

IMPLAN

# Introducing Canada Sub- Provincial Data

IMPLAN Webinar Series





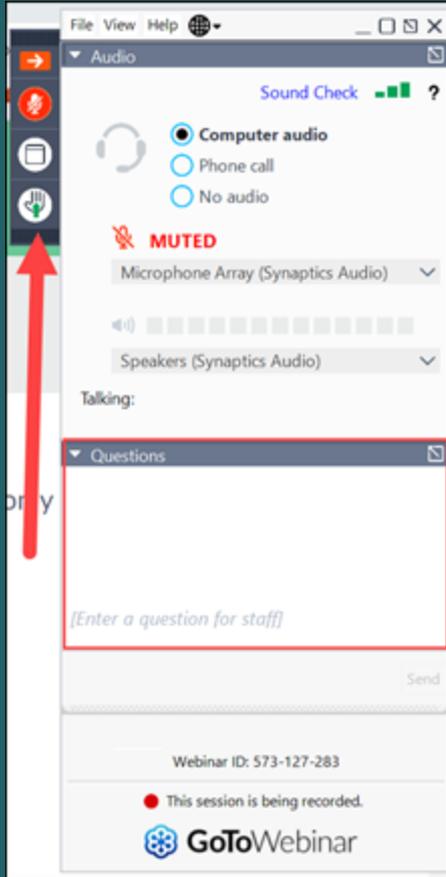
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International Economic  
Data Developer



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Director of Education  
Services



# Have Questions?

Post them in the Questions box!

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# 1

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## Overview of IMPLAN Canada Data

# Geographic Coverage

National Canada  
10 Provinces and 3 Territories



# Geographic Coverage

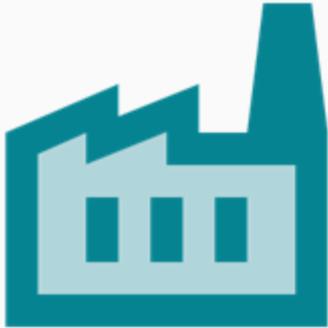
National Canada

10 Provinces and 3 Territories

**76 Economic Regions**



# Industry Coverage



- 235 Industries
  - 1-10 Agriculture, Forestry, Fishing & Hunting
  - 11-24 Mining, Quarrying, and Oil & Gas Extraction
  - 25-27 Utilities
  - 28-36 Construction
  - 37-118 Manufacturing
  - 119-127 Wholesale Trade
  - 128-141 Retail Trade
  - 142-154 Transportation & Warehousing
  - 155-223 Services
  - 224-234 Government Services
  - 235 Taxes on Products net of Subsidies (TOPS)- for accounting purposes only

# TOPS Industry

Event Tag: No matches found

Aggregation Scheme: 235 Unaggregated Canada

Output: \$5,062,951,292.90, \$42,882,243.98, \$13,287,473.26, \$5,119,121,010.14

Impact: 1, 2

General Governments Total: \$392,969,594, \$6,247,640, \$401,951,05

Percentage of Total Output: 12776.79%, 73.55%, 1.22%, .56%, 1.70%, 1.56%, 1.32%, 1.98%, .29%, .07%, .60%, 9.58%, .41%, .13%, 1.17%, .33%, .17%, 1.97%

Display Description	Industry Total Output	Percentage of Total Output
Sand, gravel, clay, and ceramic and ...	\$39,679,491.80	1.22%
Support activities for mining	\$22,920,950.31	.56%
<b>Taxes on products net of subsidies</b>	<b>\$286,174,045.29</b>	<b>1.70%</b>
Owner-occupied dwellings	\$622,402,359.8	1.56%
Petroleum refineries	\$105,682,864	1.32%
Repair and maintenance (except au...	\$92,789,744.33	1.98%
Construction	\$108,028,927.20	.29%
Mining services (except ...	\$987,204.61	.07%
Sawmilling	\$688,251.46	.60%
Other activities of ...	\$27,982,290.58	9.58%

TOPS is included in every other Industry's production function for accounting purposes.

# Other Key Features

- Monetary values in Canadian dollars (CAD)
- Complete Environmental coverage
- Reported in basic prices
- Released annually



# 2

## Understanding The New Economic Regions

# Economic Regions



A grouping of complete census divisions created as a standard geographic unit for analysis of regional economic activity.

