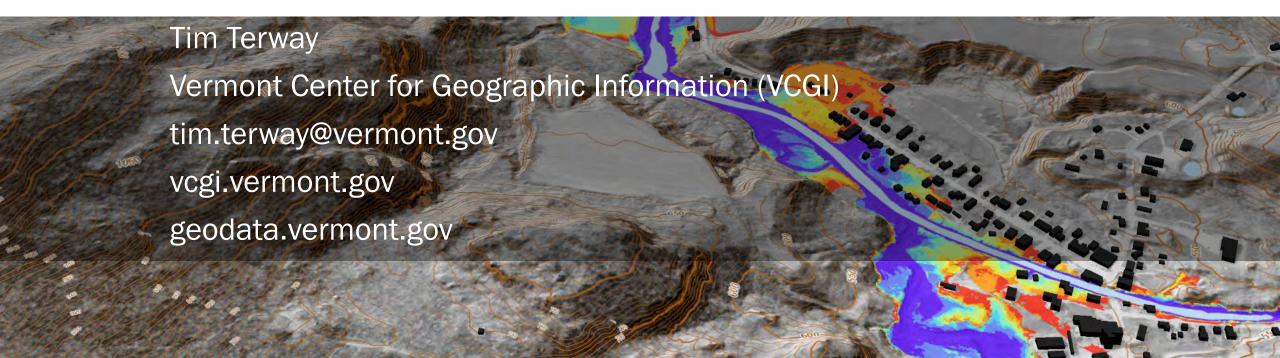


Accessing GIS Resources at the Vermont Open Geodata Portal



WHAT VCGI DOES



BUILD

Foundational
Datasets
(Spatial Data
Infrastructure)



LEAD

Development and
use of Statewide
Geographic Information
System (GIS) and the
Coordination it Requires



EMPOWER

Data access,
visualization and
application. "Helping
Vermonters visualize
choice."



MANAGEMEN



DEVELOPMENT SUITA

Take Home: Access to spatial information has become an essential service.



1992



2022



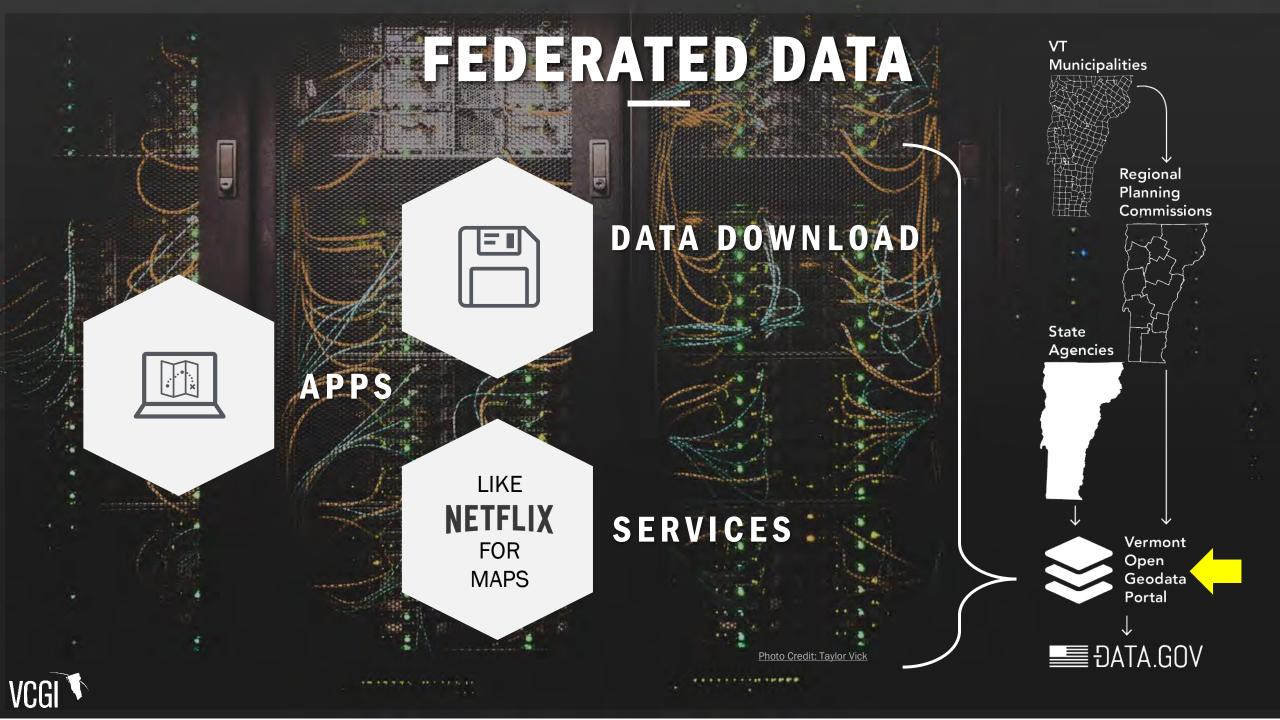
In 2021:

22 partners published 1075

open datasets generating an astounding 502,384,064

map server requests.

*VCGI server only. Not AGO, etc.



