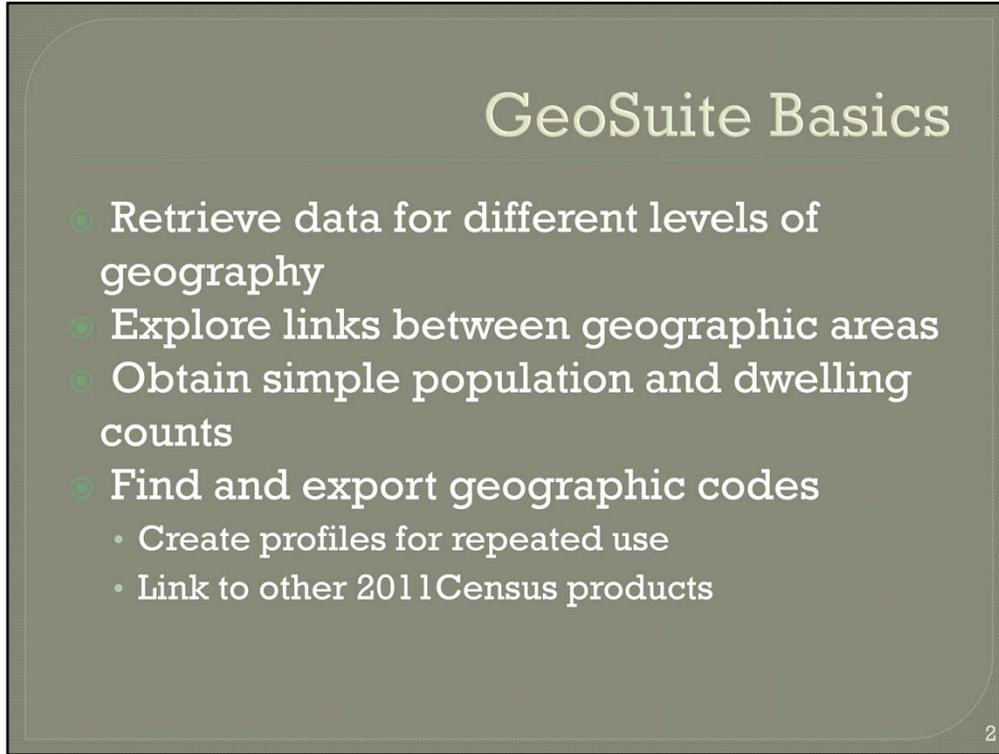


GeoSuite 2011

Atlantic DLI Training
April 26, 2012
Carolyn DeLorey



A slide titled "GeoSuite Basics" with a list of five bullet points. The slide has a dark green background with a lighter green border and a small number "2" in the bottom right corner.

GeoSuite Basics

- Retrieve data for different levels of geography
- Explore links between geographic areas
- Obtain simple population and dwelling counts
- Find and export geographic codes
 - Create profiles for repeated use
 - Link to other 2011 Census products

2

GeoSuite is a tool that allows you to retrieve data for various levels of geography. It's ideal if you want to match different levels, especially when the lower level is identified only by code (no name). For example, finding all of the dissemination areas within a census subdivision.

You can obtain simple population and dwelling count information down to the DA level.

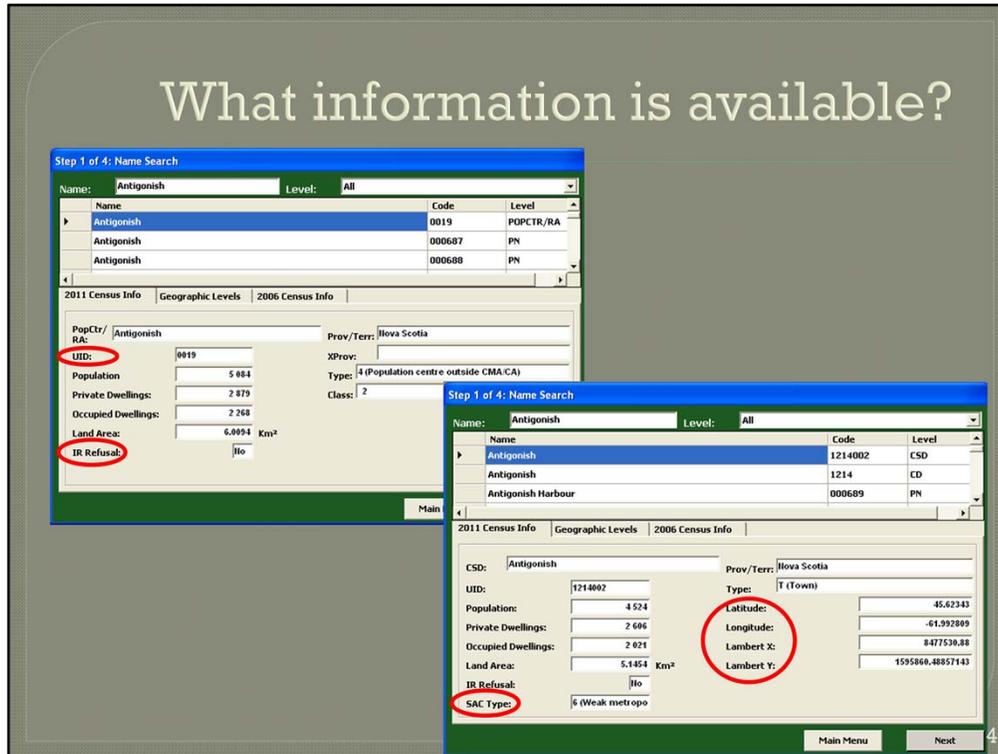
And you can find and export geographic codes which can be used to create a profile for repeated use and can be linked to other Census products.

