Supplementary Information

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Multinomial Regression Table

In Figure 5 in the body of the paper, we show the marginal effects plot based on a mulinomial logistic regression. Because those coefficients can be difficult to interpret on their own, we have included the regression table here. While the coefficients have been exponentiated in this table, the standard errors have been left unadjusted.

Table 1: Vote Mode in 2018 (Relative to In-Person on Election Day)

	Abstain	Early	Absentee
	(1)	(2)	(3)
Change in Distance to Polling Place (km)	1.047*** (0.002)	1.038*** (0.002)	1.038*** (0.002)
Distance to Closest Planned Polling Place (km)	0.970*** (0.003)	0.942*** (0.003)	1.000 (0.002)
White	0.951 (0.044)	1.041 (0.048)	0.958 (0.066)
Black	0.658*** (0.047)	1.007 (0.051)	0.886^* (0.070)
Latino	0.950 (0.067)	0.862** (0.075)	0.833* (0.107)
Asian	1.246** (0.092)	1.167 (0.098)	1.066 (0.136)
Male	0.964** (0.015)	1.019 (0.015)	0.998 (0.022)
Democrat	0.790*** (0.024)	0.819*** (0.026)	1.155*** (0.038)
Republican	0.656*** (0.023)	1.241*** (0.025)	1.150*** (0.036)
Age	1.001** (0.0005)	1.011*** (0.001)	1.026*** (0.001)
Constant	0.442*** (0.057)	0.310*** (0.061)	0.010*** (0.088)
Includes vote-mode in 2010, 2012, 2014, and 2016 Number of Observations McFadden Pseudo R2		X 191,211 0.269	

 $[\]label{eq:power_power} ^{***}p < 0.01, \, ^**p < 0.05, \, ^*p < 0.1.$ Standard errors in parentheses.

Alternative Processing Approaches

In the body of the paper, we use nearest-neighbor matching and a genetic weighting process. Here, we demonstrate that our primary results are robust to a variety of different preprocessing approaches.

In model 1 of Table 2 we do not process the data in any way before running a difference-indifferences model. In other words, every treated voter and potential control voter is included once, and all voters receive a weight of 1. This is a formalization of the left-hand panel of Figure 2[HARD CODED—CONFIRM BEFORE SUBMISSION] in the body of the paper.

In model 2, we use an approach called entropy balancing (Hainmueller 2012/ed). In this approach, every treated voter is given a weight of 1, while every control voter receives a unique weight based on their sociodemographic characteristics and past turnout history. Balancing is done using the same covariates used for the primary match in the body of the manuscript.

In model 3, we use propensity score matching (Caliendo and Kopeinig 2008). Each voter's propensity score is calculated using the same covariates as in the body of the paper. After estimating each voter's propensity score, we use a nearest-neighbor matching approach. Each treated voter is matched with 5 controls. Matching is done with replacement, and ties are randomly broken.

Finally, in model 4, we match treated voters to 5 controls using only individual-level characteristics (race, gender, party affiliation, age, and historical turnout). Control voters must exactly match their treated voters; treated voters who do not exactly match any control voters are dropped. Once again, matching is done with replacement, and ties are randomly broken.

As a reminder, the estimated treatment effect from the body of the paper was -6.6 percentage points. Table 2 makes clear that our results are robust to a variety of preprocessing ap-

proaches. Entropy balancing and propensity score matching return estimated effects within 0.1 percentage points of our primary models. Exact matching and unprocessed difference-in-difference approaches return substantially larger treatment effects.

