

Pennsylvania Election Data Guide

Last updated: October 21, 2026

Pennsylvania publishes statewide election data through the [Department of State \(DOS\)](#), which administers elections with the state's 67 county election offices and maintains the Statewide Uniform Registry of Electors (SURE), the voter registration database from which most of the state's data products are extracted. The state's core products are comma-delimited precinct-level returns and precinct-level registration counts, both reaching back to 1992. Since 2020, the DOS has also published a record-level file of every mail ballot application, one file per election. The statewide precinct files cover only federal, statewide, and General Assembly contests, carry no vote mode breakdown, and ship without column headers; county and municipal contests appear only in county publications. Philadelphia and Allegheny, the state's two largest counties, publish precinct-level results for all contests with vote mode splits, and have their own sections below.

Two access constraints are worth noting for the statewide data: The [election returns site](#) and the [DOS voter services site](#) sit behind a security service that blocks automated download tools, so their exports usually require a web browser, unlike the main pa.gov file host, which can be scraped. The voter file is available at \$20 per statewide extract. The DOS documents its data products, layouts, and known caveats in its [Election Data Handbook](#).

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Statewide

Election Results Report Center

Description

Official results for every statewide primary, general, municipal, and special election from the 2000 general primary to the present, on the state's election returns site. The site displays results by office, county, and district, and its Report Center generates downloadable files for any election at three levels of aggregation: county, district, or statewide. The same site provides live returns on election night, and RSS feeds serve county-level totals for the current election. Results are for federal, statewide, and General Assembly contests plus statewide ballot questions; county and municipal offices are not included.

Dedicated webpage

Results site: <https://www.electionreturns.pa.gov/>

Report Center (downloads): <https://www.electionreturns.pa.gov/ReportCenter/Reports>

RSS feeds for the current election:

<https://www.electionreturns.pa.gov/ElectionFeed/ElectionFeed>

Variables

The county report as of September 4, 2026 (CSV, Excel, and text exports carry the same fields):

- + Election Name
- + County Name
- + Office Name
- + District Name [the contest's district; "Statewide" for statewide offices]
- + Party Name
- + Candidate Name
- + Votes
- + Yes Votes [ballot questions only]
- + No Votes [ballot questions only]
- + Election Day Votes
- + Election Day Yes Votes
- + Election Day No Votes
- + Mail Votes
- + Mail Yes Votes
- + Mail No Votes
- + Provisional Votes
- + Provisional Yes Votes
- + Provisional No Votes

Notes for use

- + The site sits behind a security service that blocks automated download tools, so exports have to be generated in a web browser. Downloads are produced by an interactive form, not by constructable URLs.
- + The vote mode columns (Election Day, Mail, Provisional) are populated for elections from 2020 on (when no-excuse mail voting began); for earlier elections, they are blank and only Votes is filled.
- + Vote totals are formatted with thousands separators ("19,842"), so parse them as quoted strings, not numbers.
- + Ballot questions appear as rows with empty candidate fields and their counts in the Yes/No columns.

- + Election night figures on this site are unofficial and remain so for several weeks until certification; the Report Center serves whatever the site currently holds.

Precinct-Level Returns and Registration

Description

The state's bulk data: for each statewide election, a comma-delimited precinct-level returns file and a companion precinct-level voter registration file, each with a ReadMe documenting the layout. Coverage runs from 1992 to the present with a few gaps: no returns file exists for the 1992 primary, either 2005 election, the 2009 municipal election, or either 2013 election, and no registration file exists for the 1992 general. Returns cover federal, statewide, and General Assembly contests only. The registration file gives registered-voter counts per precinct for six party slots [as of 2024: Democratic, Republican, Green, Libertarian, Other, and an unused sixth slot]. Both files carry congressional, state senate, and state house district codes plus municipality and Census identifiers (MCD, FIPS, VTD), so they double as a precinct-to-district crosswalk.

Dedicated webpage

Index (sort and filter to find an election):

<https://www.pa.gov/agencies/dos/resources/voting-and-elections-resources/voting-and-election-statistics/election-data.html>

Example (2024 general returns): https://www.pa.gov/content/dam/copapwp-pagov/en/dos/resources/voting-and-elections/bulk-data/2024-general-election/er/erstat_2024_g_268768_20250129.txt

Example (its ReadMe): https://www.pa.gov/content/dam/copapwp-pagov/en/dos/resources/voting-and-elections/bulk-data/2024-general-election/er/erstat_2024_g_readme.txt

Variables

Election returns file

The fields of the 2024 general file, in order, as documented in its ReadMe (the files themselves have no header row):

- + Election Year

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- + Election Type [P Primary, G General, M Municipal, S Special]
- + County Code [01 Adams through 67 York, alphabetical; table in the ReadMe]
- + Precinct Code
- + Candidate Office Rank
- + Candidate District
- + Candidate Party Rank
- + Candidate Ballot Position
- + Candidate Office Code [e.g. USP President, USS U.S. Senator, USC Representative in Congress, STS state senator, STH state representative, ATT Attorney General, AUD Auditor General, TRE State Treasurer; table in the ReadMe]
- + Candidate Party Code
- + Candidate Number
- + Candidate Last Name
- + Candidate First Name
- + Candidate Middle Name
- + Candidate Suffix
- + Vote Total
- + Yes Vote Total [ballot questions]
- + No Vote Total [ballot questions]
- + U.S. Congressional District
- + State Senatorial District
- + State House District
- + Municipality Type Code [2 City, 4 Township, 5 Town, 6 Borough]
- + Municipality Name
- + Municipality Breakdown Code 1 [D District, W Ward, P Precinct, X Other]
- + Municipality Breakdown Name 1
- + Municipality Breakdown Code 2
- + Municipality Breakdown Name 2
- + Bi-County Code [the other county's code where a municipality crosses county lines]
- + MCD Code [Minor Civil Division code]
- + FIPS Code
- + VTD Code [voting tabulation district code]