Feature Raster

Service Vector

Filter Query

Attribute Clip

Field

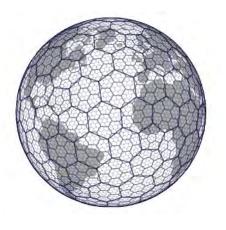
Geoprocessing Schema

Geographic Coordinate System /

View Projected Coordinate System / CRS

GDB WKID / EPSG

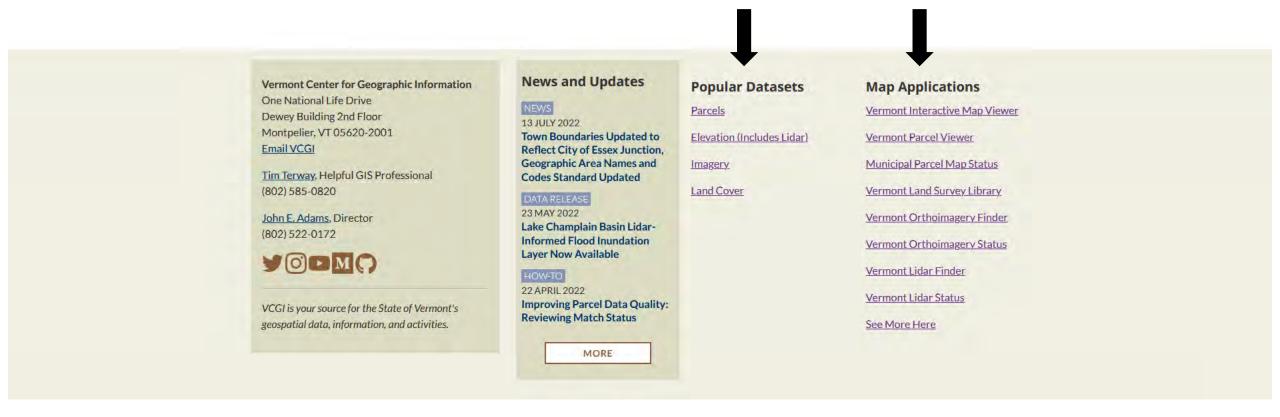
Shapefile Web Mercator



GIS

JARGON*

*a tiny sample



Footer of most pages at vcgi.vermont.gov



AGENCY OF DIGITAL SERVICES

Vermont Center for Geographic Information

SEARCH CONTACT

Data and Programs

Resources

Maps



Partner Agency Maps

Historic Maps

Partners

About VCGI

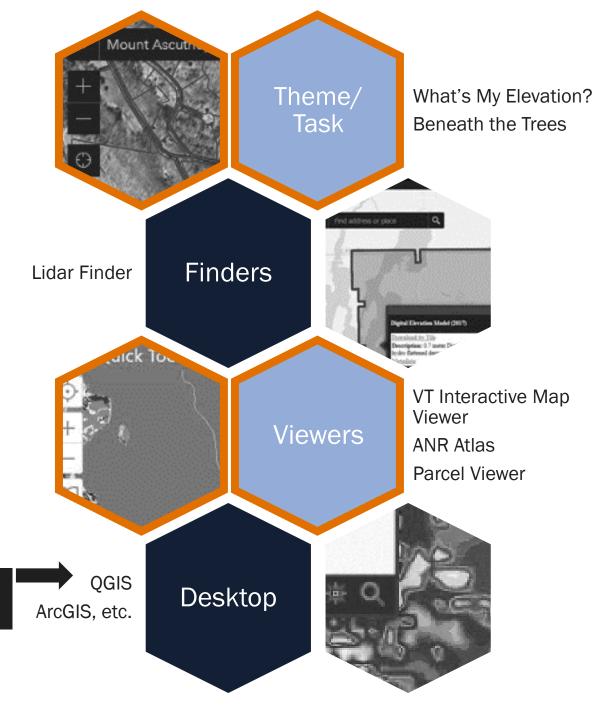
PARTNER AGENCY MAPS

VCGI works with multiple state agencies through the Enterprise GIS Consortium, whose own maps and mapping applications are linked below.

Map Applications

| AGENCY / DEPARTMENT | INTERACTIVE MAP | USES | | | |
|---|--------------------------------------|---|--|--|--|
| ACCD/DHCD | Planning Atlas | View planning, development, and historic preservation- related spatial datasets. | | | |
| ACCD / DHCD Municipal Planning Data Center | | View status of municipal plans, bylaws and designated areas throught Vermont. | | | |
| ACCD | Themed Tourism Maps | View lodging, attractions, shops, events, and fun facts around Vermont. | | | |
| ACCD / DED <u>Interactive Community Atlas</u> | | View businesses in Vermont with 30 or more employees across a variety of sectors. | | | |
| AHS/VDH | Local Health Basemap | View information to support local health work in Vermon | | | |
| AHS/VDH | Public Health Data Explorer | View public health information, trends over time, and visualize health indicators on a map. | | | |
| AHS/VDH | Community Profiles | View public health information, trends over time, and visualize health indicators on a map, sortable by different health communities. | | | |
| AHS/VDH | Environmental Public Health Tracking | View data on air quality, asthma, cancer, climate and health, drinking water, and more, all by location in Vermont. | | | |
| | | | | | |

