

2019 Annual Survey of Manufacturing Industries

CONFIDENTIAL once completed.

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This information is collected under the authority of the *Statistics Act, Revised Statutes of Canada, 1985, Chapter S-19.*
COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THIS ACT.

Introduction

Survey purpose

This survey collects the financial and operating data needed to develop national and regional economic policies and programs.

Data from this survey are used by the business community, manufacturing associations, federal and provincial departments, and international organizations to:

- profile the manufacturing and logging industries
- undertake market studies
- forecast demand
- develop trade tariff policies.

In addition, businesses use the data to track their performance against industry averages, evaluate expansion plans, and prepare business plans for investors.

Your information may also be used by Statistics Canada for other statistical and research purposes.

Your participation in this survey is required under the authority of the *Statistics Act*.

Security of emails and faxes

Statistics Canada advises you that there could be a risk of

disclosure during facsimile or email. However upon receipt, Statistics Canada will provide the guaranteed level of protection afforded all information collected under the authority of the *Statistics Act*.

Note: Our online questionnaires are secure, there is no risk of data interception when responding to Statistics Canada online surveys.

Confidentiality

The *Statistics Act* protects the confidentiality of information collected by Statistics Canada.

Data-sharing agreements

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes.

Information on confidentiality, data-sharing agreements and record linkages can be found on the last page of this questionnaire.

Please return the questionnaire within 21 days.

Please mail the completed questionnaire in the enclosed envelope or fax it to Statistics Canada at 1-888-883-7999.

If you are unable to complete within 21 days **OR** if you need help, call us at **1-800-858-7921** or **TTY 1-800-363-7629**.

Statistics Canada
Operations and Integration Division
150 Tunney's Pasture Driveway
Ottawa, Ontario K1A 0T6

Visit our website, www.statcan.gc.ca

Reporting instructions

- Please print in ink.
- Report dollar amounts **in thousands of Canadian dollars**.
- **Exclude** sales tax.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Consult the reporting guide at www.statcan.gc.ca/guides-e for further information.

Business or organization and contact information

1. **Verify or provide** the business or organization's **legal and operating name** and correct where needed.

Note: Legal name modifications should only be done to correct a spelling error or typo.

Legal name

Operating name (if applicable)

2. **Verify or provide the contact information** of the designated business or organization **contact person** for this questionnaire and correct where needed.

Note: The designated contact person is the person who should receive this questionnaire. The designated contact person may not always be the one who actually completes the questionnaire.

First name

Last name

Title

Preferred language of communication

English

French

Mailing address (number and street)

City

Province, territory or state

Postal code or ZIP code
Example: A9A 9A9 or 12345 234

Country

Email address

Example: user@example.gov.ca

Telephone number (including area code)

Example: 123-123-1234

Extension number

(if applicable)

Fax number (including area code)

Example: 123-123-1234

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3. **Verify or provide the current operational status** of the business or organization identified by the legal and operating name above.

B00323

1 Operational → **Go to question 4**

2 Not currently operational

e.g., temporarily or permanently closed, change of ownership

Why is this business or organization not currently operational?

B00309

2 Seasonal operations → **Go to question 3a**

3 Ceased operations → **Go to question 3b**

4 Sold operations → **Go to question 3c**

5 Amalgamated with other businesses or organizations → **Go to question 3d**

6 Temporarily inactive but will re-open → **Go to question 3e**

7 No longer operating due to other reasons → **Go to question 3f**

3a. Seasonal operations

When did this business or organization close for the season?

Date B00217
YYYY MM DD

When does this business or organization expect to resume operations?

Date B00218
YYYY MM DD → **Go to question 4**

3b. Ceased operations

When did this business or organization cease operations?

Date B00211
YYYY MM DD

Why did this business or organization cease operations?

B00311

1 Bankruptcy

2 Liquidation

3 Dissolution

4 Other
Specify the other reasons why the operations ceased

B00312

→ **Go to question 4**

3c. Sold operations

When was this business or organization sold?

YYYY MM DD
B00212

What is the legal name of the buyer?

B00406

→ Go to question 4

3d. Amalgamated with other businesses or organizations

When did this business or organization amalgamate?

YYYY MM DD
B00213

What is the legal name of the resulting or continuing business or organization?

B00407

What are the legal names of the other amalgamated businesses or organizations?

B00408

→ Go to question 4

3e. Temporarily inactive but will re-open

When did this business or organization become temporarily inactive?

YYYY MM DD
B00214

When does this business or organization expect to resume operations?

YYYY MM DD
B00215

Why is this business or organization temporarily inactive?

B00313

→ Go to question 4

3f. No longer operating due to other reasons

When did this business or organization cease operations?

YYYY MM DD
B00216

Why did this business or organization cease operations?

B00314

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4. **Verify or provide the current main activity** of the business or organization identified by the legal and operating name.

Note: The described activity was assigned using the North American Industry Classification System (NAICS).

B05002

1 This is the current main activity → **Go to question 7**

2 This is **not** the current main activity
Provide a **brief but precise description** of this business or organization's **main activity**
e.g., breakfast cereal manufacturing, shoe store, software development

B05003



5. Was this business or organization's main activity ever classified as:

B05111

1 Yes

2 No → **Go to question 7**

6. When did the main activity change?

Date YYYY MM DD

B00219

7. Are there any **other activities that contribute significantly (at least 10%) to this business or organization's revenue?**

B05024

1 **Yes**, there are other activities

2 **No**, that is the only significant activity → **Go to next section**

8. Provide a **brief but precise description** of this business or organization's **secondary activity**.

e.g., breakfast cereal manufacturing, shoe store, software development

B05005

9. Approximately what **percentage of this business or organization's revenue** is generated by each of the following activities?

When precise figures are not available, provide your best estimates.