- + BallotQuestion [question text]
- + RecordType
- + Previous Precinct Code
- + Previous U.S. Congressional District
- + Previous State Senatorial District
- + Previous State House District

Voter registration file

The fields of the 2024 general file, in order, per its ReadMe:

- + Election Year
- + Election Type Code
- + County Code
- + Precinct Code
- + Party rank, party abbreviation, and registered voters for party slots 1 through 6, as three fields per slot [18 fields; slot-to-party assignments are listed in each ReadMe]
- + U.S. Congressional District
- + State Senatorial District
- + State House District
- + Municipality Type Code
- + Municipality Name
- + Municipality Breakdown Code 1
- + Municipality Breakdown Name 1
- + Municipality Breakdown Code 2
- + Municipality Breakdown Name 2
- + Bi-County Code
- + MCD Code [Minor Civil Division code]
- + FIPS Code
- + VTD Code [voting tabulation district code]
- + Previous Precinct Code
- + Previous U.S. Congressional District
- + Previous State Senatorial District
- + Previous State House District

Notes for use

- + The layout varies by era: the 2024 general returns file has 37 fields, the 1992 general file 33. Read each election's ReadMe rather than reusing one year's parser.
- + There is no vote mode breakdown; only one total per candidate per precinct is provided. Mode splits exist only in the Report Center's county-level exports and in county publications.
- + File names are irregular across the archive, including misspellings ("ElectionRetuns_2001", "PrecinctRetuns"), so URLs cannot be constructed reliably; start from the index page.
- + The returns and registration files are pulled from different sources. Registration includes precinct splits for congressional and school districts, so a precinct's registered voters can be spread over multiple rows that must be combined before calculating turnout.
- + Municipal-year files carry statewide judicial contests; the office codes differ from even-year files and are listed in each ReadMe.

Post-Election Data Summaries

Description

Excel summary workbooks that the DOS publishes for each election once all counties have finished entering data into SURE, hosted on the same index page as the bulk files. Three products exist. The Voter Registration and Vote History Summary (2024 general to present) counts voters with vote history by county, vote method [absentee, at polls, mail-in, provisional], congressional, senate, and legislative district, party, and age, alongside certified registration. The Mail Ballot Data Summary (2024 general to present) counts mail ballots by county, age, party, and district, including canceled-ballot statistics. The Certified Provisional Ballots workbook and its Demographic Supplemental (2025 municipal to present) include provisional ballots counted, partially counted, and rejected, with the reasons provisional ballots were cast and rejected, by party and age, statewide and by county.

Dedicated webpage

Index: <https://www.pa.gov/agencies/dos/resources/voting-and-elections-resources/voting-and-election-statistics/election-data.html>

Example (2026 primary provisional ballots): <https://www.pa.gov/content/dam/copapwp-pagov/en/dos/resources/voting-and-elections/bulk-data/2026-general-primary/certified-provisional-ballots-2026-primary.xlsx>

Variables

The DOS publishes three post-election summary workbooks. Sheets and column headers verified on the 2024 general and 2026 primary files. Every county table runs 68 rows: 67 counties plus a TOTAL row. Each workbook ends with a Disclaimers sheet of free-text notes.

Voter registration and vote history summary

Eight sheets. The four single-geography sheets carry the same three measures keyed to their geography:

- + By county [key column: County]; By congressional district [Congressional District]; By senate district [Senate District]; By state legislative district [Legislative District]
- + Vote History
- + Registered voters
- + Percent vote history/Registered voters

The remaining sheets:

- + By vote method: County; Absentee; At Polls; Mail-in; Provisional
- + By county & party [13 columns]: County; then Vote History, Voter Registration, and Percent vote history/Registered voters for each of Democratic, Republican, Libertarian, Other [e.g. Democratic Vote History, Democratic Voter Registration, Democratic Percent vote history/Registered voters]
- + By county & age [22 columns]: County; then Vote History, Voter Registration, and Percent Vote History/Registered Voters for each of the age brackets 18 to 24, 25 to 34, 35 to 44, 45 to 54, 55 to 64, 65 to 74, 75+ [e.g. 18 to 24 Vote History, 18 to 24 Voter Registration, 18 to 24 Percent Vote History/Registered Voters]

Mail ballot data summary

Eleven data sheets. Eight report the same nine-measure block, keyed to a geography or demographic:

- + Mail ballot by county [key: County]; Statewide by age [Age group]; Statewide by party [Party]; By county & age [County, Age group]; By county & party [County, Party]; By congressional district [Congressional]; By senate district [Senate]; By legislative district [Legislative]
- + Total cancelled ballots
- + Total recorded ballots
- + Total returned ballots
- + Total ballots
- + % Cancelled of total ballots
- + % Returned of total ballots
- + % Recorded of total ballots
- + % Cancelled of total returned
- + % Recorded of total returned

Mail ballot by county and By county & party add a "Ballots not returned" column [spelled "ballots not returned" on the By county & party sheet].