Types of Apps

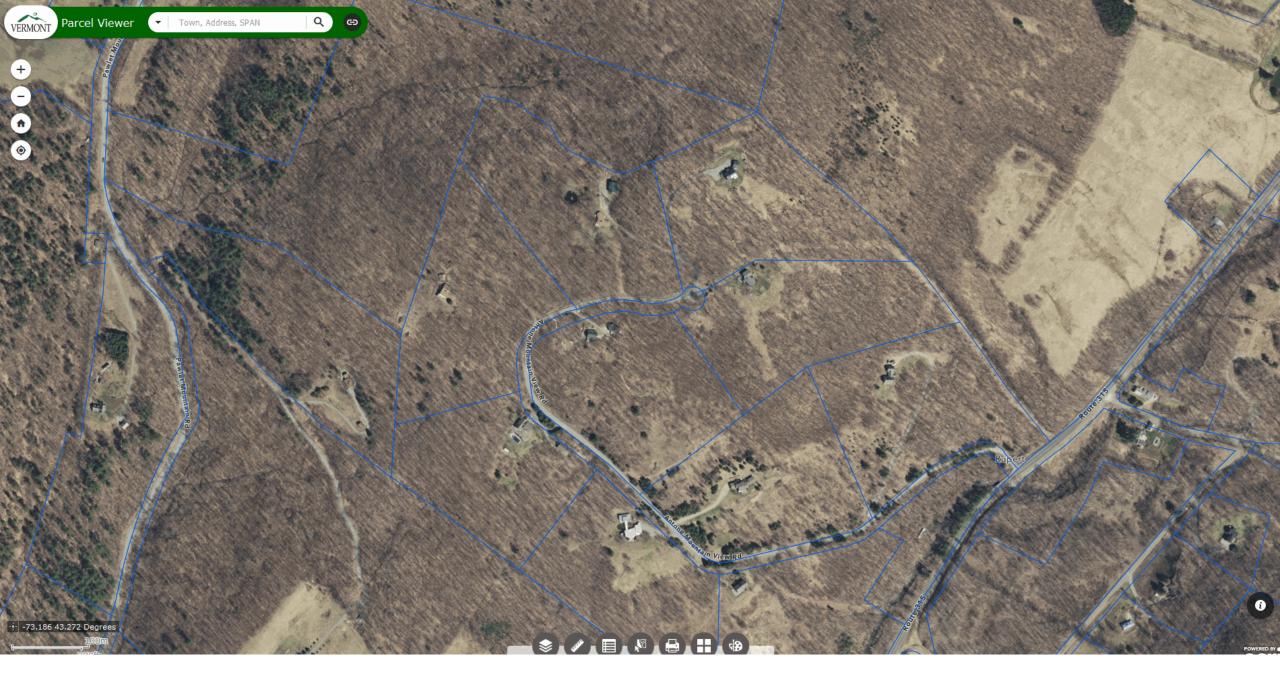


This is where raw datasets, thus, the VT Open Geodata Portal comes in









VT Parcel Viewer | A "Viewer" Type App













Using the Library

Zoom in and navigate the map to the location of the land survey. You can enter an address in the search bar or pan and zoom around the map with your mouse. Different layers become visible once zoomed in. The buttons above are for the following tasks:



Use the Add a Survey tool to add a survey.



Use the **Measurement** tool to measure lines or areas.



Use the Layer List to toggle layers on and off.



Use the More button to select items or change the basemap.



Use the **Select** tool to select multiple surveys and view their contents in the attribute table.



View the Attributes of selected items by expanding the table view at the bottom of the page.