Percentage of revenue

a. Main activity

B05004 %

b. Secondary activity

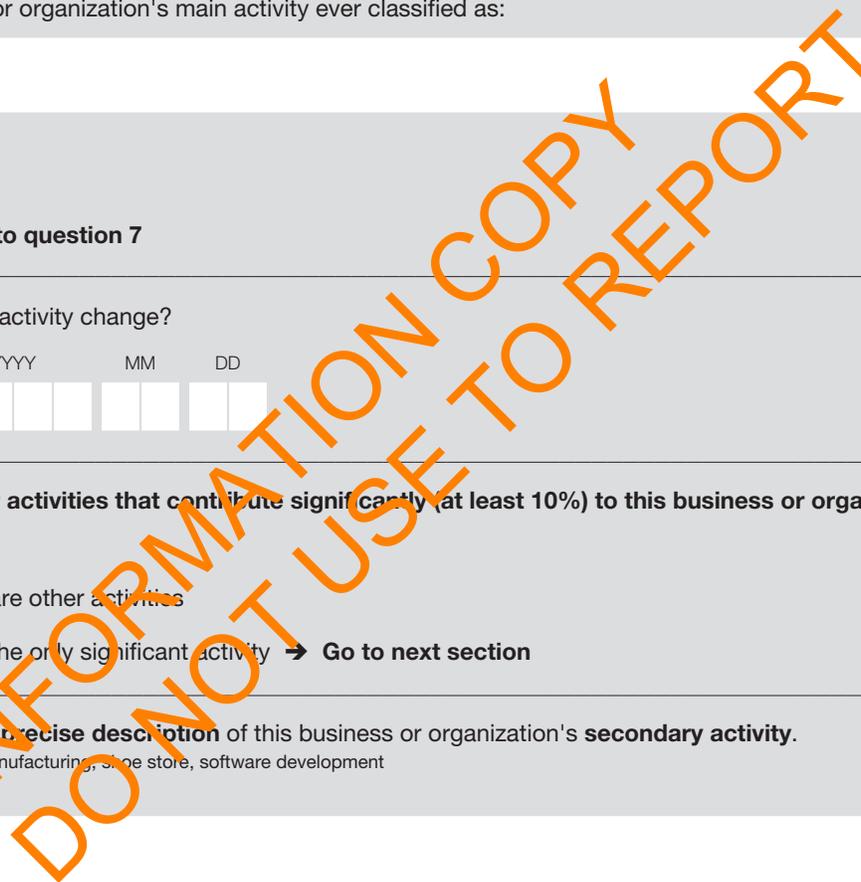
B05006 %

c. All other activities

B05008 %

Total percentage

B05000 %



Reporting period information

1. For this survey, please report information for this business or organization most recent **12 month fiscal period**.

Note: For this survey, the **End date** should fall between April 1, 2019 and March 31, 2020.

Start date B00205 YYYY MM DD End date B00206 YYYY MM DD

2. If the reporting period **does not cover a full year**, please check the reason(s) below (mark all that apply):

B00301_r1

seasonal operations

B00301_r5

ceased operations

B00301_r2

new business

B00301_r6

temporarily inactive

B00301_r3

change of ownership

B00301_r7

other reason — please specify:

B00301_r4

change of fiscal year

B00301_r8

3. Please indicate below, any changes or events that may have affected the reported values for this business or organization compared to the last reporting period (mark all that apply):

B00302_t1

strike or lockout

B00302_t10

sold business or business units

B00302_t2

exchange rate impact

B00302_t11

expansion

B00302_t3

price changes in goods or services sold

B00302_t12

new or lost contract

B00302_t4

contracting out

B00302_t13

plant closures

B00302_t5

organizational change

B00302_t14

acquisition of business or business units

B00302_t6

price changes in labour or raw materials

B00302_t15

other change or event — please specify:

B00302_t7

natural disaster

B00302_t16

B00302_t8

recession

B00302_t17

no change or event

B00302_t9

change in product line

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Revenue

- Notes:**
- A detailed breakdown may be requested in other sections.
 - These questions are asked of many different industries — some questions may not apply to this business.
 - Refer to the reporting guide for detailed instructions.
 - Please report all amounts **in thousands of Canadian dollars**.

What was this business's revenue from each of the following sources?

	CAN\$ '000
1. Sales of goods and services Exclude shipping charges, discounts, sales allowances, returned sales, sales taxes, and excise duties and taxes.	F43008 \$ <input type="text"/> ,000
2. Rental and leasing	F45801 \$ <input type="text"/> ,000
3. Commissions	F45701 \$ <input type="text"/> ,000
4. Subsidies Include grants, donations and fundraising.	F47101 \$ <input type="text"/> ,000
5. Royalties, rights, licensing and franchise fees	F47201 \$ <input type="text"/> ,000
6. Dividends	F51101 \$ <input type="text"/> ,000
7. Interest	F51201 \$ <input type="text"/> ,000
8. Other revenue — please specify: F51302 <input type="text"/>	F51301 \$ <input type="text"/> ,000
9. Total revenue (sum of questions 1 to 7)	F40000 \$ <input type="text"/> ,000

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E-Commerce

The following questions are about e-commerce activities.

E-commerce revenue: Sales of goods and services conducted over the Internet with or without online payment.

Include all revenue for which an order is received and commitment to purchase is made via the Internet, although payment can be made by other means, such as orders made on web pages, an extranet, mobile devices or Electronic Data Interchange (EDI).

Exclude orders made by telephone, facsimile or email.

Sales from automated kiosks located within the business's establishments are excluded from E-commerce sales.

1. For this reporting period, what was this business's total revenue?

Please report all amounts in thousands of Canadian dollars.

Include: sales of goods and services; rental, leasing and property management; commissions; subsidies, grants, donations, fundraising and sponsorships; royalties; rights; licensing and franchise fees; dividends, interest and other revenue.

CAN\$ '000
F4000PF1
\$,000

2. Did this business have any e-commerce revenue in this reporting period?

B05163

1 Yes → Go to question 3

3 No → Go to question 6

3. What was the total e-commerce revenue in this reporting period?

When precise figures are not available, please provide your best estimate.

CAN\$ '000
F43459
\$,000

4. During this reporting period, did this business make sales over the internet through any of the following methods?

Select all that apply.

a. via a mobile app

B05164_m1

B05164_m2

b. via your company website

B05164_m3

c. via a third-party website.

