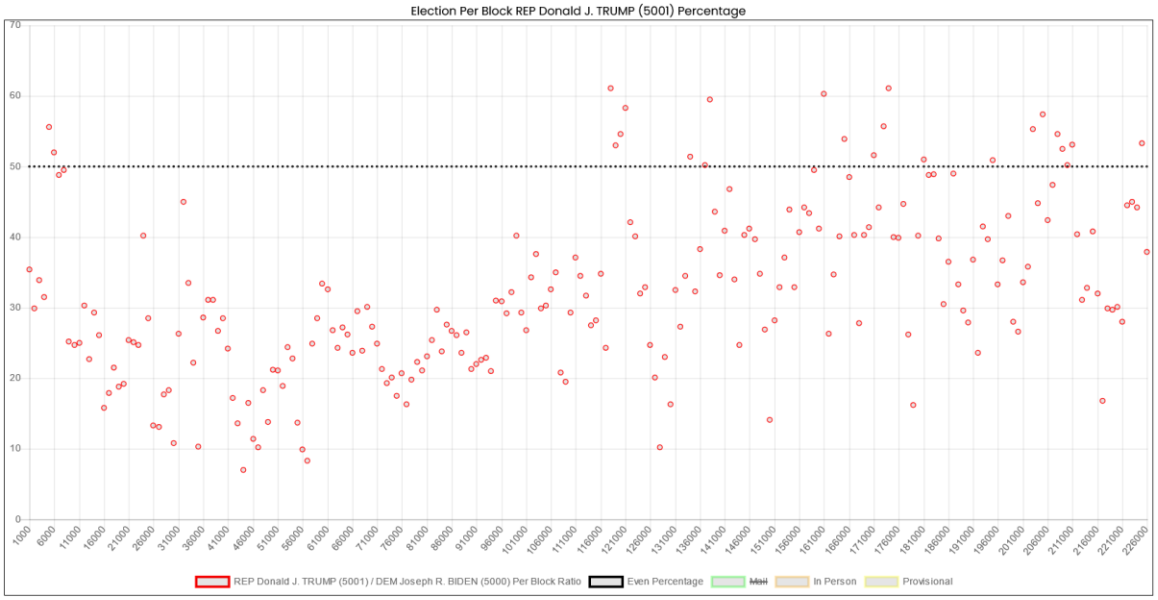
  The New Jersey official results report 254,142 ballots cast for president, and the Cast Vote Record reports 247,216. Thus, **6,926** ballots were redacted. **This is high.**

  According to the Cast Vote Record, President Trump lost this county with 31.0% to Joseph Biden's 65.8%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.26 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the rise as the counting proceeds.



COUNTY SUMMARY ANALYSIS

The following shows each county for which a Cast Vote Record was received, and a score based upon three criteria.

16. The County shows the visual aspect of the Mesa Pattern (or its reverse) – 1 point.
17. The County has a back half rise (or fall) greater than or equal to 1.1 (rounded) – 1 point.
18. The percentage plot of President Trump's votes exceeds the range of possible values indicated by the red cone – 1 point.

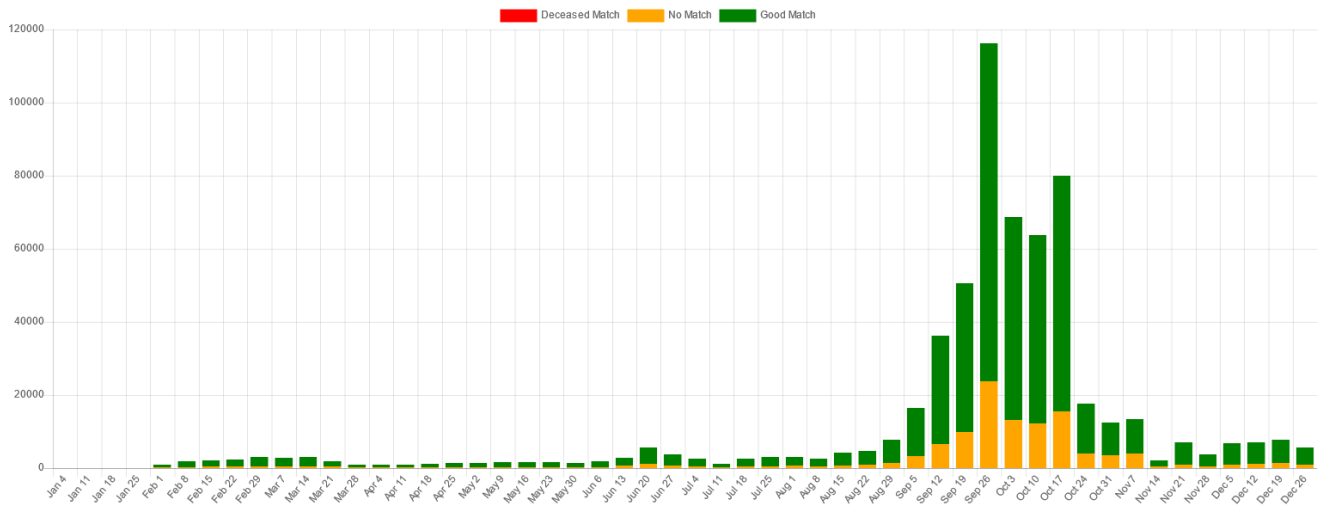
While any score above zero indicates machine manipulation, the actual score may correlate to the severity of the manipulation.

County	Vendor	Manipulation Score
Bergen	Election Systems & Software	3
Burlington	Dominion Voting Systems	2
Camden	Dominion Voting Systems	3
Cumberland	Dominion Voting Systems	3
Essex	Dominion Voting Systems	3
Gloucester	Election Systems & Software	3
Hudson	Dominion Voting Systems	3
Middlesex	Election Systems & Software	3
Monmouth	Dominion Voting Systems	3
Passaic	Dominion Voting Systems	3
Salem	Dominion Voting Systems	3
Union	Election Systems & Software	3

STATE HAVV LOOKUP ANALYSIS

New Jersey's HAVV lookup statistics (as provided by the Social Security Administration) give the appearance that this program is being abused to register unqualified voters. A total of 592,634 queries were made by the state during 2020, and 116,843 of them were rejected as "no match". 1,796 of the queries were rejected as "Single Match Deceased". The HAVV queries peaked on the week of September 26, with 116,165 queries being made that week alone, with 23,731 (20.4%) being rejected as "no match". Lookups can and do lag behind the actual date of application.

Remembering that this type of voter qualification is intended to be used for those without proper identification, all of these numbers seem extremely high, and should be further investigated.



ELECTION NIGHT RESULT ANOMALIES

This table lists New Jersey counties which experienced votes removed in election night reporting. The data is taken from the Edison/New York Times election night reporting results from the 2020 General Election.

There are three different vote totals reported for each candidate in the election night reporting, the total votes, the election day votes, and the absentee votes. If there are votes removed from the election day or absentee and there is not a corresponding drop in total votes, that means that vote counts were shifted from election day to absentee or vice versa.

County	Timestamp	Candidate	Number of Votes Removed	Type of Votes Removed
Bergen	11/3/2020 10:51:30 PM	Trump	80,468	Total Votes
Bergen	11/3/2020 10:51:30 PM	Trump	80,468	Election Day
Bergen	11/4/2020 6:57:48 AM	Trump	144,234	Election Day
Bergen	11/4/2020 6:57:48 AM	Biden	224,702	Election Day
Burlington	11/5/2020 4:37:23 PM	Trump	3,817	Election Day
Burlington	11/5/2020 4:37:23 PM	Biden	4,525	Election Day
Burlington	11/6/2020 10:35:56 AM	Trump	9,359	Election Day
Burlington	11/6/2020 10:35:56 AM	Biden	7,058	Election Day
Passaic	11/4/2020 3:29:32 AM	Trump	42,806	Election Day
Passaic	11/4/2020 3:29:32 AM	Biden	67,604	Election Day
Sussex	11/9/2020 11:41:11 AM	Trump	22,950	Election Day
Sussex	11/9/2020 11:41:11 AM	Biden	16,134	Election Day
Warren	11/6/2020 1:59:15 PM	Trump	20,991	Election Day
Warren	11/6/2020 1:59:15 PM	Biden	17,750	Election Day
Warren	11/10/2020 12:46:45 PM	Trump	4,316	Election Day
Warren	11/10/2020 12:46:45 PM	Biden	2,227	Election Day

CONSECUTIVE VOTES FOR CANDIDATES WITH LESS THAN 1% PROBABILITY

The mail-in votes show the following number of Consecutive Votes For the indicated candidate, and the likelihood of that many consecutive votes occurring given the final percentage breakdown of the votes. The existence of so many of these very improbable runs is an additional indication of the algorithm used to affect the vote results and would be expected given the smoothing sorting of votes indicated by the Mesa Pattern.

Counties not listed did not have any vote runs which fell below the 1% probability or exhibited precinct level sorting.

Bergen

Consecutive votes for President Trump		
Run	#	
18	14	Very Unlikely (0.1-1%)
19	6	Very Unlikely (0.1-1%)
20	2	Very Unlikely (0.1-1%)
21	5	Extremely Unlikely (<0.1%)
22	5	Extremely Unlikely (<0.1%)
23	2	Extremely Unlikely (<0.1%)
26	3	Extremely Unlikely (<0.1%)
28	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
28	17	Very Unlikely (0.1-1%)
29	19	Very Unlikely (0.1-1%)
30	11	Very Unlikely (0.1-1%)
31	6	Very Unlikely (0.1-1%)
32	8	Very Unlikely (0.1-1%)
33	13	Extremely Unlikely (<0.1%)
34	6	Extremely Unlikely (<0.1%)
35	4	Extremely Unlikely (<0.1%)

34	2	Extremely Unlikely (<0.1%)
40	2	Extremely Unlikely (<0.1%)
43	2	Extremely Unlikely (<0.1%)

36	7	Extremely Unlikely (<0.1%)
37	2	Extremely Unlikely (<0.1%)
38	4	Extremely Unlikely (<0.1%)
39	5	Extremely Unlikely (<0.1%)
40	2	Extremely Unlikely (<0.1%)
41	4	Extremely Unlikely (<0.1%)
44	3	Extremely Unlikely (<0.1%)
47	2	Extremely Unlikely (<0.1%)
49	2	Extremely Unlikely (<0.1%)
50	2	Extremely Unlikely (<0.1%)
54	2	Extremely Unlikely (<0.1%)
58	2	Extremely Unlikely (<0.1%)
63	3	Extremely Unlikely (<0.1%)
67	2	Extremely Unlikely (<0.1%)
77	2	Extremely Unlikely (<0.1%)

Burlington

Consecutive votes for President Trump		
Run	**#**	
16	10	Very Unlikely (0.1-1%)
17	11	Very Unlikely (0.1-1%)
18	3	Very Unlikely (0.1-1%)
19	7	Extremely Unlikely (<0.1%)
20	3	Extremely Unlikely (<0.1%)
21	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
29	15	Very Unlikely (0.1-1%)
30	10	Very Unlikely (0.1-1%)
31	11	Very Unlikely (0.1-1%)
32	6	Very Unlikely (0.1-1%)
33	6	Very Unlikely (0.1-1%)
34	10	Extremely Unlikely (<0.1%)
35	3	Very Unlikely (0.1-1%)
36	5	Extremely Unlikely (<0.1%)
38	4	Extremely Unlikely (<0.1%)
39	7	Extremely Unlikely (<0.1%)
40	3	Extremely Unlikely (<0.1%)
41	3	Extremely Unlikely (<0.1%)
42	4	Extremely Unlikely (<0.1%)
43	4	Extremely Unlikely (<0.1%)
44	3	Extremely Unlikely (<0.1%)
45	2	Extremely Unlikely (<0.1%)
46	2	Extremely Unlikely (<0.1%)
48	2	Extremely Unlikely (<0.1%)
49	3	Extremely Unlikely (<0.1%)
50	3	Extremely Unlikely (<0.1%)
51	2	Extremely Unlikely (<0.1%)
52	2	Extremely Unlikely (<0.1%)
53	2	Extremely Unlikely (<0.1%)
54	2	Extremely Unlikely (<0.1%)
56	2	Extremely Unlikely (<0.1%)
57	2	Extremely Unlikely (<0.1%)
60	3	Extremely Unlikely (<0.1%)
61	2	Extremely Unlikely (<0.1%)

63	2	Extremely Unlikely (<0.1%)
70	2	Extremely Unlikely (<0.1%)

Camden

Consecutive votes for President Trump		
Run	#	
14	5	Very Unlikely (0.1-1%)
15	3	Very Unlikely (0.1-1%)
16	5	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
38	10	Very Unlikely (0.1-1%)
40	9	Very Unlikely (0.1-1%)
41	9	Very Unlikely (0.1-1%)
42	4	Very Unlikely (0.1-1%)
43	6	Very Unlikely (0.1-1%)
44	4	Very Unlikely (0.1-1%)
45	4	Very Unlikely (0.1-1%)
46	3	Very Unlikely (0.1-1%)
47	3	Extremely Unlikely (<0.1%)
48	5	Extremely Unlikely (<0.1%)
49	4	Extremely Unlikely (<0.1%)
50	5	Extremely Unlikely (<0.1%)
51	3	Extremely Unlikely (<0.1%)
52	3	Extremely Unlikely (<0.1%)
54	3	Extremely Unlikely (<0.1%)
58	2	Extremely Unlikely (<0.1%)
59	2	Extremely Unlikely (<0.1%)
68	3	Extremely Unlikely (<0.1%)
71	3	Extremely Unlikely (<0.1%)
73	2	Extremely Unlikely (<0.1%)
76	2	Extremely Unlikely (<0.1%)
82	2	Extremely Unlikely (<0.1%)

Cumberland

Consecutive votes for President Trump		
Run	#	
19	3	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	#	
24	3	Very Unlikely (0.1-1%)

Essex

Consecutive votes for President Trump		
Run	#	
11	33	Extremely Unlikely (<0.1%)
12	20	Extremely Unlikely (<0.1%)
13	17	Extremely Unlikely (<0.1%)
14	11	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
60	18	Very Unlikely (0.1-1%)
61	17	Very Unlikely (0.1-1%)
62	10	Very Unlikely (0.1-1%)
63	11	Very Unlikely (0.1-1%)

15	10	Extremely Unlikely (<0.1%)
18	4	Extremely Unlikely (<0.1%)
22	2	Extremely Unlikely (<0.1%)

64	12	Very Unlikely (0.1-1%)
65	8	Very Unlikely (0.1-1%)
66	11	Very Unlikely (0.1-1%)
67	3	Very Unlikely (0.1-1%)
68	10	Very Unlikely (0.1-1%)
69	5	Very Unlikely (0.1-1%)
70	9	Extremely Unlikely (<0.1%)
71	7	Extremely Unlikely (<0.1%)
72	7	Extremely Unlikely (<0.1%)
73	10	Extremely Unlikely (<0.1%)
74	7	Extremely Unlikely (<0.1%)
75	7	Extremely Unlikely (<0.1%)
76	9	Extremely Unlikely (<0.1%)
77	4	Extremely Unlikely (<0.1%)
78	4	Extremely Unlikely (<0.1%)
79	4	Extremely Unlikely (<0.1%)
80	4	Extremely Unlikely (<0.1%)
81	3	Extremely Unlikely (<0.1%)
82	3	Extremely Unlikely (<0.1%)
83	3	Extremely Unlikely (<0.1%)
84	3	Extremely Unlikely (<0.1%)
85	7	Extremely Unlikely (<0.1%)
86	4	Extremely Unlikely (<0.1%)
87	4	Extremely Unlikely (<0.1%)
88	7	Extremely Unlikely (<0.1%)
89	4	Extremely Unlikely (<0.1%)
90	4	Extremely Unlikely (<0.1%)
91	5	Extremely Unlikely (<0.1%)
93	7	Extremely Unlikely (<0.1%)
94	9	Extremely Unlikely (<0.1%)
95	2	Extremely Unlikely (<0.1%)
96	4	Extremely Unlikely (<0.1%)
97	6	Extremely Unlikely (<0.1%)
98	5	Extremely Unlikely (<0.1%)
99	2	Extremely Unlikely (<0.1%)
100	4	Extremely Unlikely (<0.1%)
101	3	Extremely Unlikely (<0.1%)
103	5	Extremely Unlikely (<0.1%)
106	2	Extremely Unlikely (<0.1%)
108	3	Extremely Unlikely (<0.1%)
109	3	Extremely Unlikely (<0.1%)
112	3	Extremely Unlikely (<0.1%)
117	4	Extremely Unlikely (<0.1%)
125	3	Extremely Unlikely (<0.1%)
131	2	Extremely Unlikely (<0.1%)
132	2	Extremely Unlikely (<0.1%)
135	3	Extremely Unlikely (<0.1%)
138	2	Extremely Unlikely (<0.1%)
139	3	Extremely Unlikely (<0.1%)

142	2	Extremely Unlikely (<0.1%)
146	2	Extremely Unlikely (<0.1%)
158	2	Extremely Unlikely (<0.1%)

Gloucester

Consecutive votes for President Trump		
Run	#	
23	2	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	#	
24	2	Very Unlikely (0.1-1%)
25	3	Very Unlikely (0.1-1%)
26	3	Very Unlikely (0.1-1%)
27	2	Very Unlikely (0.1-1%)

Hudson

Consecutive Votes for Joseph Biden		
Run	#	
53	4	Very Unlikely (0.1-1%)
54	5	Very Unlikely (0.1-1%)
56	2	Very Unlikely (0.1-1%)
57	3	Very Unlikely (0.1-1%)
58	3	Very Unlikely (0.1-1%)
59	2	Very Unlikely (0.1-1%)
60	4	Very Unlikely (0.1-1%)
61	2	Very Unlikely (0.1-1%)
62	3	Extremely Unlikely (<0.1%)
63	3	Extremely Unlikely (<0.1%)
64	2	Extremely Unlikely (<0.1%)
66	2	Extremely Unlikely (<0.1%)
68	3	Extremely Unlikely (<0.1%)
89	3	Extremely Unlikely (<0.1%)

Middlesex

Consecutive votes for President Trump		
Run	#	
15	6	Very Unlikely (0.1-1%)
16	6	Very Unlikely (0.1-1%)
17	8	Extremely Unlikely (<0.1%)
18	5	Extremely Unlikely (<0.1%)
19	5	Extremely Unlikely (<0.1%)
20	8	Extremely Unlikely (<0.1%)
21	6	Extremely Unlikely (<0.1%)
22	3	Extremely Unlikely (<0.1%)
23	5	Extremely Unlikely (<0.1%)
24	5	Extremely Unlikely (<0.1%)
25	3	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
34	9	Very Unlikely (0.1-1%)
35	5	Very Unlikely (0.1-1%)
36	9	Very Unlikely (0.1-1%)
37	5	Very Unlikely (0.1-1%)
38	5	Very Unlikely (0.1-1%)
39	6	Very Unlikely (0.1-1%)
40	2	Very Unlikely (0.1-1%)
41	6	Extremely Unlikely (<0.1%)
42	2	Extremely Unlikely (<0.1%)
43	3	Extremely Unlikely (<0.1%)
44	4	Extremely Unlikely (<0.1%)

26	5	Extremely Unlikely (<0.1%)
28	4	Extremely Unlikely (<0.1%)
29	2	Extremely Unlikely (<0.1%)
30	2	Extremely Unlikely (<0.1%)
31	3	Extremely Unlikely (<0.1%)
32	3	Extremely Unlikely (<0.1%)
34	2	Extremely Unlikely (<0.1%)
35	3	Extremely Unlikely (<0.1%)
36	4	Extremely Unlikely (<0.1%)
40	4	Extremely Unlikely (<0.1%)
41	3	Extremely Unlikely (<0.1%)
42	2	Extremely Unlikely (<0.1%)
49	2	Extremely Unlikely (<0.1%)
50	2	Extremely Unlikely (<0.1%)
54	2	Extremely Unlikely (<0.1%)
55	2	Extremely Unlikely (<0.1%)

45	2	Extremely Unlikely (<0.1%)
46	2	Extremely Unlikely (<0.1%)
47	3	Extremely Unlikely (<0.1%)
48	4	Extremely Unlikely (<0.1%)
49	4	Extremely Unlikely (<0.1%)
50	6	Extremely Unlikely (<0.1%)
52	5	Extremely Unlikely (<0.1%)
53	3	Extremely Unlikely (<0.1%)
55	7	Extremely Unlikely (<0.1%)
56	3	Extremely Unlikely (<0.1%)
58	2	Extremely Unlikely (<0.1%)
61	3	Extremely Unlikely (<0.1%)
62	2	Extremely Unlikely (<0.1%)
68	2	Extremely Unlikely (<0.1%)
71	2	Extremely Unlikely (<0.1%)
74	2	Extremely Unlikely (<0.1%)
75	2	Extremely Unlikely (<0.1%)
76	2	Extremely Unlikely (<0.1%)
84	2	Extremely Unlikely (<0.1%)
85	2	Extremely Unlikely (<0.1%)
94	2	Extremely Unlikely (<0.1%)

Monmouth

Consecutive votes for President Trump		
Run	**#**	
24	5	Very Unlikely (0.1-1%)
26	3	Very Unlikely (0.1-1%)
27	2	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
23	11	Very Unlikely (0.1-1%)
24	4	Very Unlikely (0.1-1%)
25	8	Extremely Unlikely (<0.1%)
26	6	Extremely Unlikely (<0.1%)
27	5	Extremely Unlikely (<0.1%)
28	5	Extremely Unlikely (<0.1%)
29	3	Extremely Unlikely (<0.1%)
31	2	Extremely Unlikely (<0.1%)
32	2	Extremely Unlikely (<0.1%)
34	3	Extremely Unlikely (<0.1%)
35	2	Extremely Unlikely (<0.1%)
38	2	Extremely Unlikely (<0.1%)
39	2	Extremely Unlikely (<0.1%)

Passaic

Consecutive votes for President Trump		
Run	**#**	
16	19	Very Unlikely (0.1-1%)
17	9	Very Unlikely (0.1-1%)
18	5	Very Unlikely (0.1-1%)
19	5	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
27	12	Very Unlikely (0.1-1%)
28	15	Very Unlikely (0.1-1%)
29	8	Very Unlikely (0.1-1%)
30	8	Very Unlikely (0.1-1%)

20	5	Very Unlikely (0.1-1%)
21	4	Extremely Unlikely (<0.1%)
22	3	Extremely Unlikely (<0.1%)
23	3	Extremely Unlikely (<0.1%)
30	2	Extremely Unlikely (<0.1%)

31	5	Very Unlikely (0.1-1%)
32	11	Extremely Unlikely (<0.1%)
33	9	Extremely Unlikely (<0.1%)
34	12	Extremely Unlikely (<0.1%)
35	5	Extremely Unlikely (<0.1%)
36	2	Extremely Unlikely (<0.1%)
37	4	Extremely Unlikely (<0.1%)
39	7	Extremely Unlikely (<0.1%)
40	3	Extremely Unlikely (<0.1%)
41	2	Extremely Unlikely (<0.1%)
43	2	Extremely Unlikely (<0.1%)
45	3	Extremely Unlikely (<0.1%)

Salem

Consecutive votes for President Trump		
Run	**#**	
26	2	Very Unlikely (0.1-1%)
27	2	Very Unlikely (0.1-1%)

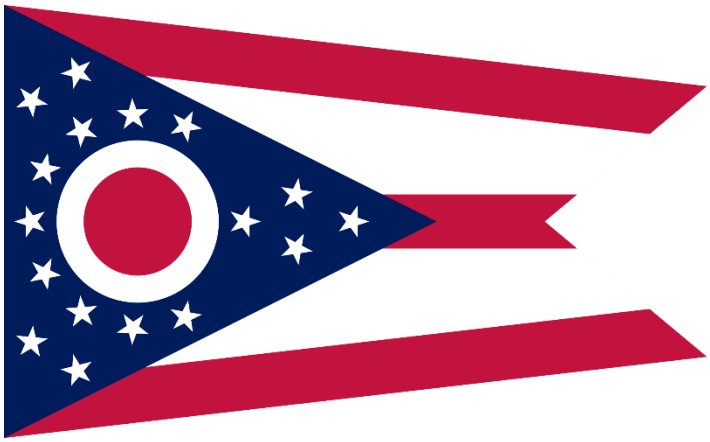
Consecutive Votes for Joseph Biden		
Run	**#**	
17	3	Very Unlikely (0.1-1%)
19	2	Very Unlikely (0.1-1%)
20	3	Extremely Unlikely (<0.1%)

Union

Consecutive votes for President Trump		
Run	**#**	
13	20	Very Unlikely (0.1-1%)
14	16	Very Unlikely (0.1-1%)
15	13	Extremely Unlikely (<0.1%)
16	3	Extremely Unlikely (<0.1%)
17	6	Extremely Unlikely (<0.1%)
18	3	Extremely Unlikely (<0.1%)
20	3	Extremely Unlikely (<0.1%)
21	2	Extremely Unlikely (<0.1%)
24	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
38	11	Very Unlikely (0.1-1%)
39	7	Very Unlikely (0.1-1%)
40	12	Very Unlikely (0.1-1%)
41	8	Very Unlikely (0.1-1%)
42	9	Very Unlikely (0.1-1%)
43	5	Very Unlikely (0.1-1%)
44	8	Very Unlikely (0.1-1%)
45	5	Very Unlikely (0.1-1%)
46	6	Extremely Unlikely (<0.1%)
48	2	Extremely Unlikely (<0.1%)
49	3	Extremely Unlikely (<0.1%)
50	2	Extremely Unlikely (<0.1%)
51	3	Extremely Unlikely (<0.1%)
54	2	Extremely Unlikely (<0.1%)
55	4	Extremely Unlikely (<0.1%)
57	2	Extremely Unlikely (<0.1%)
59	2	Extremely Unlikely (<0.1%)
60	4	Extremely Unlikely (<0.1%)
61	2	Extremely Unlikely (<0.1%)
68	2	Extremely Unlikely (<0.1%)
83	2	Extremely Unlikely (<0.1%)
85	2	Extremely Unlikely (<0.1%)
89	3	Extremely Unlikely (<0.1%)

OHIO



39 of the 88 Ohio Counties responded positively to public records requests for Cast Vote Records. 24 of the 39 counties responding show the general Mesa Pattern in their mail-in ballots. The average Back Half Rise of the 24 counties was 1.12.
Several counties' Cast Vote Records contain significantly more ballots than the official results, particularly Clermont County which shows 3,109 more. Cuyahoga County's Cast Vote Record is missing over half of the ballots reported in its official results.

The following chart shows the total ballots, Trump mail-in Midpoint percentage, Trump mail-in Endpoint percentage, and the Back Half Rise.

County	Vendor	Mail Votes	Trump Ending %	Trump Mid %	Back Half Rise
Ashtabula	ES&S	37,100	66%	57%	1.17
Belmont	ES&S	19,400	64%	58%	1.1
Butler	Dominion	52,300	46%	43%	1.07
Clark	Clear Ballot	19,100	44%	39%	1.13
Clermont	ES&S	17,300	67%	62%	1.08
Clinton	Clear Ballot	4,800	60%	57%	1.06
Greene	Dominion	32,800	44%	42%	1.05
Hancock	Dominion	22,900	61%	54%	1.14
Harrison	Dominion	3,700	67%	60%	1.13
Highland	Clear Ballot	4,300	63%	58%	1.08
Hocking	Clear Ballot	3,900	55%	51%	1.07
Logan	ES&S	16,200	74%	66%	1.13
Miami	Clear Ballot	15,100	54%	49%	1.1
Putnam	Mail	9,500	78%	71%	1.11
Richland	Dominion	37,300	63%	54%	1.17
Seneca	ES&S	13,500	58%	50%	1.16
Wayne	Dominion	30,300	58%	49%	1.19
Williams	Hart Intercivic	3,200	54%	51%	1.07
Wood	Dominion	39,500	43%	35%	1.21

Additionally, 5 counties show a Reverse Mesa Pattern, where the votes gradually favor Joseph Biden over time. Curiously, they all use ES&S as their election system vendor.

County	Vendor	Mail Votes	Trump Endpoint	Trump Midpoint	Back Half Fall
Allen	ES&S	25400	0.6	0.67	-1.12
Darke	ES&S	5400	0.64	0.67	-1.05
Preble	ES&S	11200	0.716	0.792	-1.11
Ross	ES&S	13500	0.54	0.59	-1.09
Tuscarawas	ES&S	19300	0.58	0.63	-1.09

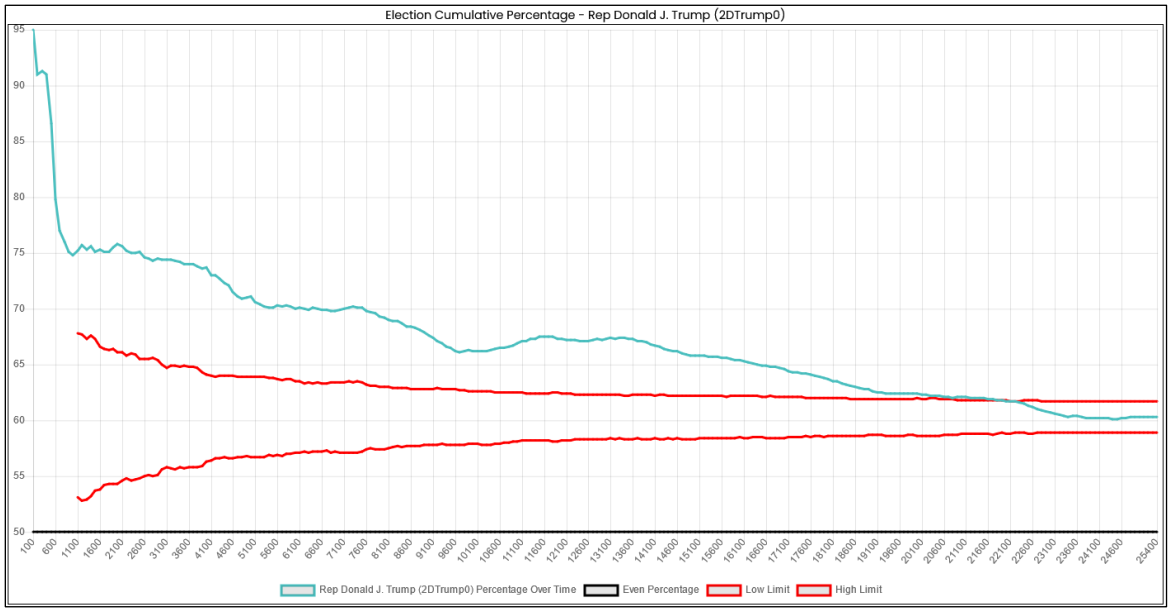
Following is the detailed breakdown of each of the 39 counties which provided an adequate Cast Vote Record.

- **Allen County**
  Vendor: Election Systems & Software

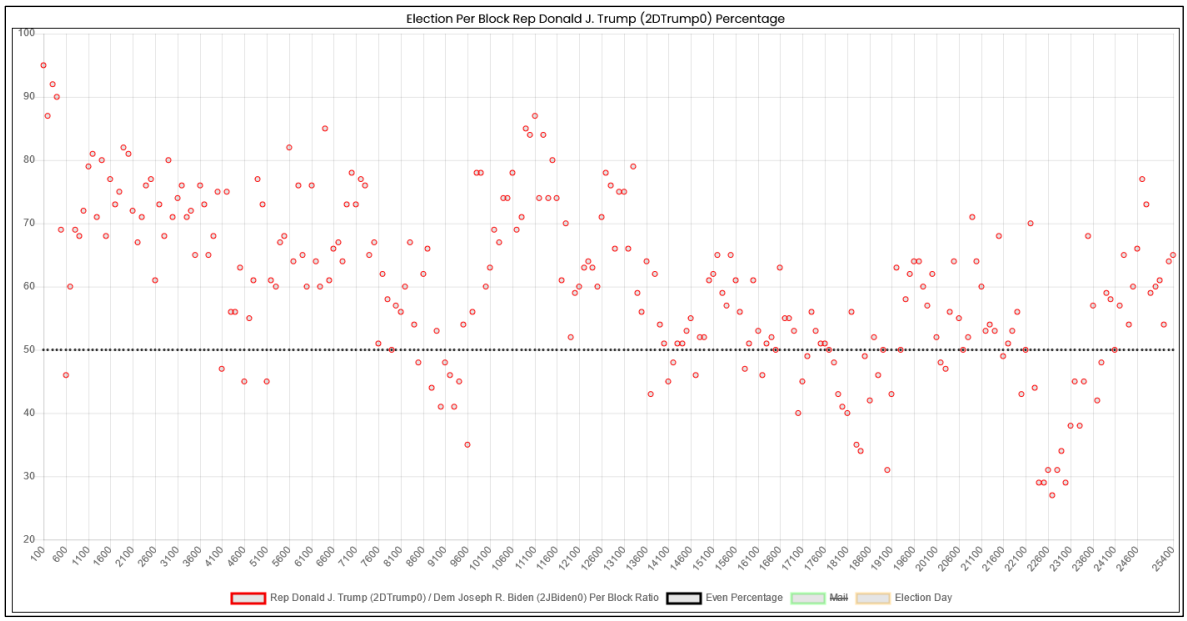
  The Ohio official results report 48,009 ballots cast for president, and the Cast Vote Record report 47,993. Thus, **16** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 68.3% to Joseph Biden's 29.3%.