Includes the following levels of 2011 Census standard geography:

- Canada (CAN)
- province and territory (PR)
- economic region (ER)
- census division (CD)
- census consolidated subdivision (CCS)
- census subdivision (CSD)
- designated place (DPL)
- federal electoral district (FED) (2003 Representation Order)
- census metropolitan area (CMA), census agglomeration (CA) and census metropolitan influenced zone (MIZ)
- census tract (CT)
- population centre (POPCTR) and rural area (RA)
- dissemination area (DA)
- dissemination block (DB)

3

The type of data that's available is dependent on the geographic level chosen.



These two screenshots provide an example of the types of information that is available and the difference depending on geographic level.

The top/left shows POPCTR/RA level, and the data available for that level include: population and dwelling counts, land area, UID (unique identifier – number used to identify the geographic area for data storage, retrieval, display, and to link areas found in GeoSuite to other 2011 Census products)
IR (Indian Reserve) Refusal (if YES, provides an explanation for missing data in a given area)

The bottom/right shows the CSD (census subdivision) level. Addition of point coordinates and the SAC (statistical area classification: which is used to group census subdivisions according to what they are a component of, and used for data dissemination purposes)

2006 Census tab provides corresponding information for the same area from the 2006 Census.

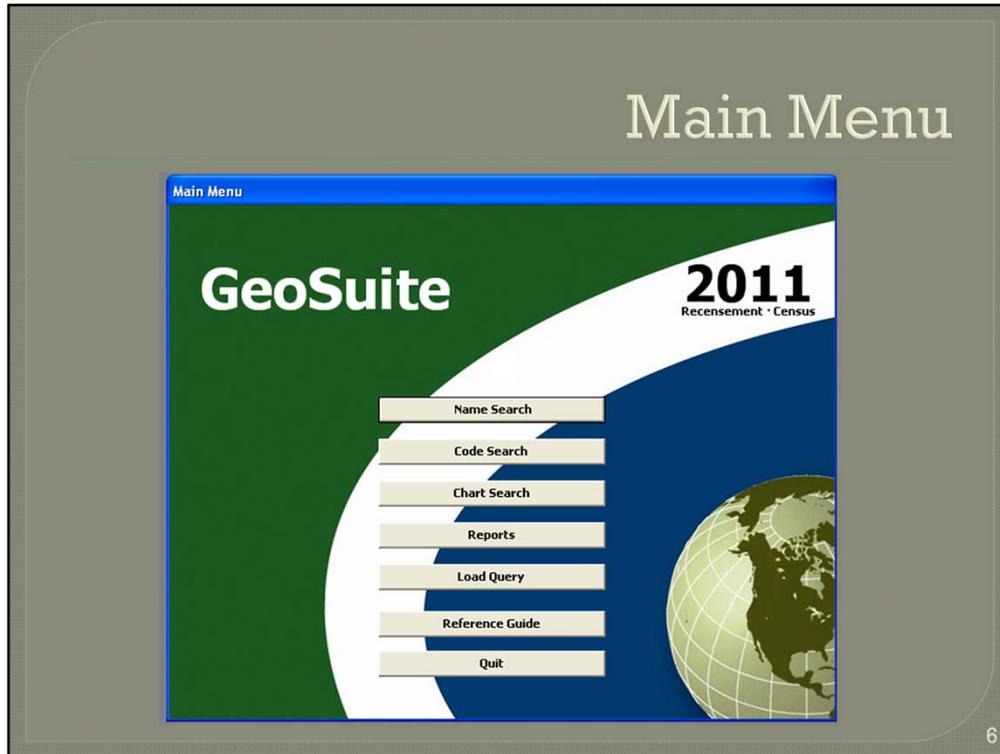


The GeoSuite Reference Guide provides an excellent overview of the product. It takes you step by step through the various functions, including sample searches. The Correspondence Files Reference Guide provides information that allows you to compare between the 2006 and 2011 Census years.

