

Data and Evidence for Decision Making

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SYSTEMS MODELLING AND ANALYTICS

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Ministry of
Education and
Child Care

What is today's purpose?

To expand on:

- information that is available
- where it is
- how it can be used
- observations on thinking about and applying evidence



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Infographic

Source: Visual Capitalist



Data Table (Online)

Source: Statistics Canada

Work status	Total, work status				
Age group	Total, age group				
Sex	Total, sex				
Statistics	Number of educators ^{6, 7}				
Geography	2019 / 2020	2020 / 2021	2021 / 2022	2022 / 2023	2023 / 2024
	Number				
Canada (map)	403,665	409,785	410,142	413,673	422,151
Newfoundland and Labrador ⁸ (map)	5,343	5,595	5,490	5,502	5,541
Prince Edward Island ⁸ (map)	1,704	1,749	1,527	1,788	1,716
Nova Scotia ⁹ (map)	9,843	9,924	10,431	11,250	10,485
New Brunswick ⁸ (map)	7,806	8,304	8,289	8,472	9,003
Quebec ^{8, 10} (map)	111,255	114,147	117,612	120,639	124,221
Ontario ^{8, 11} (map)	157,317	159,687	156,876	155,493	158,040
Manitoba ^{8, 12} (map)	13,785	14,064	13,860	13,800	13,998
Saskatchewan ^{8, 13} (map)	12,132	12,327	12,171	11,931	12,111
Alberta ^{13, 14} (map)	41,253	40,566	40,251	40,722	41,952
British Columbia ¹⁵ (map)	40,464	40,749	40,689	41,061	42,120

Data Table

SCHOOL_YEAR	DATA_LEVEL	PUBLIC_OR_INC.	DISTRICT	DISTRICT_NAME	SCHOOL_ID	SCHOOL_NAME	FACILITY_TYPE	GRADE	TOTAL_STUDENTS
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08321001	Armstrong Elementary	Standard	All Grades	266
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08321004	Pleasant Valley Secondary	Standard	All Grades	505
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08321005	Highland Park Elementary	Standard	All Grades	324
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383035	Salmon Arm Secondary	Standard	All Grades	636
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383036	Len Wood Middle School	Standard	All Grades	323
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383037	Shuswap Middle School	Standard	All Grades	663
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383038	Carlin Elementary Middle	Standard	All Grades	286
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383039	North Shuswap Elementary	Standard	All Grades	122
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383040	Falkland Elementary Junior School	Standard	All Grades	122
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383041	Silver Creek Elementary Secondary	Standard	All Grades	82
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383042	Rancho Elementary Junior	Standard	All Grades	155
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383043	J.L. Jackson Secondary	Standard	All Grades	629
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383044	Eagle River Secondary	Standard	All Grades	156
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08383045	South Canoe	Standard	All Grades	123
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08389002	A L Fortune Secondary	Standard	All Grades	364
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08389009	Grindrod Elementary	Standard	All Grades	120
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08389017	M.V. Beattie Elementary	Standard	All Grades	311
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08389021	North Canoe Elementary	Standard	All Grades	71
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08389022	Salmon Arm West Elementary	Standard	All Grades	96
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08389023	South Broadview Elementary	Standard	All Grades	193
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08389028	Bastion Elementary	Standard	All Grades	352
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08389029	Sorrento Elementary	Standard	All Grades	258
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08389032	Parkview Elementary School	Standard	All Grades	194
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08389033	Hillcrest Elementary	Standard	All Grades	310
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08399072	Salmon Arm Storefront	Alternate	All Grades	45
2022/2023	School Level	BC Public School	83	North Okanagan-Shuswap	08399132	Educational Outreach Program	Online Learning	All Grades	84