  Plotting the mail-in votes in sequence shows the Reverse Mesa Pattern with a back half fall of 1.21 in favor of President Biden. The reasons why this county actually shows possible manipulation *for* President Trump are unknown, however this shows the same visual and mathematical pattern as the other Mesa Pattern counties.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

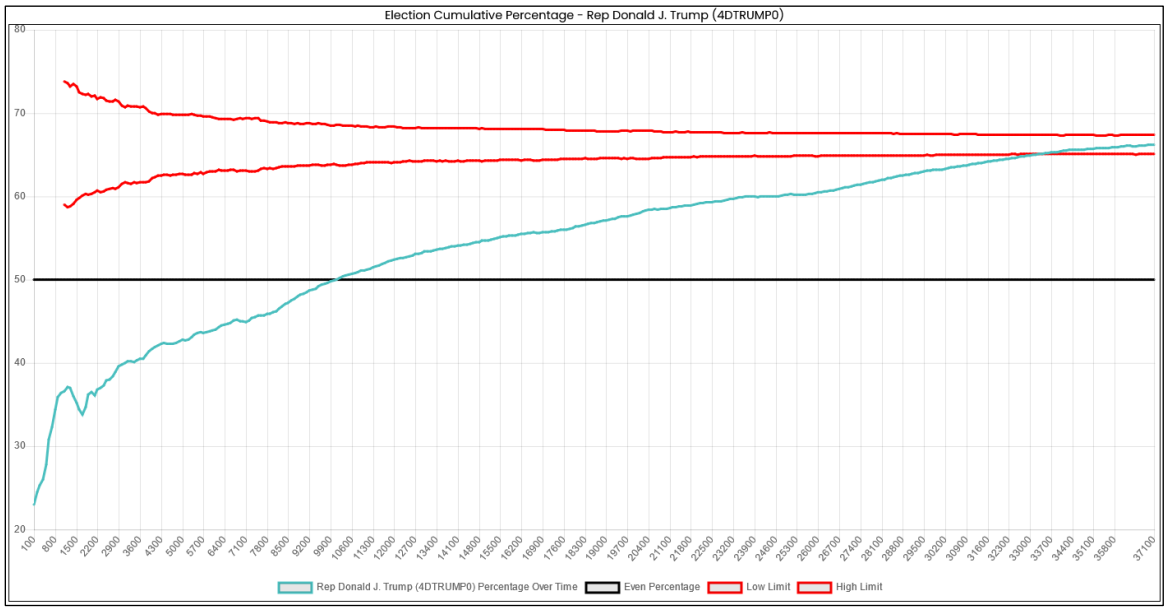


- **<u>Ashtabula County</u>**
  Vendor: Election Systems & Software

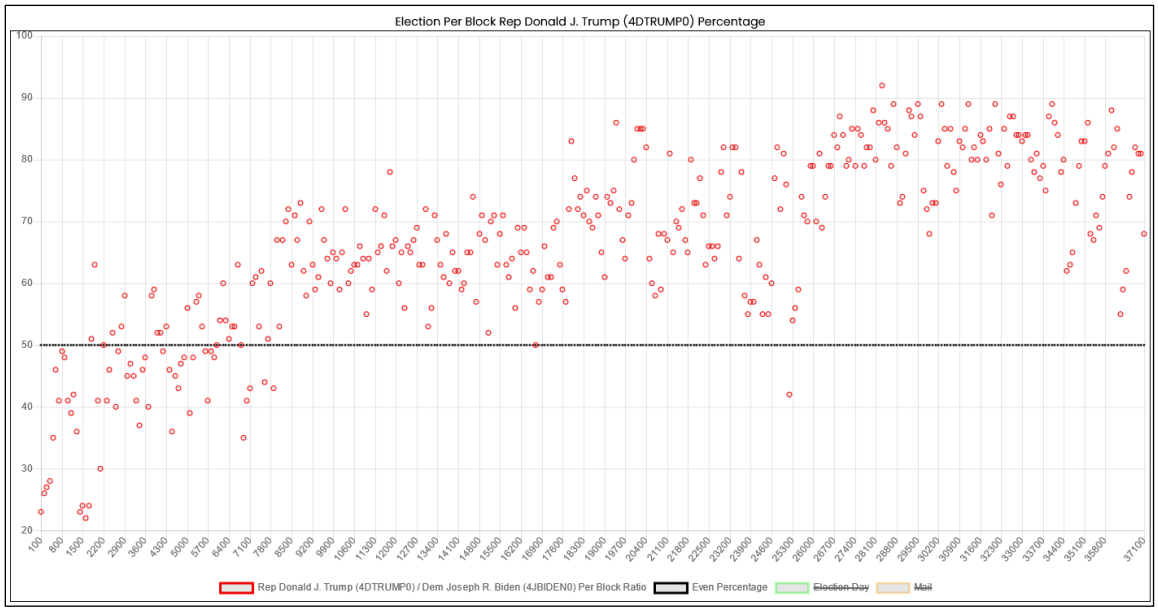
  The Ohio official results report 44,237 ballots cast for president, and the Cast Vote Record report 44,061. Thus, 176 ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 60.4% to Joseph Biden's 37.0%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.17 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

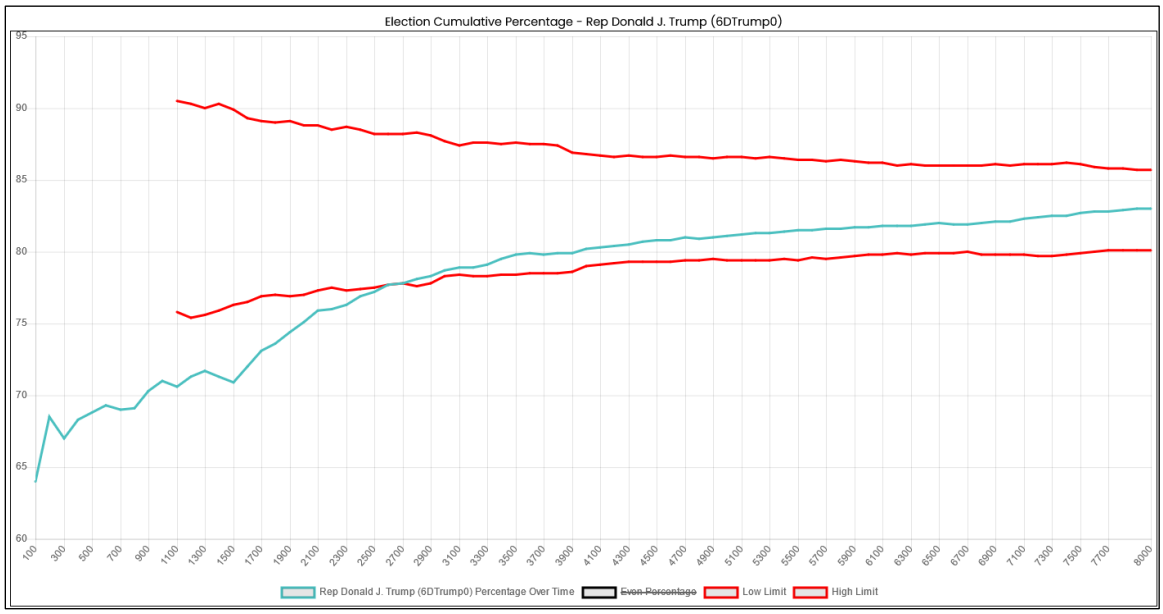


- **Auglaize County**
  Vendor: Election Systems & Software

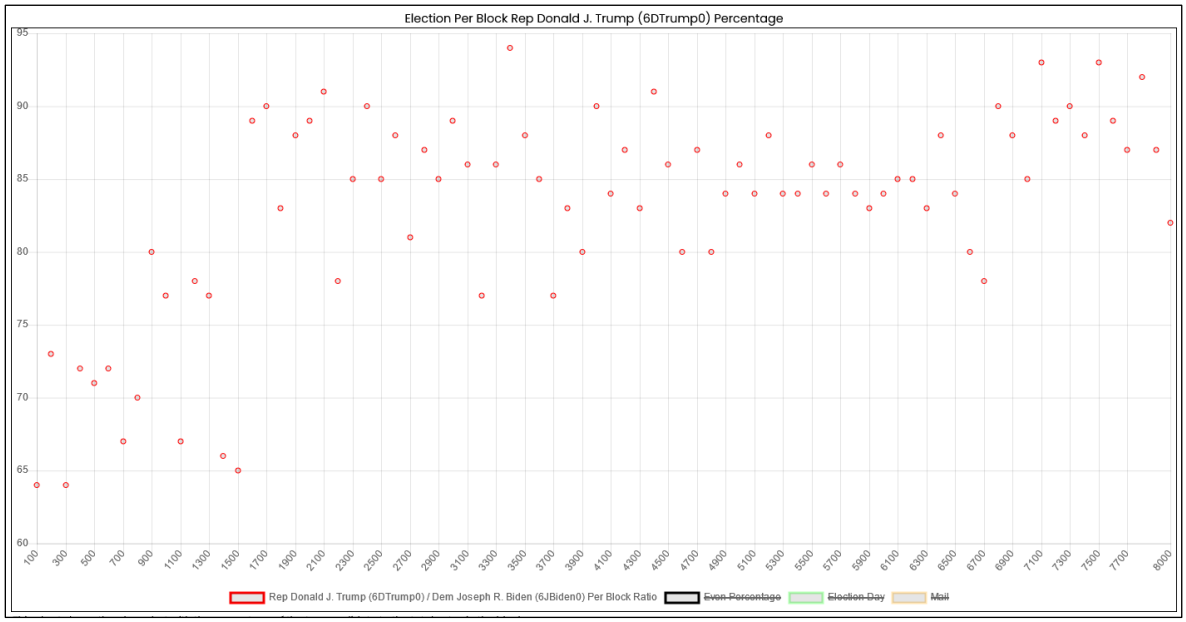
  The Ohio official results report 25,822 ballots cast for president, and the Cast Vote Record report 25,822. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 80.2% to Joseph Biden's 17.9%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern, but with a small back half rise of just 1.03 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows an upwards pattern, but not as pronounced as most other counties

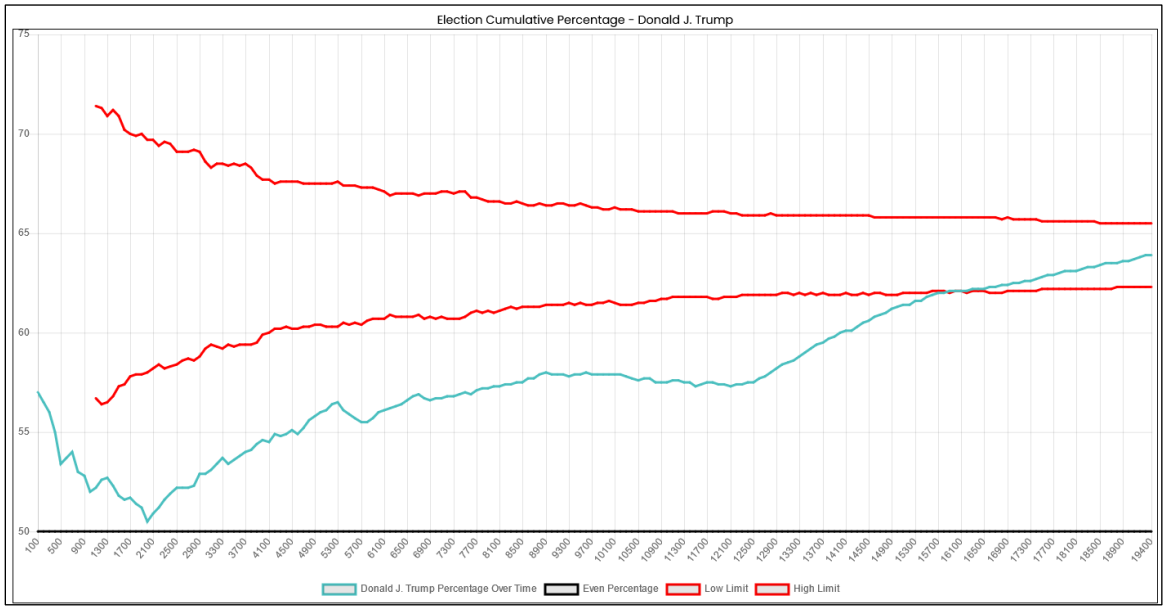


- **Belmont County**
  Vendor: Election Systems & Software

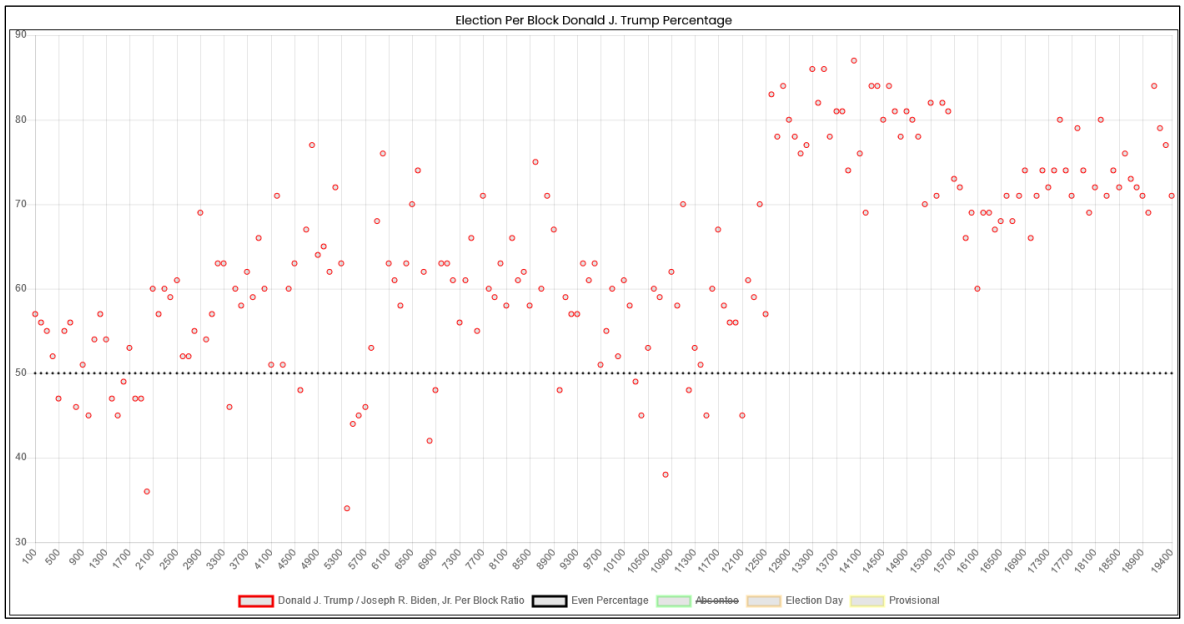
  The Ohio official results report 33,141 ballots cast for president, and the Cast Vote Record report 33,141. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 71.6% to Joseph Biden's 27.6%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.10 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a general rise to the midpoint, then a sudden change to much higher percentages.

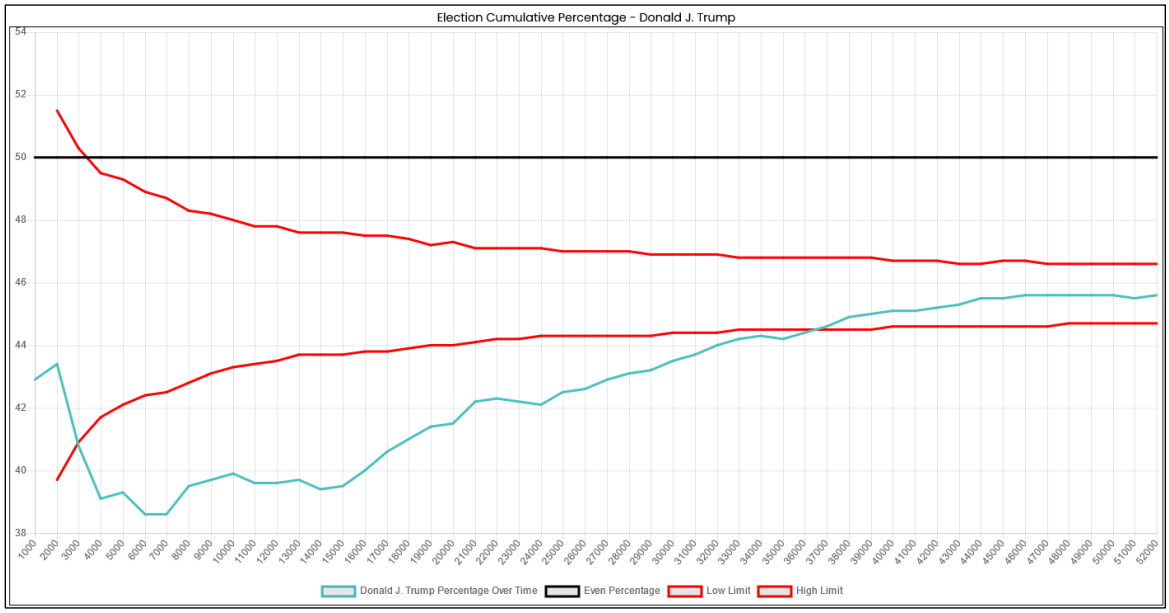


- **Butler County**
  Vendor: Dominion Voting Systems

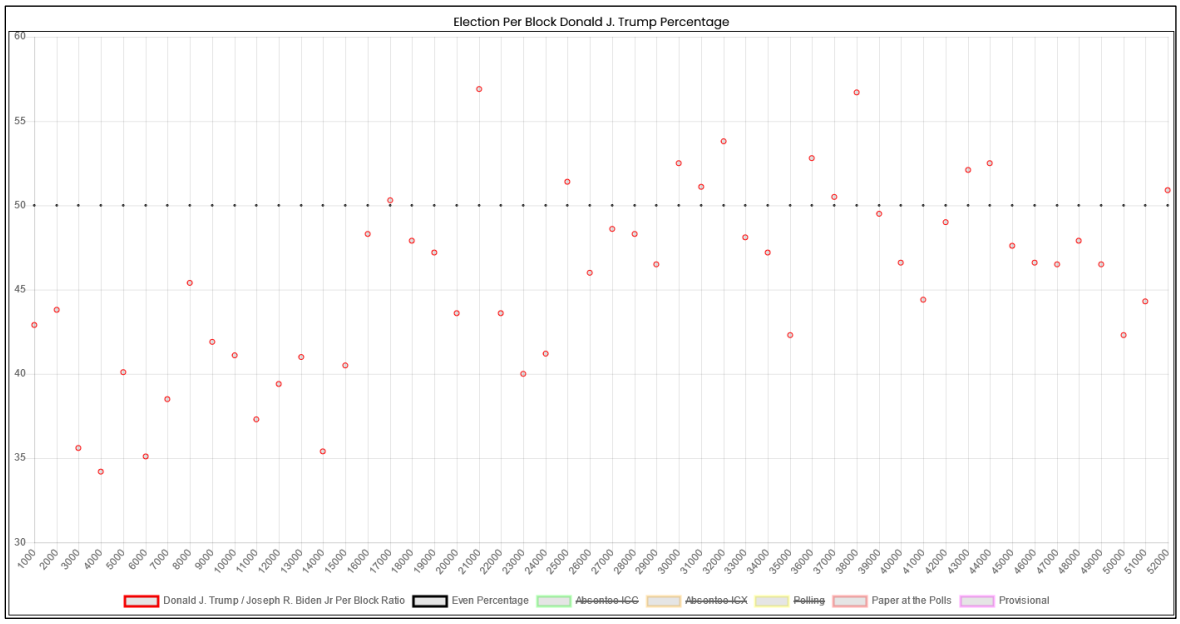
  The Ohio official results report 186,737 ballots cast for president, and the Cast Vote Record reports 186,737. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 61.3% to Joseph Biden's 37.3%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.07 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes shows the slight increase, with a change to a downward path at the very end.

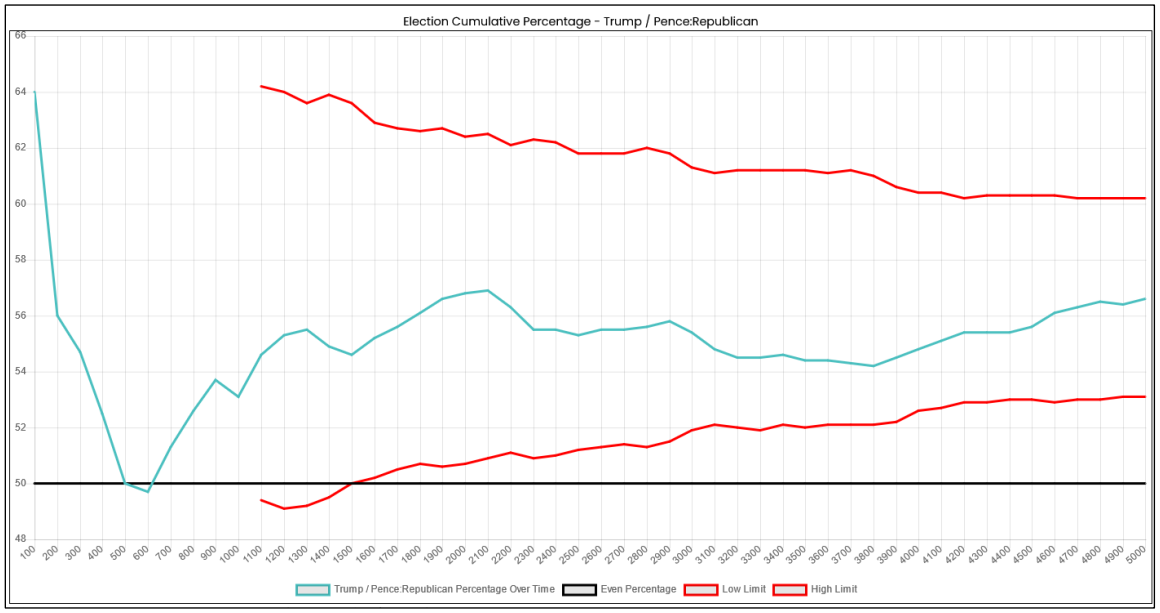


- **<u>Champaign County</u>**
  Vendor: Clear Ballot

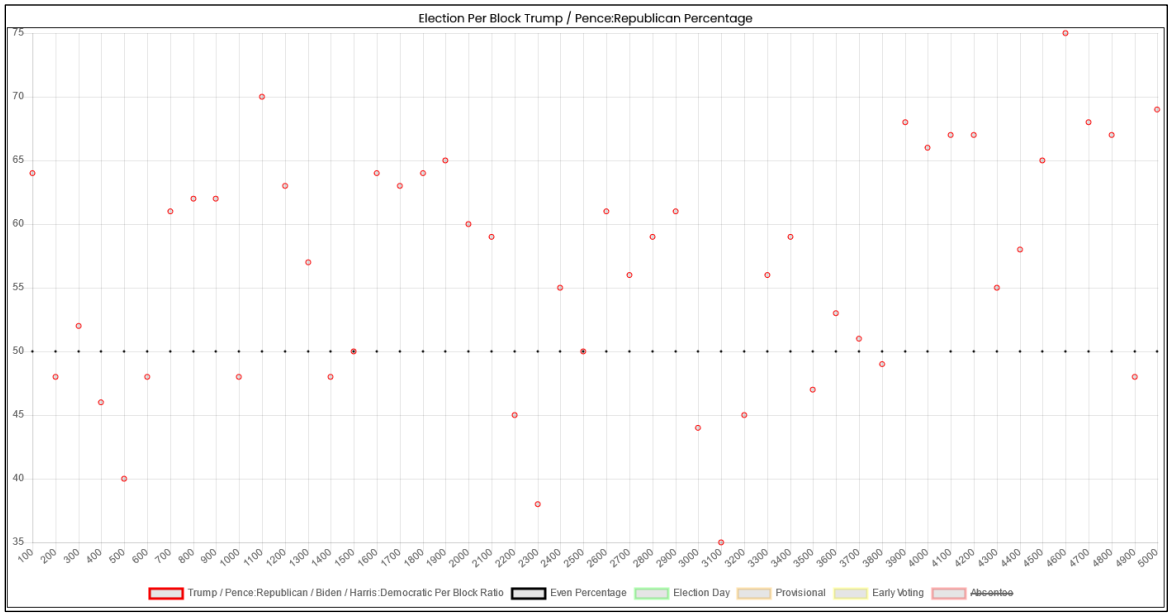
  The Ohio official results report 20,003 ballots cast for president, and the Cast Vote Record report 19,966. Thus, **37** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 72.9% to Joseph Biden's 25.3%.

  Plotting the percentage of President Trump throughout the voting shows a completely normal, expected random pattern.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows no obvious irregularities.

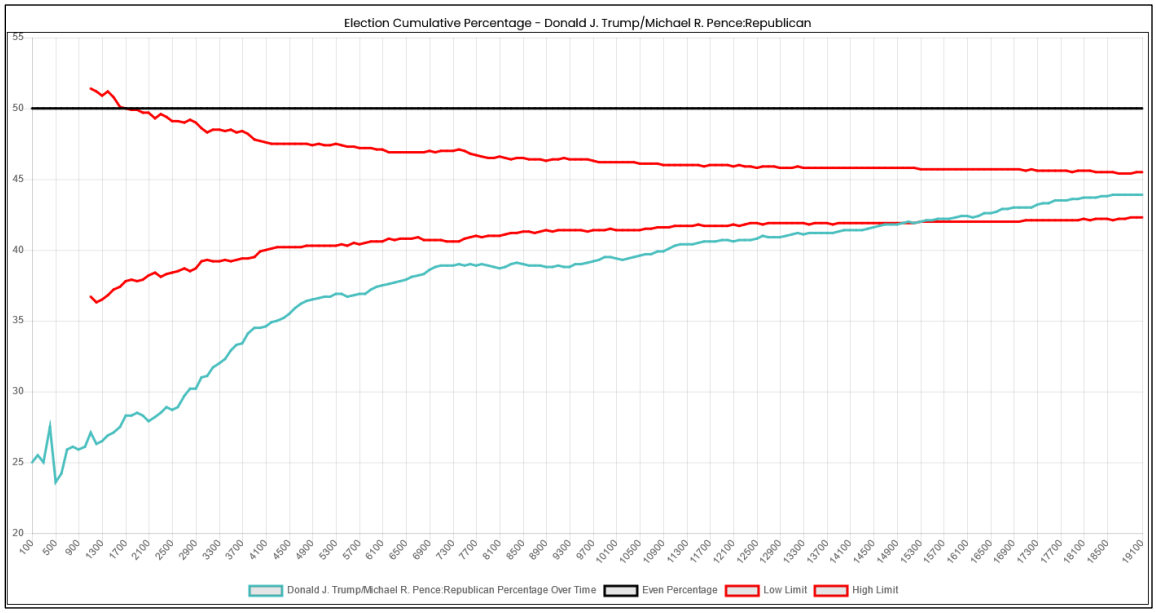


- **<u>Clark County</u>**
  Vendor: Clear Ballot

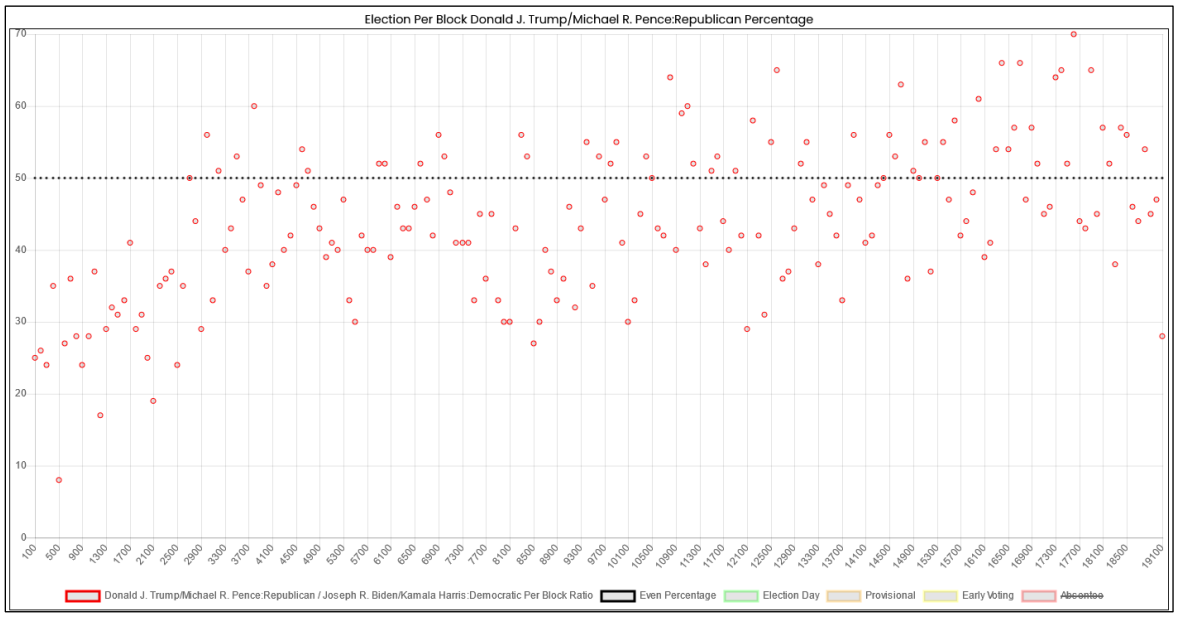
  The Ohio official results report 64,351 ballots cast for president, and the Cast Vote Record report 64,351. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 60.7% to Joseph Biden's 37.4%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.13 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

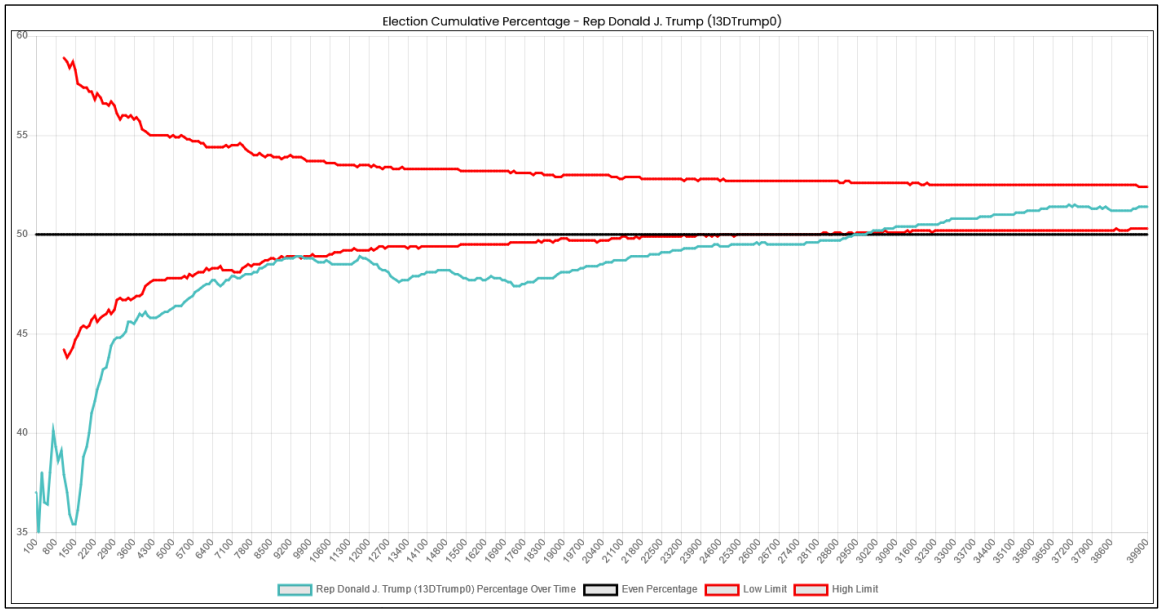


- **<u>Clermont County</u>**
  Vendor: Election Systems & Software

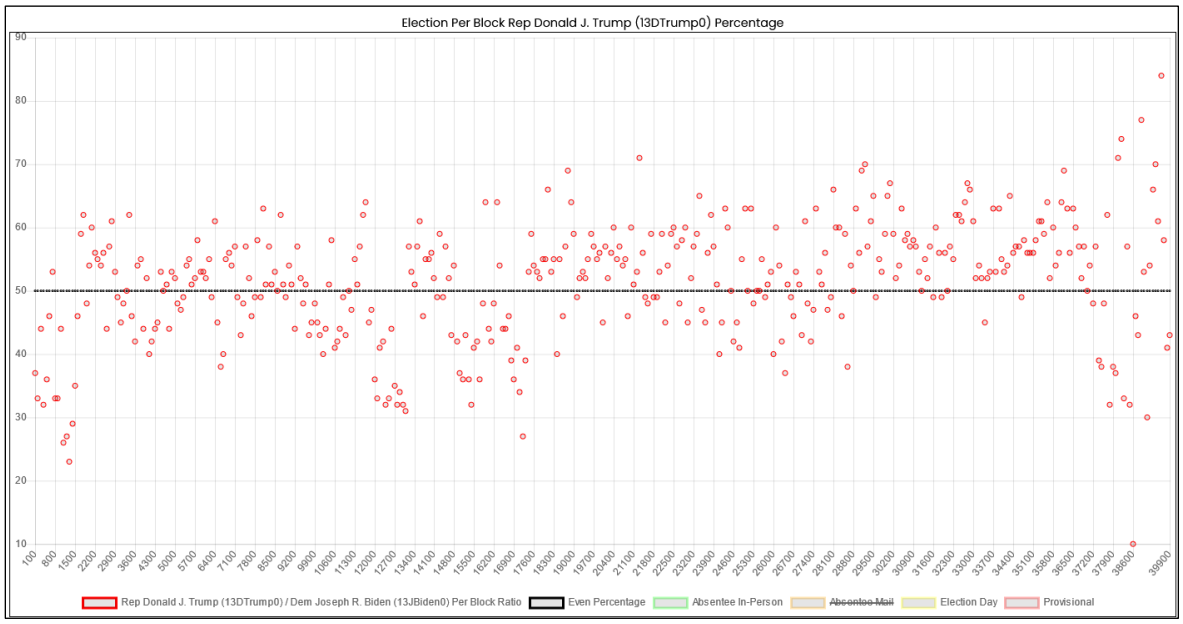
  The Ohio official results report 110,710 ballots cast for president, and the Cast Vote Record report 113,819. Thus, **the Clermont County, Ohio Cast Vote Record contains 3,109 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 66.6% to Joseph Biden's 31.0%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.06 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the sudden widening in both directions end of the counting.

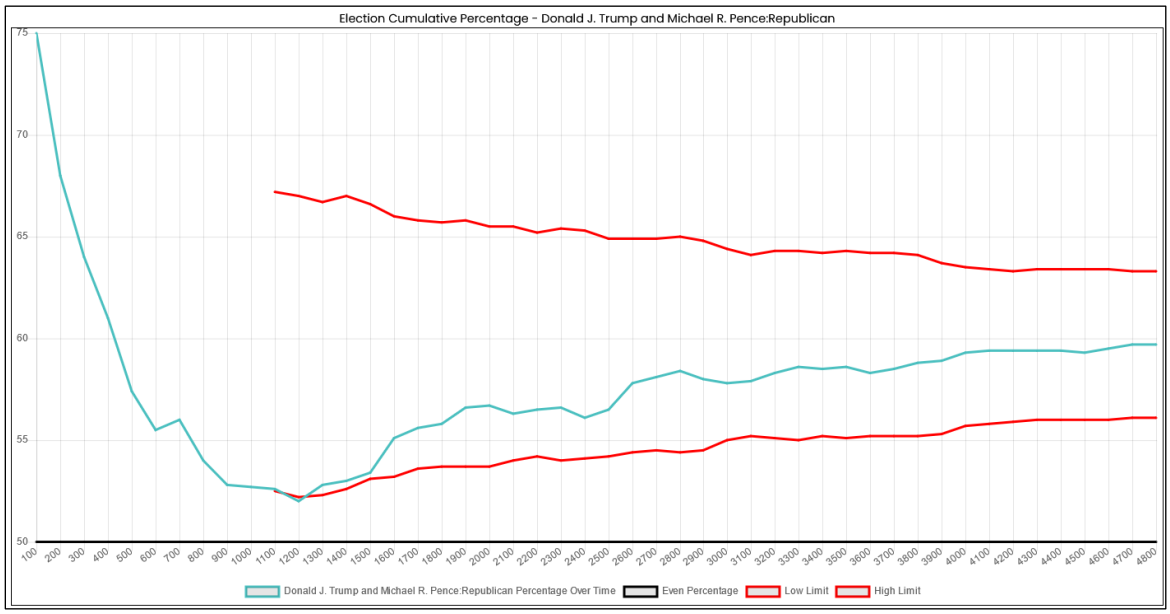


- **<u>Clinton County</u>**
  Vendor: Clear Ballot

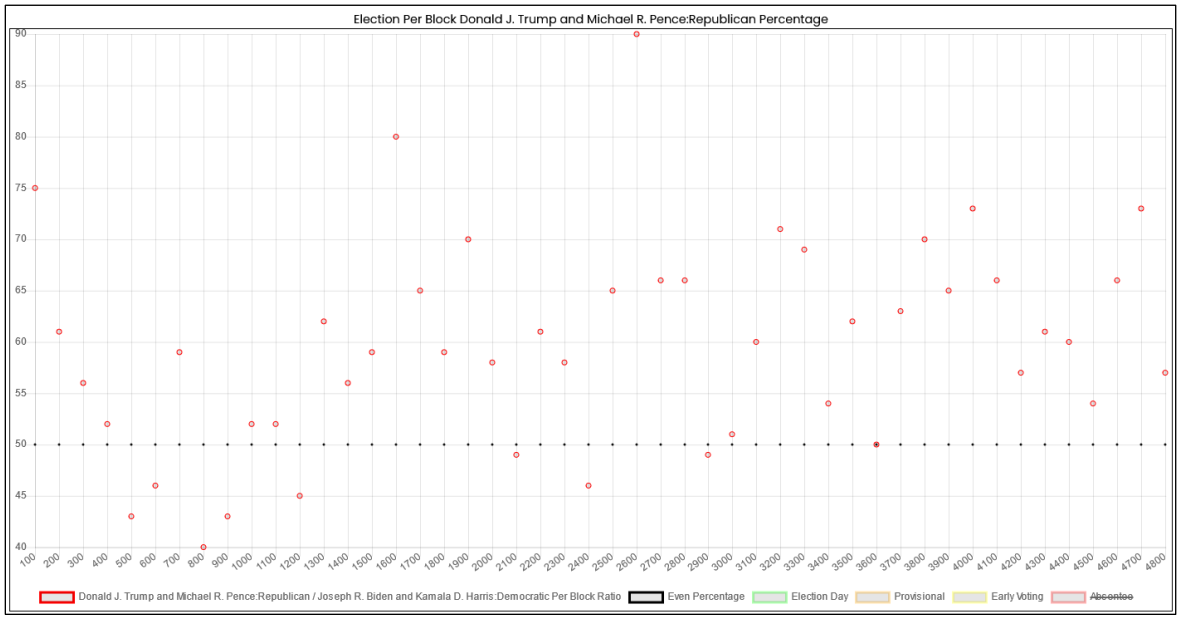
  The Ohio official results report 20,563 ballots cast for president, and the Cast Vote Record reports 20,572. Thus, **the Clinton County Cast Vote Record contains 9 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 75.3% to Joseph Biden's 22.8%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.06 in favor of President Trump. However, the percentage plot does fit within the red cones.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows the gradual rise as the counting proceeds.



- **<u>Cuyahoga County</u>**
  Vendor: Election Systems & Software

  The Ohio official results report 627,160 ballots cast for president, and the Cast Vote Record reports 283,208. Thus, **the Cuyahoga County Cast Vote Record is missing over half of the ballots when compared to the official results.** Most of the mail-in ballots seem to be among the missing.

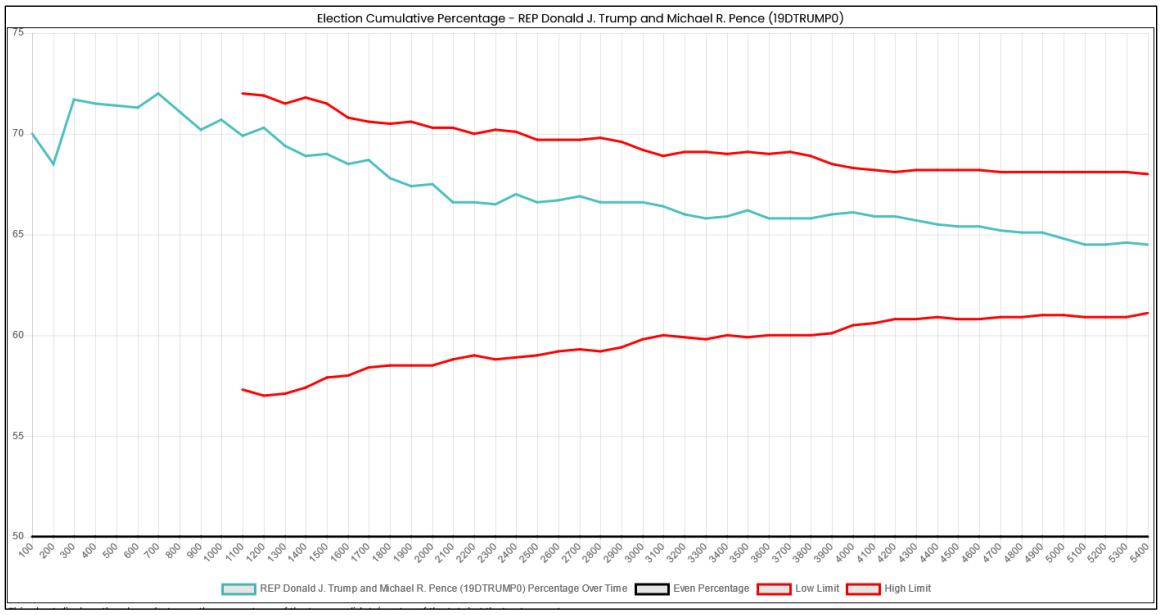
  This is odd, as I received the Cast Vote Record from multiple people, and they all contained 5 Excel spreadsheets containing the records. The first file begins at Cast Vote Record # 625,386, when normally it would begin at 1. Therefore, this Cast Vote Record is possibly the last portion of a bigger set. Whether this omission is by design or accidental needs to be investigated. Without the complete Cast Vote Record, no meaningful analysis can be performed in this very large and important county.