# Economic Regions



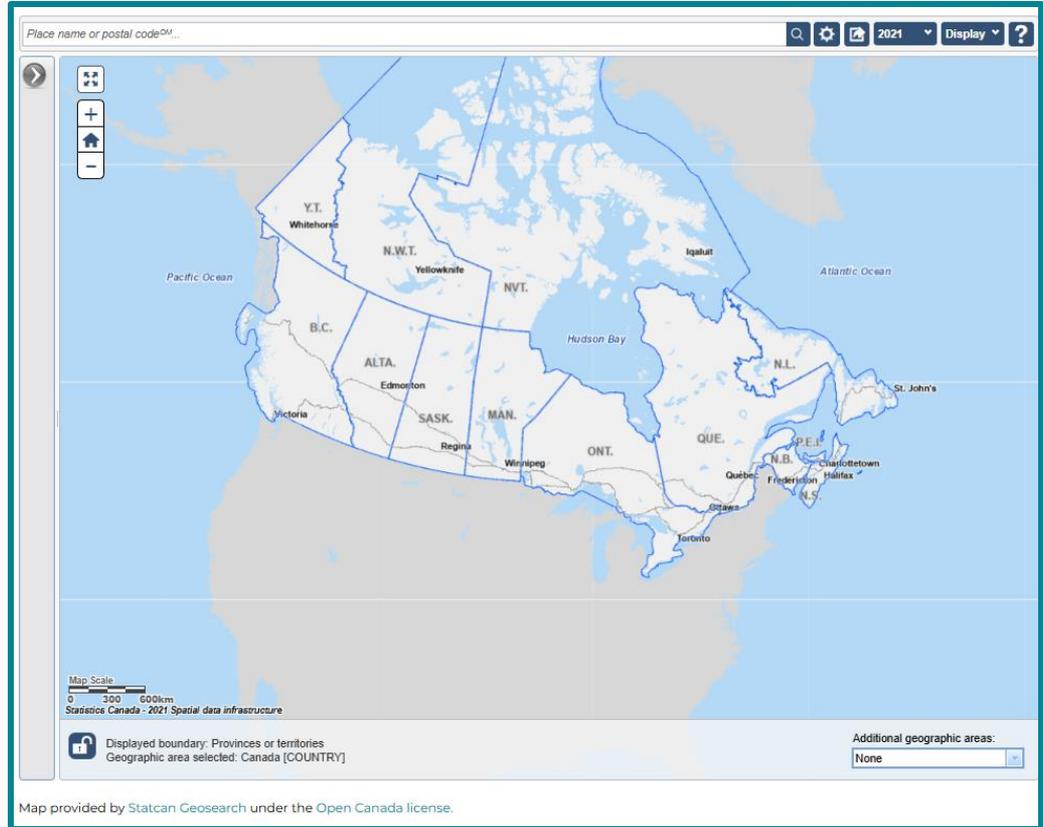
Province/Territory	# of ERs
Alberta	8
British Columbia	8
Manitoba	8
New Brunswick	5
Newfoundland and Labrador	4
Nova Scotia	5
Ontario	11
Quebec	17
Saskatchewan	6
PEI & Territories (NW Territories, Nunavut, Yukon)	1 each
Total	76