The three cancellation-reason sheets share:

- + CANC - NO SECRECY ENVELOPE
- + CANC - NO SIGNATURE
- + CANC - RETURNED AFTER DEADLINE
- + CANC - NO ID
- + CANC - OTHER
- + CANC - VOTE CHALLENGED
- + Total

Certified provisional ballots

Three totals sheets share a count block; six reason/rejection sheets share their own.

Totals sheets—Certified provisional totals [key: County], Totals by party [Party], Totals by age [Age Group]:

- + Counted
- + Partially Counted

- + Rejected
- + Total
- + % Counted
- + % Partially Counted
- + % Rejected
- + Vote History [Certified provisional totals sheet only]

Provisional-reason sheets—Certified provisional reason [County], Provisional reason by party [Party], Provisional reason by age [Age Group]—carry each reason as a count and again as a percent:

- + Court order or extension
- + Mail-in or absentee not returned
- + Name not on list
- + ID not supplied
- + Eligibility Challenged [sic; the matching percent column is spelled "% Eligibility Challenged"]
- + Not D/R in Primary [primary files only]
- + Sum of Provisional Reasons
- + Then % of each reason above

Rejection-reason sheets—Certified rejection reason [County], Rejection reason by party [Party], Rejection reason by age [Age Group]—likewise as count then percent:

- + Duplicate Provisional Ballot Cast
- + Incomplete provisional ballot affidavit envelope
- + Incorrect political party
- + Not Registered
- + Registered in a different county
- + Registered in different election district
- + Signatures are not genuine
- + Voted by conventional alternative or absentee/mail-in
- + Sum of Rejection Reasons
- + Total Provisional Ballots Cast
- + Then % of each reason above

Certified provisional ballots—demographic supplemental

Six sheets, each breaking the main workbook's measures out by two dimensions and county, counts only (no percent columns):

- + Totals by party & county: County; Party; Counted; Partially Counted; Rejected; Total; % Counted; % Partially Counted; % Rejected
- + Totals by age & county: County; Age Group; then the same count-and-percent block
- + Prov reasons by party & county: County; Party; then the six provisional-reason counts
- + Prov reasons by age & county: County; Age Group; then the six provisional-reason counts
- + Reject by party & county: County; Party; then the eight rejection-reason counts
- + Reject by age & county: County; Age Group; then the eight rejection-reason counts

Notes for use

- + Counties can record more than one reason a provisional ballot was cast or rejected, so reason-table totals can exceed the number of ballots in the totals table.
- + County tables run 68 rows: 67 counties plus a TOTAL row.
- + These are point-in-time estimates from SURE, not certified returns, and can disagree slightly with each other and with the registration statistics; the handbook's disclaimers explain the discrepancies.
- + The count-column header in the provisional-reason sheets misspell "Eligibility" as "Elligibility" while the percent header spells it correctly—match against both spellings rather than on position
- + The "Not D/R in Primary" reason appears only in primary-election files. Column casing is inconsistent across sheets ("Ballots not returned" vs "ballots not returned").

Mail Ballot Requests

Description

A record-level file of every mail ballot application for each election since the 2020 primary, published as one dataset per election on the state's open data portal. Each row is one application, de-identified but carrying date of birth, party, application type, the full application-to-return date chain, districts, and (from 2022 on) approximate location, disposition, and status codes. This is the public version of the Statewide Mail Ballot File below, frozen once county data entry for the election is complete.

Dedicated webpage

Portal search: [https://data.pa.gov/browse?q=mail ballot requests](https://data.pa.gov/browse?q=mail+ballot+requests)

Example (2024 general): <https://data.pa.gov/d/3q5t-ddp8>

Example (its CSV export): <https://data.pa.gov/api/views/3q5t-ddp8/rows.csv?accessType=DOWNLOAD>

Variables

data.pa.gov runs on Socrata (Tyler Technologies' open-data platform). Every column has two names: a human-readable label shown in the table, and a lowercase field name used by the export and the API. The brackets below give the field name wherever it differs from the label. The 2022–2026 datasets carry these fields:

- + County Name [countyname]
- + Party
- + Date of Birth [dateofbirth]
- + Mail Application Type [mailapplicationtype; codes such as MAILIN, OLMAILV, CIV, M Military, F Federal voter, PER and PMI permanent-list absentee and mail-in are defined in the Election Data Handbook]
- + Application Request Date [appissuedate]
- + Application Approved Date [appreturndate]
- + Ballot Mailed Date [ballotsentdate]
- + Ballot Returned Date [ballotreturndate]
- + State House District [legislative]
- + State Senate District [senate]

- + Congressional District [congressional]
- + Latitude
- + Longitude
- + Perm Indicator [permanent mail ballot list, True/False]
- + Ballot Application Disposition
- + Ballot Application Disposition reason [disposition_reason]
- + ID verification status [id_verification_status]
- + Ballot status [ballot_status]
- + Ballot status reason [ballot_status_reason]
- + Georeferenced Latitude & Longitude
- + File Identification [file_identification; fileid in the 2026 dataset]

Notes for use

- + The 2020 and 2021 datasets carry only the first eleven fields, ending at Congressional District.
- + Display labels changed between years: in the 2020–2021 datasets the field appissuedate is labeled "Application Approved Date", which the later datasets use for appreturndate. Join on field names, not labels, when combining years.
- + Dates of birth of confidential voters (chiefly domestic violence survivors) display as 1/1/1800.
- + Each dataset is a snapshot frozen weeks after the election (the freeze date is in the dataset description) and excludes applications declined as duplicates.

