Maptitude
For Precinct & Election Management

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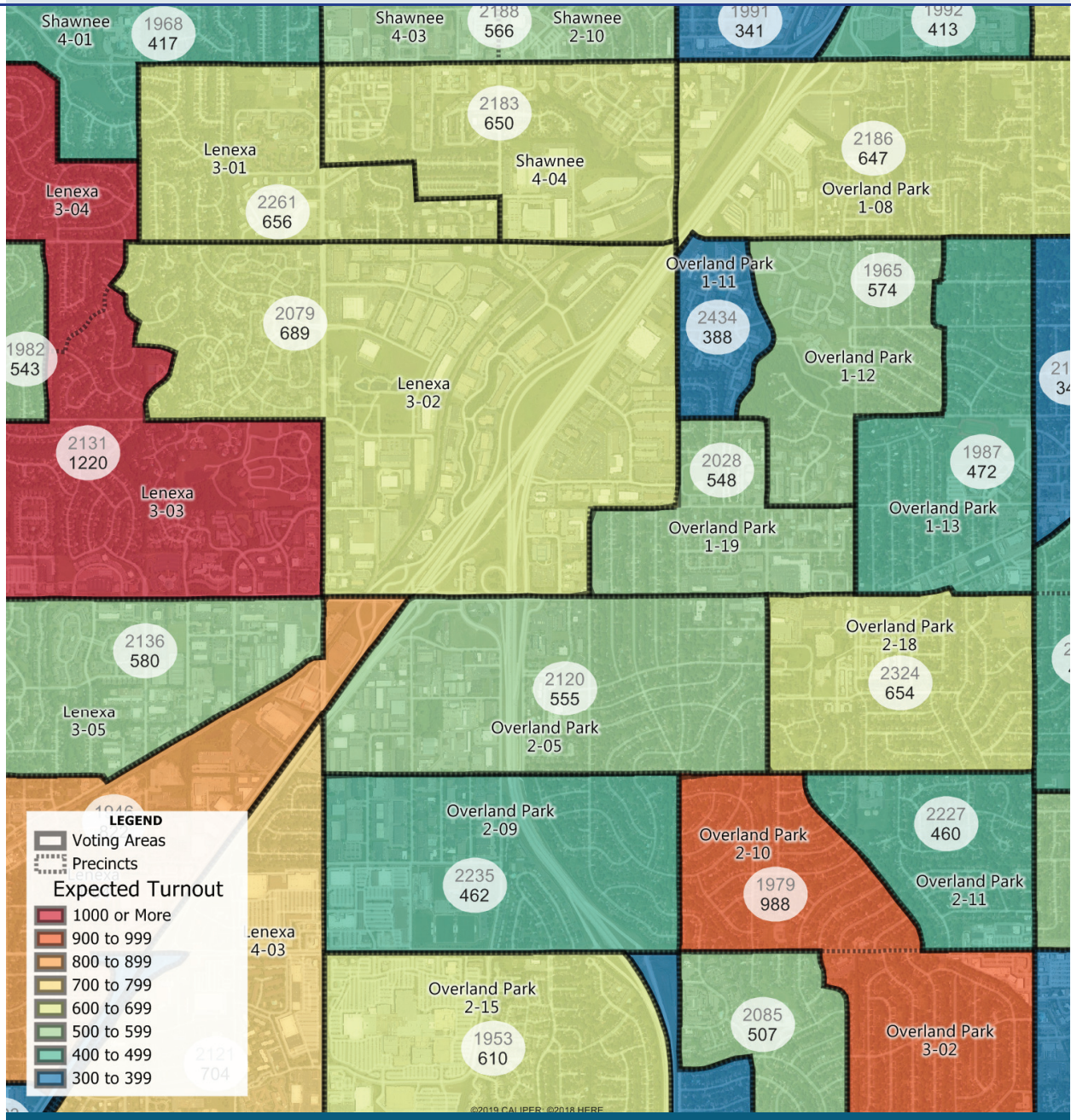

