

The Iowa Caucuses

Voting Project

Part I: Iowa Caucuses Research:

The Iowa Caucus has played an important role since 1972. The Iowa caucus has successfully predicted the election outcome of the Republican and Democratic parties about 46.5% of the time.

Part II: Imagine you live in Mason City, Iowa and attend a Republican caucus for Precinct W1-P2 at the Highland Golf Course. The meeting organizers ask the voters to select their preferences for four candidates. The following preference schedule summarizes the results of the poll.

# Voters	19	6	36	39
1st	B	R	C	T
2nd	R	B	C	T
3rd	C	R	B	T
4th	T	R	C	B

B is Jeb Bush, C is Ted Cruz, R is Marco Rubio, and T is Donald Trump

Analysis:

- 100 people voted and Trump is the Plurality Method winner.
- Ted Cruz is the Instant Runoff winner.

Borda Count Scores:

- Jeb Bush: 205
- Ted Cruz: 272

- Marco Rubio: 306
- Donald Trump: 217
- Marco Rubio is the Borda Count winner

Copeland's Method Scores:

- Jeb Bush: 1
 - Ted Cruz: 2
 - Marco Rubio: 3
 - Donald Trump: 0
 - Marco Rubio is the Copeland's Method winner.
- There is no Condorcet candidate or Condorcet winner.

Part III: Determining the winner under the fairness criteria:

Since there is no Condorcet candidate, Majority winner, and the election is Monotonicity; then Donald Trump would be the winner by the Plurality Method since it does not violate any of the above criteria.