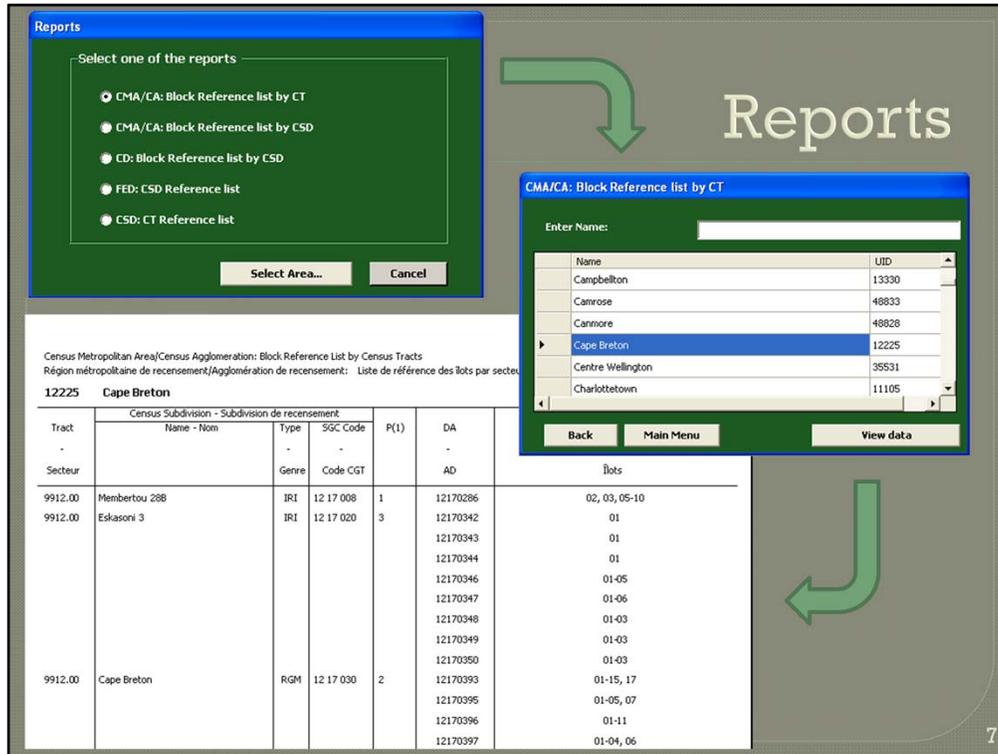
Embedded help:

Help on the menu bar provides a list of available topics.

Help button on the tool bar opens to the help page for your current screen.



The GeoSuite Reference Guide is also available from the Main Menu.
The Load Query allows you to retrieve previously saved queries.
There are 3 types of searches on the Main Menu: Name, Code, and Chart.
There are 5 types of reports (formerly print publications of Statistics Canada).



Step 1: Choose the report you want.

- Lists the 5 reports available:

- CMA/CA: Dissemination block reference list by CT (a list of CMAs and CAs that contain census tracts is displayed).
- CMA/CA: Dissemination block reference list by CSD (all CMAs and CAs are available).
- CD: Dissemination block reference list by CSD (all CDs are displayed with their codes to differentiate those with the same name).
- FED: CSD reference list (all FEDs are listed).
- CSD: CT reference list (all CSDs in a CMA or CA are listed, but not all will contain census tracts).