B05164_m4

d. via Electronic Data Interchange (EDI)

B05164_m5

e. other methods — please specify:

B05164_m6

5. Does this business have any full-time staff dedicated solely to activities related to e-commerce?

B20052

1 Yes

3 No

6. If you answered No at question 2, please identify the reasons why this business did not make sales over the Internet:

Select all that apply.

a. goods and services do not lend themselves to online sales

B05165_r1

b. prefer to maintain current business model

B05165_r2

c. lack of skilled workers to implement and maintain e-commerce infrastructure

B05165_r3

d. cost of development is too high

B05165_r4

e. security concerns

B05165_r5

f. other reasons — please specify:

B05165_r6

B05165_r7

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Expenses

- Notes:**
- A detailed breakdown may be requested in other sections.
 - These questions are asked of many different industries — some questions may not apply to this business.
 - Refer to the reporting guide for detailed instructions.
 - Please report all amounts **in thousands of Canadian dollars**.

What were this business's expenses for the following items?

	CAN\$ '000
1. Purchases Include: raw materials, goods purchased for resale and non-returnable containers. Exclude: change in inventories.	F61306 \$ <input type="text"/> ,000
2. Employment costs and expenses Include all employees who were issued a T4.	F61501
a. salaries, wages and commissions	\$ <input type="text"/> ,000
b. employee benefits (see reporting guide for additional information)	F61502 \$ <input type="text"/> ,000
3. Subcontracts Exclude research and development fees.	F62503 \$ <input type="text"/> ,000
Please provide a percentage breakdown of the amount reported at question 3:	
a. from Canadian sources	Percentage F62503_sr1 <input type="text"/> <input type="text"/> <input type="text"/> %
b. from sources in other countries	F62503_sr2 <input type="text"/> <input type="text"/> <input type="text"/> %
4. Research and development fees Exclude in-house research and development.	F62504 \$ <input type="text"/> ,000
5. Professional and business fees (e.g., legal, accounting, consulting and technical service fees)	F62601 \$ <input type="text"/> ,000
6. Energy and water expenses Include electricity, gas, water, oil, diesel, propane, fuel wood and sewage.	F61801 \$ <input type="text"/> ,000
7. Office and computer related expenses (e.g., office supplies, postage and computer upgrades)	F62505 \$ <input type="text"/> ,000
8. Telephone, Internet and other telecommunication	F61802 \$ <input type="text"/> ,000
9. Business taxes, licenses and permits (e.g., business tax, license fees and property taxes)	F61901 \$ <input type="text"/> ,000
10. Royalties, franchise fees and memberships Exclude Crown royalties.	F62001 \$ <input type="text"/> ,000
11. Crown charges (for logging, mining and energy industries only)	F62506 \$ <input type="text"/> ,000

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CAN\$ '000

12. Rental and leasing Include land, buildings, equipment and vehicles.	F62101 \$ [] ,000
13. Repair and maintenance Include buildings, equipment and vehicles.	F62201 \$ [] ,000
14. Amortization and depreciation	F61601 \$ [] ,000
15. Insurance	F62301 \$ [] ,000
16. Advertising, marketing, promotion, meals and entertainment	F62507 \$ [] ,000
17. Travel, meetings and conventions	F62508 \$ [] ,000
18. Financial service fees (e.g., bank charges and transaction fees)	F62401 \$ [] ,000
19. Interest expense	F69101 \$ [] ,000
20. Bad debt, loan losses, donations, political contributions and inventory writedown	F62509 \$ [] ,000
21. All other costs and expenses — please specify. Include intracompany expenses. F62512 []	F62511 \$ [] ,000
22. Total expenses (sum of questions 1 to 21)	F60000 \$ [] ,000

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Industry characteristics

Sales

1. Is this business a cost center?

A cost center is a subdivision of an organization with which costs are identified for purposes of managerial control.

B05026_b

Yes No

2. The next questions are about the value of goods produced.

Are the goods valued at:

F43001_y

Final selling price Transfer price

Other method of valuation – specify:

F43001_y4

3. What were this business's sales for the following items?

Report the sales net of shipping charges, discounts, sales allowances, returned sales, sales taxes, and excise duties and taxes.

Please report all amounts in **thousands of Canadian dollars**.

CAN\$ '000

a. sales of goods manufactured

(a detailed breakdown by product will be requested in a subsequent section)

F43002

\$,000

b. sales of goods purchased for resale, as is

F43003

\$,000

c. revenue from repair work

Include only repair revenue from billing labour, as the materials and products are owned by clients, or by other business units of this company.

F45901

\$,000

d. revenue from manufacturing service fees and/or custom work

Include only service revenue from billing labour, as the materials and products are owned by clients, or by other business units of this company.

F45001

\$,000

e. please provide a percentage breakdown of the amount reported at question d:

Percentage

F45001_sr1

%

from Canadian clients

F45001_sr2

%

from clients in other countries

f. other sales — specify:

F43175

F43005

\$,000

Total sales of goods and services

(sum of questions a. to f.)

F43000

\$,000

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Expenses

4. What were this business's expenses for the following items?

Please report all amounts in thousands of Canadian dollars.

CAN\$ '000

- a. purchases of raw materials and components
(a detailed product breakdown will be requested in a subsequent section) \$,000
- b. purchases of non-returnable containers and other shipping and packaging materials \$,000
- c. purchases of goods for resale, as is \$,000
- d. vehicle fuel expense
Include fuel used to operate any type of vehicle such as sales representatives' cars, delivery trucks, and lift trucks.
Exclude any fuel purchased for power/heat generation. \$,000

5. Did this business purchase goods (raw materials, semi-finished, or finished goods) "off the shelf" outside of Canada and sell them "as-is" in foreign markets (including the U.S.) without altering the goods, and without the goods entering Canada before the sale?

B05192

- Yes
 No
 Don't know

Please provide comments if desired.

B05193

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Salaries, wages and commissions

During the reporting period

- | | Direct labour
(manufacturing
or logging)

CAN\$ '000 | Indirect labour
(administrative and
selling/operating)

CAN\$ '000 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 6. For the reporting period, what were this business's expenses for salaries, wages and commissions ? \$ <input type="text"/> ,000 | F61503
<input type="text"/> | F61504
<input type="text"/> |
| | Number | Number |
| 7. For the reporting period, what was the average number of people employed ? | B20061
<input type="text"/> | B20062
<input type="text"/> |

Inventories

8. What was the value of this business's inventory at the beginning and the end of the reporting period?

Please report all amounts in thousands of Canadian dollars.