- **Darke County**
  Vendor: Election Systems & Software

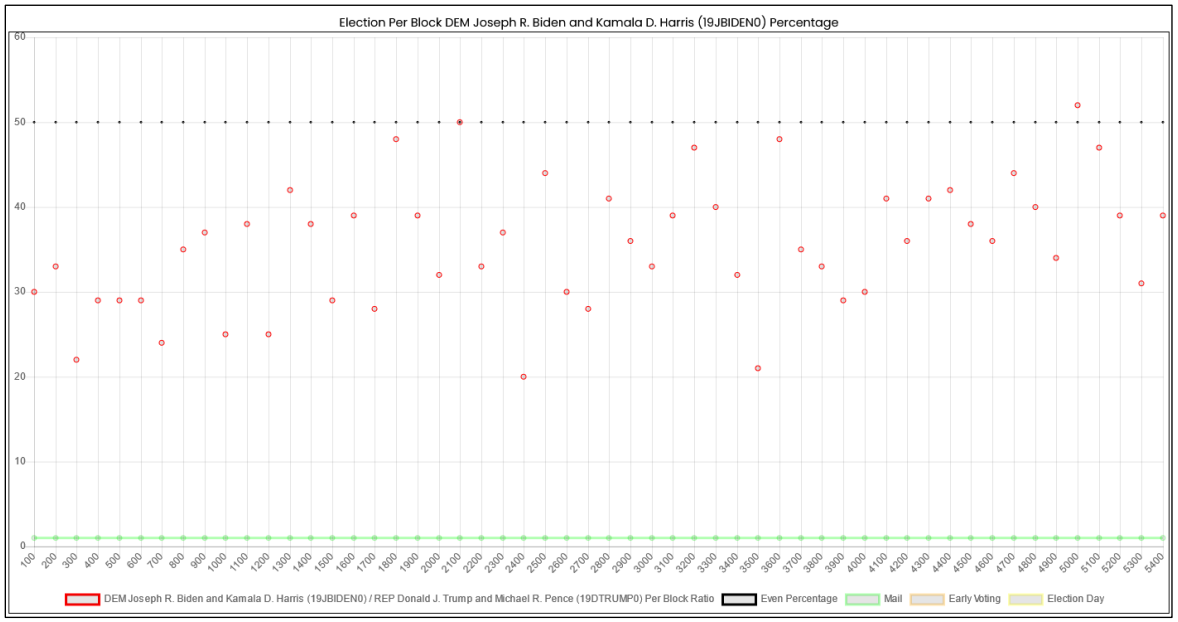
  The Ohio official results report 27,161 ballots cast for president, and the Cast Vote Record report 27,129. Thus, **32** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 80.5% to Joseph Biden's 17.3%.

  Plotting the mail-in votes in sequence shows the Reverse Mesa Pattern with a back half fall of 1.07 in favor of Joseph Biden. However, the percentage plot is within the red cone at all times.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a very slight rise towards blocks favorable to Joseph Biden..



- Erie County

  Vendor: Election Systems & Software

  The Ohio official results report 40,416 ballots cast for president, and the Cast Vote Record report 40,528. Thus, **the Erie County Cast Vote Record contains 112 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 54.5% to Joseph Biden's 43.0%.

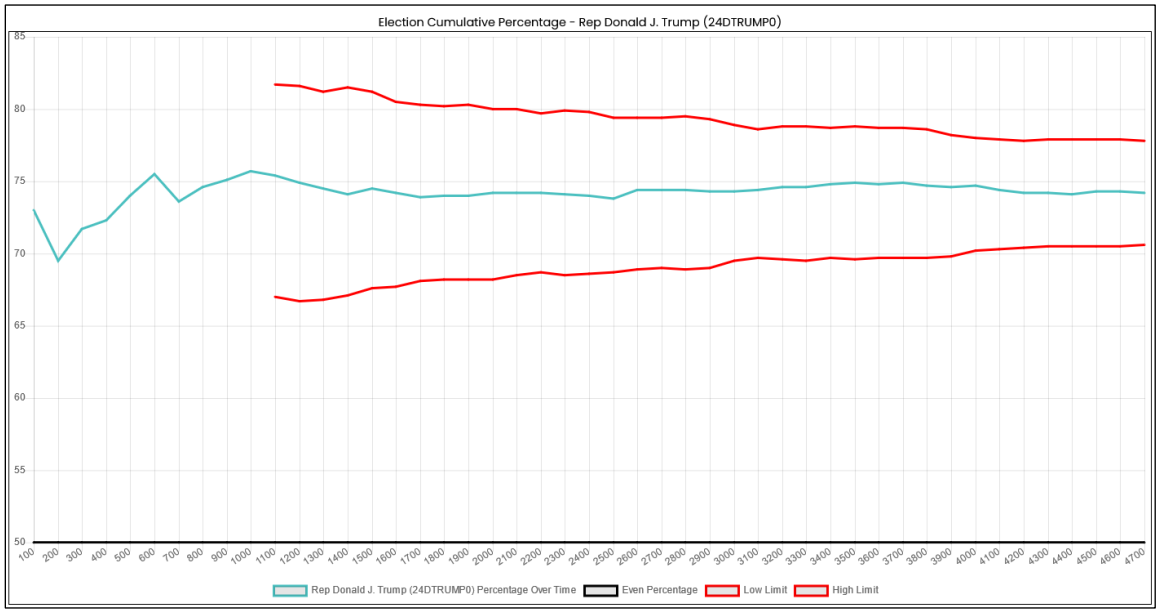
  The Cast Vote Record does not indicate type of vote (in-person, mail-in, etc.) and the precinct distribution/block ratio are too chaotic to determine them. Therefore, no pattern analysis can be performed.

- **<u>Fayette County</u>**
  Vendor: Election Systems & Software

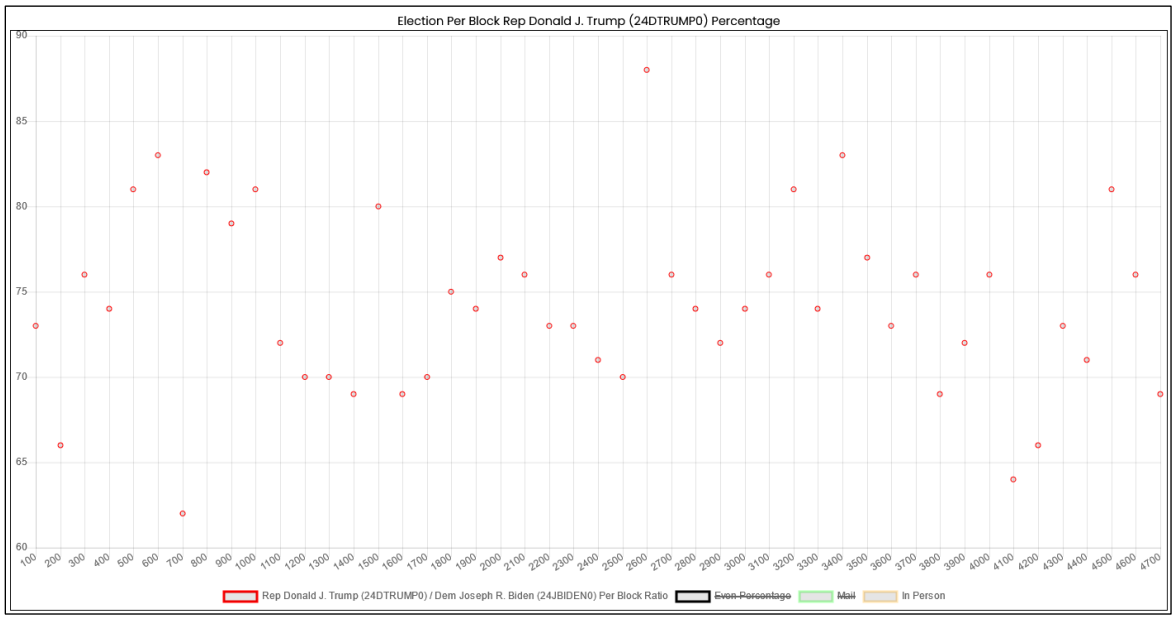
  The Ohio official results report 12,626 ballots cast for president, and the Cast Vote Record report 12,626. Thus, no ballots were redacted**.**

  According to the Cast Vote Record, President Trump won this county with 74.8% to Joseph Biden's 23.4%.

  Plotting the mail-in votes in shows an expected voting pattern.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows expected random block distribution.



- **Franklin County**
  Vendor: Election Systems & Software

  The Ohio official results report 632,532 ballots cast for president, and the Cast Vote Record report 632,532. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 33.2% to Joseph Biden's 64.3%.

  The Cast Vote Record indicates that the ballot records show precinct-level sorting, meaning that meaningful pattern analysis is impossible.

- **Gallia County**
  Vendor: Clear Ballot

  The Ohio official results report 13,799 ballots cast for president, and the Cast Vote Record report 13,799. Thus, no ballots were redacted

  According to the Cast Vote Record, President Trump won this county with 77.1% to Joseph Biden's 21.7%.

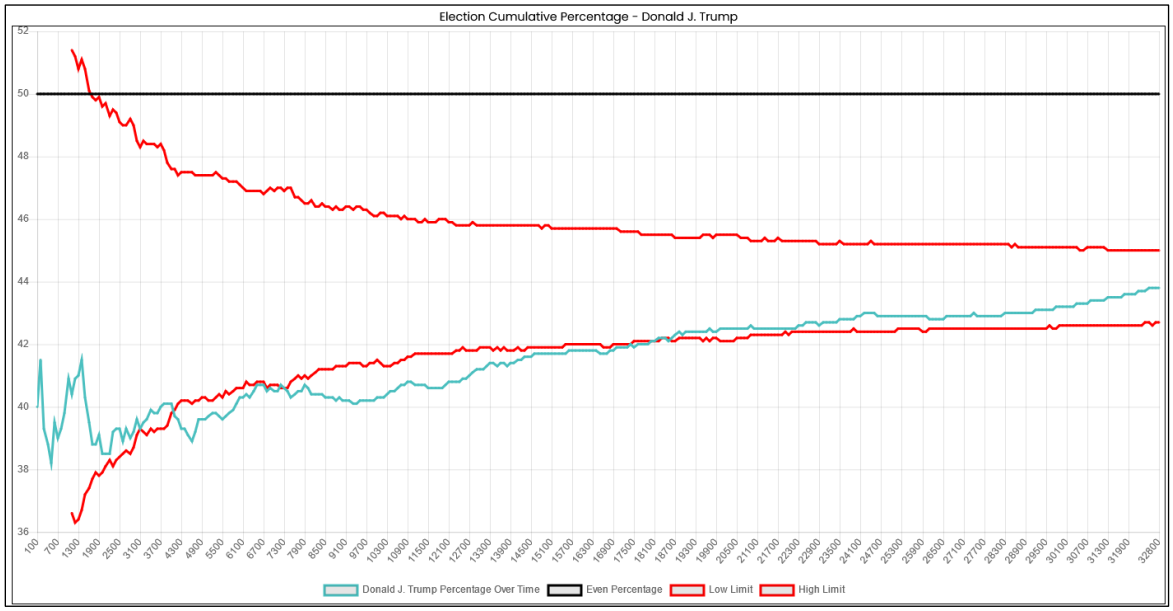
  The Cast Vote Record indicates that the ballot records show precinct-level sorting, meaning that meaningful pattern analysis is impossible.

- **Greene County**
  Vendor: Dominion Voting Systema

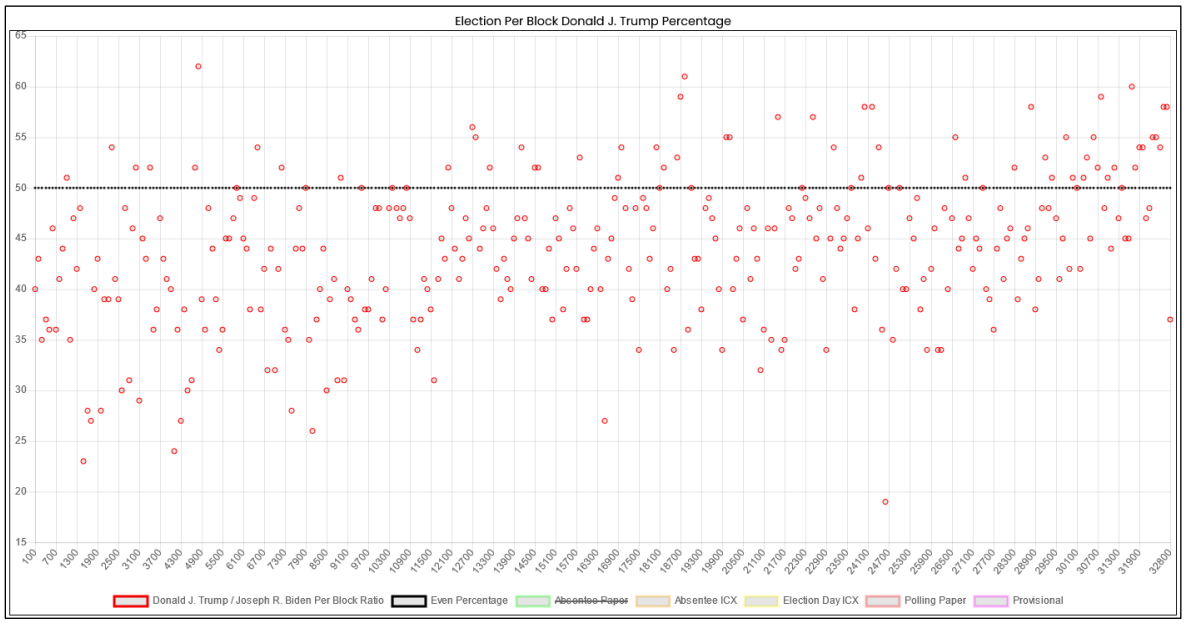
  The Ohio official results report 88,643 ballots cast for president, and the Cast Vote Record report 88,643. Thus, no ballots were redacted..

  According to the Cast Vote Record, President Trump won this county with 58.7% to Joseph Biden's 39.3%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.05 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a slight but definite rise in favor of President Trump..



- **Hamilton County**
  Vendor: Hart Intercivic

  The Ohio official results report 430,929 ballots cast for president, and the Cast Vote Record report 430,751. Thus, **178** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county with 41.3% to Joseph Biden's 57.2%.

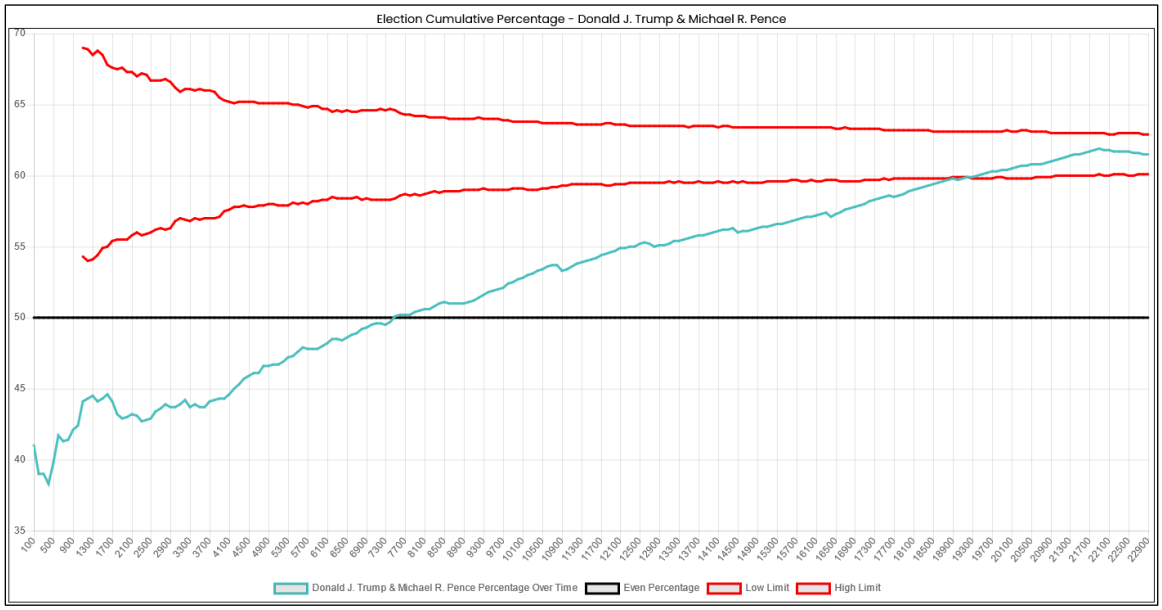
  The Cast Vote Record was provided in one massive, 430,000+ page PDF file in which the pages did not reflect the order of the ballots received, nor the method in which they were cast. Thus, no analysis for patterns is possible.

- **<u>Hancock County</u>**
  Vendor: Dominion Voting Systems

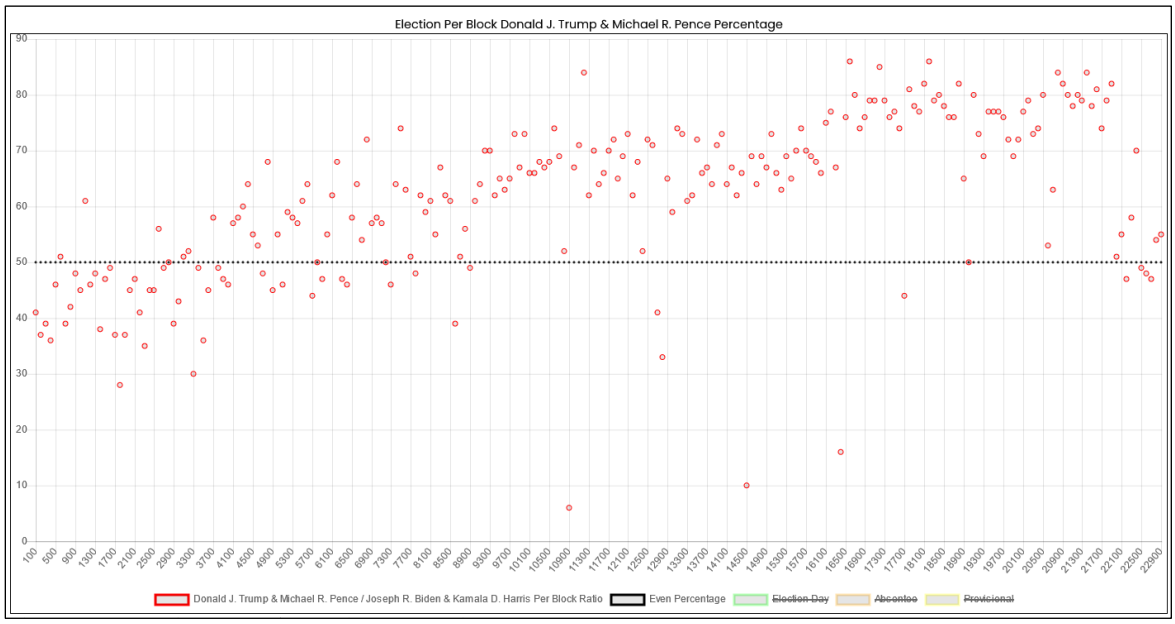
  The Ohio official results report 38,771 ballots cast for president, and the Cast Vote Record report 38,811. Thus, **the Hancock County Cast Vote Record contains 40 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 67.7% to Joseph Biden's 30.3%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.14 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. There is a tail-off at the end portion.



- **Hardin County**
  Vendor: Dominion Voting Systems

  The Ohio official results report 13,247 ballots cast for president, and the Cast Vote Record report 13,248. Thus, **the Hancock County Cast Vote Record contains 1 more ballot than the official results.**

  According to the Cast Vote Record, President Trump won this county with 75.0% to Joseph Biden's 23.1%.

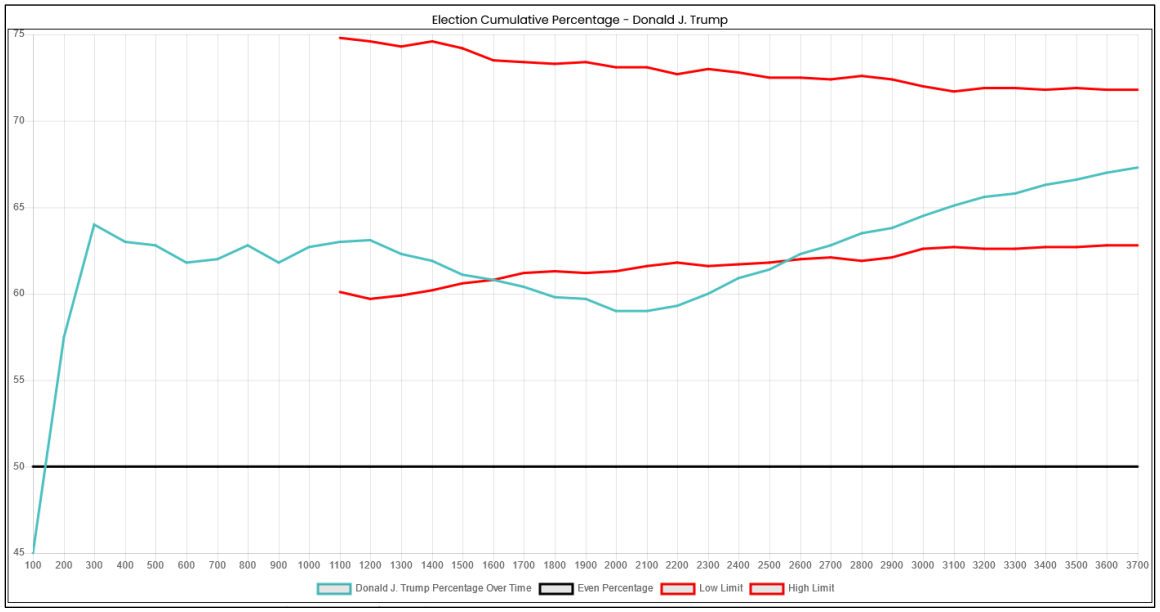
  A precinct distribution analysis of the Cast Vote Record of this county indicates that the mail-in ballots were sorted by precinct, making any pattern analysis of the percentages impossible.

- **<u>Harrison County</u>**
  Vendor: Dominion Voting Systems

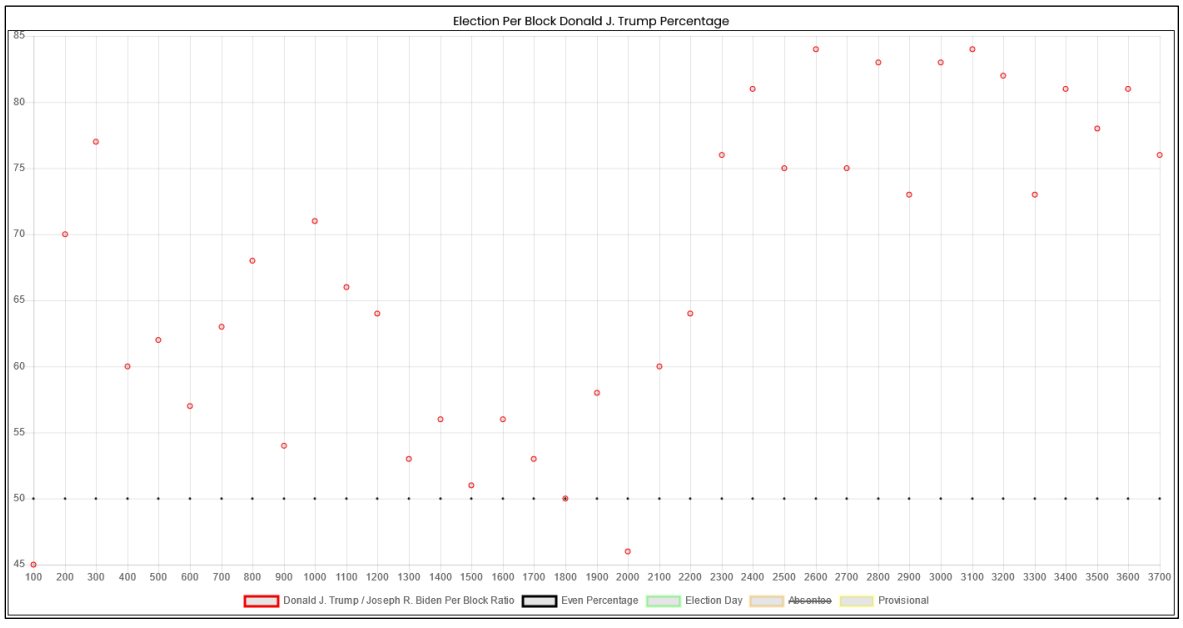
  The Ohio official results report 7,663 ballots cast for president, and the Cast Vote Record report 7,663. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 75.6% to Joseph Biden's 23.1%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.13 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows not so much a rise but two separate groups, This may be partly because of the small size of the county.

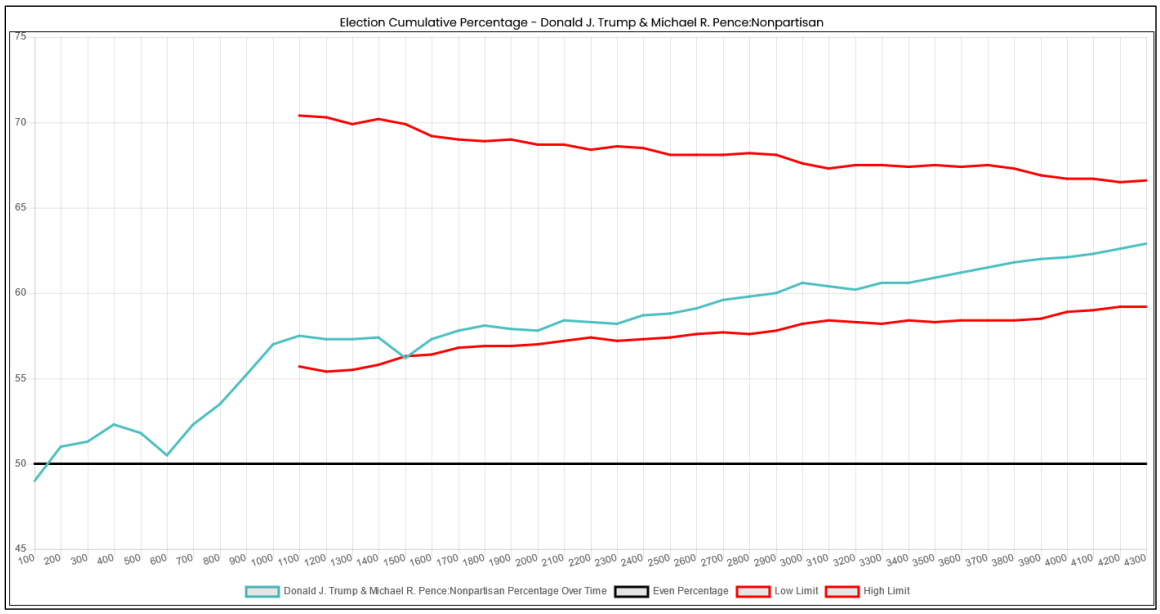


- **Highland County**
  Vendor: Clear Ballot

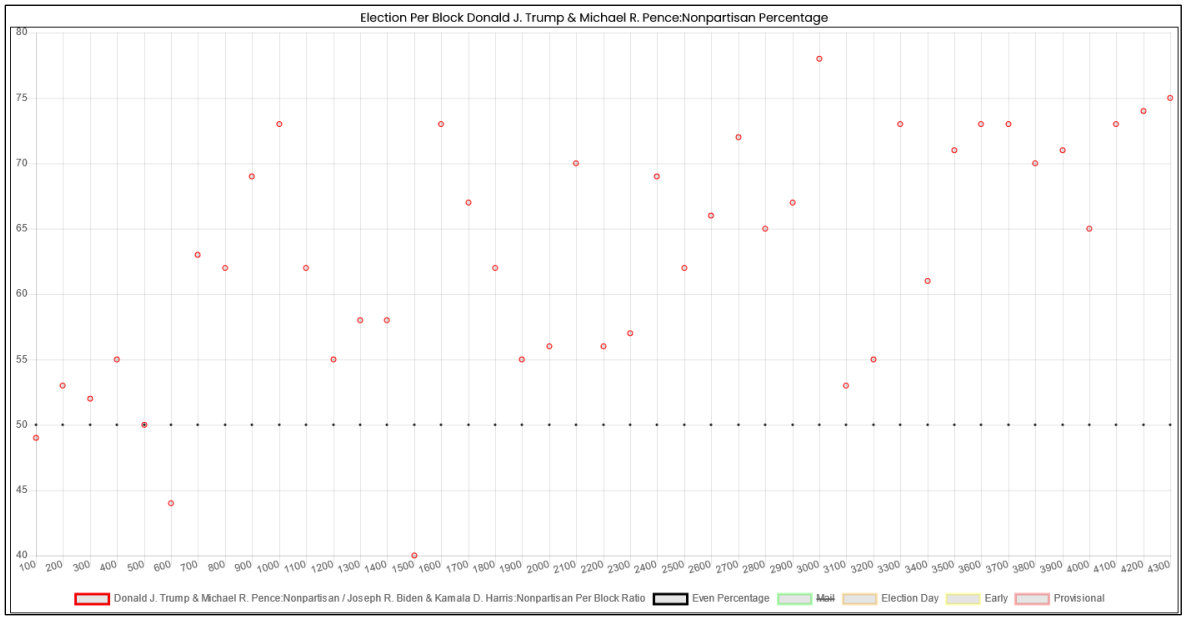
  The Ohio official results report 19,676 ballots cast for president, and the Cast Vote Record report 19.678. Thus, **the Highland County Cast Vote Record contains 2 more votes than the official results.**

  According to the Cast Vote Record, President Trump won this county with 79.7% to Joseph Biden's 19.3%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.08 in favor of President Trump. The percentage plot fits within the red cone throughout the counting.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds

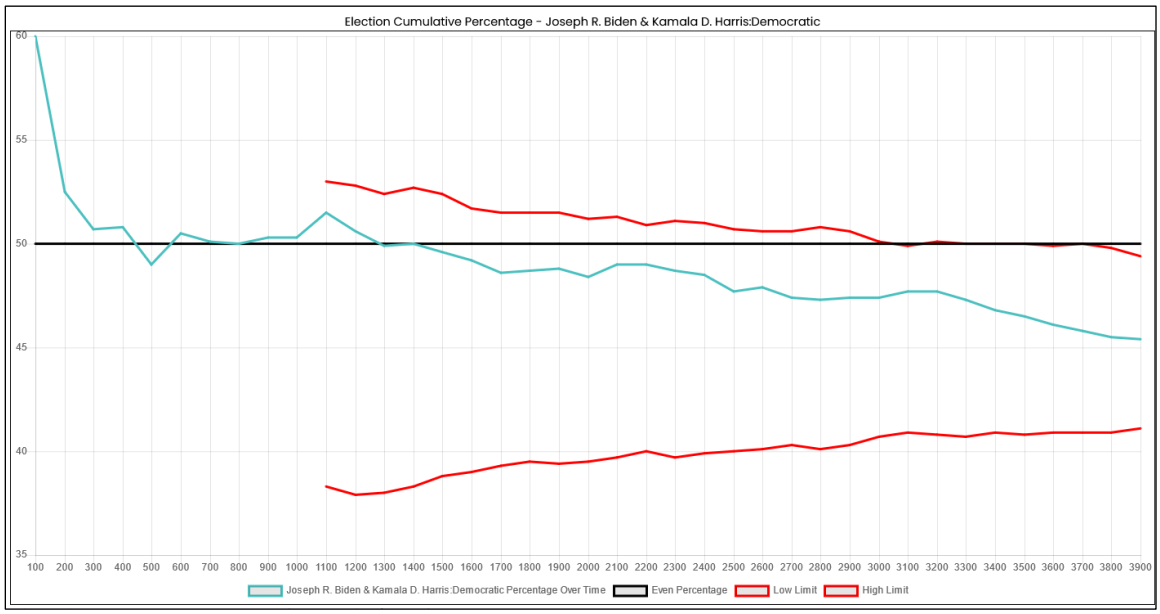


- **Hocking County**
  Vendor: Clear Ballot

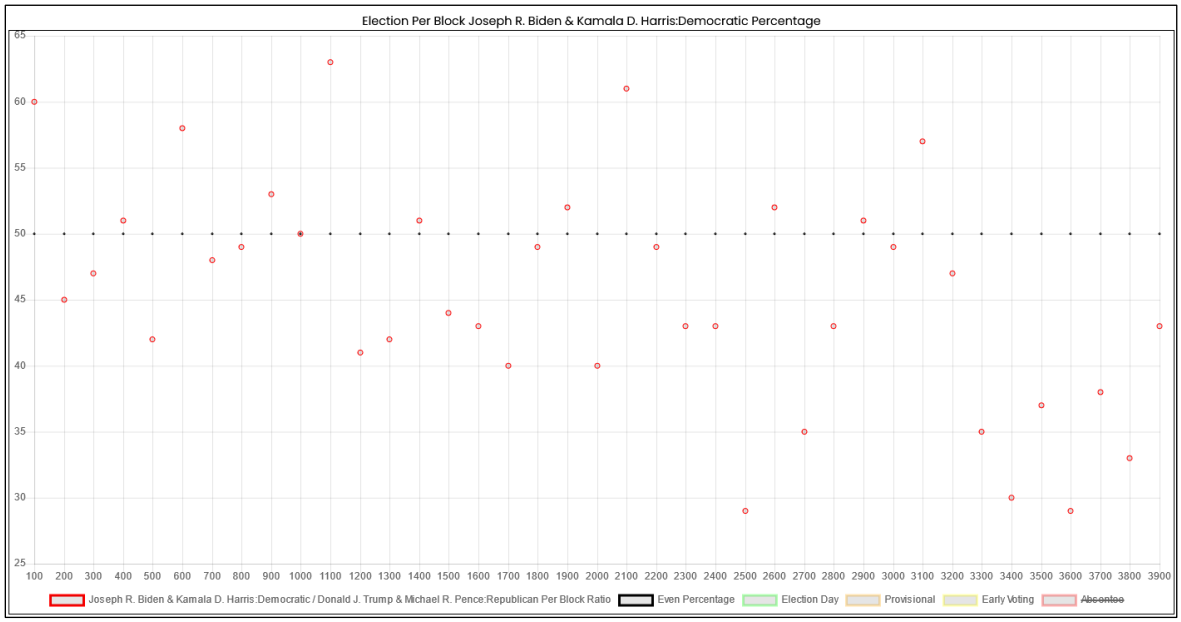
  The Ohio official results report 13,855 ballots cast for president, and the Cast Vote Record report 13,867. Thus, **the Hocking County Cast Vote Record contains 2 more votes than the official results**.

  According to the Cast Vote Record, President Trump won this county with 70.3% to Joseph Biden's 28.0%.

  Plotting the mail-in votes in sequence shows the Reverse Mesa Pattern with a back half rise of 1.07 in favor of President Trump. However, the percentage plot fits within the red cone throughout the counting.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual fall as the counting proceeds.

