

VEST ID 2020

State: Idaho

Organization: Voting and Election Science Team (VEST)

Summary of Races included: Presidential, U.S. Senate [General]

Date File Updated: 06/09/2021

Date Report Updated: 10/05/2021

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

RDH Criteria	Explanation
<p>Is all raw data available?</p> <p>No</p>	<p>Accessible files:</p> <ul style="list-style-type: none"> ● VEST ID 20 data file <ul style="list-style-type: none"> ○ Accessed 08/18/21, Source: VEST ○ https://dataverse.harvard.edu/file.xhtml?fileId=4789401&version=16.0 ● VEST ID 20 documentation file <ul style="list-style-type: none"> ○ Accessed: 08/18/21, Source: VEST ○ https://dataverse.harvard.edu/file.xhtml?fileId=4986645&version=16.0 ● ID Precinct-Level Election Results <ul style="list-style-type: none"> ○ Accessed: 08/18/21, Source: ID Secretary of State ○ https://sos.idaho.gov/elections-division/election-results/ ○ Note: Downloaded 2020 canvass files ○ File name: 18gen_stwd_pct.xls (available upon request) ● ID Voting Precincts 2018 Shapefile <ul style="list-style-type: none"> ○ Accessed: 05/18/21, Source: U.S. Census Bureau's 2020 Redistricting Data Program Phase 2 release ○ https://www.census.gov/geo/partnerships/pvs/partnership19v2/st16_id.html ○ Note: Up to 5 downloaded at a time ● Ada County Shapefile <ul style="list-style-type: none"> ○ Notes: Emailed Ada election office 06/28/21 ○ https://adacounty.id.gov/elections/maps/#Precinct_Maps Click "County Mapper" ● Adams County Shapefile <ul style="list-style-type: none"> ○ Notes: Emailed 06/28/21 Only PDF map available

- https://co.adams.id.us/wp-content/uploads/VoterPrecincts_18x24_140117.pdf
- Bannock County Shapefile
 - Notes: Emailed 06/28/21 Shapefile only available for \$100
 - <https://bannock.maps.arcgis.com/home/index.html>
- Bingham County Shapefile
 - Notes: Emailed 06/28/21 Needed payment to release shapefile.
 - https://www.co.bingham.id.us/bingham_county_gis_mapping/interactive_gis.html
- Boise County Shapefile
 - Notes: Accessed 06/28/21 Only PDF maps available
 - https://boisecounty.us/wp-content/uploads/2020/02/234precinctmap_00000000052.pdf
- Bonner County Shapefile
 - Notes: Emailed 06/28/21 Only online GIS available
 - <https://cloudgis.bonnercountyid.gov/portal/home/index.html>
- Cassia County Shapefile
 - Notes: Emailed 06/28/21 Only PDF maps available
 - <https://www.cassiacounty.org/Election-Maps>
- Clearwater County Shapefile
 - Accessed: 07/06/21, Source: Clearwater County
 - File: Available upon request
- Custer County Shapefile
 - Notes: Emailed county clerk(6/28/21) received the link below.
 - <https://www.greenwoodmap.com/custer/map#zcr=0.7558953227010576/1557500/935000/0&lyrs=statefed.ownership.cities.roads>
- Fremont County Shapefile
 - Notes: Emailed 06/28/21 Only online GIS available
 - https://www.co.fremont.id.us/departments/planning_building/gis/index.htm
- Jefferson County Shapefile
 - Accessed: 07/06/21, Source: Jefferson County
 - File: Available upon request
- Kootenai County Shapefile
 - Notes: Emailed 06/28/21 Only PDF maps available
 - <https://www.kcgov.us/319/Individual-Precinct-Maps>
- Latah County Shapefile
 - Notes: Emailed 06/28/21 Only PDF maps available
 - <https://api.latah.id.us/web/DownloadFileEx?filename=Official%20Voter%20Precinct.pdf>
- Madison County Shapefile

- Notes: Emailed 06/29/21 Only PDF maps available
- <https://www.co.madison.id.us/departments/elections/65-august-28-2018-election-precinct-voting-location-map>
- Minidoka County Shapefile
 - Notes: Emailed 06/29/21 Only PDF maps available
 - <https://www.minidoka.id.us/178/Voting-Precincts>
- Nez Perce
 - Notes: Emailed 06/29/21 Only PDF maps available
 - <https://www.co.nezperce.id.us/Elected-Officials/Clerk-Auditor/Elections/Precinct-List>
 - Click on “Maps of Precincts” on right side
- Oneida County Shapefile
 - Notes: Emailed 06/29/21 Only online GIS available
 - <https://maps.idahoparcels.us/web/>
 - Click Oneida County
- Power County Shapefile
 - Notes: Emailed 06/29/21 Only PDF maps available
 - <https://www.co.power.id.us/power-county-clerk-auditor-recorder/precinct-and-taxing-district-maps/>
- Twin Falls County Shapefile
 - Notes: Emailed 06/29/21 Only PDF maps available
 - <https://twinfallscounty.org/wp-content/uploads/TFCo-Legislative-Districts-002.pdf>
- Valley County Shapefile
 - Notes: Emailed 06/29/21 Only online GIS available
 - <http://www.co.valley.id.us/departments/election-information/>
 - Click “Taxing Districts/Voter Info”

Inaccessible files:

- Bear Lake County Shapefile
 - Notes: No shapefile or PDF maps
- Benewah County Shapefile
 - Notes: No shapefile or PDF maps
- Lemhi County Shapefile
 - Notes: Emailed 06/28/21 No shapefile or PDF maps
- Lewis County Shapefile
 - Notes: Emailed 06/28/21 No shapefile or PDF maps

