

ANALYSIS OF MINNEHAHA COUNTY, SOUTH DAKOTA NOVEMBER 2020 CVR
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GENERAL

The Cast Vote Record file contains a record of 93,430 ballots. I was unable to find a web page showing the official number of ballots received in the 2020 General election, however a total of 92,326 presidential votes are reported by Wikipedia¹ and the Cast Vote Record shows the following.

Totals From CVR						
Candidate	Mail	In Person	Total	%	Official	Diff
DEM Biden & Harris (4314)	21,762	18,720	40,482	43.3%	-	-
LIB Jorgensen & Cohen (4308)	771	1,824	2,595	2.8%	-	
overvote	21	28	49	0.1%	-	
REP Trump & Pence (4315)	14,870	34,379	49,249	52.7%	-	-
undervote	472	583	1,055	1.1%	-	
Total Votes	93,430					

Removing the 49 overvotes and 1,055 undervotes results in 92,326 votes, which matches the total above. In addition, the candidate totals from the Wikipedia page match the totals in the Cast Vote Record. Therefore, I deem the CVR complete with no redactions.

The breakdown of in-person vs. mail-ins listed above has been inferred from the data and may differ by +/- 50 votes. If mail-in totals are available from the county or state, they should be compared with the numbers above.

TEST FOR MESA PATTERN

As described in detail in my "Fingerprints of Fraud" report², the "Mesa Pattern" is an unnatural pattern of partisan voting observed in votes from mail-in ballots which show a random pattern of receipt. As such, the cumulative percentages throughout the counting should show a general conformance towards the final value with the rate of change also steadily decreasing.

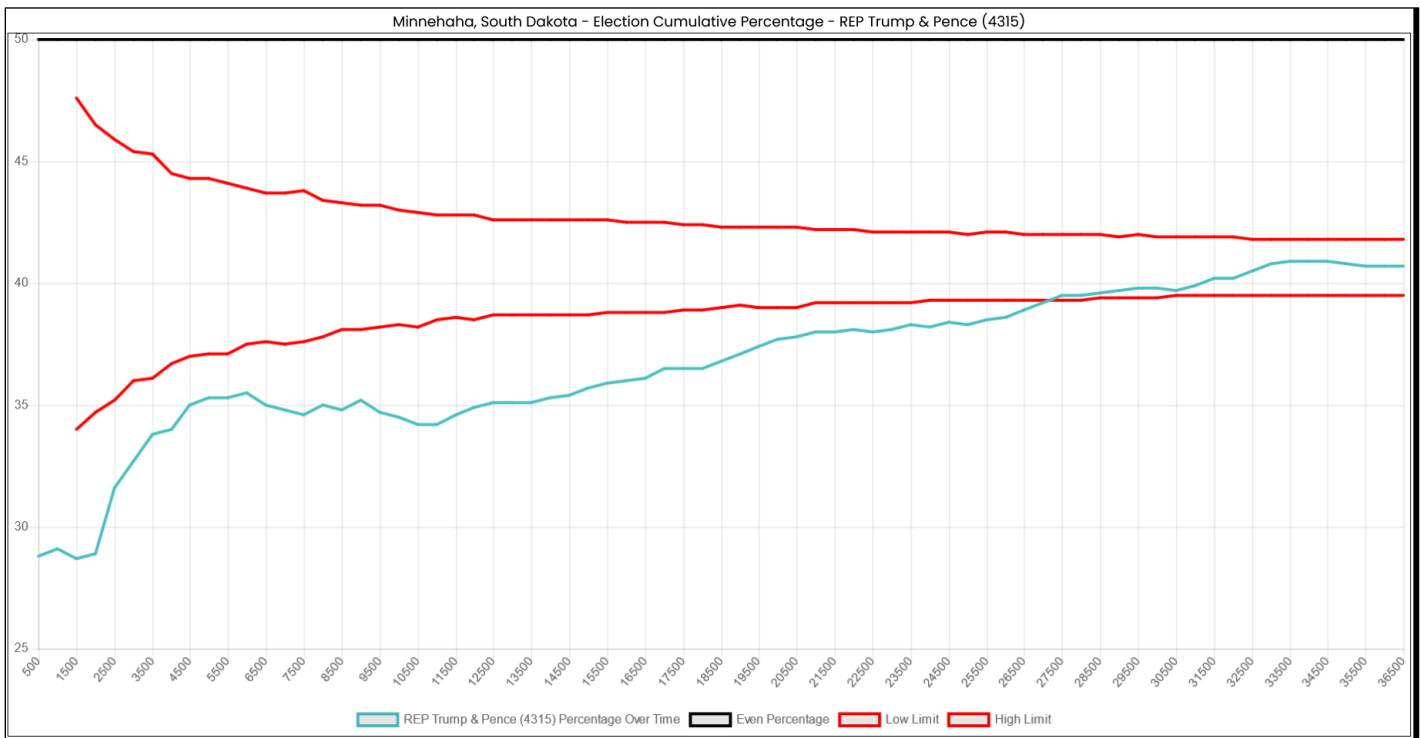
The three criteria of the Mesa pattern are:

1. The cumulative percent of the "tested candidate" (in our example, President Trump) hits a low within the first 40% of the counting of Mail-in ballots, and after that point the cumulative percentage never falls below that point.
2. The graph of the cumulative percentage of the tested candidate generally rises upward from that point, with a possible "correction" seen.
3. The tested candidate's final percentage of the vote is 1.1x to 1.3x the percentage at the exact middle point of the vote.

The following graph shows President Trump's cumulative percentage throughout the counting of the mail-in ballots, using a block size of 500 votes. The numbers at the bottom are the number of mail-in votes counted between the two candidates at that point. The numbers on the left are the percent of the mail-in votes which President Trump was credited with at that point.

¹ https://en.wikipedia.org/wiki/2020_United_States_presidential_election_in_South_Dakota

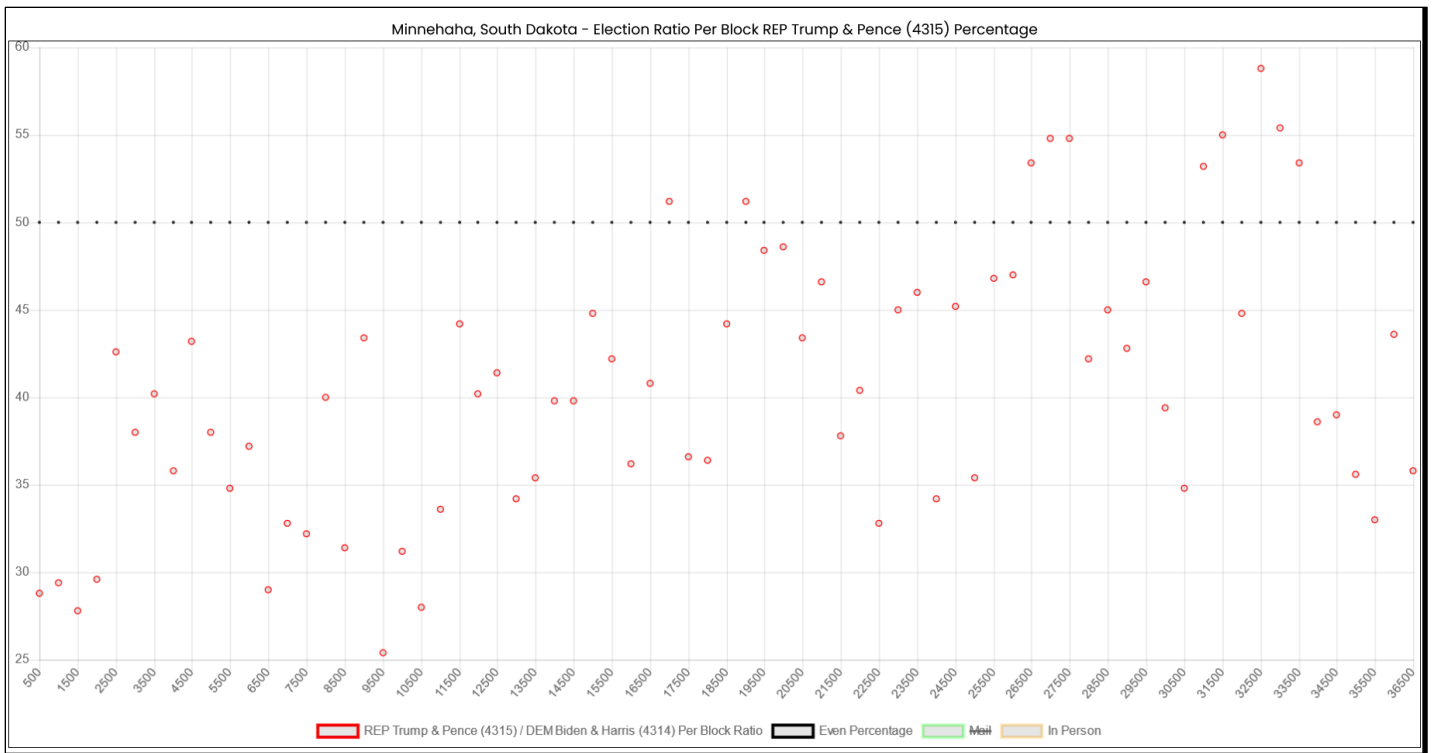
² <https://fingerprintsoffraud.com>



