



# DIGGING INTO OPEN DATA

CANADA'S OPEN GOVERNMENT PORTALS  
BY RHYS STEVENS



October 25, 2021

# A FEW DEFINITIONS

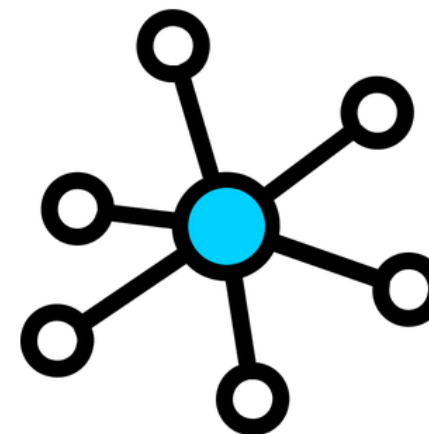


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[What we do](#) [Who we are](#) [What is open?](#) [About](#) [Blog](#) [Q](#)

## What is open?

'Open knowledge' is any content, information or data that people are free to use, re-use and redistribute – without any legal, technological or social restriction.



“ *Open Government* is about making government more accessible to everyone. This means giving greater access to government **data** and **information** to the Canadian public and the business community. [[Link](#)]

About Open Government

Government of Canada (2019, Sept.)



“ *Open Data* is a growing movement where organizations, especially government, release data to the public for use free of charge; allowing residents, students, educators, start-ups, and businesses to access and leverage the data for their needs. Location data represents a large portion of open data, approximately 60-80% of all open datasets. [[Link](#)]

Ryan Garnett

City of Toronto Manager Geospatial Data Integration & Access (2019, Aug.)



# OPEN DATA – KEY POINTS

Open data is defined as structured data that is machine-readable, freely shared, used and built on without restrictions. The key points to remember about open data are:

- **Availability and access**
  - **Re-use and redistribution**
  - **Universal participation**
- [Open Data 101](#), Government of Canada (2020, November)
  - [What is Open?](#) Open Knowledge Foundation

Useful

Usable

Used



WHAT KINDS OF OPEN GOVERNMENT DATA ARE AVAILABLE?

# EXAMPLES OF OPEN GOVERNMENT DATA

There are many kinds of open data that have potential uses and applications:

- **Culture:** Data about cultural works and artifacts
- **Science:** Data produced as part of scientific research
- **Finance:** Data such as government accounts and information on financial markets
- **Statistics:** Data produced by statistical offices
- **Weather:** The many types of information about weather and climate
- **Environment:** Information related to the natural environment

SOURCE: <https://okfn.org/opendata/>



# HOW & WHERE DO YOU FIND OPEN GOVERNMENT DATA?

EXAMPLES OF CANADIAN GOVERNMENT PORTALS: FEDERAL, PROVINCIAL AND MUNICIPAL





# CANADA'S OPEN GOVERNMENT PORTAL

- A one-stop location to access to the Government of Canada's searchable open data and open information, together with open dialogue
- Part of the federal government's commitment to enhance transparency and accountability.
- [Apps Gallery](#)
- [Frequently Asked Questions](#)
- [Open Data User Stories](#) – how Open Data is being used.

# GOVERNMENT OF CANADA OPEN DATA PORTAL

<https://open.canada.ca/en/open-data>

The screenshot shows the Government of Canada Open Data Portal. At the top, there is a navigation bar with the Canadian flag, the text "Government of Canada" and "Gouvernement du Canada", and a search bar labeled "Search Canada.ca". A "Français" link is also present. Below the navigation bar is a "MENU" dropdown. The main heading is "Open Data", followed by a sub-heading: "Search open data that is relevant to Canadians, learn how to work with datasets, and see what people have done with open data across the country." To the right of this text are social media icons for Twitter, RSS, and Facebook, with the word "Follow:" preceding them. Below this is a search bar with the text "Search through our Open data portal." and a "Find" button. The bottom section is titled "Browse by subject" and features a grid of 18 icons, each representing a different subject area: Agriculture, Arts, Music, Literature, Economics and Industry, Education and Training, Government and Politics, Health and Safety, History and Archaeology, Information and Communications, Labour, Language and Linguistics, Law, Military, Nature and Environment, Persons, Processes, Science and Technology, Society and Culture, and Transport.

Government of Canada / Gouvernement du Canada

Search Canada.ca

Open Data

Search open data that is relevant to Canadians, learn how to work with datasets, and see what people have done with open data across the country.

Follow:

Search through our Open data portal.

Find

Browse by subject

- [Agriculture](#)
- [Arts, Music, Literature](#)
- [Economics and Industry](#)
- [Education and Training](#)
- [Government and Politics](#)
- [Health and Safety](#)
- [History and Archaeology](#)
- [Information and Communications](#)
- [Labour](#)
- [Language and Linguistics](#)
- [Law](#)
- [Military](#)
- [Nature and Environment](#)
- [Persons](#)
- [Processes](#)
- [Science and Technology](#)
- [Society and Culture](#)
- [Transport](#)

# ALBERTA'S OPEN DATA CATALOGUE

- Open Government Portal is collection of datasets and publications by government departments and agencies. The public can use and access this data freely to learn more about how government works, carry out research or build web apps.
- The Open Government Program launched in November 2012; Open Data Portal V. 1.0 in May, 2013. Include are 23,300+ open publications and 2,800+ open datasets.
- **EXAMPLES:**
  - [Open Government Program Visualizations & Apps](#)
  - [Frequency and Ranking of Baby Names by Year and Gender, 1980-2021](#) [Dataset]
  - [Web Usage Metrics of the Open Government Portal](#)

## Open government portal

The open government portal is a collection of datasets and publications by government departments and agencies. The public can use and access this data freely to learn more about how government works, carry out research or build web apps.

The portal functions as both a library for current publications and as an archive for old publications which have historic value.



### [Search for publications](#)

Search for Alberta government publications and laws.



### [Browse the open data catalogue](#)

Search for government data in the open data catalogue to do research, build apps and gain insights.