Step 2: Choose the place name from the list (varies depending on the level of geography)

Step 3: View data: opens the report

Name Search: Step 1

Name	Code	Level
Nova Scotia	12	PR
Nova Scotia Residual Area	129912	DPL
Nova Scotia Rural Area	9912	POPCTR/RA

2011 Census Info | Geographic Levels | 2006 Census Info

Prov/Terr: Nova Scotia
UID: 12
Population: 921 727
Private Dwellings: 442 155
Occupied Dwellings: 390 279
Land Area: 52 939.4351 Km²
IR Refusal: No

Main Menu Next

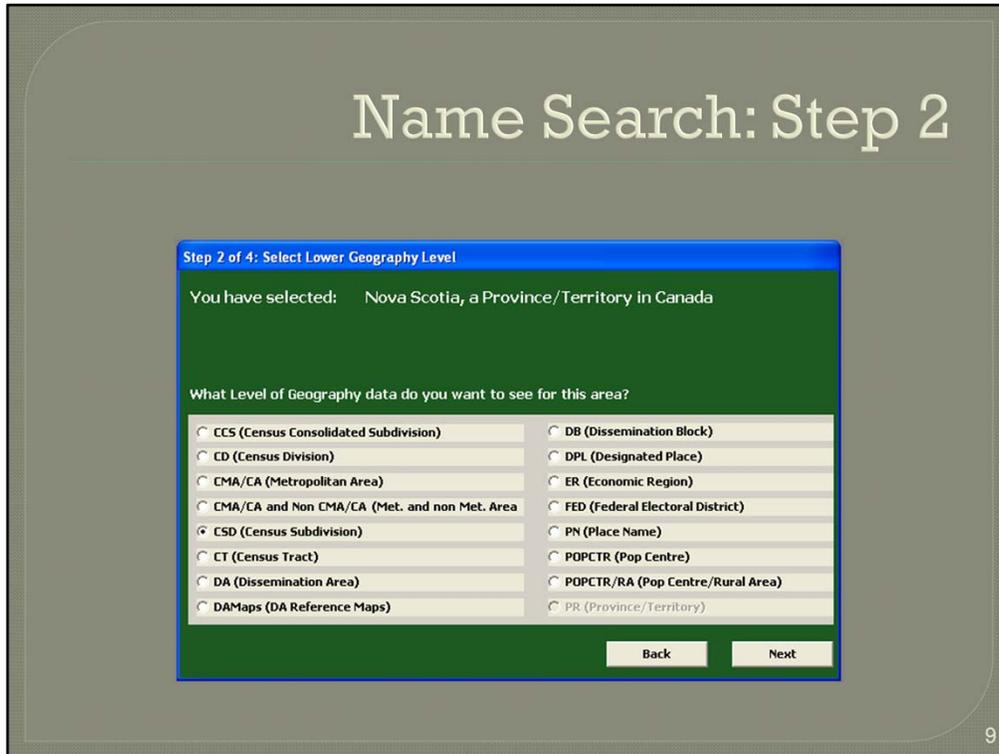
8

Name search has 4 steps.

Step 1: Type in Name of place.

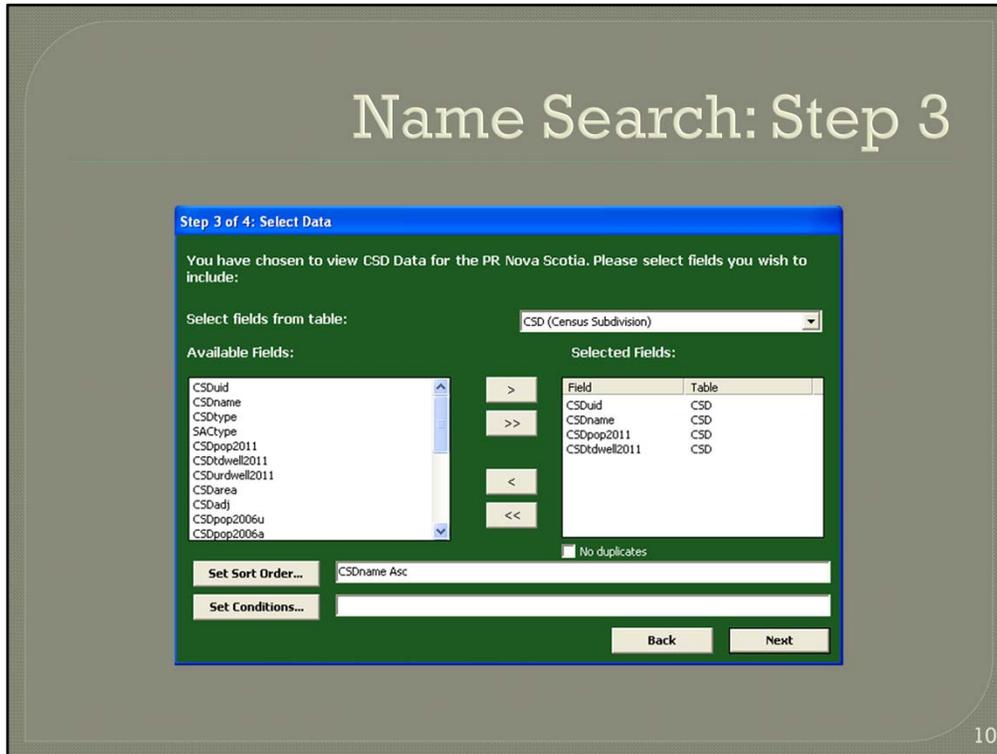
Option to choose level of geography at top, or you can scroll through list.

