

VEST HI 2020

State: Hawaii

Organization: Voting and Election Science Team (VEST)

Summary of Races included: Presidential

Date File Updated: 05/27/2021 Date Report Updated: 07/06/2021 RDH Validation Code (Github):

https://github.com/nonpartisan-redistricting-datahub/pdv-hi/tree/main/vest-hi-2020

RDH Criteria	Explanation
Is all raw data available? Yes	Accessible files: Precinct Shapefile Accessed: 07/02/2021, Source: Hawaii Statewide GIS Program Link: (http://geoportal.hawaii.gov/datasets/election-precincts-) Precinct Election Results Accessed: 07/02/2021, Source: Hawaii Office of Elections Link: (https://elections.hawaii.gov/election-results/) Direct link to text file: (https://elections.hawaii.gov/wp-content/results/media.txt) VEST HI 2020 Data File Accessed: 07/02/2021, Source: VEST on the Harvard Dataverse Link: (https://dataverse.harvard.edu/file.xhtml?fileId=4750434&version=13.0) VEST HI 2020 Documentation Accessed: 07/02/2021, Source: VEST on the Harvard Dataverse Link: (https://dataverse.harvard.edu/file.xhtml?fileId=4863160&version=13.)
Processing steps available? Yes	 Description of processing steps: VEST did not provide processing steps in their documentation, beyond column header descriptions.



	 Information not in their processing steps: With the election results file from the Office of Elections, the RDH changed the state's naming conventions of column headers to match VEST and pivoted the election results so that the contest and candidates were the column headers with votes as values in the table. After pivoting the election results, the precinct identifiers matched VEST's in all cases but the election results file was missing 13 precinct identifiers in VEST's which had zero votes. The precinct identifiers in the shapefile matched those of VEST.
Able to replicate joining election data and shapefiles?	Yes, while VEST did not describe their processing steps in the documentation, because the precinct names matched up and election results were straightforward, it was possible to replicate VEST's results without issue. • 250 precincts joined out of 262, the 12 remaining being zero-vote precincts. Therefore, once joined, all precincts from VEST's file were accounted for. • All precinct names matched between VEST's file, the election results and the precinct shapefile used from the state, and therefore no name changes were required. • The no-vote precincts are listed in the notebook.
Able to replicate joining demographic data to block-level shapefiles?	There is no demographic data on the file.
Able to replicate joining boundary data?	There is no boundary data on the file.



Successfully ran validation?

Yes

Election results: Yes

- We validated election results at three different levels:
 - Statewide candidate vote totals
 - Countywide candidate vote totals
 - o Precinct-level candidate votes
- At the statewide total level, the election results matched VEST's. The totals also matched the election results report for Hawaii from the New York Times.

(https://www.nytimes.com/interactive/2020/11/03/us/elections/results-haw aii.html)

- At the countywide total level the election results matched VEST's.
- At the precinct-level the election results matched VEST's.

Geographies: Yes

- Out of 262 total precincts:
 - o 262 precincts w/ a difference of 0 km^2