	Opening CAN\$ '000	Closing CAN\$ '000
a. raw materials and components Include non-returnable containers and other shipping and packaging materials.	F61201 \$ <input type="text"/> ,000	F61401 \$ <input type="text"/> ,000
b. goods and work in process	F61202 \$ <input type="text"/> ,000	F61402 \$ <input type="text"/> ,000
c. finished goods manufactured	F61203 \$ <input type="text"/> ,000	F61403 \$ <input type="text"/> ,000
d. goods purchased for resale, as is	F61204 \$ <input type="text"/> ,000	F61404 \$ <input type="text"/> ,000
e. other inventories — specify: F62501 <input type="text"/>	F61205 \$ <input type="text"/> ,000	F61405 \$ <input type="text"/> ,000
Total inventories (sum of questions a. to e.)	F61200 \$ <input type="text"/> ,000	F61400 \$ <input type="text"/> ,000

9. On the last day of the fiscal year, did this business hold inventories abroad, including inventories in transit to Canada?

Include: raw materials, work in process, and finished goods recorded in this business's accounting books, but physically located outside of Canada. Also include goods purchased abroad for resale "as-is" in foreign markets.

B05192

- Yes
- No
- Don't know

Provide comments if desired:

B05195

10. What was the approximate value of inventories held abroad at the end of the reporting period?

Please report all amounts in thousands of Canadian dollars.

F61409
\$,000

11. Is the value reported above included in the closing inventories previously reported in question 8 from the Inventories section?

- B00517
- Yes
 - No

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Details on purchased services

Please provide a breakdown of expenses for the following purchased services.
Please report all amounts in **thousands of Canadian dollars**.

1. Professional and business fees

CAN\$ '000

	F62402	
a. legal services	\$,000
	F62403	
b. accounting, tax preparation, bookkeeping and payroll services	\$,000
	F62404	
c. management, scientific and technical consulting services Include training.	\$,000
	F62405	
d. office administrative services	\$,000
	F62406	
e. freight transportation arrangements and customs brokering services	\$,000
	F62407	
f. brokerage and other insurance related services	\$,000
	F62408	
g. security brokerage and securities dealing services	\$,000
	F62409	
h. other purchased professional services	\$,000
Total expenses for professional and business fees (Should be equal to or less than the amount from question 5, as reported in the Expenses section on page 9.)	F62400 \$,000

2. Office and computer related expenses

CAN\$ '000

	F61308	
a. data processing, hosting and related services	\$,000
	F61309	
b. business support services Include reproductions, call centres and debt collection.	\$,000
	F61311	
c. other office and computer related purchased services	\$,000
Total expenses for office and computer related expenses (Should be equal to or less than the amount from question 7, as reported in the Expenses section on page 9.)	F61310 \$,000

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3. **Royalties, franchise fees and memberships**

CAN\$ '000

		F62002	
a. rights to non-financial intangible assets	\$	<input type="text"/>	,000
		F62603	
b. membership fees or services	\$	<input type="text"/>	,000
		F62003	
c. other royalties, franchise fees and memberships	\$	<input type="text"/>	,000
		F62000	
Total expenses for royalties, franchise fees and memberships (Should be equal to or less than the amount from question 10, as reported in the Expenses section on page 9.)	\$	<input type="text"/>	,000

4. **Rental and leasing**

CAN\$ '000

		F62411	
a. non-residential real estate rental	\$	<input type="text"/>	,000
		F62412	
b. motor vehicle rental and leasing	\$	<input type="text"/>	,000
		F62413	
c. computer equipment rental and leasing	\$	<input type="text"/>	,000
		F62414	
d. office machinery and equipment rental and leasing services Exclude computer equipment.	\$	<input type="text"/>	,000
		F62415	
e. commercial and industrial machinery and equipment renting and leasing services, without operator Exclude office equipment.	\$	<input type="text"/>	,000
		F62416	
f. other rental services	\$	<input type="text"/>	,000
		F62410	
Total expenses for rental and leasing (Should be equal to or less than the amount from question 12, as reported in the Expenses section on page 10.)	\$	<input type="text"/>	,000

5. **Repair and maintenance**

CAN\$ '000

		F62417	
a. security services and investigation	\$	<input type="text"/>	,000
		F62418	
b. waste management and remediation services	\$	<input type="text"/>	,000
		F62419	
c. motor vehicle repair and maintenance services	\$	<input type="text"/>	,000
		F62421	
d. other repair and maintenance services	\$	<input type="text"/>	,000
		F62420	
Total expenses for repair and maintenance (Should be equal to or less than the amount from question 13, as reported in the Expenses section on page 10.)	\$	<input type="text"/>	,000

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Sales by consumer location

What was the percentage breakdown of this business's sales by consumer location?
 Consumer location is the location where the goods or services will ultimately be used.

If ultimate consumer location is not known, the following are acceptable substitutes:

- shipping destination
- client's billing address
- location of this business's retail customers
- location of this business's warehouses/distribution centres.

	Percentage
1. Newfoundland and Labrador	F43008_g1 <input type="text"/> <input type="text"/> <input type="text"/> %
2. Prince Edward Island	F43008_g2 <input type="text"/> <input type="text"/> <input type="text"/> %
3. Nova Scotia	F43008_g3 <input type="text"/> <input type="text"/> <input type="text"/> %
4. New Brunswick	F43008_g4 <input type="text"/> <input type="text"/> <input type="text"/> %
5. Quebec	F43008_g5 <input type="text"/> <input type="text"/> <input type="text"/> %
6. Ontario	F43008_g6 <input type="text"/> <input type="text"/> <input type="text"/> %
7. Manitoba	F43008_g7 <input type="text"/> <input type="text"/> <input type="text"/> %
8. Saskatchewan	F43008_g8 <input type="text"/> <input type="text"/> <input type="text"/> %
9. Alberta	F43008_g9 <input type="text"/> <input type="text"/> <input type="text"/> %
10. British Columbia	F43008_g10 <input type="text"/> <input type="text"/> <input type="text"/> %
11. Yukon	F43008_g11 <input type="text"/> <input type="text"/> <input type="text"/> %
12. Northwest Territories	F43008_g12 <input type="text"/> <input type="text"/> <input type="text"/> %
13. Nunavut	F43008_g13 <input type="text"/> <input type="text"/> <input type="text"/> %
14. United States	F43008_g14 <input type="text"/> <input type="text"/> <input type="text"/> %
15. All other countries	F43008_g15 <input type="text"/> <input type="text"/> <input type="text"/> %
100%	

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Advanced Manufacturing

1. Does your Business unit use or produce any products or processes in the following list?

Mark all that apply.