# CDs and CMAs

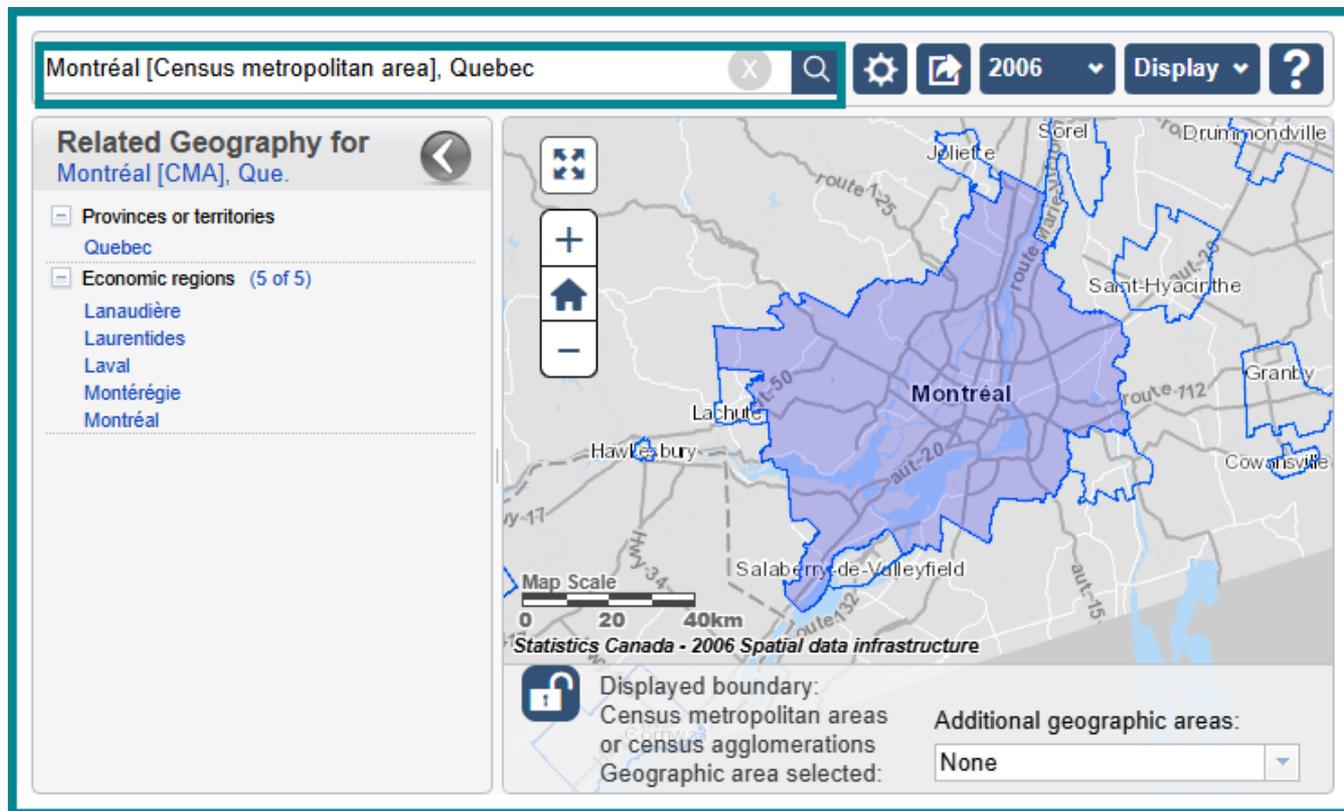
<b>Census Division (CD)</b>	Grouping of neighboring municipalities established by provincial or territorial law.	Greater Vancouver in British Columbia
<b>Census Metropolitan Area (CMA)</b>	Municipalities situated around a major urban core (population $\geq 100,000$ ).	Toronto, Montreal, Vancouver
<b>Economic Region (ER)</b>	A grouping of complete census divisions.	Greater Montreal in Quebec