158990	232	Martin	20	Boy	2020
158991	232	Miller	20	Boy	2020
158992	232	Not	20	Boy	2020
158993	232	Rhys	20	Boy	2020
158994	232	Tobias	20	Boy	2020
158995	232	Zain	20	Boy	2020
158996	232	Zayden	20	Boy	2020

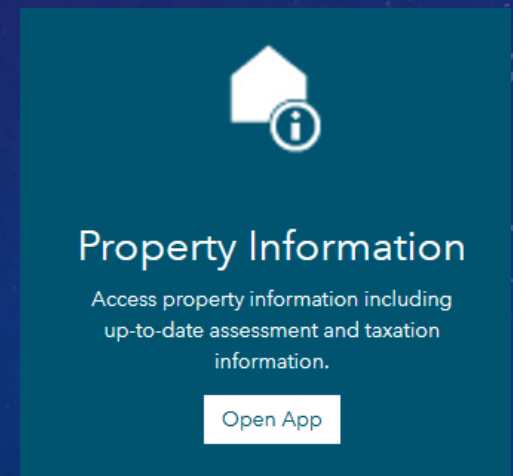
# GOVERNMENT OF ALBERTA OPEN DATA CATALOGUE

<https://open.alberta.ca/opendata>

The screenshot shows the Government of Alberta Open Data Catalogue website. The page features a search bar at the top with the text "Search all Resources". Below the search bar, there are navigation links for "Resources" and "Interact". The main content area displays the "OPEN GOVERNMENT PROGRAM" and "Open Data" section. A search bar on the left is labeled "Search Open Data" and contains the text "Enter search terms...". Below the search bar, there is a "Refine Results" section with a "Topic" filter. The "Topic" filter is expanded, showing a list of categories with their respective counts: Health and Wellness (385), Society and Communities (303), Employment and Labour (195), Economy and Finance (191), Population and Demography (182), and a "SHOW MORE (23)" button. Below the "Topic" filter, there is a "Publisher" filter with a list of publishers: Alberta Energy Regulator (1339), Environment and Parks (371), and Health (317). The main search results area shows "2,835 results". There are two dropdown menus: "Sort Results by" set to "Date updated (new to old)" and "Items per page" set to "10". The first result is "Alberta Activity Index Data Table". It has a "VIEWS: 5025" and "UPDATED: September 30, 2021". The "DESCRIPTION" states: "The Alberta Activity Index (AAX) closely tracks economic activity. Developed by Alberta Treasury Board and Finance, it is a weighted average of nine monthly indicators (employment, average weekly ...". There are two buttons for downloading the data: "OPENDATA" and "XLSX". Below the description, there is a "TAGS" section with a grid of tags: Average weekly earnings, Economic indicators, Employment, Housing starts, Manufacturing, Oil production, Retail trade, Rigs drilling, Truck sales, and Wholesale trade. The page also features social media icons for Facebook, Twitter, LinkedIn, Email, and RSS.

# LETHBRIDGE'S OPEN DATA CATALOGUE

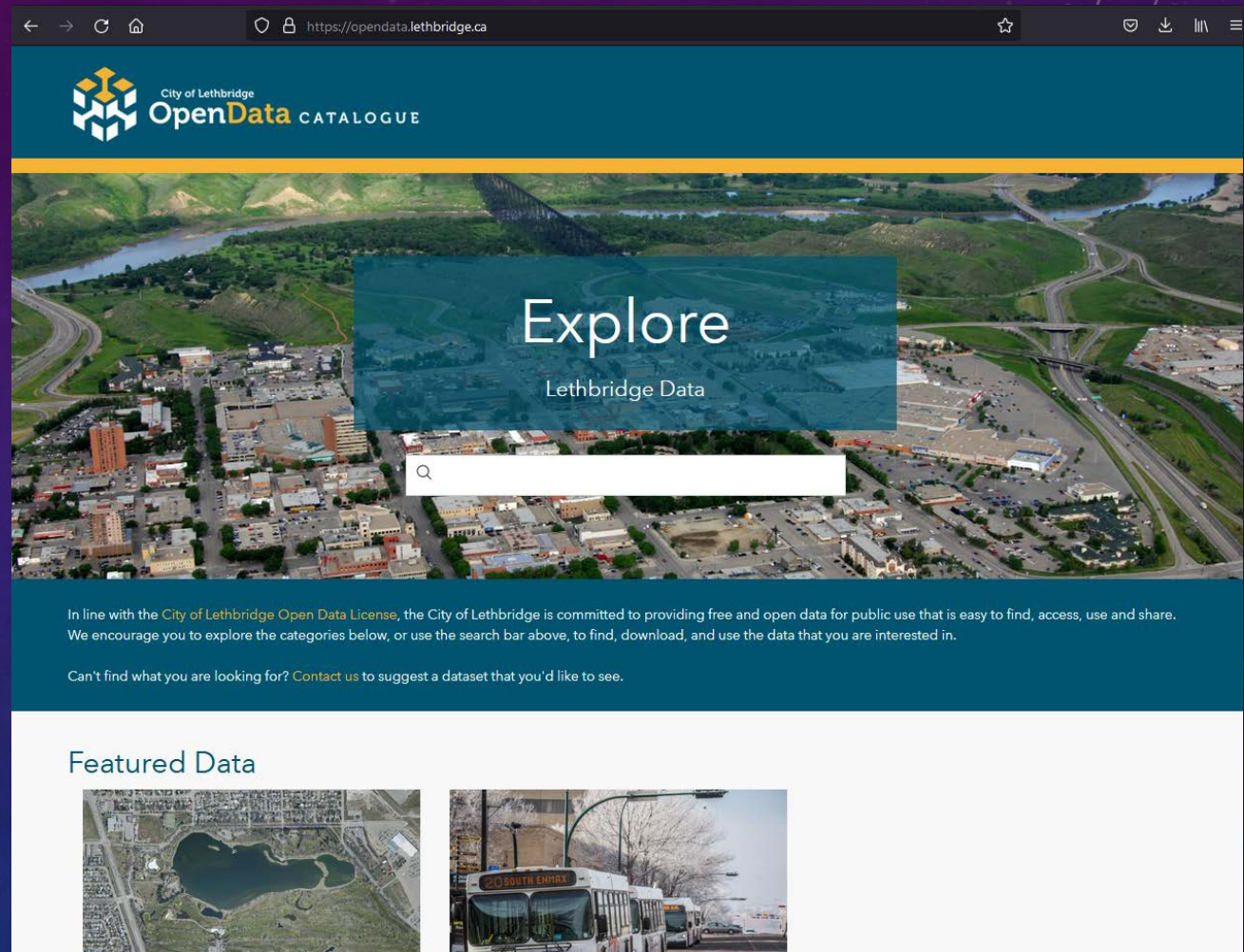
- Download, visualize and analyze raw data and share your insights with our community or build new applications that serve specific users; includes 48 datasets, 42 documents & 9 apps & maps
- Provides several interactive web mapping applications for you to access and view some of the information available through the Open Data Catalogue.
- **EXAMPLES of APPS:**
  - [Property Information](#) / [Lethbridge Explorer](#) / [Fire Incidents](#) / [Lethbridge Census](#)



