

Project Motivation & Focus

- "Do primary challengers increase electoral turnout in primary and general elections?"
- \circ Does how we choose candidates (appointments & incumbents vs primary elections) affect participation?
- Focus on one state, Delaware
 - \circ Generate valid comparisons: Election systems differ drastically by state electoral cycles, offices, and primary rules
 - ${}^{\circ}\text{ } \textbf{Keep data pre-processing manageable: } \textbf{Manual collation of data from multiple years and formats}$
- $\circ\,$ Rephrase to two questions that can actually be answered
 - $\circ~$ Are primary challenges associated with increased turnout in primary elections?
 - $\,{}^{\circ}\,$ Are primary challenges associated with increased turnout in general elections?

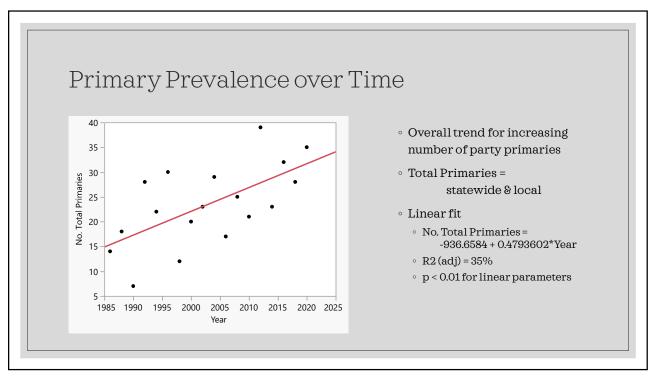
Delaware Electoral System

- Delaware has general elections every 2 years
- Federal election schedules
 - US House Representative (1): Every 2 years
 - President: Every 4 years
 - \circ US Senate (2): Every 6 years, staggered
- Statewide offices are split into cycles
 - $\circ \ \ Presidential \ years: Governor, Lt. \ Governor, Insurance \ Commissioner$
 - 。 Midterm years: Attorney General, Treasurer, Auditor
- History
 - $\circ~$ Primaries became permissible (vs party leadership appointment) in 1970
 - $_{\circ}$ Minimum voting age was lowered from 21 to 18 in 1970, effective for 1972

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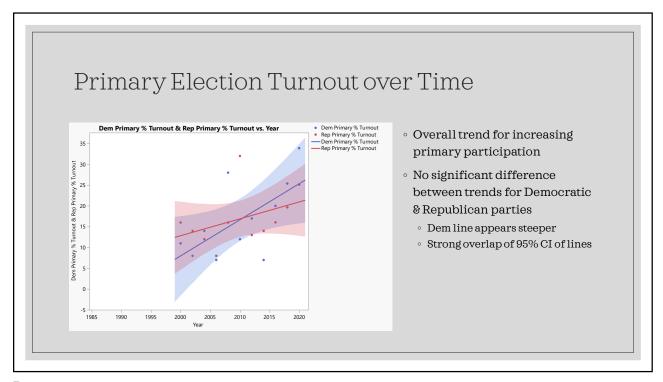
Data Sources

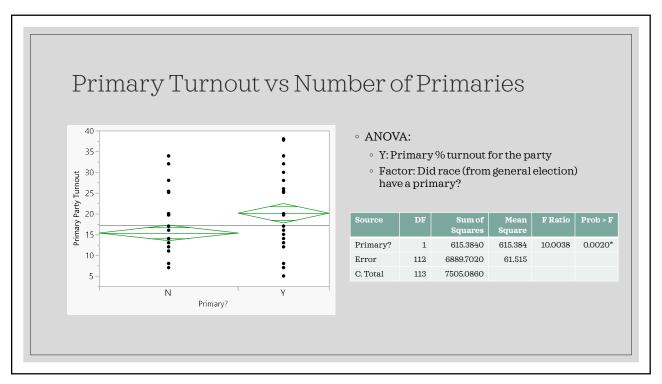
- Delaware State Department of Elections
 - Voting tally data at office level
 - Voter registration data
 - \circ Time period: 1986-2020
 - $\circ~$ Data formats: Text, delimited text, CSV, PDF
- \circ Simplification of data
 - Regular primary and general elections only (no special elections or school board)
 - Statewide offices (not local legislators, county offices, city council)
 - o One table of summary data one line per year
 - $\circ~$ Third party candidates consolidated to a single line, whether 1 or 6 $\,$
 - · For analysis, third party candidates were excluded: Frequent, low support, & no primaries



Q1. Are primary challenges associated with increased turnout in **primary** elections?

- $\,{}^{\circ}\,$ Primary turnout data were available from 2000-2020
- Summary Data
 - $\circ~$ Ys: Party % Turnout in the presidential or state primary election
 - Xs: Year, Election cycle (pres, midterm), Number of primaries (statewide, local, city of Wilmington)
- o Detailed Data
 - Ys: Party % Turnout in the presidential or state primary election
 - · Xs: Year, Primary for race