B05359_p20

Polymer and composites

B05359_p21

High-volume, high performance composites

Include fibre reinforced thermoplastic and thermoset systems with superior properties; reduction of cycle times for stamping of thermoplastic composites, infusion and resin transfer moulding-based manufacturing technologies; process mapping, manufacturing guidelines, process modeling, part integration/complex parts and efficient multi-material assembly.

B05359_p22

Bio-refineries and sustainable manufacturing

Include transformation of non-food grade biomass (wood, straw, industrial vegetable oils, etc.) into raw materials for the production of bioresins, biofibres and bioadditives; formulation, efficient processing and performance evaluation of bioplastics and biocomposites; recycling of plastics and composites to minimize environmental impact.

B05359_p23

Advanced composites manufacturing efficiency

Include thermoplastic composites with ease of processing and good recyclability; composite performance evaluation, durability testing and prediction; nano-reinforced polymer composites and adhesives; multifunctional materials and coatings; out-of-autoclave processes, automation and part integration; formulation of resins and optimization of processing to maximize composite performance and quality.

B05359_p24

Value-added processing and polymer products

Include lightweighting (plastic glazing, structural foams, compounds, nanocomposites); environmentally-friendly processes and materials (low-toxicity components, solvent-less processes, recyclability, thermosets replacement); part/component integration (overmoulding processes, combining thermoplastic composites with high strength polymers, polymer 3D printing).

B05359_p25

Metal manufacturing

B05359_p26

High-performance, high integrity product forming

Include reduce(d) weight with new alloys; hot superplastic forming, thin and variable wall extrusion, casting of hollow-core components, etc.; die-less sheet forming, rapid/low-cost die manufacturing; hybrid manufacturing (extrusions, forgings, castings); intelligent tooling to improve efficiency and life of tooling.

B05359_p27

Assembling of complex multi-material products

Include joining solutions for specific/complex applications; advanced joining techniques for high-integrity application; multi-material joining using adhesive bonding, friction stir welding and laser welding.

B05359_p28

Innovating machining, polishing, and surface-finishing technologies

Include increasing material removal rates; reduced lead time for new and existing parts; zero-scrap generation; improved quality and increased tool life; reduced waste produced by processes.

B05359_p29

Advanced surface engineering and corrosion protection

Include complex alloy microstructures and relation to corrosion; corrosion-assisted fatigue of multi-materials structures; coatings to improve harsh environment durability; control of corrosion on multi-material assembly; design best practices and standards improvement.

B05359_p30

Production systems

B05359_p31

Flexible manufacturing cells and adaptive manufacturing

Include autonomous and semi-autonomous robots; collaborative and human-assisted robots; mobile and reconfigurable manufacturing systems.

B05359_p32

Metrology and sensing

Include sensing technologies and sensing systems; in-line measurement; non-destructive testing; quality assurance; advanced sensing, measurement, and process control.

B05359_p33

Robotics and mechatronic systems

Include future robotic platforms for assembly, finishing and joining; future robotic platforms for part manufacturing; adaptive robots.

B05359_p34

Additive manufacturing

Include cold spray; electron beam deposition system; laser deposition system; material characterization; formulation of high-performance polymers and composites for additive manufacturing.

Continued on next page

B05359_p35

Digital manufacturing

B05359_p36

Design to manufacture and performance evaluation

Include crash worthiness; manufacturing data object; computer-aided design; computer-aided manufacturing; computer-aided engineering; finite element analysis; computational fluid dynamics; product life-cycle management; bills of materials.

B05359_p37

Digital manufacturing and Internet of things

Include smart factories; Industry 4.0; industrial Internet of things; artificial intelligence; sensor integration; high-performance material formulations, nanocomposites.

B05359_p38

Machine vision

Include processing and analysis software; geometric modeling and dimensional inspection; big data analytics; 3D vision systems; imaging sensors.

B05359_p39

Modelling and process simulation

Include blow and injection moulding; forming; machining; additive and surface treatment; composites manufacturing; assembly processes.

B05359_p40

Photonics manufacturing

B05359_p41

Canadian photonics fabrication centre

Include tier 3 and 4 capability enabling higher value-added tier 1, 2 and original equipment manufacturer activity; telecommunications; data centres; defence; aerospace; clean energy.

B05359_p42

Component fabrication

Include full product life cycle management from technology readiness level 3 to 9; light generation, delivery and detection; lasers; sensors; multi-spectral imaging; photonic integrated circuits.

B05359_p43

Advanced materials

Include materials for environmental sensing; materials for multi-spectral imaging (machine vision); advanced material growth for communications; enabling supply and growth of commercial volumes for compound semiconductors.

B05359_p44

Design test verification

Include modeling of next-generation photonic platform technologies; simulation of complex photonic machines; integrated design for manufacturing; industrial engagement for the deployment of enabling photonic technologies.

B05359_p45

Life sciences manufacturing

B05359_p46

Bio-manufacturing – innovative products

Include therapeutics and vaccine generation; bio-manufacturing; advanced analytics and characterization for biologics and vaccines; proprietary cell line development; preclinical development.

B05359_p47

Bio-manufacturing – process improvement

Include: Industrial process development for upstream and downstream optimization; Advanced analytical; De-risked tech transfer to industrial partners.

B05359_p48

Medical device – innovative products

Include medical photonics, radio frequency and microwave antennas; computer simulations; novel material architectures for implantable devices; microfluidics and biosensors.

B05359_p49

Pilot plant of the future – next generation

Include improved productivity and speed; reduced safety concerns and cross contamination; state-of-the-art equipment in-line with industry standards.

Continued on next page

B05359_p50



Key enabling platform technologies

B05359_p51



Artificial intelligence

Include computer vision and image understanding; adaptive robots; future robotic platforms for part manufacturing; understanding human emotions from language; speech recognition; next generation information extraction using deep learning; artificial intelligence to optimize talent management for human resources.

B05359_p52



Big data analytics

Include predictive equipment maintenance; energy management; artificial intelligence for optimizing energy storage and distribution; understanding and tracking of hazardous chemical elements; process and design optimization.

