

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

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December 12, 2021

Mail-in ballots arrive at the counting center randomly from all 249 precincts¹ in Pima County, Arizona, are stored, and then are later counted. For the November 3, 2020, election 526,319 ballot records are listed in the “2020 General Election Post Election CVR (Cast Vote Record) Aggregate” file, with CVR sequence numbers 1 through 526,332. (Thirteen of those numbers do not appear, confirming that the total number of Cast Vote Records is 526,319, which equals 526,332 minus 13.)

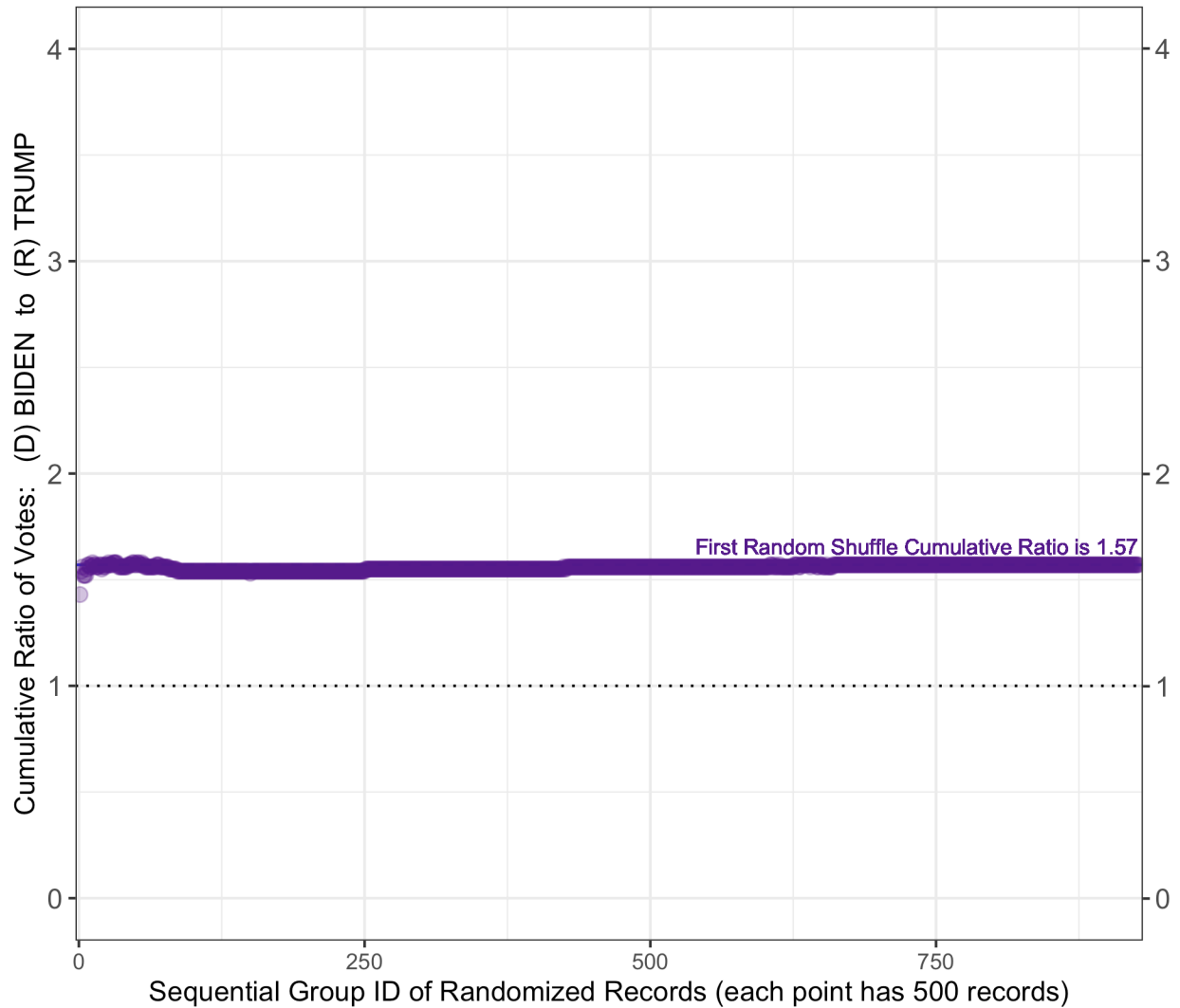
Although early mail-in ballots arrive randomly, on election day ballots do not arrive at random, but are counted in precinct batches. Thus, by looking to see where in the CVR file consecutive ballots are all from the same precinct, we can determine the point at which election day counting began. The first batch of ballots with consecutive precinct numbers starts with CVR# 413,241 for precinct 208, so the mail-in ballots which arrived prior to election day are CVR# 1 through 413,239 (since CVR# 463,240 is one of the 13 missing numbers).

To reiterate, early voters’ ballots are mailed from all over the county (and indeed from wherever in the world the early voters deposited their ballots into the postal system) in no particular order, they take varying paths through the postal system, and they finally arrive at the counting center *in random order*. That means that for CVR# 1 through 413,239 there should be *no pattern* as to the candidates voted for, and furthermore, since the ballots arrived randomly, they could be shuffled and recounted to reach the same result.

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

¹ Technically, the “precinct number” 1 to 249 in the CVR file is a *voting district* which is determined by actual precinct, U. S. House district, state Senate district, Board of Supervisors district, school district, etc.; each voting district requires a unique ballot. However, following common usage, we will also call these voting districts “precincts”.

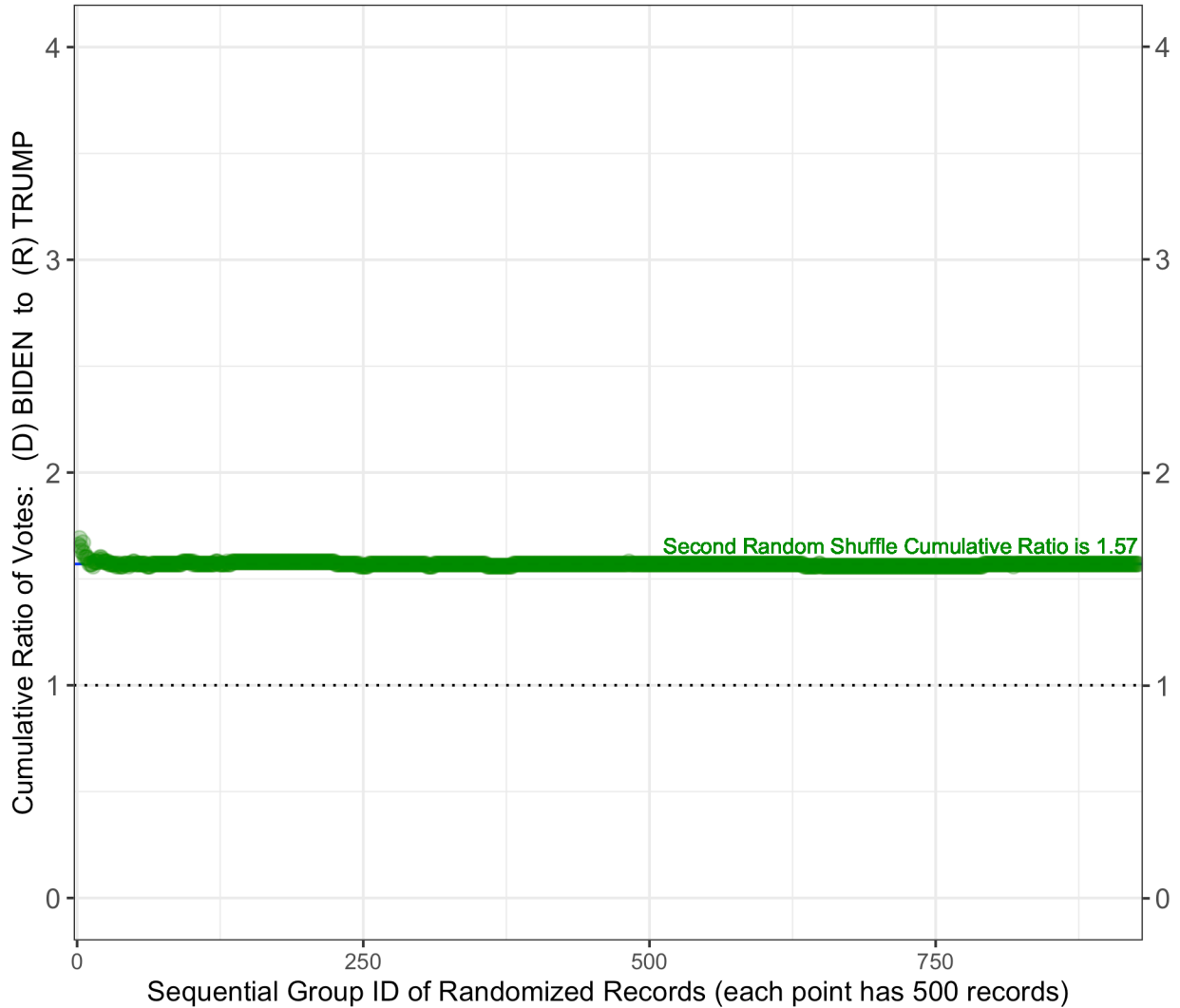
Cumulative Ratio of Votes: (D) BIDEN -to- (R) TRUMP
Contest: PRESIDENTIAL ELECTORS
for ALL Cast Vote Records before Election Day -- Random Shuffle 1
PIMA County 2020 -- Democrat = 60% Republican = 38% Ratio is 1.57



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

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

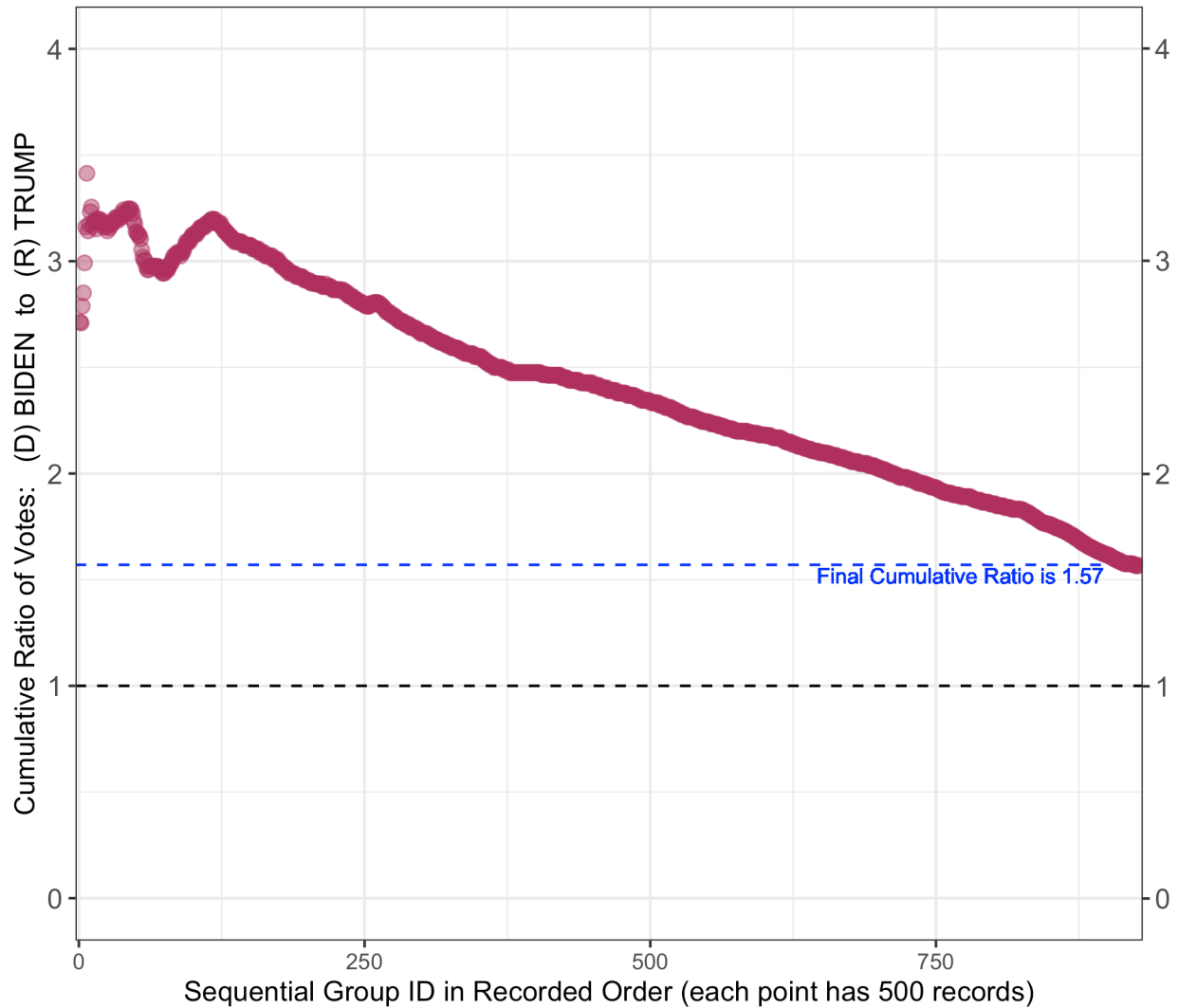
Cumulative Ratio of Votes: (D) BIDEN -to- (R) TRUMP
Contest: PRESIDENTIAL ELECTORS
for ALL Cast Vote Records before Election Day -- Random Shuffle 2
PIMA County 2020 -- Democrat = 60% Republican = 38% Ratio is 1.57



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

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

Cumulative Ratio of Votes: (D) BIDEN -to- (R) TRUMP
 Contest: PRESIDENTIAL ELECTORS
 for ALL Cast Vote Records before Election Day -- in Recorded Order
 PIMA County 2020 -- Final Ratio is 1.57



Not only is the red graph not essentially flat (as expected for randomly-arriving ballots), there is a huge and systematic decline in the cumulative Biden/Trump ratio overall as counting progresses, from over 300% down to 157%. Notice also the interesting twin-peak pattern which is not random. In other words, the early mail-in votes, which should be random, are reported with the first chunk of ballots being 75% for Biden, the next chunk of ballots being 70% for Biden, the next chunk of ballots being 65% for Biden, and so on, systematically declining all the way to election day.

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

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

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

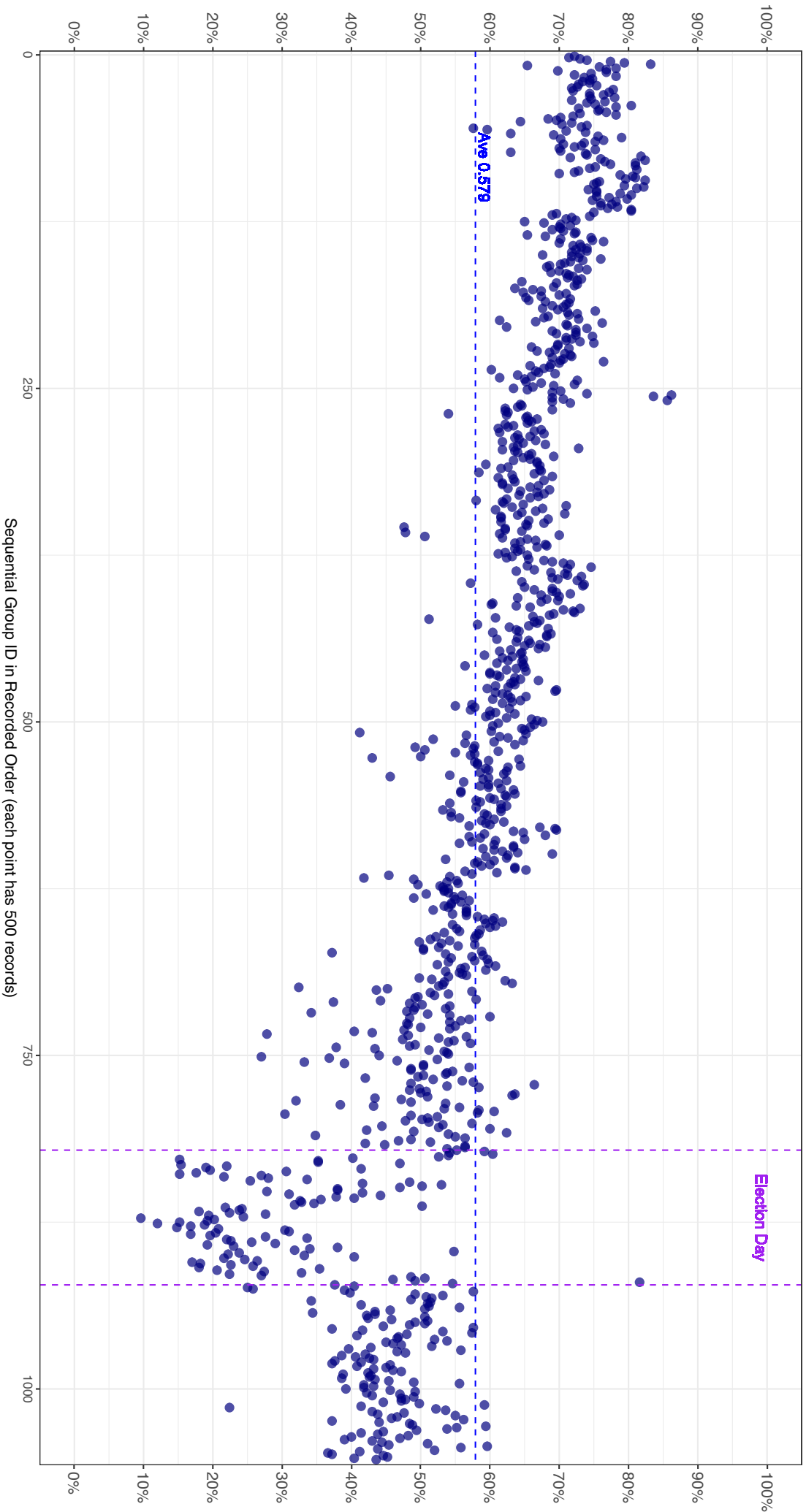
Not only is this progressive decline mathematically impossible for randomly-arriving mail-in ballots, it is also impossible that the ratios are the same as for the presidential race, given that down-ballot voting response is lower for legal citizens and not available at all for the non-citizens who voted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

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

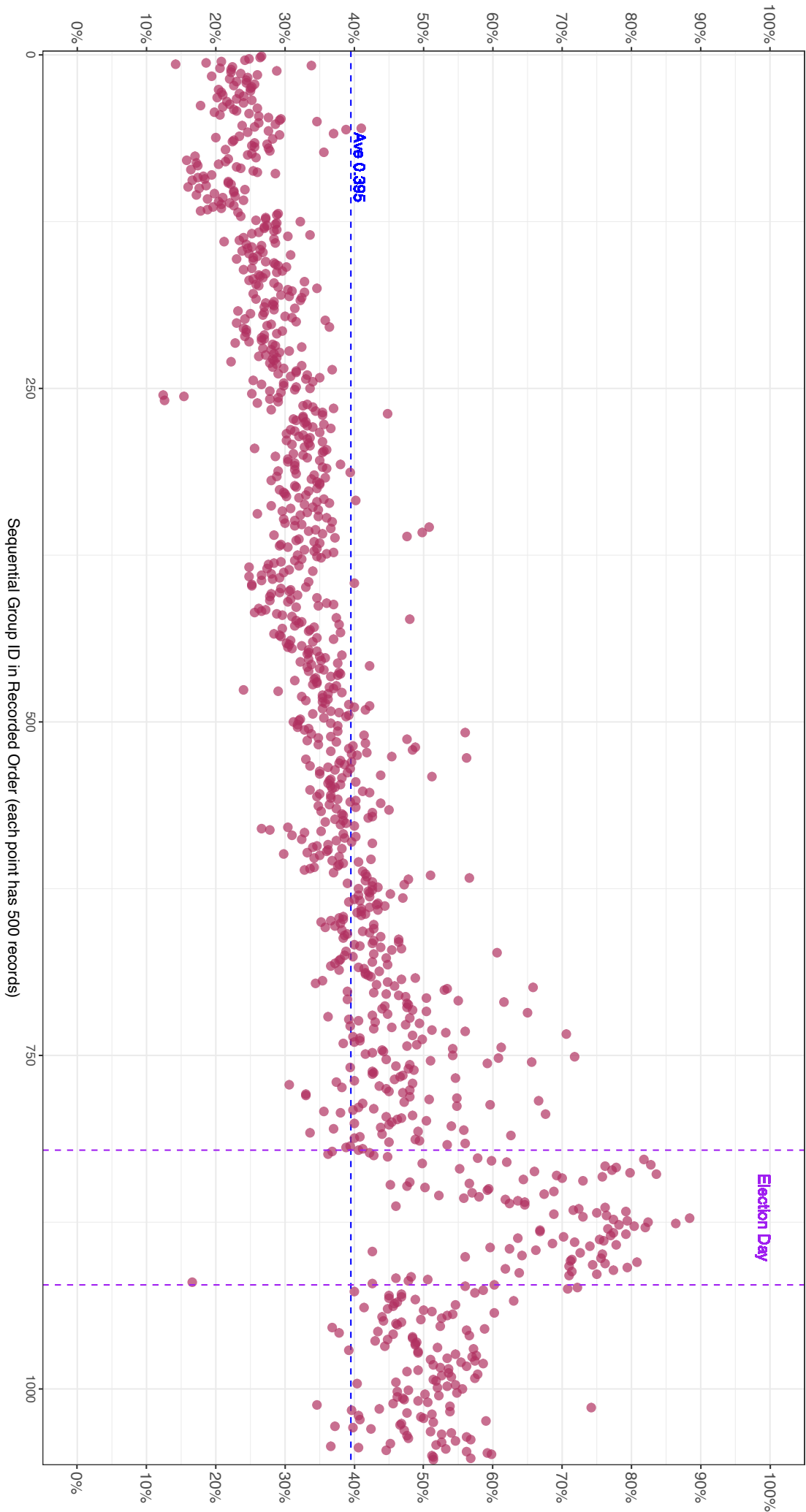
APPENDIX

The following pages graph all the candidate contests in Pima County. For each contest the first graph is the percentage of votes for the Democrat candidate by Sequential Group ID, the second graph is the percentage of votes for the Republican candidate by Sequential Group ID, and the third graph is the ratio of the cumulative votes for the Democrat candidate to the cumulative votes for the Republican candidate.

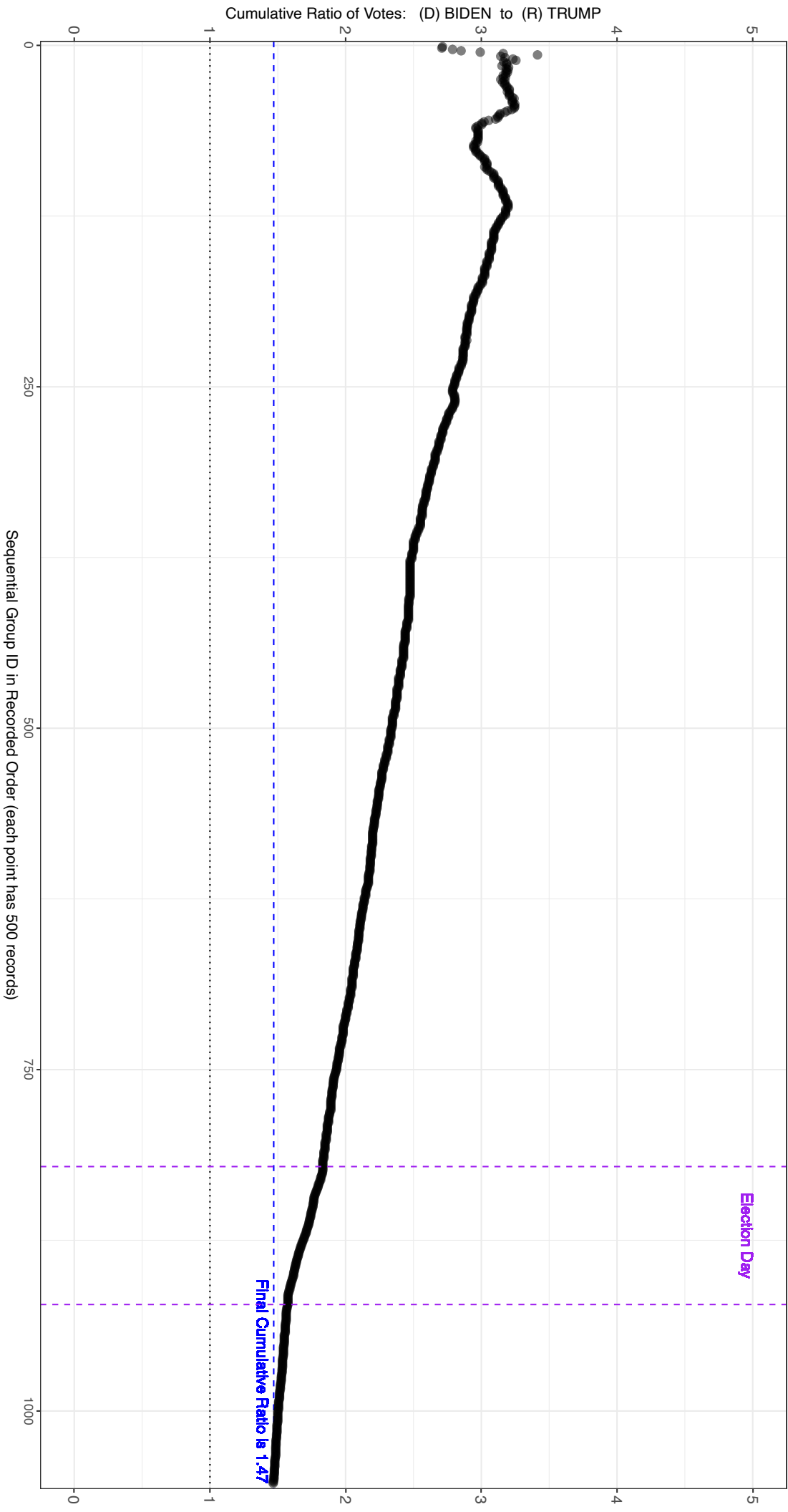
PRESIDENTIAL ELECTORS: (D) BIDEN
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.579