Once you select the area, click Next.



Step 2: allows for further refinement of initial search. Options available in Step 2 depend on the initial search. Only levels of geography that are lower than the initial geographic area will be displayed as an option. The rest will be grayed out.

Name Search: Step 3



Step 3: Select the fields you want from the list on the left, and move them to the right. (UID, name, pop2011, dwelling count2011)

Option to **set the sort order** to determine the order of the fields displayed in your final report.

You have the option to **set conditions**: For example if you want to see only the CSDs with a specific population range.

Name Search: Step 4

The screenshot shows the GeoSuite 2011 interface. The main window displays a table with 99 records of CSD data for Nova Scotia. The table has four columns: CSDuid, CSDname, CSDpop2011, and CSDtdwell2011. The records are sorted alphabetically by place name. A 'Calculate Statistics' dialog box is open, showing statistics for the 'CSDpop2011' field.

CSDuid	CSDname	CSDpop2011	CSDtdwell2011
1211011	Anherst	9717	4811
1205008	Annapolis Royal	481	323
1205004	Annapolis, Subd. A	6008	3307
1205009	Annapolis, Subd. B	3650	1868
1205014	Annapolis, Subd. C	5016	2434
1205001	Annapolis, Subd. D	2903	1811
1214002	Antigonish	4524	2606
1214001	Antigonish, Sub...	8253	4082
1214006	Antigonish, Sub...	6439	2773
1202001	Argyle	8252	3798
1201001	Barrington	6994	3509
1203009	Bear River (Part) 6	102	44
1205002	Bear River (Part) 6	0	0
1205006	Bear River 6B	0	1
1209037	Beaver Lake 17	23	5
1207004	Berwick	2454	1024
1205012	Bridgetown	949	487

Calculate Statistics

Field: CSDpop2011

Count: 99
 Sum: 921727
 Average: 9310.37
 Maximum: 390096
 Minimum: 0
 Standard Deviation: 9153.37

Buttons: Print Table, Calculate, Export, Save Query

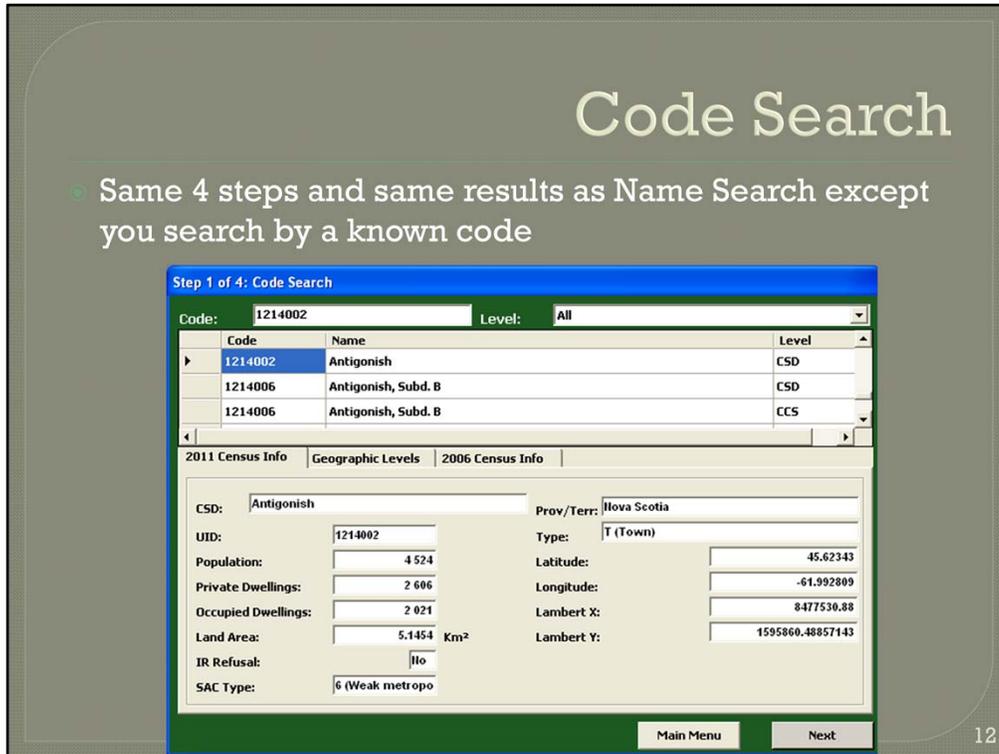
Step 4: Data results: with 4 fields selected, and in alphabetical order by place name the order was set. (default is in order of UID)