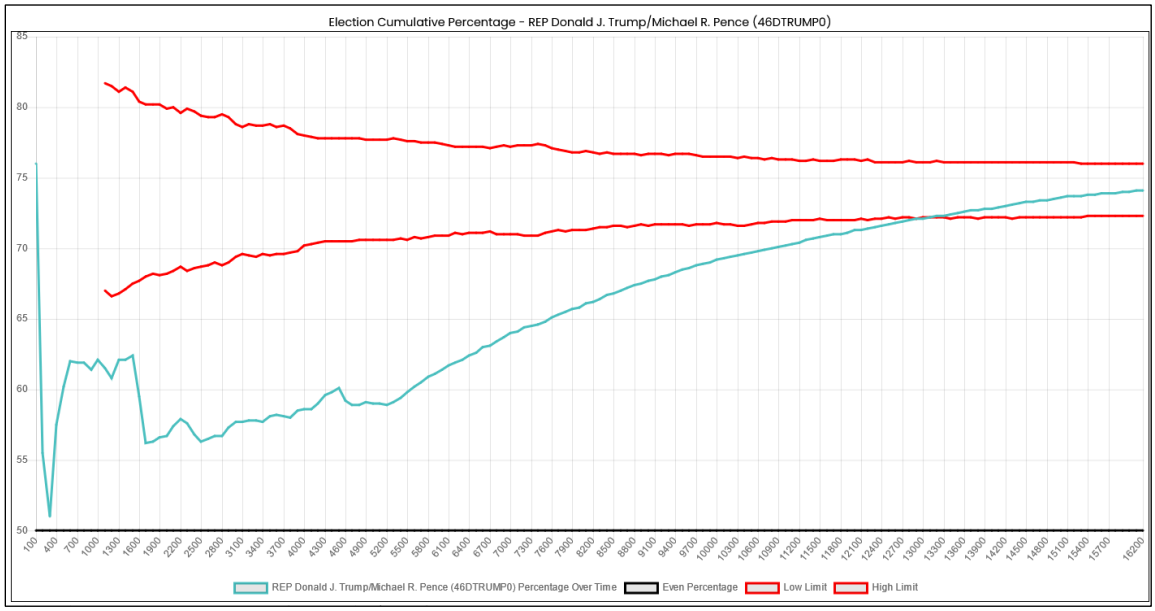


- **Logan County**
  Vendor: Election Systems & Software

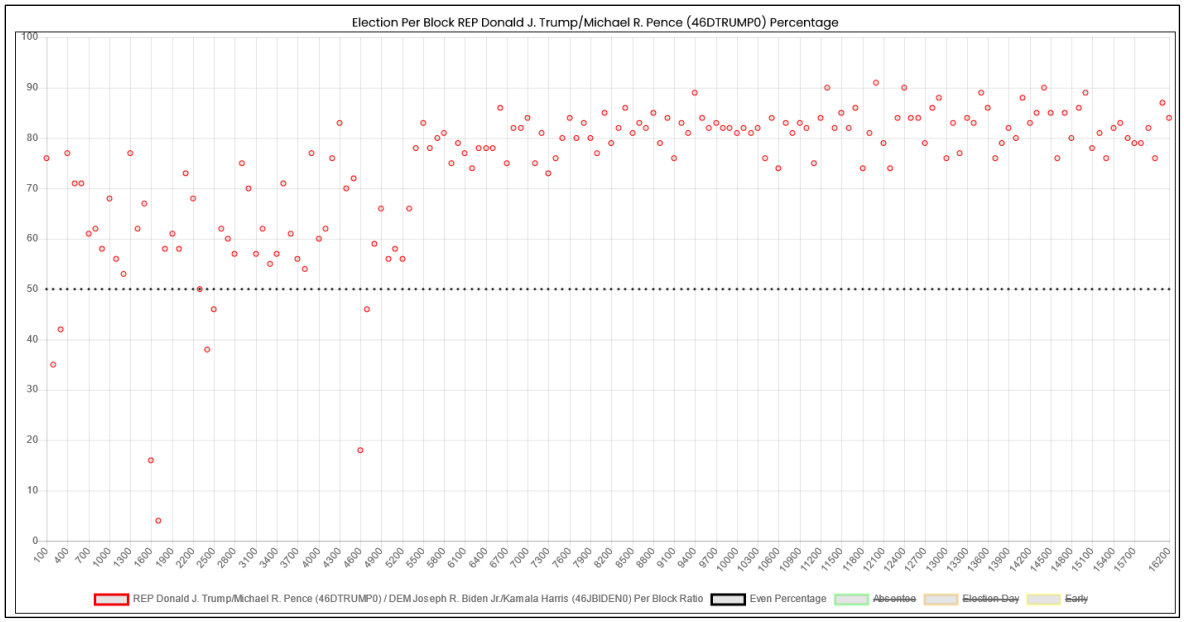
  The Ohio official results report 23,409 ballots cast for president, and the Cast Vote Record report 23,349. Thus, **60** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 74.5% to Joseph Biden's 21.1%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.13 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows a pattern break from pro-Biden to Pro-Trump at about 5,400 votes. The precinct distribution is very odd in those first 5,400, not as if sorted by precincts but by some other means, replaced by the typical random pattern common in mail in votes.

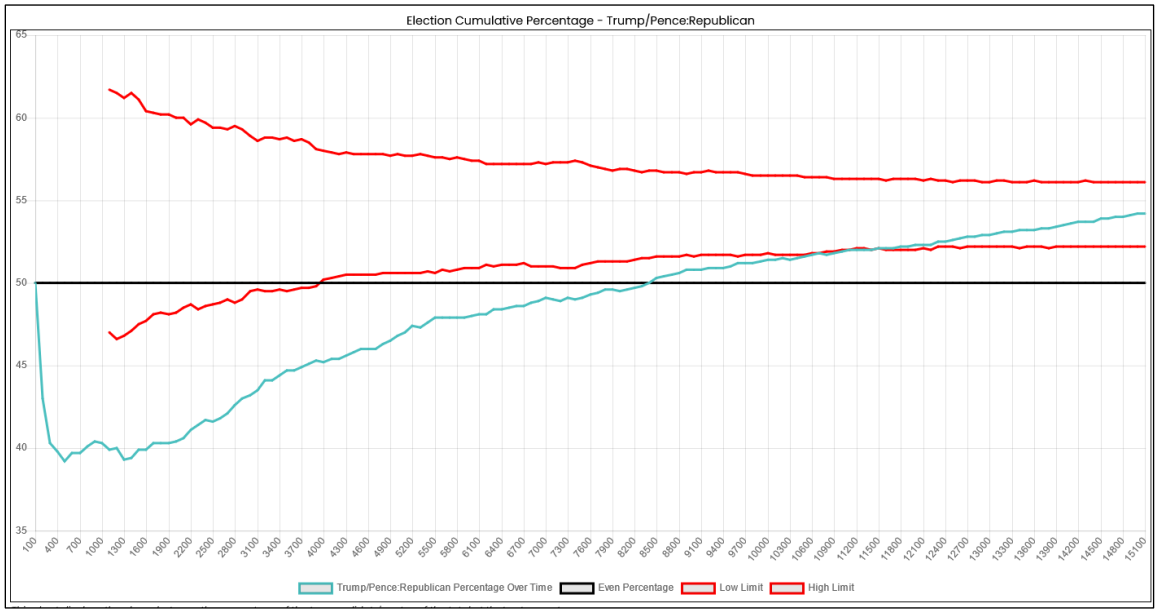


- **Miami County**
  Vendor: Clear Ballot

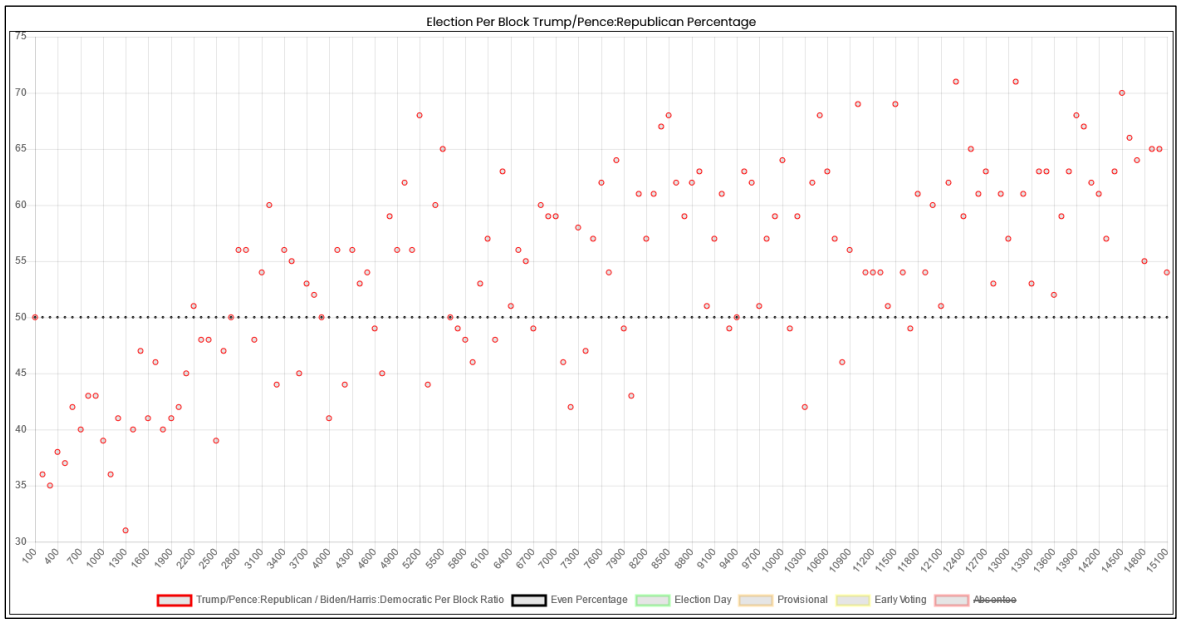
  The Ohio official results report 58,077 ballots cast for president, and the Cast Vote Record report 58.078. Thus, **the Miami County Cast Vote Record contained 1 more ballot than the official results.**

  According to the Cast Vote Record, President Trump won this county with 71.2% to Joseph Biden's 27.0%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.10 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

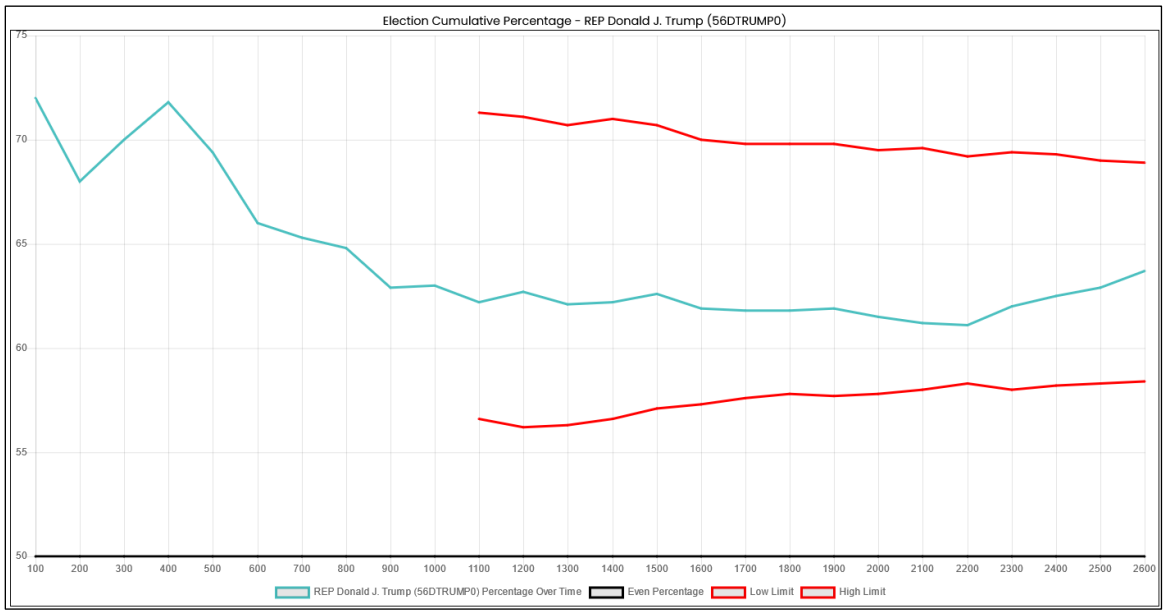


- **<u>Monroe County</u>**
  Vendor: Election Systems & Software

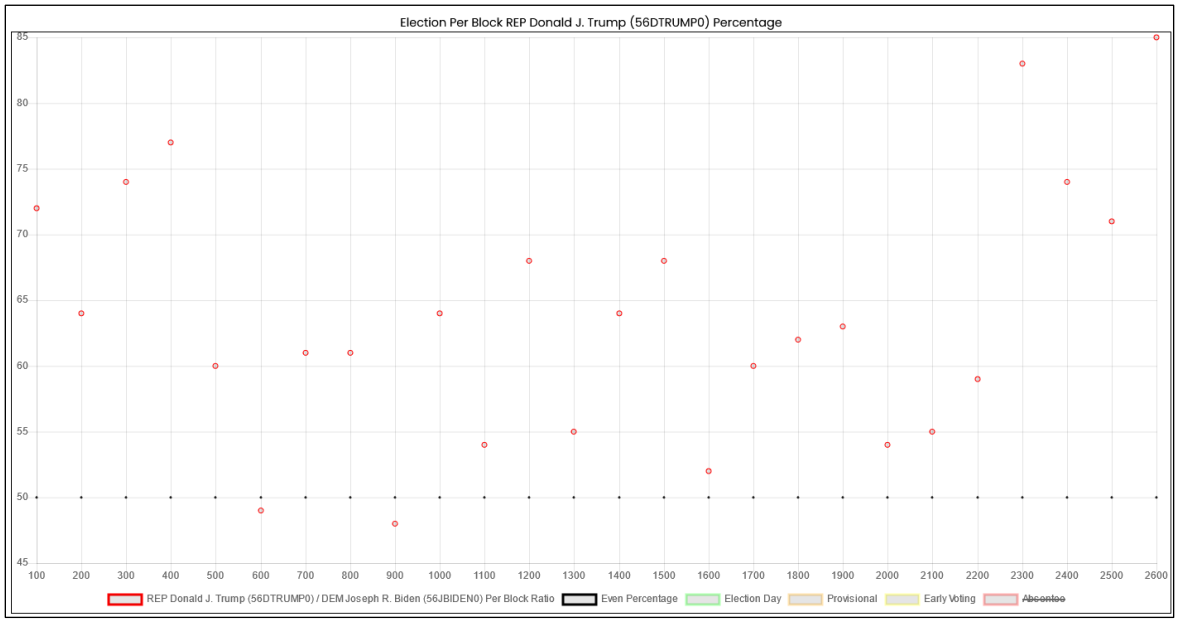
  The Ohio official results report 7,159 ballots cast for president, and the Cast Vote Record report 7,148. Thus, **11** ballots were redacted**.**

  According to the Cast Vote Record, President Trump won this county with 75.5% to Joseph Biden's 22.2%.

  Plotting the mail-in votes in sequence shows an expected random pattern, albeit with an odd rise of 1.04x in the last 300 votes.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes is mostly unremarkable. However, the first three and last three blocks are definitely outliers from the rest.



- **Pickaway County**
  Vendor: Election Systems & Software

  The Ohio official results report 28,314 ballots cast for president, and the Cast Vote Record report 28,309. Thus, **5** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 72.3% to Joseph Biden's 25.6%.

  A precinct distribution analysis of the Cast Vote Record of this county indicates that the mail-in ballots were sorted by precinct, making any pattern analysis of the percentages impossible.

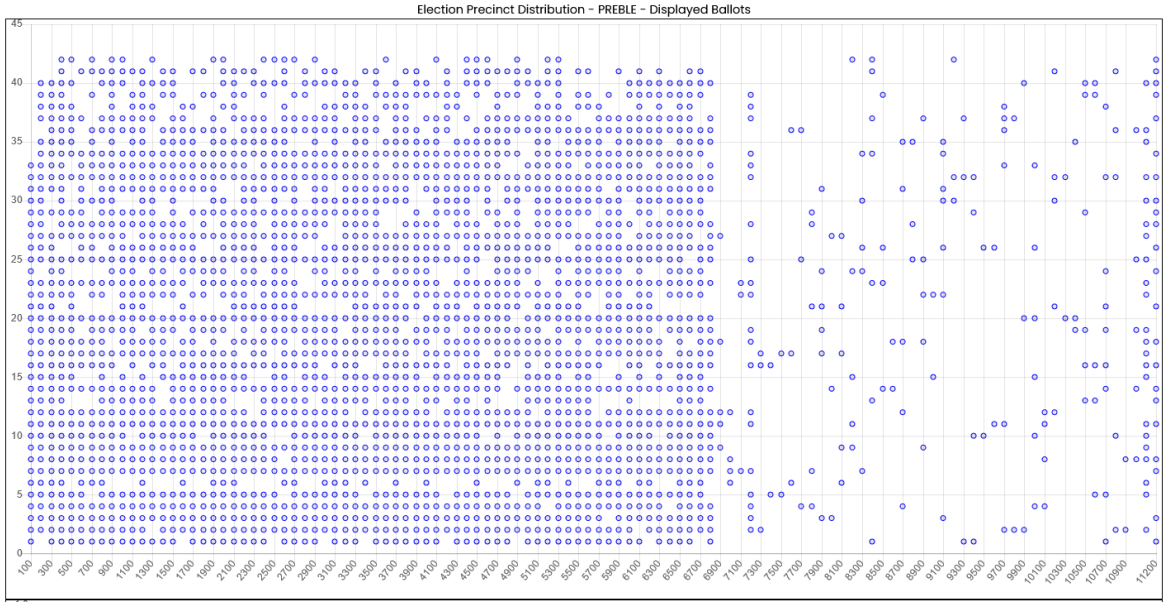
- **Preble County**
  Vendor: Election Systems & Software

  The Ohio official results report 21,840 ballots cast for president, and the Cast Vote Record report 21,809. Thus, **31** ballots were redacted.

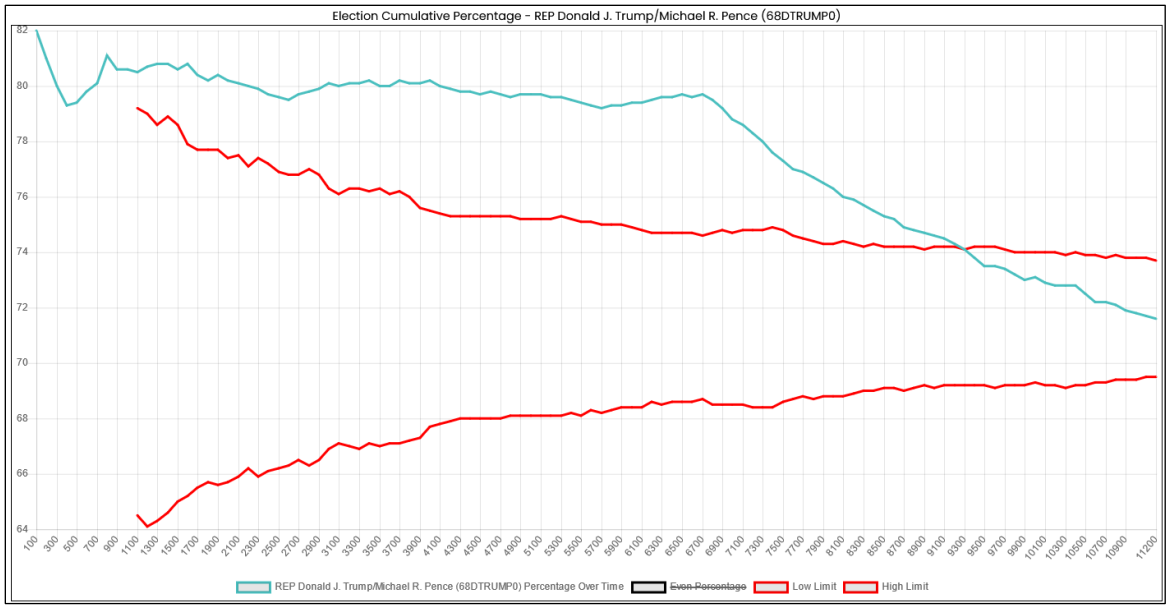
  According to the Cast Vote Record, President Trump won this county with 77.5% to Joseph Biden's 20.5%.

  Plotting the mail-in votes in sequence shows a very unusual pattern. This is caused by the fact that although they were not sorted by precinct, it seems that the ballots did undergo some sort of selection process in their counting, with a large number of mail-in ballots from 19 precincts seemingly held back to the end. This is something warranting further investigation.

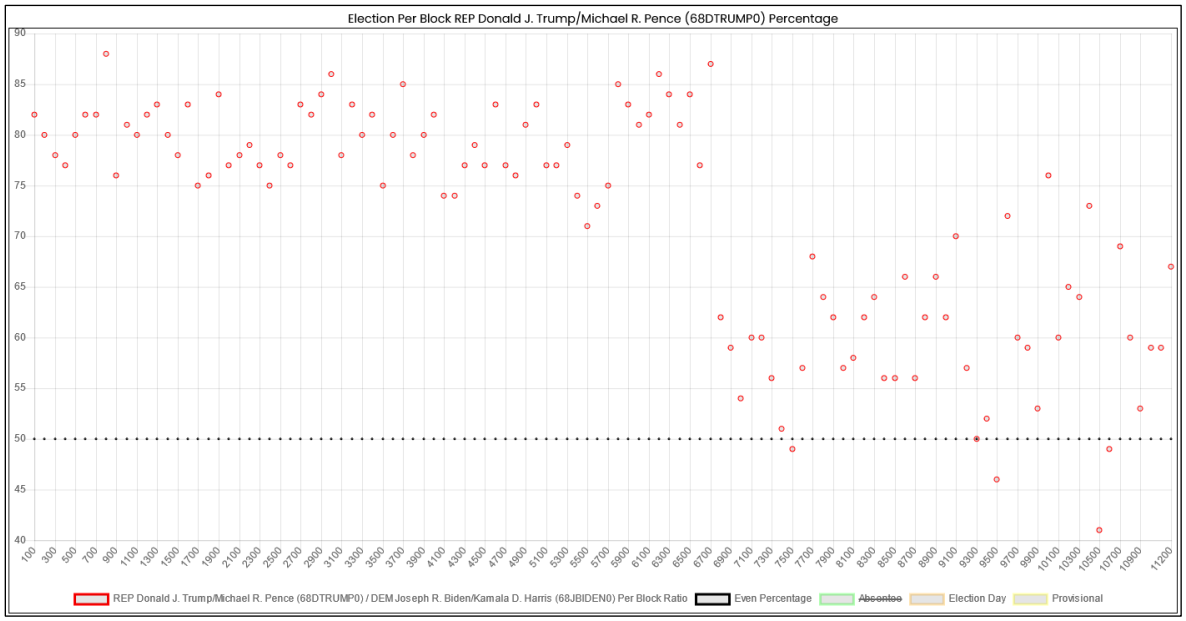
  Following is the precinct distribution of the mail-in ballots for Preble County, where each dot indicates that the precinct (arbitrarily numbered on the left) had at least one ballot in the corresponding 100 vote block (vote count shown on the bottom). This shows that in the latter part, only certain precincts were included. Note that in the last few blocks, the random pattern of precincts seems to return.



  This resulted in a very odd precinct plot, where the percentage of votes recorded for President Trump stabilizes within a very small range, then plummets once the precinct distribution changes. **The net effect of this is a back half fall of 1.11 in favor of Joseph Biden**, but the manner in which that occurred is very different from the rest of the Ohio counties detailed here.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the difference between the two sections..

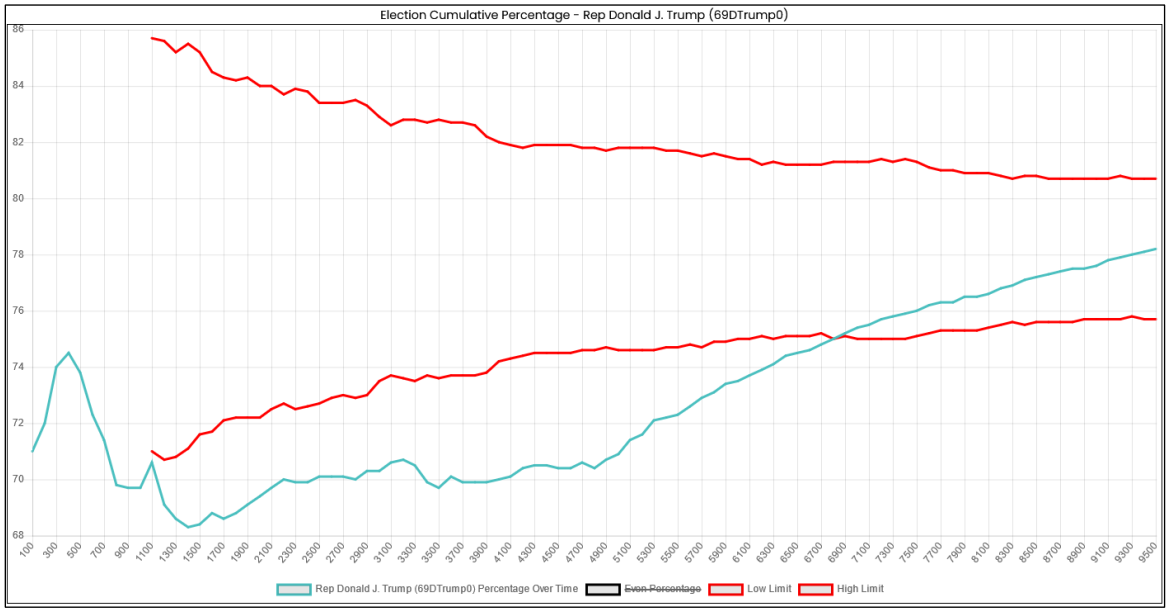


- **<u>Putnam County</u>**
  Vendor: Election Systems & Software

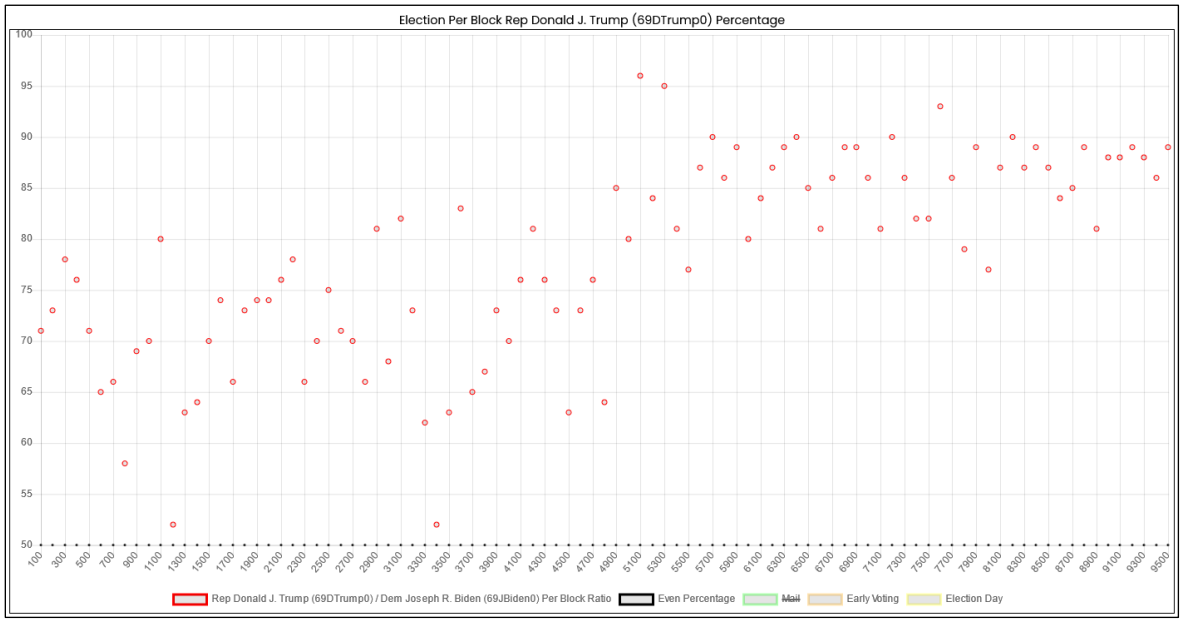
  The Ohio official results report 19,947 ballots cast for president, and the Cast Vote Record report 19,947. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 81.8% to Joseph Biden's 15.9%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.11 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds. Again, see the initial five vote blocks, which do not fit the normal pattern. An analysis of those first 5,000 ballots is indicated.

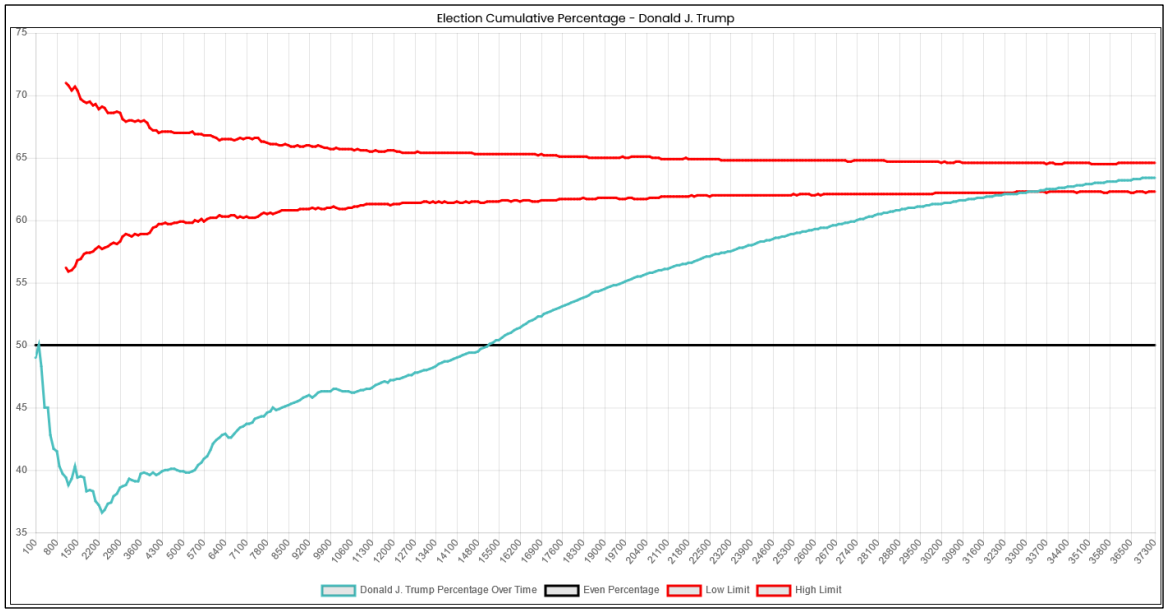


- **<u>Richland County</u>**
  Vendor: Dominion Voting Systems

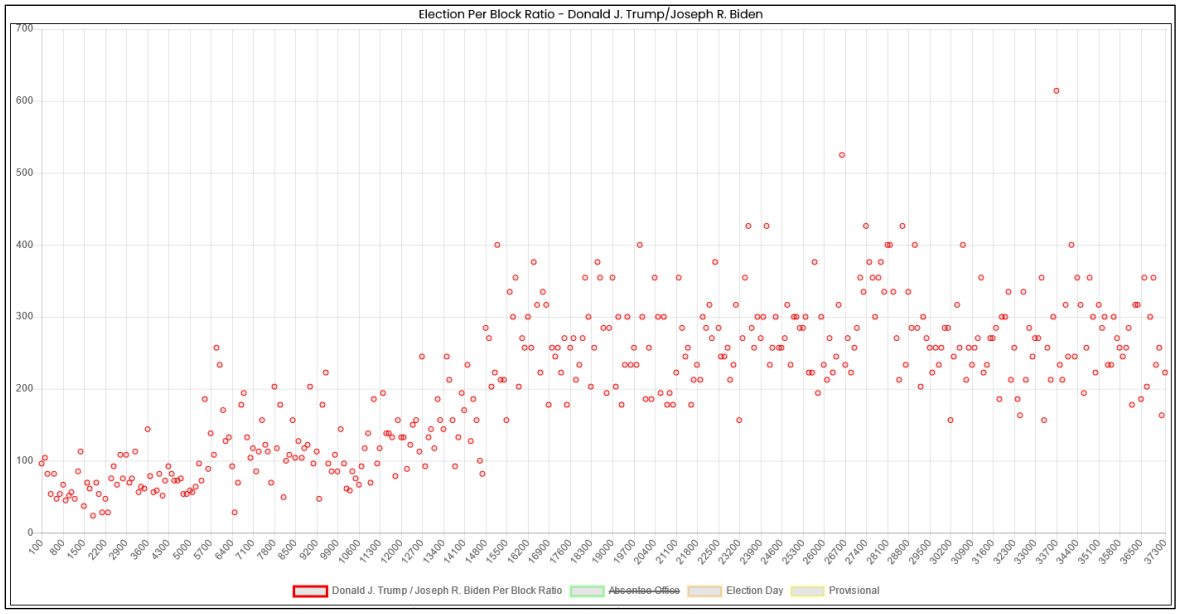
  The Ohio official results report 59,975 ballots cast for president, and the Cast Vote Record report 59,979. Thus, **the Richland County Cast Vote Record contains 4 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 69.1% to Joseph Biden's 29.4%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.17 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds up until the halfway point, when the rise decrease markedly (which can be seen as the curve flattens near the end of the above graph).

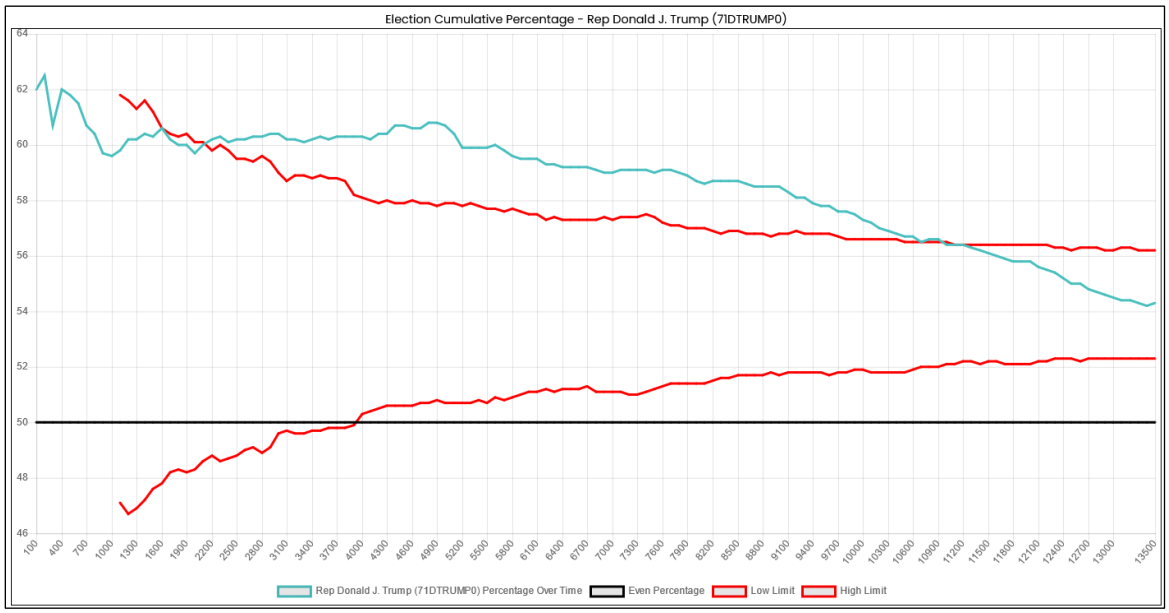


- **<u>Ross County</u>**
  Vendor: Election Systems & Software

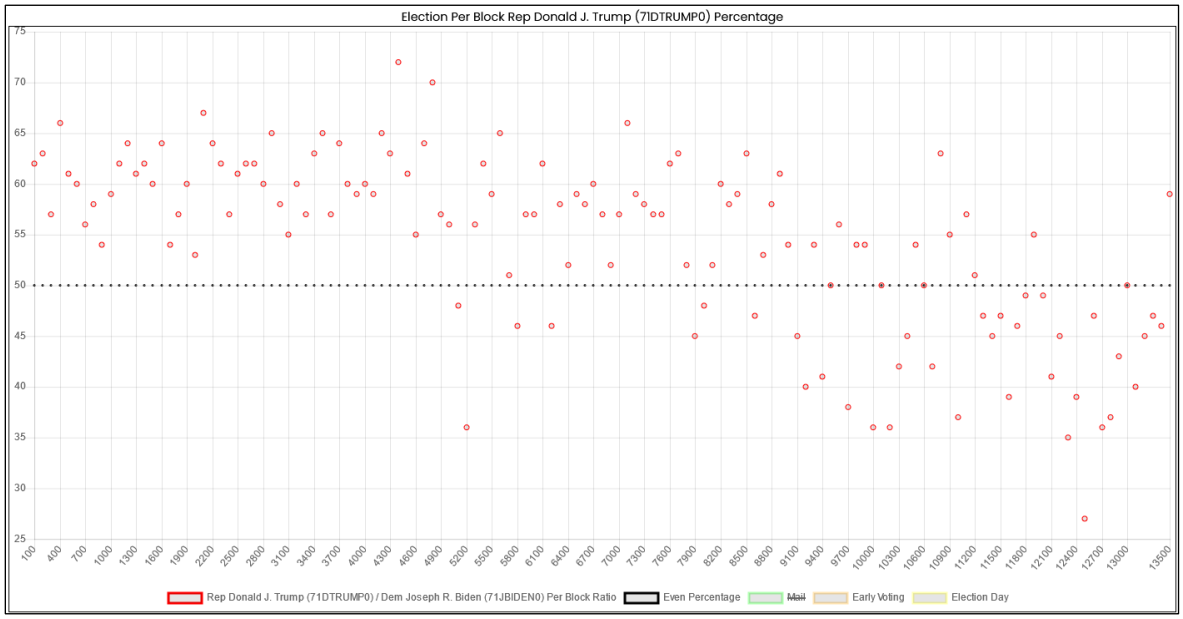
  The Ohio official results report 19,947 ballots cast for president, and the Cast Vote Record report 19,947. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 81.8% to Joseph Biden's 15.9%.

  Plotting the mail-in votes in sequence shows the Reverse Mesa Pattern with a back half fall of 1.09 in favor of Joseph Biden.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual dip as the counting proceeds.