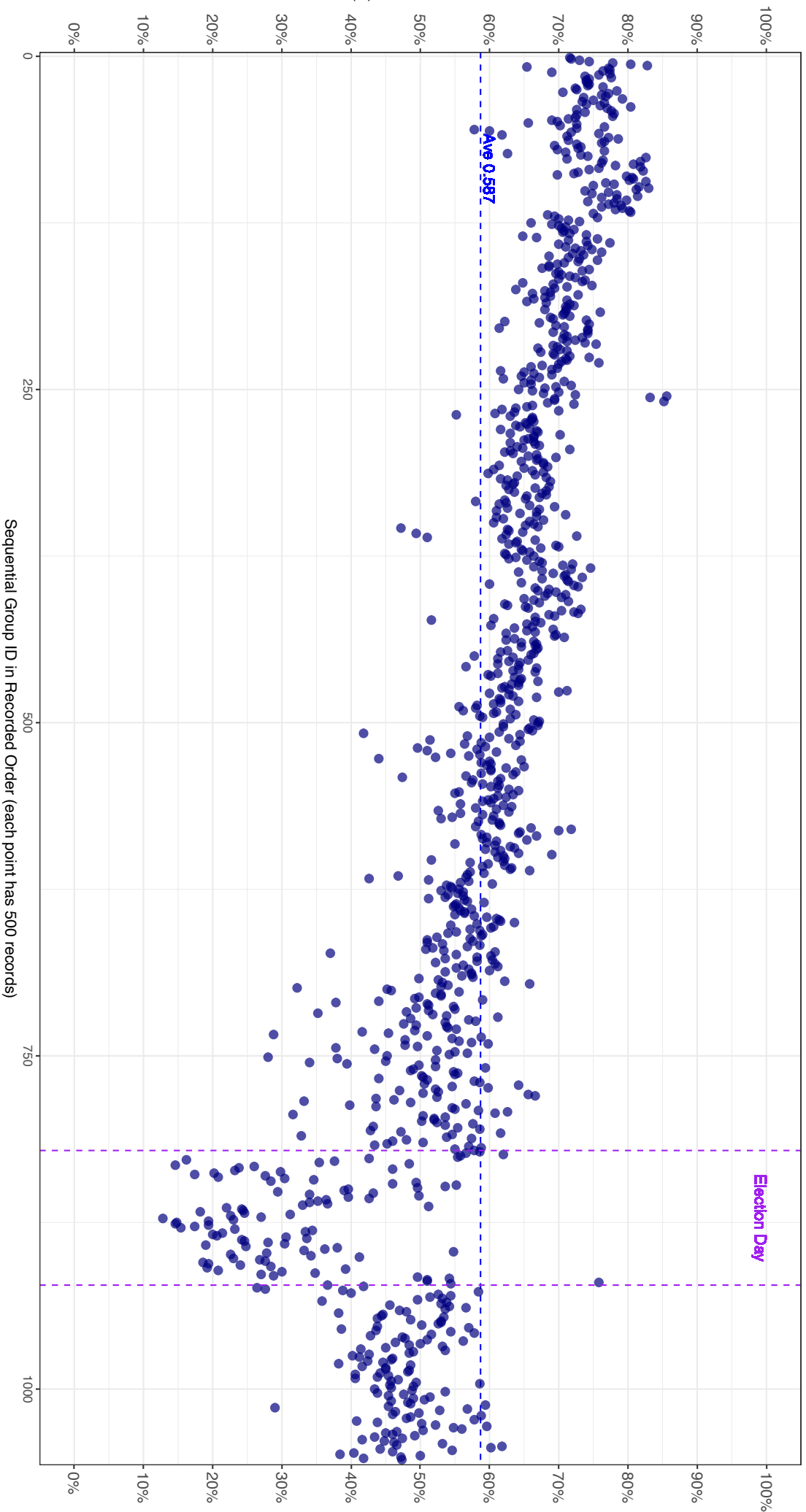
PRESIDENTIAL ELECTORS: (R) TRUMP
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.395



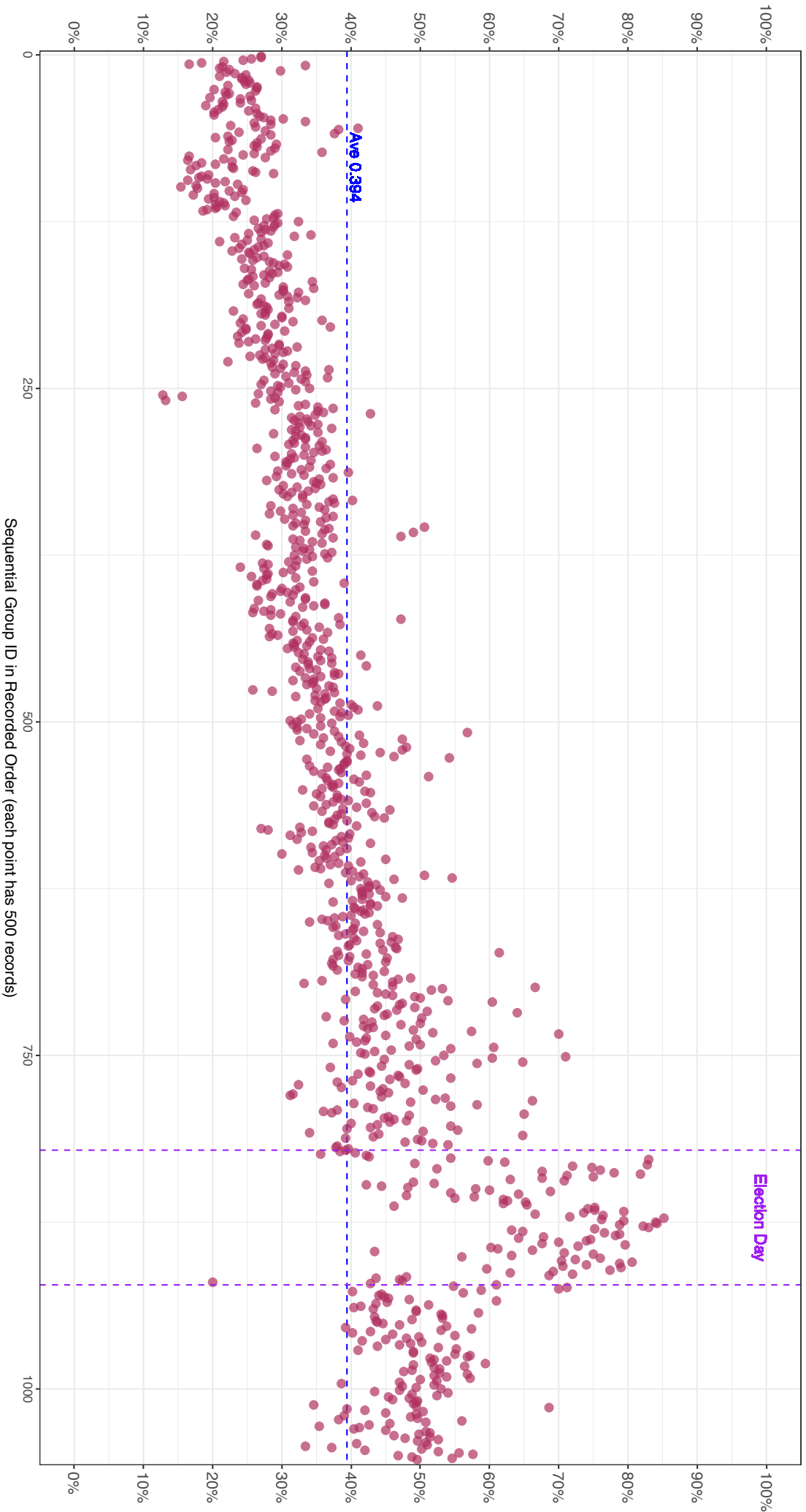
Cumulative Ratio of Votes: (D) BIDEN -to- (R) TRUMP
Contest: PRESIDENTIAL ELECTORS
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 1.47



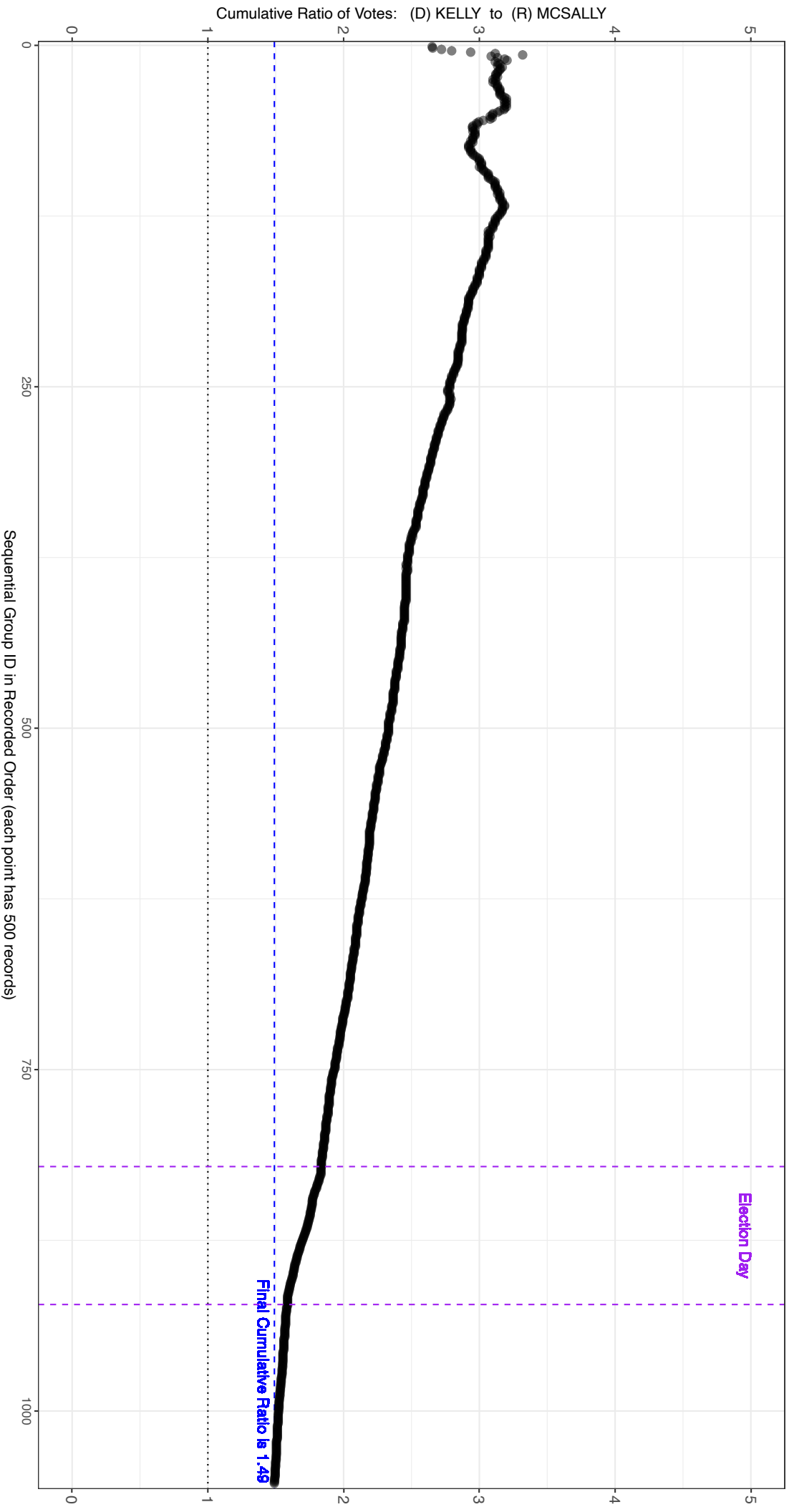
UNITED STATES SENATOR: (D) KELLY
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.587



UNITED STATES SENATOR: (R) MCSALLY
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.394

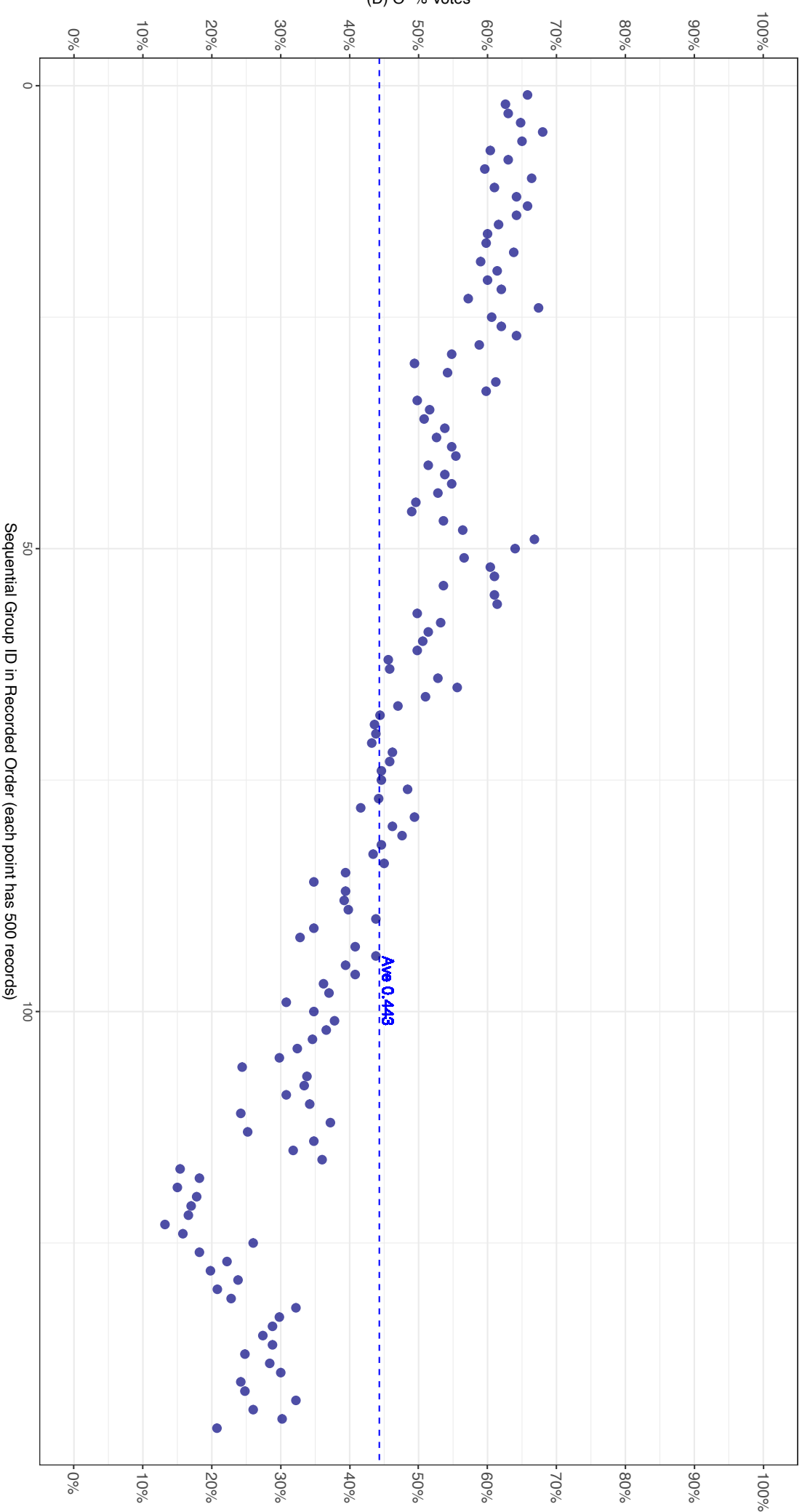


Cumulative Ratio of Votes: (D) KELLY -to- (R) MCSALLY
Contest: UNITED STATES SENATOR
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 1.49

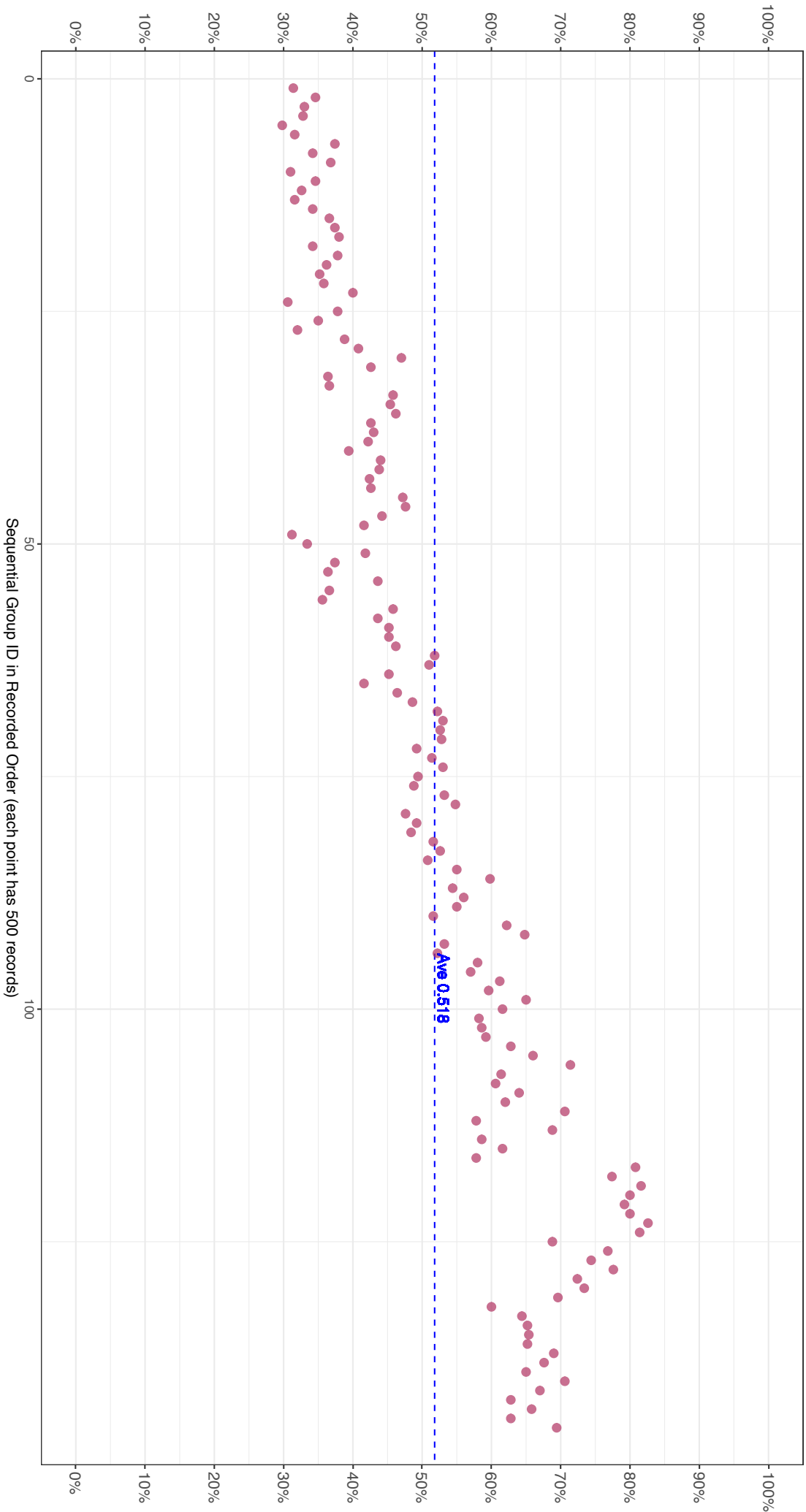


Sequential Group ID in Recorded Order (each point has 500 records)

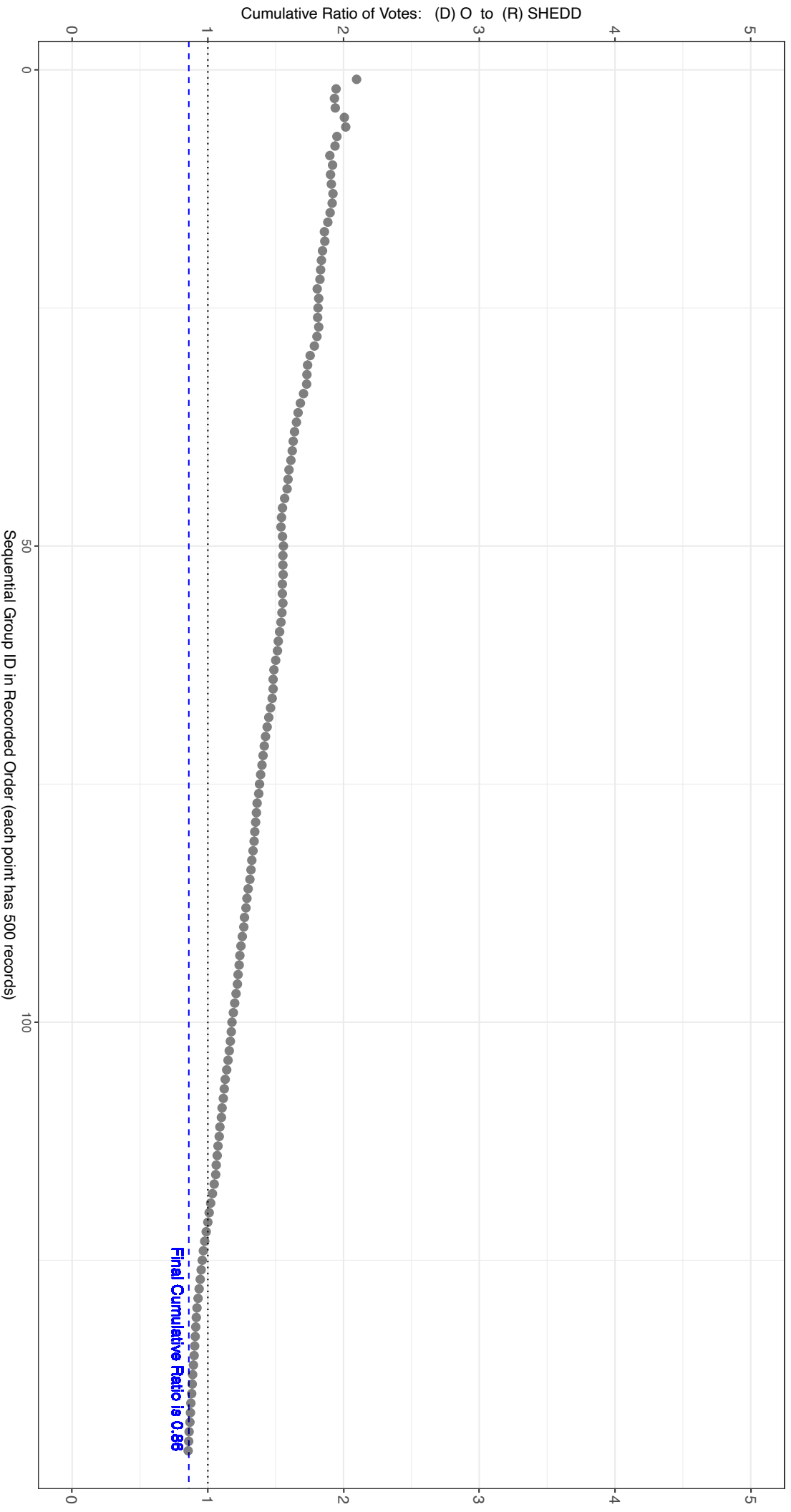
U.S. REPRESENTATIVE IN CONGRESS, DIST. 1: (D) O
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.443



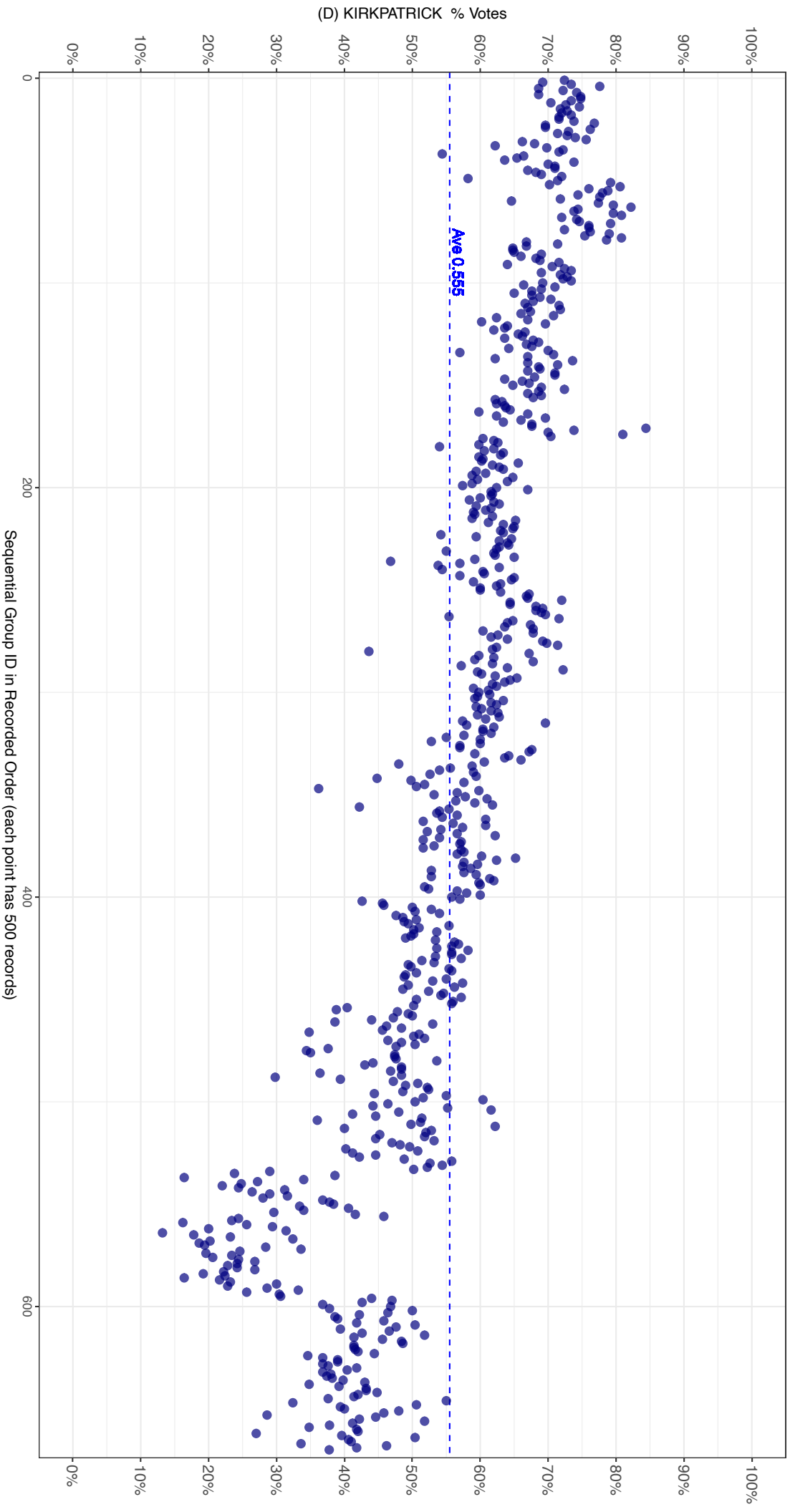
U.S. REPRESENTATIVE IN CONGRESS, DIST. 1: (R) SHEDD
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.518



