

VEST FL 2020

State: Florida

Organization: Voting and Election Science Team (VEST)

Summary of Races included: Presidential [General]

Date File Updated: 07/30/2021

Date Report Updated: 11/10/2021

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

RDH Criteria	Explanation
<p>Is all raw data available?</p> <p>No</p>	<p>Accessible files:</p> <ul style="list-style-type: none"> ● VEST FL 20 Data File <ul style="list-style-type: none"> ○ Accessed: 11/08/21, Source: VEST on the Harvard Dataverse ○ https://dataverse.harvard.edu/file.xhtml?fileId=4938250&version=24.0 ● VEST FL 20 Documentation <ul style="list-style-type: none"> ○ Accessed: 11/08/21, Source: VEST on the Harvard Dataverse ○ https://dataverse.harvard.edu/file.xhtml?fileId=5371928&version=24.0 ● Florida Precinct-Level Election Results <ul style="list-style-type: none"> ○ Accessed: 11/08/21, Source: Florida Division of Elections ○ https://dos.myflorida.com/elections/data-statistics/elections-data/precinct-level-election-results/ ○ Note: Click on "2020 General Election - Zip - 4.7 MB". ● Broward, Gadsden, Gilchrist, Manatee, Nassau, Santa Rosa, St. Johns, St. Lucie, and Union Precinct Maps <ul style="list-style-type: none"> ○ Accessed: 11/09/21, Source: Orlando Sentinel ○ http://interactive.orlandosentinel.com/elections/2016/presidential-primary/results/dem.html ○ Note: We were not able to access the underlying geographic data for these precincts. ● US Census Redistricting Data Program <ul style="list-style-type: none"> ○ Accessed: 11/10/21, Source: US Census Bureau ○ https://www.census.gov/geo/partnerships/pvs/partnership19v2/st12_fl.html ● Florida Precinct Shapefiles

- Accessed: 01/15/21, Source: Florida Department of State
 - Note: This was retrieved through a public records request.
- Collier County Precincts File
 - Accessed: 01/15/2021, Source: Collier County Supervisor of Elections
 - <https://www.colliervotes.com/Voting-System-Maps-Stats/Precinct-Map-Voting-Boundaries>
 - Note: From the above link, click on "View additional maps" and then download the map on the next screen as a KML
- Flagler County Precincts Shapefile
 - Accessed: 1/14/2021, Source: Flagler County Supervisor of Elections
 - <https://www.flaglerelections.com/For-Voters/District-Precinct-Maps>
 - Note: Click "Current GIS Shape File" which should link to the "2018_SHP" zip file
- Hillsborough County Precincts Shapefile
 - Accessed: 1/14/2021, Source: Hillsborough County Supervisor of Elections
 - <https://www.votehillsborough.org/RESEARCH-DATA/Maps-Districts>
 - Note: Scroll to the bottom of the page and click "Shapefiles - Hillsborough County Precinct Map" and on the next page, download "2017ShapeFiles.zip"
- Lee County Precincts File
 - Accessed: 1/14/2021, Source: Lee County Supervisor of Elections
 - <https://www.lee.vote/District-Maps>
 - Note: To download, click the square looking button to "View Larger Map" and then download as KML
- Leon County Precincts Shapefile
 - Accessed: 01/15/2021, Source: Tallahassee - Leon County GIS GeoData Hub
 - <https://geodata-tlcfgis.opendata.arcgis.com/datasets/election-precincts-leon-county>
- Martin County Precinct Shapefile
 - Accessed: 11/10/21, Source: Martin County GIS
 - <https://www.google.com/maps/d/viewer?mid=1p5VDI998Wl1433PfpkNgyKzmzwSXgmb&ll=27.110288969661138%2C-80.4541965&z=10>
- Miami-Dade County Precincts Shapefile
 - Accessed: 01/15/2021, Source: Miami-Dade County Open Data Hub
 - <https://gis-mdc.opendata.arcgis.com/datasets/precinct-1>
- Okaloosa County Precincts Shapefile
 - Accessed: 01/15/2021, Source: Okaloosa County Commission
 - http://www.co.okaloosa.fl.us/gis_data
 - Note: Downloaded "Voting.zip"