The screenshot shows a dark teal background with a white house icon and an information 'i' icon. Below the icons, the text reads 'Property Information' in a large white font, followed by 'Access property information including up-to-date assessment and taxation information.' in a smaller white font. At the bottom, there is a white button with the text 'Open App'.

# CITY OF LETHBRIDGE OPEN DATA CATALOGUE

<https://opendata.lethbridge.ca/>



The screenshot shows the City of Lethbridge Open Data Catalogue website. The browser address bar displays <https://opendata.lethbridge.ca>. The page header features the City of Lethbridge logo and the text "City of Lethbridge OpenData CATALOGUE". The main content area has a teal background with an aerial photograph of Lethbridge, Alberta. Overlaid on the photo is a semi-transparent teal box containing the word "Explore" in large white font, with "Lethbridge Data" in smaller white font below it. A white search bar with a magnifying glass icon is positioned below the text. Below the search bar, there is a teal text block containing the following information:

In line with the [City of Lethbridge Open Data License](#), the City of Lethbridge is committed to providing free and open data for public use that is easy to find, access, use and share. We encourage you to explore the categories below, or use the search bar above, to find, download, and use the data that you are interested in.

Can't find what you are looking for? [Contact us](#) to suggest a dataset that you'd like to see.

Below this text is a section titled "Featured Data" with two image thumbnails: an aerial view of a park with a pond and a street view of a bus stop.

# OTHER OPEN GOVERNMENT DATA SOURCES [EXAMPLES]

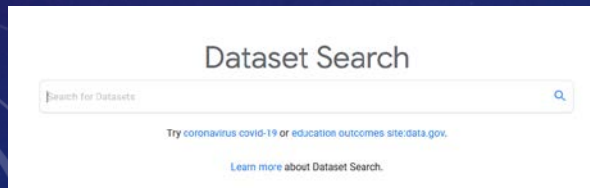
- [City of Vancouver Open Data Portal](#) – [Map builder](#) & Chart builder
- [City of Toronto Open Data Portal](#)
- [Open Calgary](#)

## Other Sources Containing Links to Open Data

- [GIS & Spatial Data Library Guide](#) [U. of Lethbridge]
- [Numeric Data & Statistics Library Guide](#) [U. of Lethbridge]

## Searching for Data (Including from Open Data Portals)

- [Google Dataset Search](#)





# HOW DO YOU MAKE USE OF OPEN DATA?

EXAMPLES USING DOWNLOADED DATA



## ONTARIO PUBLIC LIBRARY STATISTICS [CSV DATASET]

Download CSV Dataset

Select CSV Table Columns

1.

2017 [Download](#)

2016 [Download](#)

2015 [Download](#)

2012 [Download](#)

2019 [Download](#)

2020 [Download](#)

[Original metadata \(https://data.ontario.ca\)](https://data.ontario.ca)

Contact Information  
Electronic Mail Address: [opengov@ontario.ca](mailto:opengov@ontario.ca)

Did you find this dataset useful? Rate

Similar records

2.