Options for resulting table (menu bar):

1. Print Table
2. Calculate: shows statistics for selected fields
3. Export (for use in another program – spreadsheet, GIS software)
4. Save Query (button at bottom of screen)

Code Search

- Same 4 steps and same results as Name Search except you search by a known code



The **Code Search** is very similar to the Name Search. Which of these methods you choose depends on whether you know the name of the geography you want or the Statistics Canada geographic code.

These two searches are similar in look, and both require the same 4 step process.

Chart Search

Chart Search hierarchy diagram showing levels: PROD/TERR, CMA/CA, CMA/CA And Non CMA/CA, CT, POPCTR, POPCTR / B.A, DA, DPL, CCS, CD, ER, FED, DB.

PR		CSD		Relative: 99			
Record counts Total: 5253							
CSDid	CSDname	CSDtype	SAtype	CSDpop2011	CSDdwell2011	CSDdwell2011	CSDarea
1201001	Barrington	MD	6	6994	3509	3025	631.9436
1201004	Clark's Harbour	T	6	820	422	369	2.9008
1201006	Shelburne	MD	6	4408	2752	1926	1818.4858
1201008	Shelburne	T	6	1686	903	797	9.0038
1201009	Lockeport	T	6	588	321	257	2.3208
1202001	Argyle	MD	6	8252	3798	3382	1528.0106
1202004	Yarmouth	MD	6	10105	4918	4202	585.7533
1202006	Yarmouth	T	6	6761	3539	3144	10.5591
1202040	Yarmouth 33	IRI	7	157	62	60	0.3184
1203001	Clare	MD	6	8319	4478	3641	852.8226
1203004	Digby	MD	6	7463	4376	3280	1655.8814
1203006	Digby	T	6	2152	1117	1025	3.1365
1203009	Bear River (Part) 6	IRI	7	102	44	44	3.3874
1204009	Ponhook Lake 10	IRI	7	10	5	5	1.0144
1204010	Queens	RQM	6	10917	6427	4798	2392.8494
1204015	Wolfe Is	IRI	7	33	14	12	4.769
1205001						1242	1978.7031
1205002						0	3.0925
1205004						2713	614.204
1205006						1	0.2333
1205008						276	2.0397
1205009						1541	373.6684
1205012						440	3.5434
1205014						2161	207.5538
1205016						846	5.4385
1206001						10725	1759.4434
1206004						3795	13.6036
1206006	Lunenburg	T	5	2313	1155	1039	4.0095
1206008	Mahone Bay	T	6	943	518	444	3.1287
1206009	Chester	MD	5	10599	6169	4761	1122.2207
1206011	Gold River 21	IRI	7	77	27	27	2.8002
1206014	Pennal 19	IRI	7	22	6	6	0.4451

Find

Fields:

Look For:

Search Within Fields

Find Close

In the **Chart Search**, you select the level of geography you want from the chart on the left. It allows you to select various levels of geography simultaneously, all the while displaying the geographic hierarchy.

Each level selected shows up as a tab across the top of the table. The higher level chosen determines the results in the lower level.

You can also search fields rather than scrolling through.

Chart Search (con't)

PR	CSD	DA					
Record counts Total: 13			Relative: 13				
PRcode	PRname	PRpop2011	PRdwell2011	PRurdwell2011	PRarea	PRadj	PRpop2006u
10	Newfoundland a...	514536	250275	208842	370510.7593	0	505469
11	Prince Edward Is...	140204	66943	56462	5685.7297	0	135851
12	Nova Scotia	921727	442155	390279	52939.4351	0	913462
13	New Brunswick	751171	348465	314007	71377.1843	0	729997
24	Quebec	7903001	3685926	3395343	1356547.021	0	7546131
35	Ontario	12851821	5308785	4887508	908607.6714	0	12160282