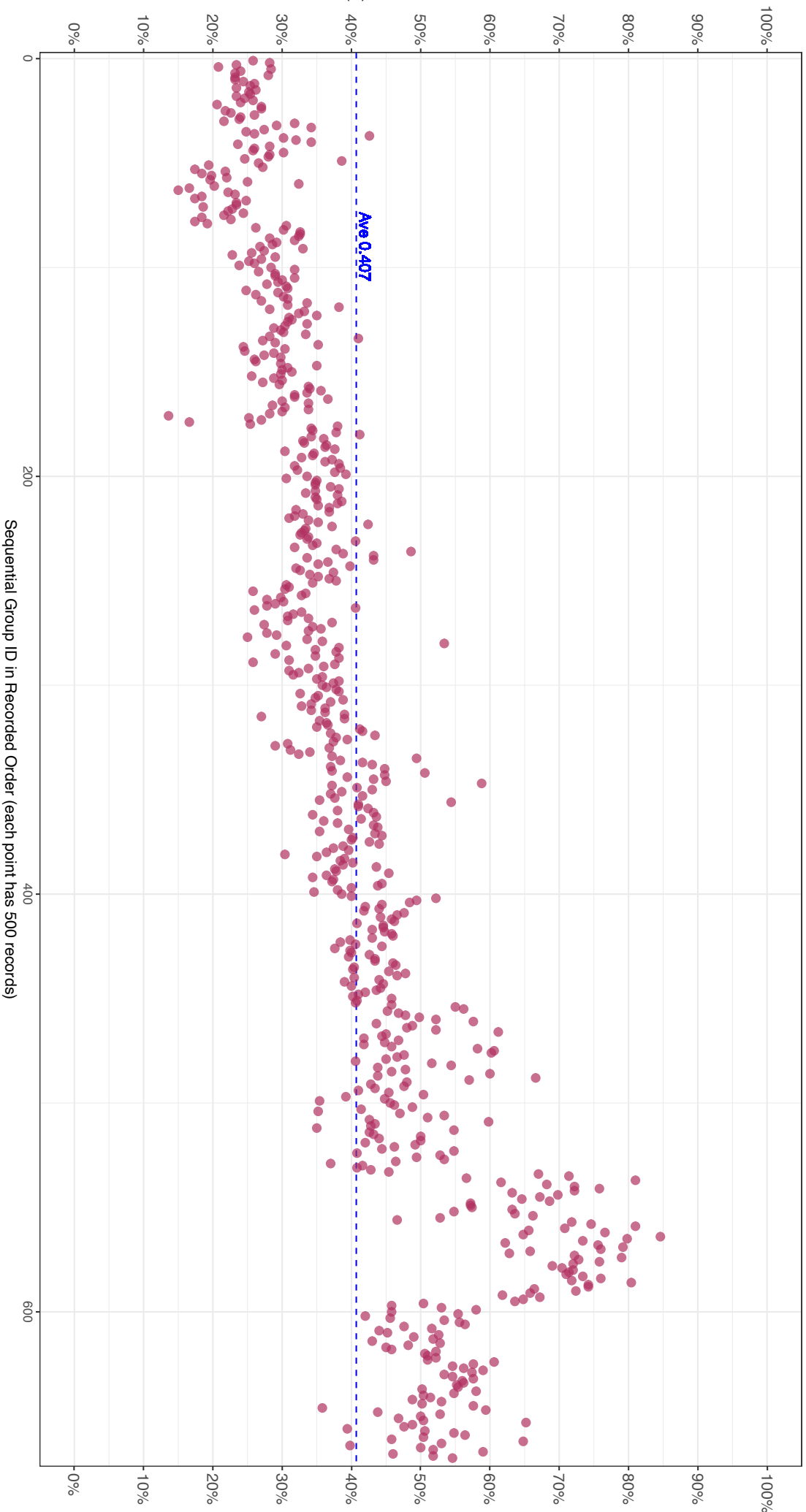
Cumulative Ratio of Votes: (D) O -to- (R) SHEDD
Contest: U.S. REPRESENTATIVE IN CONGRESS, DIST. 1
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 0.86



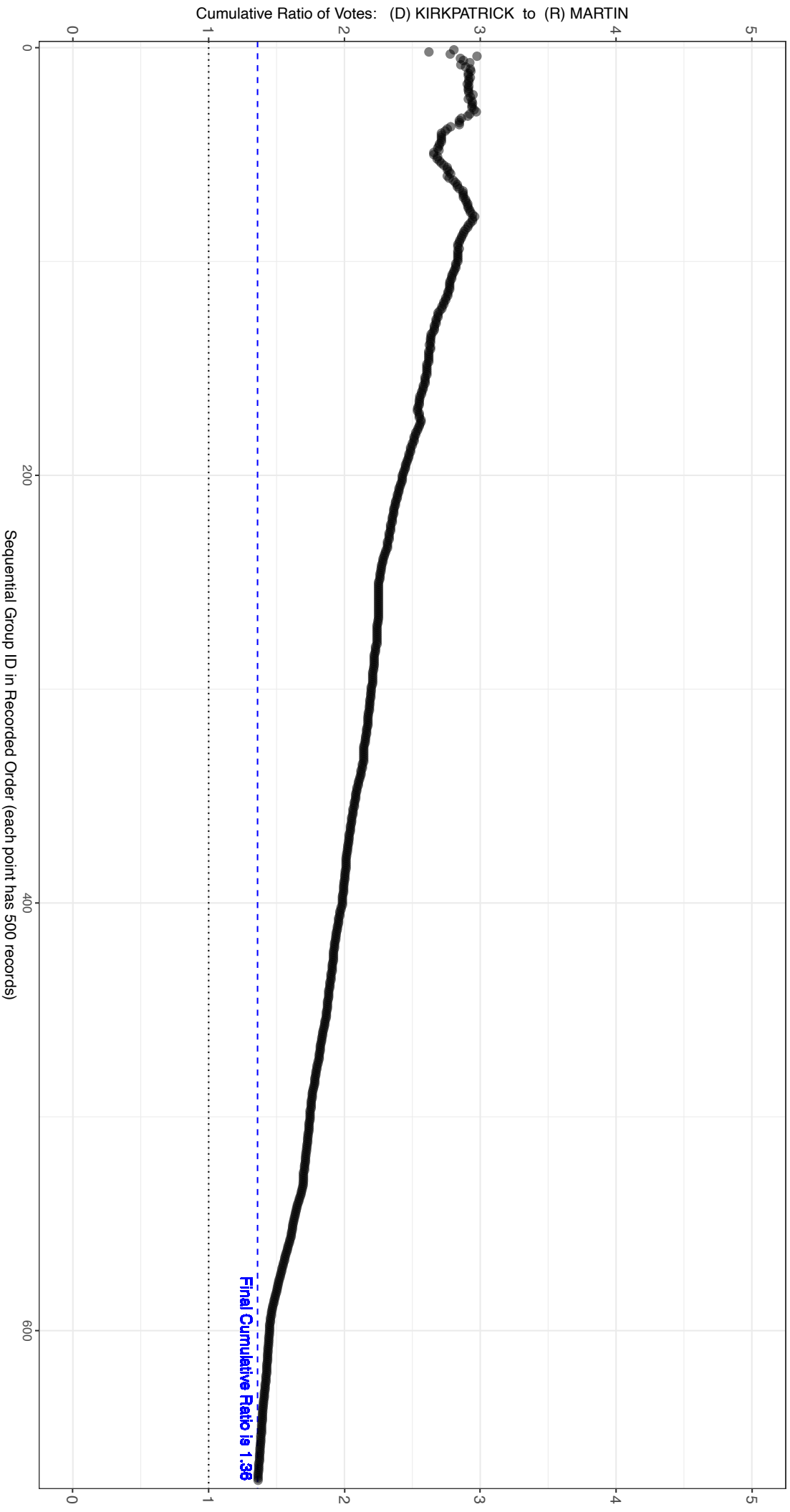
U.S. REPRESENTATIVE IN CONGRESS, DIST. 2: (D) KIRKPATRICK
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.555



U.S. REPRESENTATIVE IN CONGRESS, DIST. 2: (R) MARTIN
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.407

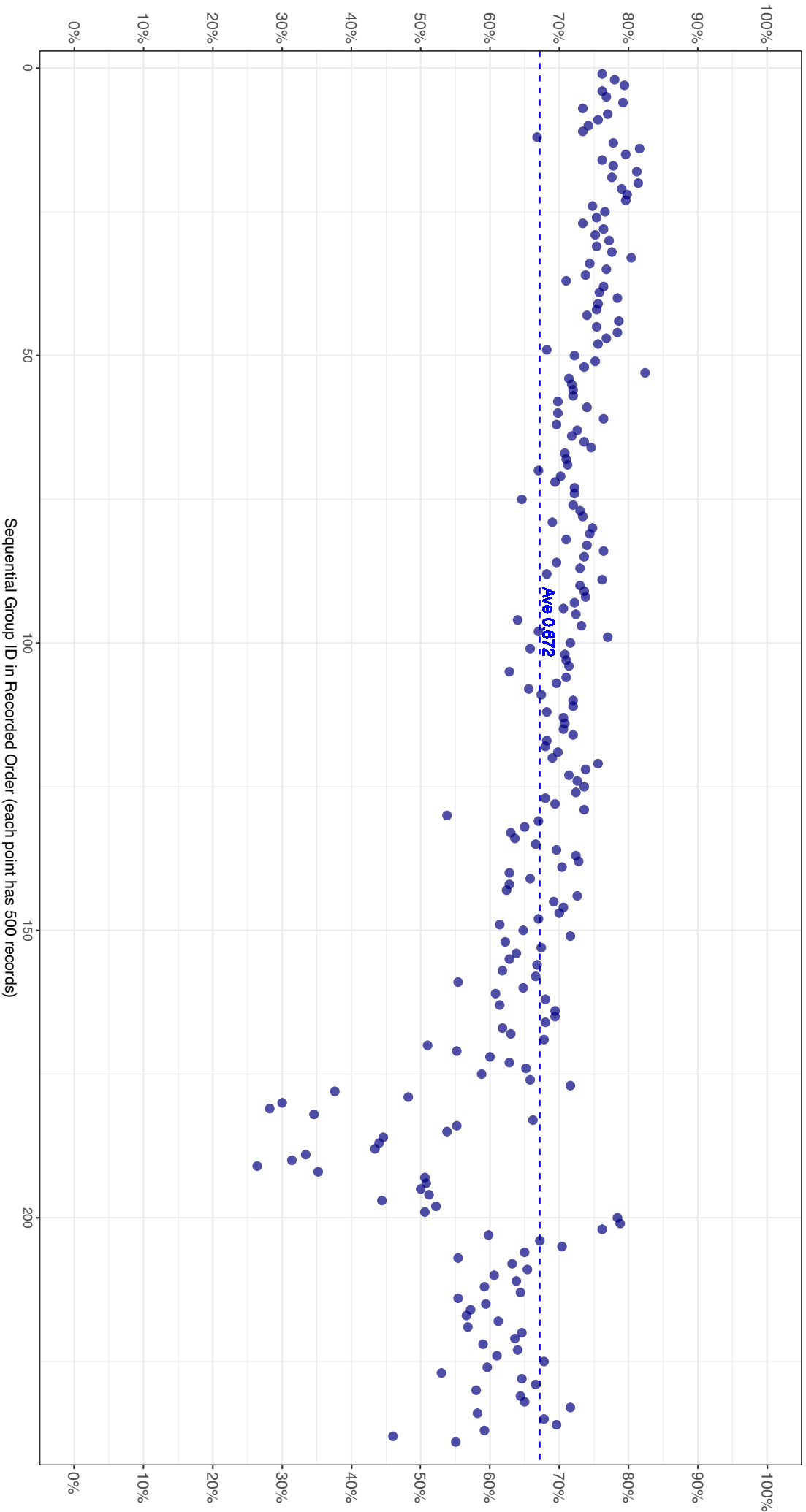


Cumulative Ratio of Votes: (D) KIRKPATRICK -to- (R) MARTIN
Contest: U.S. REPRESENTATIVE IN CONGRESS, DIST. 2
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 1.36



Sequential Group ID in Recorded Order (each point has 500 records)

U.S. REPRESENTATIVE IN CONGRESS, DIST. 3: (D) GRIJALVA
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.672

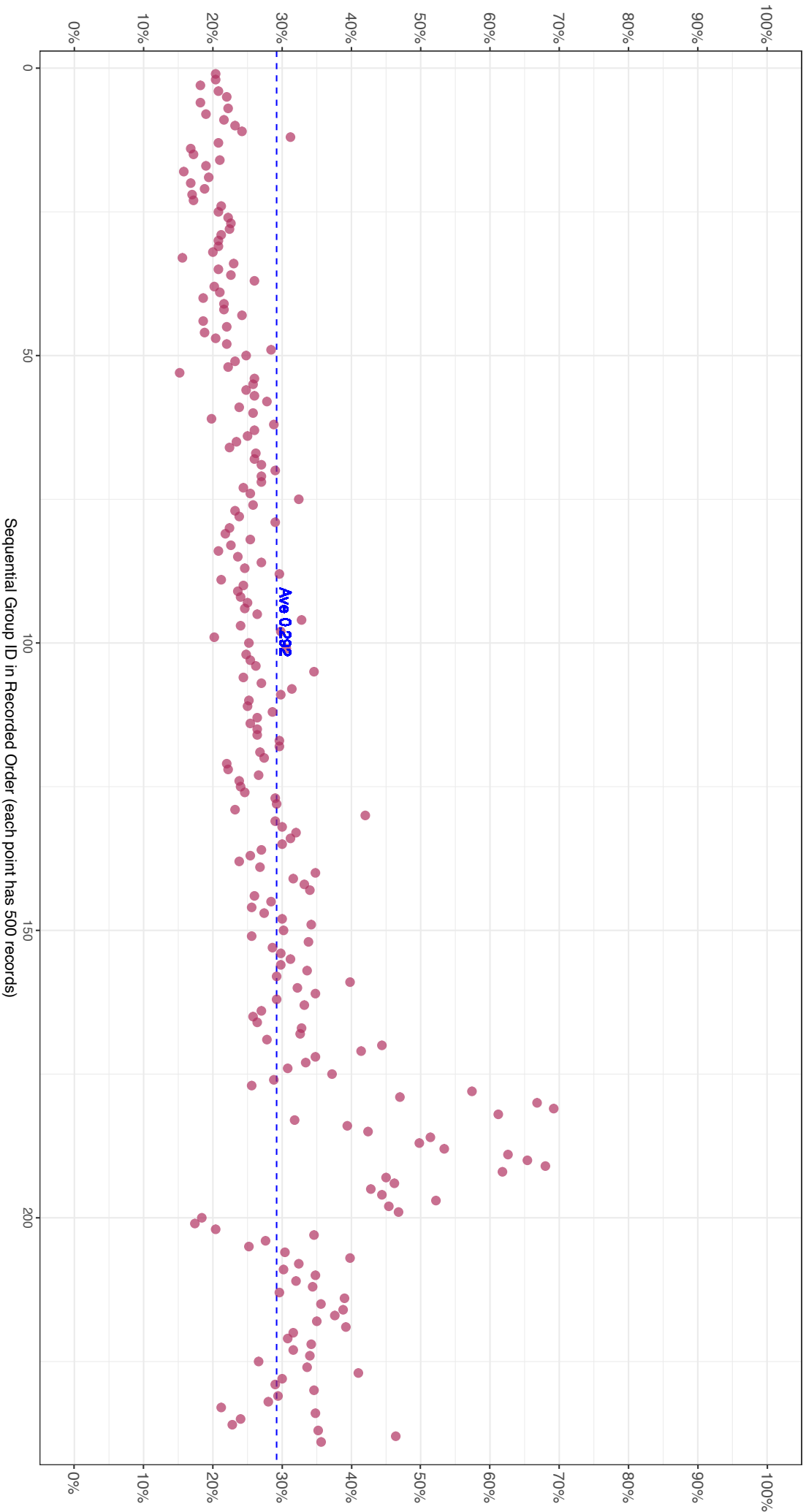


U.S. REPRESENTATIVE IN CONGRESS, DIST. 3: (R) WOOD

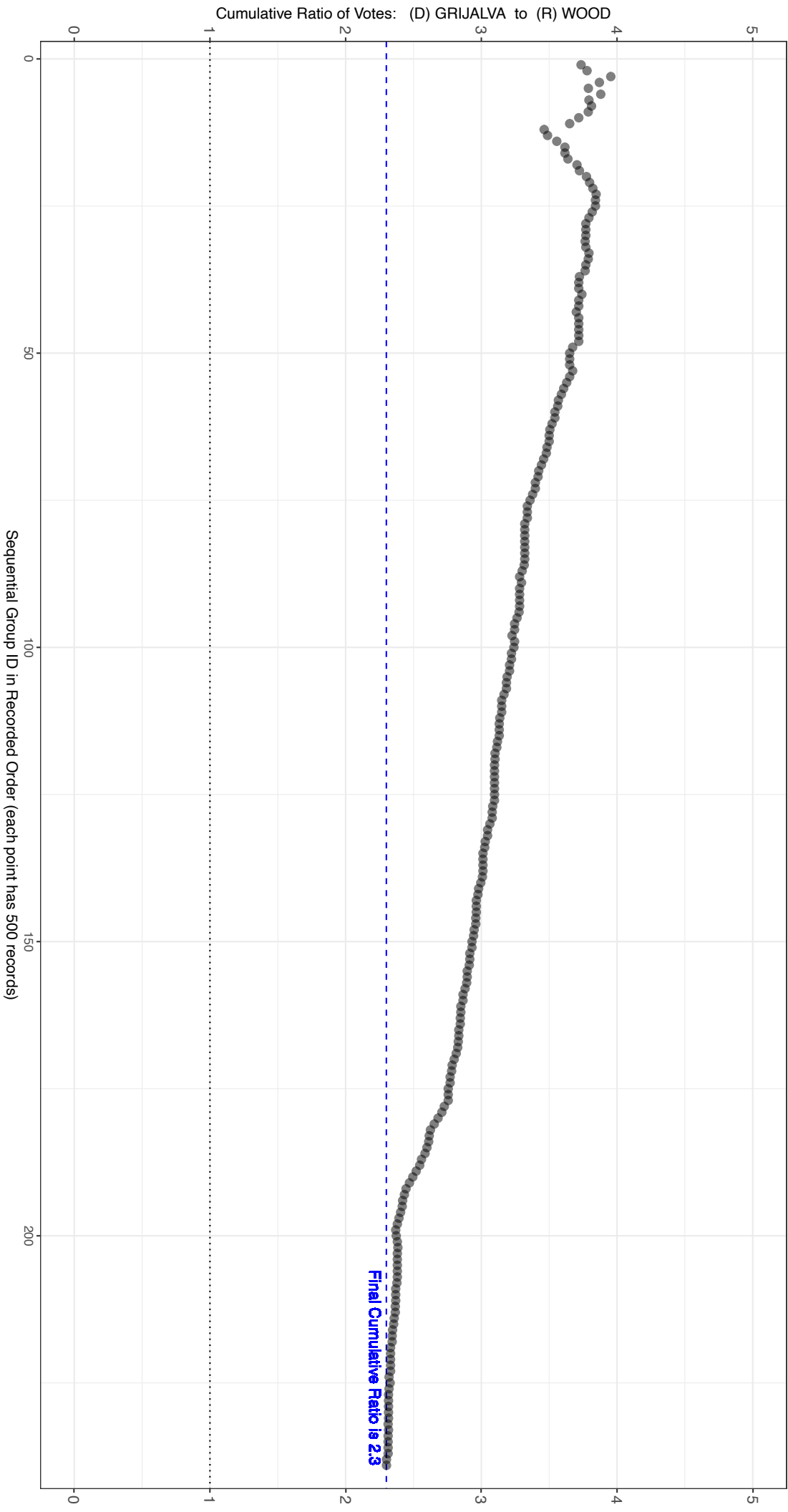
Vote % in Sequential Groups of Size 500

ALL Cast Vote Records (CVRs)

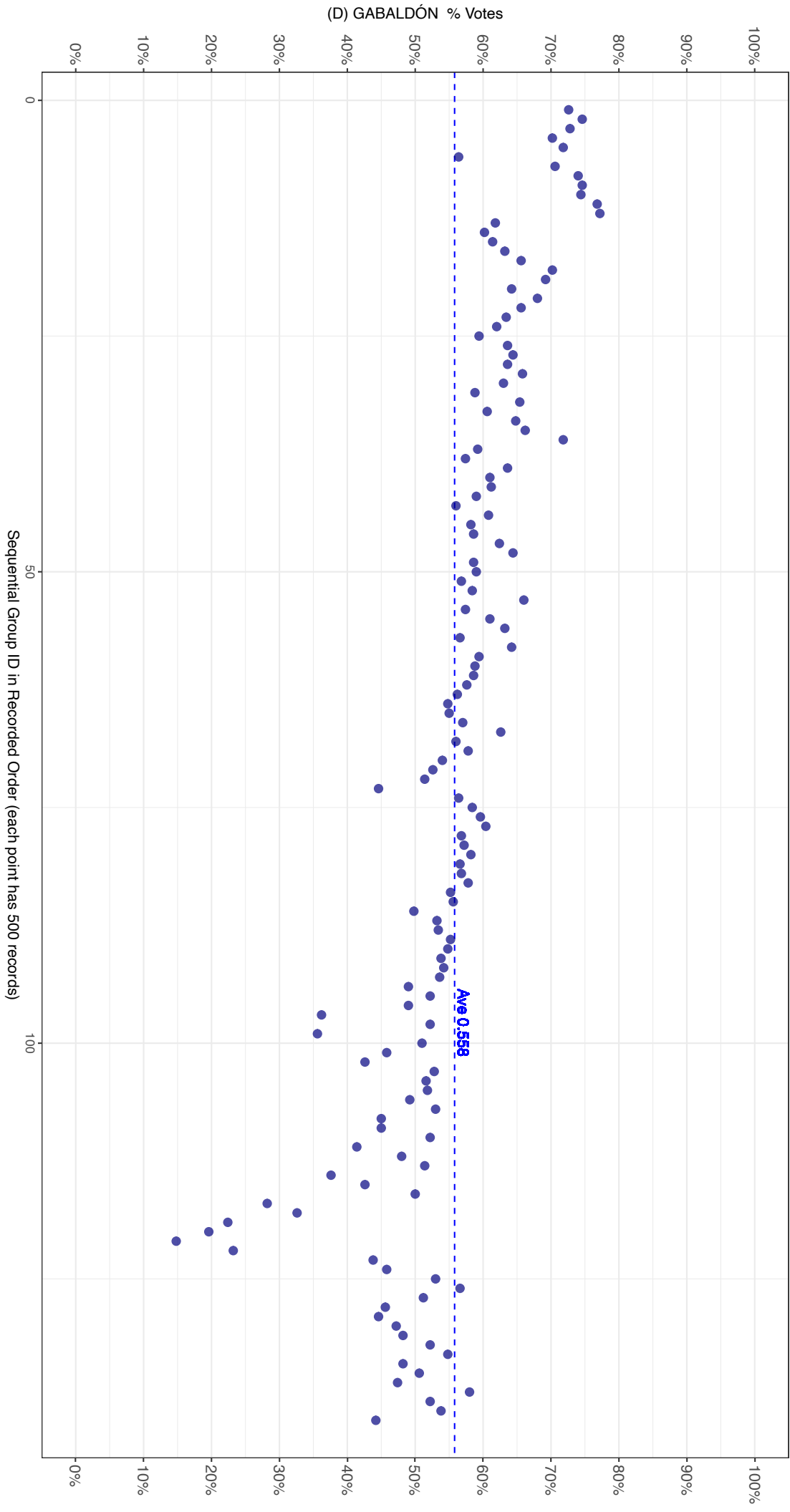
PIMA County Arizona 2020 -- Ave = 0.292



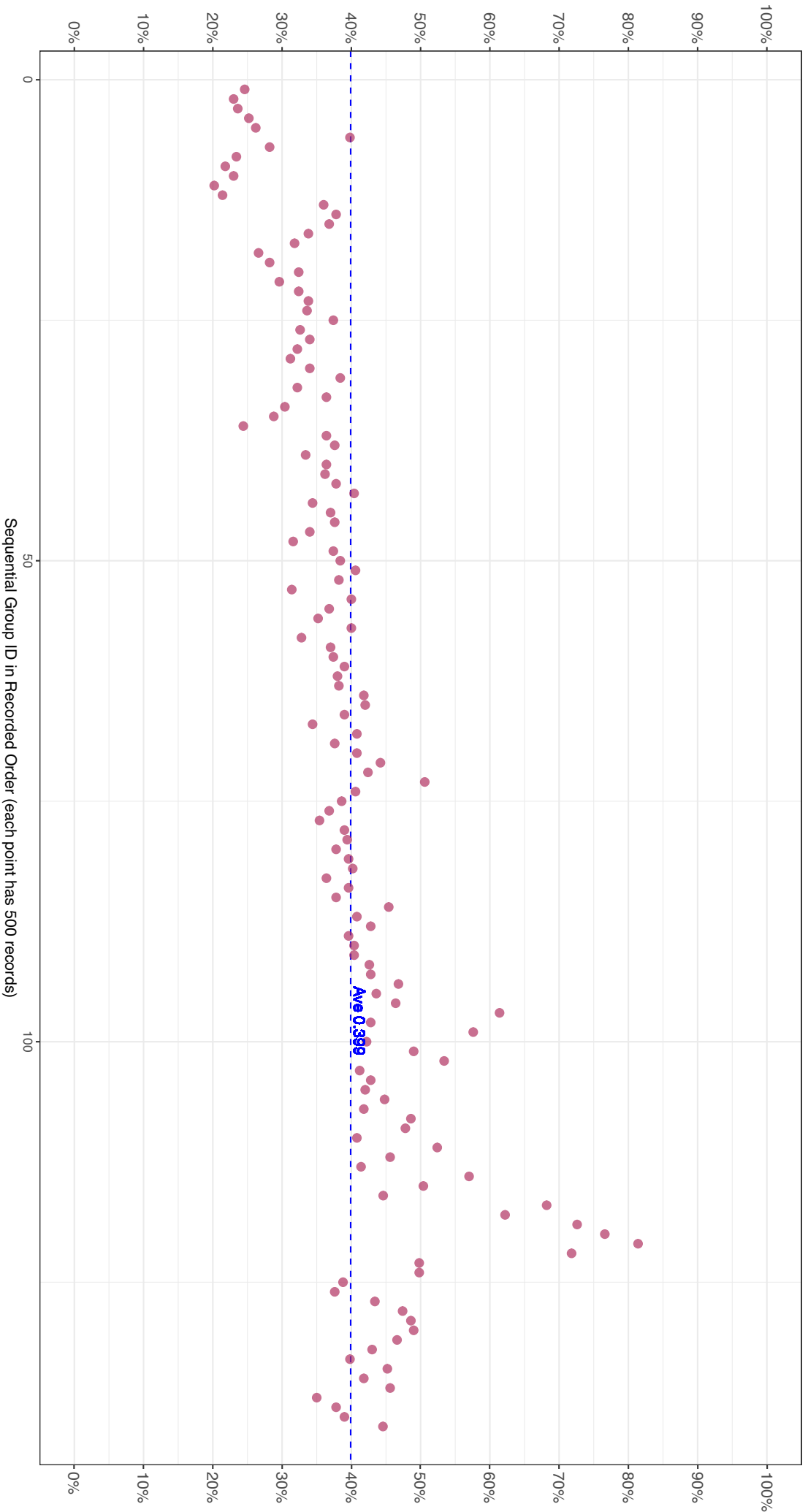
Cumulative Ratio of Votes: (D) GRIJALVA -to- (R) WOOD
Contest: U.S. REPRESENTATIVE IN CONGRESS, DIST. 3
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 2.3