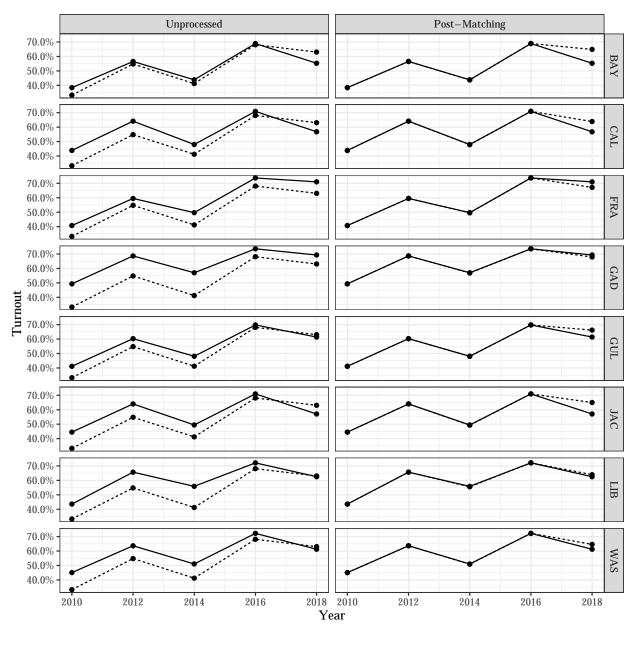
Table 2: Alternative Processing Approaches

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	Unprocessed	Entropy Balancing	Propensity Score	Exact Match
	(1)	(2)	(3)	(4)
Treated	0.043*** (0.001)	0.000 (0.0001)	0.001*** (0.0004)	0.014^{***} (0.0004)
2018	0.137*** (0.0001)	0.105*** (0.0002)	0.105*** (0.001)	0.123*** (0.001)
Treated \times 2018	-0.099^{***} (0.001)	-0.067^{***} (0.0003)	-0.067^{***} (0.001)	-0.081^{***} (0.001)
Constant	-0.282^{***} (0.001)	-0.300^{***} (0.001)	-0.308*** (0.002)	-0.377^{***} (0.002)
Includes Matched Covariates	X	X	X	X
Observations R^2 Adjusted R^2	60,041,820 0.152 0.152	60,041,820 0.161 0.161	5,925,990 0.161 0.161	5,773,440 0.175 0.175

 $^{^{***}}p<0.01,\,^{**}p<0.05,\,^*p<0.1.$

County-Specific Effects

In the body of this paper, Figure 2 presents the overall pre- and post-treatment trends for treated and control voters. However, lumping each of the treated counties together masks considerable heterogeneity. In Figure 1 we plot the unprocessed and matched turnout trends for treated and control voters, broken out for each of the 8 treated counties. Figure 1 makes clear that the treatment effect varied substantially by county.



Treatment Group — Treated Group --- Control Group

Figure 1: Pre- and Post-Matching County Plots

Table 3 re-estimates model 1 from Table 2 in the body of the paper, but interacts the treatment term with each of the treated counties. This allows us to measure the difference in treatment effect for each county. The reference category in Table 3 is Bay County.

Table 3: Turnout, 2010 - 2018

	Turnout
Treated	0.0002***
	(0.00003)
2018	0.130***
	(0.001)
Treated \times 2018	-0.096***
	(0.001)
Treated \times 2018 \times Calhoun	0.025***
	(0.005)
Treated \times 2018 \times Franklin	0.134***
	(0.005)
Treated \times 2018 \times Gadsden	0.109***
	(0.003)
Treated \times 2018 \times Gulf	0.048***
	(0.005)
Treated \times 2018 \times Jackson	0.016***
	(0.003)
Treated \times 2018 \times Liberty	0.081***
v	(0.007)
Treated \times 2018 \times Washington	0.062***
	(0.004)
Includes Fixed Effects for Treated County	X
Includes Fixed Effects for Treated County interacted with 2018	X
Observations	5,925,990
\mathbb{R}^2	0.010
Adjusted R ²	0.010

 $^{***}p<0.01,\,^{**}p<0.05,\,^*p<0.1.$ Robust standard errors (clustered at level of match) in parentheses.

As discussed in the body of the paper we argue that the treatment effects are largely mod-

erated by the number of polling places each county kept open, and that these effects were larger than the relative rainfall. In Figures 2 and 3, we plot each county's estimated treatment effect from Table 3 against the relative rainfall experienced by the average voter in each county, and share of polling places that county kept open. The relationship is clear: while there is not a particularly strong relationship between county rainfall and the estimated treatment effect, the treatment effect was much larger in counties where more polling places were closed.

