

# Agricultural Water Survey, 2014

Confidential when completed

Si vous préférez recevoir ce questionnaire en français, veuillez composer le 1-800-461-1662.

**Correct pre-printed information, if necessary, using the corresponding boxes below.**

Farm name (if applicable)

C0002

Telephone number

C0017

Surname or family name

C0028

First name

C0008

Address (R.R., Box no., number and street name)

C0004

City

C0005

Province

Postal code

C0006  C0007

## Information for the respondent

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### Authority

This is a voluntary survey conducted under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S19. Your cooperation is important to ensure that the information collected in this survey is as accurate as possible.

### Survey purpose

The Agricultural Water Survey is conducted to gather information on water use, irrigation methods and practices, and sources and quality of water used for agricultural purposes.

This survey is part of the Canadian Environmental Sustainability Indicators (CESI) program. The data collected will be used in CESI's reporting activities and to inform water use policy and development of programs for Canadian irrigators. Statistics Canada will also use the survey results to report on total water use by sector in Canada. Your information may also be used by Statistics Canada for other statistical and research purposes.

### Confidentiality

Statistics Canada is prohibited by law from releasing any information it collects which 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.

### Data linkage

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

### Data-sharing agreements

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with federal, provincial and territorial 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.

For this survey, there are agreements pursuant to Section 12 of the *Statistics Act* with: Agriculture and Agri-Food Canada; Environment Canada; Prince Edward Island Department of Agriculture and Forestry; New Brunswick Department of Agriculture, Aquaculture and Fisheries; Institut de la statistique du Québec; Manitoba Agriculture, Food and Rural Development; Saskatchewan Ministry of Agriculture; and Alberta Agriculture and Rural Development.

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

YOUR PARTICIPATION IN THIS SURVEY IS IMPORTANT  
REGARDLESS OF HOW MUCH IRRIGATION WAS DONE DURING THE GROWING SEASON.

## Instructions for completing this questionnaire

### - Who should complete this survey?

This survey is addressed to the farm operation and is to be completed by a person that has good knowledge of the irrigation activities practiced on this farm.

### - If exact values are not available, please provide estimates.

### - Comments on any part of the survey should be provided in the space on the second-last page of the questionnaire.

### - Please return the completed questionnaire within 30 days of receipt by mail, using the enclosed, postage paid envelope.

## Cropland and Irrigation in 2014

Please refer to the 2014 growing season when answering the following questions.

Irrigation is defined as applying water to the soil to assist the growing of crops in dry areas during periods of inadequate rainfall; to prevent soil compaction or erosion; or to protect plants against frost.

### Include:

- all irrigated land, producing or non-producing, used for forage crops, fruits, vegetables, field crops, hay and improved pasture, on owned land or land rented or leased **from others**

### Exclude:

- land rented or leased **to others**
- summerfallow
- Christmas trees
- greenhouses, nurseries and sod operations
- land drained by a drainage system that is never irrigated

## Irrigating operations

**Irrigating** is defined as applying water to the soil to assist the growing of crops in dry areas during periods of inadequate rainfall; to prevent soil compaction or erosion; or to protect plants against frost.

1. Have you ever irrigated your crops?

C0201 1  Yes

3  No → Thank you for your cooperation. Please return the questionnaire **within 30 days of receipt** by mail, using the enclosed postage paid envelope.

2. Did you irrigate your crops in 2014?

C0101 1  Yes 3  No

3. In 2014, were you unable to irrigate for any length of time because of any of the following issues?  
**Mark all that apply:**

C0301  Shortage of surface water

C0302  Shortage of underground water (include shallow wells and deep wells)

C0303  Poor water quality

C0304  High cost of obtaining water

C0305  Irrigation ban

C0306  Other issue(s), specify: C0307

C0308  No issues prevented irrigation for any length of time

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If you did not irrigate at all in 2014, please return the questionnaire **within 30 days of receipt** using the enclosed, postage paid envelope. **Otherwise, go to question 4.**

4. Will you be using **acres, hectares, or arpents** to report land areas?  
**This same unit should be used throughout the questionnaire.**

C0401 1  Acres 2  Hectares 3  Arpents

5. What was the total land area of cropland and improved pasture on this operation, producing or non-producing, that irrigation water was applied to in 2014?

C0501

6. What unit of measure will you use to report the quantity of water used for irrigation?  
**This same unit should be used throughout the survey.**

**Unit of measure used for quantity of water – check one only:**

C0604 01  Inches

05  Total gallons (US)

09  Imperial gallons per acre

02  Millimetres

06  Total litres

10  US gallons per acre

03  Total acre-feet

07  Total cubic metres

11  Other; please specify:

04  Total gallons (imperial)

08  Acre-feet per acre

C0604\_1

## Irrigation volumes – Forage crops

7a. Did you produce or grow **forage crops** on this operation during the 2014 growing season? Include hay, improved pasture and silage.

C0601    1     Yes       3     No → Go to question 8a

7b. Did you apply irrigation to **forage crops** on this operation during the 2014 growing season?

C0602    1     Yes       3     No → Go to question 8a

7c. What area of land was irrigation applied to for **forage crops**?

