

VEST WA 2020

State: Washington

Organization: Voting and Election Science Team (VEST)

Summary of Races included: Presidential, Governor, Lieutenant Governor, Secretary of State, State Treasurer, State Auditor, Attorney General, Commissioner of Public Lands, Insurance Commissioner [General]

Date File Updated: 08/25/2021

Date Report Updated: 10/20/2021

RDH Validation Code (Github): <u>https://github.com/nonpartisan-redistricting-datahub/pdv-wa</u>

RDH Criteria	Explanation
Is all raw data available? Yes	 Accessible files: VEST WA 20 Data File Accessed: 10/20/21, Source: VEST on the Harvard Dataverse https://dataverse.harvard.edu/file.xhtml?fileld=5007851&version=21.0 VEST WA 20 documentation file Accessed: 10/20/21, Source: VEST on the Harvard Dataverse https://dataverse.harvard.edu/file.xhtml?fileld=5206372&version=21.0 WA 20 Precinct-Level Results Accessed: 10/20/21, Source: Washington Secretary of State https://www.sos.wa.gov/elections/research/2020-general-election.as pX Note: These can be downloaded by clicking "GIS Ready Precinct Results". WA Precinct Shapefile Accessed: 10/20/21, Source: Washington Secretary of State https://www.sos.wa.gov/elections/research/precinct-shapefiles.aspx Note: Download "Statewide_Precincts_2020General.zip". WA Cartographic Boundary File Accessed: 10/14/21, Source: US Census https://www.census.gov/geographies/mapping-files/time-series/geo/carto-boundary-file.html

redistricting ... data hub

	 Note: Download "cb_2018_us_county_5m.zip". This file was not needed for the validation, but used because we suspected VEST clipped their precinct shapefile using a cartographic boundary file.
Processing steps available? Yes	 Description of processing steps: VEST's documentation, which can be fully accessed at the link above are pasted below: Election results and precinct shapefile from the Washington Secretary of State (https://www.sos.wa.gov/elections/research/election-results-and-vot ers-pamphlets.aspx) In Kittitas County the votes reported as Ellensburg 28 in the Secretary of State results are actually those of Cle Elum 2. Ellensburg 28 was not a distinct voting precinct for the 2020 general election.
Able to replicate joining election data and shapefiles? Yes	 Yes, given the documentation they provided we were able to complete the join and joined 7464 out of 7464 precincts. 31 of these precincts were zero-vote precincts that were not initially present in the election results. 3 precincts were disregarded as they were zero-vote precincts that appeared in the election results but did not have any geometries associated with them.
Able to replicate joining demographic data to block-level shapefiles? N/A	There is no demographic data on the file.
Able to replicate joining boundary data?	There is no boundary data on the file.

redistricting ... data hub

N/A	
Successfully ran validation? Yes	 Election results: Yes We validated election results at three different levels: Statewide candidate vote totals Countywide candidate vote totals Precinct-level candidate votes At the statewide total level, the election results matched VEST's. The totals also matched those of WA's election summary report (https://www.sos.wa.gov/ assets/elections/research/official%20canvass%20 of%20the%20returns%20g2020 %20certification%201%202020.pdf). At the countywide total level, the election results matched VEST's. The totals also matched those of WA's county-level election summary report (https://www.sos.wa.gov/ assets/elections/research/official%20canvass%20 of%20the%20returns%20g2020 %20certification%201%202020.pdf). At the countywide total level, the election results matched VEST's. The totals also matched those of WA's county-level election summary report (https://results.vote.wa.gov/results/20201103/). At the precinct-level, all 7433 precincts matched exactly. There were 31 zero-vote precincts in VEST's file not present in the election results that were not compared at this step. Geographies: Yes Out of 7462 total precincts (there were 2 precincts with invalid geometries that we were unable to fix): 3003 precincts w/ a difference of 0 km^2 4307 precincts w/ a difference between 0 and 1 km^2 40 precincts w/ a difference between 1 and .5 km^2 19 precincts w/ a difference between 1 and 2 km^2 24 precincts w/ a difference between 1 and 2 km^2 24 precincts w/ a difference between 1 and 5 km^2 25 precincts w/ a difference between 2 and 5 km^2 44 precincts w/ a difference between 1 and 5 km^2 14 appears as though close to all the precinct area differences occurred due to water boundaries, which led us to suspect that VEST clipped it's <
	geometry file using a cartographic file. After clipping the WA precinct shapefile with a cartographic map from the census, we found that the water differences largely disappeared.