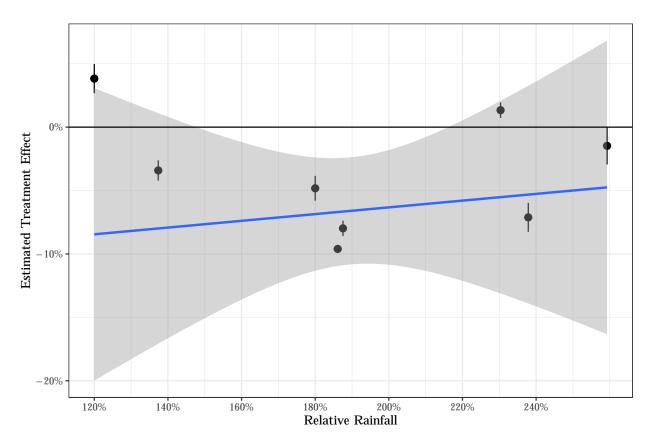


Figure 2: Relationship Between County Treatment Effect and Relative Rainfall

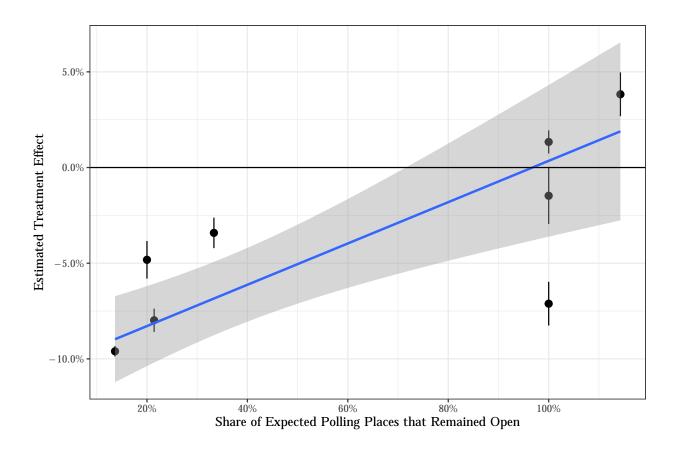
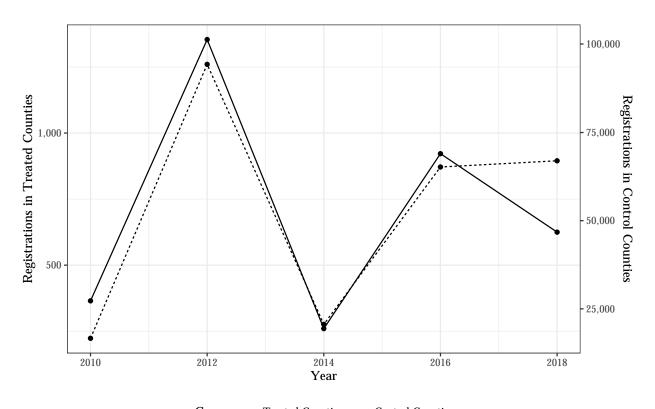


Figure 3: Relationship Between County Treatment Effect and Share of Polling Places Open

Impact on Registrations



Group — Treated Counties --- Control Counties

Figure 4: Registrations in Final Days Before Bookclosing

Caliendo, Marco, and Sabine Kopeinig. 2008. "Some Practical Guidance for the Implementation of Propensity Score Matching." *Journal of Economic Surveys* 22 (1): 31–72. https://doi.org/10.1111/j.1467-6419.2007.00527.x.

Hainmueller, Jens. 2012/ed. "Entropy Balancing for Causal Effects: A Multivariate Reweighting Method to Produce Balanced Samples in Observational Studies." *Political Analysis* 20 (1): 25–46. https://doi.org/10.1093/pan/mpr025.