

VEST OH 2020

State: Ohio Organization: Voting and Election Science Team (VEST) Summary of Races included: Presidential [General] Date File Updated: 04/06/2021 Date Report Updated: 09/21/2021 RDH Validation Code (Github): https://github.com/nonpartisan-redistricting-datahub/pdv-oh/tree/main/vest-oh-2020

Explanation
 Accessible files: VEST OH 2020 Data File Accessed: 05/26/2021, Source: VEST on the Harvard Dataverse https://dataverse.harvard.edu/file.xhtml?fileld=4499012&version=5.0 VEST OH 2020 Documentation File Accessed: 05/26/2021, Source: VEST on the Harvard Dataverse https://dataverse.harvard.edu/file.xhtml?fileld=4499010&version=5.0 VEST OH 2020 Documentation File Accessed: 05/26/2021, Source: VEST on the Harvard Dataverse https://dataverse.harvard.edu/file.xhtml?fileld=4499010&version=5.0 Election Results, SOS 2020 Accessed: 05/26/2021, Source: OH SOS https://www.sos.state.oh.us/elections/election-results-and-data/202 <i>Q/</i> Note: selected "Results by Precinct (XLSX)" under "Court of Appeals" Precinct Shapefile Accessed: 05/26/2021, Source: US Census https://www2.census.gov/geo/tiger/TIGER2020PL/STATE/39_OHIO/39 <i>L</i> Note: VEST refers to their precinct shapefile source as 'the U.S. Census Bureau's 2020 Redistricting Data Program final release'. We believe this is the 2020 TIGER/Line VTD file. Download 'tL_2020_39_vtd20.zip' Note: VEST mentions a handful of municipal-level files used in their shapefile processing. We did not attempt to locate these.

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Processing steps available? Yes	 Description of processing steps: VEST's documentation, accessed 05/26/2021, is pasted below:
Able to replicate joining election data and shapefiles? Yes	Yes, we were able to replicate joining election data and shapefiles. We joined all 8941 precincts. 8 of these precincts were zero-vote precincts that were initially not present in the election results.
Able to replicate joining demographic data to block-level shapefiles? N/A	There is no demographic data on the file.
Able to replicate	There is no boundary data on the file.

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joining boundary data? N/A	
Successfully ran validation? Yes	 Election results; Yes We validated election results at three different levels: Statewide candidate vote totals Countywide candidate votes At the statewide total level, the election results matched VEST's. The totals also matched those of OH's election summary report (https://www.sos.state.oh.us/elections/election-results-and-data/2020/). At the countywide total level, the election results matched VEST's. The totals also matched those of OH's county-level election summary report (https://www.sos.state.oh.us/elections/election-results-and-data/2020/). At the countywide total level, the election results matched VEST's. The totals also matched those of OH's county-level election summary report (https://www.sos.state.oh.us/elections/election-results-and-data/2020/). At the precinct-level, all 8933 precincts matched exactly. There were 8 zero-vote precincts in VEST's file that were not present in the election results. These 8 were later added to the election results with zero-votes as they also appeared in the shapefile. Dut of 8941 total precincts: 8659 precincts w/ a difference between 0 and 1 km^2 23 precincts w/ a difference between 1 and 5 km^2 3 precincts w/ a difference between 1 and 5 km^2 0 precincts w/ a difference between 1 and 5 km^2 0 precincts w/ a difference between 2 and 5 km^2 0 precincts w/ a difference between 1 and 5 km^2 0 precincts w/ a difference between 2 and 5 km^2 0 precincts w/ a difference between 2 and 5 km^2 In their documentation, VEST mentions shapefile modifications in the following counties: Adams, Franklin, Guernsey, Montgomery, Tuscarawas, Wayne, Athens, Brown, Butler, Champaign, Clark, Crawford, Cuyahoga, Delaware, Fairfield, Greene, Hamilton, Knox, Lake, Medina, Richland, Stark, summit, and Warren. The 28 precincts with differences over 1 km^2 are all located in Crawford, Gree