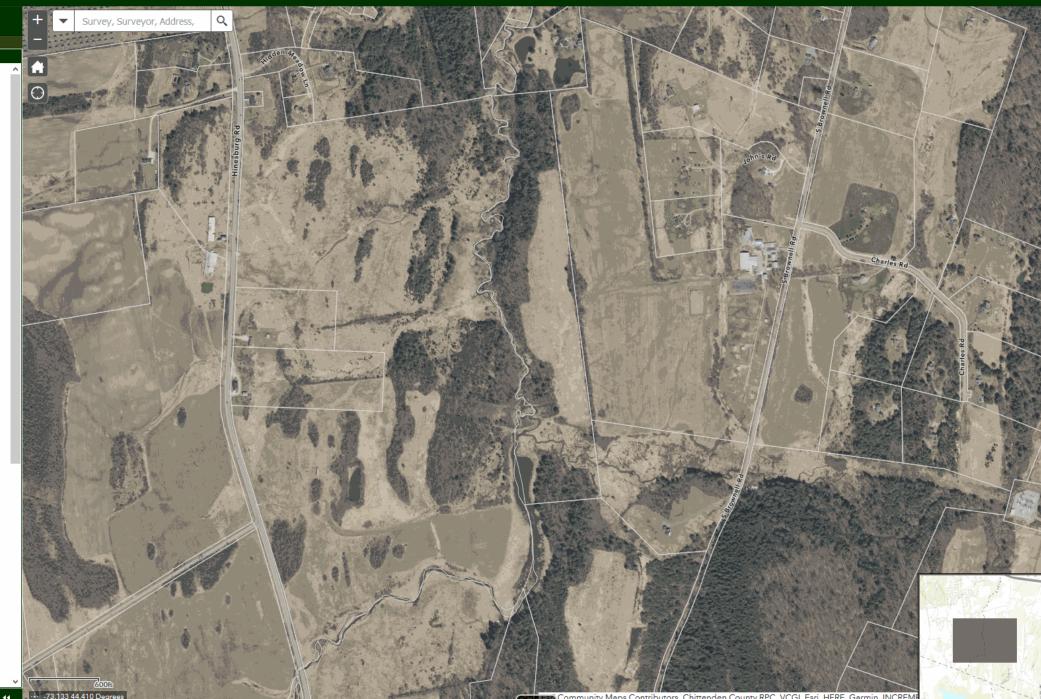
Searching for a Survey

By Search Bar: Type in the name of the surveyor or address of the survey's location

By Map: Navigate the map to the general location of the survey and make sure the survey library layer is turned on. You may also filter available surveys by map extent using the attribute table at the bottom of the page.

Viewing a Survey

Click on a polygon of a survey that you've located on the map. A pop-up window will display with its associated information. In the pop-up window, click on the linked .pdf in the Attachments field. This will open the .pdf in a new tab. For example:





STATE OF VERMONT

Vermont Open Geodata Portal DATA WEB SERVICES APPLICATIONS DEVELOPERS CONTACT US HELP













Agriculture

Basemap

Boundaries

Climate

Demographic + Economic











Elevation

Environment

Geologic | Soils

Health | Public Safety

Imagery











Land Use + Land Recreation Cover

Transportation

Utilities + Facilities

Water

Search by Agency/Organization

- VI Agency of Commerce and Community Development
- VT Agency of Human Services

- Addison County Regional Planning Commission
- Bennington County Regional Commission

Portal Background

Where "open" data has been, where it is, and where it is headed

30 years of open data



Client

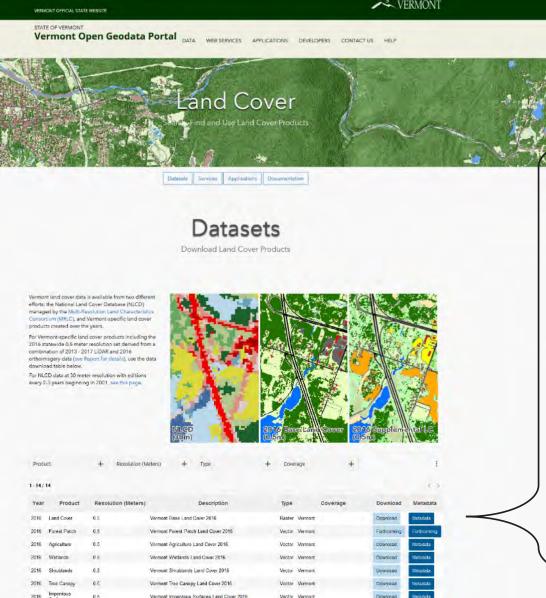
Internet

Web Service

Late 2017 - Present Day



geodata.vermont.gov



2016 3D Buildings

2013 Land Cover

2003 Land Cover

1996 Land Cover

1992 Land Cover

1-14/14

Vermont 3D Building Roofprints 2016

LCLU of lands next to V1 streams feeding Lake Champlain

Vermont and Lake Champlain Basin Land Cover 1996

Lake Champlain Basin Land Cover 1992

Vector Lake Champlain Basi

Raster Lake Champlain Basil

2020+

It is now possible to construct a Virtual Vermont for reference. No floppies needed.

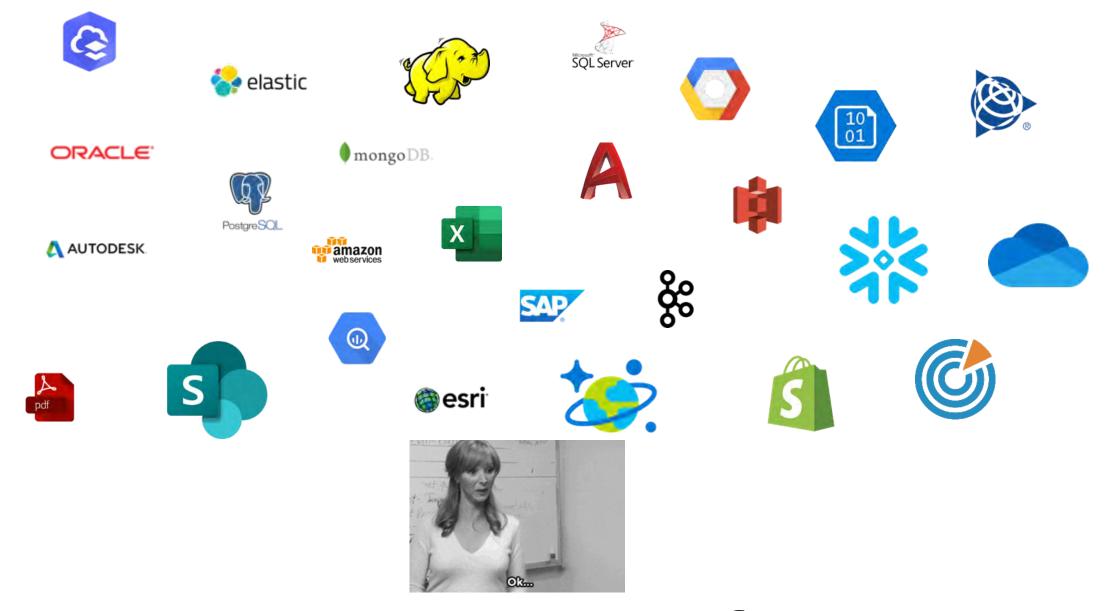


+ 1' CONTOURS, PARCELS









2022 - datatype/platform soup

There are many. There will be more. Task is thus understanding basics, integration and prep for use.