Statewide Mail Ballot File

Description

The person-level version of the mail ballot data, with voter names and mailing addresses, provided free by request. During election periods, the DOS extracts it from SURE once per day, from roughly the start of mail voting through certification. Each row is one mail ballot transaction, so a voter with a canceled and reissued ballot appears more than once. A county-level aggregate, the Daily Mail Ballot Report, is posted publicly on the same daily cycle. This file is released only to registered Pennsylvania voters.

Dedicated webpage

Request webform: <https://paebrprod.powerappsportals.us/EBR/DOS/mail-in-voter-file-request/> (also available as a paper form emailed to RA-STBEST@pa.gov, linked from the [statistics page](#))

Daily Mail Ballot Report, during election periods:

<https://www.pa.gov/agencies/vote/elections/elections-data.html>

Variables

The file is pipe-delimited—fields are separated by the vertical-bar character “|” rather than commas. Per the Election Data Handbook, it contains:

- + CountyID [four-digit county identifier, assigned sequentially from 2290]
- + CountyName
- + IDNumber [SURE voter ID]
- + Party [D, R, LN Libertarian, GR Green, other codes for minor parties and unaffiliated]
- + FirstName
- + MiddleName
- + LastName
- + Suffix
- + Addr1 [ballot mailing address, not necessarily registration address]
- + Addr2
- + CSZ [mailing city, state, zip]
- + Country
- + DateofBirth [month and year only, MM/YYYY]
- + Mail Application Type
- + PrecinctCode
- + PrecinctDesc
- + Application Request Date
- + Application Approved Date
- + Ballot Mailed Date
- + Ballot Returned Date
- + State House District
- + State Senate District

- + Congressional District
- + Perm Indicator
- + Ballot Application Disposition [Approved/Declined]
- + Ballot Application Disposition Reason
- + ID Verification Status
- + Ballot Status
- + Ballot Status Reason

Notes for use

- + Access requires the request form; the layout above is from the Department's handbook, as the file itself is not posted publicly.
- + Counties record transactions in SURE on different schedules, some in large batches, so day-over-day changes can be lumpy, and no daily pull is final, including Election Day's.
- + An application marked not-verified stays marked that way in SURE even after the voter later cures their ID.
- + Protected voters are excluded here, and in the Full Voter Export, so counts will not match summary files exactly.
- + The Daily Mail Ballot Report spreadsheet has three tabs by county: absentee ballots, mail-in ballots, and total ballots. It is only posted while an election is underway.

Voter Registration Statistics

Description

Weekly registration counts, updated every Monday, as Excel workbooks by county, congressional district, state senate district, and state house district, each with week-by-week sheets covering registration by party, party switches, registration by age group for all voters and for Democrats, Republicans, and Libertarians, and active versus inactive status. The party-to-party and change-to-other sheets date back to December 2008. A companion PDF reports automatic voter registration counts by party. An archive on the same page holds the certified pre-election registration statistics for every election from November 1998 to the present as PDFs, and the DOS publishes an annual report, The Administration of Voter Registration in Pennsylvania, with PDFs back to 2013. The

statistics page also provides a presidential election turnout table (registration, highest vote, and voting-age-population turnout) reaching back decades.

Dedicated webpage

Statistics page (weekly files, archive, and turnout table):

<https://www.pa.gov/agencies/dos/resources/voting-and-elections-resources/voting-and-election-statistics.html>

Example (weekly county workbook): <https://www.pa.gov/content/dam/copapwp-pagov/en/dos/resources/voting-and-elections/voting-and-election-statistics/currentvotestats.xlsx>

Annual reports: <https://www.pa.gov/agencies/dos/resources/voting-and-elections-resources/election-reports.html>

Variables

Sheets and columns in the county workbook, verified on the file dated September 7, 2026 (its "Information as of" cell); district workbooks hold the same sheets. Weekly sheets are point-in-time, not cumulative.

Registration sheet

- + CountyName
- + CountyID
- + Dem
- + Rep
- + No Aff
- + Other
- + Total Count of All Voters

Party-switch sheets

Party-to-Party(2026) [key: COUNTY]. Each period group splits by destination party and then origin party. The weekly range updates each week, and the Yearly Total covers the current year to date:

- + Current weekly range, To Democratic: from R
- + Current weekly range, To Democratic: from OTH

- + Current weekly range, To Republican: from D
- + Current weekly range, To Republican: from OTH
- + Yearly Total, To Democratic: from R
- + Yearly Total, To Democratic: from OTH
- + Yearly Total, To Republican: from D
- + Yearly Total, To Republican: from OTH

Party-to-Party (past) [key: COUNTY]. Each bullet is one period group, with destination and origin columns inside it:

- + Dec 2008 to Dec 2012: To Democratic (R, Oth); To Republican (D, Oth)
- + Yearly Total 2013: To Democratic (R, LN, Oth); To Republican (D, LN, Oth)
- + From Mar 4 2013: To Libertarian (R, D, Oth)
- + Yearly Total 2014: To Democratic (R, LN, Oth); To Republican (D, LN, Oth); To Libertarian (R, D, Oth)
- + Yearly Total 2015 through Yearly Total 2025, one group per year: To Democratic (R, Oth); To Republican (D, Oth)
- + Cumulative Total 2008 - 2025: To Democratic (R, LN, Oth); To Republican (D, LN, Oth); To Libertarian (R, D, Oth)

Change-to-Other sheets

Change to Other (2026) [key: COUNTY]. The weekly range updates each week, and the Yearly Total covers the current year to date

- + Current weekly range: Democratic to Other
- + Current weekly range: Republican to Other
- + Yearly Total: Democratic to Other
- + Yearly Total: Republican to Other
- +