Source: BC Open Data Catalogue



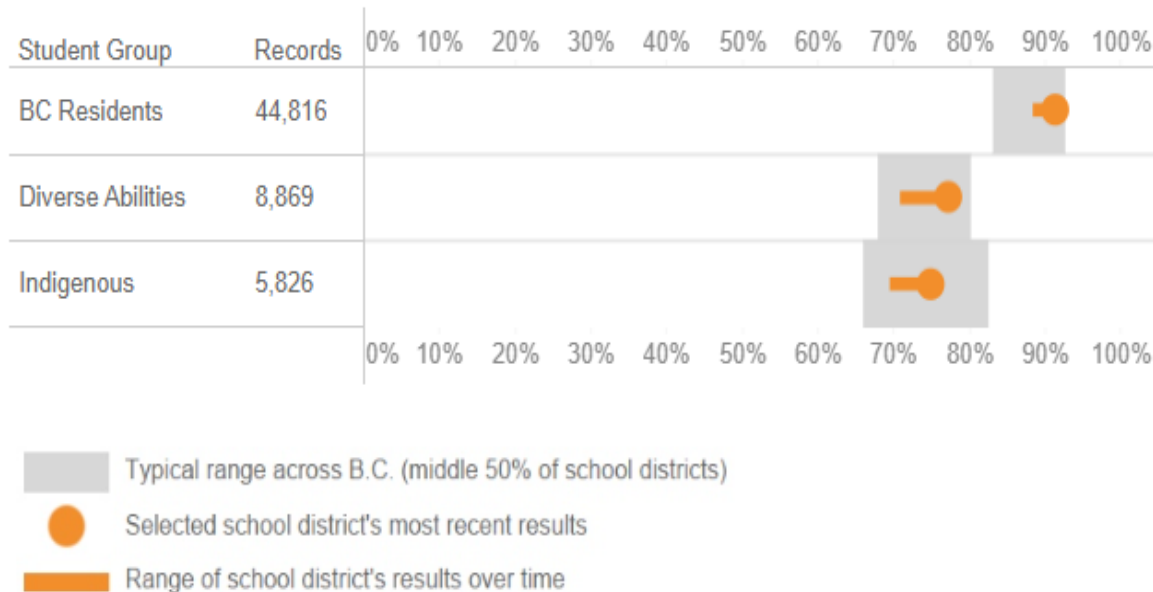
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Overview of B.C. Public School Data

Analytics

Six-year completion rates



Source: www.StudentSuccess.bc.gov.ca

What do data do?

- Provide a record of an event or transaction
- Add to available information
- Provide evidence
- Provide perspective
- Aid decision making
- Guide interventions
- Lead to action
- Enable evaluation



What kinds of data in the K-12 / CC sectors?

- **Quantitative Data**

- Survey Data – Student Learning Survey / Provider Profile Survey
- Administrative Data – Enrolment / CC programs
- Aggregate Data – Completion Rates / Assessment Results
- Record Level Data – Report cards

- **Qualitative Data**

- Personal Observations
- Anecdotes
- Experience

*Stories and Meaning from
a Range of Voices*

Additional Perspectives

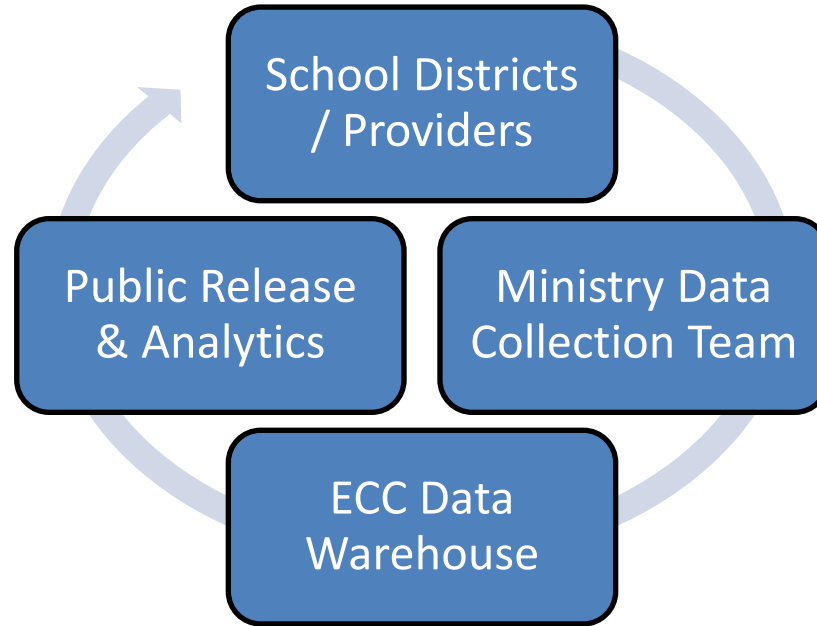
- Forecasts
- Socio-Economic Status
- Indigenous / First Nations Ways of Knowing
- Other people and groups with applicable knowledge.



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How does ECC get the data?



Where can you get the data?



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Statistics Canada



Statistics
Canada

Statistique
Canada

français

Search website



Subjects

Data

Analysis

Reference

Geography

Census

Surveys and statistical programs

About StatCan

Canada.ca

Statistics Canada

Statistics Canada is the national statistical office. The agency ensures Canadians have the key information on Canada's economy, society and environment that they require to function effectively as citizens and decision makers.

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October 10,
2023



Participation in Canadian society through sport and work

This release focuses on participation in sport and experiences in the Canadian workplace. Motivations and

Canada's population reaches 40 million



There are now 40 million Canadians. Learn more about this historic milestone.