*Specify the total land area that received irrigation in 2014 using the unit of measure specified in question 4. A land area that received irrigation multiple times during the season should only be counted once. For example, if you irrigated 100 acres in July and the same 100 acres plus an additional 50 acres in August, the size of the irrigated crop area is 150 acres:*

C0603                 .

7d. How much water was applied to the **forage crops** in each of the following months?

*Please provide the quantity of water, as well as the irrigated land area using the unit of measure specified in question 4. Enter a "0" if there was no irrigation for a particular month.*

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2014	Quantity of water	Irrigated land area
<b>April</b>	C0605 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0613 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>May</b>	C0606 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0614 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>June</b>	C0607 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0615 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>July</b>	C0608 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0616 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>August</b>	C0609 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0617 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>September</b>	C0610 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0618 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>October</b>	C0611 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0619 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>TOTAL</b>	C0612 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	

## Irrigation volumes – Field crops

8a. Did you produce or grow **field crops, including potatoes**, on this operation during the 2014 growing season? Exclude hay, improved pasture and silage.  
*If needed, see the crop guide at the end of the questionnaire.*

C0701    1     Yes                  3     No → Go to question 9a

8b. Did you apply irrigation to **field crops, including potatoes**, on this operation during the 2014 growing season?

C0702    1     Yes                  3     No → Go to question 9a

8c. What area of land was irrigation applied to for **field crops, including potatoes**?

*Specify the total land area that received irrigation in 2014 using the unit of measure specified in question 4. A land area that received irrigation multiple times during the season should only be counted once. For example, if you irrigated 100 acres in July and the same 100 acres plus an additional 50 acres in August, the size of the irrigated crop area is 150 acres:*

C0703              .

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8d. How much water was applied to the **field crops, including potatoes**, in each of the following months?

*Please provide the quantity of water, as well as the irrigated land area using the unit of measure specified in question 4. Enter a "0" if there was no irrigation for a particular month.*

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2014	Quantity of water	Irrigated land area
April	C0705 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0713 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
May	C0706 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0714 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
June	C0707 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0715 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
July	C0708 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0716 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
August	C0709 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0717 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
September	C0710 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0718 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
October	C0711 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0719 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>TOTAL</b>	C0712 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	

**Irrigation volumes – Fruit crops**

9a. Did you produce or grow **fruit crops** on this operation during the 2014 growing season?  
*If needed, see the crop guide at the end of the questionnaire.*

C0801    1     Yes                    3     No → Go to question 10a

9b. Did you apply irrigation to **fruit crops** on this operation during the 2014 growing season?

C0802    1     Yes                    3     No → Go to question 10a

9c. What area of land was irrigation applied to for **fruit crops**?

*Specify the total land area that received irrigation in 2014 using the unit of measure specified in question 4. A land area that received irrigation multiple times during the season should only be counted once. For example, if you irrigated 100 acres in July and the same 100 acres plus an additional 50 acres in August, the size of the irrigated crop area is 150 acres:*

C0803   

9d. How much water was applied to the **fruit crops** in each of the following months?

*Please provide the quantity of water, as well as the irrigated land area using the unit of measure specified in question 4. Enter a "0" if there was no irrigation for a particular month.*

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2014	Quantity of water	Irrigated land area
April	C0805 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C0813 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
May	C0806 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C0814 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
June	C0807 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C0815 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
July	C0808 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C0816 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
August	C0809 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C0817 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
September	C0810 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C0818 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
October	C0811 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	C0819 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<b>TOTAL</b>	C0812 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	

## Irrigation volumes – Vegetable crops

10a. Did you produce or grow **vegetable crops, excluding potatoes**, on this operation during the 2014 growing season? *If needed, see the crop guide at the end of the questionnaire.*

C0901    1     Yes                    3     No → Go to question 11

10b. Did you apply irrigation to **vegetable crops, excluding potatoes**, on this operation during the 2014 growing season?

C0902    1     Yes                    3     No → Go to question 11

10c. What area of land was irrigation applied to for **vegetable crops, excluding potatoes**?

*Specify the total land area that received irrigation in 2014 using the unit of measure specified in question 4. An area that received irrigation multiple times during the season should only be counted once. For example, if you irrigated 100 acres in July and the same 100 acres plus an additional 50 acres in August, the size of the irrigated crop area is 150 acres:*

C0903              .

10d. How much water was applied to the **vegetable crops, excluding potatoes**, in each of the following months?

*Please provide the quantity of water, as well as the irrigated land area using the unit of measure specified in question 4. Enter a "0" if there was no irrigation for a particular month.*

2014	Quantity of water	Irrigated land area
<b>April</b>	C0905 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0913 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>May</b>	C0906 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0914 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>June</b>	C0907 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0915 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>July</b>	C0908 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0916 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>August</b>	C0909 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0917 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>September</b>	C0910 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0918 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>October</b>	C0911 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	C0919 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>
<b>TOTAL</b>	C0912 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	

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## Irrigation systems

11. What **irrigation method** was used to irrigate your crops in 2014? **Mark all that apply.**  
 If needed, see the crop guide at the end of the questionnaire.