Change to Other (past) [key: COUNTY]:

- + Dec 2008 to Dec 2012: Democratic to Other; Republican to Other
- + Yearly Total 2013: Democratic to Other; Republican to Other
- + From 3/4/2013: Libertarian to Other
- + Yearly Total 2014: Democratic to Other; Republican to Other; Libertarian to Other
- + Yearly Total 2015 through Yearly Total 2025, one group per year: Democratic to Other; Republican to Other

- + Cumulative Total Dec 2008 - Dec 2025: Democratic to Other; Republican to Other; Libertarian to Other

Age sheets

The four age sheets carry one count column per bracket:

All by Age:

- + County;
- + 18 to 24
- + 25 to 34
- + 35 to 44
- + 45 to 54
- + 55 to 64
- + 65 to 74
- + 75+

Dem by Age:

- + County; Party; then the same seven age brackets

Rep by Age:

- + County; Party; then the same seven age brackets

Lib by Age:

- + County; Party; then the same seven age brackets

Active-Inactive sheet

- + County;
- + Active and Inactive columns for each of Democratic, Republican, Other

Notes for use

- + Weekly sheets are point-in-time, not cumulative; compare weeks by subtracting.
- + All counts except the Active-Inactive sheet include both active and inactive voters, and both can vote.

- + No Affiliation counts only voters with exactly that designation; blanks, "none", and similar fall under Other. Party-change sheets exclude new registrants.
- + The current-week files are overwritten in place at stable URLs; there is no machine-readable archive of past weeks, and the per-election archive is PDF only.

Full Voter Export

Description

The statewide voter file: every active and inactive registered voter in all 67 counties, with registration details, districts, and vote history for the last 40 elections per county. It can be purchased for \$20 through the DOS voter services site and refreshed weekly. The delivery is a set of zip files: one voter export per county; per-county election maps that assign each county's elections to the Election 1 through Election 40 columns; per-county zone files mapping district and precinct codes to names; a political party code file; and a ReadMe with the layouts.

Dedicated webpage

Purchase page:

<https://www.pavoterservices.pa.gov/Pages/PurchasePAFullVoterExport.aspx>

Variables

Fields 1–154 per the Department's ReadMe, as reproduced in the Election Data Handbook:

- + ID Number [SURE voter ID: nine digits, hyphen, two-digit county code; the nine digits follow the voter between counties]
- + Title
- + Last Name
- + First Name
- + Middle Name
- + Suffix
- + Gender [F, M, U]
- + DOB
- + Registration Date [placeholder dates such as 01-01-1900 appear on older records]

- + Voter Status [A Active, I Inactive]
- + Status Change Date
- + Party Code
- + House Number
- + House Number Suffix
- + Street Name
- + Apartment Number
- + Address Line 2
- + City
- + State
- + Zip
- + Mail Address 1
- + Mail Address 2
- + Mail City
- + Mail State
- + Mail Zip
- + Last Vote Date
- + Precinct Code
- + Precinct Split ID
- + Date Last Changed
- + Custom Data 1 [legacy system ID]
- + Districts 1–40 [40 fields; decode with the zone files]
- + Election 1 Vote Method through Election 40 Vote Method, alternating with Election 1 Party through Election 40 Party [80 fields; vote method is AP At Polls, AB Absentee, MB Mail-In Ballot, P Provisional; decode elections with the county's election map]
- + Home Phone
- + County
- + Mail Country
- + Registration Method [D motor voter, P paper, E electronic]

Notes for use

- + The layout above is from the Department's own documentation; the export was not purchased for this guide.

- + The 40 elections that appear differ by county because of special elections. Always join through the county's election map file.
- + Canceled and protected voters are absent, so the file cannot reconstruct past electorates or replicate election results; vote-history counts shrink as registrations are canceled or moved.
- + The file refreshes weekly; the purchase page states the current data date.

Voting Systems

Description

Documentation of the voting equipment in use: the Secretary's certification report for each voting system approved in Pennsylvania (Dominion Democracy Suite, ES&S EVS, Hart Verity, Clear Ballot ClearVote, and Unisyn OpenElect versions), and an interactive map of which system each county deploys.

Dedicated webpage

<https://www.pa.gov/agencies/dos/resources/voting-and-elections-resources/voting-systems.html>

Notes for use

- + The by-county assignments live in an ArcGIS web map, not a downloadable table(the link may route you to a sign-in screen). Certification reports are PDFs.
- + The same page provides this information for epoll books as well.

Philadelphia County

Philadelphia's elections are run by the [City Commissioners](#), whose site is the source for archived results and reports; the machine-readable versions of most datasets live on [OpenDataPhilly](#). The city reports results by ward and division, its precinct unit, written as a four-digit ward-plus-division code ("0101") or "01-01". The county publishes no mail ballot request or return file; person-level mail data for Philadelphia comes from the statewide mail ballot files above, and mail-vote counts appear as vote mode columns in the results datasets below. All Philadelphia hosts serve automated download tools.

Election Results by Division

Description

Official results for 31 elections, from the 2013 primary through the 2024 general, including every primary, general, and special, in one long-format table at the division level with per-mode vote splits. One row is one candidate's votes in one division for one contest, including local and judicial contests the state files omit. This is the cleanest machine-readable source for Philadelphia results.