# Economic Regions

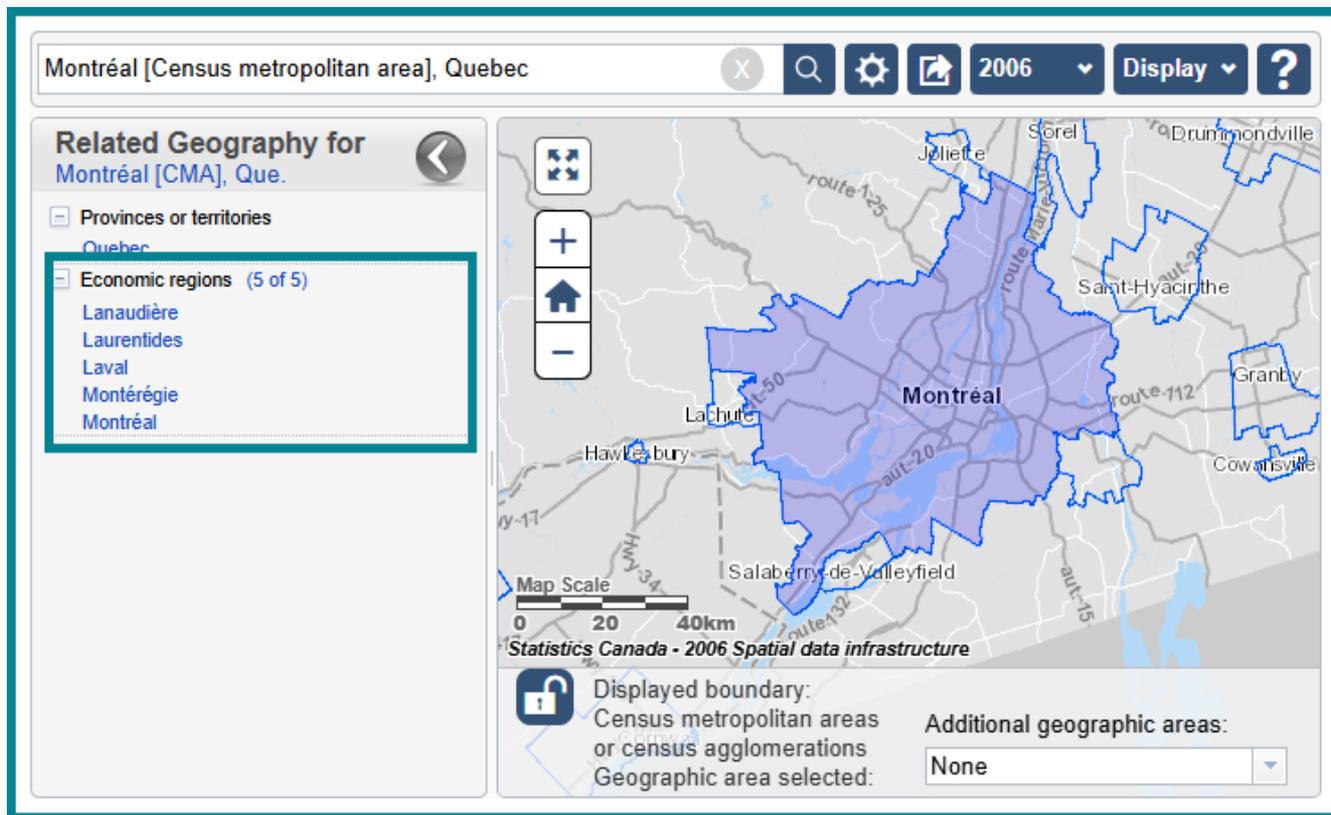
GeoSearch from Statistics Canada can help you map CMAs to ERs.



# Economic Regions



# Economic Regions



# 3

## Data Sources and Methods

# Why Economic Region?

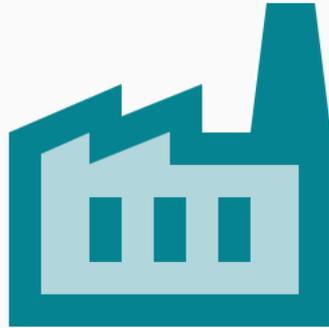


- **Official Standard:** The ER is the designated geographic standard created by Statistics Canada for robust regional economic activity analysis
- **Comprehensive Coverage:** It ensures full national geographic coverage and seamless alignment with all provincial boundaries
- **Data Integrity:** The chosen geographic unit ensures access to raw data that is definitionally consistent with IMPLAN provincial employment data

# Methods Overview



Employment



Other Industry-  
Level Data



Final Demand and  
Other Model Elements



Trade

# Employment Raw Data Sources

## Provincial and Territorial Economic Accounts

- Experimental data series from Statistics Canada
- Annual employment by ER
  - Number of paid worker jobs
  - Number of self-employed
- No industry detail

## Business Register's Canadian Business Counts

- Custom data table from Statistics Canada
- Establishment count by ER
  - By industry (6-digit NAICS)
  - By 9 employment size ranges
- Snapshot in time

# Employment Estimation Methods



- Generate **initial employment estimates** broken down by ER and detailed industry
- Develop and apply **ER industry-specific employment ratios** to total ER employment by employment type
- Utilize an **iterative balancing method (RAS)** to ensure accuracy and consistency
  - All ER industry employment sums must precisely align with both total ER employment and IMPLAN's established provincial industry employment totals