GIS ≠ CAD

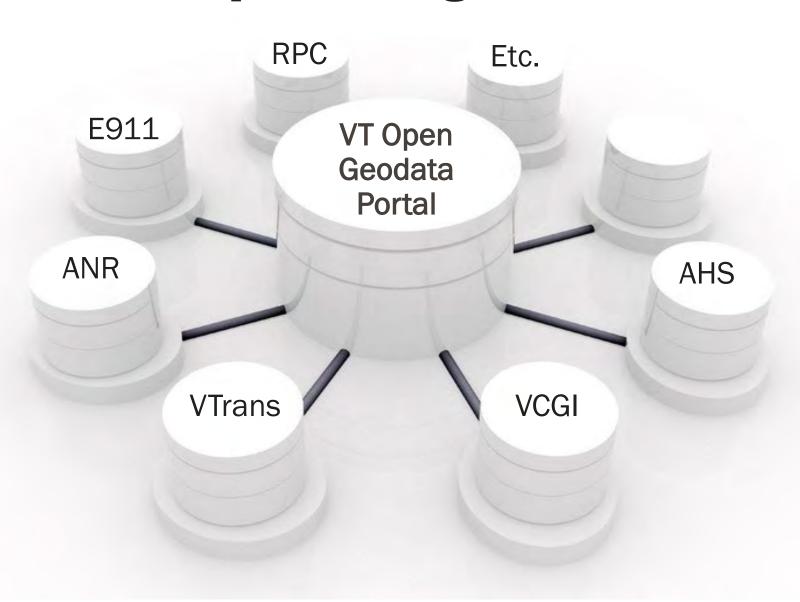
(sorry!)

Portal Publishing

"Federated" Model: Understanding and Finding Data, and Who/How Maintained

Hub-and-spoke design

a.k.a. "federated" model



Still, not perfect.

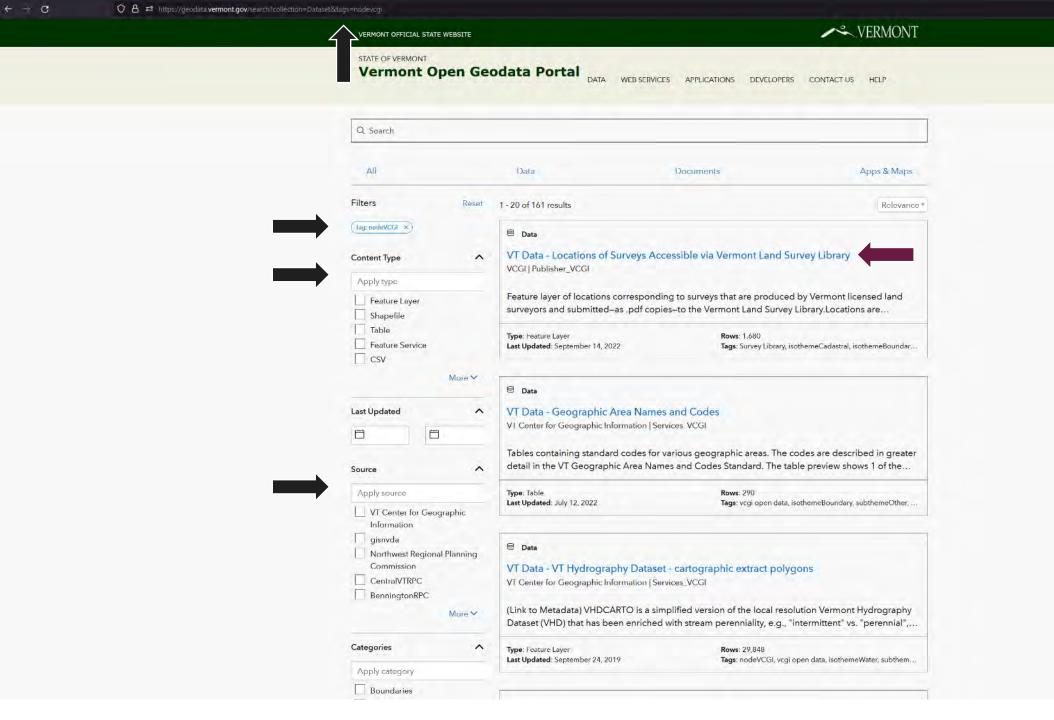
- No master librarian technical capabilities in current form
- Mixed adherence to data standards (e.g., Naming, tagging, metadata, etc.) – requires regular manual policing
- ESRI runs the platform backend (and changes things often, we're along for the ride)
- Vector data: Great. Raster data: not so great.
- Hitting ceiling on current portal capabilities as configured
- A head's up: the portal will change with time, so everything presented here will also evolve!