	<b>Forage crops,</b> including hay, improved pasture and silage	<b>Field crops,</b> including potatoes	<b>Fruits</b>	<b>Vegetables,</b> excluding potatoes
<p><b>Sprinkler irrigation</b>                      Systems distribute water above the crop canopy using a spray. Sprinkler irrigation systems include hand move; solid or permanent set; side roll, wheel line, wheel move or wheel roll; traveller, volume gun, travelling gun, walker, overhead or circular; linear move; and centre pivot.</p>	C1001_1 <input type="checkbox"/>	C1002_1 <input type="checkbox"/>	C1003_1 <input type="checkbox"/>	C1004_1 <input type="checkbox"/>
<p><b>Micro-irrigation</b>                      Delivers water onto the soil surface very close to the crop or below the soil. It includes surface drip, sub-surface drip, micro-sprinklers, bubblers, micro jets and hand watering.</p>	C1001_2 <input type="checkbox"/>	C1002_2 <input type="checkbox"/>	C1003_2 <input type="checkbox"/>	C1004_2 <input type="checkbox"/>
<p><b>Surface irrigation</b>                      The water flows over the soil surface by gravity, either by flooding or in furrows. It includes down rows, furrows, corrugations, border dyke, level basins, uncontrolled flooding and back flooding. It excludes surface drip irrigation.</p>	C1001_3 <input type="checkbox"/>	C1002_3 <input type="checkbox"/>	C1003_3 <input type="checkbox"/>	C1004_3 <input type="checkbox"/>

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## Irrigation practices and water sources

The following questions deal with possible sources of water used for irrigation.

12. Of all the water used for irrigation in 2014, what percentage came from each of the following?

%

**On-farm** underground water or well water, including shallow wells and deep wells

C1101

**On-farm** lakes, rivers, creeks or streams, ponds or dugouts i.e. direct access (surface water)

C1102

**Off-farm** water transported **to the farm** e.g., via pipeline, canal system or vehicle, including municipal water and any surface water located **off-farm**

C1103

Other source(s), specify:

C1105

C1104

100%

If only **on-farm** water is reported in question 12 → Go to question 15  
If **off-farm** water is reported in question 12, continue to question 13

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13. Of all the **off-farm** water used for irrigation in 2014, what percentage came from each of the following?

%

Tap water

C1201

Treated wastewater

C1202

Provincial water sources (irrigation district, irrigation project)

C1203

Private sources

C1204

Other source(s), specify:

C1206

C1205

100%

14. Why did this operation need to obtain water from an **off-farm** source in 2014?  
**Mark all that apply:**

C1301  No water or not enough water available **on the farm** for irrigation

C1302  Poor quality of **on-farm** water for irrigation

C1303  Other reason(s) specify:

C1304

The following question asks about water and energy practices used for irrigation on this operation during the 2014 growing season.

15. Which of the following practices were used in 2014 to conserve water or energy?

**Mark all that apply:**

- C1401  Wind breaks
- C1402  Leaving stubble on fields (e.g., minimum tillage, direct seeding)
- C1403  Watering at night or in the morning
- C1404  Pressure reduction
- C1405  Water or energy saving nozzles
- C1406  Incorporating compost or other organic material into soil to increase soil water retention
- C1407  Other water or energy saving methods or devices
- C1408  No practices used

**Comments**

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16. Approximately how long did it take to collect the data and complete the survey? C9910    hour(s) C9909   minutes

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17. We invite your comments on any section of the survey. Please be assured that we review all comments with the intent of improving the survey.

C1501	
C1502	
C1503	
C1504	
C1505	
C1506	

Thank you for your cooperation.  
Please return the completed questionnaire within 30 days of receipt by mail, using the enclosed, postage paid envelope.

## Crop guide

### Field crops

Barley	Dry field peas	Safflower
Borage seed	Flaxseed	Soybeans
Buckwheat	Ginseng	Sugar beets
Canary seed	Lentils	Sunflower seeds
Canola	Linola	Tobacco
Caraway seed	Mixed grains	Triticale
Chick peas	Mustard seed	Wheat
Coriander seed	Oats	Other field crops
Corn for grain	Potatoes	
Dry beans	Rye	

### Fruits

Apples	Kiwis	Raspberries
Apricots	Nectarines	Saskatoon berries
Blueberries	Peaches	Strawberries
Cherries	Pears	Other fruit
Cranberries	Plums	
Grapes	Prunes	

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### Vegetables

Asparagus	Garlic	Pumpkins
Beans (green or wax)	Gherkins	Radishes
Beets	Leeks	Rhubarb
Broccoli	Lettuce	Rutabagas
Brussels sprouts	Melons (watermelon)	Spinach
Cabbage (Chinese)	Melons, other	Squash
Cabbage (regular)	Onions (dry)	Tomatoes
Carrots (including baby)	Onions, green	Turnips
Cauliflower	Parsley	Zucchini
Celery	Parsnips	Other herbs
Corn (sweet)	Peas (green)	Other vegetables
Cucumbers	Peppers	