This graph shows that Minnehaha County satisfies all three of the Mesa Pattern criteria. President Trump hits a low point of 28.3% very early in the counting, and his percentage never drops below that again. The gradual rise is obvious from that point, with an apparent correction at the end (the dipping down of the percentage starting at 33,300 votes). Please note that votes at the end may include the counting of provisional ballots. Finally, the percentage reported for President Trump at the end of the counting of mail-in votes (40.7%) is 1.115x the percentage reported at the halfway point (36.5%).

The red lines indicate what we would expect to be the highest and lowest possible percentage at the given number of votes counted if the mail-in ballots are mostly random and unmanipulated (given the final percentage). These lines are used as a general guideline to spot results which differ greatly from what is expected. In Minnehaha County, it is evident that there are a lot more Biden votes (or a lot less Trump votes) than we should see.

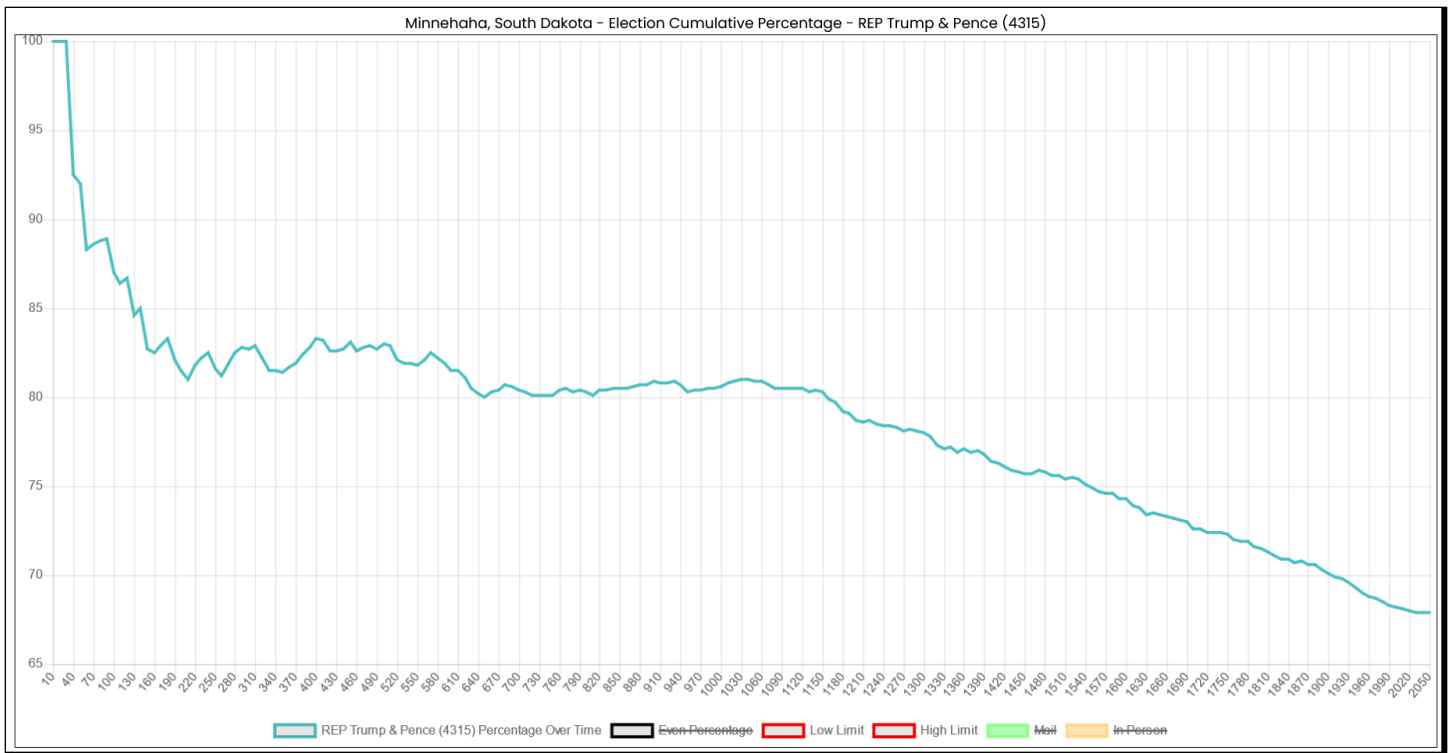
Examining the ratio of votes for President Trump in each consecutive 100 ballot block demonstrates the general upward movement, rather than a random “cliff and valley” look.