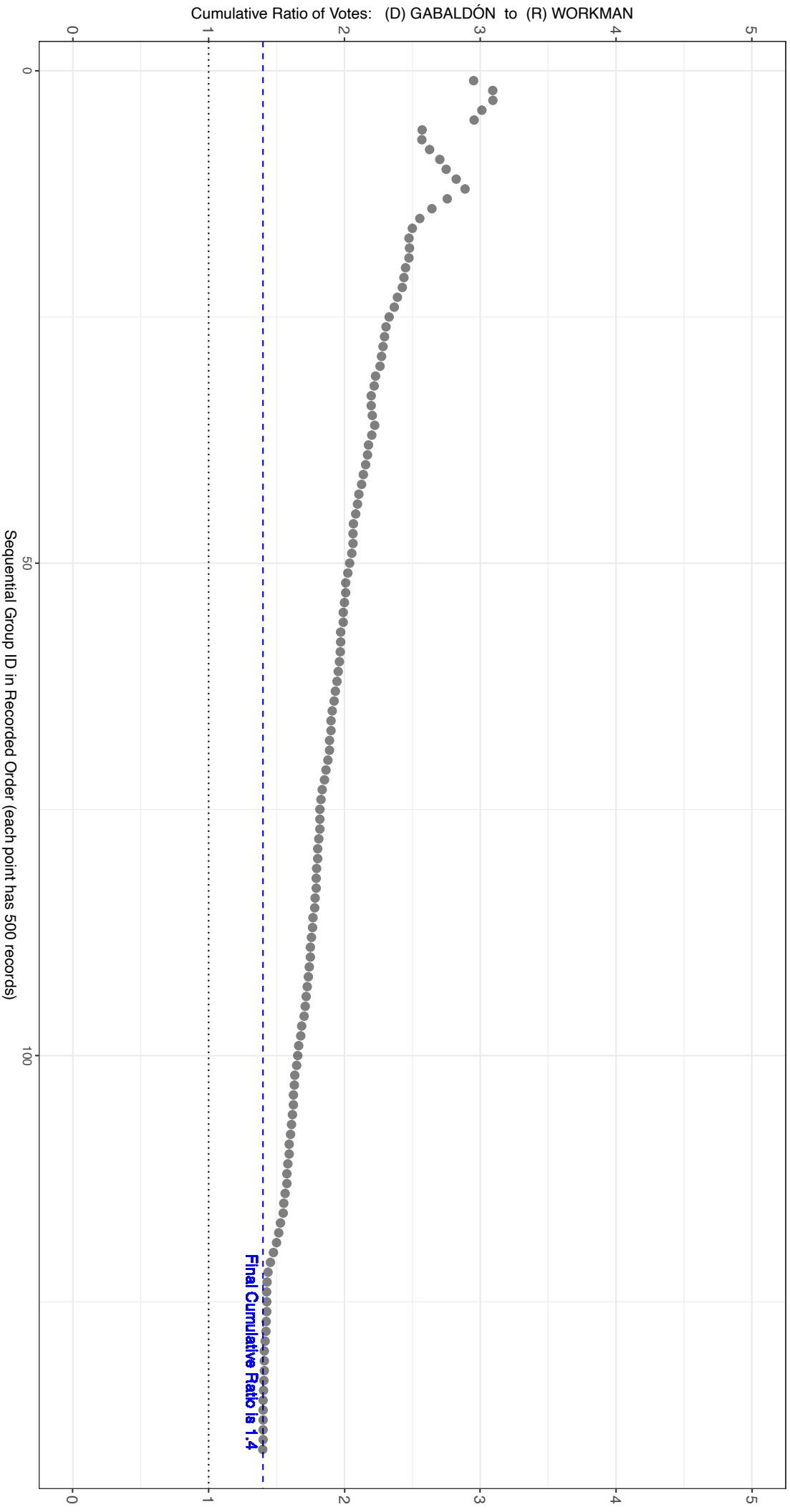
STATE SENATOR, DIST. 2: (D) GABALDÓN
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.558



STATE SENATOR, DIST. 2: (R) WORKMAN
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.399

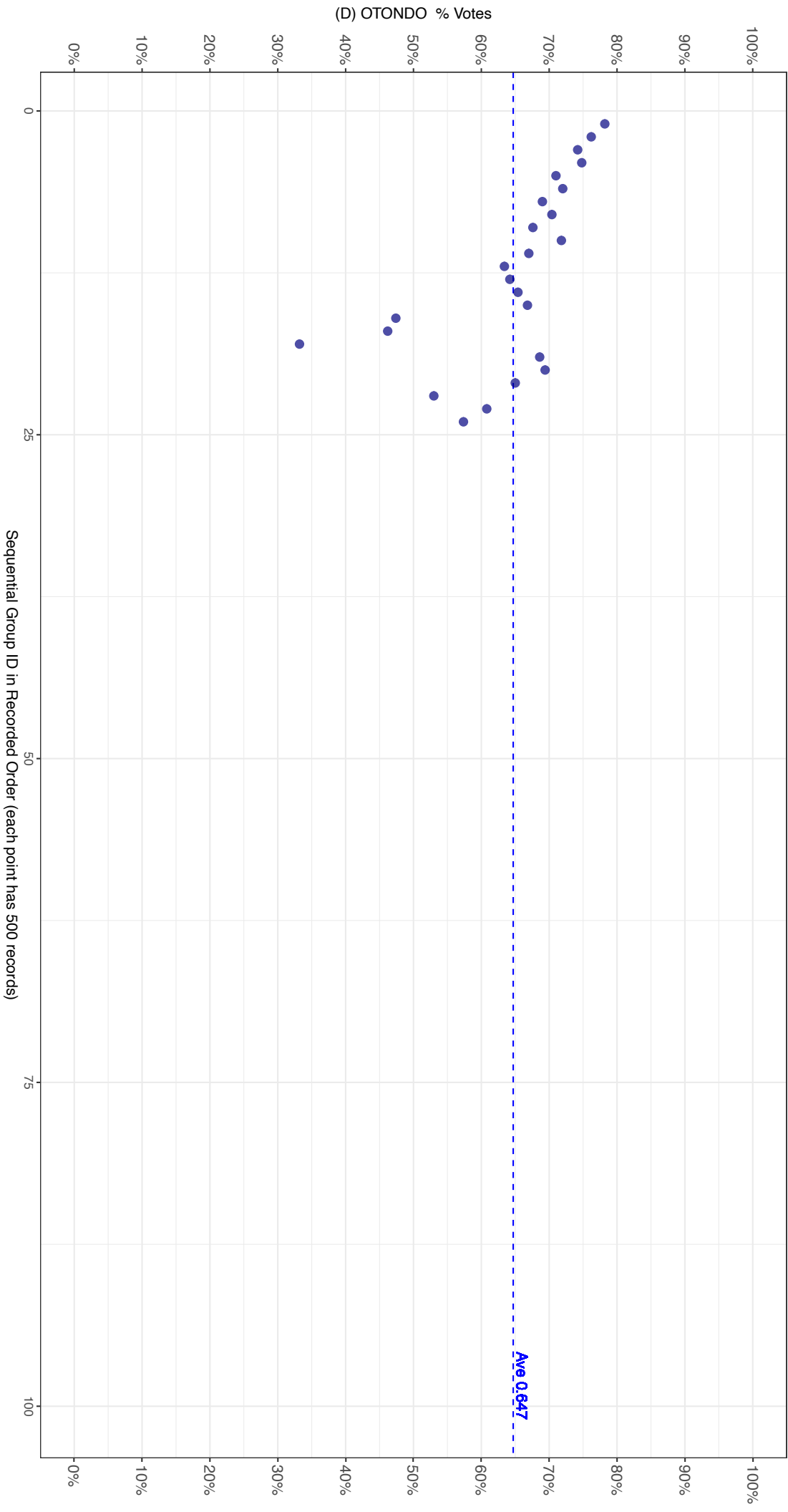


Cumulative Ratio of Votes: (D) GABALDÓN -to- (R) WORKMAN
Contest: STATE SENATOR, DIST. 2
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 1.4

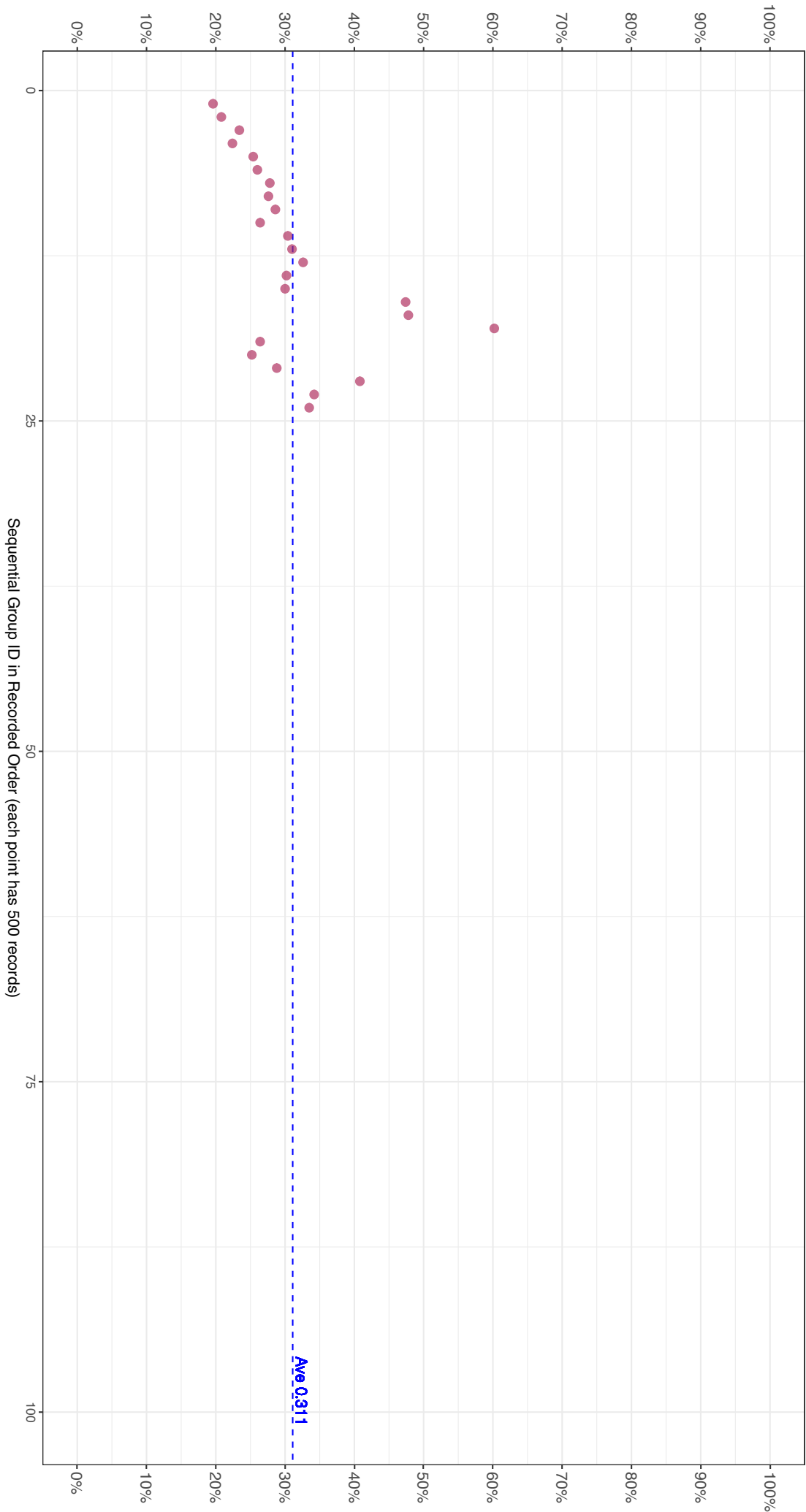


Sequential Group ID in Recorded Order (each point has 500 records)

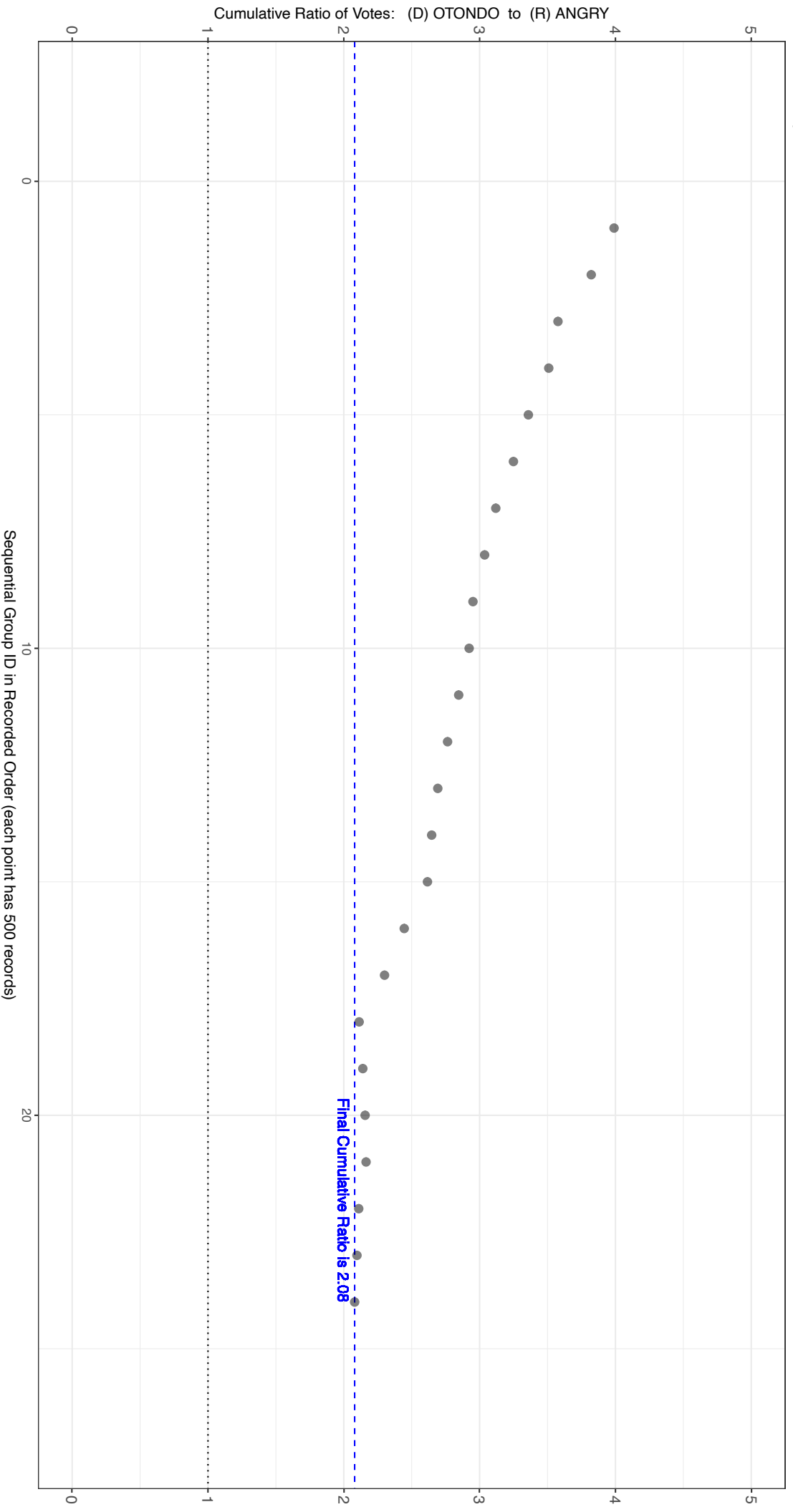
STATE SENATOR , DIST. 4: (D) OTONDO
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.647



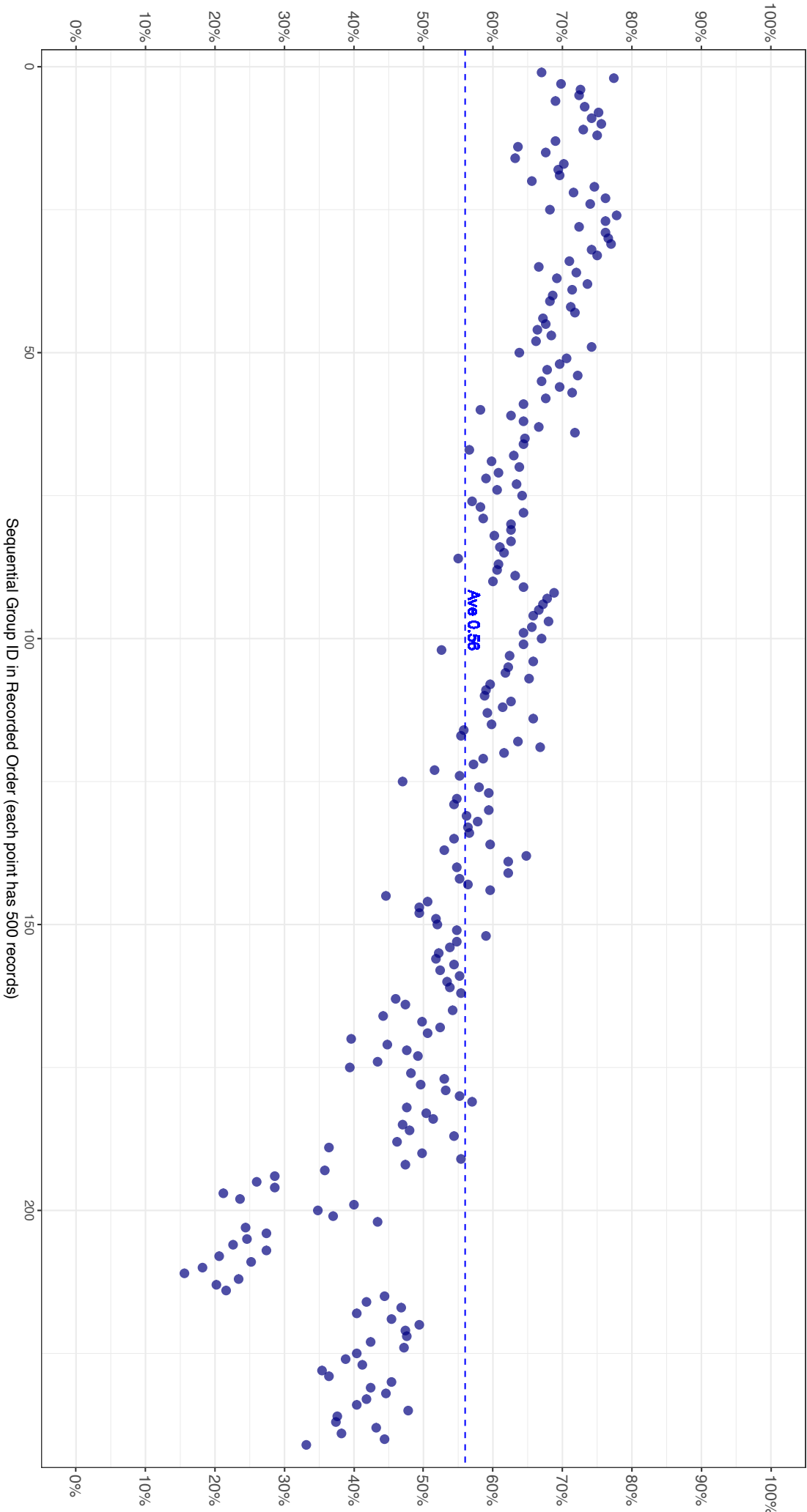
STATE SENATOR , DIST. 4: (R) ANGRY
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.311



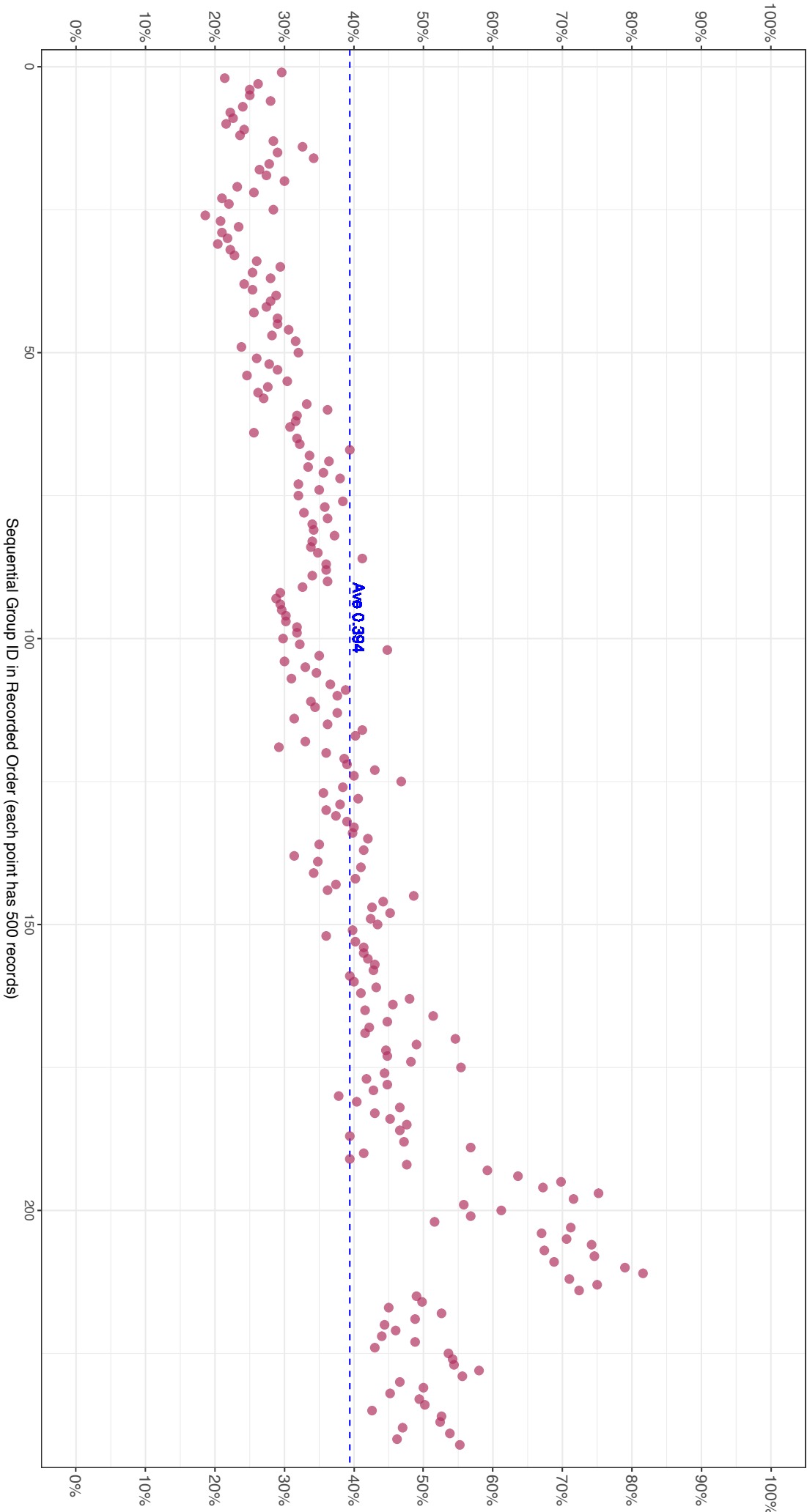
Cumulative Ratio of Votes: (D) OTONDO -to- (R) ANGRY
Contest: STATE SENATOR , DIST. 4
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 2.08



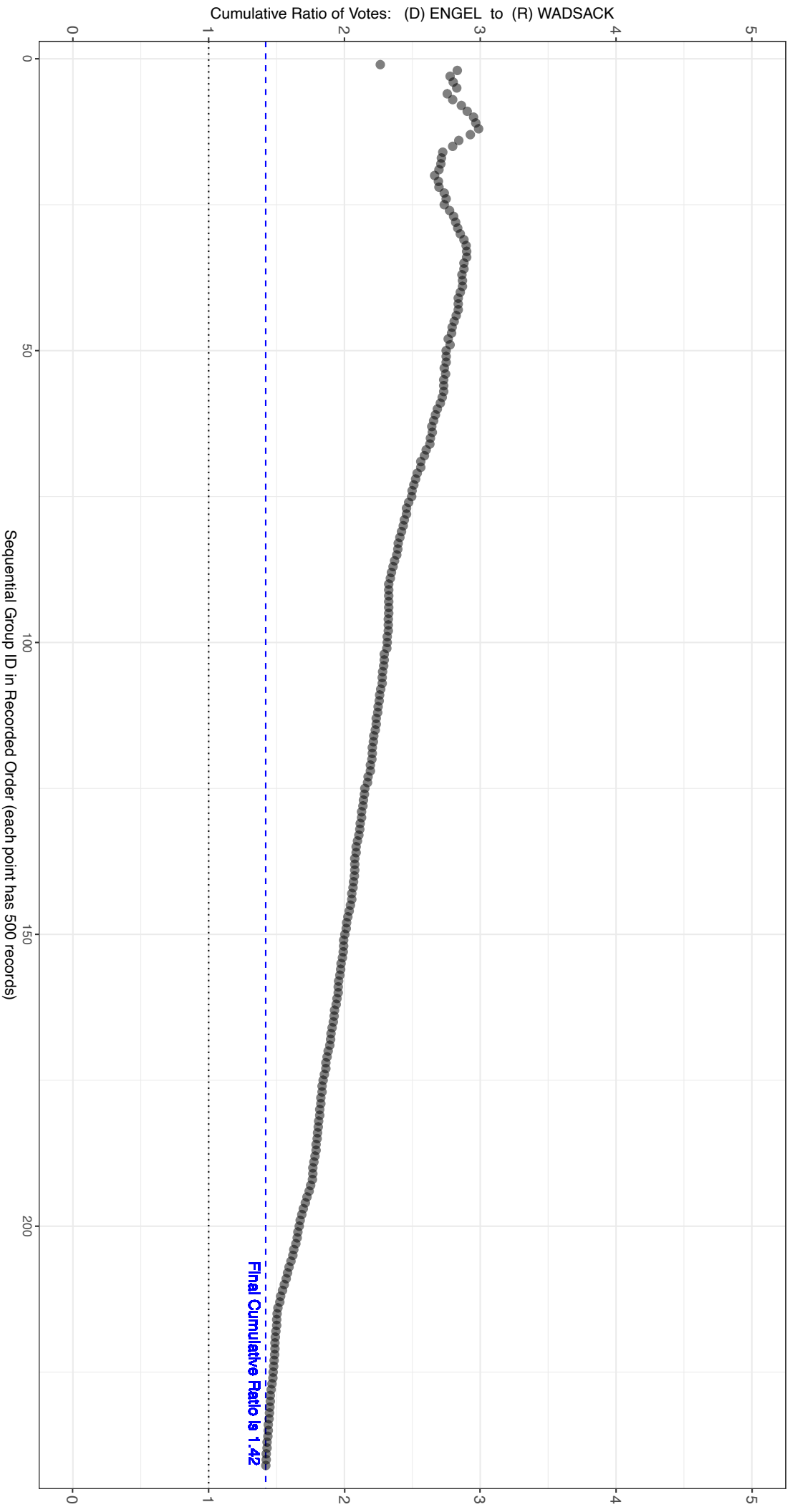
STATE SENATOR, DIST. 10: (D) ENGEL
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.56