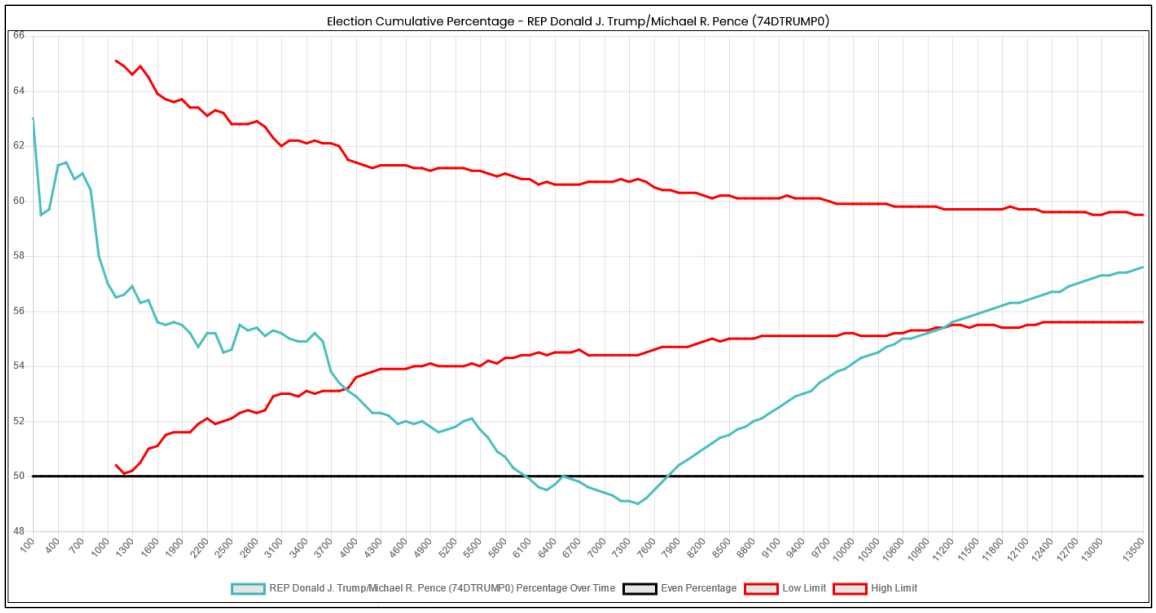


- **Seneca County**
  Vendor: Election Systems & Software

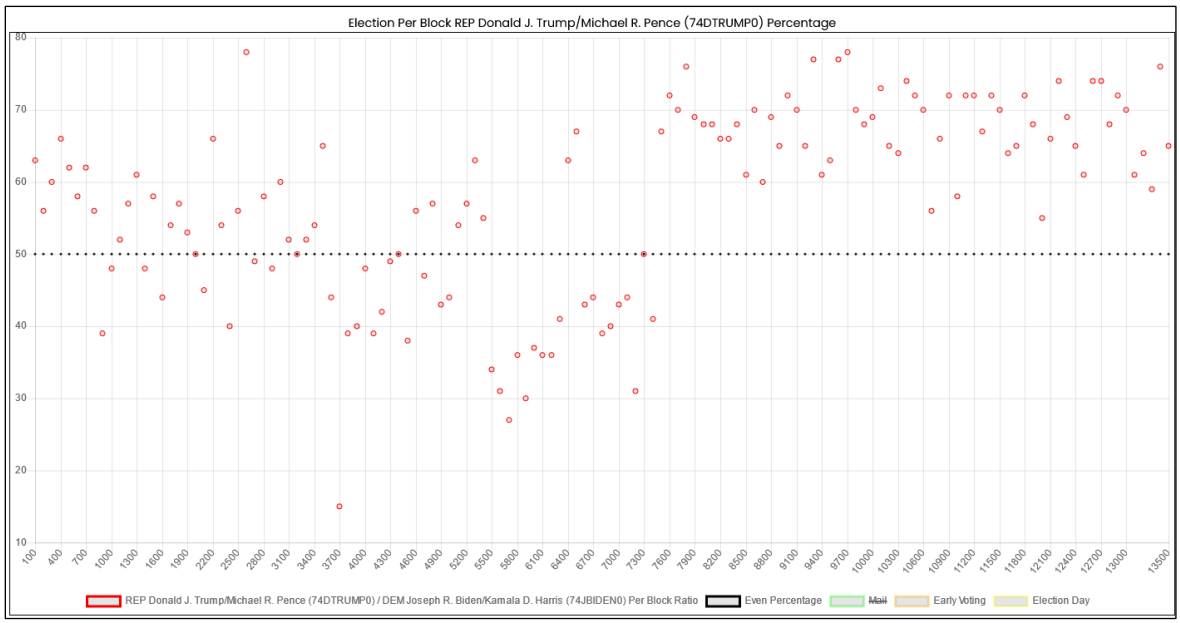
  The Ohio official results report 25,848 ballots cast for president, and the Cast Vote Record report 25,803. Thus, **45** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 65.7% to Joseph Biden's 31.8%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump. The severity of the initial fall followed by the sudden rise is a bit unusual, and the difference is not explainable through analysis of the precinct distribution.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows the initial descent, then at the end a more consistent, higher set of votes.

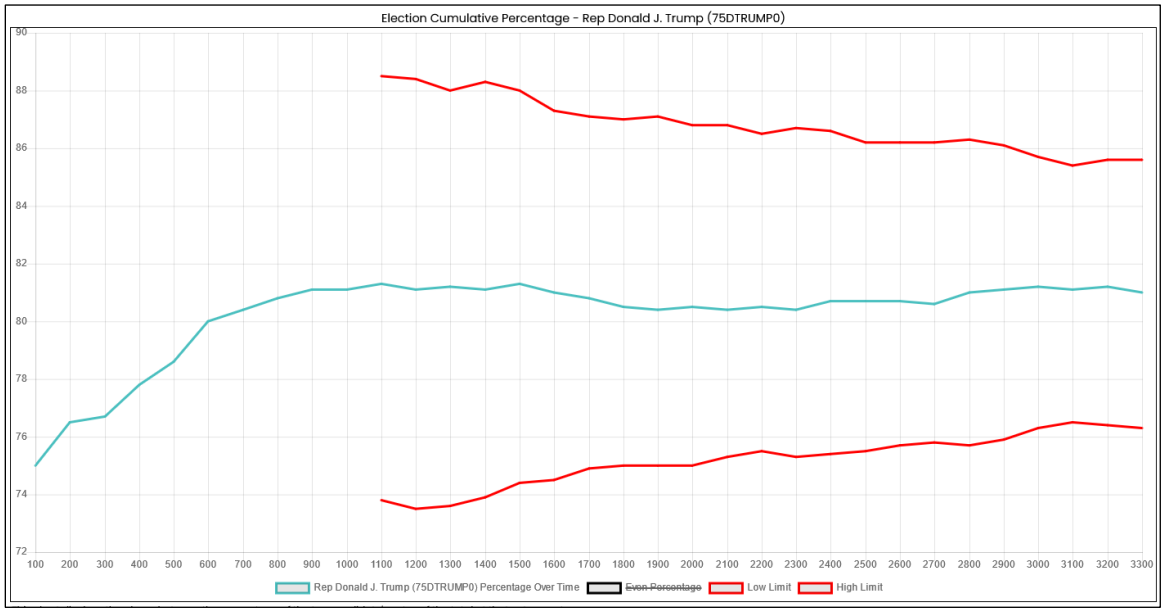


- **Shelby County**
  Vendor: Election Systems & Software

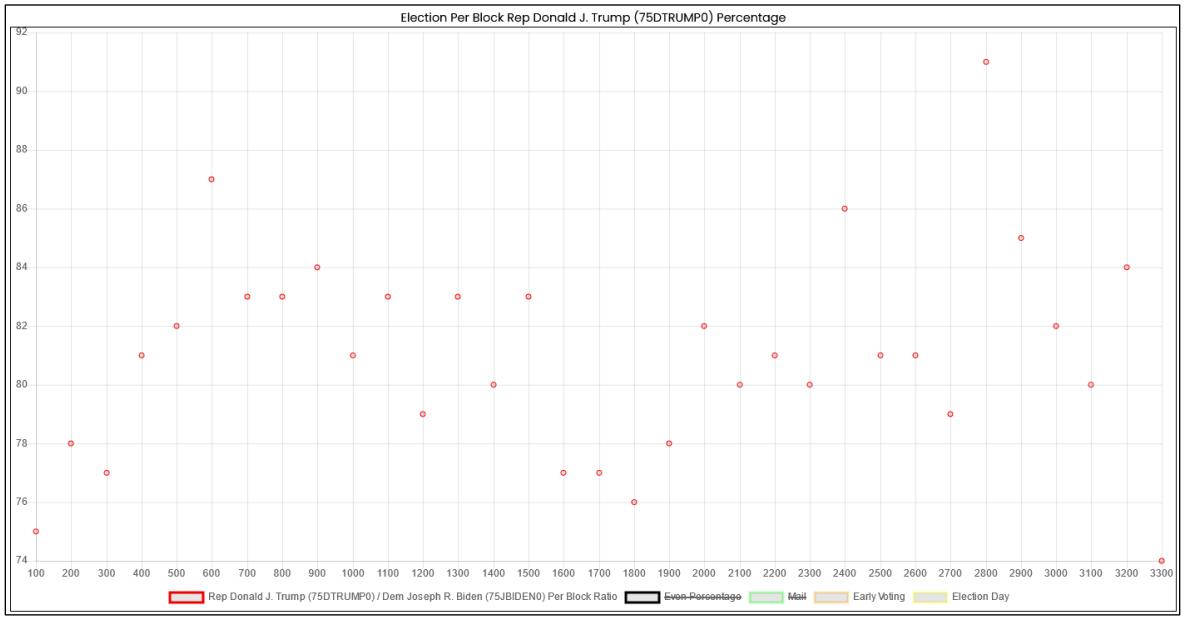
  The Ohio official results report 25,294 ballots cast for president, and the Cast Vote Record report 25,293. Thus, **1** ballot were redacted.

  According to the Cast Vote Record, President Trump won this county with 80.2% to Joseph Biden's 17.5%.

  Plotting the mail-in votes in sequence shows an expected pattern of mail-in voting.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes is unremarkable.

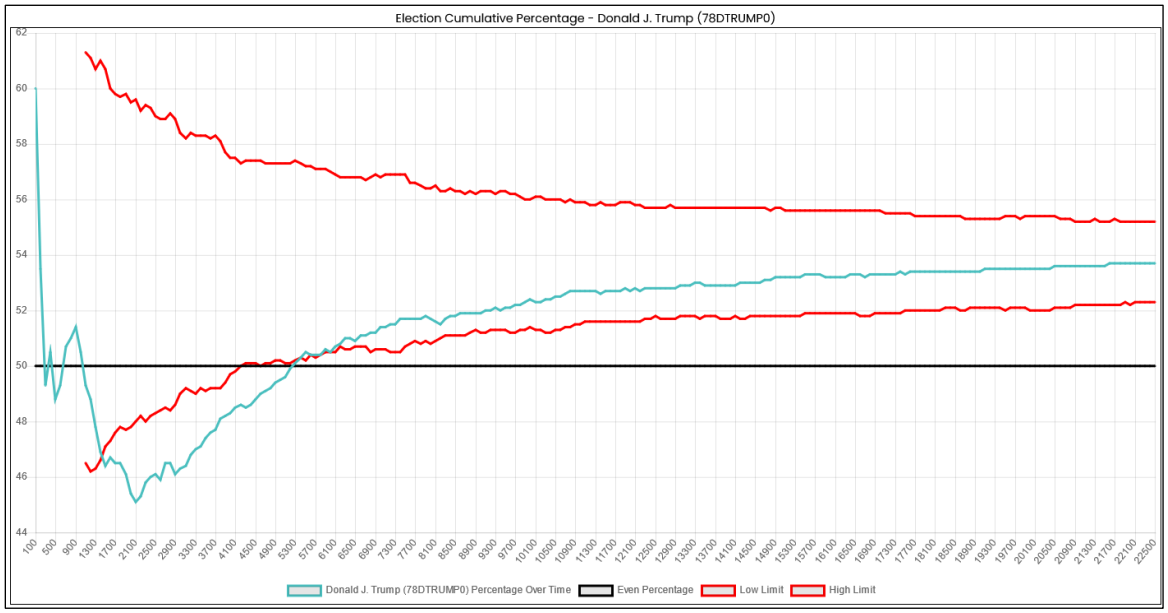


- **Trumbull County**
  Vendor: Election Systems & Software

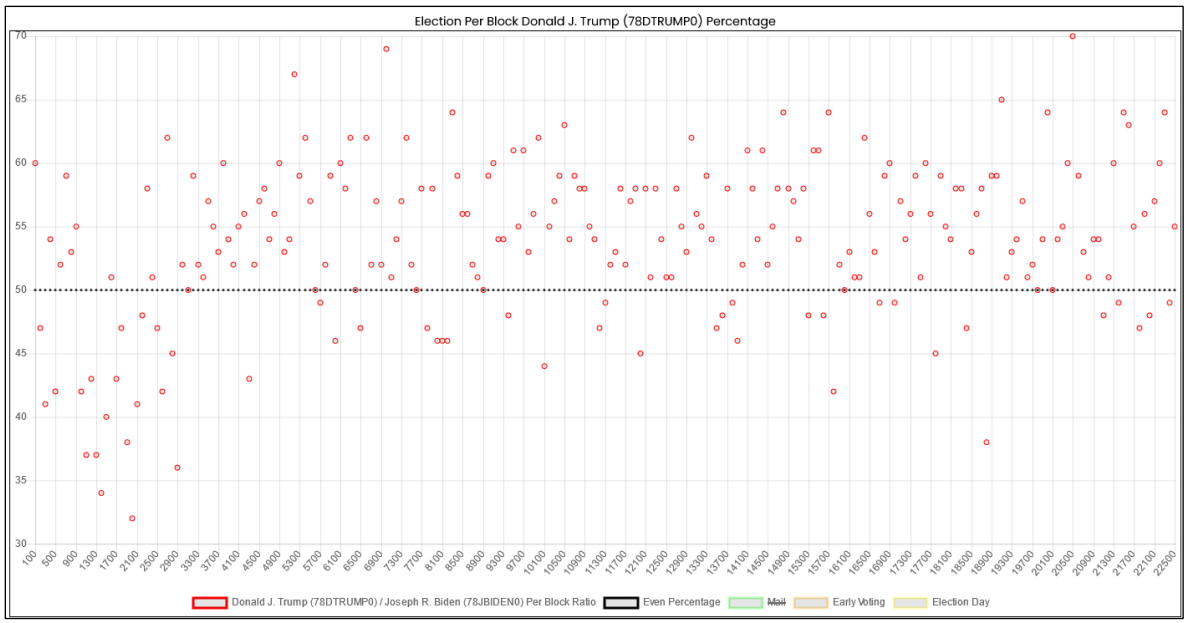
  The Ohio official results report 101,152 ballots cast for president, and the Cast Vote Record report 100,443. Thus, **709** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 54.4% to Joseph Biden's 43.8%.

  Plotting the mail-in votes in sequence shows a "mini" Mesa Pattern within the first third of the votes, followed by a small but definite rise throughout the rest of the counting. An examination of the first 2,900 mail-in ballots processed is recommended.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the markedly pro-Biden blocks within the first 2,900 votes, then a normal random pattern afterwards.

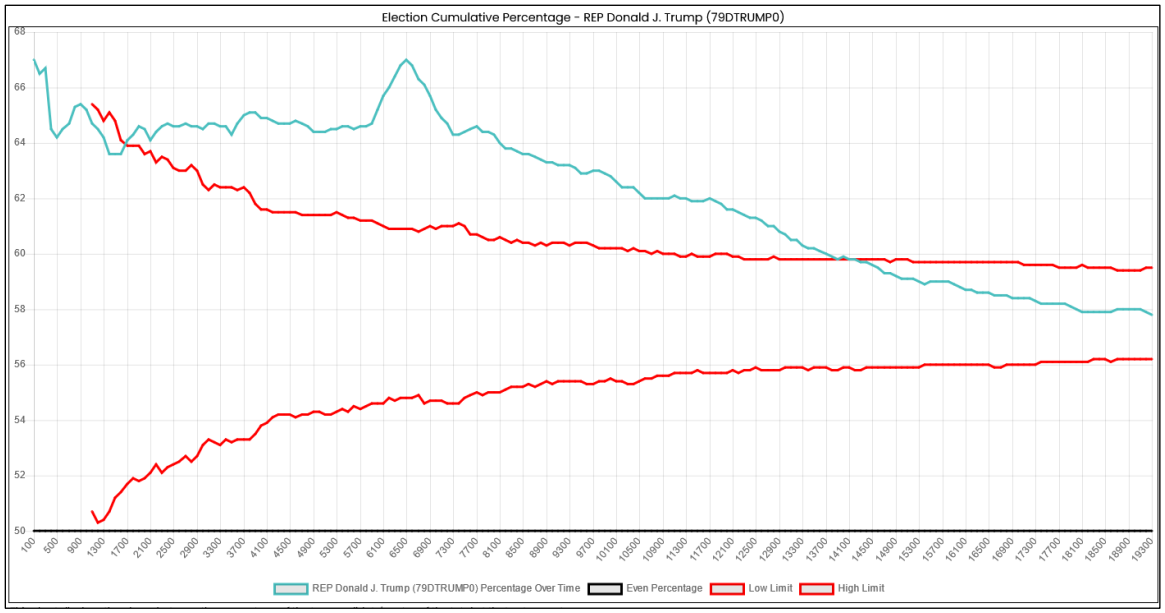


- **<u>Tuscarawas County</u>**
  Vendor: Election Systems & Software

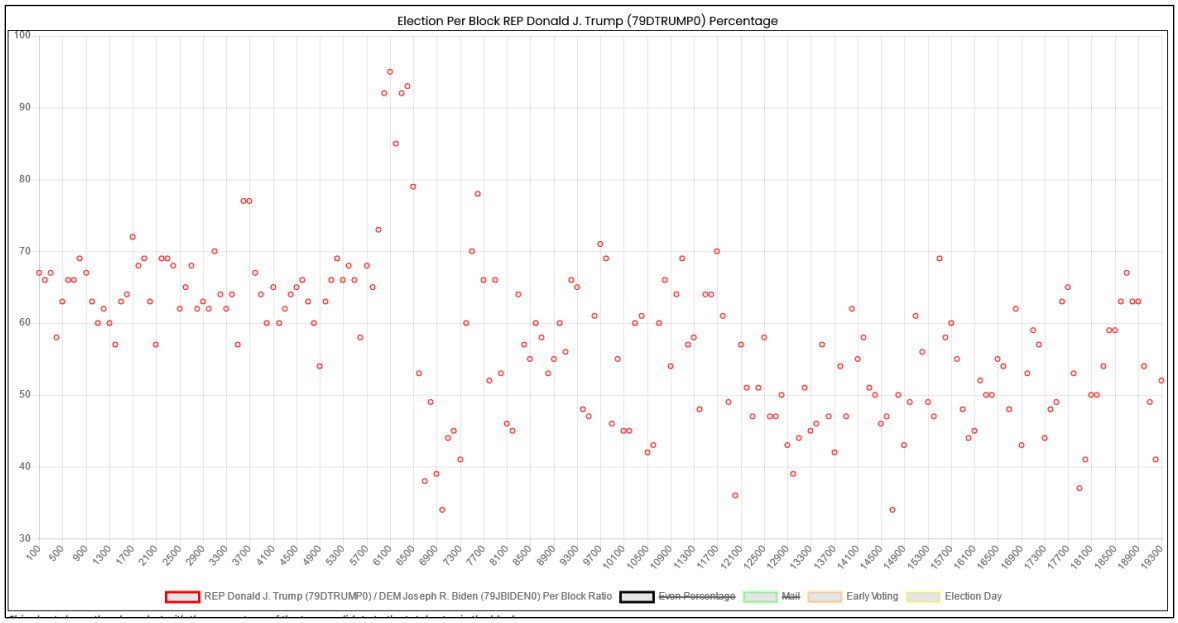
  The Ohio official results report 44,087 ballots cast for president, and the Cast Vote Record report 44,002. Thus, 85 ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 68.5% to Joseph Biden's 29.0%.

  Plotting the mail-in votes in sequence shows a Reverse Mesa Pattern with a back half dip of 1.09 in favor of Joseph Biden. The odd "shark fin" is caused, however, by what looks like a group of selective precincts being counted at that time. (See below for more information).



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows the gradual fall, but also shows 7 very pro-Trump blocks followed by 8 very pro-Biden blocks, then a return to the general downward pattern. This is difficult to explain organically, and the mail-in ballots in the sequence between 6,000 and 7,300 should be examined.

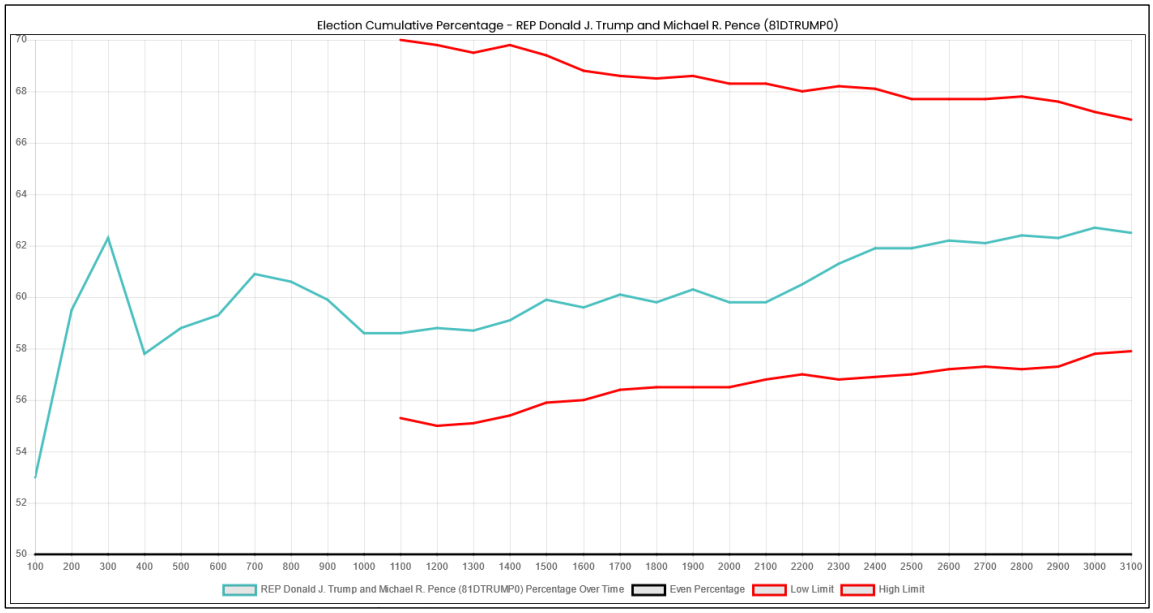


- **<u>Van Wert County</u>**
  Vendor: Election Systems & Software

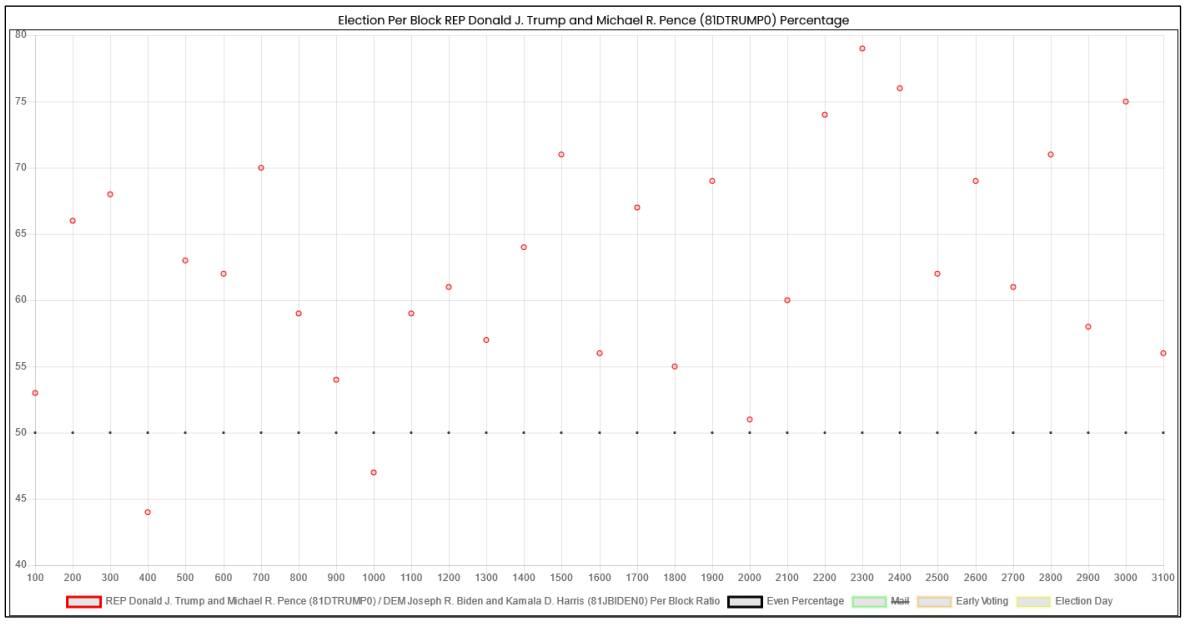
  The Ohio official results report 14,994 ballots cast for president, and the Cast Vote Record report 14,960. Thus, **34** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 77.4% to Joseph Biden's 20.4%.

  Plotting the mail-in votes in sequence shows something like the Mesa Pattern, but with only a 1.04 back half rise.



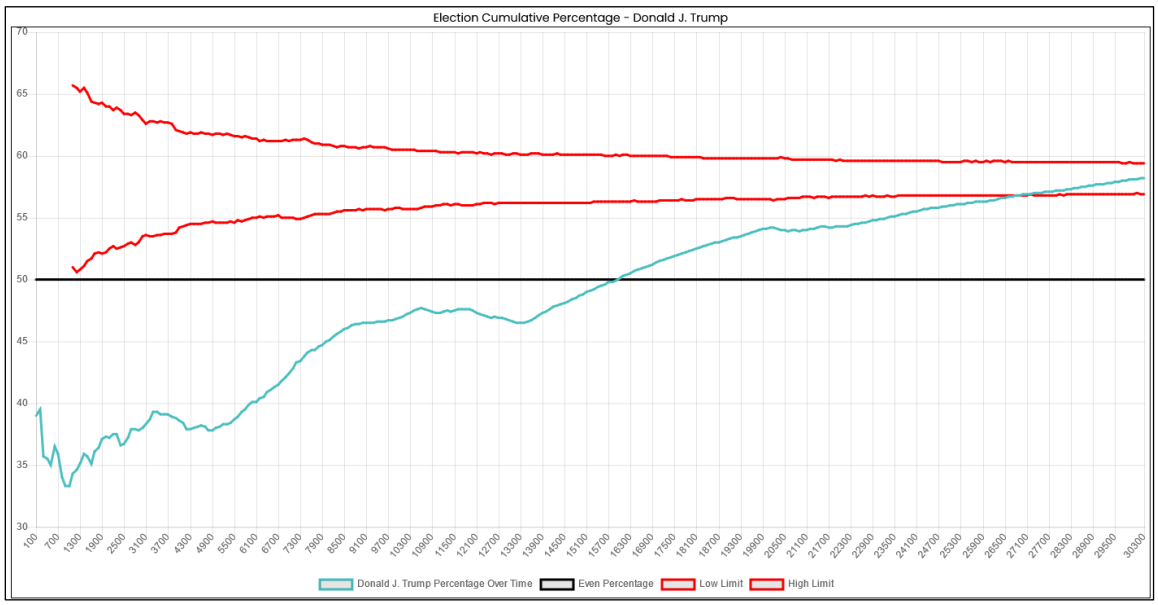
  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows the slight upward trend towards President Trump.



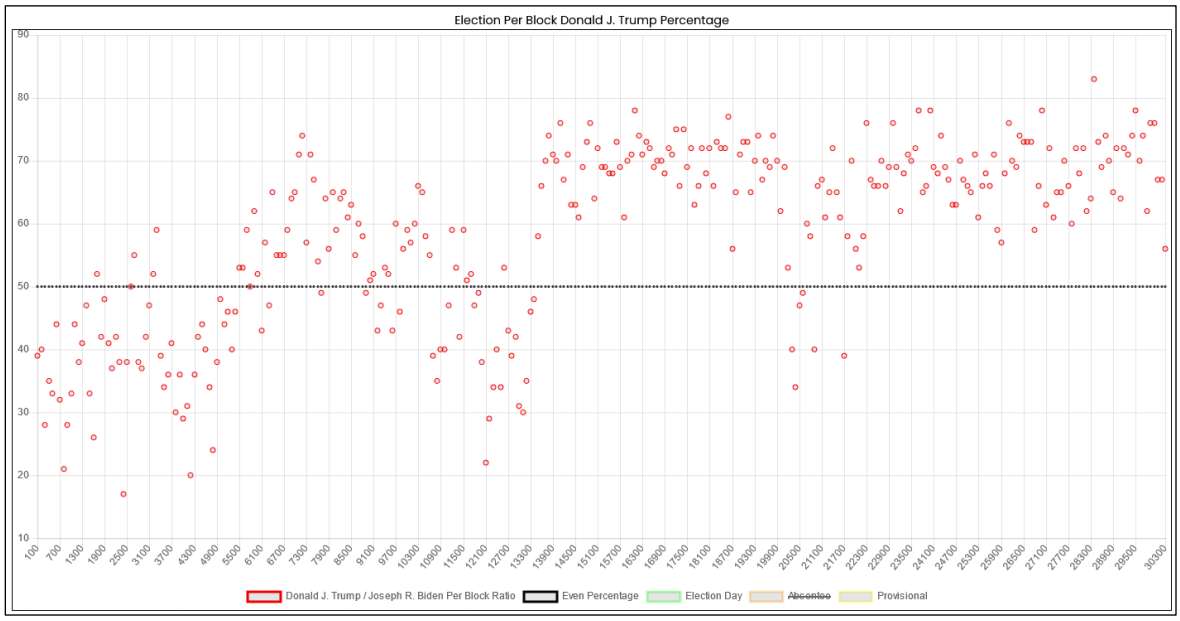
- **Wayne County**
  Vendor: Dominion Voting Systems

  The Ohio official results report 54,283 ballots cast for president, and the Cast Vote Record report 54,314. Thus, **the Wayne County Cast Vote Record contains 31 more ballots than the official results.**

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.19 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. However, there are several points where what look like downward corrections appear.

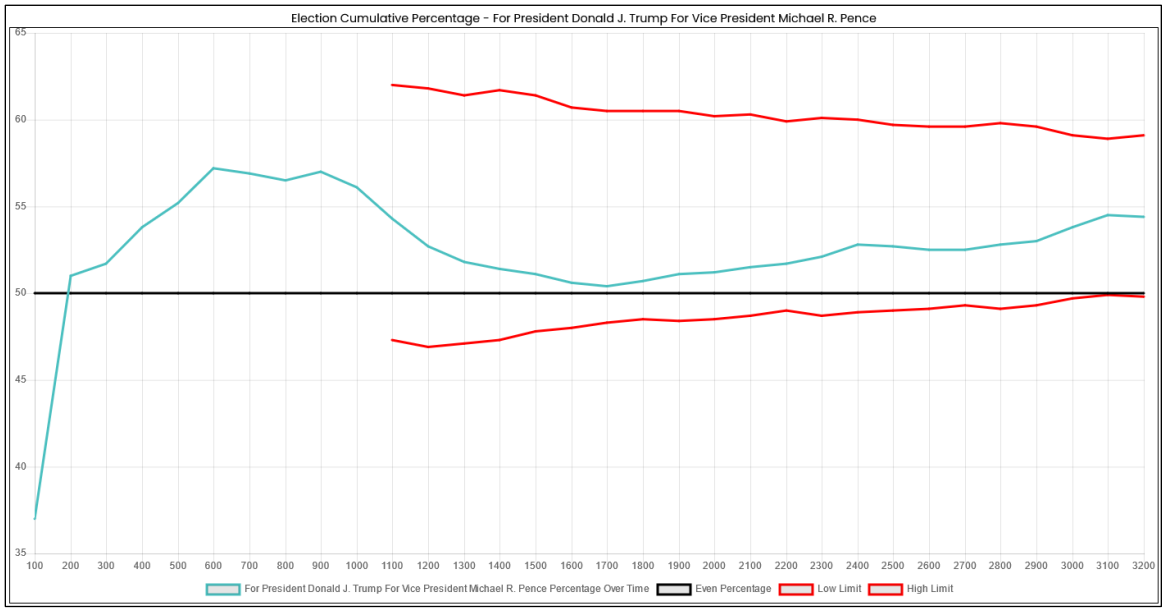


- **<u>Williams County</u>**
  Vendor Hart Intercivic

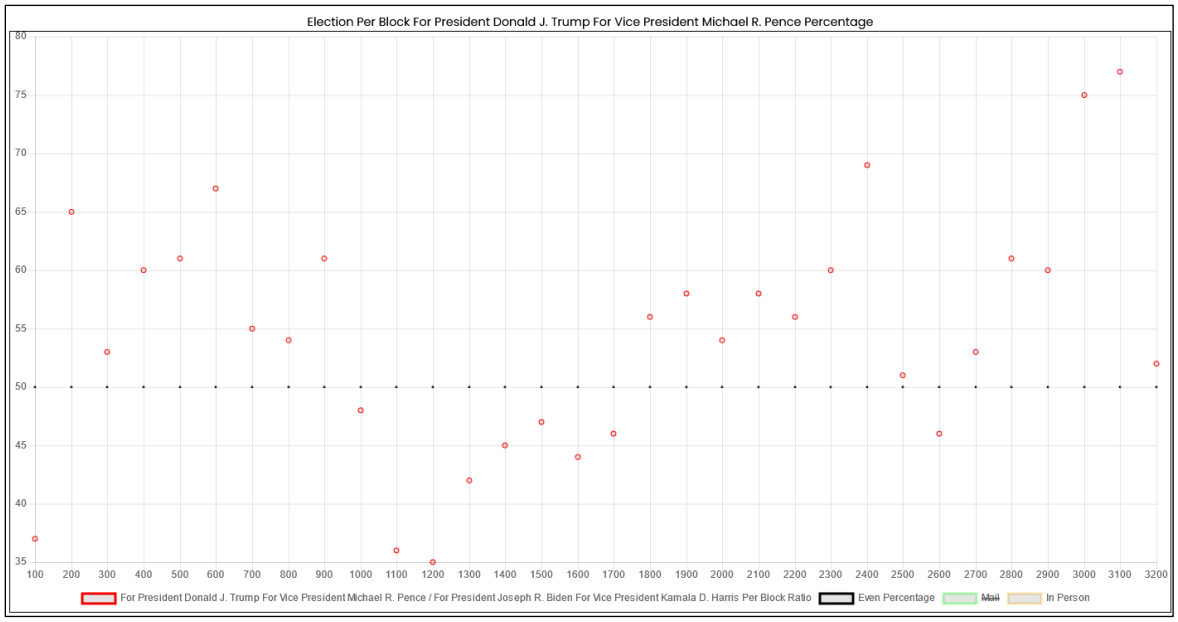
  The Ohio official results report 18,651 ballots cast for president, and the Cast Vote Record report 18,660. Thus, **the Williams County CVR contains 9 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county with 72.1% to Joseph Biden's 28.0%.

  Plotting the mail-in votes in sequence shows something like the Mesa Pattern with a back half rise of 1.08 in favor of President Trump. The percentage plot does fall within the red cone. The beginning of the percentage plot is unusually high, peaking over the eventual final percentage before coming back down.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows a gradual fall and then a gradual rise as the counting continues..

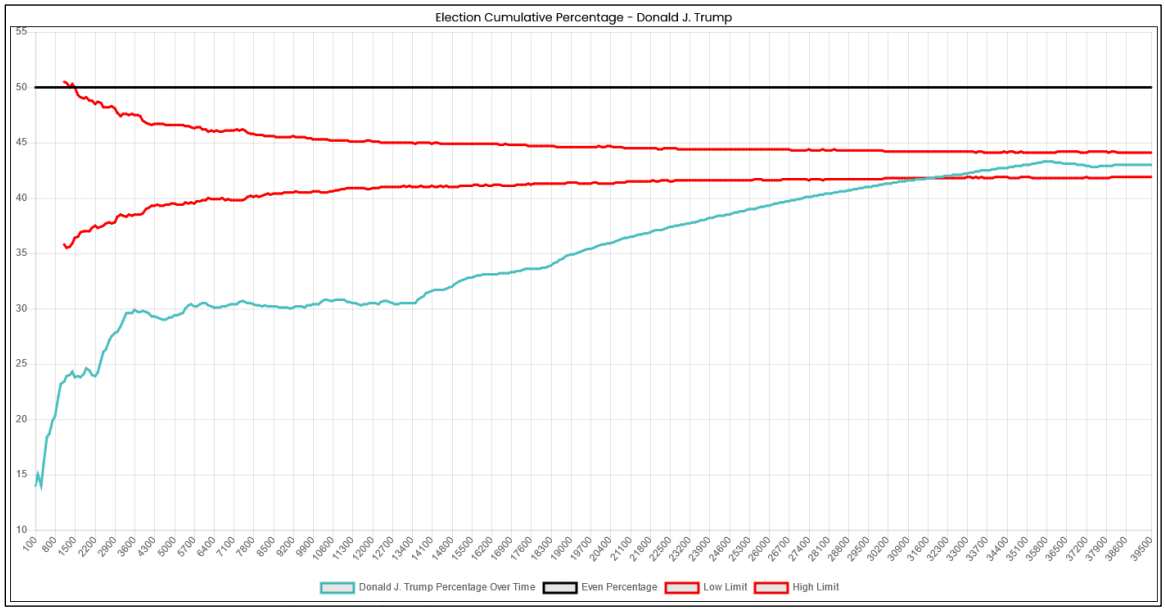


- **<u>Wood County</u>**
  Vendor Dominion voting Systems

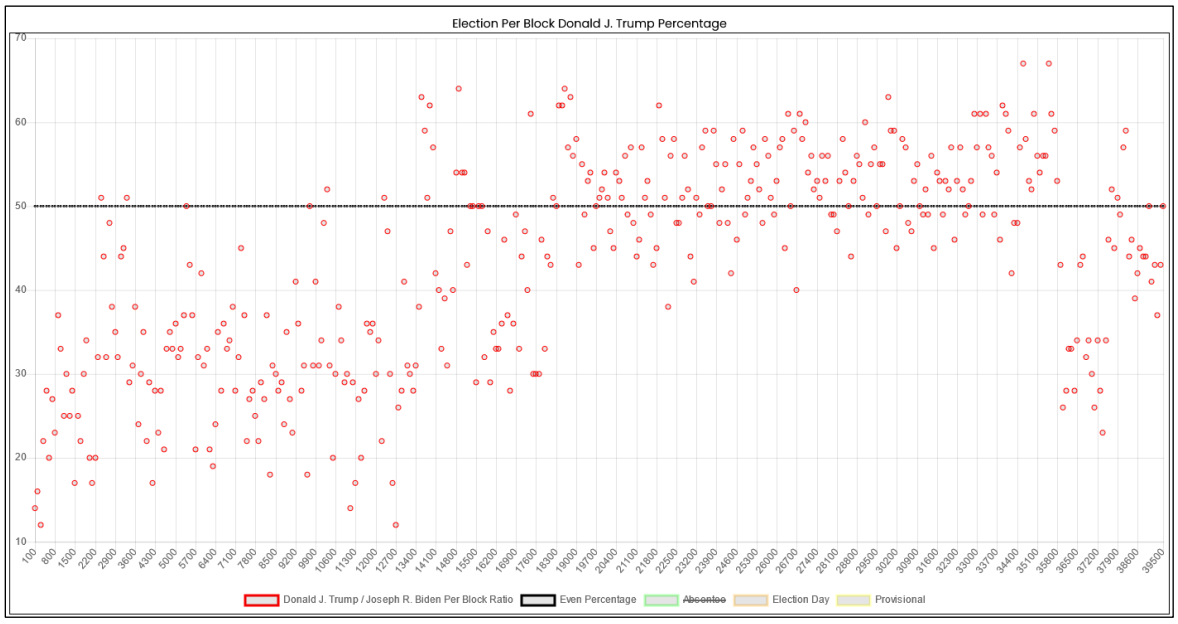
  The Ohio official results report 67,600 ballots cast for president, and the Cast Vote Record report 67,600. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 52.9% to Joseph Biden's 45.3%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.21 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows a gradual fall and then a gradual rise as the counting continues. Note the change at the very end towards more Biden-heavy blocks.