It is remarkable that after 11,000 votes President Trump had no further 500 vote blocks under 36.5%, and after 25,000 votes never had a block under 40% until the “correction” at the end. This is the typical gradual pattern seen in the other counties.

The Senate race between Mike Rounds and Dan Ahlers also shows a very similar pattern. Interestingly, of the contested State Senate races, Districts 9 and 15 show a Mesa pattern in their mail-in votes, while Districts D11, D13 and D14 do not.

Large precincts (of 2,000 voters or more) can also show unusual patterns, and within a precinct there can be an expectation of fairly random participation by the voters on election day. In precinct VP02, despite the trend towards President Trump referenced above, the cumulative percentage of Trump votes actually dropped 13% between the middle of the counting to the end. This would imply that on election day Democrats waited and voted later in the day than Republicans (in general). Records of the VP02 precinct might cast some light on that if they still exist. The following chart shows the Trump percentage over the course of the counting. Please note that only about 20 votes at the tail end were mail-in votes.

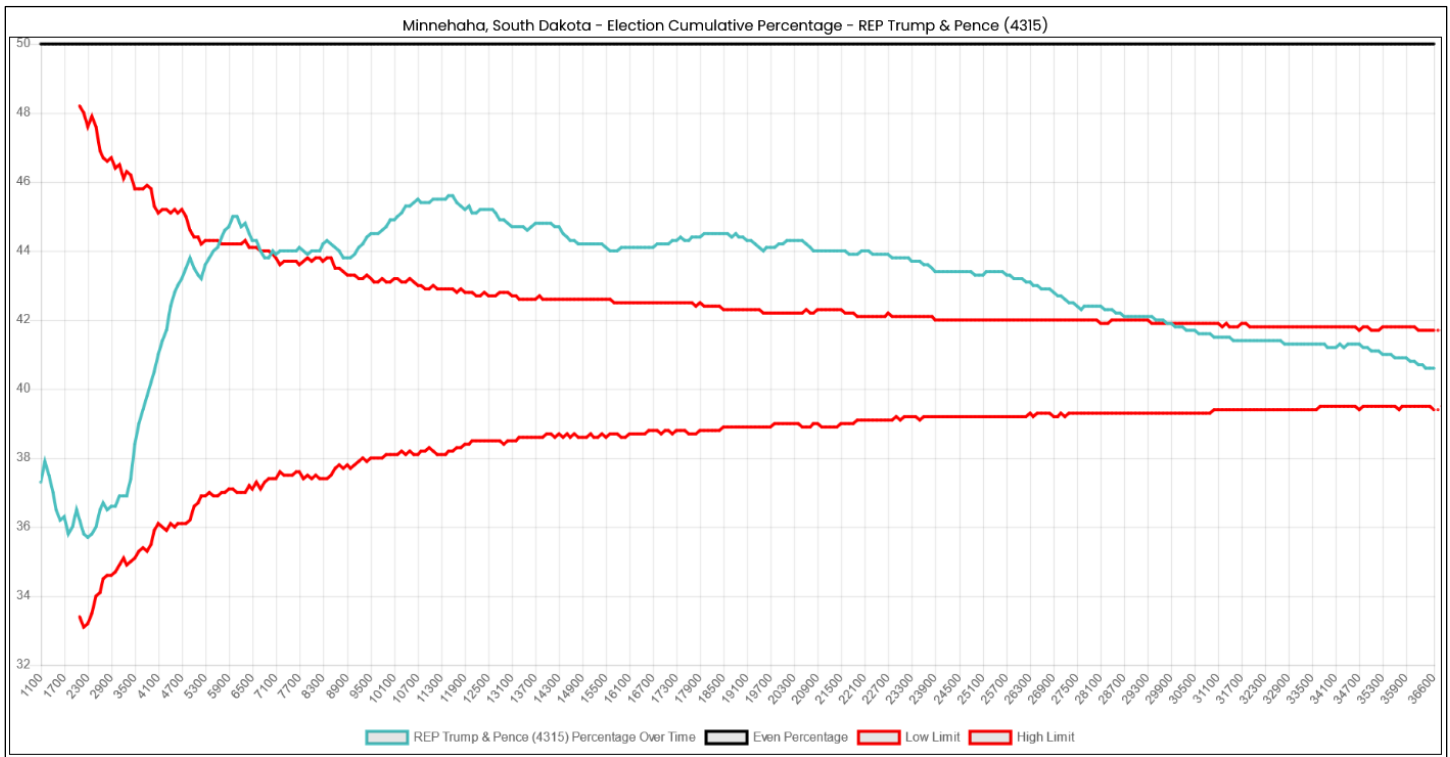


From all of the above findings, Minnehaha County joins over 180 other counties across the country in which I have observed the unnatural Mesa Pattern, showing that a software algorithm was used to manipulate vote data.

REVERSED ELECTION ANALYSIS

Another analysis that I perform is less scientific but has proven to yield very consistent results among Mesa pattern counties. If I make the assumption, based upon my research, that the mail-in votes at the *end portion* of the counting are more valid than votes at the *start portion*, viewing the count in reverse should give an idea of what the organic vote might have looked like. Of course, the caveat is that my research into the Mesa County, Colorado and Maricopa County, Arizona election servers does show a constant manipulation, however the bulk of that manipulation does appear to be in the first half of the mail-in counting.

Viewing the same graph as the one above but in reverse shows this interesting pattern.



As we are viewing the data in reverse, it can be seen that the percentage of the vote credited to President Trump seems to be trying to stabilize at around 44% until about the halfway point, when it begins a steady decline. 44% is 3.4% higher than the reported final percentage of 40.6%. If one theorizes that the 44% is the minimum actual mail-in vote percentage for President Trump, this will mean that manipulation caused a minimum 1,248 votes “missing” for him (or the same amount added to Biden’s totals). If this happened as the result of switched votes, it would mean an actual swing of 6.8% in favor of Biden. That number is important because it falls in line with many of the other Mesa pattern counties (6 to 10 %). This is a benchmark which attempts to estimate the minimum impact of the manipulation seen in the county.