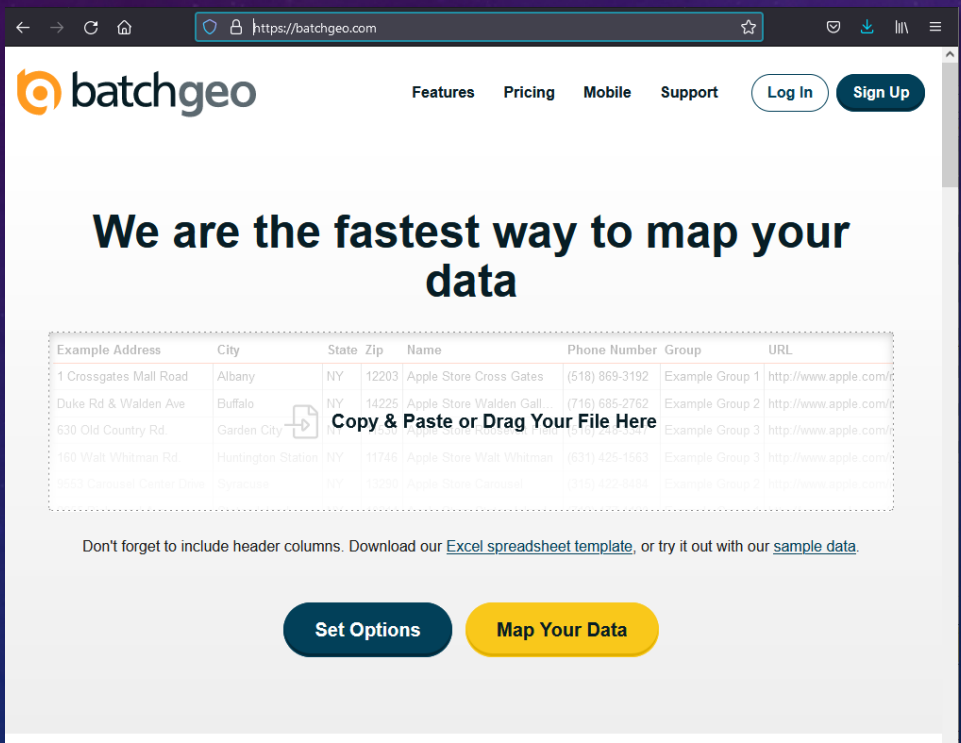
Library Full Name	Library Number	Survey Year	Ontario Library Type	Service	Mailing Address	City	Province	Postal Code	Website	...						
Addington Highlands	L0005	2020	Southern Ontario Public or Union Library	3641 Flinton Rd. Box 72	Flinton	Ontario	K0H1P0	www.adding	910	25,345	11,434	0	0	11,434	78,552	0
Adjala-Toronto	L0003	2020	Southern Ontario Contracting Municipality	7855 Sideroad 30 R.R. #1	Alliston	Ontario	L9R1V1	www.adjtos	0	0	13,821	0	0	13,821	9,719	0
Admaston/Bromley T.	L0002	2020	Southern Ontario Public or Union Library	Hwy 60 P.O. Box 130	Douglas	Ontario	K0J1S0	http://www.k0j1s0.ca	366	2,589	5,518	0	0	5,518	19,999	652
Ajax	L0032	2020	Southern Ontario Public or Union Library	55 Harwood Avenue South	Ajax	Ontario	L1S2H8	ajaxlibrary.ca	25,897	373,000	83,286	71,368	0	154,654	6,073,106	0
Alberton Twp	L1098	2020	Ontario Library Service Contracting Municipality	3 Highway 611 South	Sc Townships	Ontario	P9A3M2	http://www.p9a3m2.ca	0	0	1,500	0	0	1,500	2,600	0
Alderville P.N.	L0390	2020	Southern Ontario First Nations Library	10835 County Road 2 P.O.	Roseville	Ontario	K0K2X0	http://alderville.ca	190	10,936	1,329	13,000	0	14,329	1,600	0
Alfred & Plantagenet	L0004	2020	Southern Ontario Public or Union Library	C.P. 10	Lefevre	Ontario	K0B1L0	www.alfred	1,550	89,609	13,936	1,729	0	15,665	251,330	0
Algonquins of Pikawaikan	L0301	2020	Southern Ontario First Nations Library	1657 A Mishomis Inamo	Golden Lake	Ontario	K0J1X0	http://algon	65	0	2,388	0	13,000	15,388	0	9,744
Alnwick/Haldimand	L0487	2020	Southern Ontario Public or Union Library	2363 County Road 23	Grafton	Ontario	K0K2G0	www.alnwick	751	0	13,478	3,273	0	16,751	227,220	0
Amaranth Twp	L0012	2020	Southern Ontario Contracting Municipality	374028 8th Line	Amaranth	Ontario	L9W0M6	www.amara	0	0	3,109	0	0	3,109	87,375	0
Archipelago Twp	L0345	2020	Ontario Library Service Contracting Municipality	9 James Street	Parys	Ontario	P2A1T4	www.thearc	0	0	15,072	0	0	15,072	16,124	0
Armstrong Twp	L0013	2020	Ontario Library Service Public or Union Library	C.P. 39	Earlton	Ontario	P0J1E0	http://www.p0j1e0.ca	260	0	2,817	0	0	2,817	53,332	1,694
Amprior	L0014	2020	Southern Ontario Public or Union Library	21 Madawaska Street	Amprior	Ontario	K7S1R6	www.ampri	5,104	0	13,439	824	0	14,263	287,134	133,034
Asphodel-Norwood	L0016	2020	Southern Ontario Public or Union Library	- P.O. Box 100	Norwood	Ontario	K0L2V0	www.apnl.o	565	0	7,218	1,375	0	8,593	144,127	0
Assignack Twp	L0017	2020	Ontario Library Service Public or Union Library	25A Spragge St.	Manitoulin	Ontario	P0P1N0	www.assign	643	3,370	3,456	27	0	3,483	41,685	0
Athens Twp	L0018	2020	Southern Ontario Public or Union Library	P.O. Box 309	Athens	Ontario	K0E1B0	www.athens	396	1,123	5,416	1,414	0	8,830	36,065	0
Atikameksheng Anist	L0424	2020	Ontario Library Service First Nations Library	25 reserve road	Whitfish	Ontario	P0M2M0	http://www.p0m2m0.ca	500	0	1,002	0	13,000	14,002	0	0
Atikokan	L0011	2020	Ontario Library Service Public or Union Library	214 Skyes St.	Atikokan	Ontario	P0T1C0	www.aplibra	2,382	0	9,991	461	0	10,452	0	0
Augusta Twp	L0010	2020	Southern Ontario Public or Union Library	R.R. #2	Brockville	Ontario	K6V5T2	augustalibra	1,728	12,399	12,591	706	0	13,297	121,986	0
Aundeck-Omni-Kanir	L1035	2020	Ontario Library Service First Nations Library	P.O. Box 21 R.R. #1	Little Curr	Ontario	P0P1K0	www.auro	41	0	873	0	13,000	13,873	0	0
Aurora	L0033	2020	Southern Ontario Public or Union Library	15145 Yonge Street	Aurora	Ontario	L4G1M1	www.auro	28,743	0	44,138	1,284	0	45,422	3,245,396	0
Awerees LSB	L0488	2020	Ontario Library Service Contracting LSB	399 A Hwy 17 N	Awerees	Ontario	P6A3K7	localservices	0	0	3,264	0	0	3,264	0	0
Baldwin Twp	L0061	2020	Ontario Library Service Contracting Municipality	P.O. Box 7095	McKerrow	Ontario	P0P1M0	www.townsi	0	0	1,694	0	0	1,694	0	0
Bancroft Town	L0062	2020	Southern Ontario Public or Union Library	P.O. Box 127	Bancroft	Ontario	K0L1C0	bancroftlib	1,377	0	8,514	353	0	8,867	142,655	37,926
Barrie	L0043	2020	Southern Ontario Public or Union Library	60 Worsley St	Barrie	Ontario	L4N0C2	library/barrie	36,402	169,619	107,501	164,307	0	271,808	8,307,148	188,662
Beausoleil First Nations	L0393	2020	Southern Ontario First Nations Library	150 Mlake Kegwin Milka	Christina	Ontario	L9M0A9	http://www.l9m0a9.ca	370	0	2,164	0	13,000	15,164	44,220	0
Beckwith Twp	L0035	2020	Southern Ontario Contracting Municipality	1702 9th Line Beckwith	Beckwith	Ontario	K7C3P2	www.twp.be	0	0	9,425	0	0	9,425	120,069	0
Belleville	L0081	2020	Southern Ontario Public or Union Library	254 Pinnacle Street	Belleville	Ontario	K8N3B1	www.belle	21,741	0	80,367	3,790	0	84,357	2,189,000	0
Big Grassy FN	L0394	2020	Ontario Library Service First Nations Library	P.O. Box 453	Morsion	Ontario	P0W1J0	www.biggra	260	0	758	0	13,000	13,758	0	0
Billigtigong Nishnaabe	L0456	2020	Ontario Library Service First Nations Library	P.O. Box 216	Heron Bay	Ontario	P0T1R0		60	0	1,249	0	13,000	14,249	0	0