Dedicated webpage

Index: <https://opendataphilly.org/datasets/election-results/>

API (ArcGIS FeatureServer, paged):

https://services.arcgis.com/fLeGjb7u4uXqeF9q/arcgis/rest/services/Election_Results/FeatureServer/0/query?where=1%3D1&outFields=*&f=json

Bulk CSV of the whole table:

https://hub.arcgis.com/api/v3/datasets/fe3cb6babdb94583b16e3832070bf457_0/downloads/data?format=csv&spatialRefId=3857&where=1%3D1

Variables

- + election_name
- + election_date
- + precinct_code [four-digit ward plus division, "0101"]
- + precinct_name ["01-01"]
- + ward
- + division
- + recount_status
- + contest_name
- + contest_type
- + candidate_name
- + candidate_party
- + total_votes
- + election_day_votes
- + mail_votes

- + provisional_votes
- + absentee_votes
- + objectid

Notes for use

- + The mode columns changed meaning in 2020: elections from 2013 through 2019 populate absentee_votes and leave mail_votes null; 2020 on populate mail_votes and leave absentee_votes null.
- + The 2025 and 2026 elections had not been loaded as of September 4, 2026; use the county exports or archived files below for those.
- + The API returns at most 2,000 rows per request, so page through it; the bulk CSV is one long multi-hundred-megabyte download.

Archived Result Files

Description

The Commissioners' per-election download files, one or more per election from 2007 to the present, in a series of schema eras: wide ward-division CSVs for 2007–2013, heterogeneous per-election spreadsheets for 2013–2019, long-format division CSVs for 2018–2020, and two-sheet workbooks from 2020 on. Primaries ship separate files for committeeperson and election-board contests. The recent workbooks include registration and turnout per division, making them the registration source for 2020–2026.

Dedicated webpage

Index: <https://vote.phila.gov/resources-data/past-election-results/archived-data-sets/>

Example (2007 general, wide): https://vote.phila.gov/files/election-results/2007_General_WD.csv

Example (2018 general, long): https://vote.phila.gov/files/raw-data/2018_general.csv

Example (2023 general, workbook era):

https://vote.phila.gov/media/2023_General_Results.xlsx

Variables

Wide CSVs, 2007–2013

- + WARD
- + DIVISION
- + One column per candidate-office pairing ["DEBRA TODD - JUSTICE OF THE SUPREME COURT", including YES/NO columns for retention questions]

Long CSVs, 2018–2020

Seven columns whose names vary by file:

- + WARD
- + DIVISION
- + TYPE [2018; "VOTE TYPE" in 2019; TYPE again in 2020; values A absentee, M machine/election day, P provisional]
- + CATEGORY [the contest; "OFFICE" in 2020]
- + SELECTION [the candidate or answer; "CANDIDATE" in 2020]
- + PARTY [spelled out in 2019, abbreviated in 2018]
- + VOTE COUNT ["VOTES" in 2020]

Workbooks, 2020–2026

- + A By_Type sheet: one row per division and vote method [Election Day, Mail Votes, Provisional], with Public Count, Registration, and Turnout columns followed by one column per contest-candidate pairing; from 2026, registration and turnout also split by party [Dem/Rep/Non]
- + A Totals sheet with the same layout summed across methods

Notes for use

- + The 2013–2019 spreadsheets between the eras have layouts that vary file by file, some ward-level only despite the index's labeling; open each before parsing. Their layouts were not individually verified for this guide.
- + Within the long-CSV era every file differs slightly: the 2020 primary begins with a byte-order mark and renames three columns. Workbook-era headers embed line breaks inside cell text.

- + File names drift across years and say little about granularity; work from the index page.

Election Night Reporting and County Exports

Description

Philadelphia's election night reporting (ENR) application provides live and then official results for the current election, and a companion historical application serves the thirteen elections from the June 2020 primary through the November 2025 general. Both offer a County Export: a division-level CSV of every contest with vote mode columns. These exports are the machine-readable source for the 2025–2026 elections that have not yet reached the OpenDataPhilly table.

Dedicated webpage

Current election: <https://vote.phila.gov/results/>

Historical elections:

<https://phillyenrhistdataresults.azurewebsites.us/PreviousElections.aspx>

Variables

- + RaceName
- + PartyCode
- + CandidateName
- + PrecinctName [division, "01-01"]
- + CurrentDateTime [export timestamp]
- + VoteFor
- + CandidateVotes
- + CandidatePercentage
- + PrecinctsReporting
- + Election Day
- + Mail Votes
- + Provisional

Notes for use

- + The export is generated by submitting the export page's form, not by a fixed URL, so scripted downloads must replay the form post with its hidden fields.
- + Every value is wrapped in Excel-style "="..." quoting; strip it before parsing.
- + CandidatePercentage is the countywide percentage repeated on every division row, not a division-level figure.
- + In the historical app's exports, the vote mode columns are unreliable for some elections; in the 2024 general export they are empty. Use the OpenDataPhilly table for mode splits where it covers the election.

Registration and Turnout

Description

Registration and turnout for every election from a March 2015 special through the 2024 general, as ArcGIS tables at three levels: citywide, ward, and division. Each row is one geography in one election, with total votes cast and registered voters. This is the best division-level registration time series for 2015–2024; the 2020–2026 result workbooks above carry registration per division for later elections, and a PDF on the Commissioners' reports page tabulates citywide registration by party for every election from 1940 to the 2026 primary.