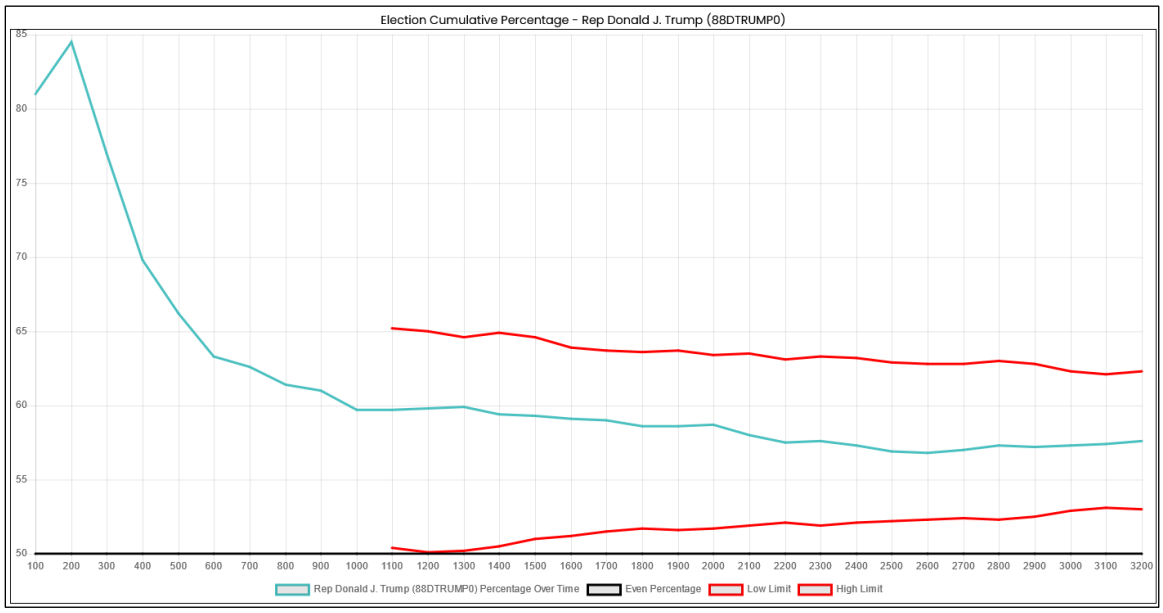


- **<u>Wyandot County</u>**
  Vendor Election Systems & Software

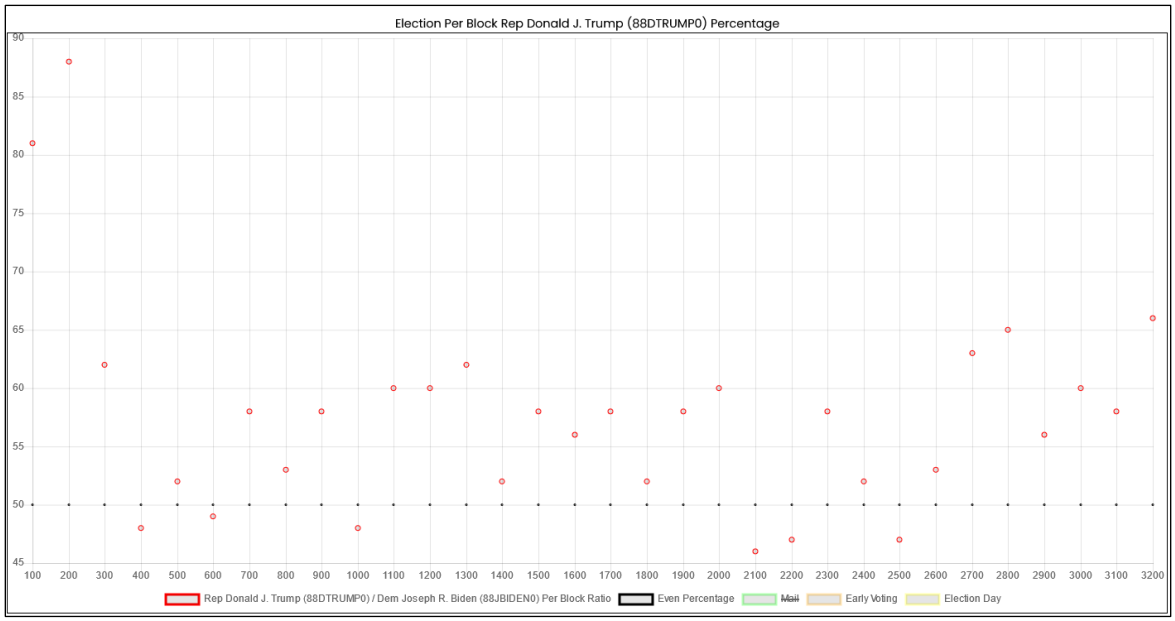
  The Ohio official results report 11,403 ballots cast for president, and the Cast Vote Record report 11,386. Thus, **17** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county with 73.8% to Joseph Biden's 23.8%.

  Plotting the mail-in votes in sequence shows a very large initial spike in favor of President Trump which then settles down into a normal pattern.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes Shows that the first 200 votes (the first two blocks) were very highly in favor of President Trump, after which there is a largely random-looking pattern. The last 6 blocks do show an apparent rise..



COUNTY SUMMARY ANALYSIS

The following shows each county for which a Cast Vote Record was received, and a score based upon three criteria.

19. The County shows the visual aspect of the Mesa Pattern (or its reverse) – 1 point.
20. The County has a back half rise (or fall) greater than or equal to 1.1 (rounded) – 1 point.
21. The percentage plot of President Trump's votes exceeds the range of possible values indicated by the red cone – 1 point.

While any score above zero indicates machine manipulation, the actual score may correlate to the severity of the manipulation.

County	Vendor	Manipulation Score
Allen	Election Systems & Software	3
Ashtabula	Election Systems & Software	3
Auglaize	Election Systems & Software	2
Belmont	Dominion Voting Systems	3
Butler	Dominion Voting Systems	3
Champaign	Clear Ballot	0
Clark	Clear Ballot	3
Clermont	Election Systems & Software	3
Clinton	Clear Ballot	2
Cuyahoga	Election Systems & Software	Cannot Be Determined
Darke	Election Systems & Software	2
Erie	Election Systems & Software	Cannot Be Determined
Fayette	Election Systems & Software	0
Franklin	Election Systems & Software	Cannot Be Determined
Gallia	Clear Ballot	Cannot Be Determined
Greene	Dominion Voting Systems	1
Hamilton	Hart InterCivic	Cannot Be Determined
Hancock	Dominion Voting Systems	3
Hardin	Dominion Voting Systems	Cannot Be Determined
Harrison	Dominion Voting Systems	3
Highland	Clear Ballot	2
Hocking	Clear Ballot	2
Logan	Election Systems & Software	3
Miami	Clear Ballot	3
Monroe	Election Systems & Software	0
Pickaway	Election Systems & Software	Cannot Be Determined
Preble	Election Systems & Software	3
Putnam	Election Systems & Software	3
Richland	Dominion Voting Systems	3
Ross	Election Systems & Software	3
Seneca	Election Systems & Software	3
Shelby	Election Systems & Software	0
Trumbull	Election Systems & Software	1
Tuscarawas	Election Systems & Software	3
Van Wert	Election Systems & Software	1
Wayne	Dominion Voting Systems	3
Williams	Hart InterCivic	1

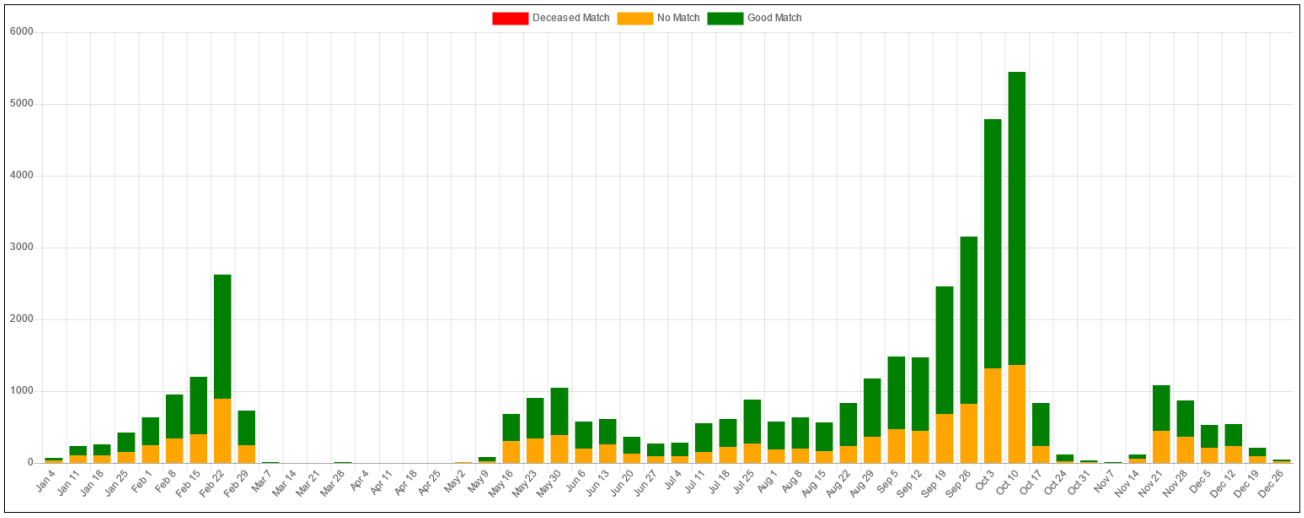
Wood	Dominion Voting Systems	3
Wyandot	Election Systems & Software	0

18 counties have the highest manipulation score of 3.
5 counties have a manipulation score of 2.
4 counties have a manipulation score of 1.
5 counties have a manipulation score of 0 (no pattern observed)

STATE HAVV LOOKUP ANALYSIS

Ohio's HAVV lookup statistics (as provided by the Social Security Administration) give the appearance that this program is being abused to register unqualified voters. A total of 41,090 queries were made by the state during 2020, and 13,048 of them were rejected as "no match". 11 of the queries were rejected as "Single Match Deceased". The HAVV queries practically disappeared in March and April, then peaked on the week of October 10th, with 5,452 queries being made that week alone, with 1,366 (25.1%) being rejected as "no match". Lookups can and do lag behind the actual date of application.

Remembering that this type of voter qualification is intended to be used for those without proper identification, all of these numbers seem extremely high, and should be further investigated.



ELECTION NIGHT RESULT ANOMALIES

This table lists Ohio counties which experienced election night reporting anomalies. The data is taken from the Edison/New York Times election night reporting results from the 2020 General Election.

There are three different vote totals reported for each candidate in the election night reporting, the total votes, the election day votes, and the absentee votes. If there are votes removed from the election day or absentee and there is not a corresponding drop in total votes, that means that vote counts were shifted from election day to absentee or vice versa.

County	Timestamp	Candidate	Number of Votes Removed	Type of Votes Removed
ASHLAND	11/4/2020 3:29	Biden	1,381	Election Day Votes
CUYAHOGA	11/4/2020 3:29	Trump	66,477	Election Day Votes
CUYAHOGA	11/4/2020 3:29	Biden	71,541	Election Day Votes
HIGHLAND	11/4/2020 3:29	Biden	1,609	Election Day Votes
MIAMI	11/3/2020 22:51	Trump	13,437	Election Day Votes
MIAMI	11/3/2020 22:51	Biden	10,600	Election Day Votes

MORGAN	11/3/2020 22:51	Biden	99	Total Votes
MORGAN	11/3/2020 22:51	Biden	99	Election Day Votes
PORTAGE	11/3/2020 22:51	Trump	1,055	Election Day Votes
PORTAGE	11/3/2020 22:51	Biden	15,669	Election Day Votes
SANDUSKY	11/24/2020 15:10	Trump	8,420	Election Day Votes
SANDUSKY	11/24/2020 15:10	Biden	7,423	Election Day Votes
SHELBY	11/3/2020 22:51	Trump	9,014	Election Day Votes
SHELBY	11/3/2020 22:51	Biden	3,406	Election Day Votes
WAYNE	11/10/2020 21:59	Biden	7,700	Total Votes
WAYNE	11/10/2020 21:59	Trump	33,618	Mail Votes
WAYNE	11/10/2020 21:59	Biden	24,040	Mail Votes

CONSECUTIVE VOTES FOR CANDIDATES WITH LESS THAN 1% PROBABILITY

The mail-in votes show the following number of consecutive votes for the indicated candidate, and the likelihood of that many consecutive votes occurring given the final percentage breakdown of the votes. The existence of so many of these very improbable runs is an additional indication of the algorithm used to affect the vote results and would be expected given the smoothing sorting of votes indicated by the Mesa Pattern.

Counties not listed did not have any vote runs which fell below the 1% probability or exhibited precinct level sorting.

Allen

Consecutive votes for President Trump		
Run	**#**	
30	3	Very Unlikely (0.1-1%)

Ashtabula

Consecutive Votes for Joseph Biden		
Run	**#**	
17	2	Extremely Unlikely (<0.1%)
20	2	Extremely Unlikely (<0.1%)

Belmont

Consecutive Votes for Joseph Biden		
Run	**#**	
13	4	Very Unlikely (0.1-1%)

Butler

Consecutive votes for President Trump		
Run	#	
21	2	Very Unlikely (0.1-1%)
26	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
26	2	Very Unlikely (0.1-1%)
27	2	Very Unlikely (0.1-1%)

Clark

Consecutive Votes for Joseph Biden		
Run	#	
24	2	Very Unlikely (0.1-1%)
30	2	Extremely Unlikely (<0.1%)

Clermont

Consecutive Votes for Joseph Biden		
Run	#	
20	2	Extremely Unlikely (<0.1%)
21	2	Extremely Unlikely (<0.1%)

Cuyahoga

Consecutive votes for President Trump		
Run	#	
16	32	Very Unlikely (0.1-1%)
17	23	Very Unlikely (0.1-1%)
18	15	Very Unlikely (0.1-1%)
19	5	Very Unlikely (0.1-1%)
20	5	Very Unlikely (0.1-1%)
21	6	Extremely Unlikely (<0.1%)
22	4	Extremely Unlikely (<0.1%)
23	2	Extremely Unlikely (<0.1%)
24	3	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
25	47	Very Unlikely (0.1-1%)
26	49	Very Unlikely (0.1-1%)
27	36	Very Unlikely (0.1-1%)
28	22	Very Unlikely (0.1-1%)
29	23	Very Unlikely (0.1-1%)
30	24	Extremely Unlikely (<0.1%)
31	20	Extremely Unlikely (<0.1%)
32	14	Extremely Unlikely (<0.1%)
33	18	Extremely Unlikely (<0.1%)
34	16	Extremely Unlikely (<0.1%)
35	17	Extremely Unlikely (<0.1%)
36	22	Extremely Unlikely (<0.1%)
37	14	Extremely Unlikely (<0.1%)
38	13	Extremely Unlikely (<0.1%)
39	11	Extremely Unlikely (<0.1%)
40	10	Extremely Unlikely (<0.1%)
41	15	Extremely Unlikely (<0.1%)
42	7	Extremely Unlikely (<0.1%)
43	12	Extremely Unlikely (<0.1%)
44	5	Extremely Unlikely (<0.1%)
45	9	Extremely Unlikely (<0.1%)
46	6	Extremely Unlikely (<0.1%)

47	8	Extremely Unlikely (<0.1%)
48	3	Extremely Unlikely (<0.1%)
49	4	Extremely Unlikely (<0.1%)
50	9	Extremely Unlikely (<0.1%)
51	3	Extremely Unlikely (<0.1%)
52	4	Extremely Unlikely (<0.1%)
53	3	Extremely Unlikely (<0.1%)
54	6	Extremely Unlikely (<0.1%)
55	2	Extremely Unlikely (<0.1%)
56	8	Extremely Unlikely (<0.1%)
57	5	Extremely Unlikely (<0.1%)
58	2	Extremely Unlikely (<0.1%)
59	5	Extremely Unlikely (<0.1%)
60	2	Extremely Unlikely (<0.1%)
64	5	Extremely Unlikely (<0.1%)
66	3	Extremely Unlikely (<0.1%)
67	4	Extremely Unlikely (<0.1%)
74	3	Extremely Unlikely (<0.1%)
75	2	Extremely Unlikely (<0.1%)
79	2	Extremely Unlikely (<0.1%)
84	2	Extremely Unlikely (<0.1%)
90	2	Extremely Unlikely (<0.1%)

Gallia

Consecutive Votes for Joseph Biden		
Run	**#**	
12	2	Very Unlikely (0.1-1%)

Hancock

Consecutive Votes for Joseph Biden		
Run	**#**	
14	4	Very Unlikely (0.1-1%)
15	2	Very Unlikely (0.1-1%)
16	2	Very Unlikely (0.1-1%)
17	2	Very Unlikely (0.1-1%)
18	3	Extremely Unlikely (<0.1%)
25	2	Extremely Unlikely (<0.1%)
28	2	Extremely Unlikely (<0.1%)
33	2	Extremely Unlikely (<0.1%)

Hardin

Consecutive Votes for Joseph Biden		
Run	**#**	
15	2	Very Unlikely (0.1-1%)

Logan

Consecutive Votes for Joseph Biden		
Run	#	
11	2	Very Unlikely (0.1-1%)
15	2	Extremely Unlikely (<0.1%)
16	2	Extremely Unlikely (<0.1%)
17	3	Extremely Unlikely (<0.1%)
19	2	Extremely Unlikely (<0.1%)
23	2	Extremely Unlikely (<0.1%)

Miami

Consecutive Votes for Joseph Biden		
Run	#	
18	2	Very Unlikely (0.1-1%)

Richland

Consecutive Votes for Joseph Biden		
Run	#	
15	2	Very Unlikely (0.1-1%)

Seneca

Consecutive Votes for Joseph Biden		
Run	#	
17	2	Very Unlikely (0.1-1%)
28	2	Extremely Unlikely (<0.1%)

Tuscarawas

Consecutive votes for President Trump		
Run	#	
44	2	Extremely Unlikely (<0.1%)

Wayne

Consecutive Votes for Joseph Biden		
Run	#	
16	3	Very Unlikely (0.1-1%)
17	2	Very Unlikely (0.1-1%)
18	2	Very Unlikely (0.1-1%)

OREGON

16 of the 36 Oregon Counties responded positively to public records requests for Cast Vote Records. 10 of those 16 counties properly responding show the Mesa Pattern in their mail-in ballots. The average Back Half Rise of the 10 counties was 1.15. Two other counties show Mesa Pattern in the first half of the counting, with a stabilization afterwards. These are discussed below.

Several of the counties, Columbia, Lincoln, and Polk, provided Cast Vote Records which included more ballots than are reported by the official results. This should be investigated to determine the reason and to ascertain the actual number of ballots and votes.

The following chart shows the total ballots, Trump mail-in Midpoint percentage, Trump mail-in Endpoint percentage, and the Back Half Rise.

County	Ballots	Trump Ending %	Trump Mid %	Back Half Rise
Clatsop	22,500	44%	42%	1.05
Coos	36,000	60%	54%	1.13
Deschutes	121,600	46%	35%	1.29
Douglas	62,400	69%	63%	1.11
Josephine	50,200	63%	56%	1.13
Klamath	35,600	71%	65%	1.08
Marion	159,000	49%	44%	1.12
Wasco	13,600	52%	44%	1.17
Washington	309,000	32%	26%	1.26
Yamhill	7,400	52%	46%	1.13

Oregon is a 100% vote by mail state.

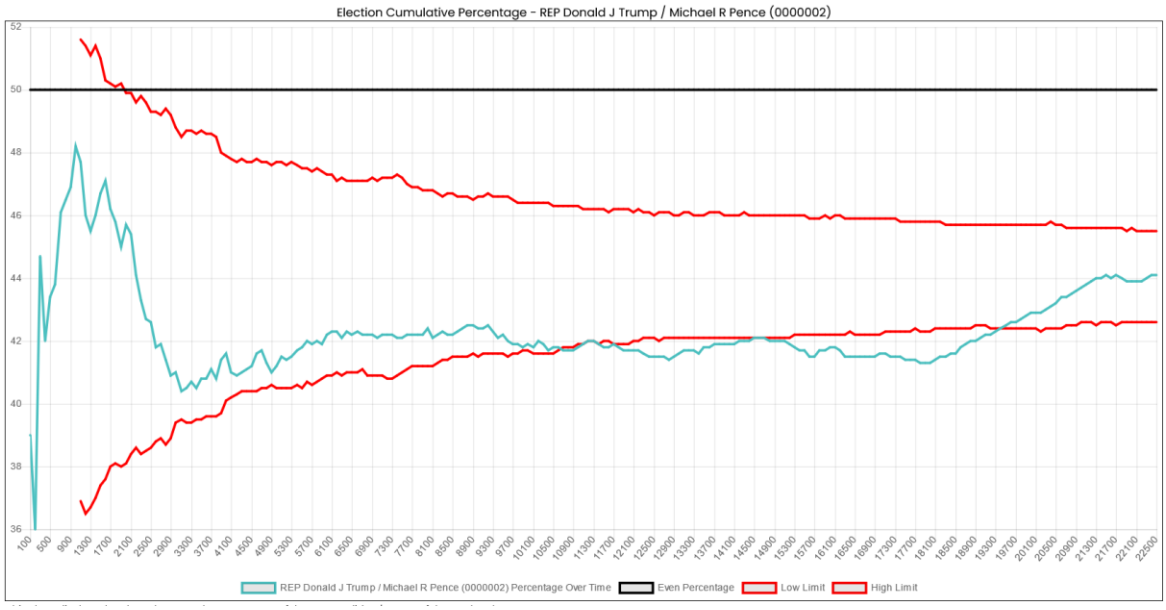
Following is the detailed breakdown of each of the 16 counties which provided an adequate Cast Vote Record.

- **<u>Clatsop County</u>**
  Vendor: Election Systems & Software

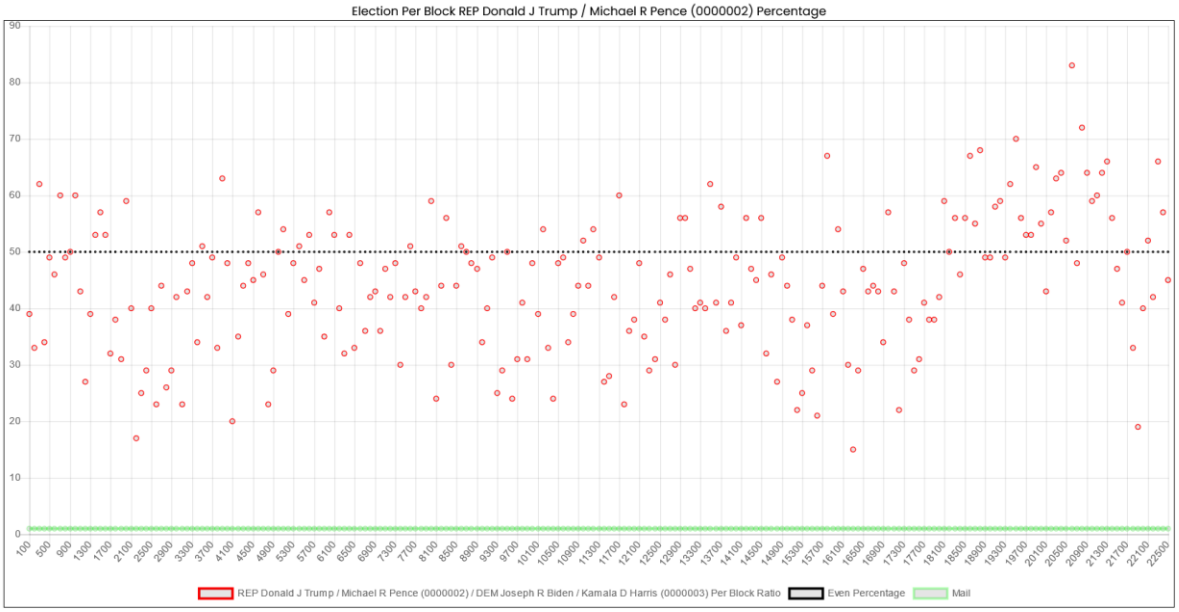
  The Oregon official results report 23,910 ballots cast for president, and the Cast Vote Record report 23,504. Thus, **406** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county by 42.3% to Joseph Biden's 53.7%.

  Clatsop County's Cast Vote Record, while showing that the Trump percentage did fall below the red cone at times, does not show the traditional Mesa Pattern.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a fairly random pattern until the end, when there is a rise and fall.



- **Columbia County**
  Vendor: Election Systems & Software

  The Oregon official results report 37,075 ballots cast for president, and the Cast Vote Record report 36,894. Thus, **the Cast Vote Record reports 268 more ballots than the official results.**

  According to the Cast Vote Record, President Trump won this county by 52.8% to Joseph Biden's 42.6%.

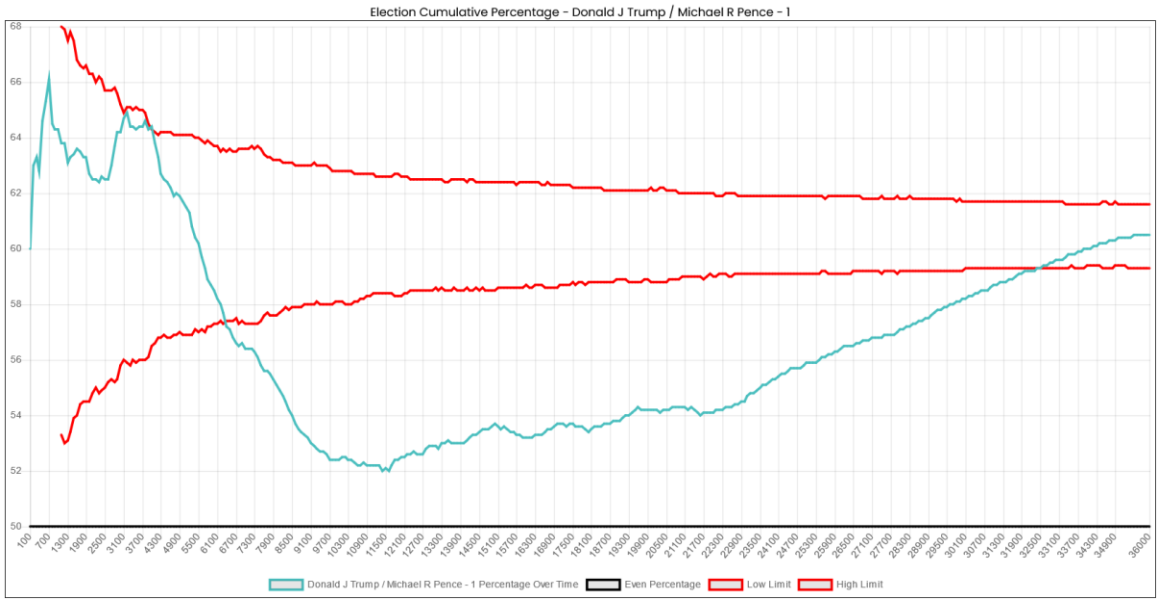
  An examination of the precinct distribution reported by the Cast Vote Record indicates that Columbia County counts and reports their mail-in ballots at the precinct level, as opposed to central counting. Testing for the Mesa Pattern – and in fact any other unnatural pattern – is impossible in these cases.

- **Coos County**
  Vendor: Clear Ballot

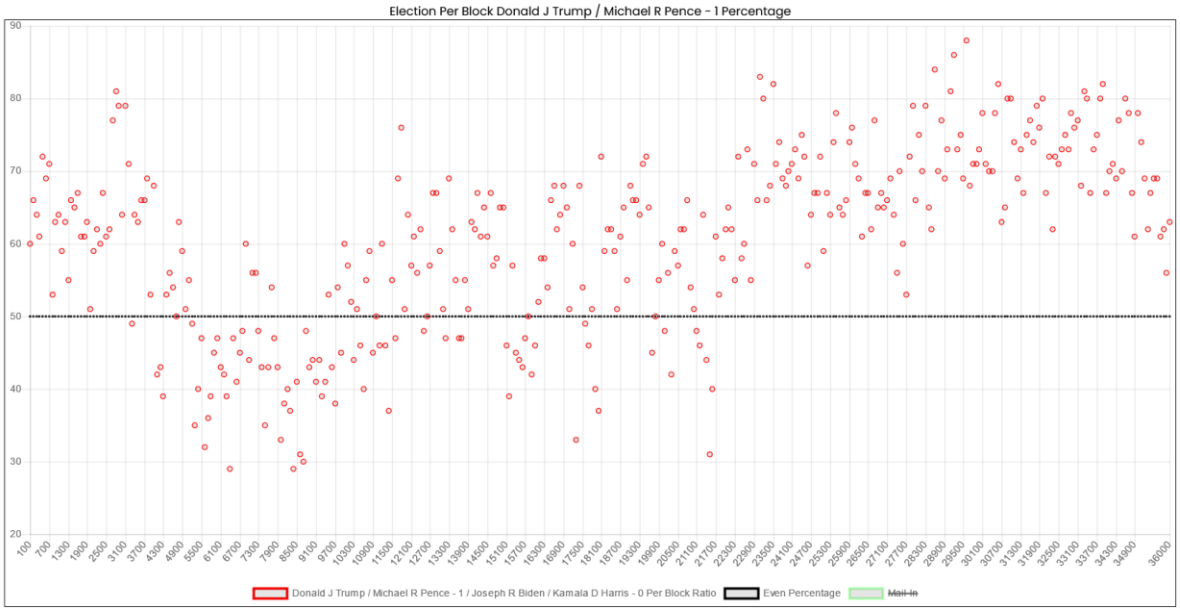
  The Oregon official results report 37,075 ballots cast for president, and the Cast Vote Record report 36,894. Thus, **181** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 58.9% to Joseph Biden's 38.4%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.13 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

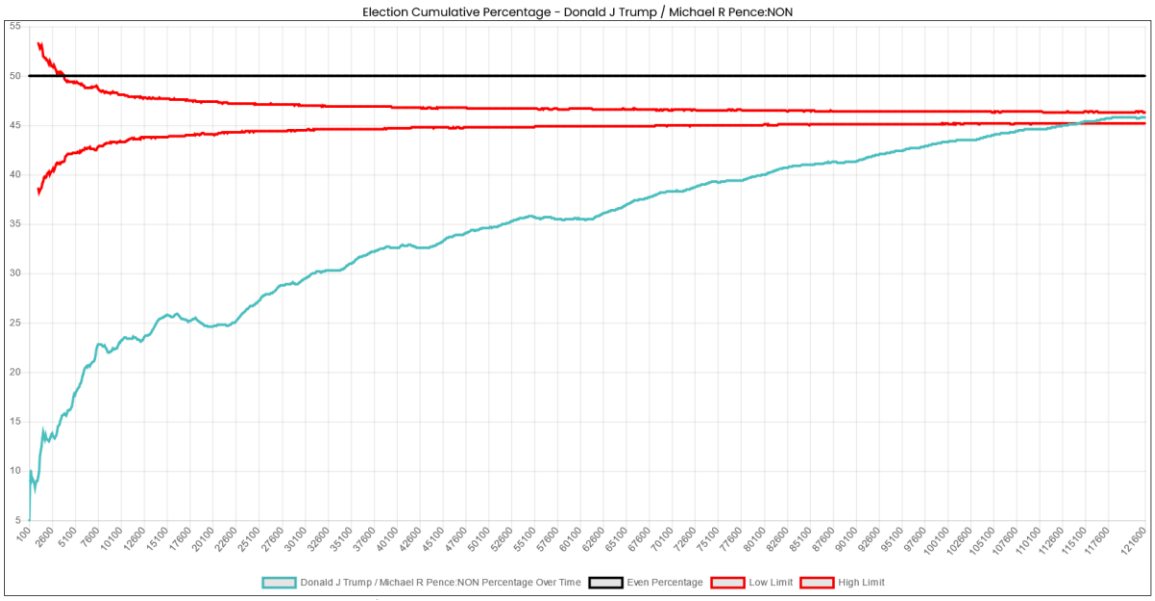


- **<u>Deschutes County</u>**
  Vendor: Clear Ballot

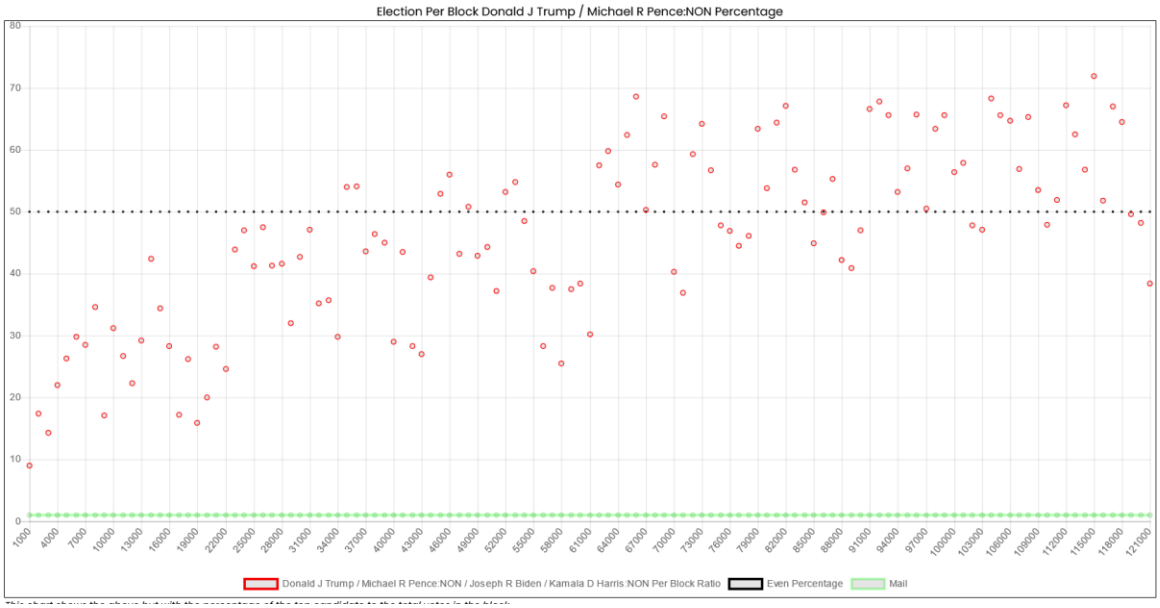
  The Oregon official results report 125,234 ballots cast for president, and the Cast Vote Record report 124,284. Thus, **950** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county by 44.4% to Joseph Biden's 52.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.29 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

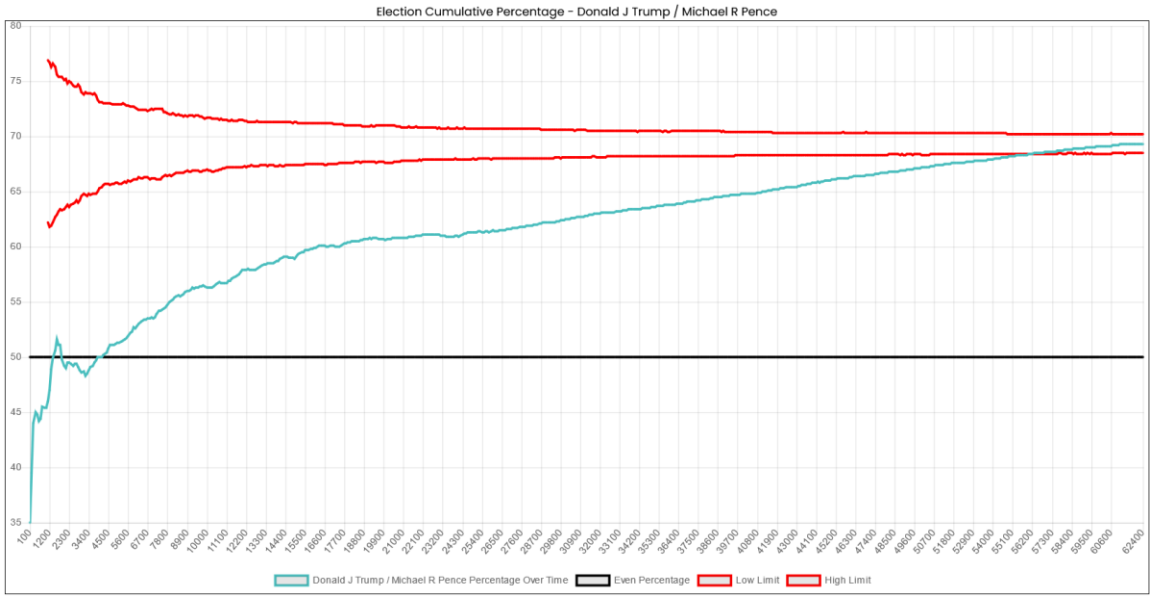


- **<u>Douglas County</u>**
  Vendor: Clear Ballot

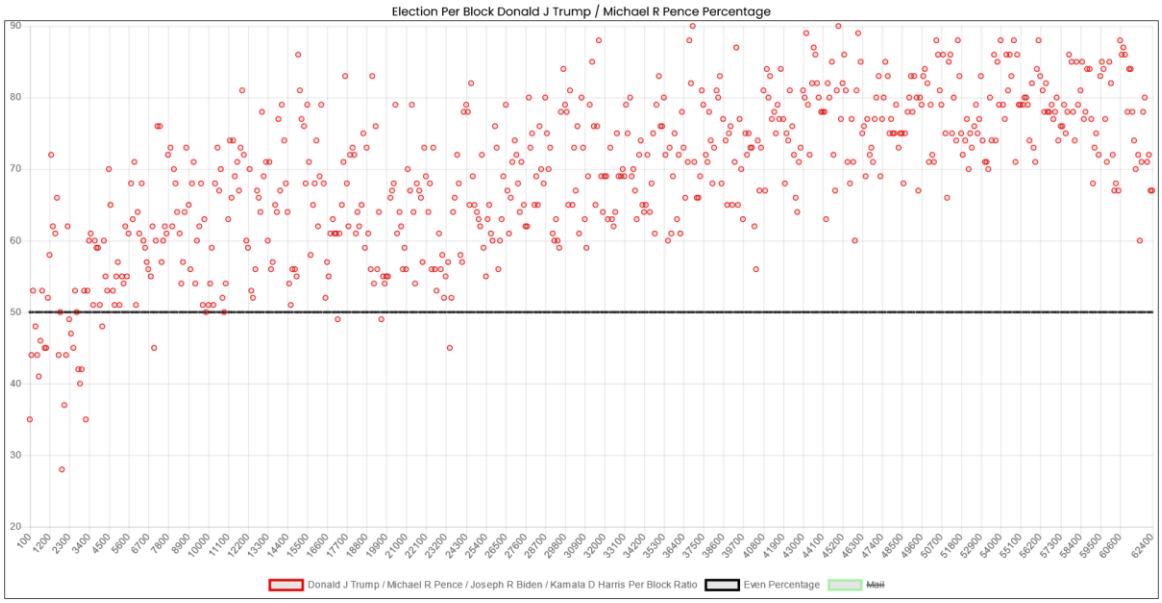
  The Oregon official results report 64,349 ballots cast for president, and the Cast Vote Record report 64,349. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 63.7% to Joseph Biden's 29.8%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.10 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds, with a dip at the very end.