Caliper

www.caliper.com/precinct

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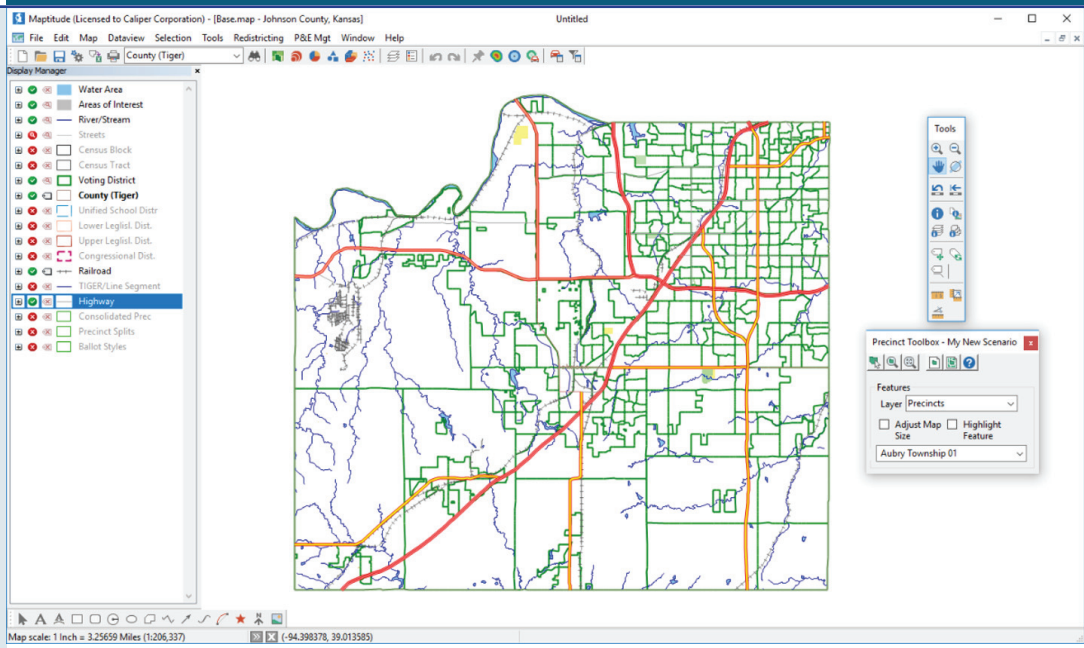


Precinct and Election Management Key Features:

- Update precinct boundaries
- Create precinct maps, map books, and reports
- Create street index files for your voter registration software
- Calculate unique ballot styles and precinct splits; create maps and reports
- Geocode registered voters and assign them to precincts, districts, ballot styles, etc.
- Consolidate precincts for each election to conserve resources
- Interface with most voter registration software and voter files
- Locate and correct errors in your voter registration files
- Analyze demographic data and provide targeted language assistance
- Add new streets to maps

Reprecincting/Redistricting Key Features:

- Create any redistricting plan including precinct, commission, ward, school, water, etc.
- Compute control field totals and deviations
- Select any number of summary data fields, and compute totals and percents
- Display the plan statistics in a scrollable data window
- Standard and user-defined reports
- Import plans from other GIS formats
- Export plans to equivalency files
- Verify completeness and district contiguity, and zoom to problem areas
- Compute measures of compactness
- Update historical election results to new political boundaries

Maptitude® for Precinct and Election Management (Maptitude P&E) combines sophisticated software, an easy-to-use interface, and a wide array of customized data to create a complete precinct and election management solution for county and state election offices. Use it alone or in conjunction with your county and statewide voter registration (VR) software.

Reprecincting and Redistricting

Maptitude P&E contains a variety of tools for modifying precinct boundaries. As you select geographic areas (such as census blocks), the software computes the number of registered voters being added to the precinct, along with any other summary fields you have identified. You can automatically create a list of registered voters and street segments where the precinct has changed.

Create Precinct Maps, Map Books, and Reports

The Precinct Map dialog box makes it easy to zoom to any precinct, query information about it, print a map, and print a legal description (metes and bounds report). Create a complete precinct map book using predefined templates. Design and print Precinct-Voter reports that list the number of voters per precinct and any other attributes you wish to include.

