

# Canada's Core Public Infrastructure Survey 2022

## Culture, Recreation and Sports Facilities

CONFIDENTIAL once completed.

Si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant : 1-833-977-8287

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.**

### Survey purpose

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

### Confidentiality

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 the response 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, which you will return to Statistics Canada with your completed questionnaire. In this letter, please specify the organizations with which you do not want Statistics Canada to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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.

### Approved disclosure

**Section 17** of the federal *Statistics Act* allows for the disclosure of certain information relating to an individual, business or organization. Statistics Canada will only disclose information where there is a demonstrated statistical need and for the public good, and when it will not harm individuals, organizations or businesses if data were disclosed. For Canada's Core Public Infrastructure Survey, the Chief Statistician has authorized the release of data relating to individual government entities and public utilities. These include data on assets at the aggregate and individual level. Additionally, the names of provincial, regional and municipal government organizations will be released, as well as the variables used in sampling and estimation.

### Record linkages

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

### Additional information

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*.

### Who should complete this questionnaire?

The response to the Canada's Core Public Infrastructure Survey must be coordinated by the organization's asset manager, who will ensure that each asset-specific questionnaire is completed by the manager of the asset in question.

**Please return the questionnaire within 30 days.**

If you are unable to complete within 30 days **OR** if you need help, call us at **1-833-977-8287**.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)

## Reporting Instructions

- Report dollar amounts in **thousands of Canadian dollars**.
- Declare distances or lengths in kilometers.
- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter "0" if there is no value to report.

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## Culture, Recreation and Sports Facilities

### 1. What was your organization's final inventory count of culture, recreation and sport facilities as of **December 31, 2022**?

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Count of facilities	Area (square metres)	Hectares
<b>&gt; Buildings</b>			
a. Indoor ice arenas (excluding performance or spectator 1,000 plus seats)	<input type="text"/> <small>C2B01201</small>	<input type="text"/> <small>C2B01205</small>	
b. Indoor ice arenas Performance or spectator (1,000 plus seats).	<input type="text"/> <small>C2B01131</small>	<input type="text"/> <small>C2B01206</small>	
c. Curling building	<input type="text"/> <small>C2B01132</small>	<input type="text"/> <small>C2B01207</small>	
d. Indoor pools	<input type="text"/> <small>C2B01202</small>	<input type="text"/> <small>C2B01208</small>	
e. Multi-purpose sports centre	<input type="text"/> <small>C2B01203</small>	<input type="text"/> <small>C2B01209</small>	
f. Art galleries	<input type="text"/> <small>C2B01112</small>	<input type="text"/> <small>C2B01210</small>	
g. Libraries	<input type="text"/> <small>C2B01113</small>	<input type="text"/> <small>C2B01211</small>	
h. Museums and archives	<input type="text"/> <small>C2B01114</small>	<input type="text"/> <small>C2B01212</small>	
i. Performing arts theatres	<input type="text"/> <small>C2B01115</small>	<input type="text"/> <small>C2B01213</small>	
j. Indigenous culture facilities	<input type="text"/> <small>C2B01130</small>	<input type="text"/> <small>C2B01214</small>	
k. Community centres Include senior and youth centres.	<input type="text"/> <small>C2B01116</small>	<input type="text"/> <small>C2B01215</small>	
l. Multi-purpose facilities, not elsewhere classified	<input type="text"/> <small>C2B01204</small>	<input type="text"/> <small>C2B01216</small>	

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	Count of facilities	Area (square metres)	Hectares
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**> Outdoor facilities**

<b>m.</b> Parks <b>e.g.,</b> sports fields, children's parks, nature parks	<input type="text"/> <small>C2B01217</small>		<input type="text"/> <small>C2B01219</small>
<b>n.</b> Other outdoor sports facilities	<input type="text"/> <small>C2B01218</small>		<input type="text"/> <small>C2B01220</small>
<b>o.</b> Outdoor speciality areas <b>e.g.,</b> off-leash dog parks, skateparks etc.	<input type="text"/> <small>C2B01139</small>		<input type="text"/> <small>C2B01221</small>

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**2. What was your organization’s final inventory count of culture, recreation and sport amenities included in the facilities reported in question 1 as of **December 31, 2022**?**

Provide your best estimate when exact figures are not available.  
Report “0” when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Count
<b>&gt; Ice amenities</b>	
a. Indoor ice pads and rinks	<input type="text"/> <small>C2B013201</small>
b. Outdoor skating areas and rinks	<input type="text"/> <small>C2B013202</small>
<b>&gt; Aquatics amenities</b>	
c. Indoor pools, 50 metres or longer	<input type="text"/> <small>C2B013203</small>
d. Indoor pools, less than 50 metres	<input type="text"/> <small>C2B013204</small>
e. Outdoor pools, 50 metres or longer	<input type="text"/> <small>C2B013205</small>
f. Outdoor pools, less than 50 metres	<input type="text"/> <small>C2B013206</small>
g. Outdoor spray parks, splash pads and wading pools	<input type="text"/> <small>C2B013207</small>
<b>&gt; Other amenities</b>	
h. Indoor gymnasiums	<input type="text"/> <small>C2B013208</small>
i. Indoor racquet courts	<input type="text"/> <small>C2B013209</small>
j. Indoor walking and jogging tracks	<input type="text"/> <small>C2B013210</small>
k. Indoor fitness areas e.g., weight and cardio equipment spaces	<input type="text"/> <small>C2B013211</small>
l. Indoor fields e.g., multipurpose turf area	<input type="text"/> <small>C2B013212</small>