VOTER DEFECTION ANALYSIS

My research, which has analyzed millions of votes in recent elections, has found that an average of about 4-6% of voters split their ticket, i.e. do not vote for all candidates of one declared party. Between federal and state candidates this number is even less. Thus, when it is observed that significantly more voters “defected” from their party, it could be an indication of votes being manipulated. I refer to a voter who votes for candidate ‘A’ in one party and candidate ‘B’ from the other party as a “Defector”, especially when dealing with the top-level races.

In Minnehaha, there are a great deal of defections as recorded in the Cast Vote Record. 52,773 voters voted for Republican Mike Rounds for Senator (which is in and of itself surprising, being 12,291 votes higher than President Trump’s total). The Cast Vote Record allows us to dig deeper, showing that of those 52,773 voters, 6,191 (11.7%) voted for someone other than President Trump, while 2,865 (5.4%) voted for Biden. Please note that undervotes (where there was no selection) are not included in these calculations.

Likewise, Republican Gary Hanson received 55,108 votes for Public Utilities Commissioner (2,335 more than received by Senator Rounds and 5,859 more than President Trump). Of those voters, 10,802 (19.8%) did not vote for President Trump and 8,907 (16.2%) did not vote for Senator Rounds.

This pattern continues among the Republican candidates, and in total 15.2% of voters who voted for a Republican Candidate voted for someone other than President Trump (6.5% voted for Biden), and 11.2% voted for someone other than Senator Rounds (6.2% voted for Democrat Dan Ahlers).

The possible conclusion I reach from this is that an algorithm that re-ordered and changed votes created inconsistencies in individual ballots, and those inconsistencies are uncovered by the Voter Defection Analysis. Local analysis of the candidates and their support bases, platforms, and advertising is encouraged.

**APPENDIX
PRECINCT TOTALS FROM CAST VOTE RECORDS**

Precinct	Candidate	Mail	In Person	Total
Precinct-0103	DEM Biden & Harris (4314)	137	383	520
Precinct-0103	REP Trump & Pence (4315)	218	302	520
Precinct-0104/0105	DEM Biden & Harris (4314)	279	556	835
Precinct-0104/0105	REP Trump & Pence (4315)	387	355	742
Precinct-0106	DEM Biden & Harris (4314)	263	382	645
Precinct-0106	REP Trump & Pence (4315)	452	268	720
Precinct-0109	DEM Biden & Harris (4314)	264	356	620
Precinct-0109	REP Trump & Pence (4315)	467	193	660
Precinct-0110	DEM Biden & Harris (4314)	285	374	659
Precinct-0110	REP Trump & Pence (4315)	568	195	763
Precinct-0117	DEM Biden & Harris (4314)	312	344	656
Precinct-0117	REP Trump & Pence (4315)	639	252	891
Precinct-0201	DEM Biden & Harris (4314)	141	480	621
Precinct-0201	REP Trump & Pence (4315)	393	307	700
Precinct-0202	DEM Biden & Harris (4314)	250	568	818
Precinct-0202	REP Trump & Pence (4315)	489	299	788
Precinct-0203	DEM Biden & Harris (4314)	251	405	656
Precinct-0203	REP Trump & Pence (4315)	397	192	589
Precinct-0206	DEM Biden & Harris (4314)	255	411	666
Precinct-0206	REP Trump & Pence (4315)	497	216	713
Precinct-0207	DEM Biden & Harris (4314)	396	648	1,044
Precinct-0207	REP Trump & Pence (4315)	936	461	1,397
Precinct-0208	DEM Biden & Harris (4314)	204	433	637
Precinct-0208	REP Trump & Pence (4315)	419	308	727
Precinct-0209	DEM Biden & Harris (4314)	226	380	606
Precinct-0209	REP Trump & Pence (4315)	349	217	566
Precinct-0214	DEM Biden & Harris (4314)	485	1,006	1,491
Precinct-0214	REP Trump & Pence (4315)	1,017	686	1,703