Dedicated webpage

Index: <https://opendataphilly.org/datasets/voter-turnout/>

Example (division-level CSV):

https://hub.arcgis.com/api/v3/datasets/218a797676f74ee694dc7a49e5360870_0/downloads/data?format=csv&spatialRefId=3857&where=1%3D1

Historical registration by party, 1940–2026:

https://vote.phila.gov/media/Historical_Registration_1940-2026P.pdf

Variables

Division layer (ward and city layers drop the division identifiers):

- + election_name
- + election_date

- + precinct_code
- + precinct_name
- + ward
- + division
- + total_votes
- + registered_voters_as_of [date of the registry used]
- + registered_voters
- + turnout
- + objectid

Notes for use

- + The turnout column is stored as an integer and truncates to 0 or 1; compute turnout as total_votes divided by registered_voters instead.
- + registered_voters_as_of does not always match the election date, so the denominator may be an earlier registry.
- + The 1940–2026 party registration series is PDF only.

Ward and Division Boundaries

Description

Current division and ward boundaries as ArcGIS layers (GeoJSON, shapefile, CSV), plus an archive of historic division shapefiles, one per boundary vintage, for 2003, 2005, 2008, 2009, 2010, 2011, 2012, 2013, 2016, and three 2018–2019 revisions, needed for any pre-2019 division-level analysis. A district crosswalk spreadsheet on the Commissioners' reports page maps each division to its congressional, state senate, state house, council, and Republican state committee districts.

Dedicated webpage

Divisions: <https://opendataphilly.org/datasets/political-ward-divisions/>

Wards: <https://opendataphilly.org/datasets/political-wards/>

Historic boundaries: <https://opendataphilly.org/datasets/historic-political-wards-divisions/> (files on GitHub, e.g., [2016-ward-divisions.zip](#))

District crosswalk: https://vote.phila.gov/files/departments-reports/Districts_2022.xlsx

Variables

Four source files, each with its own fields.

Division layer

- + objectid
- + short_div_num
- + division_num [four-digit ward plus division]
- + Shape__Area
- + Shape__Length

Ward layer

- + objectid
- + ward_num
- + Shape__Area
- + Shape__Length

Historic shapefiles

- + YEAR
- + WARD_DIVSN
- + WARD
- + DIVSN
- + AREA_SFT

District crosswalk

Verified in Districts_2022.xlsx (one sheet, 1,792 precinct rows):

- + Precinct
- + Congressional 2022
- + Senate 2022
- + Legislative 2022
- + Council 2022
- + Republican State Committee 2022

Notes for use

- + The historic boundary archive is volunteer-maintained rather than a city product; treat vintages as approximations and match each election to the vintage in force.
- + A Districts_2019.xlsx covers district versions prior to 2022.

Polling Places

Description

One row per division with the current polling place location, address, and accessibility and parking codes, as a Carto table with CSV, GeoJSON, and shapefile exports. Current snapshot only; no history is published.

Dedicated webpage

Index: <https://opendataphilly.org/datasets/polling-places/>

Example (CSV export):

[https://phl.carto.com/api/v2/sql?q=SELECT+*,+ST_Y\(the_geom\)+AS+lat,+ST_X\(the_geom\)+AS+lng+FROM+polling_places&format=csv...](https://phl.carto.com/api/v2/sql?q=SELECT+*,+ST_Y(the_geom)+AS+lat,+ST_X(the_geom)+AS+lng+FROM+polling_places&format=csv...)

Variables

- + ward
- + division
- + precinct
- + placename
- + street_address
- + zip_code
- + accessibility_code [letter codes; codebook on metadata.phila.gov]
- + parking_code [letter codes]
- + gdb_geomattr_data
- + objectid
- + lat
- + lng

Notes for use

- + The table is overwritten as locations change.

Allegheny County

Allegheny County's [Elections Division](#) posts results and resources on the county site, but its permanent machine-readable archive lives on the [Western Pennsylvania Regional Data Center](#) (WPRDC), the regional open data portal. A county Tableau dashboard maps mail ballot applications and returns by precinct for the current election but exports only countywide totals; precinct-level mail counts come from the Absentee vote type in the results files below. The county's own website blocks automated download tools, so its files (candidate lists, archive PDFs, the polling place spreadsheet) must be fetched in a browser; WPRDC serves scripts freely, and the election night site serves them once a browser user agent is set.

Certified Election Results

Description

Certified results for every primary, general, and special election from 2012 to the present, except 2013–2014, as a WPRDC dataset with resources per election in two schema eras. For 2012–2016, each election has a precinct-level CSV and a countywide summary CSV. From 2017 on, each election has a countywide totals CSV plus a zipped precinct-level detail XML exported from the county's election night reporting platform; the XML is the only county source splitting each precinct's candidate votes by vote mode [Election Day, Absentee, Provisional]. Registration and ballots-cast counts per precinct ride along in both eras.

Dedicated webpage

Index: <https://data.wprdc.org/dataset/election-results>

Example (2016 general by precinct): <https://data.wprdc.org/dataset/ea85f4b5-0b95-41b8-86ee-f1e6d16fc409/resource/3e8b23b7-aa71-4850-9379-bce87f73d684/download/2016-general-election-results-by-precinct.csv>

Example (2024 general countywide totals):

<https://data.wprdc.org/datastore/dump/a5a7de3e-e5b3-4e30-8b5b-f2da847ff963>

Variables

Precinct CSVs, 2012–2016

- + Reg Voters
- + Votes
- + Party
- + Dist. Type
- + Dist. Code
- + Contest Title
- + Cand. Num
- + Cand. Name
- + Precinct Name
- + Vote For
- + Ref