Current publishers.

Search by Agency/Organization

- VT Agency of Commerce and Community Development
- VT Agency of Human Services
- VT Agency of Natural Resources
- VT Agency of Transportation
- VT Center for Geographic Information
- VT Department of Public Service

- Addison County Regional Planning Commission
- Bennington County Regional Commission
- Central Vermont Regional Planning Commission
- Chittenden County Regional Planning Commission
- Northeastern Vermont Development Association
- Northwest Regional Planning Commission
- Rutland Regional Planning Commission
- Lamoille County Planning Commission
- Southern Windsor County Regional Planning Commission
- Two Rivers-Ottauquechee Regional Commission
- Windham Regional Commission

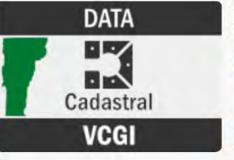


Portal Content

Anatomy of an Open Data Item

Vermont Open Geodata Portal

DATA WEB SERVICES APPLICATIONS DEVELOPERS CONTACT US HELP



VT Data - Locations of Surveys Accessible via **Vermont Land Survey Library**



View Map

Download





Summary

Locations and information corresponding to copies of surveys that are accessible via the Vermont.

Feature layer of locations corresponding to surveys that are produced by Vermont licensed land surveyors and submitted-as .pdf copies-to the Vermont Land Survey Library.

Locations are attributed with information such as name of surveyor, date of survey, survey type (e.g., subdivision), and municipality. When the feature layer is opened in ArcGIS Online, the .pdf copies (as feature attachments) can be viewed/downloaded.

Boundaries Property

Looking for something else? See other datasets nearby



| Name | Туре | Action |
|--------------|--------------|--------|
| CreationDate | Date or Time | |
| Creator | Text | Lalls. |
| EditDate | Date or Time | |
| | | |

Read More v

You may be interested in

Details







January 1, 2020 Published Date

1,684 Records View data table

Public

Anyone can see this content

Custom License 1 View ficense details

Relevant Area



I want to...