## ONTARIO PUBLIC LIBRARY STATISTICS [BATCHGEO]

Copy & Paste CSV Column Values

Create a Geolocated “Pin Map”

3.



batchgeo

Features Pricing Mobile Support Log In Sign Up

### We are the fastest way to map your data

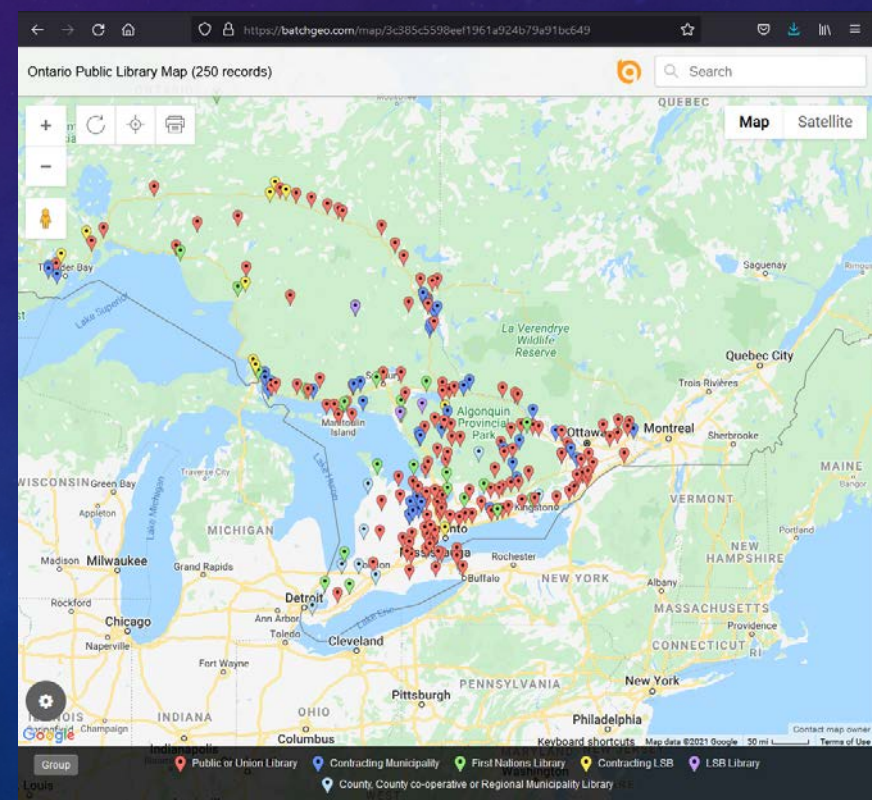
Example Address	City	State	Zip	Name	Phone Number	Group	URL
1 Crossgates Mall Road	Albany	NY	12203	Apple Store Cross Gates	(518) 869-3192	Example Group 1	http://www.apple.com/
Duke Rd & Walden Ave	Buffalo	NY	14225	Apple Store Walden Gall	(716) 685-2762	Example Group 2	http://www.apple.com/
630 Old Country Rd	Garden City	NY	11748	Apple Store Walk Whitman	(631) 425-1563	Example Group 3	http://www.apple.com/
160 Wall Whitman Rd	Huntington Station	NY	11748	Apple Store Walk Whitman	(631) 425-1563	Example Group 3	http://www.apple.com/
85-3 Carowest Center Drive	Singapore	NY	13290	Apple Store Carowest	(313) 425-8484	Example Group 2	http://www.apple.com/

**Copy & Paste or Drag Your File Here**

Don't forget to include header columns. Download our [Excel spreadsheet template](#), or try it out with our [sample data](#).

Set Options Map Your Data

4.



Ontario Public Library Map (250 records)

Map Satellite

Public or Union Library Contracting Municipality First Nations Library Contracting LSB LSB Library County, County co-operative or Regional Municipality Library

## ALBERTA PARKS & PROTECTED AREAS [SHP FILE]

Download Zipped SHP File

Extract Zipped SHP File

a.

**OPEN DATA**  
Parks and Protected Areas in Alberta

Summary Detailed Information

**DESCRIPTION**  
The Parks and Protected Areas dataset contains Protected Area boundaries for sites administered by Alberta Environment and Parks, Government of Alberta. National parks, because of their similar intent, are also included. Boundaries have been interpreted from written legal descriptions appended to Orders-in-Council. In case of discrepancy between the GIS data and the written legal description, the written legal description shall take precedence. Please note that this dataset replaces the following datasets: Ecological Reserve, Heritage Rangeland, National Park, Natural Area, Provincial Park, Provincial Recreation Area, Wilderness Area, Wilderness Park, and Wildland Park.