PR	CSD	DA					
Record counts Total: 5253			Relative: 99				
CSDcode	CSDname	CSDtype	SAtype	CSDpop2011	CSDdwell2011	CSDurdwell2011	CSDarea
1201001	Barrington	MD	6	6994	3509	3025	631.9436
1201004	Clark's Harbour	T	6	820	422	369	2.9008
1201006	Shelburne	MD	6	4408	2752	1926	1818.4858
1201008	Shelburne	T	6	1686	903	797	9.0038
1201009	Lockeport	T	6	508	321	257	2.3208
1202001	Argyle	MD	6	8252	3798	3382	1528.0106
1202004	Yamouth	MD	6	10105	4918	4202	585.7533
1202006	Yamouth						
1202040	Yamouth 33						
1203001	Clare						
1203004	Digby						
1203006	Digby						
1203009	Bear River (Part						
1204009	Ponhook Lake 1						

PR	CSD	DA						
Record counts Total: 56204			Relative: 12					
Dcode	Dname	Dpop2011	Ddwell2011	Durdwell2011	Darea	Dadj2011	Dplanx	Dplanym
12010039		657	451	295	395.2636	0	8319460.38821...	1265665.14906...
12010041		449	209	185	44.5212	0	8312583.78665...	1262918.26983...
12010042		476	228	202	3.2141	0	8314115.94857...	1258538.96857...
12010043		634	273	257	81.3413	0	8307239.73486...	1258516.8806174
12010044		975	468	432	37.0706	0	8309218.39834...	1253466.46410...
12010045		473	220	204	12.2663	0	8302441.98285...	1253121.71428...
12010046		401	191	170	6.9187	0	8310609.26	1250798.40857...
12010047		442	216	206	3.4264	0	8315249.29428...	1252102.66571...
12010048		624	282	268	12.6894	0	8316878.49793...	1249036.26937...
12010049		525	277	240	7.299	0	8318894.73536...	1248661.83883...
12010051		671	286	275	11.6874	0	8317458.39757...	1252863.26723...
12010052		667	408	291	16.2456	0	8321301.44296...	1256745.91083...

The hierarchical search is meant to display all information within a given context. The tables which are displayed will vary depending on previous geographical areas selected.

Link to Topic-Based Tabulations

GeoSuite
2011 Census

GéoSuite
Recensement de 2011

English

Français

Beyond 20/20

Data products

Your guide to statistical information from the census

These products provide statistical information about the population, households, dwelling and families as measured in the census. For a detailed description of data products, refer to the [Preview of Census Products and Services](#). **Note:** All 2011, 2006 and 2001 census standard data products and various 2011, 2006 and 2001 census geography products are available for free to the public.

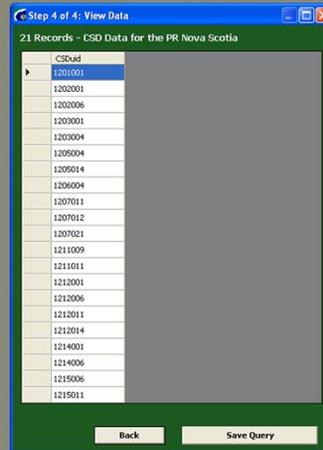
Highlight tables Highlight tables : Provide information highlights by topic via key indicators for various levels of geography.	Census Profile Census Profile : Provides a statistical overview of various geographic areas based on a number of detailed variables.
Topic-based tabulations Topic-based tabulations : Provides a portrait of Canada based on the various census topics. They range in complexity and are available for various levels of geography.	Data visualization Visual Census : Facilitates the analysis and comparison of the changing demographic and socio composition of selected geographic areas across census years.

15

Example of how you can link to other Statistics Canada Products: Topic Based Tabulations. (2011 topic based tabulations are not available, so I used 2006 for this example.)

1. Build a profile of UIDs in Geosuite

CSDs in NS with a population between 5000 and 10000 people



The screenshot shows a window titled "Step 4 of 4: View Data" with a subtitle "21 Records - CSD Data for the PR Nova Scotia". The window contains a table with a single column labeled "CSDuid". The records are as follows:

CSDuid
1201001
1202001
1202006
1203001
1203004
1205004
1205014
1206004
1207011
1207012
1207021
1211009
1211011
1212001
1212006
1212011
1212014
1214001
1214006
1215006
1215011

At the bottom of the window, there are two buttons: "Back" and "Save Query".

16

Similar to the Name Search shown previously:

- NS, CSDs, set condition of population between 5000 and 10000 people.
- Results: 21 CSDs
- At the View Data step, export the data and save the file.