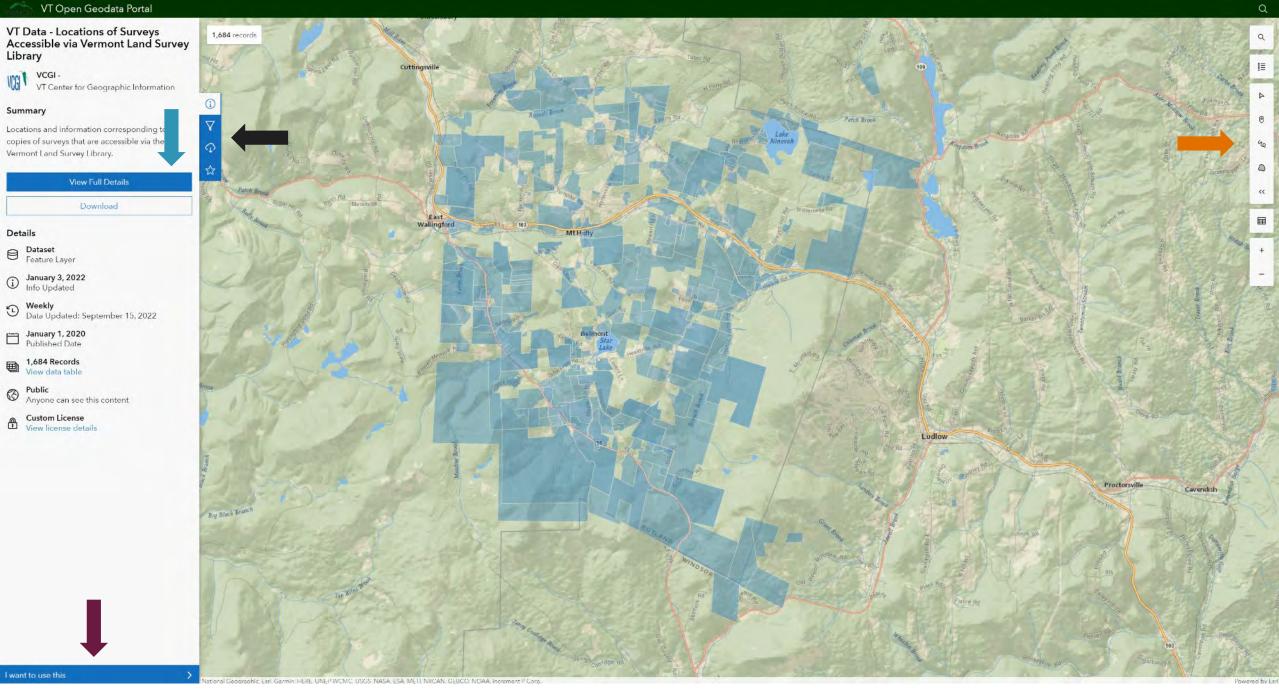












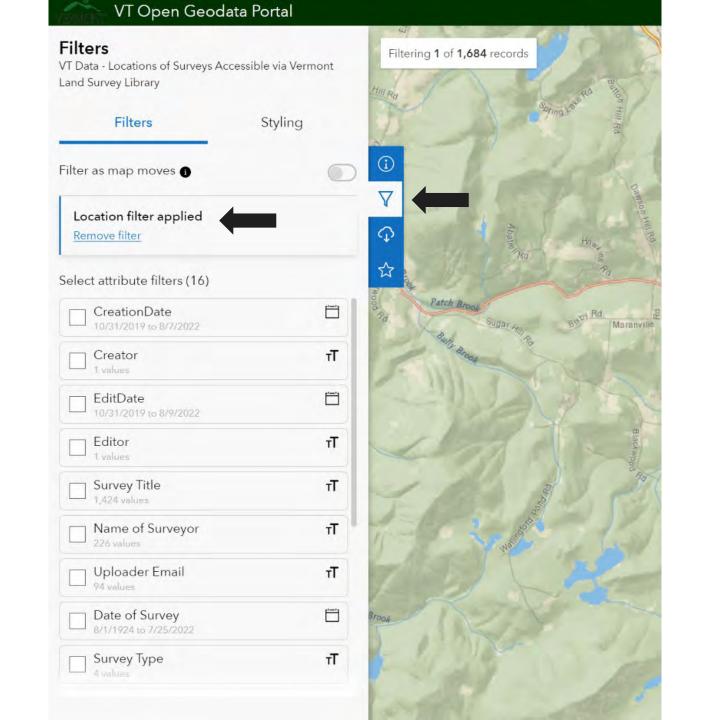
A Vector Dataset / Feature Layer Example: Survey Library Index Polygons

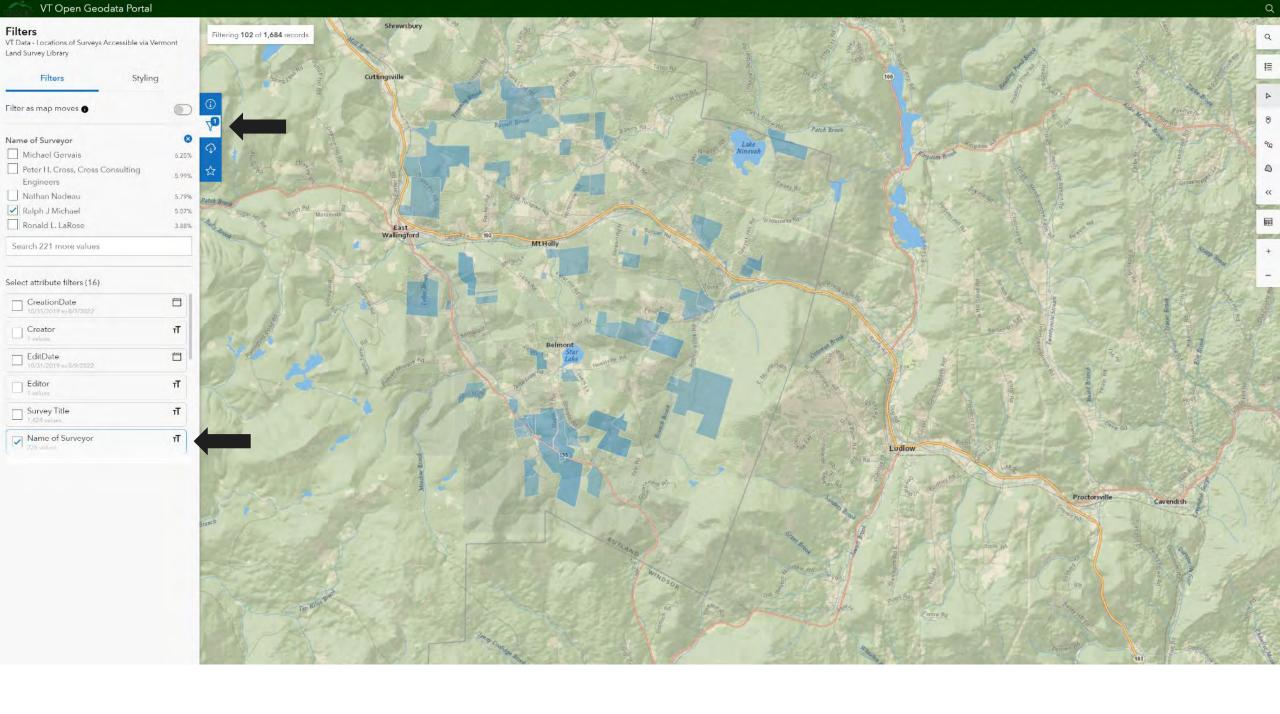
GeoJSON

File Geodatabase

Downloading an updated file may take

▼ National Geographic Earl, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.





wrcreamer72@gmail.com

11/13/20

Q

Close Table

VT Open Geodata Portal

VT Data - Locations of Surveys Accessible via Vermont Land Survey Library



VCGI -

VT Center for Geographic Information

Summary

Locations and information corresponding to copies of surveys that are accessible via the Vermont Land Survey Library.