B05359_p53



Nanomaterials

Include nanoelectronics; nanosensing; smart materials; nanocomposites; self-assembled nanostructures; nanoimprint; nanoplasmonic; nanoclay; nanocoating.

B05359_p54



Printed electrics for Internet of things

Include inks and materials; printing technologies; large area, flexible, stretchable, printed electronic components; applications: sensors for Internet of things, wearables, antenna, radio-frequency identification tags, smart surfaces, packaging, security, signage.

B05359_p55



Other

Please specify:

B05359_p56

OR

B05359_p57



Don't know

We invite your comments pertaining to the advanced manufacturing question.

Comments

B00026

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Sales of goods manufactured, logs and wood residue

1. Please provide your sales of goods manufactured, logs and wood residue by product in **thousands of Canadian dollars**. For each product, report sales net of shipping charges by common or contract carriers, discounts, sales allowances, returned sales, sales taxes, and excise duties and taxes. The total net sales for all products should equal the amount reported in question 3a. of the **Industry characteristics** section.

Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000

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Sales of goods manufactured, logs and wood residue

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Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000

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Sales of goods manufactured, logs and wood residue

1. Please provide your sales of goods manufactured, logs and wood residue by product in **thousands of Canadian dollars**. For each product, report sales net of shipping charges by common or contract carriers, discounts, sales allowances, returned sales, sales taxes, and excise duties and taxes. The total net sales for all products should equal the amount reported in question 3a. of the **Industry characteristics** section.

Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
B40232_p	Quantity sold B40004_p	Unit of measure	Value of sales CAN\$ '000 F43006_p
<input checked="" type="radio"/> Yes →	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000

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Sales of goods manufactured, logs and wood residue

1. Please provide your sales of goods manufactured, logs and wood residue by product in **thousands of Canadian dollars**. For each product, report sales net of shipping charges by common or contract carriers, discounts, sales allowances, returned sales, sales taxes, and excise duties and taxes. The total net sales for all products should equal the amount reported in question 3a. of the **Industry characteristics** section.

Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
<small>B40232_p</small>	Quantity sold	Unit of measure	Value of sales CAN\$ '000
<input checked="" type="radio"/> Yes →	<small>B40004_p</small> <input type="text"/>	<input type="text"/>	<small>F43006_p</small> <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	<input type="text"/> ,000

Product description			
<input type="checkbox"/>	<input type="text"/>	Product code <input type="text"/>	
Was this product sold during this reporting period?			
<small>B40232_p</small>	Quantity sold	Unit of measure	Value of sales CAN\$ '000
<input checked="" type="radio"/> Yes →	<small>B40004_p</small> <input type="text"/>	<input type="text"/>	<small>F43006_p</small> <input type="text"/> ,000
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	<input type="text"/> ,000

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Sales of goods manufactured, logs and wood residue

1. Please provide your sales of goods manufactured, logs and wood residue by product in **thousands of Canadian dollars**. For each product, report sales net of shipping charges by common or contract carriers, discounts, sales allowances, returned sales, sales taxes, and excise duties and taxes. The total net sales for all products should equal the amount reported in question 3a. of the **Industry characteristics** section.

Product description			
<input type="text"/>	<input type="text"/>		Product code <input type="text"/>
Was this product sold during this reporting period?			
<input type="radio"/> Yes →	Quantity sold B4004_p <input type="text"/>	Unit of measure <input type="text"/>	Value of sales CAN\$ '000 F43006_p <input type="text"/> ,000
<input type="radio"/> No			

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2. All other products of own manufacture sold — please specify below:

Value of sales
CAN\$ '000

a)	<input type="text"/>	F43005_p_1	\$ <input type="text"/>	,000
b)	<input type="text"/>	F43005_p_2	\$ <input type="text"/>	,000
c)	<input type="text"/>	F43005_p_3	\$ <input type="text"/>	,000
d)	<input type="text"/>	F43005_p_4	\$ <input type="text"/>	,000

3. Total sales of goods manufactured and logging

F43007
\$,000

4. If the amount at line 3, above, includes shipping charges by common or contract carriers, discounts, sales allowances, returned sales, sales taxes, and excise duties and taxes, please report that amount here.

F62502
\$,000

5. Total sales of goods manufactured and logging (line 3 minus 4).

Note: This amount should equal question 3a. in the Industry characteristics section.

F43010
\$,000

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Purchases of raw materials and components to be used in manufacturing or logging process

1. Please provide details of your purchases of raw materials and components used in the manufacturing process. The total cost of purchases for all raw materials and components should match the amount reported in question 4a. of the **Industry characteristics** section.

Description of raw material or component			
<input type="text"/>	<input type="text"/>		
<input type="text"/>	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p <input type="radio"/> Yes → <input type="radio"/> No	Quantity purchased B40009_p <input type="text"/>	Unit of measure <input type="text"/>	Cost of purchase CAN\$ '000 F61304_p \$ <input type="text"/> ,000
Description of raw material or component			
<input type="text"/>	<input type="text"/>		
<input type="text"/>	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p <input type="radio"/> Yes → <input type="radio"/> No	Quantity purchased B40009_p <input type="text"/>	Unit of measure <input type="text"/>	Cost of purchase CAN\$ '000 F61304_p \$ <input type="text"/> ,000
Description of raw material or component			
<input type="text"/>	<input type="text"/>		
<input type="text"/>	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p <input type="radio"/> Yes → <input type="radio"/> No	Quantity purchased B40009_p <input type="text"/>	Unit of measure <input type="text"/>	Cost of purchase CAN\$ '000 F61304_p \$ <input type="text"/> ,000
Description of raw material or component			
<input type="text"/>	<input type="text"/>		
<input type="text"/>	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p <input type="radio"/> Yes → <input type="radio"/> No	Quantity purchased B40009_p <input type="text"/>	Unit of measure <input type="text"/>	Cost of purchase CAN\$ '000 F61304_p \$ <input type="text"/> ,000
Description of raw material or component			
<input type="text"/>	<input type="text"/>		
<input type="text"/>	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p <input type="radio"/> Yes → <input type="radio"/> No	Quantity purchased B40009_p <input type="text"/>	Unit of measure <input type="text"/>	Cost of purchase CAN\$ '000 F61304_p \$ <input type="text"/> ,000

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Purchases of raw materials and components to be used in manufacturing or logging process