STATE SENATOR, DIST. 10: (R) WADSACK
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.394

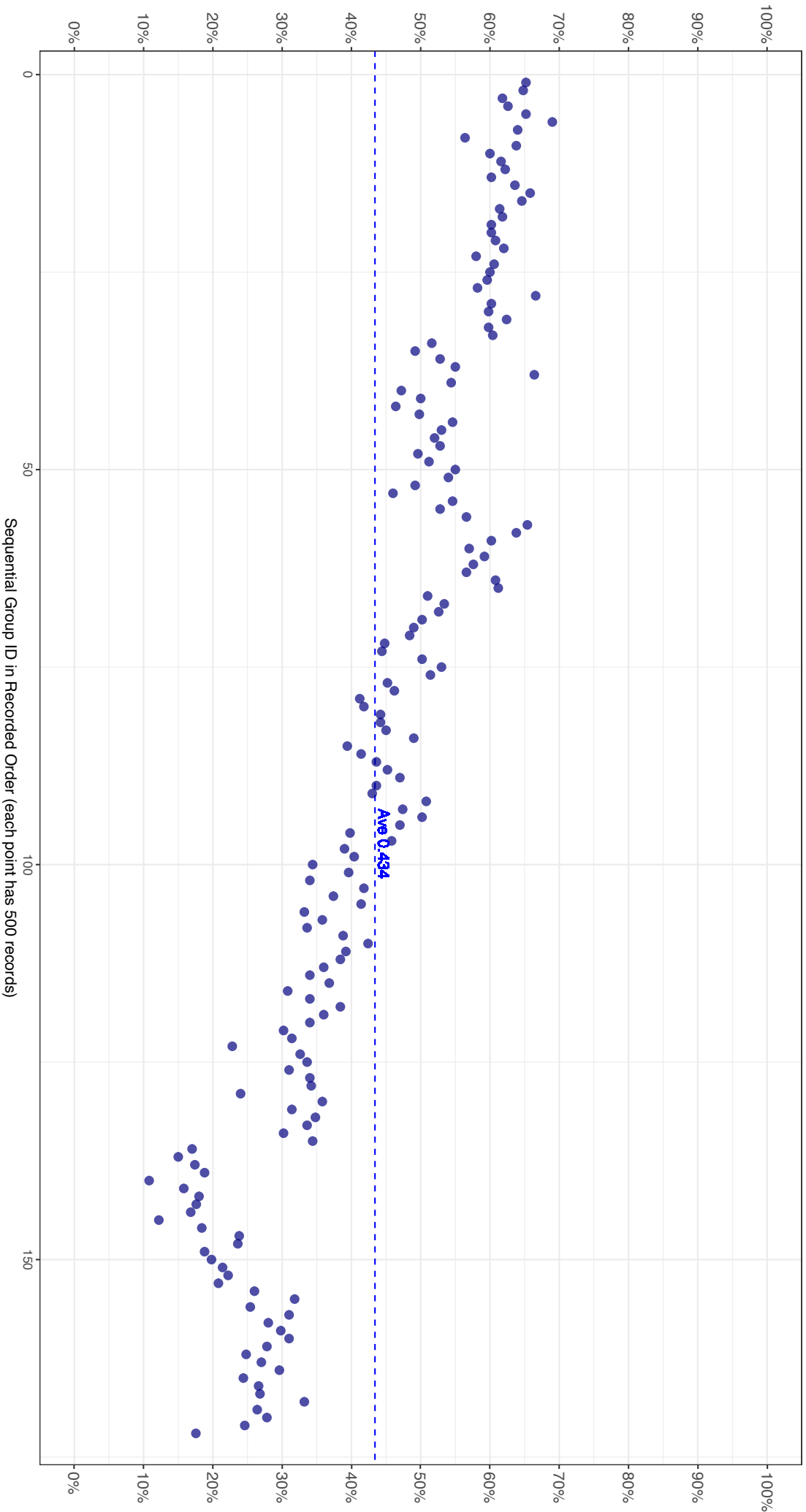


Cumulative Ratio of Votes: (D) ENGEL -to- (R) WADSACK
Contest: STATE SENATOR, DIST. 10
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 1.42

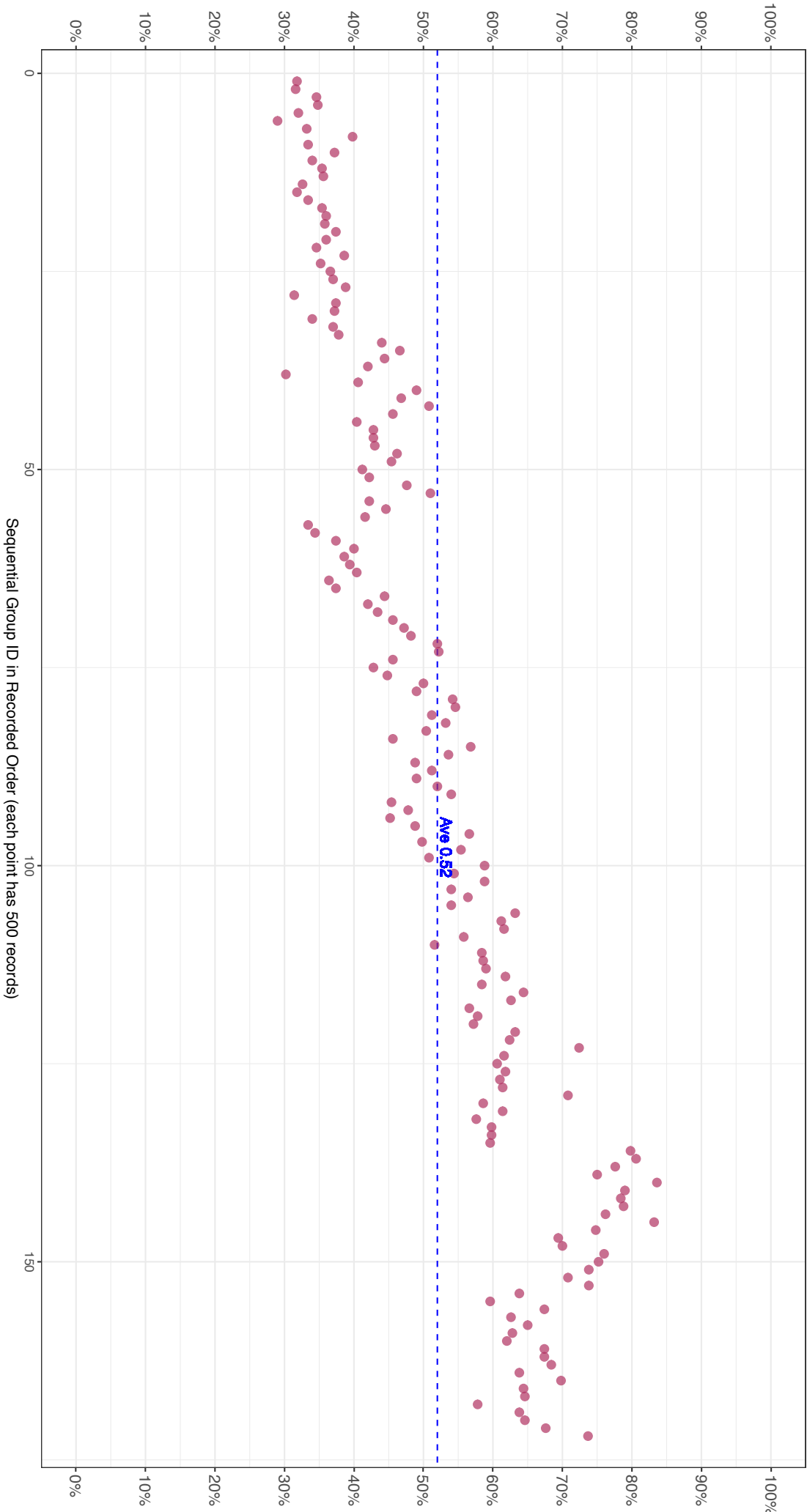


Sequential Group ID in Recorded Order (each point has 500 records)

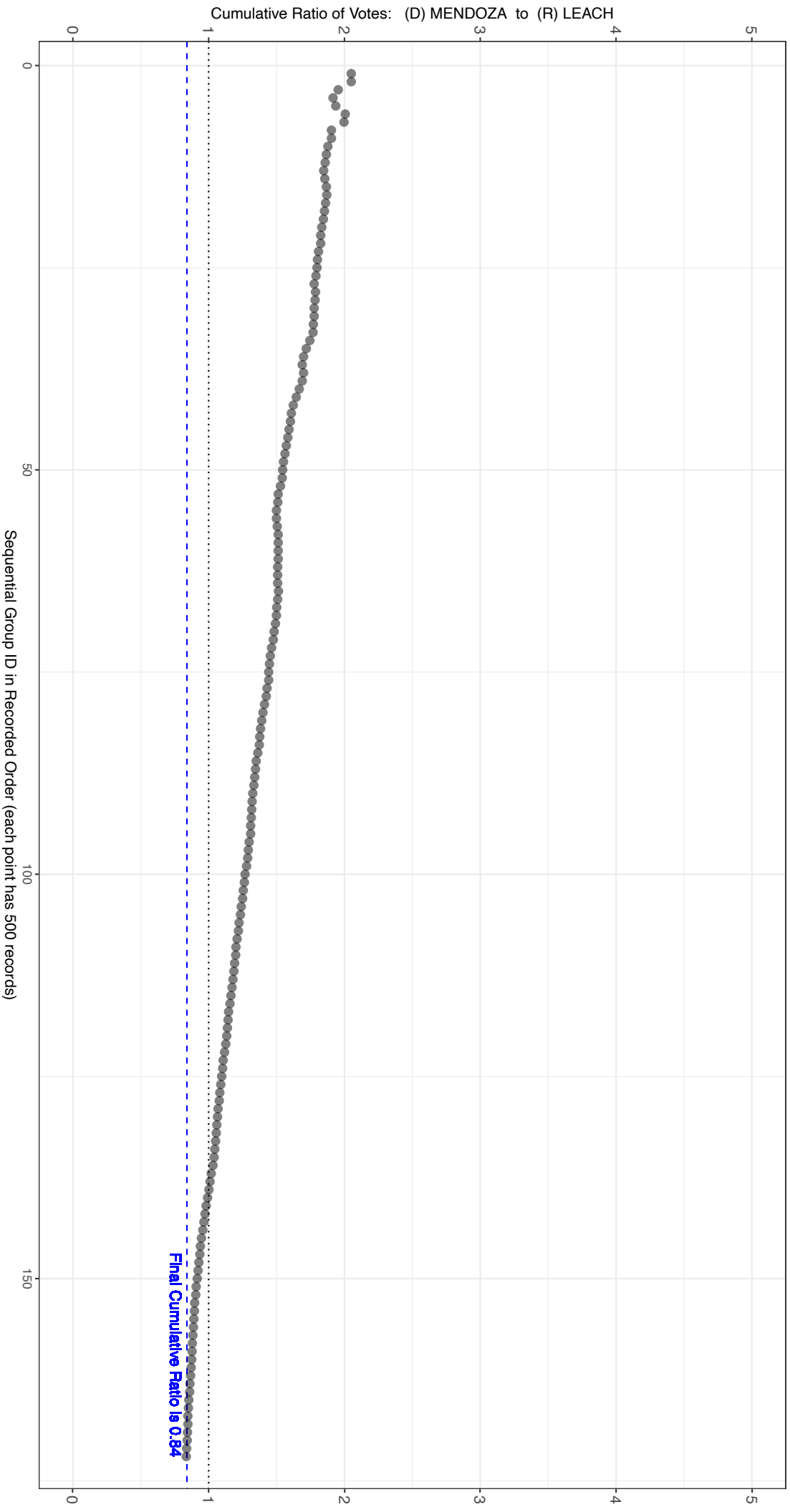
STATE SENATOR, DIST. 11: (D) MENDOZA
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.434



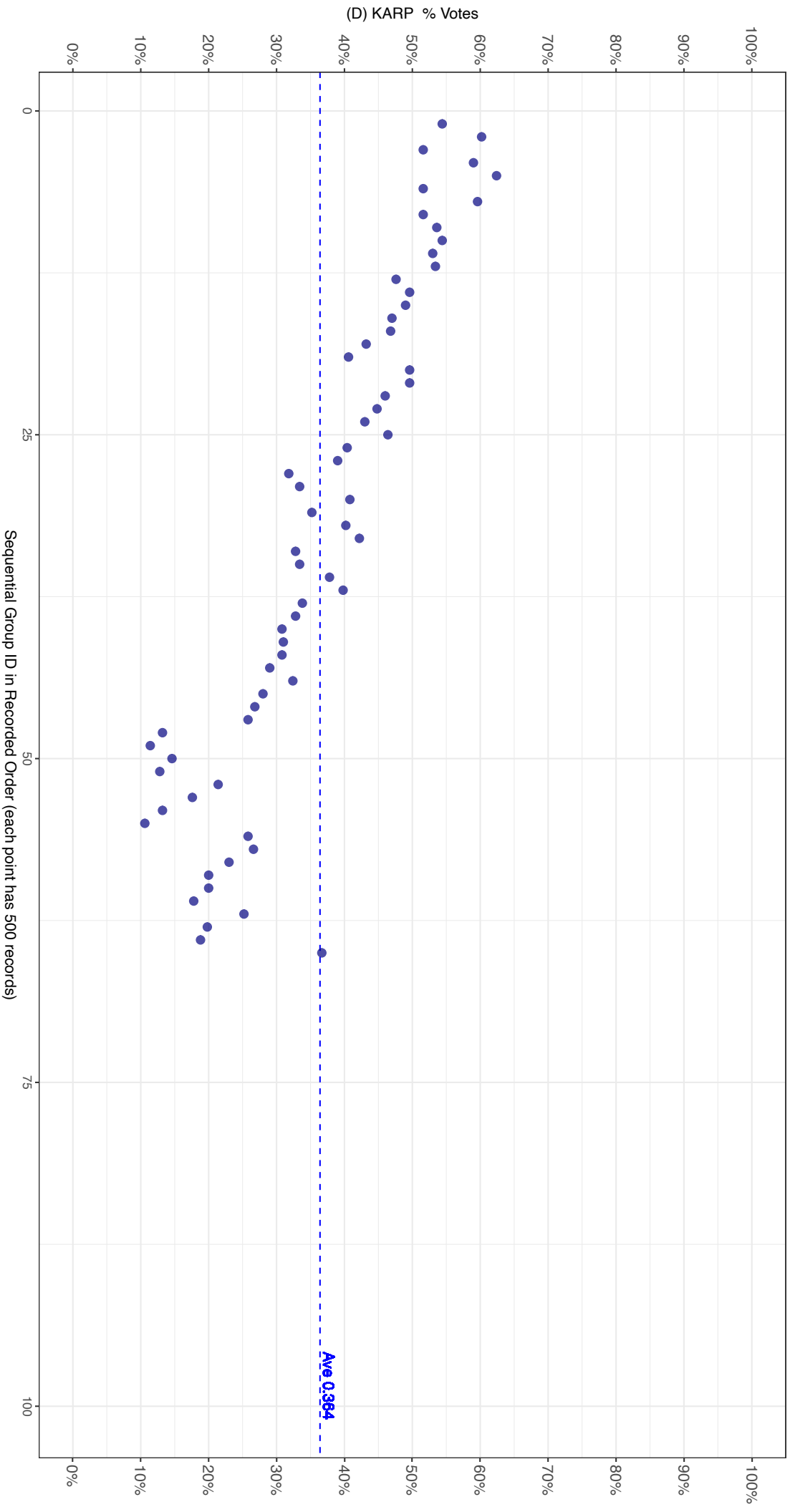
STATE SENATOR, DIST. 11: (R) LEACH
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.52



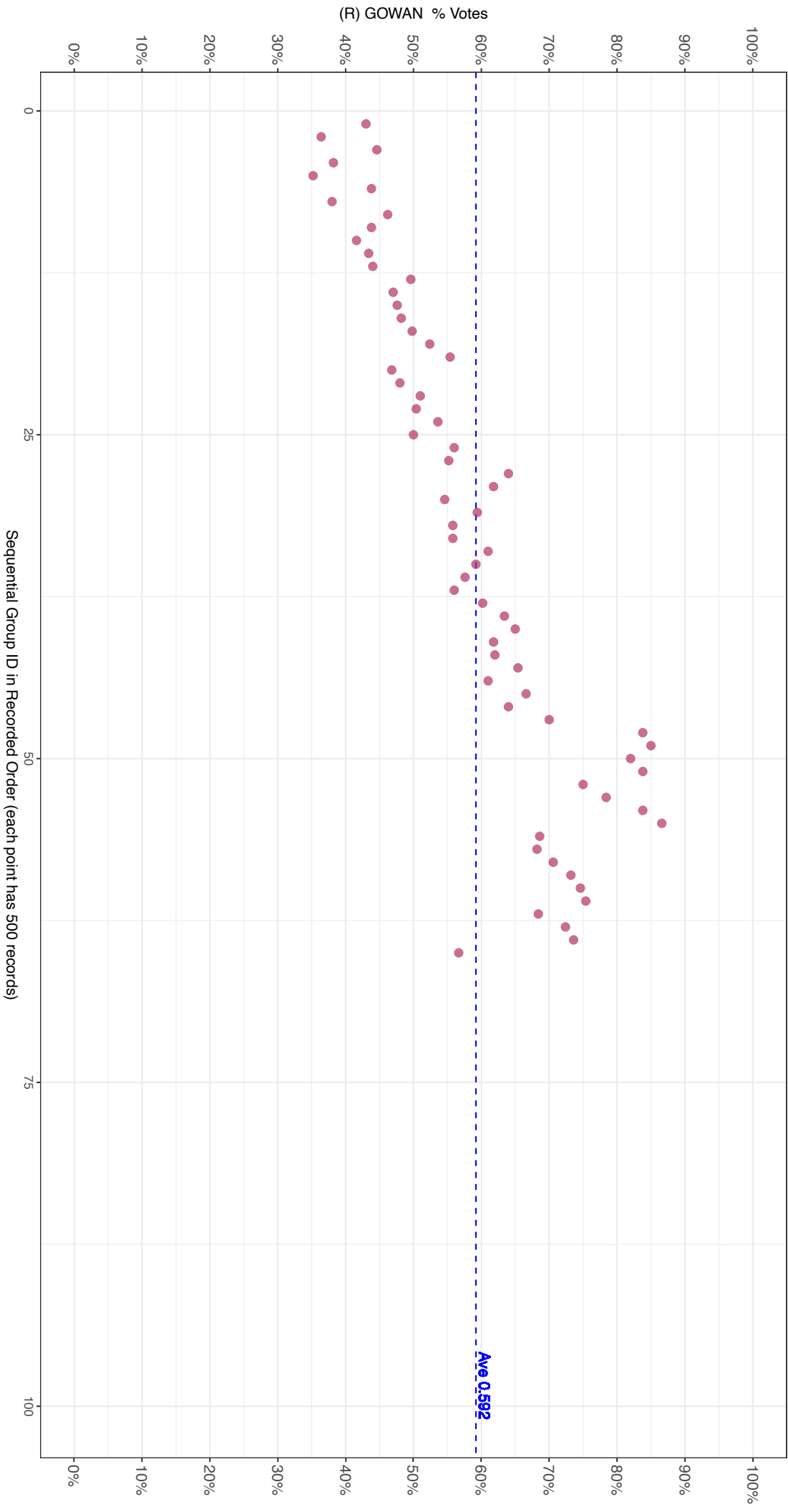
Cumulative Ratio of Votes: (D) MENDOZA -to- (R) LEACH
Contest: STATE SENATOR, DIST. 11
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 0.84



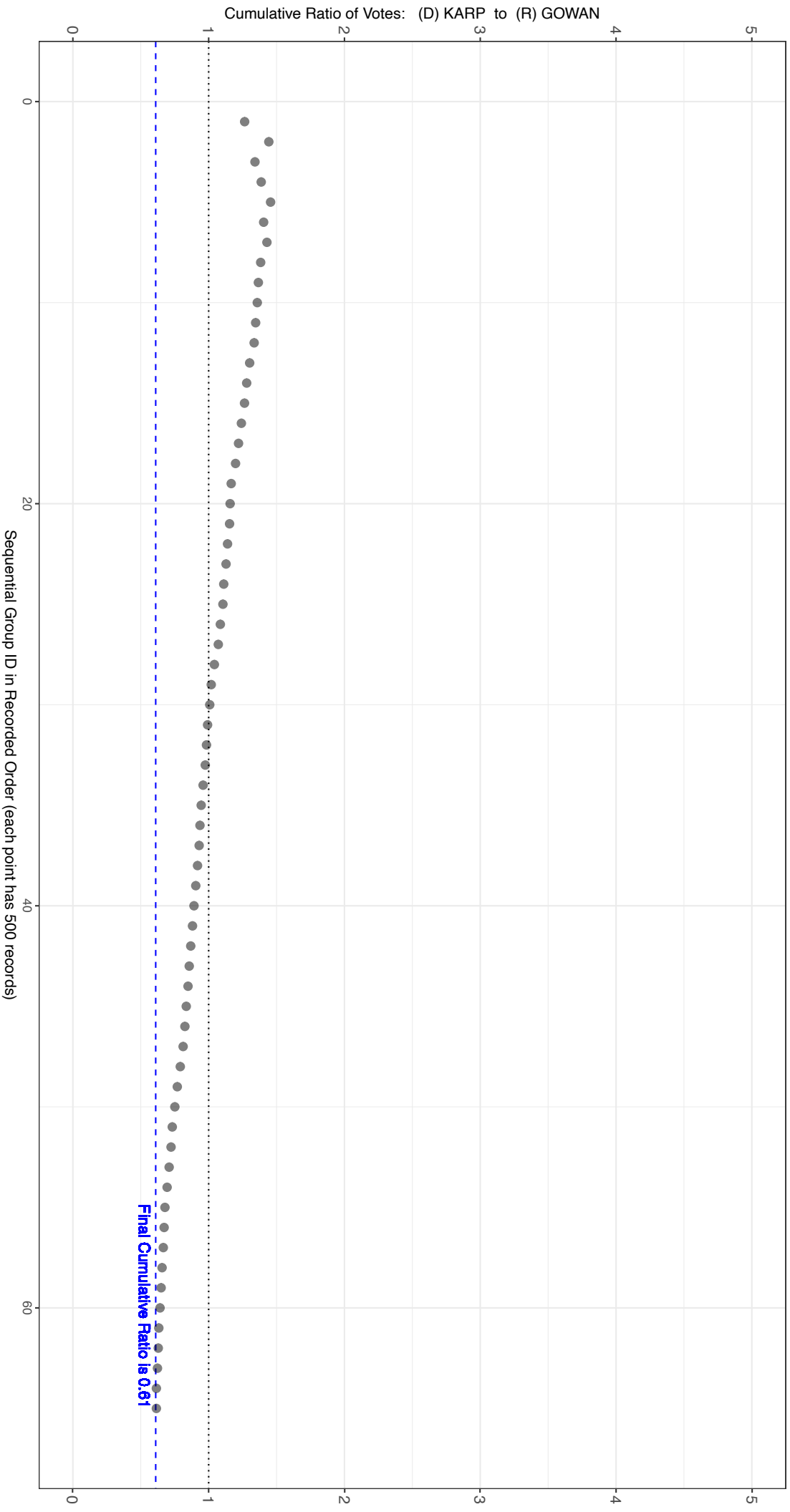
STATE SENATOR, DIST. 14: (D) KARP
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.364



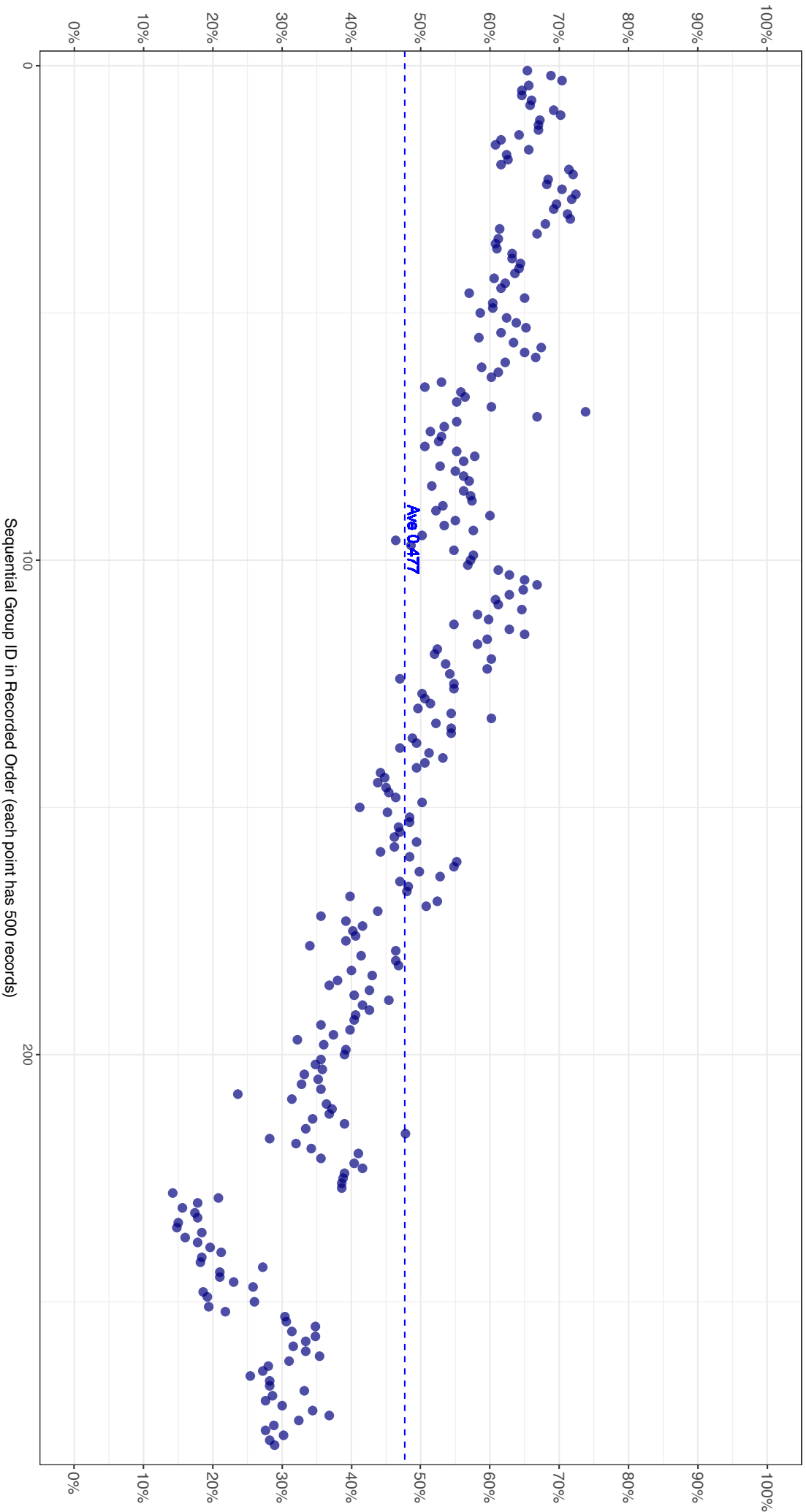
STATE SENATOR, DIST. 14: (R) GOWAN
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.592