Processing
steps

Description of processing steps:

<p>available?</p> <p>Yes</p>	<ul style="list-style-type: none"> ● The full processing steps can be accessed at the link above and were accessed on 08/18/21. Part of the documentation is copied below: <ul style="list-style-type: none"> ○ Election results from Idaho Secretary of State (https://sos.idaho.gov/elections-division/election-results/) ○ Absentee votes were reported countywide or by legislative district for Adams, Bannock, Bingham, Boise, Bonneville, Boundary, Clearwater, Custer, Elmore, Franklin, Fremont, Gem, Idaho, Jefferson, Jerome, Latah, Lemhi, Madison, Minidoka, Nez Perce, Owyhee, Shoshone, Teton, Twin Falls. These were distributed by candidate to precincts based on their share of the precinct-level vote for the given reporting unit. ○ Precinct shapefiles from the U.S. Census Bureau's 2020 Redistricting Data Program Phase 2 release, except the following counties used shapefiles sourced from the respective county governments instead: Ada, Adams, Bannock, Bingham, Boise, Bonner, Cassia, Clearwater, Custer, Fremont, Jefferson, Kootenai, Latah, Lemhi, Lewis, Madison, Minidoka, Nez Perce, Oneida, Power, Twin Falls, Valley. ○ County borders in all county-sourced shapefiles were aligned with the U.S Census Bureau's boundaries. The following additional modifications were made to match the 2018 precinct boundaries. ● The documentation also includes a list of precinct boundary modifications. ● We were able to distribute absentee votes based on processing steps and perform the merges, when we had a county shapefile. For some splits, we could visually confirm them, but did not perform them. <p><u>Information not in their processing steps:</u></p> <ul style="list-style-type: none"> ● List of name changes for precincts between election results and VEST's file. ● In Madison County VEST's map differs from the county precinct map. Specifically in Plano, Salem, and Sugar City precincts. Also Moody/17 has significant changes.
<p>Able to replicate joining election data and shapefiles?</p> <p>No</p>	<p>No, we were unable to replicate joining election data and shapefiles because we did not have shapefiles available for every county.</p> <p>For the counties in which we did have the appropriate shapefile, we were able to join 362 precincts.</p>

	<p>For some counties, we were unable to locate a shapefile, but could find a precinct map. For these counties, we took a quick look to see if the precinct names appeared to match the election results. This was the case in Ada, Adams, Bannock, Bingham, Boise, Bonner, Cassia, Custer, Gooding, Kootenai, Latah, Lewis, Madison, Minidoka, Nez Perce, Oneida, Power, Twin Falls and Valley counties.</p> <p>For 6 counties (Bear Lake, Benewah, Butte, Fremont, Idaho, Lemhi), we were unable to locate any map or shapefile and thus unable to replicate or check this join.</p>
<p>Able to replicate joining demographic data to block-level shapefiles?</p> <p>N/A</p>	<p>There is no demographic data on the file.</p>
<p>Able to replicate joining boundary data?</p> <p>N/A</p>	<p>There is no boundary data on the file.</p>
<p>Successfully ran validation?</p> <p>No</p>	<p><u>Election results:</u> Yes</p> <ul style="list-style-type: none"> ● We validated the election results at the state, county and precinct levels. ● At the state-level, candidate vote totals matched exactly. The statewide race totals also matched the totals from the State Canvass report (https://sos.idaho.gov/elections-division/2020-results-statewide/) on the ID SOS website. ● At the county-level, candidate vote totals matched exactly. The countywide totals also matched the totals from the report (https://sos.idaho.gov/elections-division/2020-results-statistics/) on the ID SOS website. ● At the precinct-level, there are 935 total precincts, of these: <ul style="list-style-type: none"> ○ 121 have election result differences

- 814 are the same
- The max difference between any one race in a precinct is: 30 votes
- The average difference is: 1.5 votes
- All precincts differences are within 1, except for in Elmore County, where it appears VEST treated 15 and 30 votes for Don Blankenship and Rocky De La Fuente in Mayfield as absentee votes to allocate. This step is defensible, given that this precinct recorded a heavily disproportionate share of votes for these candidates in the county.

Geographies: No

- We were not able to fully validate the geographies, as we did not have shapefile data for every county.
- For the counties where we did have shapefile data, we were able to validate 362 precincts. Of these:
 - 71 precincts w/ a difference of 0 km²
 - 220 precincts w/ a difference between 0 and 0.1 km²
 - 39 precincts w/ a difference between 0.1 and 0.5 km²
 - 8 precincts w/ a difference between 0.5 and 1 km²
 - 4 precincts w/ a difference between 1 and 2 km²
 - 8 precincts w/ a difference between 2 and 5 km²
 - 12 precincts w/ a difference greater than 5 km²
- VEST lists a number of shapefile changes that we did not carry out that could explain most of these differences. The notebook contains a print out of all differences larger than .5km².
- For a number of counties, we were unable to locate shapefiles, but able to locate county government maps. For these counties, we visually spot checked VEST's maps.
 - Counties where VEST appeared to match county maps: Ada, Adams, Bannock, Bingham, Bois, Bonner, Cassia, Custer, Gooding, Kootenai, Latah, Lewis, Minidoka, Nez Perce, Oneida, Power, Twin Falls, Valley
 - Counties where VEST did not appear to match county maps: Madison
- Lastly, there were 6 counties in which we were unable to locate either a shapefile or a map: Bear Lake, Benewah, Butte, Fremont, Idaho, Lemhi.