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Description of raw material or component			
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	Product code		
	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p	Quantity purchased	Unit of measure	Cost of purchase CAN\$ '000
<input checked="" type="radio"/> Yes →	B40009_p		F61304_p
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Description of raw material or component			
<input type="text"/>	<input type="text"/>		
	Product code		
	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p	Quantity purchased	Unit of measure	Cost of purchase CAN\$ '000
<input checked="" type="radio"/> Yes →	B40009_p		F61304_p
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Description of raw material or component			
<input type="text"/>	<input type="text"/>		
	Product code		
	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p	Quantity purchased	Unit of measure	Cost of purchase CAN\$ '000
<input checked="" type="radio"/> Yes →	B40009_p		F61304_p
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000
Description of raw material or component			
<input type="text"/>	<input type="text"/>		
	Product code		
	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p	Quantity purchased	Unit of measure	Cost of purchase CAN\$ '000
<input checked="" type="radio"/> Yes →	B40009_p		F61304_p
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000

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Purchases of raw materials and components to be used in manufacturing or logging process

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Description of raw material or component			
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	Product code		
	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p	Quantity purchased	Unit of measure	Cost of purchase CAN\$ '000
<input checked="" type="radio"/> Yes →	B40009_p		F61304_p
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000

Description of raw material or component			
<input type="text"/>	<input type="text"/>		
	Product code		
	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p	Quantity purchased	Unit of measure	Cost of purchase CAN\$ '000
<input checked="" type="radio"/> Yes →	B40009_p		F61304_p
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000

Description of raw material or component			
<input type="text"/>	<input type="text"/>		
	Product code		
	<input type="text"/>		
Was this raw material or component purchased this reporting period?			
B40235_p	Quantity purchased	Unit of measure	Cost of purchase CAN\$ '000
<input checked="" type="radio"/> Yes →	B40009_p		F61304_p
<input type="radio"/> No	<input type="text"/>	<input type="text"/>	\$ <input type="text"/> ,000

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Purchases of raw materials and components to be used in manufacturing or logging process

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Description of raw material or component			
<input type="text"/>	<input type="text"/>		Product code <input type="text"/>
Was this raw material or component purchased this reporting period?			
B40235_p <input checked="" type="radio"/> Yes →	Quantity purchased B40009_p <input type="text"/>	Unit of measure <input type="text"/>	Cost of purchase CAN\$ '000 F61304_p \$ <input type="text"/> ,000
<input type="radio"/> No			

Description of raw material or component			
<input type="text"/>	<input type="text"/>		Product code <input type="text"/>
Was this raw material or component purchased this reporting period?			
B40235_p <input checked="" type="radio"/> Yes →	Quantity purchased B40009_p <input type="text"/>	Unit of measure <input type="text"/>	Cost of purchase CAN\$ '000 F61304_p \$ <input type="text"/> ,000
<input type="radio"/> No			

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Purchases of raw materials and components to be used in manufacturing or logging process

1. Please provide details of your purchases of raw materials and components used in the manufacturing process. The total cost of purchases for all raw materials and components should match the amount reported in question 4a. of the **Industry characteristics** section.

Description of raw material or component			
		Product code	
Was this raw material or component purchased this reporting period?			
<small>B40235_p</small> <input type="radio"/> Yes → <input type="radio"/> No	Quantity purchased <small>B40009_p</small> <input type="text"/>	Unit of measure <input type="text"/>	Cost of purchase CAN\$ '000 <small>F61304_p</small> \$ <input type="text"/> ,000

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2. All other raw materials and components purchased — please specify below:

Cost of purchase
CAN\$ '000

a)	<input type="text" value="B40011_lst_1"/>	\$	<input type="text" value="F61305_p_1"/>	,000
b)	<input type="text" value="B40011_lst_2"/>	\$	<input type="text" value="F61305_p_2"/>	,000
c)	<input type="text" value="B40011_lst_3"/>	\$	<input type="text" value="F61305_p_3"/>	,000
d)	<input type="text" value="B40011_lst_4"/>	\$	<input type="text" value="F61305_p_4"/>	,000

3. Total purchases of raw materials and components to be used in manufacturing or logging process.

\$	<input type="text" value="F61300"/>	,000
----	-------------------------------------	------

Note: Total should agree with the amount reported at question 4a. in the **Industry characteristics** section.

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Details on this business's locations

1. Complete for all business locations operating during this reporting period.
2. If necessary, add all locations not listed on this questionnaire on the page "details on additional locations".

Please verify the location address and correct where needed.

Location ID

Operating name

Address (number and street)

Province or territory

City

Postal code

CAN\$ '000

What was this location's **total operating revenue**?

F47001_I

000 \$

What were this location's expenses for **direct labour**?

(for manufacturing or logging only)

Exclude: benefits.

F61503_I

000 \$

What were this location's expenses for **indirect labour**?

(for administrative and selling or operating only)

Exclude: benefits.

F61504_I

000 \$

Was this business location operational for the full year?

B00305_b_I

Yes ➔ **Go to next location**

No

What were the reasons for part-year operation (mark all that apply)?

B00301_r1_I1

seasonal operation

B00301_r3_I1

change of fiscal year

B00301_r5_I1

ceased operations

B00301_r7_I1

moved

B00301_r2_I1

new location

B00301_r4_I1

change of ownership

B00301_r6_I1

temporarily inactive

B00301_r8_I

other reason — please specify:

B00301_r9_I

What were this location's operational start and end dates?

YYYY MM DD

B00201_I

Start date

YYYY MM DD

B00202_I

End date

Statistics Canada reviews all comments.

We invite your comments pertaining to this business location.

B00001_I

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Details on additional locations

1. Complete for all business locations operating during this reporting period.
2. Add all locations not listed in the previous section.

Please verify the location address and correct where needed.

Location ID

Operating name

Address (number and street)

Province or territory

City

Postal code

CAN\$ '000

What was this location's **total operating revenue**?

F47004_I

000 \$

What were this location's expenses for **direct labour**?
(for manufacturing or logging only)

F61512_I

000 \$

Exclude: benefits.

What were this location's expenses for **indirect labour**?
(for administrative and selling or operating only)

F61513_I

000 \$

Exclude: benefits.

Was this business location operational for the full year?

B00306_b_I

Yes ➔ **Go to next location**

No

What were the reasons for part-year operation (mark all that apply)?