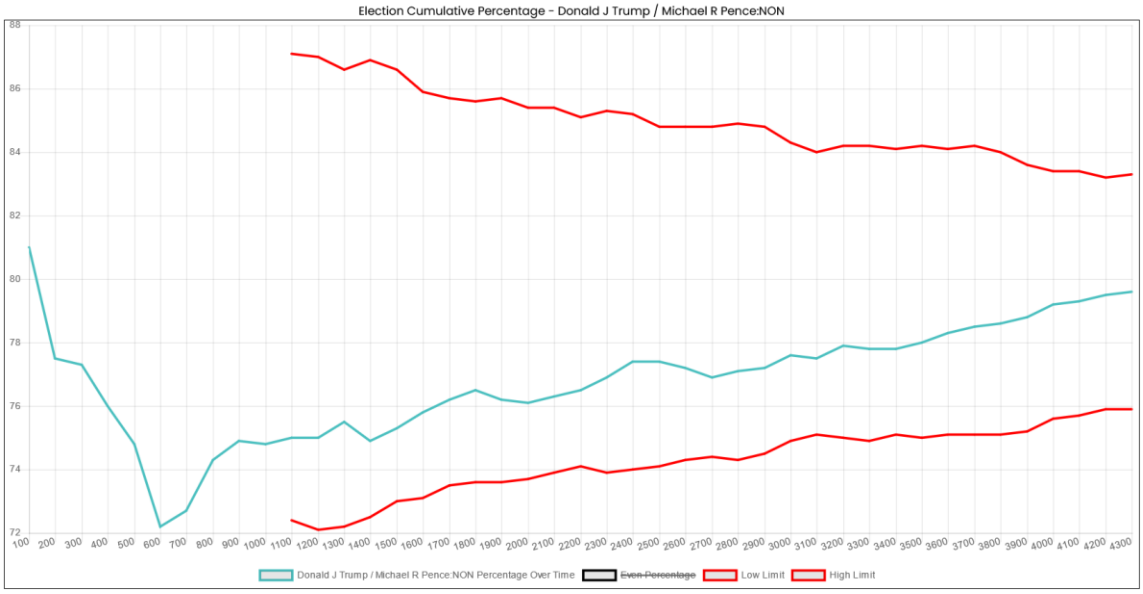


- **<u>Harney County</u>**
  Vendor: Clear Ballot

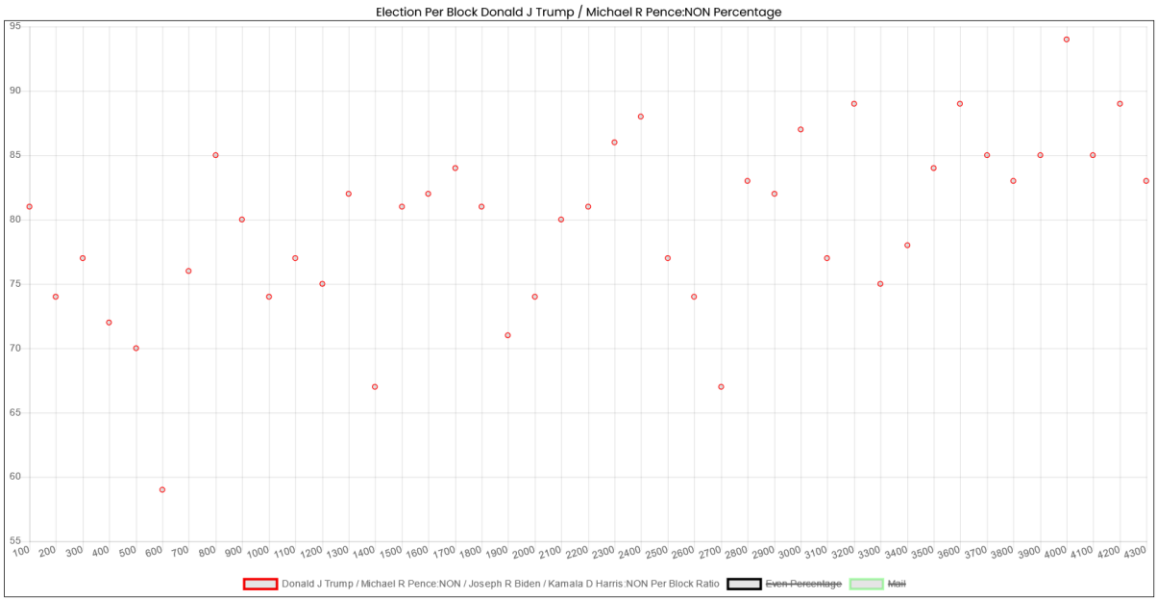
  The Oregon official results report 4,481 ballots cast for president, and the Cast Vote Record report 4,450. Thus, **31** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 77.5% to Joseph Biden's 20.0%.

  Plotting the mail-in votes over time shows something similar to the Mesa Pattern, but only has a 1.03 back half rise.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows a small general rise as the counting continues.

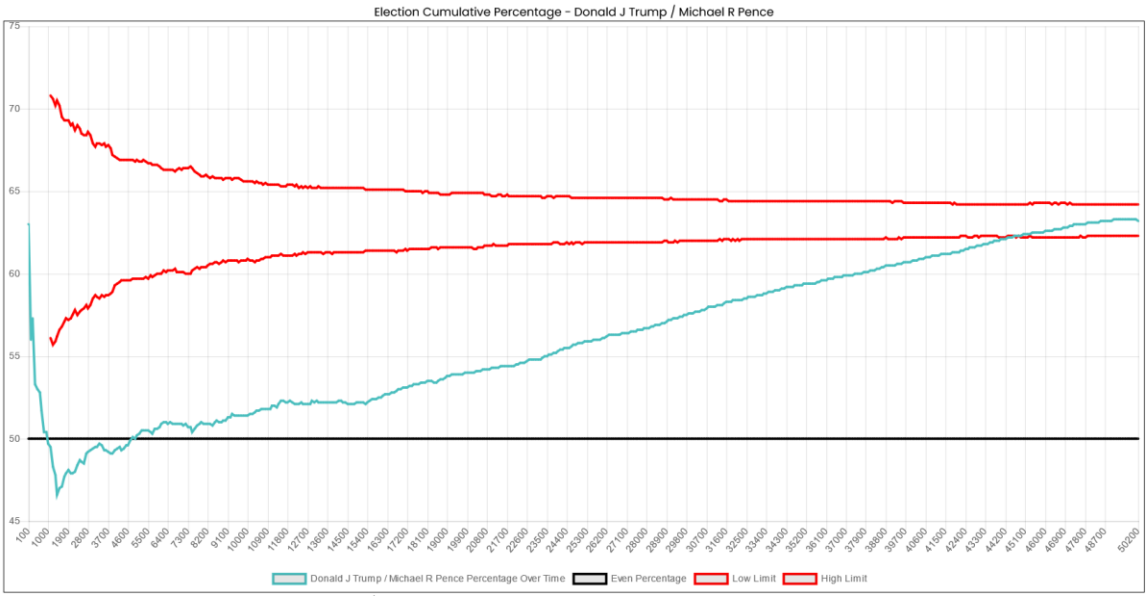


- **<u>Josephine County</u>**
  Vendor: Clear Ballot

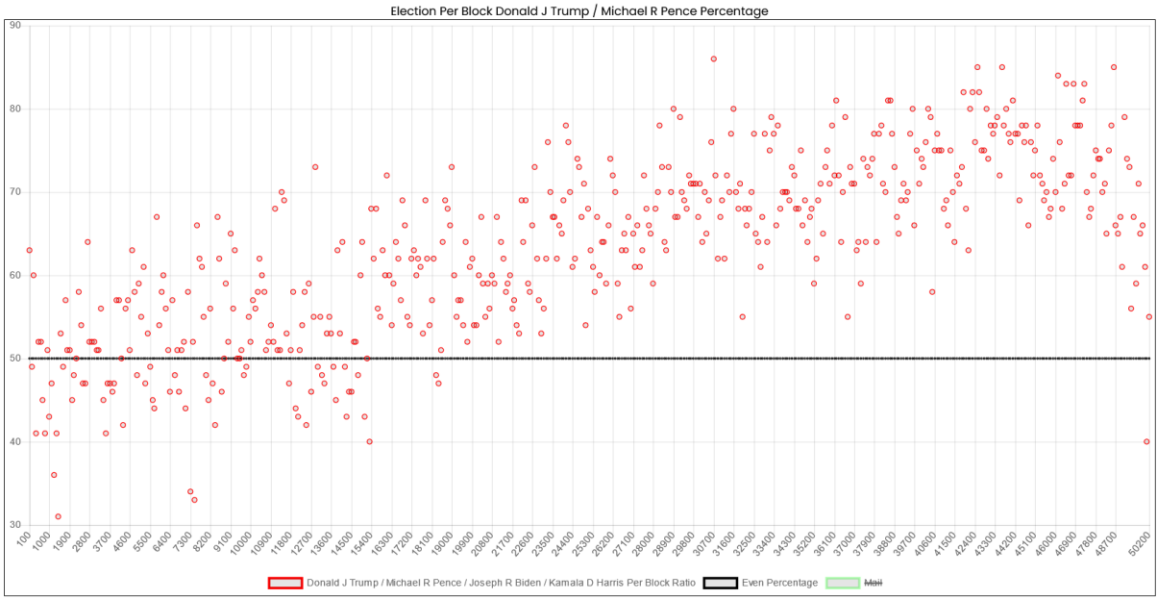
  The Oregon official results report 51,641 ballots cast for president, and the Cast Vote Record report 51,340. Thus, **301** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 61.5% to Joseph Biden's 35.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.13 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. Again, note the sudden dip towards more Biden-favorable blocks at the very end.

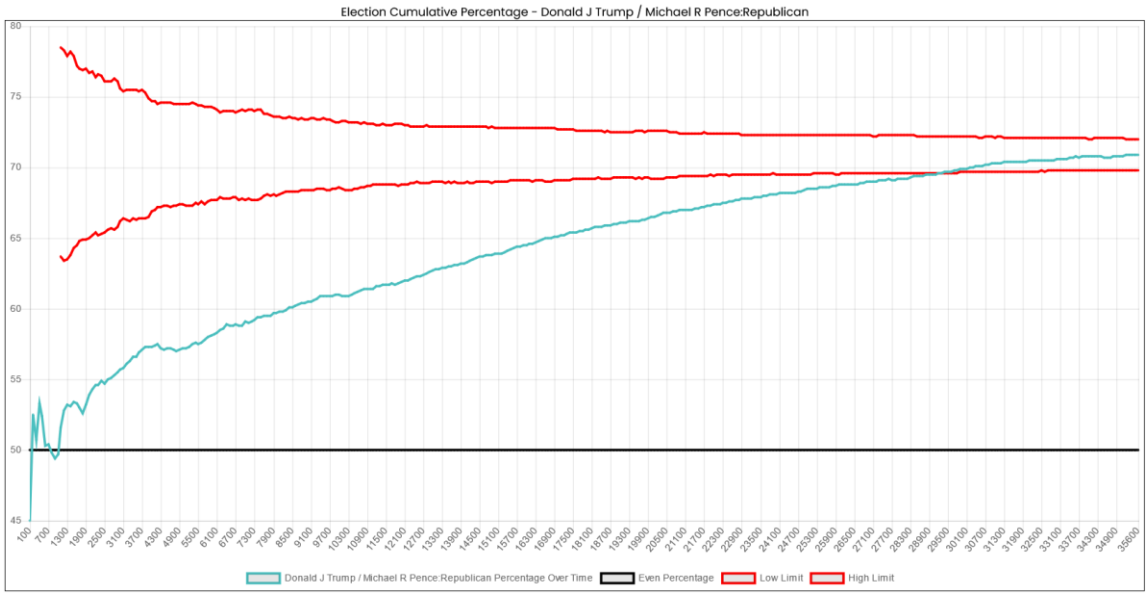


- **<u>Klamath County</u>**
  Vendor: Clear Ballot

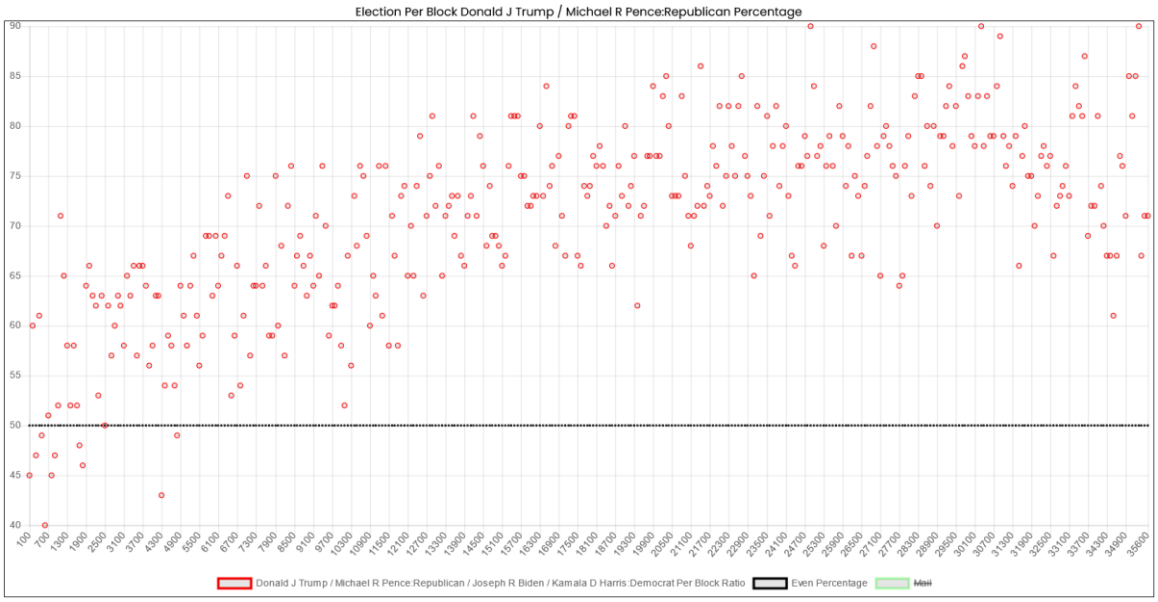
  The Oregon official results report 36,726 ballots cast for president, and the Cast Vote Record report 36,556. Thus, **170** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 68.9% to Joseph Biden's 28.3%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.08 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

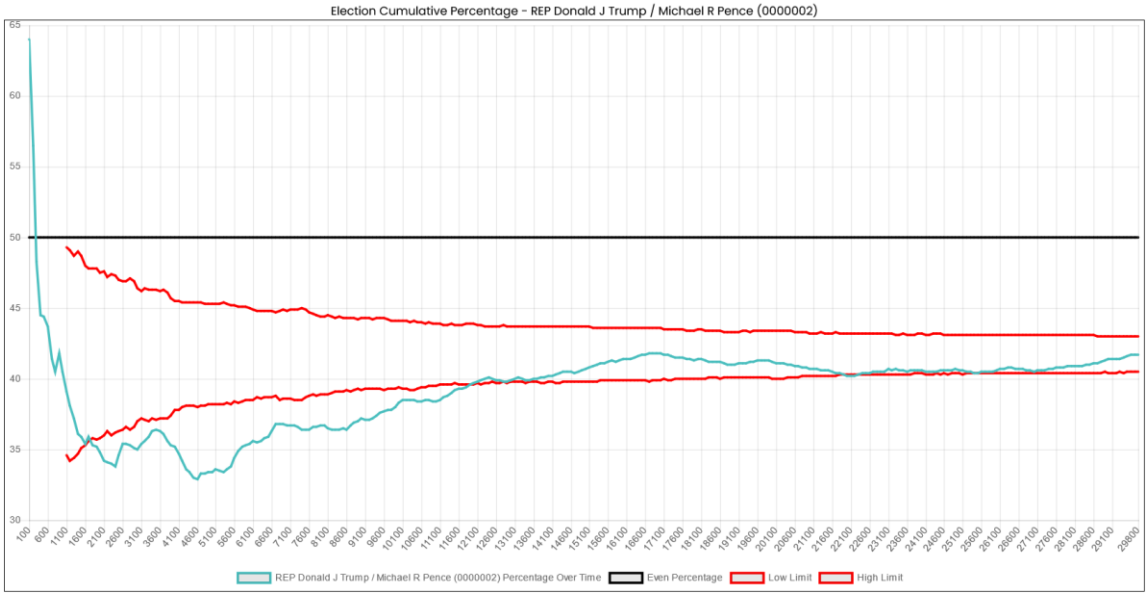


- **<u>Lincoln County</u>**
  Vendor: Election Systems & Software

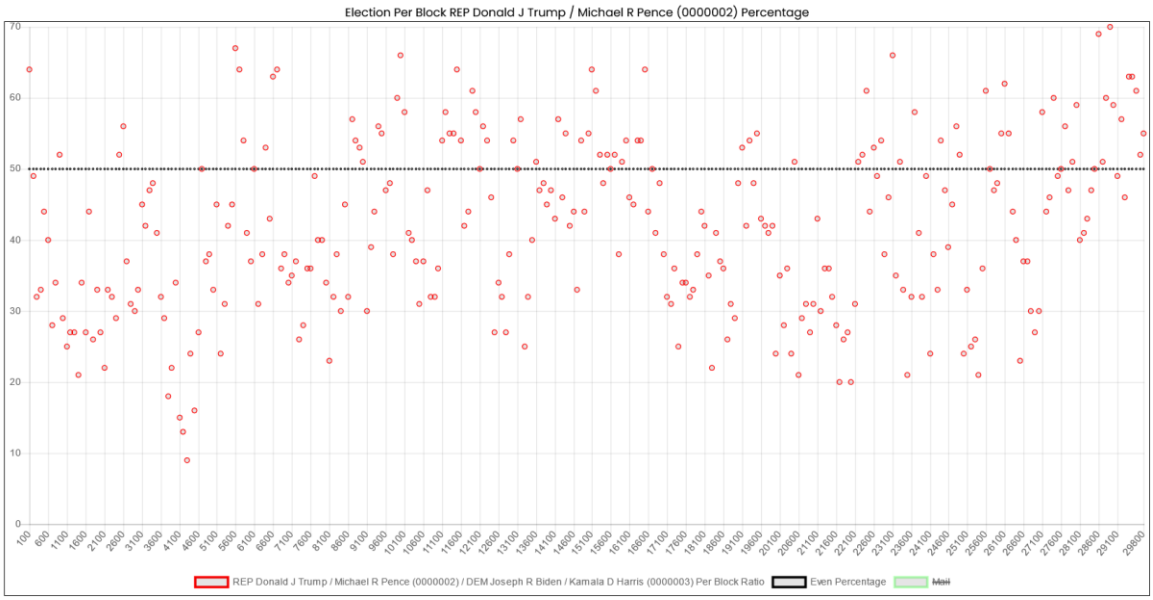
  The Oregon official results report 30,726 ballots cast for president, and the Cast Vote Record report 30,746. Thus, **the Lincoln County Cast Vote Record contains 20 more ballots than the official results.**

  According to the Cast Vote Record, President Trump lost this county by 40.2% to Joseph Biden's 56.1%.

  Plotting the mail-in votes over time shows a rise early in the vote which resembles the Mesa Pattern. The change in Trump percentage between the top of the rise and the point halfway between the beginning and that point is 1.14.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes is rather unremarkable.

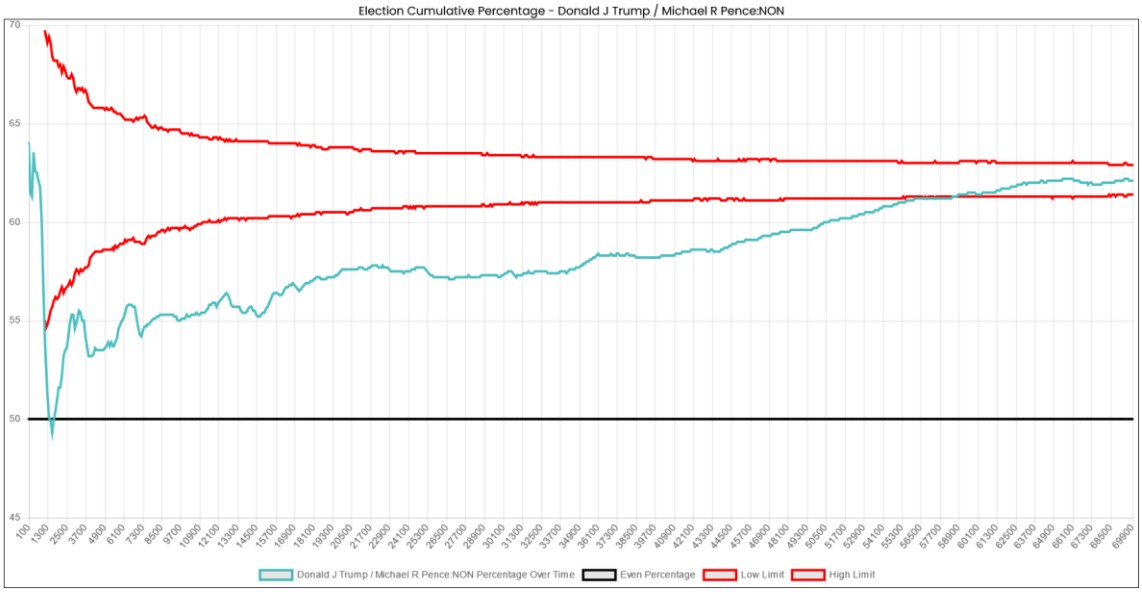


- **Linn County**
  Vendor: Election Systems & Software

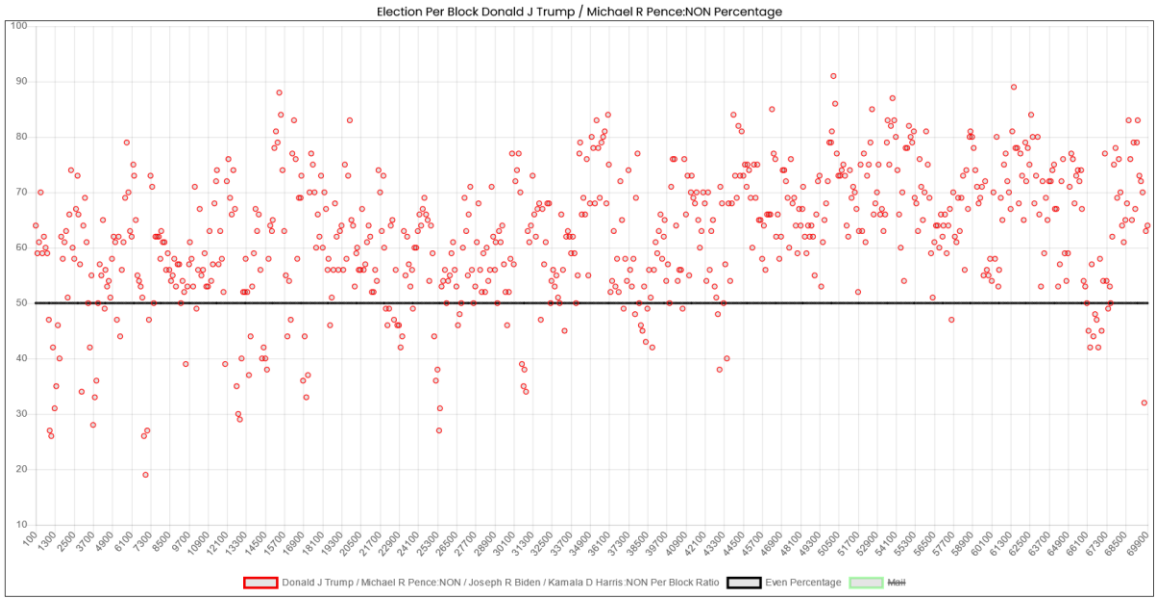
  The Oregon official results report 72,640 ballots cast for president, and the Cast Vote Record report 72,144. Thus, **496** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 59.9% to Joseph Biden's 36.5%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.08 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

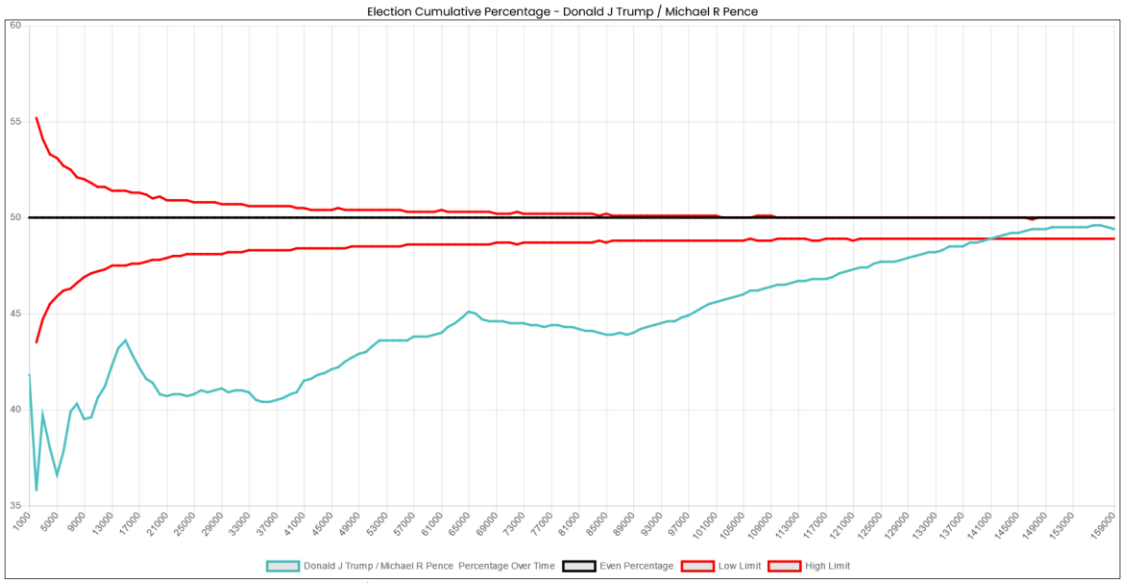


- **<u>Marion County</u>**
  Vendor: Hart Intercivic

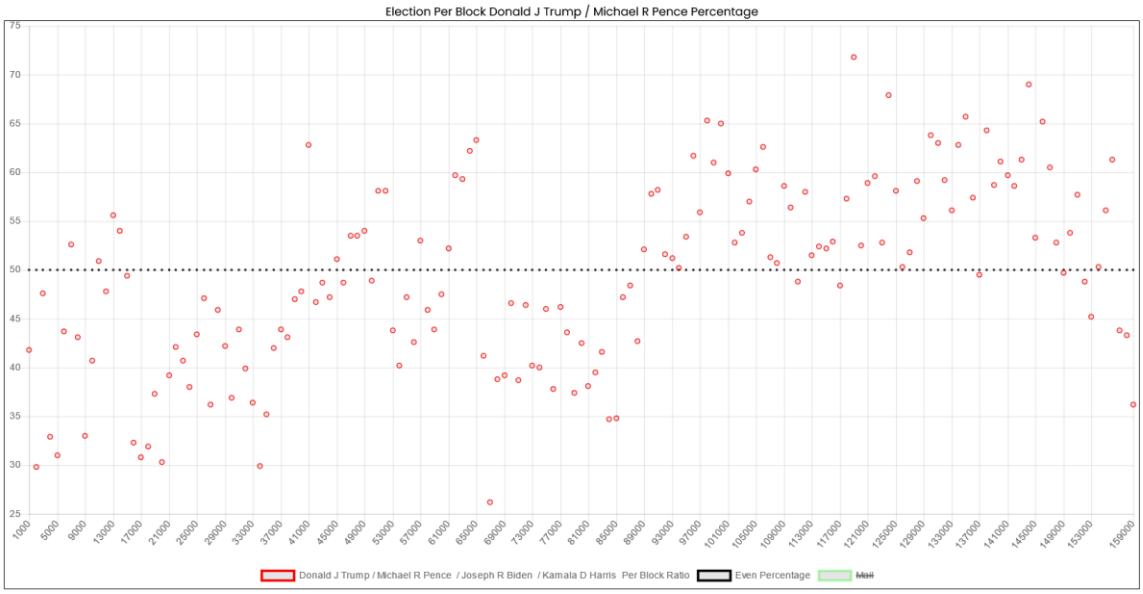
  The Oregon official results report 165,534 ballots cast for president, and the Cast Vote Record report 164,346. Thus, **1,188** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county by 48.1% to Joseph Biden's 49.2%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.12 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 1,000 mail-in votes clearly shows the gradual rise as the counting proceeds.

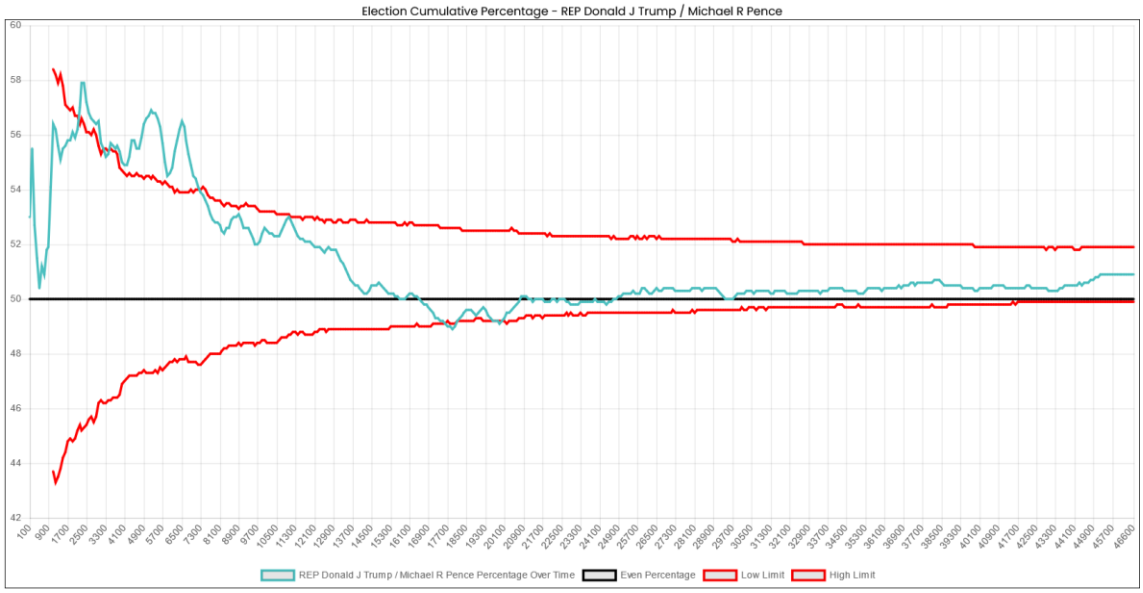


- **Polk County**
  Vendor: Election Systems & Software

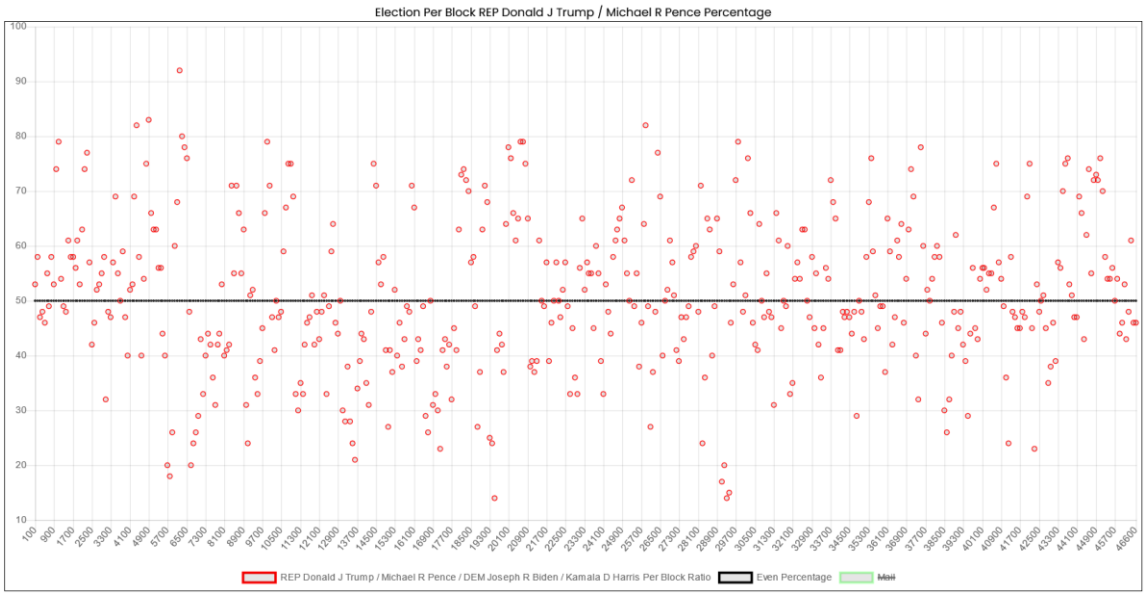
  The Oregon official results report 48,291 ballots cast for president, and the Cast Vote Record report 48,291. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 48.6% to Joseph Biden's 47.0%.