Precinct-0305	DEM Biden & Harris (4314)	184	333	517
Precinct-0305	REP Trump & Pence (4315)	250	244	494
Precinct-0306	DEM Biden & Harris (4314)	318	293	611
Precinct-0306	REP Trump & Pence (4315)	314	133	447
Precinct-0309	DEM Biden & Harris (4314)	388	515	903
Precinct-0309	REP Trump & Pence (4315)	541	482	1,023
Precinct-0310	DEM Biden & Harris (4314)	285	430	715
Precinct-0310	REP Trump & Pence (4315)	622	325	947
Precinct-0311	DEM Biden & Harris (4314)	187	258	445
Precinct-0311	REP Trump & Pence (4315)	437	166	603
Precinct-0312	DEM Biden & Harris (4314)	308	303	611
Precinct-0312	REP Trump & Pence (4315)	598	264	862
Precinct-0313	DEM Biden & Harris (4314)	160	198	358
Precinct-0313	REP Trump & Pence (4315)	373	115	488
Precinct-0314	DEM Biden & Harris (4314)	377	524	901
Precinct-0314	REP Trump & Pence (4315)	741	333	1,074
Precinct-0315	DEM Biden & Harris (4314)	250	373	623
Precinct-0315	REP Trump & Pence (4315)	471	219	690
Precinct-0316	DEM Biden & Harris (4314)	355	447	802
Precinct-0316	REP Trump & Pence (4315)	874	322	1,196
Precinct-0317	DEM Biden & Harris (4314)	419	599	1,018
Precinct-0317	REP Trump & Pence (4315)	891	421	1,312
Precinct-0401/0414	DEM Biden & Harris (4314)	288	882	1,170
Precinct-0401/0414	REP Trump & Pence (4315)	341	819	1,160
Precinct-0402	DEM Biden & Harris (4314)	230	213	443
Precinct-0402	REP Trump & Pence (4315)	251	104	355
Precinct-0403	DEM Biden & Harris (4314)	163	117	280
Precinct-0403	REP Trump & Pence (4315)	184	53	237
Precinct-0404	DEM Biden & Harris (4314)	246	189	435
Precinct-0404	REP Trump & Pence (4315)	307	104	411

Precinct-0405	DEM Biden & Harris (4314)	229	1,021	1,250
Precinct-0405	REP Trump & Pence (4315)	399	1,329	1,728
Precinct-0406	DEM Biden & Harris (4314)	93	96	189
Precinct-0406	REP Trump & Pence (4315)	154	33	187
Precinct-0407/0408	DEM Biden & Harris (4314)	400	647	1,047
Precinct-0407/0408	REP Trump & Pence (4315)	581	382	963
Precinct-0409	DEM Biden & Harris (4314)	229	245	474
Precinct-0409	REP Trump & Pence (4315)	334	110	444
Precinct-0410	DEM Biden & Harris (4314)	217	247	464
Precinct-0410	REP Trump & Pence (4315)	403	125	528
Precinct-0411	DEM Biden & Harris (4314)	344	532	876
Precinct-0411	REP Trump & Pence (4315)	760	428	1,188
Precinct-0412	DEM Biden & Harris (4314)	326	370	696
Precinct-0412	REP Trump & Pence (4315)	453	212	665
Precinct-0413	DEM Biden & Harris (4314)	229	211	440
Precinct-0413	REP Trump & Pence (4315)	248	90	338
Precinct-0501/0502	DEM Biden & Harris (4314)	731	179	910
Precinct-0501/0502	REP Trump & Pence (4315)	425	66	491
Precinct-0503	DEM Biden & Harris (4314)	120	145	265
Precinct-0503	REP Trump & Pence (4315)	136	44	180
Precinct-0504	DEM Biden & Harris (4314)	263	374	637
Precinct-0504	REP Trump & Pence (4315)	198	131	329
Precinct-0506	DEM Biden & Harris (4314)	281	332	613
Precinct-0506	REP Trump & Pence (4315)	360	152	512
Precinct-0507	DEM Biden & Harris (4314)	156	238	394
Precinct-0507	REP Trump & Pence (4315)	172	85	257
Precinct-0508	DEM Biden & Harris (4314)	655	4	659
Precinct-0508	REP Trump & Pence (4315)	343	2	345
Precinct-0509	DEM Biden & Harris (4314)	175	124	299
Precinct-0509	REP Trump & Pence (4315)	142	51	193