Update Your VR Street Index File in Minutes

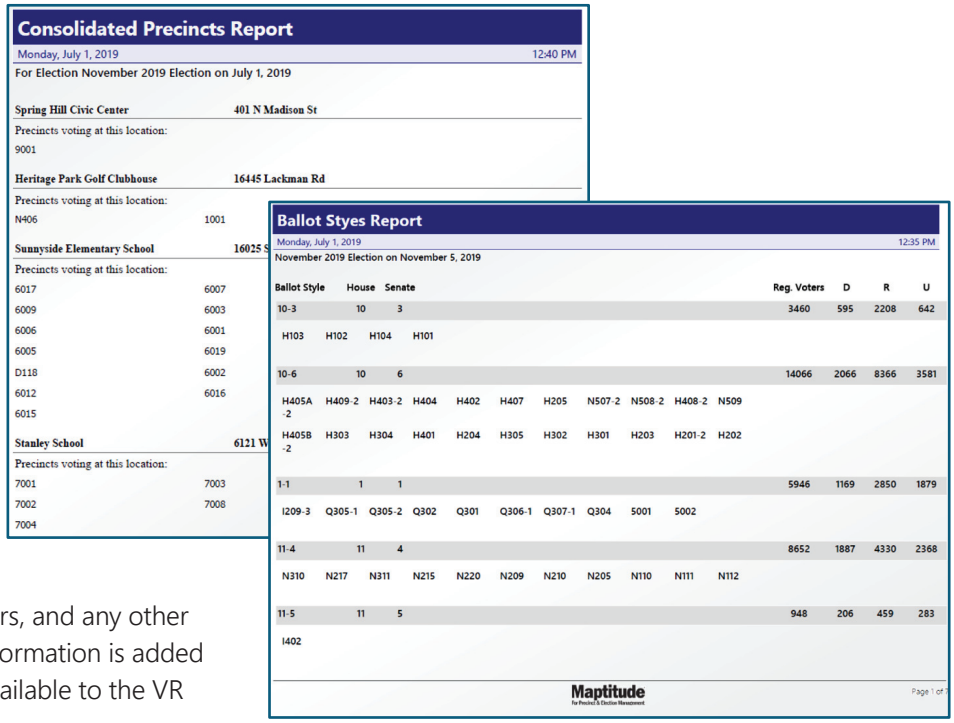
Once you have defined your new precinct boundaries, Maptitude P&E can automatically update the street index file required by your voter registration software. You can combine odd and even ranges, account for precinct splits, and print a sorted report.

"Using GIS to manage an election has provided Johnson County Election Office necessary internal control over what can best be described as a 'moving target' – conducting an election. The power of visualization extends the efficiency of the process while helping to maximize convenience to the voter."

Connie Schmidt, Election Commissioner

Enhance Voter Files and Correct Errors

Maptitude P&E can display and enhance the voter file from your VR software. Sophisticated geocoding tools result in a very high match rate. Addresses that don't geocode can be "pinned in" using the mouse. The geocoder automatically adds the precinct code and codes for any other layers requested by the user (e.g. census blocks, districts, and ballot styles). Compare the results from Maptitude with data already in the VR file to identify errors. Once all voters have been geocoded, you can update voter and party counts in the block, precinct, district, and ballot style layers, and any other geographic layers you choose. Since this information is added to the original voter file, it is immediately available to the VR software.



Consolidated Precincts Report

Monday, July 1, 2019 12:40 PM

For Election November 2019 Election on July 1, 2019

Spring Hill Civic Center 401 N Madison St

Precincts voting at this location:

9001

Heritage Park Golf Clubhouse 16445 Lackman Rd

Precincts voting at this location:

N406 1001

Sunnyside Elementary School 16025 S

Precincts voting at this location:

6017 6007

6009 6003

6006 6001

6005 6019

D118 6002

6012 6016

6015

Stanley School 6121 W

Precincts voting at this location:

7001 7003

7002 7008

7004

Ballot Styes Report

Monday, July 1, 2019 12:35 PM

November 2019 Election on November 5, 2019

Ballot Style	House	Senate									Reg. Voters	D	R	U
10-3	10	3									3460	595	2208	642
H103	H102	H104	H101											
10-6	10	6									14066	2066	8366	3581
H405A-2	H409-2	H403-2	H404	H402	H407	H205	N507-2	N508-2	H408-2	N509				
H405B-2	H303	H304	H401	H204	H305	H302	H301	H203	H201-2	H202				
1-1	1	1									5946	1169	2850	1879
I209-3	Q305-1	Q305-2	Q302	Q301	Q306-1	Q307-1	Q304	5001	5002					
11-4	11	4									8652	1887	4330	2368
N310	N217	N311	N215	N220	N209	N210	N205	N110	N111	N112				
11-5	11	5									948	206	459	283
I402														

Maptitude

Precinct Splits

Maptitude P&E intersects the precinct layer with all relevant district layers (e.g. congressional districts, state legislative districts, county commission districts, school board districts, etc.) to create a layer made up of precinct pieces or splits within which all districts are unique. Each precinct split includes the number of voters and voters by party.