Countywide totals CSVs, 2017–present

- + _id [row number added by the portal]
- + line_number
- + contest_name
- + choice_name
- + party_name
- + total_votes
- + percent_of_votes
- + registered_voters
- + ballots_cast
- + total_number_of_precincts
- + number_of_precincts_reporting
- + over_votes
- + under_votes

Detail XML, 2017–present

- + ElectionResult root with Timestamp, ElectionName, ElectionDate, and a VoterTurnout element [totalVoters, ballotsCast, voterTurnout] holding one Precinct element per precinct
- + One Contest element per contest [key, text, voteFor, precinctsReporting], containing Choice elements [text, party, totalVotes], each split into VoteType elements [Election Day, Absentee, Provisional], each listing Precinct elements with votes

Notes for use

- + The two eras share nothing: parsers, granularity, and even how turnout is recorded differ. In the 2012–2016 CSVs, registration and turnout appear as pseudo-contests named REGISTERED VOTERS - TOTAL and BALLOTS CAST - TOTAL.
- + The Absentee vote type bundles no-excuse mail-in and excuse absentee ballots together.
- + In primary-election totals CSVs, the registered_voters and ballots_cast columns vary row to row and are unreliable outside general-election top-of-ticket rows.
- + Results before 2012 exist only as PDFs (summary, detail district, and detail canvass reports per election, 2007–2011) on the county's [results page](#); some 2009 links there point to the wrong files, so check the target file name against the link text.
- + Write-in results for the current cycle are posted separately as a spreadsheet on the county's candidate resources page, with vote totals by contest.

Election Night Reporting

Description

Live and post-canvass results on Clarity, the county's election night reporting platform, for every election from the 2016 general to the present. Each election exposes bulk downloads: a countywide summary CSV and precinct-level detail files in XML, fixed-width text, and Excel formats, all with vote mode splits. URLs are constructable once the election's numeric ID and current version number are known.

Dedicated webpage

Election links (by year) on the county results page:

<https://www.alleghenycounty.us/Government/Elections/Election-Results>

Example (2024 general, election ID 122424; current_ver.txt returns the version):

https://results.enr.clarityelections.com/PA/Allegheny/122424/current_ver.txt

Example (its detailed XML, version 355869):

<https://results.enr.clarityelections.com/PA/Allegheny/122424/355869/reports/detailxml.zip>

[summary.zip, detailtxt.zip, and detailxls.zip sit alongside]

Variables

summary.csv

- + line number
- + contest name
- + choice name
- + party name
- + total votes
- + percent of votes
- + registered voters
- + ballots cast
- + num Precinct total
- + num Precinct rptg
- + over votes
- + under votes

detail.xml follows the structure described under Certified Election Results.

Notes for use

- + The host rejects automated download tools unless a browser user agent is set, and serves JSON compressed.
- + A past election's current snapshot is not necessarily the certified data; for finished elections use the WPRDC copies, which archive the certified export.
- + Old county links embed a frozen version number that lags the current one; always resolve current_ver.txt first.

Polling Places

Description

Two current-snapshot listings of polling places, one per voting district. WPRDC publishes a geocoded dataset in CSV, GeoJSON, KML, and shapefile form. The county separately maintains a Polling Place Listing spreadsheet, updated continually, that flags each location as unchanged, changed, or to be changed.

Dedicated webpage

WPRDC: <https://data.wprdc.org/dataset/polling-places-for-allegheny-county-elections-current>

County listing (downloads a spreadsheet):

<https://www.alleghenycounty.us/Government/Elections/Candidate-and-Municipality-Resources/Polling-Place-Listing>

Variables

WPRDC CSV

- + _id
- + x
- + y
- + objectid
- + municipality
- + ps_num
- + muni [three-digit municipality code]
- + w [ward]
- + d [district]
- + mwd [concatenated municipality-ward-district key]
- + location_name
- + address
- + city
- + state
- + zipcode

County spreadsheet

Header is provided on the third row, after two note rows.

- + MUNICIPALITY
- + WARD
- + DISTRICT
- + LOCATION NAME
- + ADDRESS
- + ZIP
- + LOCATION TYPE
- + STATUS [Unchanged, Changed, To be changed]

Notes for use

- + Both are current snapshots; the WPRDC layer's underlying service is still named for November 2020 despite the "Current" label, and historical versions are available only by emailing the data steward listed on the dataset page.

Voting District Boundaries

Description

Boundaries for the county's roughly 1,300 voting districts as a WPRDC dataset in GeoJSON, KML, shapefile, and attribute-CSV form, with municipality, ward, and district codes matching the polling place files. Boundaries were redrawn to follow municipal lines in 2019; the prior version is preserved as an archived companion dataset.

Dedicated webpage

<https://data.wprdc.org/dataset/allegheeny-county-voting-district-boundaries>

Variables

- + _id
- + objectid
- + name [municipality name]
- + type [TOWNSHIP, BOROUGH, etc.]
- + label

- + district_1
- + ward_1
- + municode_1 [matches muni in the polling place file]
- + mwd_nopa_1 [municipality-ward-district key, unpadded]
- + opa_muni_1 [assessment-office municipality code]
- + mwd_pad_1 [zero-padded key]
- + pseud4_12
- + pseudonu_5
- + muni_war_1 [readable name, "Harrison Ward 3 Dist 1"]
- + shape_area
- + shape_length
- + rotatemap

Notes for use

- + Results files identify precincts by name ("Aspinwall Dist 1") while boundaries carry codes and labels, so joining the two requires name normalization.
- + The attribute CSV has no geometry column; use the GeoJSON or shapefile for mapping.