  Plotting the mail-in votes over time shows an 8% drop starting at about vote 6,500, and then a normal-looking stabilization. Thus, this county does not match the Mesa Pattern. An analysis of the ballots from 6,500 to 17,900 is indicated, if possible.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes is unremarkable



- **Union County**
  Vendor: Hart Intercivic

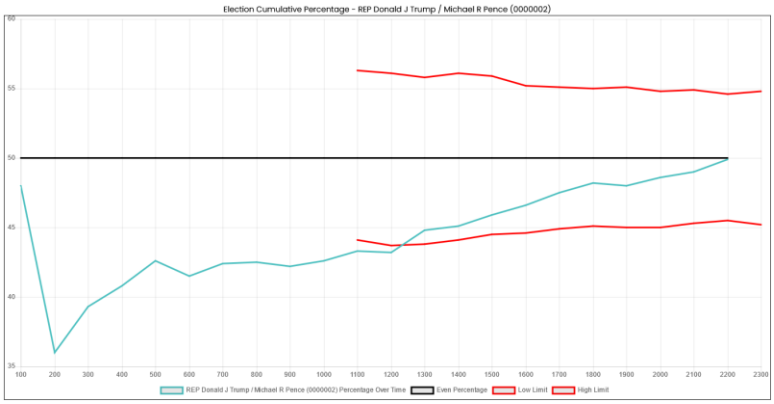
  The Oregon official results report 14,944 ballots cast for president, and the Cast Vote Record report 14,870. Thus, **74** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 68.5% to Joseph Biden's 28.3%.

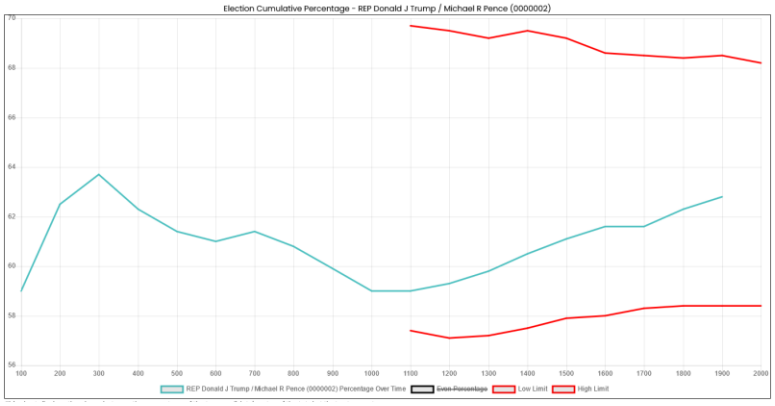
  An examination of the precinct distribution reported by the Cast Vote Record indicates that Union County counts and reports their mail-in ballots at the precinct level, as opposed to central counting. Testing for the Mesa Pattern – and in fact any other unnatural pattern – is impossible in these cases.

  However, an analysis of several large precincts do show the Mesa Pattern forming.

  01 LG City – back half rise of 1.16



  02 Lg City - back half rise of 1.06

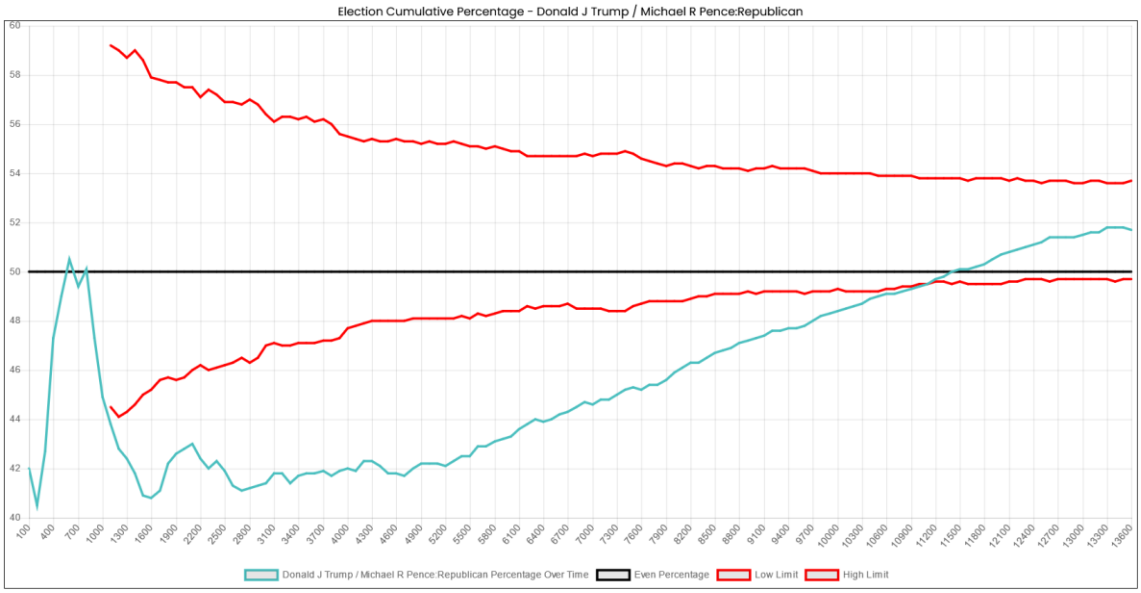


- **Wasco County**
  Vendor: Clear Ballot

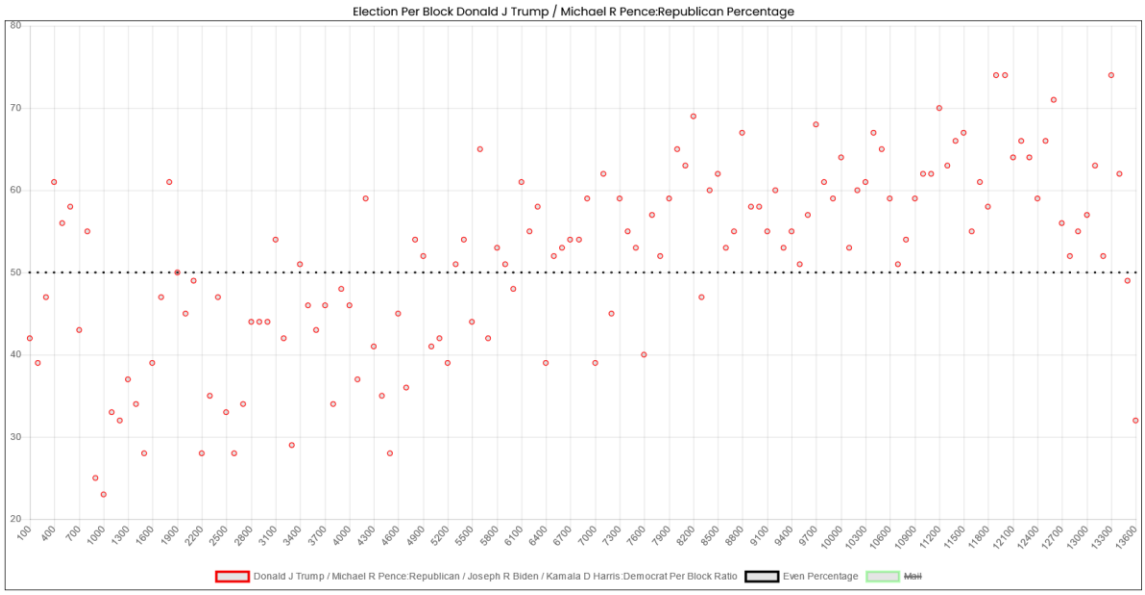
  The Oregon official results report 14,130 ballots cast for president, and the Cast Vote Record report 14,037. Thus, **93** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 49.8% to Joseph Biden's 46.7%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.16 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.

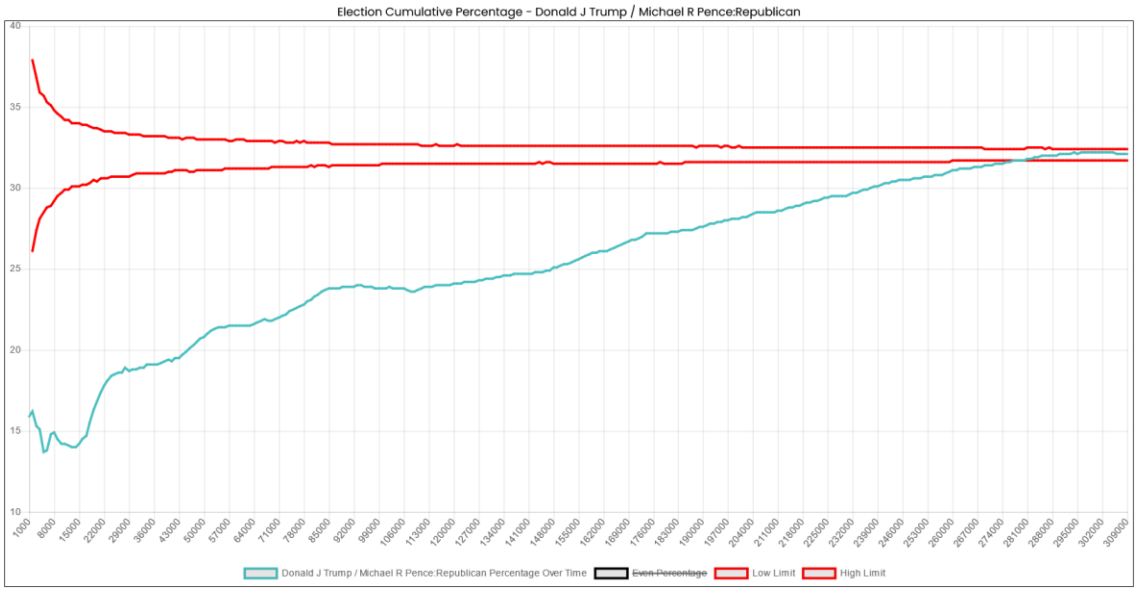


- **Washington County**
  Vendor: Clear Ballot

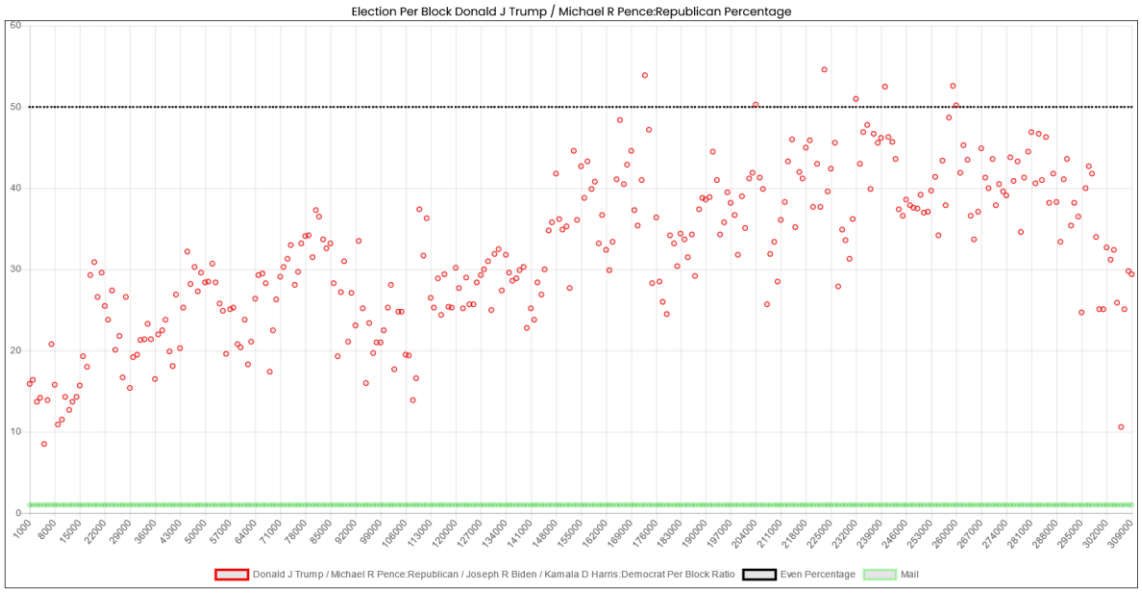
  The Oregon official results report 320,326 ballots cast for president, and the Cast Vote Record report 317,470. Thus, **2,856** ballots were redacted.

  According to the Cast Vote Record, President Trump lost this county by 30.9% to Joseph Biden's 65.5%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.26 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the drop at the end.

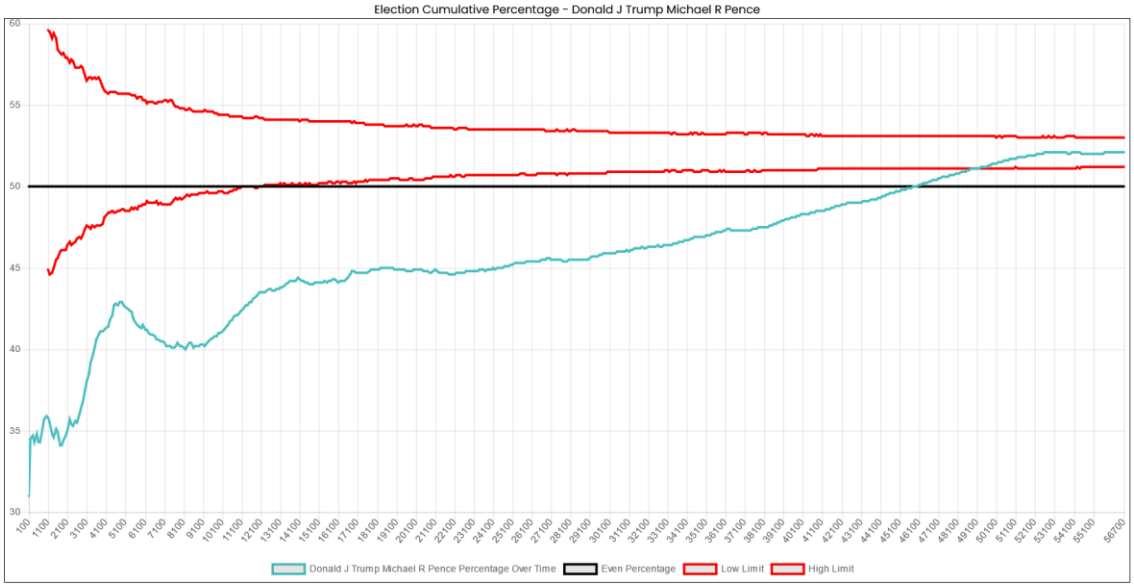


- **Yamhill County**
  Vendor: Hart Intercivic

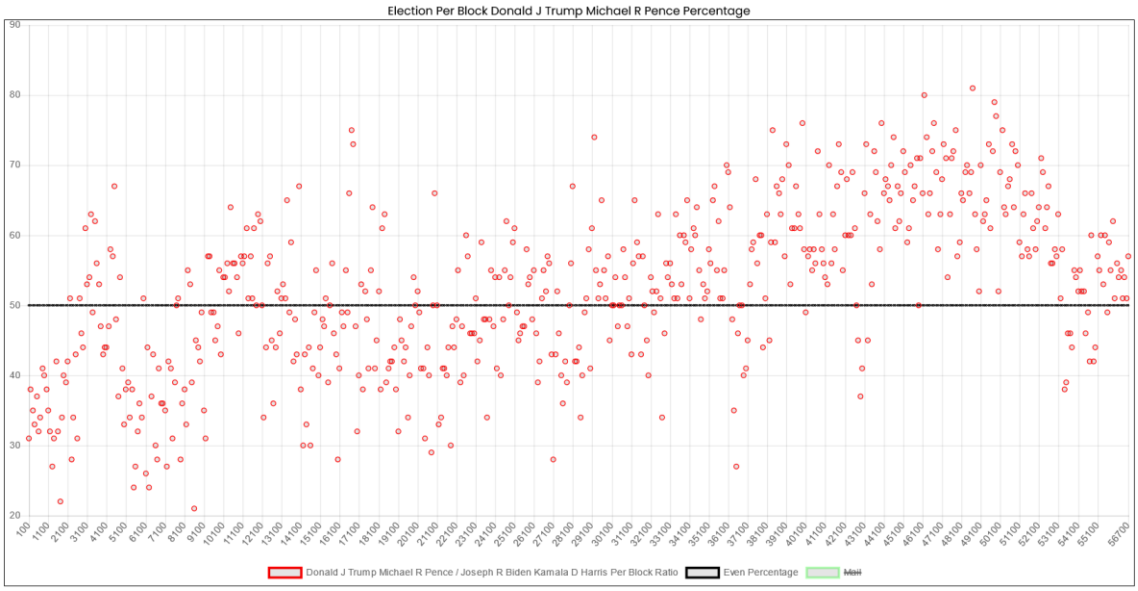
  The Oregon official results report 58,923 ballots cast for president, and the Cast Vote Record report 58,566. Thus, **357** ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 50.5% to Joseph Biden's 46.4%.

  Plotting the mail-in votes over time shows the Mesa Pattern with a back half rise of 1.14 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds. Note the drop at the end.



COUNTY SUMMARY ANALYSIS

The following shows each county for which a Cast Vote Record was received, and a score based upon three criteria.

The County shows the visual aspect of the Mesa Pattern (or its reverse) – 1 point.

The County has a back half rise (or fall) greater than or equal to 1.1 (rounded) – 1 point.

The percentage plot of President Trump's votes exceeds the range of possible values indicated by the red cone – 1 point.

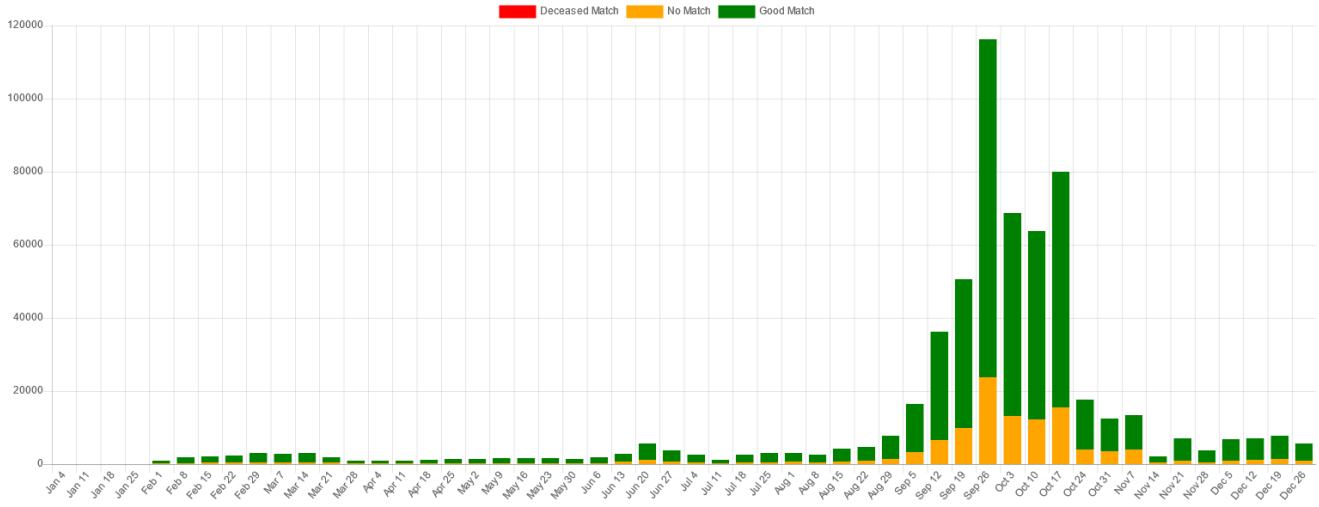
While any score above zero indicates machine manipulation, the actual score may correlate to the severity of the manipulation.

County	Vendor	Manipulation Score
Clatsop	Election Systems & Software	1
Columbia	Election Systems & Software	Can Not Determine
Coos	Clear Ballot	3
Deschutes	Clear Ballot	3
Douglas	Clear Ballot	3
Harney	Clear Ballot	1
Josephine	Clear Ballot	3
Klamath	Clear Ballot	3
Lincoln	Election Systems & Software	2
Linn	Clear Ballot	3
Marion	Hart InterCivic	3
Polk	Election Systems & Software	0
Union	Election Systems & Software	Can Not Determine
Wasco	Clear Ballot	3
Washington	Clear Ballot	3
Yamhill	Hart InterCivic	3

STATE HAVV LOOKUP ANALYSIS

Oregon's HAVV lookup statistics (as provided by the Social Security Administration) give the appearance that this program is being abused to register unqualified voters. A total of 98,923 queries were made by the state during 2020, and 22,186 of them were rejected as "no match". 1,751 of the queries were rejected as "Single Match Deceased". The HAVV queries peaked on the week of October 17th , with 13,666 queries being made that week alone, and 2,937 (21.5%) being rejected as "no match". Lookups can and do lag behind the actual date of application.

Remembering that this type of voter qualification is intended to be used for those without proper identification, all of these numbers seem extremely high, and should be further investigated.



ELECTION NIGHT RESULT ANOMALIES

According to the election night reporting provided by the New York Times and Edison Research, Curry County removed 8,485 votes from President Trump and 6,058 votes from Joseph Biden on November 26th at 9:33 AM PST. These were all election day votes.

CONSECUTIVE VOTES FOR CANDIDATES WITH LESS THAN 1% PROBABILITY

The mail-in votes show the following number of Consecutive Votes For the indicated candidate, and the likelihood of that many consecutive votes occurring given the final percentage breakdown of the votes. The existence of so many of these very improbable runs is an additional indication of the algorithm used to affect the vote results and would be expected given the smoothing sorting of votes indicated by the Mesa Pattern.

Counties not listed did not have any vote runs which fell below the 1% probability or exhibited precinct level sorting.

Clatsop

Consecutive votes for President Trump		
Run	#	
19	2	Very Unlikely (0.1-1%)

Consecutive Votes for Joseph Biden		
Run	#	
25	2	Very Unlikely (0.1-1%)

Columbia

Consecutive votes for President Trump		
Run	#	
25	2	Very Unlikely (0.1-1%)

Deschutes

Consecutive votes for President Trump		
Run	#	
20	7	Very Unlikely (0.1-1%)
21	6	Very Unlikely (0.1-1%)
22	4	Very Unlikely (0.1-1%)
24	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
24	10	Very Unlikely (0.1-1%)
25	11	Very Unlikely (0.1-1%)
26	10	Very Unlikely (0.1-1%)
27	7	Very Unlikely (0.1-1%)

28	4	Very Unlikely (0.1-1%)
29	4	Extremely Unlikely (<0.1%)
30	6	Extremely Unlikely (<0.1%)
32	2	Extremely Unlikely (<0.1%)
33	2	Extremely Unlikely (<0.1%)
35	4	Extremely Unlikely (<0.1%)
39	2	Extremely Unlikely (<0.1%)
41	2	Extremely Unlikely (<0.1%)
42	2	Extremely Unlikely (<0.1%)
43	2	Extremely Unlikely (<0.1%)
45	2	Extremely Unlikely (<0.1%)
46	2	Extremely Unlikely (<0.1%)
54	2	Extremely Unlikely (<0.1%)

Josephine

Consecutive Votes for Joseph Biden		
Run	**#**	
15	2	Very Unlikely (0.1-1%)

Lincoln

Consecutive Votes for Joseph Biden		
Run	**#**	
29	2	Very Unlikely (0.1-1%)

Linn

Consecutive Votes for Joseph Biden		
Run	**#**	
16	2	Very Unlikely (0.1-1%)
17	4	Very Unlikely (0.1-1%)

Marion

Consecutive votes for President Trump		
Run	**#**	
21	7	Very Unlikely (0.1-1%)
22	3	Very Unlikely (0.1-1%)
23	4	Very Unlikely (0.1-1%)
25	3	Very Unlikely (0.1-1%)
26	3	Extremely Unlikely (<0.1%)
28	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	**#**	
22	6	Very Unlikely (0.1-1%)
23	6	Very Unlikely (0.1-1%)
24	3	Very Unlikely (0.1-1%)
25	3	Very Unlikely (0.1-1%)
27	3	Extremely Unlikely (<0.1%)
28	2	Extremely Unlikely (<0.1%)
31	2	Extremely Unlikely (<0.1%)

Polk

Consecutive votes for President Trump		
Run	#	
22	2	Very Unlikely (0.1-1%)
23	4	Very Unlikely (0.1-1%)
26	2	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
20	4	Very Unlikely (0.1-1%)

Union

Consecutive votes for REP Donald J Trump / Michael R Pence (0000002)		
Run	#	
41	2	Very Unlikely (0.1-1%)

Washington

Consecutive votes for President Trump		
Run	#	
15	2	Very Unlikely (0.1-1%)
17	3	Extremely Unlikely (<0.1%)

Consecutive Votes for Joseph Biden		
Run	#	
42	3	Very Unlikely (0.1-1%)
43	7	Very Unlikely (0.1-1%)
44	2	Very Unlikely (0.1-1%)
45	5	Very Unlikely (0.1-1%)
46	2	Very Unlikely (0.1-1%)
47	4	Extremely Unlikely (<0.1%)
48	2	Very Unlikely (0.1-1%)
56	3	Extremely Unlikely (<0.1%)
57	2	Extremely Unlikely (<0.1%)

Yamhill

Consecutive votes for President Trump		
Run	#	
24	2	Very Unlikely (0.1-1%)

WEST VIRGINIA

Only 2 of the 55 West Virginia Counties responded positively to public records requests for Cast Vote Records. Both counties responding show the Mesa Pattern in their mail-in ballots, one with a back half rise of 1.25 and 1.10.

The following chart shows the total ballots, Trump mail-in Midpoint percentage, Trump mail-in Endpoint percentage, and the Back Half Rise.

County	Vendor	Total Votes	Trump Ending %	Trump Mid %	Back Half Ratio
Nicholas	ES&S	4,000	68%	53%	1.29
Wood	ES&S	6,400	42%	37%	1.10

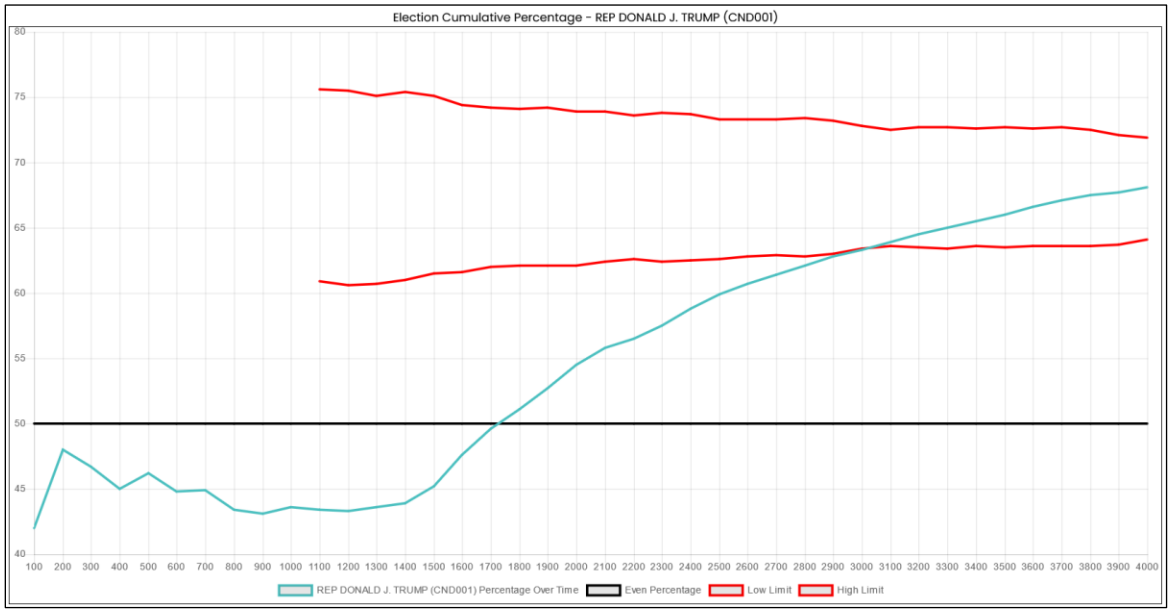
Following is the detailed breakdown of both counties which provided an adequate Cast Vote Record.

- **Nicholas County**
  Vendor: Election Systems & Software

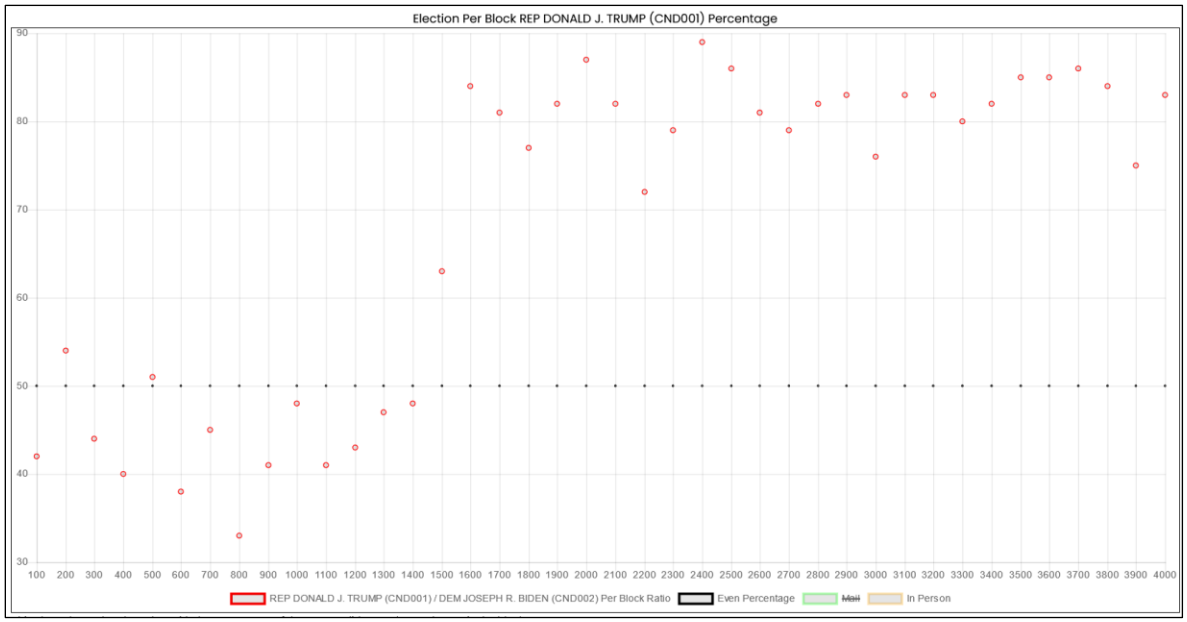
  The West Virginia official results report 10,630 ballots cast for president, and the Cast Vote Record report 10,630. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 77.4% to Joseph Biden's 20.8%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.25 in favor of President Trump.



Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes shows not so much a rise but a change in the characteristics of the voting pattern. Note that at 1,400 ballots in, President Trump had received only two 100 vote blocks which were favorable to him, while 12 were favorable to Joseph Biden. After the change point, no block was below 60% for President Trump.



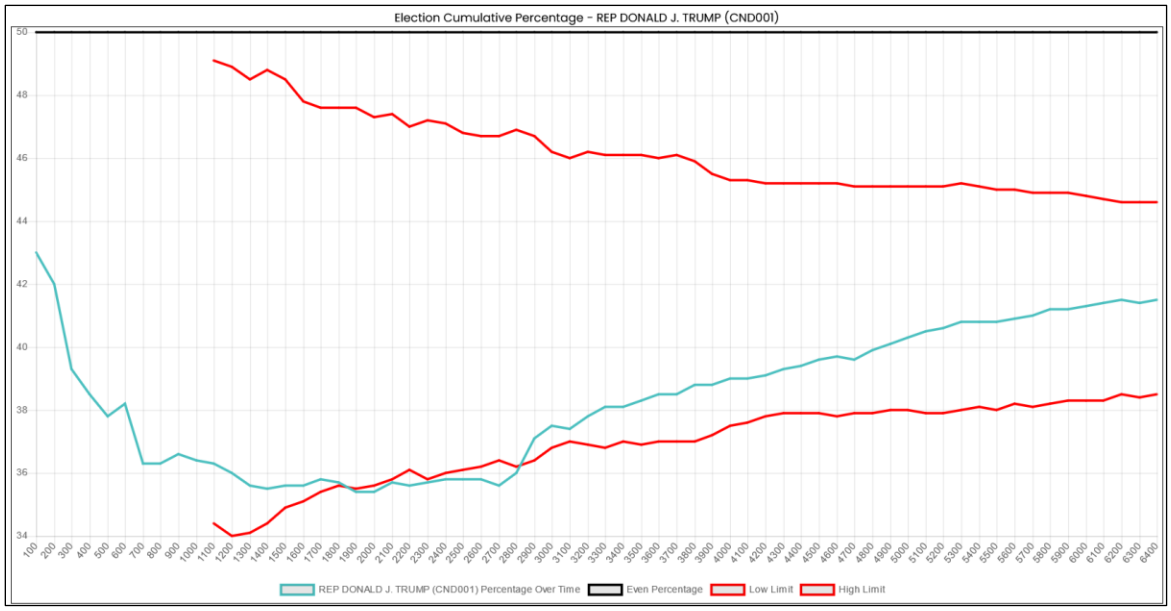
- **<u>Wood County</u>**

  Vendor: Election Systems & Software

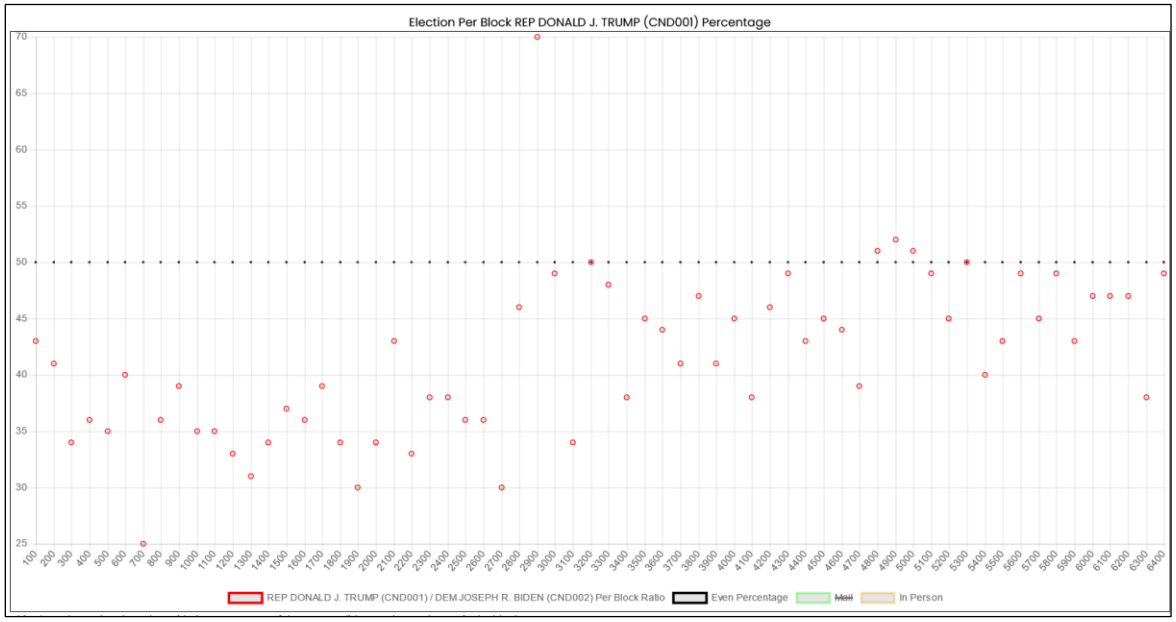
  The West Virginia official results report 38,762 ballots cast for president, and the Cast Vote Record report 38,762. Thus, no ballots were redacted.

  According to the Cast Vote Record, President Trump won this county by 69.7% to Joseph Biden's 28.0%.

  Plotting the mail-in votes in sequence shows the Mesa Pattern with a back half rise of 1.10 in favor of President Trump.



  Plotting the percentage of votes for President Trump of every distinct 100 mail-in votes clearly shows the gradual rise as the counting proceeds.



COUNTY SUMMARY ANALYSIS

The following shows each county for which a Cast Vote Record was received, and a score based upon three criteria.

22. The County shows the visual aspect of the Mesa Pattern (or its reverse) – 1 point.
23. The County has a back half rise (or fall) greater than or equal to 1.1 (rounded) – 1 point.
24. The percentage plot of President Trump's votes exceeds the range of possible values indicated by the red cone – 1 point.

While any score above zero indicates machine manipulation, the actual score may correlate to the severity of the manipulation.

County	Vendor	Manipulation Score
Nicholas	Election Systems & Software	3
Wood	Dominion Voting Systems	3

STATE HAVV LOOKUP ANALYSIS

West Virginia does not participate in the HAVV lookup system.

ELECTION NIGHT RESULT ANOMALIES

This table lists West Virginia counties which experienced votes removed in election night reporting. The data is taken from the Edison/New York Times election night reporting results from the 2020 General Election.

There are three different vote totals reported for each candidate in the election night reporting, the total votes, the election day votes, and the absentee votes. If there are votes removed from the election day or absentee and there is not a corresponding drop in total votes, that means that vote counts were shifted from election day to absentee or vice versa.

County	Timestamp	Candidate	Number of Votes Removed	Type of Votes Removed
WOOD	11/9/2020 10:35 AM	50,238	Trump	Total Votes
WOOD	11/9/2020 10:35 AM	26,691	Biden	Total Votes
WOOD	11/9/2020 10:35 AM	17,447	Trump	Mail Votes
WOOD	11/9/2020 10:35 AM	8,449	Biden	Mail Votes
WOOD	11/9/2020 10:35 AM	32,791	Trump	Election Day Votes
WOOD	11/9/2020 10:35 AM	18,242	Biden	Election Day Votes

The election night reporting shows a removal of 50,238 votes from President Trump and 26,691 votes from Joe Biden at 10:35 AM on November 9th.

CONSECUTIVE VOTES FOR CANDIDATES WITH LESS THAN 1% PROBABILITY

None detected.