View Full Details

Download

Details

Dataset Feature Layer

January 3, 2022 Info Updated

Weekly

Data Updated: September 15, 2022

January 1, 2020 Published Date

1,684 Records View data table

Public

Anyone can see this content

Custom License

View license details

Showing 25 of 1,684 rows

| | | CreationDate | Creator | EditDate | Editor | Survey Title | Name of Surveyor | Uploader Email | Date of S |
|----|-----|----------------------|----------------|----------------------|----------------|-------------------------------|----------------------------|----------------------------|-----------|
| | | 10/31/2019, 2:00 PM | Publisher_VCGI | 3/11/2020, 2:33 PM | Publisher_VCGI | Plat Showing subdivision of I | Kevin R. Larose | david.n.fox@vermont.gov | 7/17/201 |
| | (i) | 10/31/2019, 2:00 PM | Publisher_VCGI | 10/31/2019, 2:00 PM | Publisher_VCGI | Preliminary Plat of Minor Sub | BM Paul | david.n.fox@vermont.gov | 8/18/201 |
| | 7 | 10/31/2019, 2:00 PM | Publisher_VCGI | 10/30/2020, 8:34 AM | Publisher_VCGI | Lands of John M. & Julie M. E | Michael Gervias | david.n.fox@vermont.gov | 6/5/2017 |
| | Φ | 10/31/2019, 2:00 PM | Publisher_VCGI | 10/31/2019, 2:00 PM | Publisher_VCGI | Property Line Adjustment Pla | Merrill A. Mundell, Jr. | david.n.fox@vermont.gov | 2/25/201 |
| | ☆ | 10/31/2019, 2:00 PM | Publisher_VCGI | 10/31/2019, 2:00 PM | Publisher_VCGI | Subdivision Plat for Ernest N | Mark Day | david.n.fox@vermont.gov | 6/20/201 |
| -1 | | 10/31/2019, 2:00 PM | Publisher_VCGI | 10/31/2019, 2:00 PM | Publisher_VCGI | Boundary and Subdivision Pl | Mark Day | david.n.fox@vermont.gov | 3/20/201 |
| -1 | | 10/31/2019, 2:00 PM | Publisher_VCGI | 10/31/2019, 2:00 PM | Publisher_VCGI | A Map of Certain Lands of Je | Kenneth G. Weston | david.n.fox@vermont.gov | 6/15/200 |
| | | 12/12/2019, 2:30 PM | Publisher_VCGI | 12/30/2019, 9:01 AM | Publisher_VCGI | Subdivision of th Bruce Whe | George E. Bedard | david.n.fox@vermont.gov | 12/7/201 |
| | | 12/16/2019, 10:06 AM | Publisher_VCGI | 12/30/2019, 9:00 AM | Publisher_VCGI | Subdivision Plat of a Portion | Donald A. Johnson | david.n.fox@vermont.gov | 7/30/201 |
| | | 12/16/2019, 10:10 AM | Publisher_VCGI | 12/30/2019, 9:00 AM | Publisher_VCGI | Suvery and Subdivision of La | Tami Bass | david.n.fox@vermont.gov | 8/1/2004 |
| | | 12/20/2019, 11:40 AM | | 12/30/2019, 11:24 AM | Publisher_VCGI | Estate of Adelbert Ames, III | Joseph DiBernardo | joedibo@comcast.net | 10/2/201 |
| | | 12/20/2019, 12:57 PM | | 10/30/2020, 8:34 AM | Publisher_VCGI | Boundary Line Adjustment of | Keith Van Iderstine | scott@mccainconsulting.com | 12/20/20 |
| | | 12/20/2019, 2:17 PM | | 12/30/2019, 8:57 AM | Publisher_VCGI | Subdivision Plat, Lands of: B | KML Surveying & Design, PL | kml.surveying@icloud.com | 12/12/20 |
| | | 12/30/2019, 11:07 AM | | 10/30/2020, 8:34 AM | Publisher_VCGI | Survey and Subdivision of a | Keith Van Iderstine | scott@mccainconsulting.com | 12/19/20 |
| | | 1/2/2020, 4:21 PM | | 1/3/2020, 10:00 AM | Publisher_VCGI | Laquerre Subdivision | William R Chase | cdchase@chasesurveyors.com | 4/1/2019 |
| | | 1/6/2020, 2;35 PM | | 10/30/2020, 8:35 AM | Publisher_VCGI | Subdivision For THE CONSE | Richard F, Lunna | rflunna@gmail.com | 11/22/20 |
| | | 1/8/2020, 11:36 AM | | 10/30/2020, 8:34 AM | Publisher_VCGI | LANDS OF CHAMPLAINSIDE | Michael Gervias | rob@barnardandgervais.com | 11/15/20 |
| | | 1/9/2020, 9:49 AM | | 1/9/2020, 3;26 PM | Publisher_VCGI | Boundary Line Adjustment Pl | Mark Day | nicole.snow@tcevt.com | 11/19/20 |
| | | | | | | | | | |

Publisher_VCGI Survey of Lot 4 & 5 For Wesle... William R. Creamer

I want to use this

1/10/2020, 10:42 AM

1/13/2020, 8:58 AM

Demo

A Vector Dataset / Feature Layer Example: Survey Library Index Polygons