B00307_r1_I1

seasonal operation

B00307_r3_I1

change of fiscal year

B00307_r5_I1

ceased operations

B00307_r7_I1

moved

B00307_r2_I1

new location

B00307_r4_I1

change of ownership

B00307_r6_I1

temporarily inactive

B00307_r8_I

other reason — please specify:

B00307_r9_I

What were this location's operational start and end dates?

YYYY MM DD

B00208

Start date

YYYY MM DD

B00209

End date

Statistics Canada reviews all comments.

We invite your comments pertaining to this business location.

B00015_I

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Detailed information on energy and water costs or expenses

What were this business's energy and water expenses for each of the following items?

Please report all amounts in **thousands of Canadian dollars**.

CAN\$ '000

1. Electricity	F61702	\$	<input type="text"/>	,000
2. Gasoline	F61703	\$	<input type="text"/>	,000
3. Light fuel oil	F61704	\$	<input type="text"/>	,000
4. Heavy fuel oil	F61705	\$	<input type="text"/>	,000
5. Diesel fuel	F61706	\$	<input type="text"/>	,000
6. Liquefied petroleum gas (e.g., propane and butane)	F61707	\$	<input type="text"/>	,000
7. Natural gas	F61708	\$	<input type="text"/>	,000
8. Coal	F61709	\$	<input type="text"/>	,000
9. Water utilities	F61803	\$	<input type="text"/>	,000
10. Other energy and water expenses — please specify: (e.g., steam, oxygen and hydrogen)	F61712		<input type="text"/>	
	F61711	\$	<input type="text"/>	,000
11. Total energy and water expenses (sum of questions 1 to 10)	F61700	\$	<input type="text"/>	,000

12. If you pay rent, are any of the following expenses included in the rent (and not already reported above)?
(mark all that apply)

F62102_e1

electricity

F62102_e2

water

F62102_e3

heat

13. Did this business generate any energy used as a replacement for purchased energy?

B05001_b

Yes

B05001_c

No ➔ Go to next section

14. If yes, please indicate the type of energy generated. (mark all that apply)

B05001_e1

heat

B05001_e2

electricity

B05001_e3

steam

B05001_e4

other type of energy — please specify:

B05001_e5

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Notification of intent to extract web data

1. Does this business have a website?

B00024

1 Yes



Specify the business website address

e.g., www.example.ca

F62512

2 No



Statistics Canada is piloting a web data extraction initiative, also known as web scraping, which uses software to search and compile publicly available data from business websites. As a result, we may visit the website for this business to search for, and compile, additional information. This initiative should allow us to reduce the reporting burden on businesses, as well as produce additional statistical indicators to ensure that our data remain accurate and relevant.

We will do our utmost to ensure the data are collected in a manner that will not affect the functionality of the website. Any data collected will be used by Statistics Canada for statistical and research purposes only, in accordance with the agency's mandate.

For more information regarding Statistics Canada's web scraping initiative, please visit <http://www.statcan.gc.ca/eng/our-data/where/web-scraping>.

To learn more about Statistics Canada's transparency and accountability, please visit <http://www.statcan.gc.ca/eng/transparency-accountability>.

If you have any questions or concerns, please contact **Statistics Canada Client Services**, toll-free at 1-877-949-9492 (TTY: 1-800-363-7629) or by email at infostats@canada.ca.

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General information

Confidentiality

Your answers are confidential.

By law, Statistics Canada is prohibited from releasing any information it collects that could identify any person, business, or organization, unless consent has been given by the respondent, or as permitted by the *Statistics Act*. Statistics Canada will use the information from this survey for statistical purposes only.

Data-sharing agreements

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes. Statistics Canada will only share data from this survey with those organizations that have demonstrated a requirement to use the data.

Section 11 of the *Statistics Act* provides for the sharing of information with provincial and territorial statistical agencies that meet certain conditions. These agencies must have the legislative authority to collect the same information, on a mandatory basis, and the legislation must provide substantially the same provisions for confidentiality and penalties for disclosure of confidential information as the *Statistics Act*. Because these agencies have the legal authority to compel businesses to provide the same information, consent is not requested and businesses may not object to the sharing of the data.

For this survey, there are **Section 11** agreements with the provincial and territorial statistical agencies of Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon. The shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

Section 12 of the *Statistics Act* provides for the sharing of information with federal, provincial or territorial government organizations. Under **Section 12**, you may refuse to share your information with any of these organizations by writing a letter of objection to the Chief Statistician and returning it with the completed questionnaire. Please specify the organizations with which you do not want to share your data.

For all manufacturing industries — there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with the New Brunswick Department of Environment and Local Government, the Quebec Forest Industry Council, the ministère de l'Énergie et des Ressources naturelles du Québec, the ministère des Forêts, de la Faune et des Parcs du Québec, the Ontario Ministry of Northern Development and Mines, the Ontario Ministry of Natural Resources and Forestry, Manitoba Department of Sustainable Development, Manitoba Agriculture, the Saskatchewan Ministry of the Economy, the Alberta Ministry of Agriculture and Forestry, the British Columbia Ministry of Forests, Lands and Natural Resource Operations, Agriculture and Agri-Food Canada, Environment and Climate Change Canada, Natural Resources Canada and the Canada Energy Regulator.

For establishments in non-ferrous metal (and aluminum) smelting and refining, clay building material and refractory manufacturing, cement manufacturing and lime manufacturing — there are **Section 12** agreements with the Newfoundland and Labrador Department of Natural Resources, the Manitoba Department of Mineral Resources, the British Columbia Ministry of Energy and Mines and the British Columbia Ministry of Natural Gas Development.

For agreements with provincial and territorial government organizations, the shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

Authorized disclosure

Section 17 of the federal *Statistics Act* allows for the disclosure of a list of individual establishments, firms or businesses showing information including the establishments' names and locations (province, territory and municipality) and North American Industrial Classification System (NAICS) codes. The disclosure of these lists may be authorized in order to aid analysts in the interpretation of the data from the Annual Survey of Manufacturing and Logging industries.

Record linkages

To enhance the data from this survey and to reduce the reporting burden, Statistics Canada may combine the acquired data with information from other surveys or from administrative sources.

Thank you for completing this questionnaire.

Please retain a copy for your records.

Visit our website, www.statcan.gc.ca