Does Politics Play a Role in SAT and ACT Participation Rates?

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Data Issues

There were a handful of data issues that we first had to resolve before doing analysis on the different datasets. I resolved these and merged all the datasets together to have a complete and final overview of what I was working with.

However, after looking on the surface I dove deeper into some specific values and found another huge error.

In the final dataset Florida's participation rate in 2017 is 83% then in 2018 it is 56% then in 2019 it is 100%. However in a <u>report</u> from college board Florida, in 2018 had a 97% participation rate.

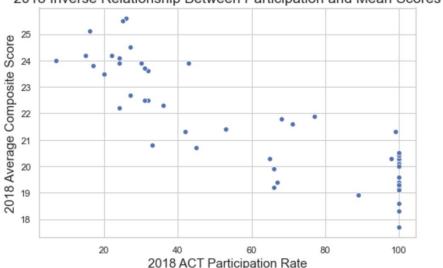
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Primary Findings:

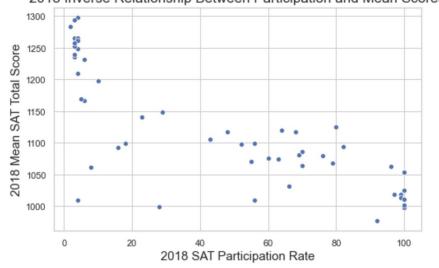
- Colorado had a 70 % decrease in act participation rates from 2017 to 2018 and an 89% increase in SAT participation rates from 2017 to 2018. <u>Source</u>
- Illinois had a 90% increase in SAT participation rates from 2017 to 2018. <u>Source</u>
- Middle states and southern states are predominantly ACT focused meanwhile Eastern and Western states are predominantly SAT focused.
- There is an inverse relationship between participation rates and mean scores.

Test Taking Bias







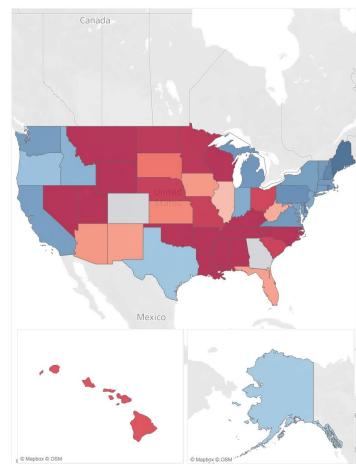


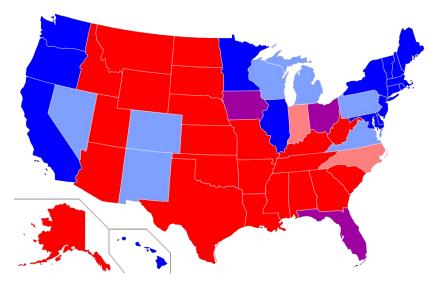
While analyzing my data I wanted to see the correlation between certain values and one of them was the participation rate and the total mean scores. Schools that tend to have lower participation rates tend to have higher test scores. Why is this?

Average ACT Participation Rate for 2017, 2018, 2019



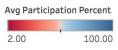
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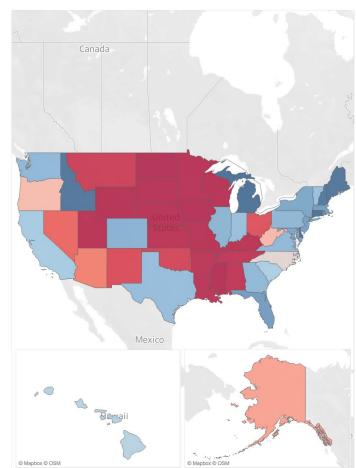


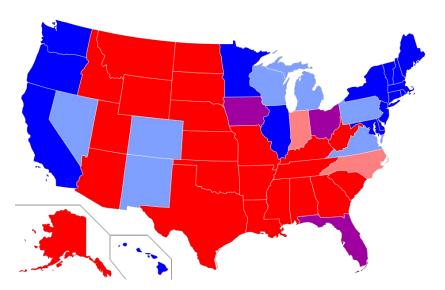
Summary of results of the 2004, 2008, 2012 and 2016 presidential elections
States carried by the Republicans in all four elections
States carried by the Republicans in three of the four elections
States carried by each party twice in the four elections
States carried by the Democrats in three of the four elections
States carried by the Democrats in all four elections
https://en.wikipedia.org/wiki/Red states and blue states

Average SAT Participation Rate for 2017, 2018, 2019



Link





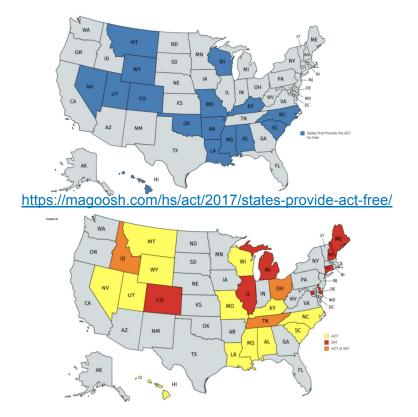
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https://en.wikipedia.org/wiki/Red_states_and_blue_states

Does politics play a role in SAT and ACT participation rates?

Not Necessarily

In the map to the right the blue states indicate where the ACT is free to take.

In this map to the right the yellow and orange states indicate where the ACT is mandatory to take.



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Conclusions & Recommendations

 If states would like a guaranteed increase in participation rate I would recommend offering the test for free and making it mandated in that specific state. This is why there is such a high percentage of people in the southern and middle states who take the ACT instead of the SAT.

- Offering the SAT during regular school hours
- Covering all parts of the exam fees
- Increasing access to honors and AP courses
- Increasing access to the PSAT and preparatory courses

Citations:

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