Unique Ballot Styles

Create a geographic layer of unique ballot styles based on any combination of district layers (e.g. congressional districts, state legislative districts, county commission districts, school board districts, etc.). Create a map for each ballot style or a map book for all styles. Print ballot style reports sorted by precinct, ballot style, district IDs, or number of voters in each style. Create Street Index/Ballot Style reports and files.

Consolidated Precincts

Create a consolidated precincts layer that combines precincts that have a common polling place for a particular election. Each consolidated precinct lists the number of voters, voters by party, and any other summary fields you choose such as language and ethnicity. The consolidated precincts report lists the address and phone number of the polling place as well as the precincts that vote there.

Update Streets and Other Geographic Features

Maptitude P&E features full geographic editing. Add, remove, and realign streets, correct street names, address ranges and ZIP codes, split census blocks, add invisible features that define precinct boundaries, and make any other changes to the underlying geographic layers that are required.

Maptitude®
For Precinct & Election Management

Help America Vote Act

Some of the ways that Maptitude can leverage your HAVA funding:

- Eliminate errors in your voter file
- Update your street index file in minutes, not months
- Educate the public with informative maps
- Facilitate election day activities
- Enhance the political process
- Provide targeted language assistance
- Enhance staff productivity

P&E Settings Dialog Box

The P&E Settings dialog box lets you customize the way Maptitude P&E works. Use it to identify the precinct map, reprecincting plan, street file, voter file, and settings for geocoding, ballot styles and precinct splits layers, layouts for printing maps, and other relevant settings.

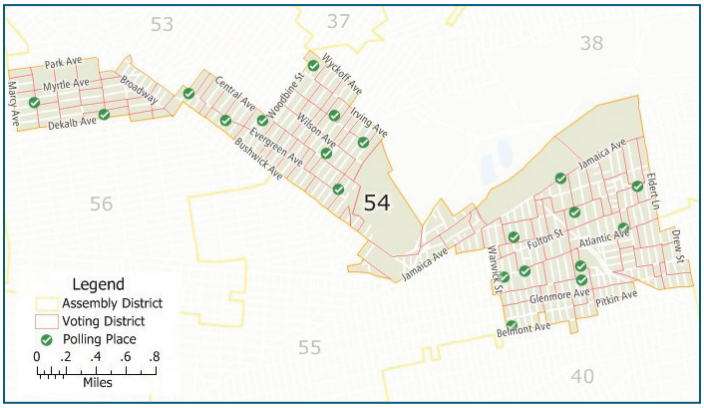
Built on Maptitude Technology

Maptitude is a full-featured Geographic Information System that has set new standards for performance and value. It provides a complete set of desktop mapping and spatial analysis functions. All Maptitude features are incorporated into Maptitude P&E including:

- Complete GIS and mapping capabilities
- Native support for ArcView Shapefiles, MapInfo files, Oracle, SQL Server, and most other file formats
- MapWizard® automatic mapping technology
- Shortest/fastest paths and drive-time rings
- Geographic analysis tools (buffer, density, overlay, and more)
- Map editing and customization
- Nationwide address matching and geocoding
- Feature selection/geographic queries
- Page Layouts
- Imagery support including ECW, Virtual Earth, Google Earth, OpenStreetMap, MrSID, GeoTIFF, SPOTView, and Orthophoto

Easy to Learn and Use

Maptitude P&E includes on-line help and detailed manuals packed with step-by-step instructions and tutorials. Each task has a well-designed dialog box that provides access to all related functions. Wizards help you create maps, display data using meaningful themes, geocode information based on street address, and create precinct and redistricting plans. Caliper Corporation offers hands-on training at your site or at our training facility in Newton, MA.



Works with Most Voter Registration and GIS Software

Maptitude P&E opens voter files from most VR software, either directly or using Microsoft Windows ODBC (Open Database Connectivity). The program creates street index files in several formats suitable for import into most VR software. Map ArcView Shape, MapInfo Tab, and Oracle Spatial files without conversion. Export precinct boundaries and redistricting plans (geography and data) to these other formats for use with other GIS software.

Publish Your Precinct Maps and Information on the Internet

Maptitude P&E lets you save your maps, data tables, charts, layouts, and reports as JPEG, PNG, and HTML files for static Web publishing.

Other Precinct and Election Management and Redistricting Services

Caliper provides consulting services, training, software customization, geocoding, data manipulation, web design, telephone support, and on-site support. For more information, contact Caliper Sales at 617-527-4700 or email sales@caliper.com.

Caliper®

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