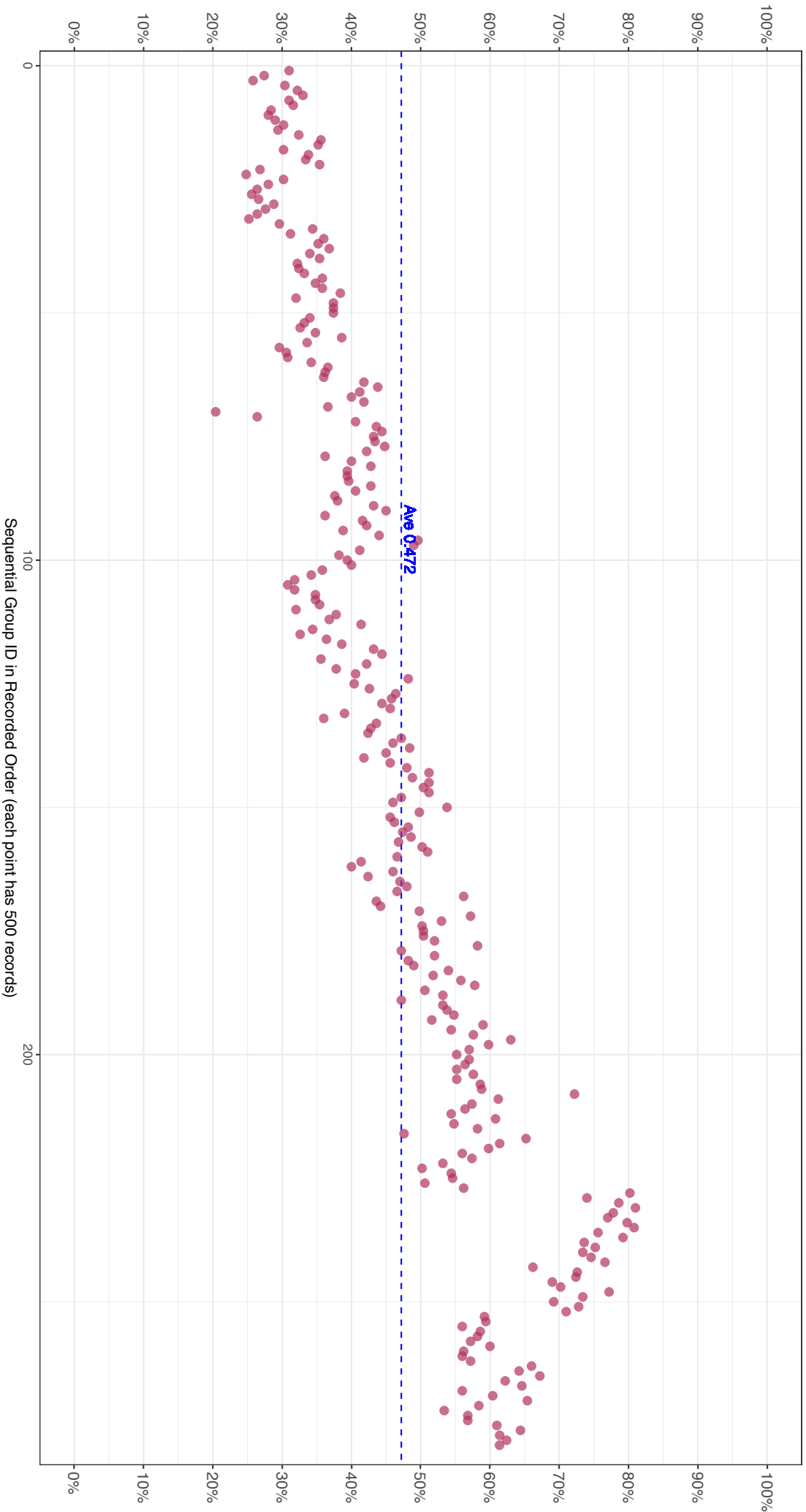
Cumulative Ratio of Votes: (D) KARP -to- (R) GOWAN
Contest: STATE SENATOR, DIST. 14
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 0.61



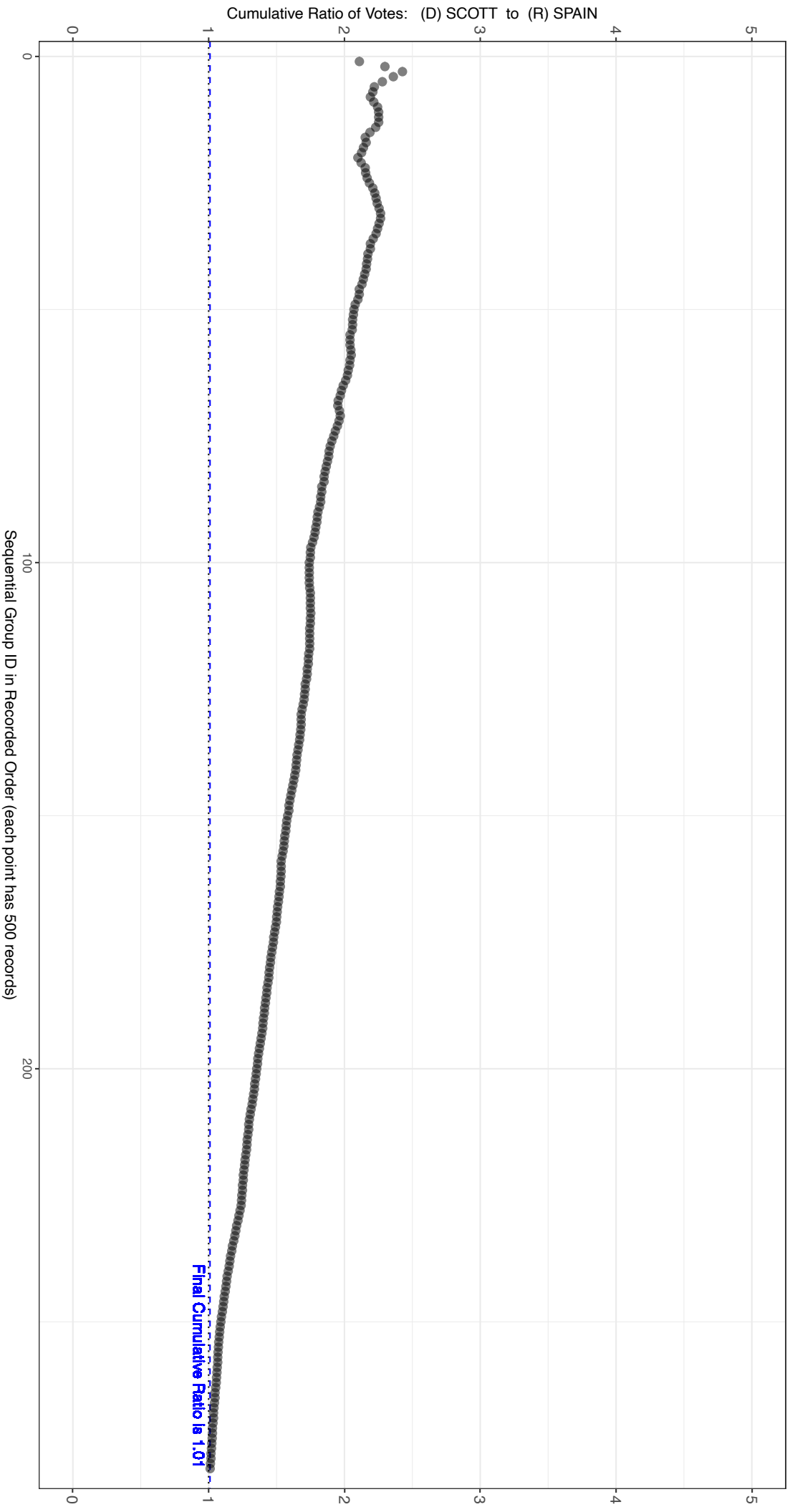
BOARD OF SUPERVISORS, DIST. 1: (D) SCOTT
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.477



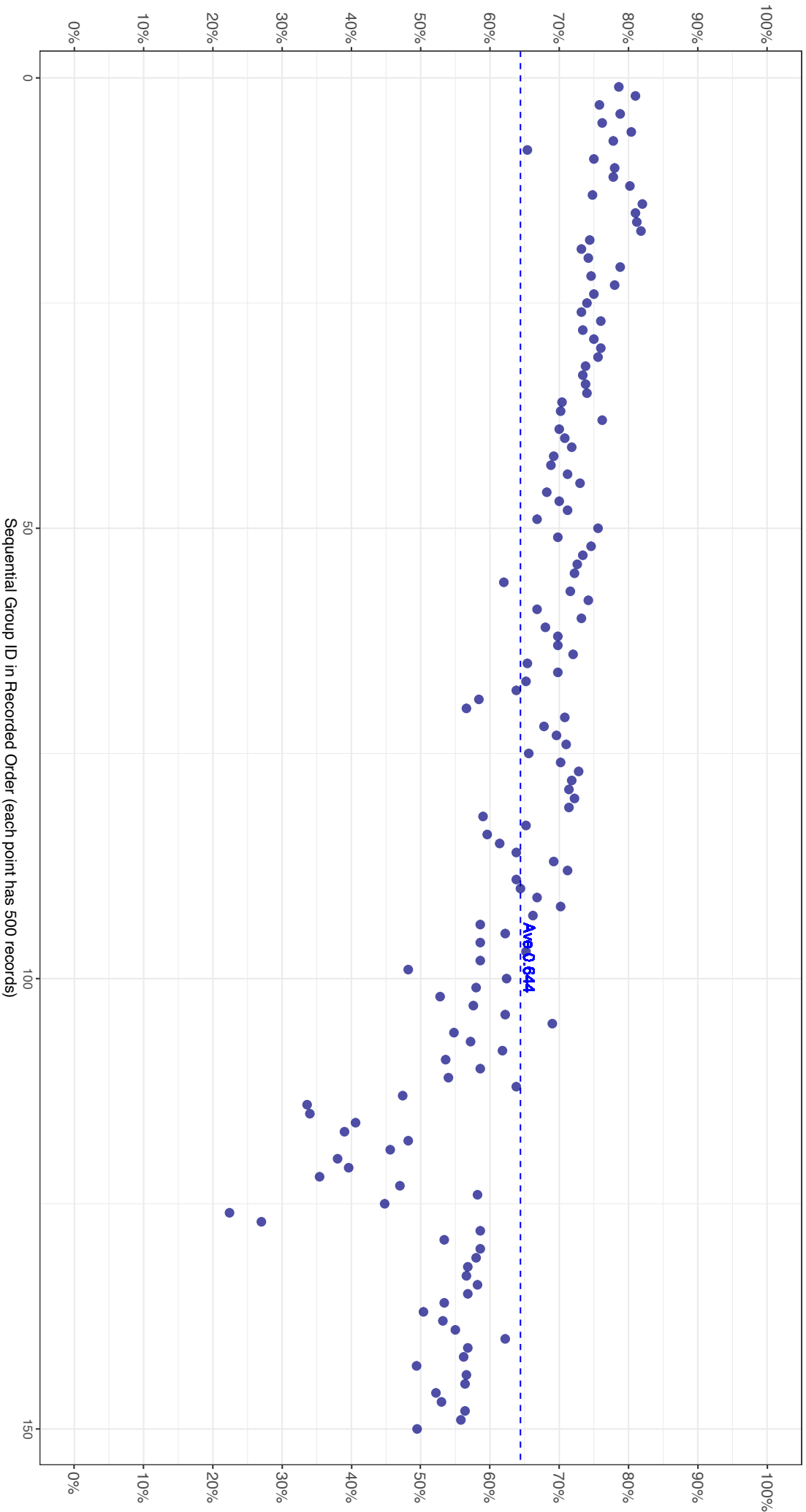
BOARD OF SUPERVISORS, DIST. 1: (R) SPAIN
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.472



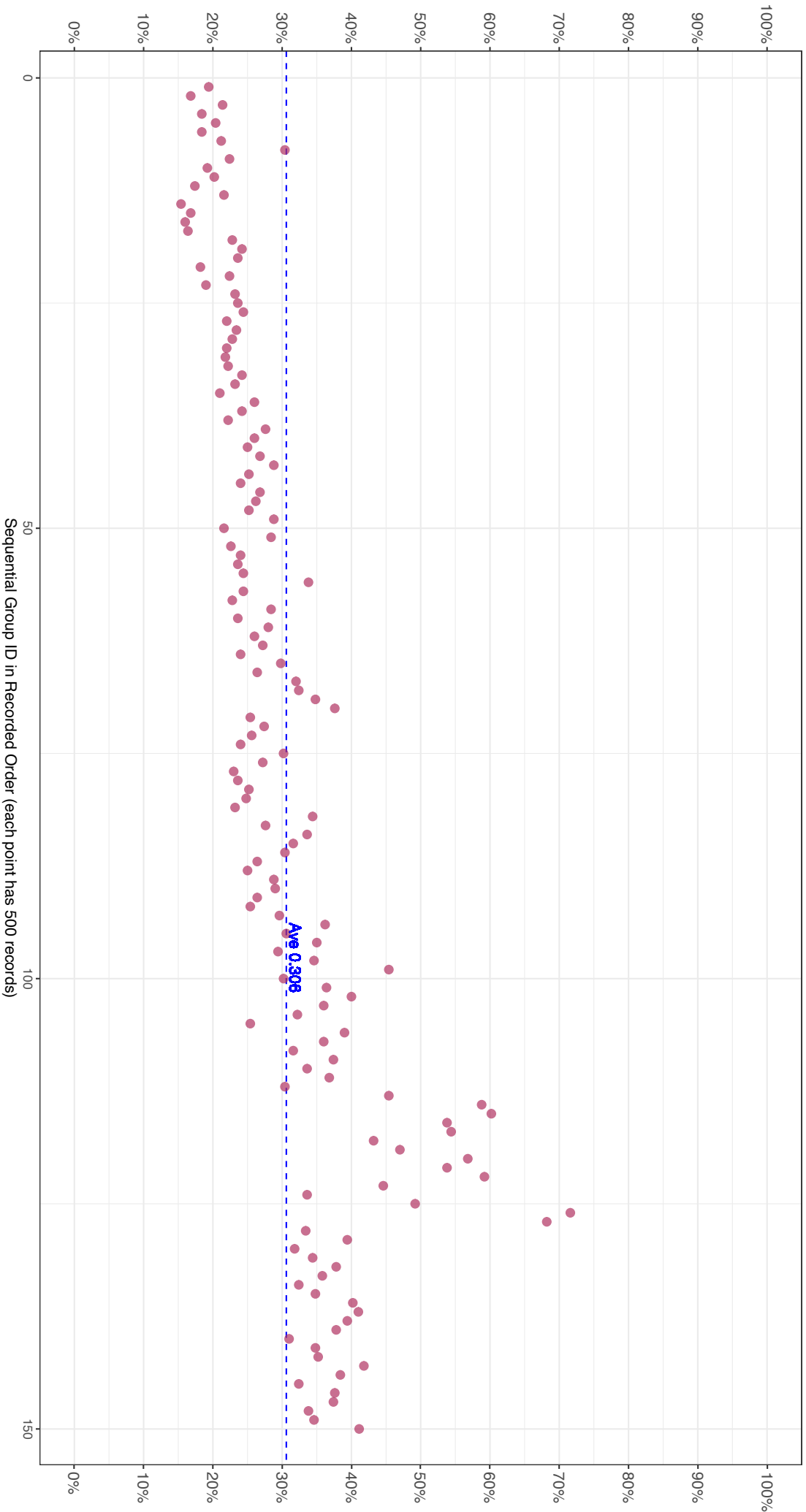
Cumulative Ratio of Votes: (D) SCOTT -to- (R) SPAIN
Contest: BOARD OF SUPERVISORS, DIST. 1
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 1.01



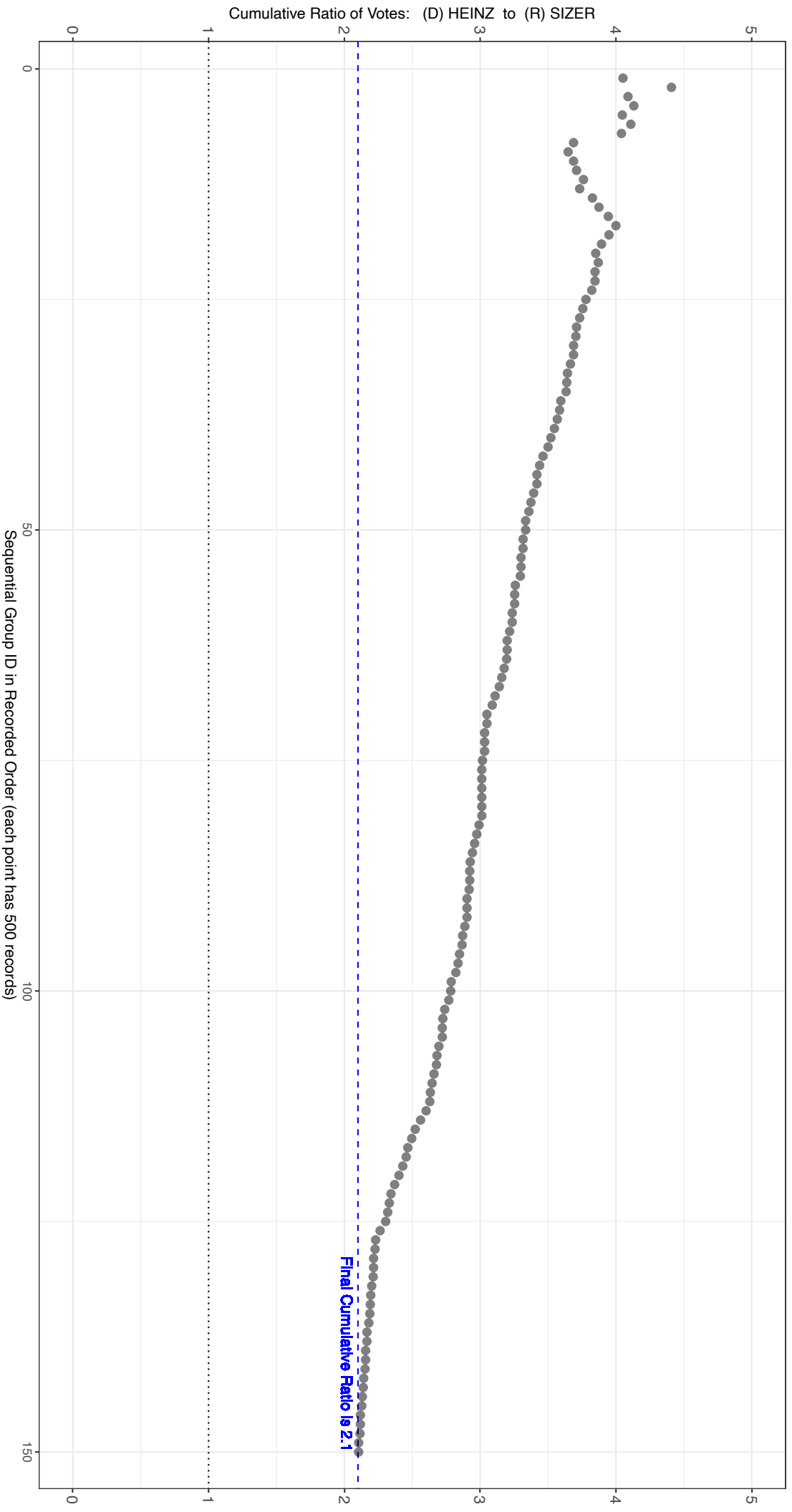
BOARD OF SUPERVISORS, DIST. 2: (D) HEINZ
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.644



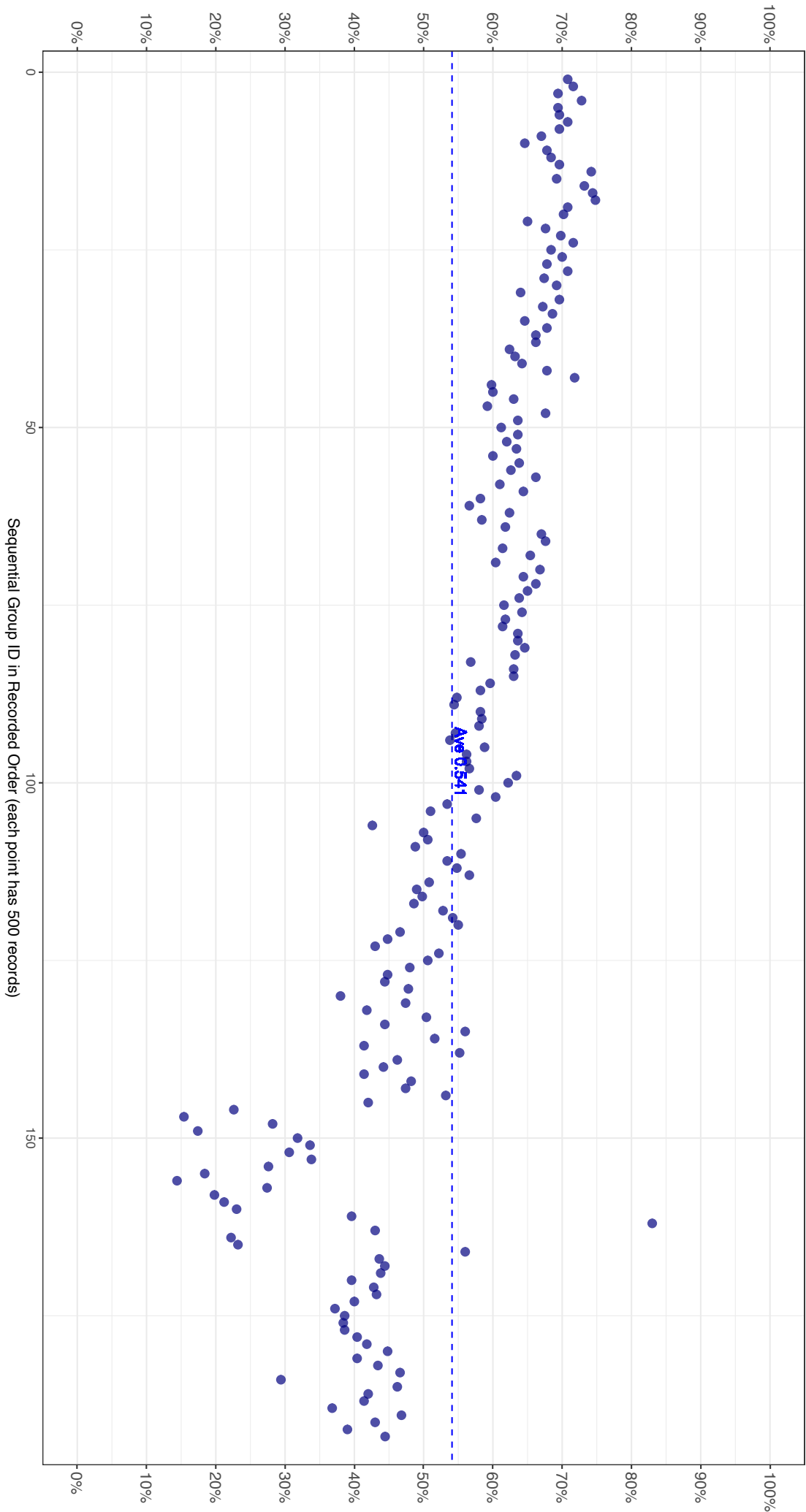
BOARD OF SUPERVISORS, DIST. 2: (R) SIZER
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.306