# Ensuring Model Completeness: Distribution of Key Variables

## Industry Data

- Distribute provincial-level data using **industry-specific** and **employment-type specific** employment ratios
- Components of Output
  - Value Added: Employee Compensation, Gross Mixed Income, Gross Operating Surplus, Other Taxes on Production
  - Intermediate Expenditures

## Other IMPLAN Model Elements

- Distribute other provincial-level data using:
  - industry-specific employment
  - total employment
  - various Value Added components
  - other distributors such as household counts

# Trade



- **Foreign Trade (Imports and Exports):**  
Foreign trade flows are modeled assuming they maintain the same proportion relative to the gross demand of each commodity as observed at the parent provincial-level
- **Domestic Trade (Inter-Regional Flows):**  
Domestic trade flows (imports and exports between ERs) are distributed based on each region's net demand and supply for every commodity

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## Exploring the New Data

# Accessing the Canada Data

Eric Clower AU

Eric Clower AU

Eric Clower AU

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PP

### Create a New Project

Enter Project Name Here

Folder  
All Projects

Industry Set  
**235 Industries (Canada)**

Aggregation Scheme  
235 Unaggregated Canada

Household Set  
2017 Canada

BACK CREATE PROJECT



# Map View



# List View

2021 ▾

🔍 Search By Province/Territory or Economic Region

🔴 Multi Select View



## Province/Territory

+ ADD ALL

- + Alberta >
- + British Columbia >
- + Manitoba >
- + New Brunswick >
- + Newfoundland and Labrador >
- + Northwest Territory >
- + Nova Scotia >
- + Nunavut >

## Economic Region

+ ADD ALL

- + Cariboo
- + Kootenay
- + Lower Mainland - Southwest
- + Nechako
- + North Coast
- + Northeast
- + Thompson - Okanagan
- + Vancouver Island and Coast

# 3 Economic Regions in British Columbia



# Employment in Mining, Quarrying, and Oil and Gas Extraction

Region	Employment in Mining	Total Employment	% in Mining
<b>British Columbia</b>	<b>24,035</b>	<b>2,698,542</b>	<b>0.9%</b>
Northeast, BC	4,791	39,903	12.0%
Nechako, BC	956	21,320	4.5%
Lower Mainland-Southwest, BC	8,670	1,714,225	0.5%

# Mining in Northeast, BC

	Industry Code	^	Description	Total Employment
10	10		Support activities for forestry	124.05
11	11		Oil and gas extraction (except oil sands)	1,278.26
12	12		Oil sands extraction	0.00
13	13		Coal mining	1,908.89
14	14		Iron ore mining	0.00
15	15		Gold and silver ore mining	11.10
16	16		Copper, nickel, lead and zinc ore mining	0.00
17	17		Other metal ore mining	0.00
18	18		Stone mining and quarrying	3.36
19	19		Sand, gravel, clay, and ceramic and refractory minerals mining and quarrying	54.80
20	20		Diamond mining	0.00
21	21		Other non-metallic mineral mining and quarrying (except diamond and potash)	0.00
22	22		Potash mining	0.00

# Employment in Professional, Scientific, and Technical (PST) Services

Region	Employment in PST Services	Total Employment	% in PST Services
<b>British Columbia</b>	<b>222,540</b>	<b>2,698,542</b>	<b>8.2%</b>
Northeast, BC	1,549	39,903	0.1%
Nechako, BC	508	21,320	0.02%
Lower Mainland-Southwest, BC	163,739	1,714,225	6.1%

# Professional, Scientific, and Technical Services in Lower Mainland-Southwest, BC

	Industry Code	Description	Total Employment
180	180	Legal services	15,891.51
181	181	Accounting, tax preparation, bookkeeping and payroll services	20,296.36
182	182	Architectural, engineering and related services	27,737.68
183	183	Specialized design services	5,960.42
184	184	Computer systems design and related services	47,175.60
185	185	Management, scientific and technical consulting services	18,637.33
186	186	Scientific research and development services	11,421.55
187	187	Advertising, public relations, and related services	5,889.33
188	188	Other professional, scientific and technical services	10,729.49

# Employment in Agriculture, Forestry, Fishing and Hunting

Region	Employment in Ag, Forestry, Fishing & Hunting	Total Employment	% in Ag, Forestry, Fishing & Hunting
<b>British Columbia</b>	<b>56,060</b>	<b>2,698,542</b>	<b>2.1%</b>
Northeast, BC	1,617	39,903	4.1%
Nechako, BC	2,177	21,320	10.2%
Lower Mainland-Southwest, BC	21,902	1,714,225	1.3%