2. Download a topic-based tabulation in B2020

The screenshot shows the Statistics Canada website interface. At the top, there is a navigation bar with 'Français', 'Home', 'Contact Us', and 'Help'. Below this, the 'Census' section is active, and the '2011 Census' is selected. The 'Data products' section is expanded, showing 'Topic-based tabulations'. A list of data topics is displayed, with 'Education' selected. The 'Major field of study' section shows search results for 'Education', with the 'B2020' format option highlighted in a red circle.

On the Statistics Canada website, select Census, and go to Data products, Topic-based tabulations.

Select the topic of interest (Education: Major field of study)

Choose the file of interest (be sure it has the appropriate level of geography)

3. Import your saved profile to B2020

Geography	Total - Major field of stu...	No postseconda...	Education	Visual and performing ar...	Humanities	Social and behavioural s...
Barrington (1201001) MD 00000	6,015.0	4,395.0	140.0	15.0	35.0	85.0
Argyle (1202001) MD 00001	7,205.0	4,185.0	260.0	45.0	70.0	110.0
Yarmouth (1202006) T 00000	5,750.0	3,305.0	195.0	40.0	145.0	155.0
Clare (1203001) MD 00000	7,470.0	4,295.0	495.0	60.0	75.0	145.0
Digby (1203004) MD 00000	6,700.0	4,130.0	215.0	35.0	150.0	160.0
Annapolis, Subd. A (1205004) SC 01000	5,375.0	2,960.0	280.0	45.0	110.0	110.0
Annapolis, Subd. C (1205014) SC 00000	4,250.0	2,150.0	110.0	50.0	65.0	150.0
Bridgewater (1206004) T 00000	6,720.0	3,680.0	285.0	60.0	70.0	185.0
Kings, Subd. C (1207011) SC 00000	6,780.0	3,475.0	220.0	45.0	150.0	180.0
Kentville (1207012) T 00010	4,715.0	1,940.0	270.0	55.0	120.0	205.0
Kings, Subd. D (1207021) SC 00000	4,650.0	2,450.0	190.0	35.0	145.0	125.0
Cumberland, Subd. C (1211009) SC 01010	4,675.0	2,670.0	190.0	30.0	40.0	120.0
Amherst (1211011) T 00000	7,745.0	4,410.0	365.0	55.0	95.0	325.0
Pictou, Subd. A (1212001) SC 01010	5,500.0	2,580.0	340.0	25.0	45.0	115.0
Pictou, Subd. B (1212006) SC 01010	4,935.0	2,545.0	170.0	45.0	50.0	95.0
Pictou, Subd. C (1212011) SC 01010	7,625.0	3,985.0	230.0	25.0	120.0	225.0
New Glasgow (1212014) T 01000	7,745.0	3,935.0	370.0	55.0	140.0	255.0
Antigonish, Subd. A (1214001) SC 00000	6,355.0	2,665.0	385.0	110.0	250.0	270.0
Antigonish, Subd. B (1214006) SC 01010	5,240.0	2,530.0	265.0	50.0	110.0	115.0
Inverness, Subd. B (1215006) SC 00000	4,405.0	2,345.0	250.0	20.0	70.0	60.0
Inverness, Subd. A (1215011) SC 01010	5,010.0	2,875.0	230.0	70.0	95.0	95.0

Once you import your saved profile of UIDs, you can view the data from the topic-based tabulation for the specific areas you chose.

New Terms in 2011

Previous Term	New Term	
Urban Area Population \geq 1000 Population density \geq 400/km ²	Population Centre	
	Small Population Centre	1,000 – 29,999
	Medium Population Centre	30,000 – 99,999
	Large Population Centre	\geq 100,000

- New attribute: **POPCTRRAc**lass
 - Population centre and rural area class

Previous Term	New Term	
Locality	Place Name	
	Name and location information on local place names	
	Includes: Census subdivisions (municipalities), designated places, population centres, and some local places	

Format

- Not available on CD-ROM
- Free download from Statistics Canada
- <http://www12.statcan.gc.ca/census-recensement/2011/geo/ref/geosuite-eng.cfm>

GeoSuite

GeoSuite is a tool used for data retrieval, query and tabular output. GeoSuite allows users to explore the links between all standard levels of geography and to identify geographic codes, names, unique identifiers, and, where applicable, types, as well as land area and population and dwelling counts.

A reference guide is included.

To download this product to your computer², please select from the choices below:

Year

2011 2006 2001

Language

English French