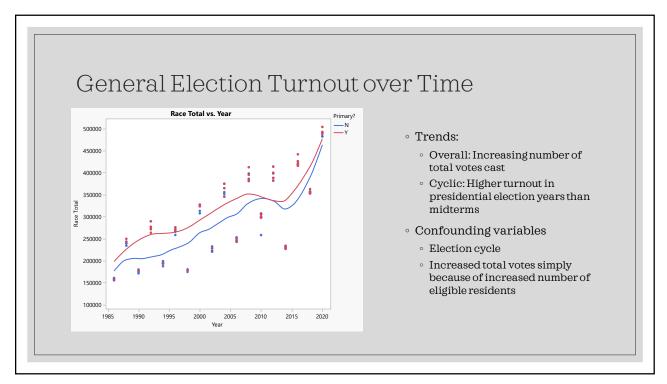


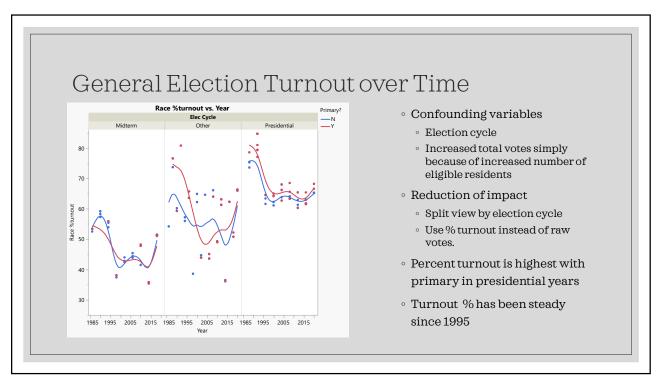


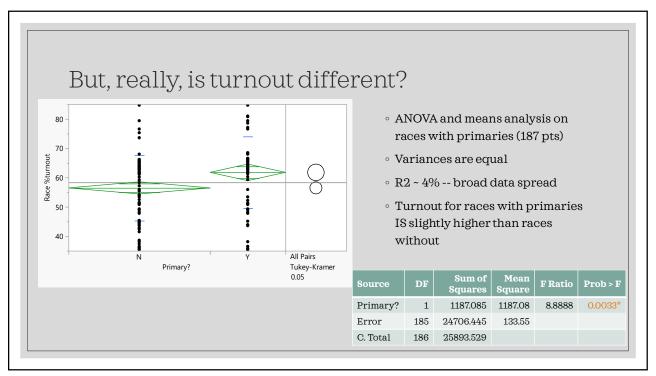
Q2. Are primary challenges associated with increased turnout in **general** elections?

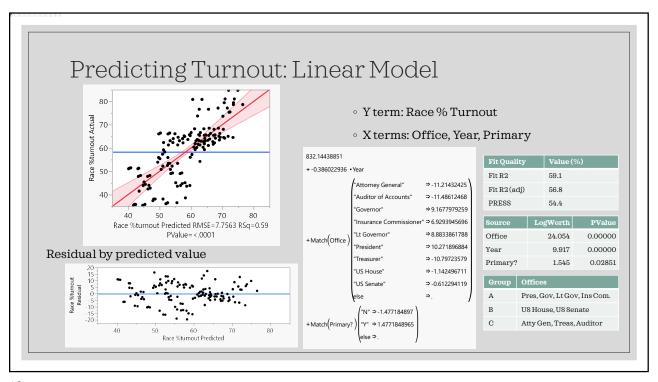
- General election turnout data are available from 1986-2020
- Summary Data (comparisons not shown)
 - Ys: Total % Turnout
 - Xs: Year, Election cycle (pres, midterm), Number of primaries (statewide, local, city of Wilmington)
- o Detailed Data
 - 。 Ys: Total % Turnout, Race total votes
 - · Xs: Year, Primary for race, Office, Incumbent
 - Unused data: Registered voters in party, Registered voters total, Primary turnout, Total voted (incomplete source data)

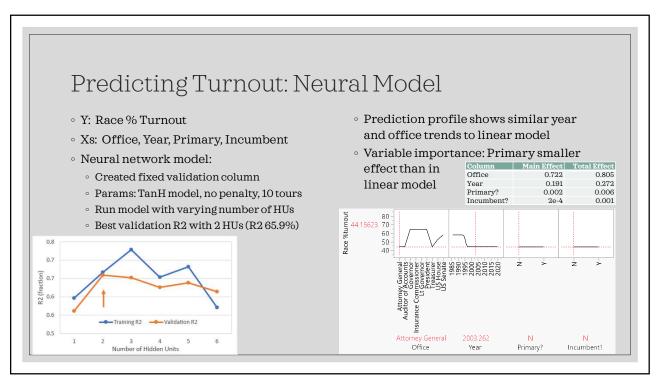
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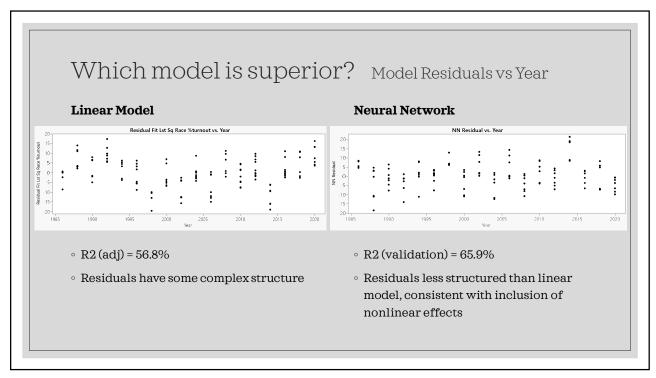












Conclusions

- Q1. Are primary challenges associated with increased turnout in primary elections?
 - $\,{}^{\circ}\,$ Yes, primaries are associated with higher primary turnout
 - Primary contests have also increased in frequency and turnout overtime
- $\circ\,$ Q2. Are primary challenges associated with increased turnout in general elections?
 - Yes, but effect is small; year and office have the strongest association with turnout
 - \circ A neural network model predicts turnout rate better than a linear model with similar terms
- \circ Further exploration
 - $\circ~$ Would different models improve understanding? (e.g. time series analysis)
 - $\,{}_{^{\circ}}\,$ Are these conclusions the same for local races (state legislators, county and city officials)
 - $\circ~$ What other factors impact turnout?
 - What are the trends for neighboring states?