**UPDATED**  
July 22, 2021

**TAGS**  
-CANADA ALBERTA BOUNDARIES DOWNLOADABLE-DATA ECOLOGICAL-RESERVE ENVIRONMENT HERITAGE-RANGELAND NATIONAL-PARK NATURAL-AREA PARKS PROTECTED-AREA PROVINCIAL-PARK PROVINCIAL-RECREATION-AREA SOCIETY WILDERNESS-AREA WILDERNESS-PARK WILDLAND-PARK

**RESOURCES**  
[Parks and Protected Areas in Alberta - \(HTML\)](#)  
 MORE INFORMATION  
 DOWNLOADS: 136  
[Parks and Protected Areas in Alberta - \(XML\)](#)  
 MORE INFORMATION  
[Parks and Protected Areas in Alberta - \(SHP\)](#) (circled in green)  
 MORE INFORMATION  
 DOWNLOADS: 426  
[Parks and Protected Areas in Alberta - \(SHP\)](#)

b.

Extract To  
Users > RHYS~1.STE > AppData > Local > Temp > parks\_and\_protected\_areas\_alberta-1

Name	Type	Compressed size	Password ...	Size	Ratio	Date modified
Parks and Protected Areas Alberta	ArcGIS Layer	4 KB	No	24 KB	84%	7/27/2021 2:27 PM
Parks_Protected_Areas_Alberta	PRI File	1 KB	No	1 KB	37%	7/27/2021 1:42 PM
Parks_Protected_Areas_Alberta	SHP File	3,257 KB	No	5,631 KB	43%	7/27/2021 1:42 PM
Parks_Protected_Areas_Alberta	SHX File	3 KB	No	4 KB	32%	7/27/2021 1:42 PM
Parks_Protected_Areas_Alberta.cpg	CPG File	1 KB	No	1 KB	0%	7/27/2021 1:42 PM
Parks_Protected_Areas_Alberta.dbf	DBF File	46 KB	No	314 KB	86%	7/27/2021 1:42 PM
Parks_Protected_Areas_Alberta.sbn	SBN File	4 KB	No	5 KB	33%	7/27/2021 1:42 PM
Parks_Protected_Areas_Alberta.sbx	SBX File	1 KB	No	1 KB	45%	7/27/2021 1:42 PM
Parks_Protected_Areas_Alberta.shp	XML Docume...	10 KB	No	40 KB	77%	7/27/2021 2:11 PM