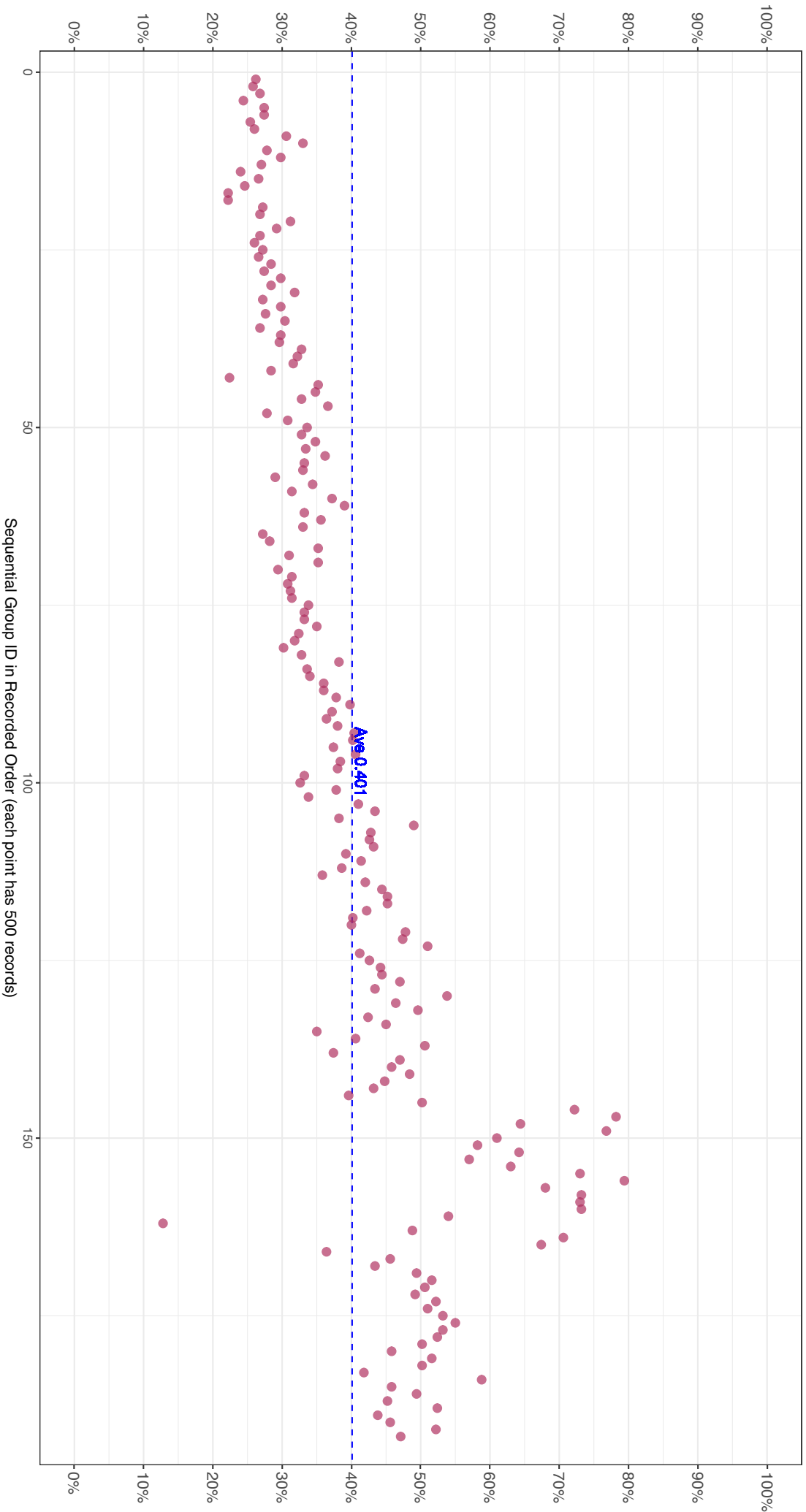
Cumulative Ratio of Votes: (D) HEINZ -to- (R) SIZER
Contest: BOARD OF SUPERVISORS, DIST. 2
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 2:1



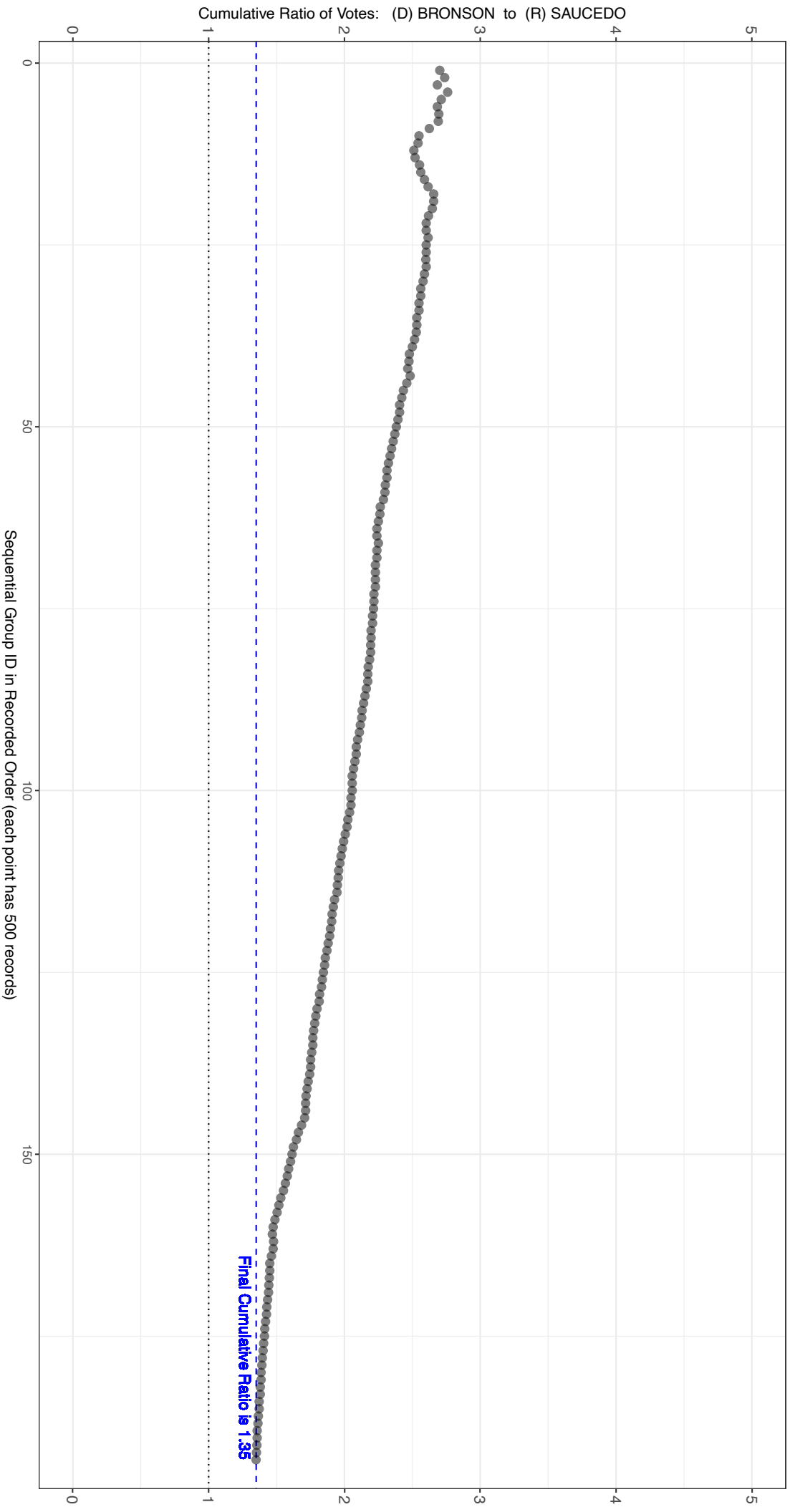
BOARD OF SUPERVISORS, DIST. 3: (D) BRONSON
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.541



BOARD OF SUPERVISORS, DIST. 3: (R) SAUCEDO
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.401

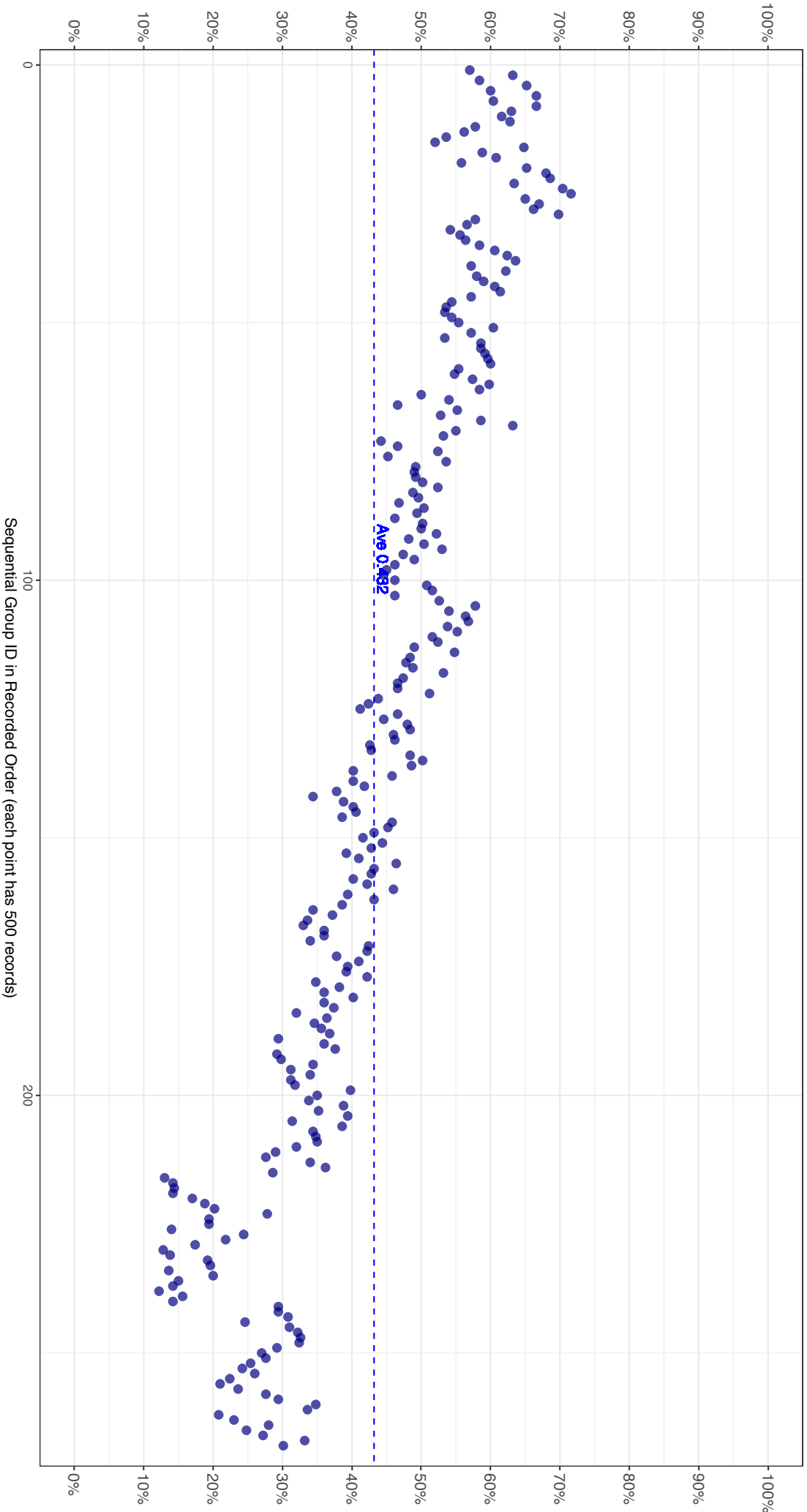


Cumulative Ratio of Votes: (D) BRONSON -to- (R) SAUCEDO
Contest: BOARD OF SUPERVISORS, DIST. 3
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 1.35

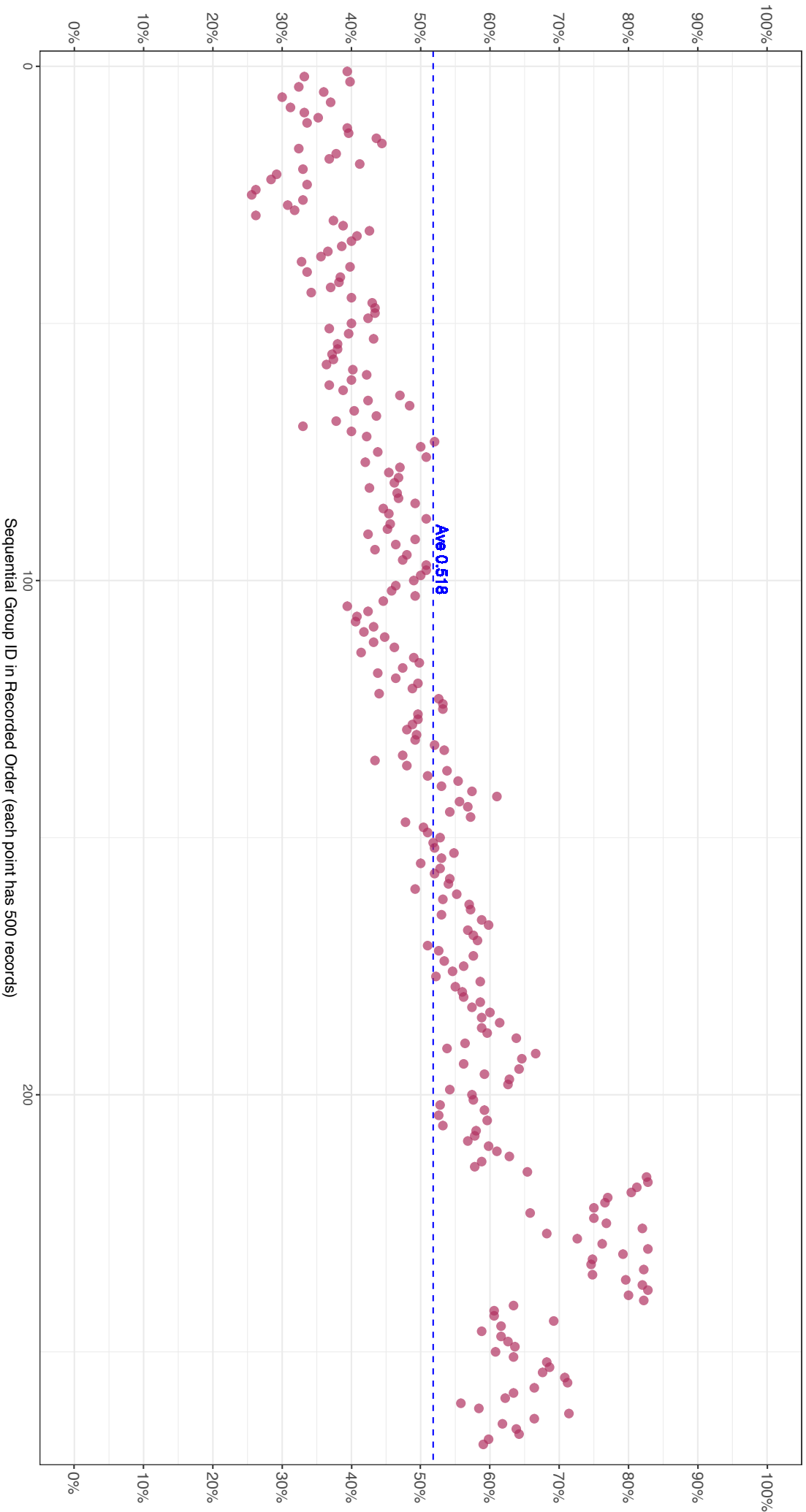


Sequential Group ID in Recorded Order (each point has 500 records)

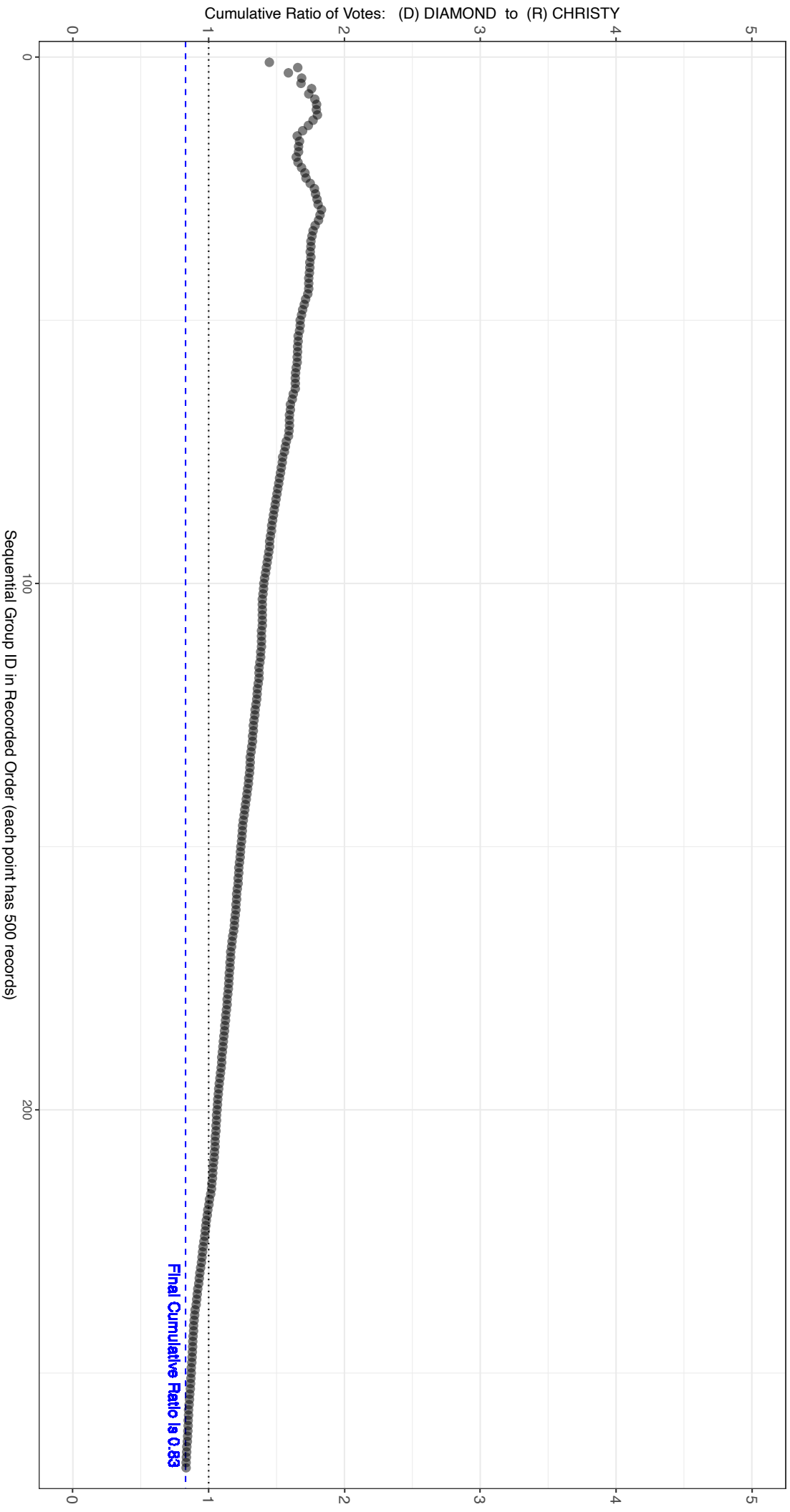
BOARD OF SUPERVISORS, DIST. 4: (D) DIAMOND
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.432



BOARD OF SUPERVISORS, DIST. 4: (R) CHRISTY
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.518

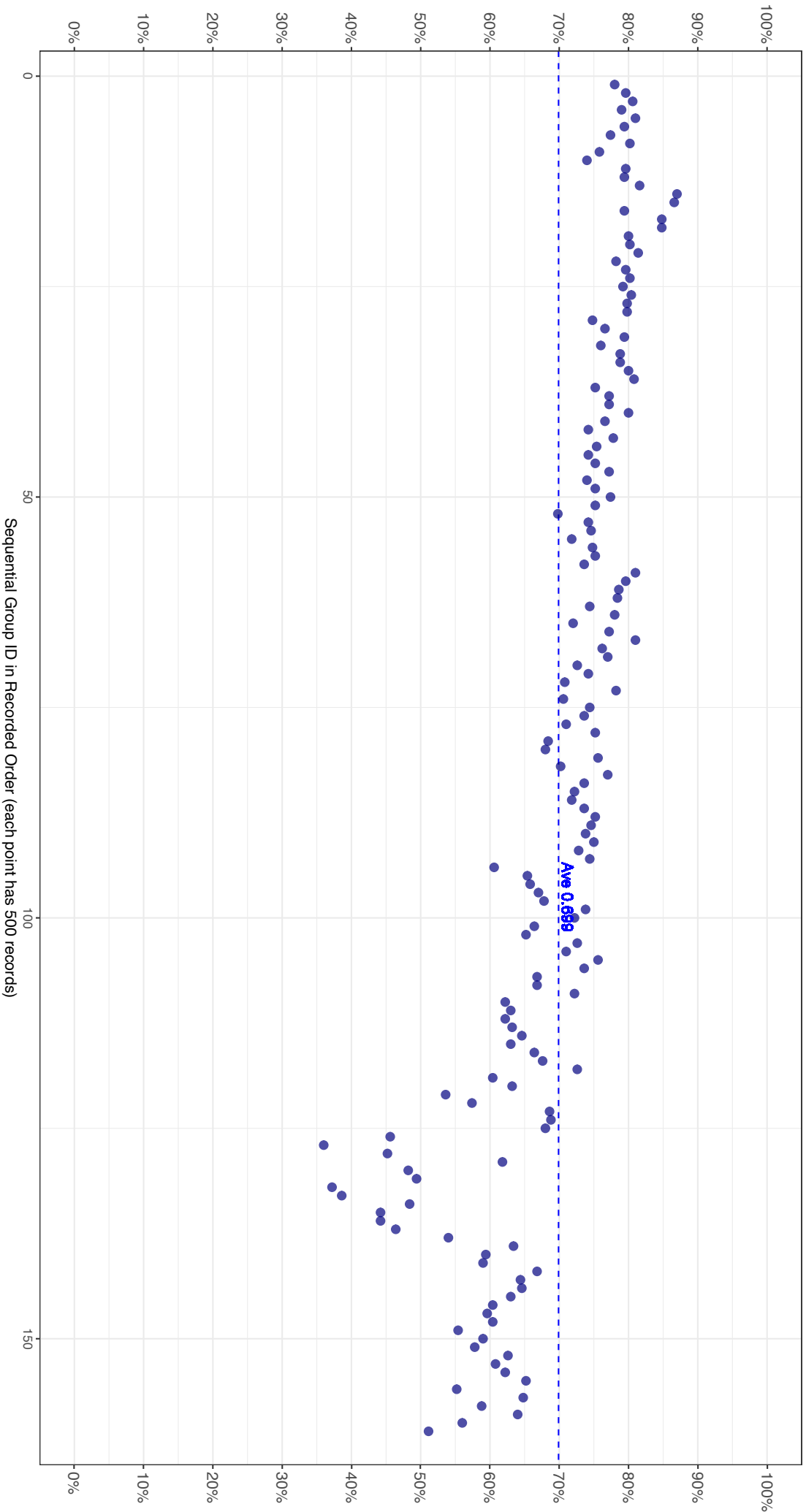


Cumulative Ratio of Votes: (D) DIAMOND -to- (R) CHRISTY
Contest: BOARD OF SUPERVISORS, DIST. 4
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 0.83

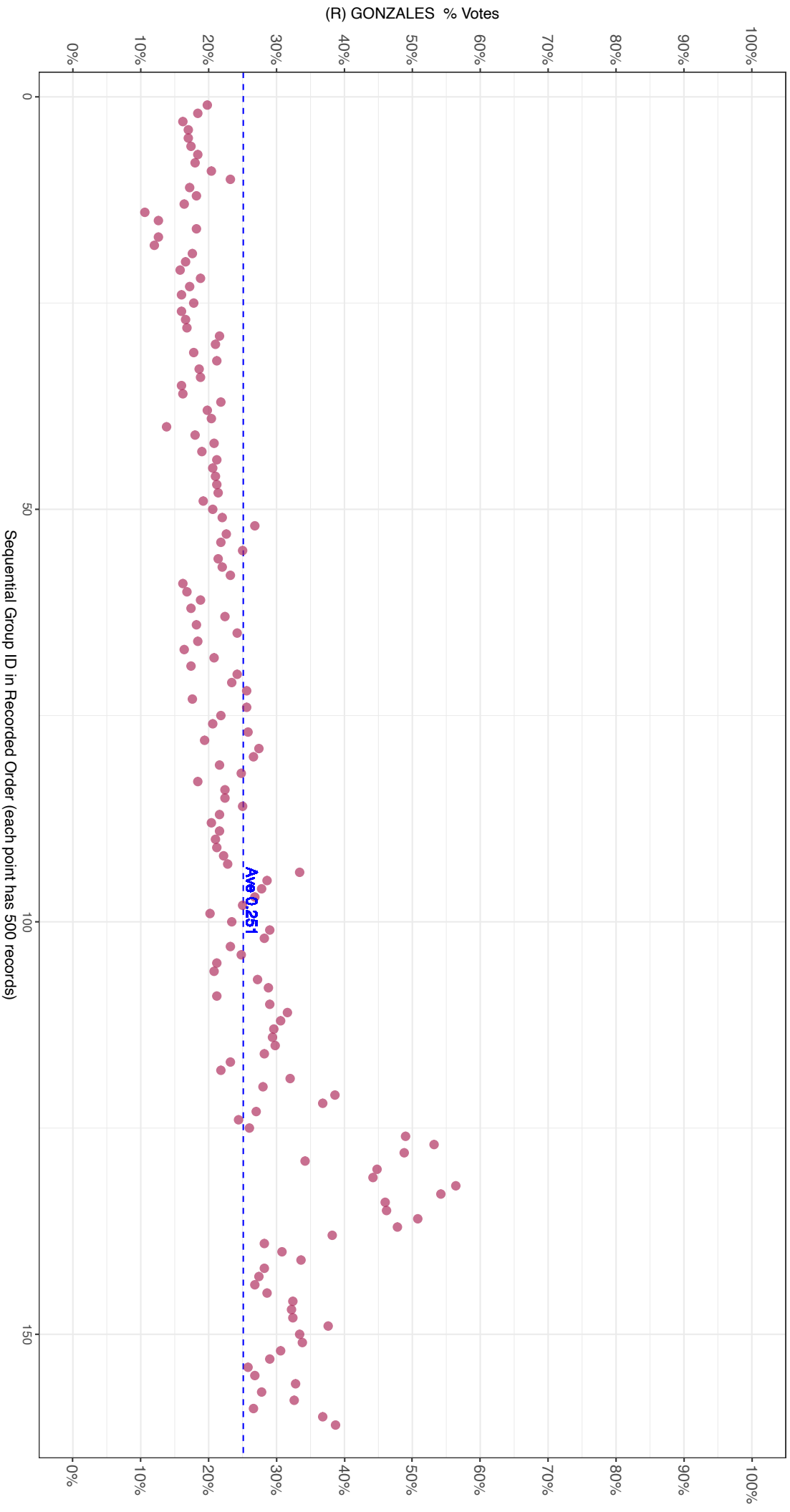


Sequential Group ID in Recorded Order (each point has 500 records)