[Mobile applications](#)

Key indicators | [★ All indicators](#)

Canada

[Quarterly population estimate](#)

(Note) (July 1, 2023)

40,097,761

0.9% ↑

(quarterly
change)

[Consumer Price Index](#)



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www.StatCan.gc.ca

BC Stats

[Home](#) > [Data](#) >

Statistics

Whether you are looking for B.C. population projections, historical Census data or the latest labour force statistics, find a wealth of information at your fingertips.

Statistics Search



Business, Industry & Trade

Find data and analysis related to businesses and specific industries in B.C., as well as export and import figures and trade profiles.

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View annual averages and forecasts, learn about the Labour Force Survey and browse a list of other resources.

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Economy

Find a variety of statistics related to the economic strength of B.C. including gross domestic product, consumer price index, housing starts and more.

[Explore Within](#) ▾

People, Population & Community

View statistics that reflect the people of B.C. including socioeconomic profiles, population projections, migration figures and census profiles for Indigenous peoples.

[Explore Within](#) ▾

B.C. Data Catalogue

Explore the B.C. Government's extensive collection of datasets, applications and web services.

▮ [Go to the Data Catalogue](#)

Statistical Resources

▮ [Find a term in the glossary](#)
▮ [View release schedule](#)

Data Management

Learn about three B.C. Government organizations that are instrumental to managing and sharing data.

▮ [BC Stats](#)
▮ [DataBC](#)
▮ [GeoBC](#)



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<https://www2.gov.bc.ca/gov/content/data/statistics>

www.StudentSuccess.gov.bc.ca

The screenshot shows the homepage of the Student Success website. At the top, there is a dark blue navigation bar with the British Columbia logo on the left and 'English | Français' on the right. Below this is a secondary navigation bar with links for 'Home', 'School districts', 'Cities', 'Child Care', 'Research and Analysis', and 'Glossary'. The main content area has a blue background with a grid of images related to education. The primary heading is 'Information to support student learning' in large white text. Below this is a sub-heading: 'Look up data and reports by school, district, or community.' A search bar contains the placeholder text 'Enter School District or School' and a magnifying glass icon. To the right of the search bar are two links: 'View All School Districts' and 'View All Cities'. Below the search bar is a section titled 'Insight into The Education Sector' with a sub-heading 'School data is an important part of the B.C. education system as it strives to support each student's development. It drives continuous improvements in the education system and supports student's intellectual, human/social and career development under B.C.'s Framework for Enhancing Student Learning.' To the right of this text is an image of a tablet displaying a data visualization. The bottom of the page features a dark blue footer with the British Columbia logo and the text 'Ministry of Education and Child Care'.

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English | Français

Home | School districts | Cities | Child Care | Research and Analysis | Glossary

Information to support student learning

Look up data and reports by school, district, or community.

Enter School District or School | [View All School Districts](#) | [View All Cities](#)

Insight into The Education Sector

School data is an important part of the B.C. education system as it strives to support each student's development. It drives continuous improvements in the education system and supports student's intellectual, human/social and career development under B.C.'s Framework for Enhancing Student Learning.

Summary reports, infographics and other data visualizations present

Data Availability and Data Usage

“Even today, when data on just about everything is a few clicks away, not many people avail themselves of it.”

“We instinctively draw on our impressions, which distort our understanding whenever the strengths of those impressions don’t mirror frequencies in the world.”

Stephen Pinker, Rationality, 2021



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Knowledge

- Knowledge is never settled with finality (i.e., no one has the final say)
- There are institutional structures and social processes for ideas to be tested.

- Why does that matter for us?
- An open mind is really important.
- There are many perspectives that we can understand and more importantly be offered.



What do you need to know?

- Enrolment and demographics

- Priority populations

- Indigenous – **The Aboriginal How Are We Doing? Report***

- Students with Designations*

- English Language Learners*

- Enrolment projections



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What do you need to know?

- Completion Rates
- Assessment Results
 - Foundation Skills Assessment
 - Grad Literacy and Numeracy Assessments
- Student Learning Survey
- Child Care Spaces



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How to use what you need to know?

- Build trust
 - Be curious and ask questions
- Build capacity
 - Ask questions and learn
- Build confidence to understand what is presented.
 - But...don't let 'paralysis by analysis' become a barrier
 - Recognise when a distinction is cost/time-effective or not.
- Integrate data into the process of decision making.



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Thinking about data & statistics

- Understand the complexity of an issue
- Think statistically
- Complement qualitative data
- Synthesise



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Action

Ultimately, data, information, statistics, evidence and the appropriate context should lead to action.



The end for today



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