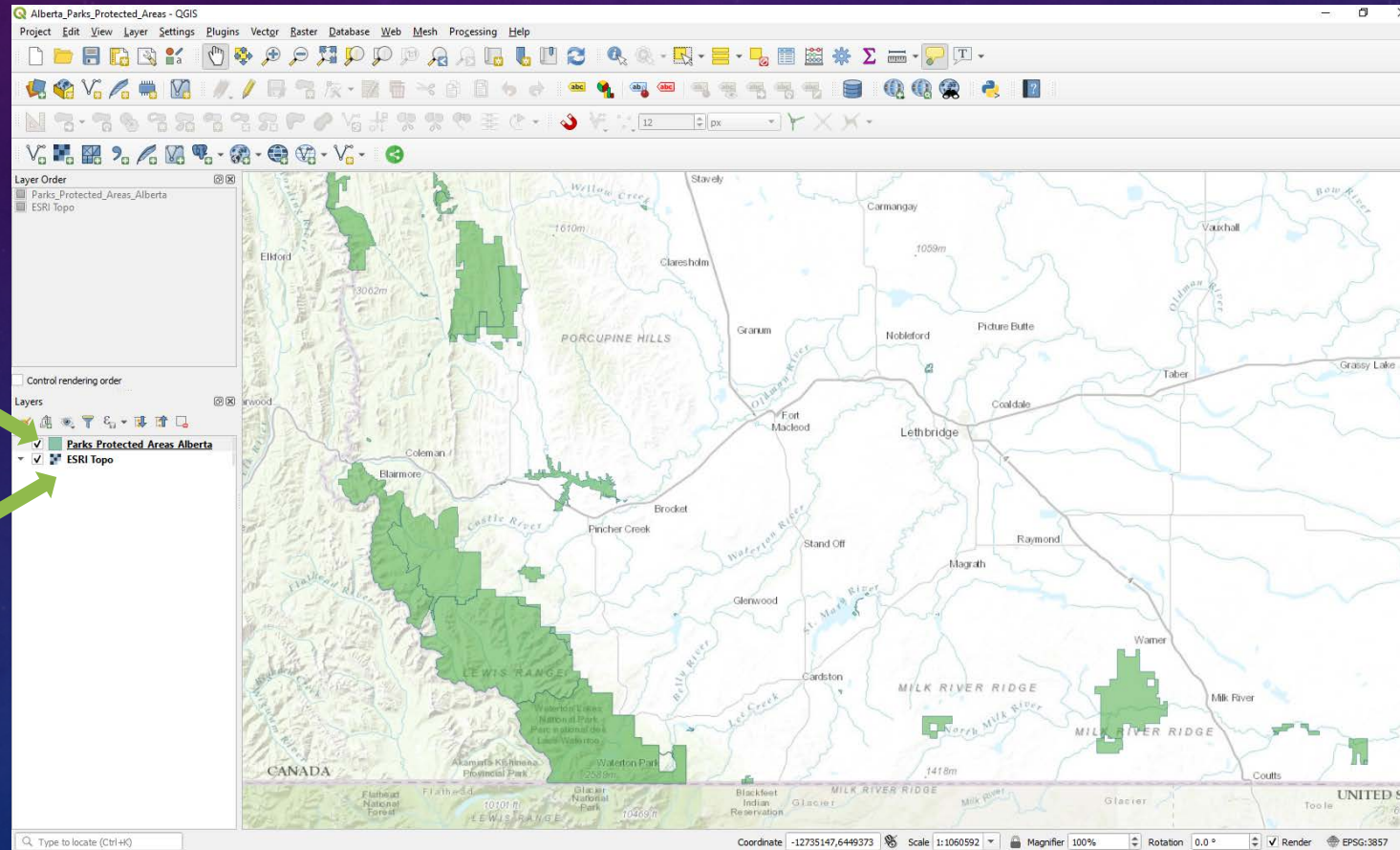


## ALBERTA PARKS & PROTECTED AREAS [QGIS]

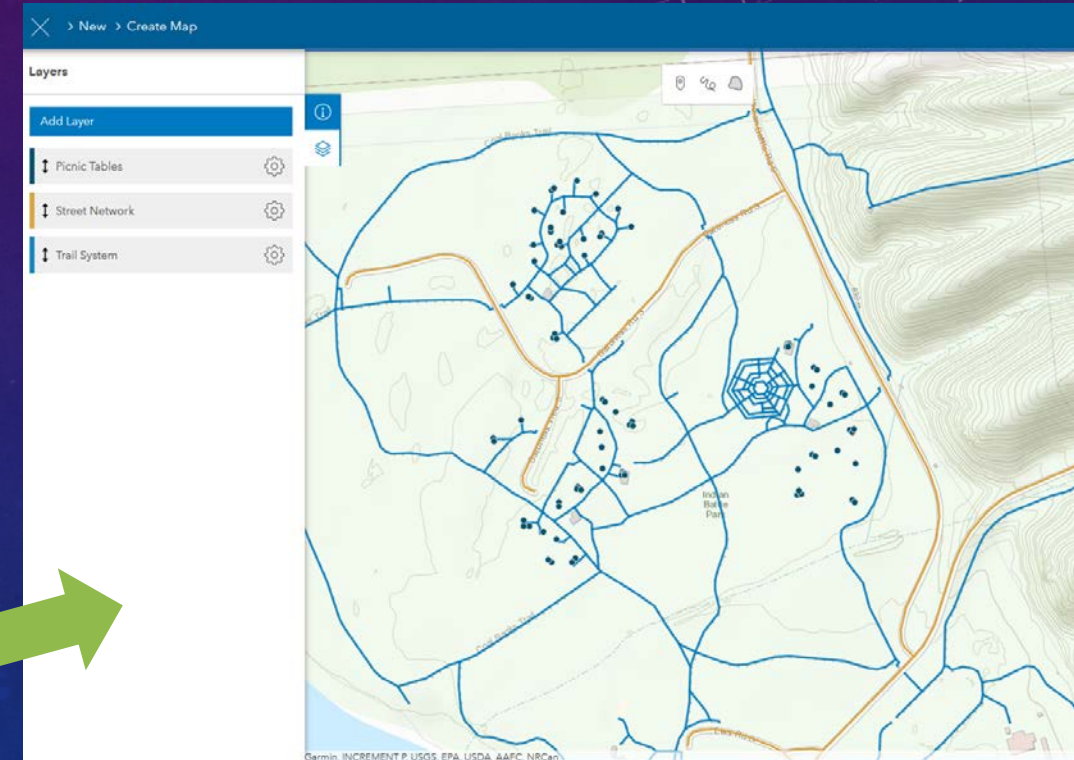
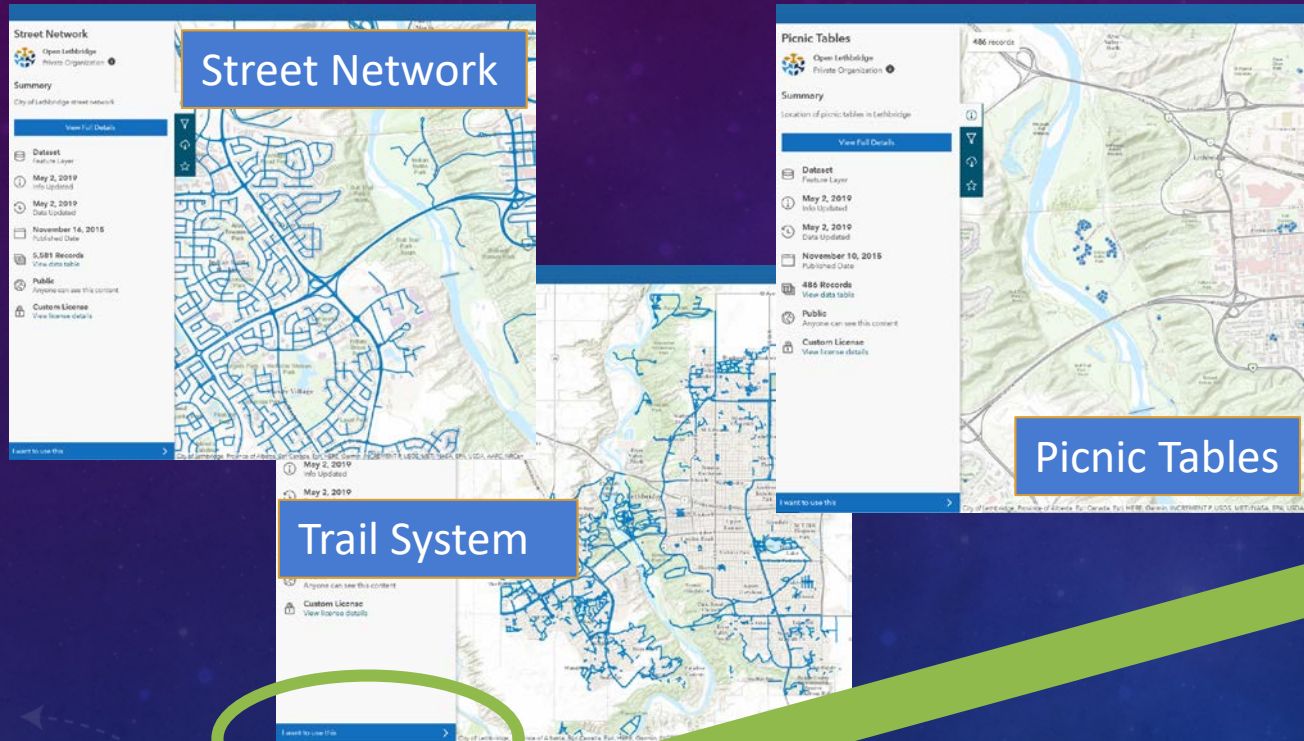
**C.** Using QGIS, Add Shapefile Layer & Basemap to Create Custom Map

Shapefile Layer

Basemap



## LETHBRIDGE STREETS, TRAILS & PICNIC TABLES [ONLINE VIEWER]



[Link to Web Map](#)

Download Data or Use the Built-in Online Viewer Tools to Combine Data Layers

## LETHBRIDGE LAND PARCELS [AUTODESK VIEWER]

i.