- Palm Beach County Precincts Shapefile
 - Accessed: 01/15/2021, Source: Palm Beach County Supervisor of Elections
 - <https://www.pbcelections.org/Records-Data/Voting-District-Maps>
 - Note: Click on "Precinct Shapefiles"
- Pasco County Precincts Shapefile
 - Accessed: 01/15/2021, Source: Pasco County, GIS Department
 - <https://www.pascocountyfl.net/342/GIS-Data-Shape-Files>
- Pinellas County Precinct Shapefile
 - Accessed: 11/10/21, Source: Pinellas County GIS
 - <https://new-pinellas-egis.opendata.arcgis.com/datasets/voting-precincts/explore?location=27.964591%2C-82.570492%2C10.08>
- Putnam County Precinct Shapefile
 - Accessed: 11/10/21, Source: Putnam County GIS
 - https://pc-open-data-site-pcgis.hub.arcgis.com/datasets/8e7aa38f8b29431c99e0e716831e0e3e_0/explore
- Marion County Precinct Map
 - Accessed: 11/10/21, Source: Marion County Supervisor of Elections
 - <https://www.votemarion.gov/Portals/Marion/Documents/DPT-ElectionSvc/Maps/Marion%20County%20Voting%20Precincts.pdf?ver=KGrM-e8c0jXjF2aAU9RDJg%3d%3d>
- Highlands County Precinct Map
 - Accessed: 11/10/21, Source: Marion County Supervisor of Elections
 - https://www.votehighlands.com/Portals/Highlands/Documents/2018%20Precincts%20Map_092818.pdf?ver=96S_lh1T3W4NnxqbXLollg%3d%3d
- Lake County Precinct Map
 - Accessed: 11/10/21, Source: Lake County
 - https://cdn.lakecountyfl.gov/media/utuhwcrj/votingprecincts_34x44-ada.pdf
- Osceola County Precinct Map
 - Accessed: 11/10/21, Source: Osceola County Supervisor of Elections
 - https://www.voteosceola.com/Portals/Osceola/Documents/maps/Countywide_Precincts.pdf
- Volusia County Precinct Map
 - Accessed: 11/10/21, Source: Osceola County Supervisor of Elections
 - <https://www.volusiaelections.gov/core/fileparse.php/159/urlt/FEB-2021-42x42-FullCountyPrecinctMap.pdf>
- Columbia County Precinct Map
 - Accessed: 11/10/21, Source: Columbia County Supervisor of Elections

	<ul style="list-style-type: none"> ○ https://www.votecolumbia.com/Portals/Columbia/Documents/SOE_Prec2019.pdf?ver=2020-06-29-135723-083 ● Duval County Precinct Map <ul style="list-style-type: none"> ○ Accessed: 11/10/21, Source: Duval County Supervisor of Elections ○ https://www.duval elections.com/Portals/Duval/Documents/Maps/City%20Council.pdf <p><u>Inaccessible files:</u></p> <ul style="list-style-type: none"> ● Hamilton County Precinct Shapefile <ul style="list-style-type: none"> ○ VEST mentions they used a geocoded voter registration file to create this file, which we did not replicate. ● DeSoto, Gulf, Sumter, and Polk Counties Precinct Shapefiles or Map <ul style="list-style-type: none"> ○ We searched for precinct shapefiles or maps for these counties but were unable to find anything.
<p>Processing steps available?</p> <p>Yes</p>	<p><u>Description of processing steps:</u></p> <ul style="list-style-type: none"> ● VEST's documentation, which we accessed on 11/08/21 and can be accessed at the link above is pasted below: <ul style="list-style-type: none"> ○ Election results from the Florida Department of State (https://dos.myflorida.com/elections/data-statistics/elections-data/precinct-level-election-results/) ○ Precinct results from several sources. <ul style="list-style-type: none"> ■ Alachua, Bay, Bradford, Brevard, Calhoun, Citrus, Clay, Dixie, Escambia, Hardee, Hendry, Hernando, Indian River, Lafayette and Sarasota come from the Department of State. ■ Broward, Gadsden, Gilchrist, Manatee, Nassau, Santa Rosa, St. Johns, St. Lucie, and Union are from the Orlando Sentinel's precinct map for the 2016 presidential primary (http://interactive.orlandosentinel.com/elections/2016/presidential-primary/results/dem.html). ■ Baker, Charlotte, Franklin, Glades, Holmes, Jackson, Jefferson, Levy, Liberty, Madison, Monroe, Okeechobee, Orange, Seminole, Suwannee, Taylor, Wakulla, Walton, and Washinton come from the U.S. Census Bureau's 2020 Redistricting Data Program. ■ Collier, Columbia, DeSoto, Duval, Flagler, Gulf, Highlands, Hillsborough, Lake, Lee, Leon, Marion, Martin, Miami-Dade, Okaloosa, Osceola, Palm Beach, Pasco, Pinellas, Polk, Putnam, Sumter, and Volusia come from the counties.