# Agriculture, Forestry, Fishing and Hunting in Nechako, BC

	Industry Code ^	Description	Total Employment
1	1	Crop production (except cannabis, greenhouse, nursery and floriculture production)	44.72
2	2	Greenhouse, nursery and floriculture production (except cannabis)	25.96
3	3	Cannabis production (licensed)	0.00
4	4	Cannabis production (unlicensed)	0.00
5	5	Animal production (except aquaculture)	661.35
6	6	Aquaculture	0.00
7	7	Forestry and logging	1,018.45
8	8	Fishing, hunting and trapping	6.29
9	9	Support activities for crop and animal production	9.16
10	10	Support activities for forestry	411.42

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## Final Remarks

# IMPLAN Canada



- **Fills a critical data gap for enhanced granularity.**
- Enables advanced regional economic modeling.

# IMPLAN Canada



- Fills a critical data gap for enhanced granularity.
- **Enables advanced regional economic modeling.**

# IMPLAN Canada



If you're just looking at aggregate economic impacts, you could be missing a big part of the story.

# Schedule a Personalized Demo

**READY TO MAKE AN IMPACT?**

We'll contact you within one business day to schedule your personalized demo.

First Name\*

Last Name\*

Email\*

Phone Number\*

Organization\*

Which of these best describes you\*

Message

- Schedule at [implan.com/demo](https://implan.com/demo) or email [sales@implan.com](mailto:sales@implan.com)
- Explore what data is included in IMPLAN Cloud
- Run through your specific project in IMPLAN Cloud
- See what metrics are included in the results of an IMPLAN Cloud project

# Personal Support

Email: [support@implan.com](mailto:support@implan.com)



# How can we help you?

Search our knowledge base for answers to common questions.



## Getting Started in IMPLAN

Discover the Basics about using IMPLAN.



## Project Design

Considerations and Best Practices for Use Cases



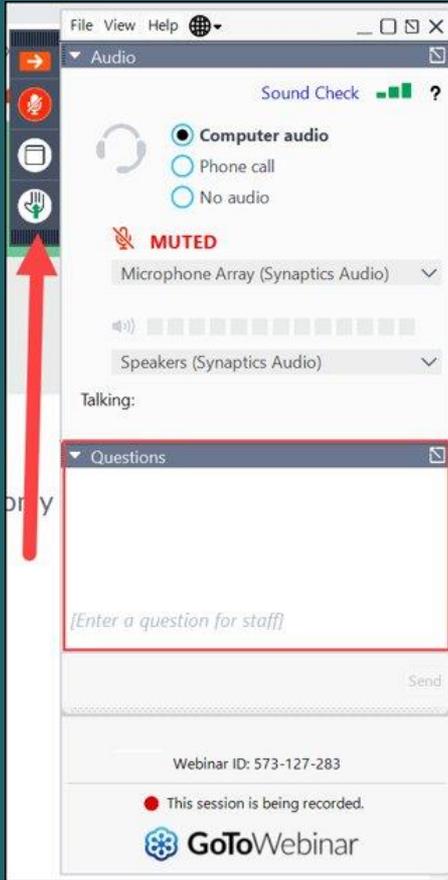
## References

Dig into IMPLAN Methodology, Data Sources, and Definitions.



## Learning Center

Additional Training, Product Updates, & Support



# Got a Question?

Post them in the Question Box!

Explore more info at [support.implan.com](https://support.implan.com)

**IMPLAN**

# Why We Don't Use LFS Data



- Labour Force Survey provides employment characteristics by ER
- Do not use for the following reasons:
  - LFS is number of persons, not number of jobs
  - Does not cover all types of jobs
  - 16 broad industries
  - Some economic regions are not reported separately (e.g. Nechako and North Coast)

# Employment in Construction

Region	Employment in Construction	Total Employment	% in Construction
British Columbia	273,185	2,698,542	10.1%
Northeast, BC	5,273	39,903	0.2%
Nechako, BC	1,521	21,320	0.1%
Lower Mainland-Southwest, BC	172,952	1,714,225	6.4%