Precinct-0510	DEM Biden & Harris (4314)	181	192	373
Precinct-0510	REP Trump & Pence (4315)	216	75	291
Precinct-0511	DEM Biden & Harris (4314)	178	221	399
Precinct-0511	REP Trump & Pence (4315)	262	115	377
Precinct-0512	DEM Biden & Harris (4314)	165	279	444
Precinct-0512	REP Trump & Pence (4315)	256	104	360
Precinct-0513	DEM Biden & Harris (4314)	134	256	390
Precinct-0513	REP Trump & Pence (4315)	209	113	322
Precinct-0514	DEM Biden & Harris (4314)	241	270	511
Precinct-0514	REP Trump & Pence (4315)	290	111	401
Precinct-0517	DEM Biden & Harris (4314)	141	181	322
Precinct-0517	REP Trump & Pence (4315)	192	112	304
Precinct-0518	DEM Biden & Harris (4314)	295	437	732
Precinct-0518	REP Trump & Pence (4315)	304	164	468
Precinct-0519	DEM Biden & Harris (4314)	136	157	293
Precinct-0519	REP Trump & Pence (4315)	189	88	277
Precinct-0520	DEM Biden & Harris (4314)	513	18	531
Precinct-0520	REP Trump & Pence (4315)	508	12	520
Precinct-0521	DEM Biden & Harris (4314)	79	185	264
Precinct-0521	REP Trump & Pence (4315)	137	63	200
Precinct-VP01	DEM Biden & Harris (4314)	132	88	220
Precinct-VP01	REP Trump & Pence (4315)	497	94	591
Precinct-VP02	DEM Biden & Harris (4314)	651	4	655
Precinct-VP02	REP Trump & Pence (4315)	1,382	6	1,388
Precinct-VP03	DEM Biden & Harris (4314)	817	8	825
Precinct-VP03	REP Trump & Pence (4315)	1,633	2	1,635
Precinct-VP04	DEM Biden & Harris (4314)	308	90	398
Precinct-VP04	REP Trump & Pence (4315)	789	45	834
Precinct-VP05	DEM Biden & Harris (4314)	249	285	534
Precinct-VP05	REP Trump & Pence (4315)	802	283	1,085

Precinct-VP06	DEM Biden & Harris (4314)	52	142	194
Precinct-VP06	REP Trump & Pence (4315)	266	133	399
Precinct-VP07	DEM Biden & Harris (4314)	314	302	616
Precinct-VP07	REP Trump & Pence (4315)	1,011	318	1,329
Precinct-VP08	DEM Biden & Harris (4314)	144	61	205
Precinct-VP08	REP Trump & Pence (4315)	418	102	520
Precinct-VP09	DEM Biden & Harris (4314)	225	216	441
Precinct-VP09	REP Trump & Pence (4315)	765	223	988
Precinct-VP10	DEM Biden & Harris (4314)	253	166	419
Precinct-VP10	REP Trump & Pence (4315)	746	120	866
Precinct-VP11	DEM Biden & Harris (4314)	136	145	281
Precinct-VP11	REP Trump & Pence (4315)	573	133	706
Precinct-VP12	DEM Biden & Harris (4314)	19	11	30
Precinct-VP12	REP Trump & Pence (4315)	93	31	124
Precinct-VP13	DEM Biden & Harris (4314)	155	99	254
Precinct-VP13	REP Trump & Pence (4315)	652	96	748
Precinct-VP15	DEM Biden & Harris (4314)	281	358	639
Precinct-VP15	REP Trump & Pence (4315)	868	285	1,153
Precinct-VP16	DEM Biden & Harris (4314)	221	129	350
Precinct-VP16	REP Trump & Pence (4315)	678	149	827
Precinct-VP17	DEM Biden & Harris (4314)	130	87	217
Precinct-VP17	REP Trump & Pence (4315)	392	121	513
Precinct-VP21	DEM Biden & Harris (4314)	216	210	426
Precinct-VP21	REP Trump & Pence (4315)	720	177	897