	<ul style="list-style-type: none"> ■ Hamilton was drawn based on a geocoded voter registration file. ■ Edits were made to Brevard, Charlotte, Escambia, Franklin, Indian River, Jefferson, Lafayette, Lake, and Lee, Miami-Dade, and St. Johns based on the voter registration file. <ul style="list-style-type: none"> ○ Lake 108, Osceola 999, Palm Beach 8002, Seminole 900s, and Monroe's "Cumulative" precinct (the latter appears on the county's detailed results but not the DOS's precinct results file) don't have geography. Brevard 999, Broward Z073, Collier 450, Flagler 999, Hillborough 999, Leon 9000, Miami-Dade 100, and Pinellas 512 do have geography, but they are just the county election offices. Both groups represent some type of vote not assigned to a particular geography, like UOCAVA results, so these were distributed across the county by candidate proportional to the vote each precinct recorded. <p><u>Information not in their processing steps:</u></p> <ul style="list-style-type: none"> ● Describe the steps that were done to replicate the file that were not explicitly included in their processing steps ● If there are no processing steps, write No available processing steps
<p>Able to replicate joining election data and shapefiles?</p> <p>No</p>	<p>No, given the documentation they provided we would not be able to follow their steps to complete the join because we were not able to obtain shapefiles in the following counties:</p> <ul style="list-style-type: none"> ● Broward, Gadsden, Gilchrist, Manatee, Nassau, Santa Rosa, St. Johns, St. Lucie, and Union. VEST used the Orlando Sentinel's map as a starting point for these counties, but we did not attempt to geocode that map. ● VEST used a geocoded voter registration file to create the Hamilton County precinct shapefile which we did not locate. ● VEST used county sources for DeSoto, Gulf, Sumter, and Polk counties. For these counties, we were unable to find either precinct maps or shapefiles. ● For Marion, Highlands, Lake, Osceola, Volusia, Columbia, and Duval Counties, we were able to find precincts maps but not shapefiles. <p>However, in the counties where we did have precinct shapefiles, available we were able to join 4167 precincts, with 134 precinct shapefiles and 44 precinct election results unjoined. A handful of trivial precinct name changes and mergers were required for 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 election results at three different levels: <ul style="list-style-type: none"> ○ Statewide candidate vote totals ○ Countywide candidate vote totals ○ Precinct-level candidate votes ● At the statewide total level, the election results did not match VEST's. VEST's file has 15 more G20PRERTRU votes, 9 more G20PREDBID votes, and 1 more G20PRELJOR vote. VEST's totals matched those of FL's election summary report (https://results.elections.myflorida.com/DetailRpt.Asp?ELECTIONDATE=11/3/2020&RACE=PRE) in every race except for G20PREOWRI, as the summary report does not contain every write-in vote. ● At the countywide total level, the election results did not match VEST's. VEST's file has 10 more G20PRERTRU votes, 5 more G20PREDBID votes, and 1 more G20PRELJOR vote in Monroe County and 5 more G20PRERTRU votes and 4 more G20PREDBID votes in Seminole County. VEST's totals matched those of FL's election summary report (https://results.elections.myflorida.com/DetailRpt.Asp?ELECTIONDATE=11/3/2020&RACE=PRE) in every race except for G20PREOWRI, as the summary report does not contain every write-in vote. ● At the precinct-level, the election results matched VEST's in 5968 of 5990 precincts. The 22 precincts with differences are all in Monroe and Seminole County and contain a maximum difference of 1 vote.

Geographies: No

- We were not able to obtain shapefiles, and thus not able to validate precinct geometries, in the following counties:
 - Broward, Gadsden, Gilchrist, Manatee, Nassau, Santa Rosa, St. Johns, St. Lucie, and Union. VEST used the Orlando Sentinel's map as a starting point for these counties, but we did not attempt to geocode that map.
 - VEST used a geocoded voter registration file to create the Hamilton County precinct shapefile which we did not locate.
 - VEST used county sources for DeSoto, Gulf, Sumter, and Polk counties. For these counties, we were unable to find either precinct maps or shapefiles.
 - For Marion, Highlands, Lake, Osceola, Volusia, Columbia, and Duval Counties, we were able to find precincts maps but not shapefiles.
- In FL's other counties, where we were able to locate precinct shapefiles, were able to validate 4227 precincts (out of 6010 total precincts in VEST's file):
 - 1173 precincts w/ a difference of 0 km²
 - 2796 precincts w/ a difference between 0 and .1 km²
 - 38 precincts w/ a difference between .1 and .5 km²
 - 26 precincts w/ a difference between .5 and 1 km²
 - 33 precincts w/ a difference between 1 and 2 km²
 - 40 precincts w/ a difference between 2 and 5 km²
 - 77 precincts w/ a difference greater than 5 km²
- Due to the variety of sources for precinct shapefiles, the number of precincts with a difference between 0 and .1 km² is not surprising.
- VEST also notes that in their documentation that "Edits were made to Brevard, Charlotte, Escambia, Franklin, Indian River, Jefferson, Lafayette, Lake, and Lee, Miami-Dade, and St. Johns based on the voter registration file."
- A list of all precincts with area differences is available in the notebook.