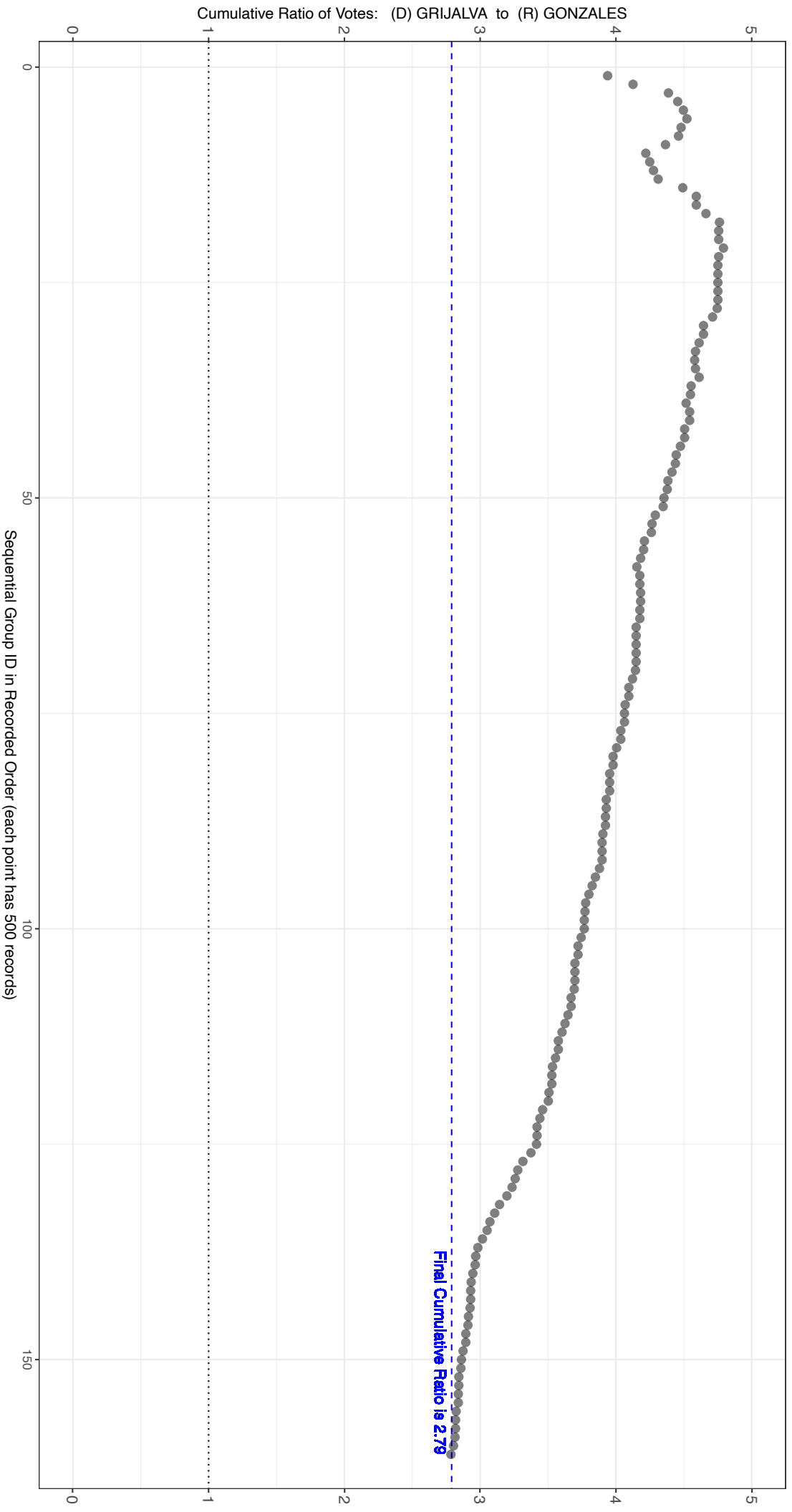
BOARD OF SUPERVISORS, DIST. 5: (D) GRIJALVA
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.699



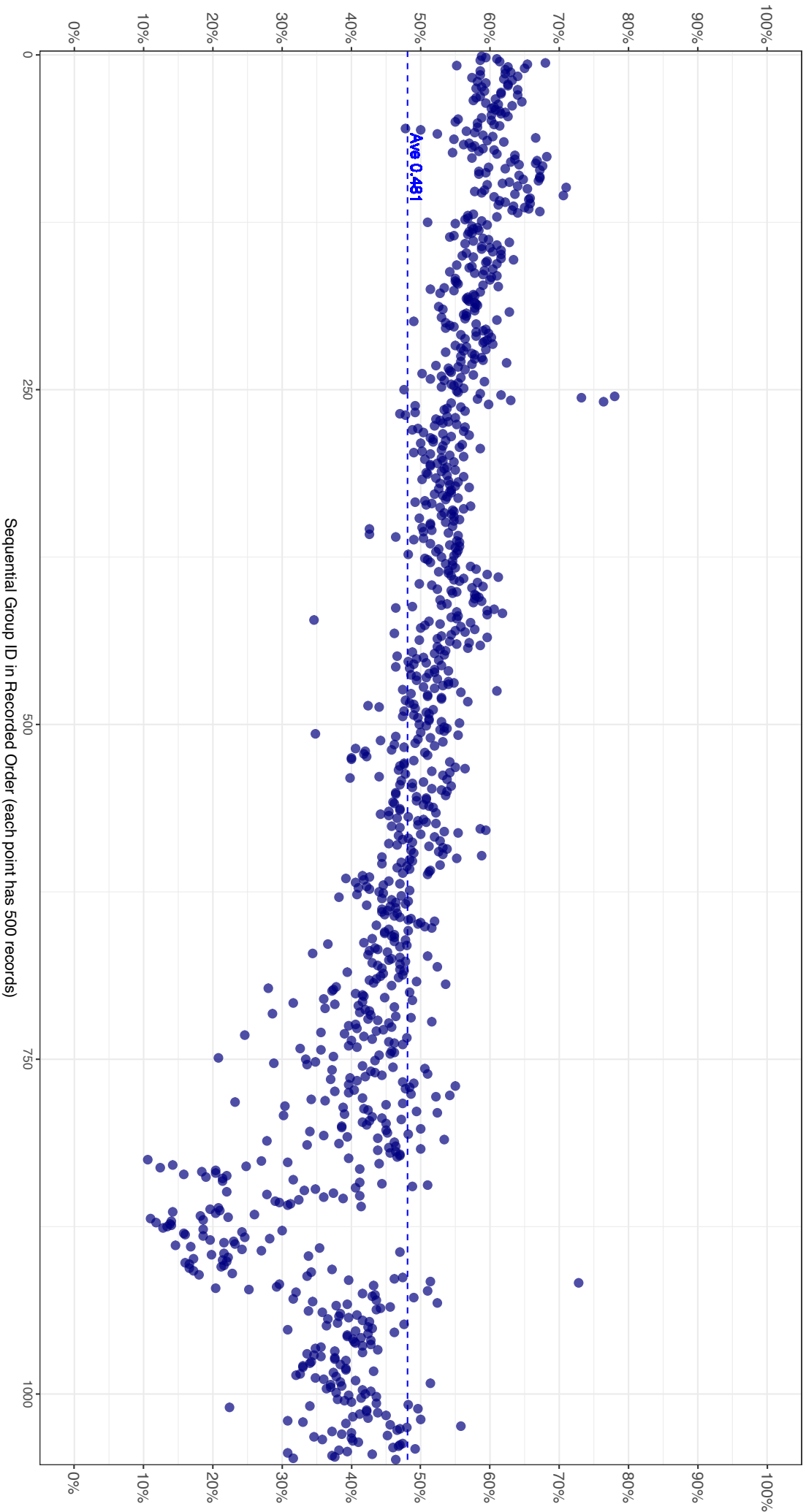
BOARD OF SUPERVISORS, DIST. 5: (R) GONZALES
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.251



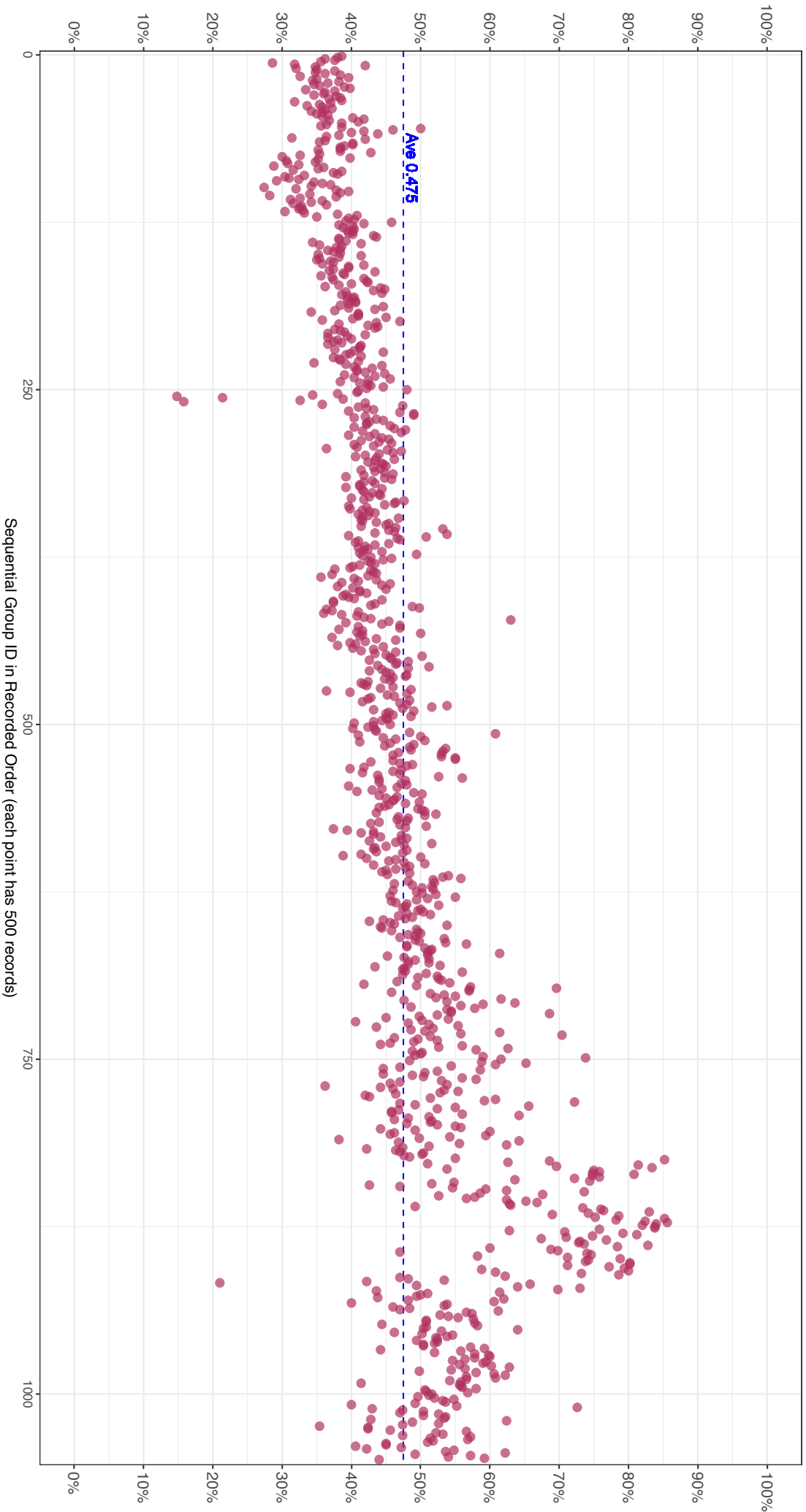
Cumulative Ratio of Votes: (D) GRIJALVA -to- (R) GONZALES
Contest: BOARD OF SUPERVISORS, DIST. 5
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 2.79



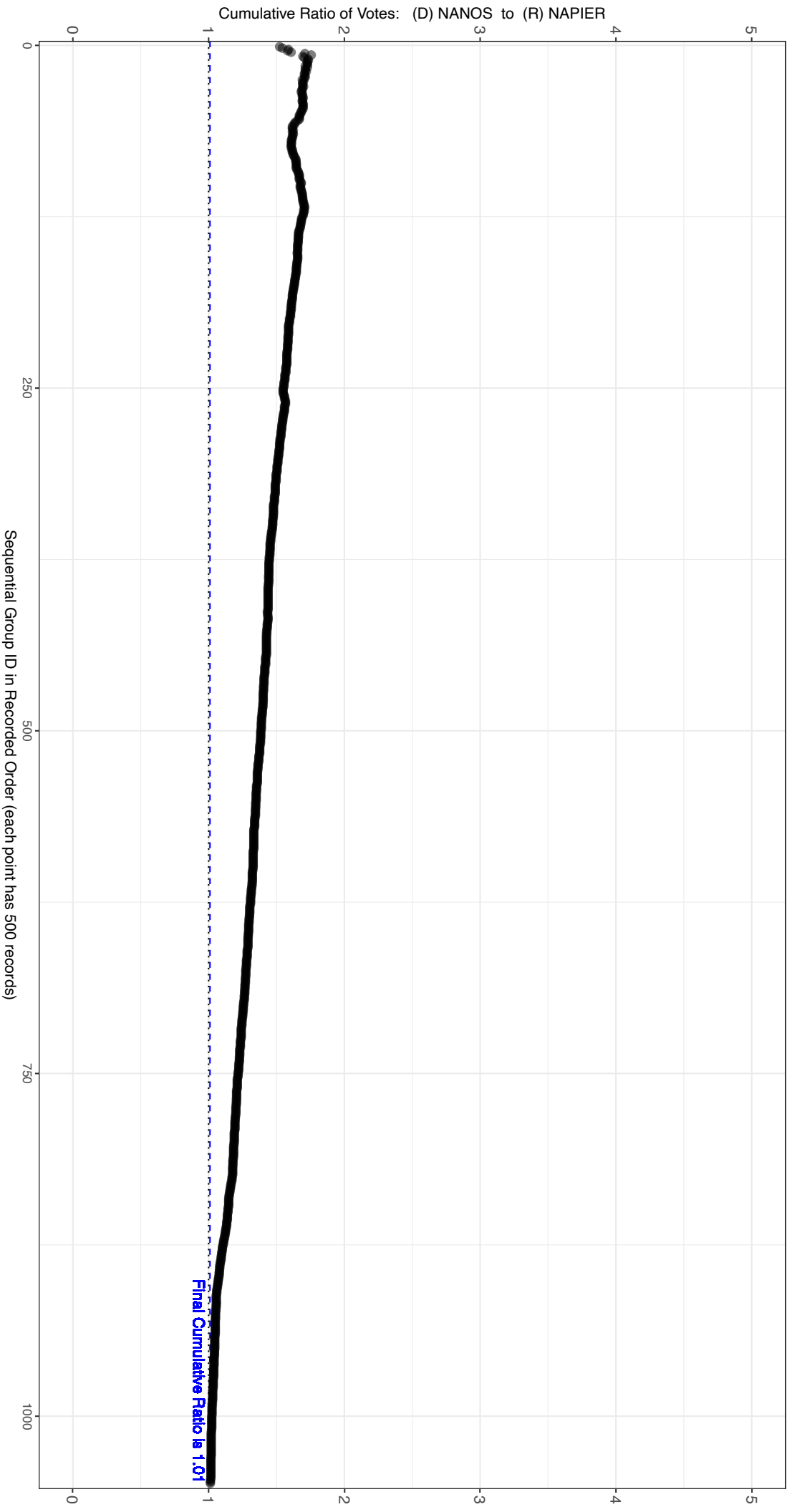
SHERIFF: (D) NANOS
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.481



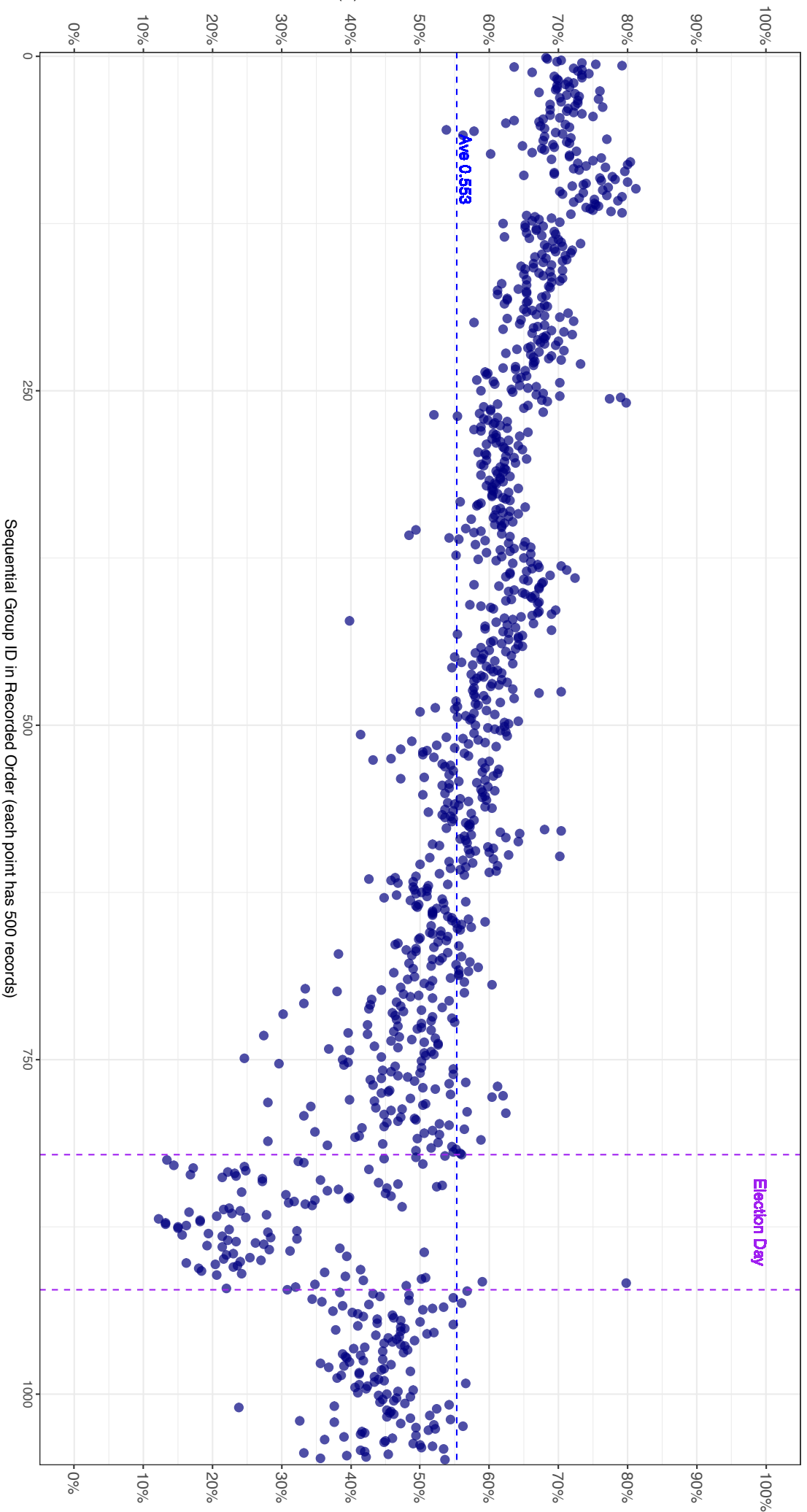
SHERIFF: (R) NAPIER
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.475



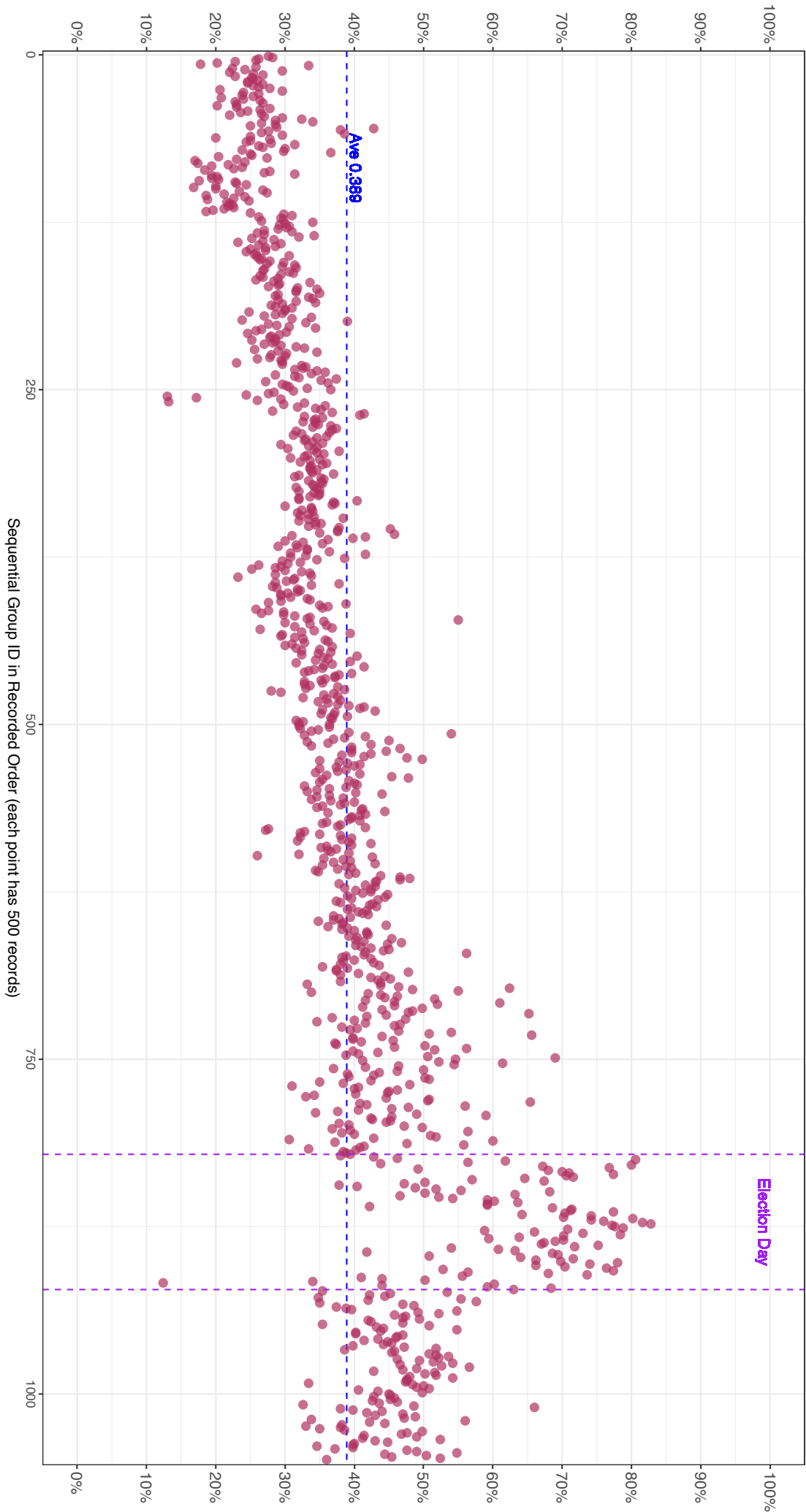
Cumulative Ratio of Votes: (D) NANOS -to- (R) NAPIER
Contest: SHERIFF
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 1.01



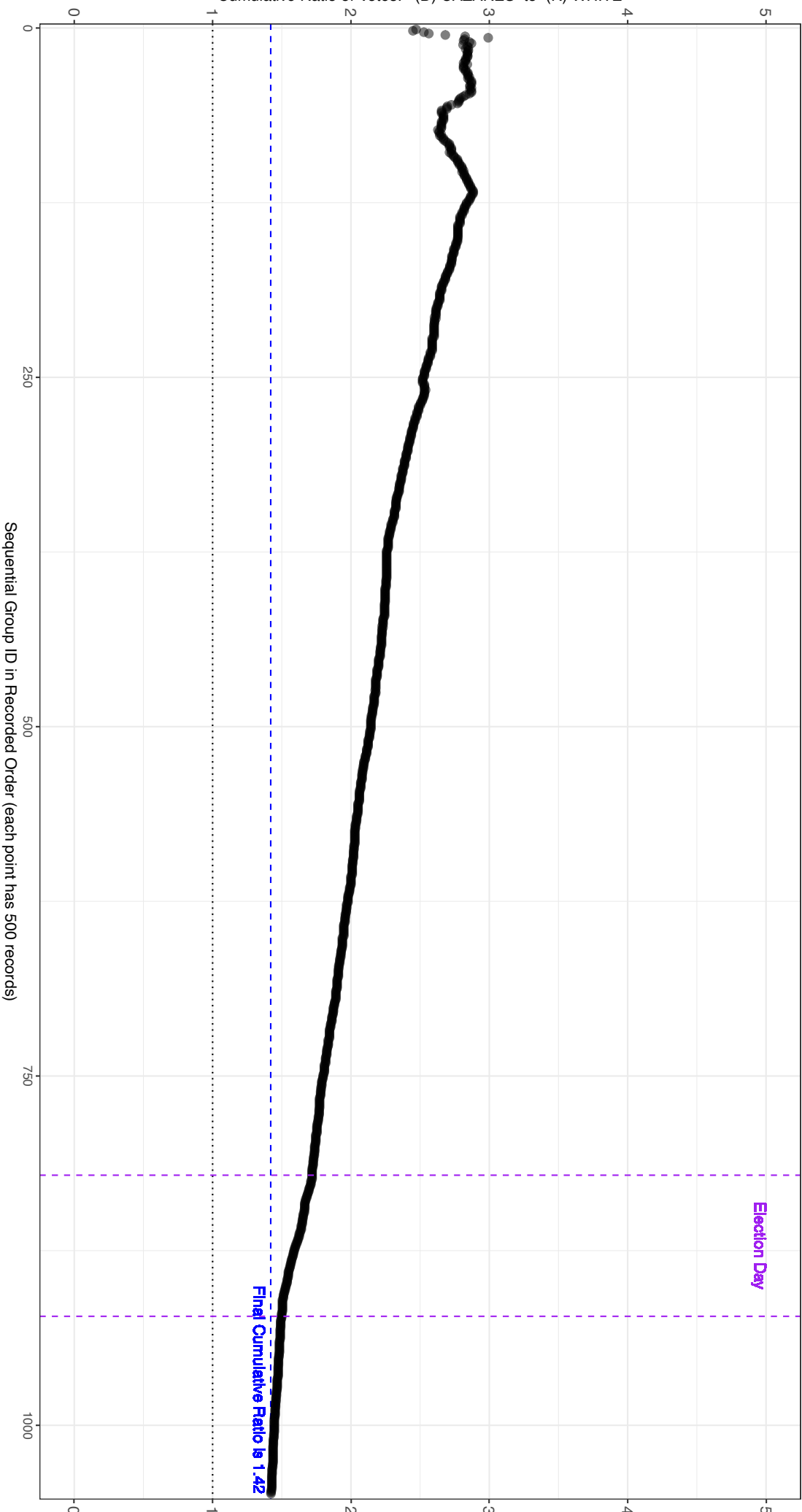
COUNTY RECORDER: (D) CÁZARES
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.553



COUNTY RECORDER: (R) WHITE
Vote % in Sequential Groups of Size 500
ALL Cast Vote Records (CVRs)
PIMA County Arizona 2020 -- Ave = 0.389



Cumulative Ratio of Votes: (D) CÁZARES -to- (R) WHITE
Contest: COUNTY RECORDER
For ALL Cast Vote Records (CVRs) in Sequential Groups of Size 500
PIMA County Arizona 2020 -- Final Ratio is 1.42



Sequential Group ID in Recorded Order (each point has 500 records)