City of Lethbridge  
**OpenData** CATALOGUE

### Parcels West Side

Open Lethbridge  
Private Organization

**.DWG**

[Open Document](#)

**Summary**

Land parcels located in West Lethbridge.

Land parcels located in West Lethbridge.

This data is intended for use in computer-aided design software applications such as AutoCAD and MicroStation.

**File Type:** DWG  
**Update Frequency:** Quarterly  
**Last Update:** June 2, 2021

Looking for something else? See other documents nearby

**Details**

- Web Link**  
Document Link
- June 2, 2021**  
Date Updated
- November 12, 2015**  
Published Date
- 52 B**  
Document file size
- Public**  
Anyone can see this content
- Custom License**  
View license details
- Relevant Area**

ii.

AUTODESK VIEWER > West.dwg

Views Layers Properties Settings Comments Print

Views

- Model
  - 2D View
- Sheets
  - Layout1

Home Fit Pan Zoom Measure Markup

Download Zipped .DWG File & Extract

View in CAD Software or Free Viewer

# TOOLS FOR MAKING USE OF USING OPEN DATA [EXAMPLES]

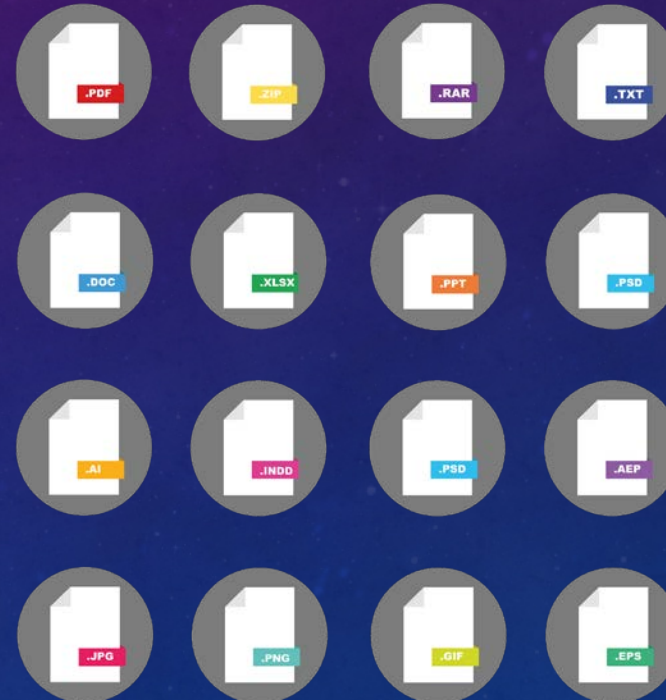


[Datawrapper Example 1](#)

[Datawrapper Example 2](#)

# FILE FORMATS FOUND IN OPEN DATA PORTALS

- Formats for Standard Datasets
  - CSV, JSON, Excel
- Formats for Geospatial Datasets
  - GeoJSON, Shapefile, KML
- Other Formats
  - DWG, TIFF / GeoTIFF, ECW, MrSID



[What the @#! is a Shapefile? A beginner's guide to open data file formats \[Toronto Open Data\]](#)





# FOR ADDITIONAL INFORMATION

LEARN MORE ABOUT OPEN GOVERNMENT DATA RESOURCES & HOW TO MAKE USE OF THEM



# OPEN DATA & OPEN GOVERNMENT RESOURCES

- [Datalibre.ca](https://datalibre.ca) – Discussion of issues around access to government data in Canada.
- [Canadian Open Data Society](https://open.canada.ca/en/open-data)
  - [Past Webinars \(Recordings\)](#): “A Year of COVID-19 Open Data”, “Introduction to the Beauties of Data Visualization.”
- [Open Knowledge Foundation](https://www.openknowledgefoundation.org/) [UK] - Not-for-profit organization advocating for non-personal information is open, free.
- [Open Data Handbook](#) - Guides, case studies and resources for government & civil society on the "what, why & how" of open data.

# TOOLS & TRAINING FOR MAKING USE OF OPEN DATA

- [Open Data Tools](#) [Open Knowledge Foundation] – Visualization, Data, Source Code, etc.
- [School of Data Courses](#) [Open Knowledge Foundation] - Series of independent learning modules (Fundamentals, Cleaning, Exploring, Extracting, etc.)
- [Data.Europa Academy](#) [Publications Office of European Union]
- [QGIS Training Tutorials: Using Spatial Data in Geographic Information Systems](#) [Statistics Canada]
- [Creating Maps in QGIS: A Quick Guide](#) [U. of Waterloo]
- [Resources.data.gov](#) [U.S. Gov't] – Repository of policies, tools, case studies. Aimed at those providing open data.
- [Open Government Learning Hub](#) [Gov't of Canada]

# CONCLUDING THOUGHTS

- I've only shown a handful of Open Government Data portals as examples -- there are many more!
- Discovery tools used for hosting and finding data sets are similar but different.
- Some portals allow users to peer into datafiles using tools built into the interface.
- Using **downloaded** data requires some knowledge of software tools for viewing and analyzing content.
- Access to Open Government Data is ever-improving and available datasets are growing in number.
- Try digging into Open Data yourself!

## DIGGING INTO DATA



# QUESTIONS?

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