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Count

m. Outdoor playgrounds

C2B013213

n. Outdoor racquet courts

C2B013214

o. Ball diamonds

C2B013215

p. Rectangular sports fields (natural turf)

C2B013216

q. Artificial turf sports fields

C2B013217

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**3.** Provide the distribution of your organization’s culture, recreation and sport facility inventory count based on the year of construction completion below.

Provide your best estimate when exact figures are not available.

Report “0” when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>&gt; Buildings</b>						
<b>a.</b> Indoor ice arenas (excluding performance or spectator 1,000 plus seats)	<input type="text"/> <small>C2C05001</small>	<input type="text"/> <small>C2C05101</small>	<input type="text"/> <small>C2C05301</small>	<input type="text"/> <small>C2C05401</small>	<input type="text"/> <small>C2C05501</small>	<input type="text"/> <small>C2C05601</small>
<b>b.</b> Indoor ice arenas Performance or spectator (1,000 plus seats).	<input type="text"/> <small>C2C05031</small>	<input type="text"/> <small>C2C05131</small>	<input type="text"/> <small>C2C04331</small>	<input type="text"/> <small>C2C04431</small>	<input type="text"/> <small>C2C04531</small>	<input type="text"/> <small>C2C04631</small>
<b>c.</b> Curling building	<input type="text"/> <small>C2C05032</small>	<input type="text"/> <small>C2C05132</small>	<input type="text"/> <small>C2C04332</small>	<input type="text"/> <small>C2C04432</small>	<input type="text"/> <small>C2C04532</small>	<input type="text"/> <small>C2C04632</small>
<b>d.</b> Indoor pools	<input type="text"/> <small>C2C05002</small>	<input type="text"/> <small>C2C05102</small>	<input type="text"/> <small>C2C05302</small>	<input type="text"/> <small>C2C05402</small>	<input type="text"/> <small>C2C05502</small>	<input type="text"/> <small>C2C05602</small>
<b>e.</b> Multi-purpose sports centre	<input type="text"/> <small>C2C05003</small>	<input type="text"/> <small>C2C05103</small>	<input type="text"/> <small>C2C05303</small>	<input type="text"/> <small>C2C05403</small>	<input type="text"/> <small>C2C05503</small>	<input type="text"/> <small>C2C05603</small>
<b>f.</b> Art galleries	<input type="text"/> <small>C2C05012</small>	<input type="text"/> <small>C2C05112</small>	<input type="text"/> <small>C2C04312</small>	<input type="text"/> <small>C2C04412</small>	<input type="text"/> <small>C2C04512</small>	<input type="text"/> <small>C2C04612</small>
<b>g.</b> Libraries	<input type="text"/> <small>C2C05013</small>	<input type="text"/> <small>C2C05113</small>	<input type="text"/> <small>C2C04313</small>	<input type="text"/> <small>C2C04413</small>	<input type="text"/> <small>C2C04513</small>	<input type="text"/> <small>C2C04613</small>
<b>h.</b> Museums and archives	<input type="text"/> <small>C2C05014</small>	<input type="text"/> <small>C2C05114</small>	<input type="text"/> <small>C2C04314</small>	<input type="text"/> <small>C2C04414</small>	<input type="text"/> <small>C2C4514</small>	<input type="text"/> <small>C2C04614</small>
<b>i.</b> Performing arts theatres	<input type="text"/> <small>C2C05015</small>	<input type="text"/> <small>C2C05115</small>	<input type="text"/> <small>C2C04315</small>	<input type="text"/> <small>C2C04415</small>	<input type="text"/> <small>C2C04515</small>	<input type="text"/> <small>C2C04615</small>
<b>j.</b> Indigenous culture facilities	<input type="text"/> <small>C2C05030</small>	<input type="text"/> <small>C2C05130</small>	<input type="text"/> <small>C2C04330</small>	<input type="text"/> <small>C2C04430</small>	<input type="text"/> <small>C2C04530</small>	<input type="text"/> <small>C2C04630</small>

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	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>k.</b> Community centres <b>Include</b> senior and youth centres.	<input type="text"/> C2C05016	<input type="text"/> C2C05116	<input type="text"/> C2C04316	<input type="text"/> C2C04416	<input type="text"/> C2C04516	<input type="text"/> C2C04616
<b>l.</b> Multi-purpose facilities, not elsewhere classified	<input type="text"/> C2C05004	<input type="text"/> C2C05104	<input type="text"/> C2C05304	<input type="text"/> C2C05404	<input type="text"/> C2C05504	<input type="text"/> C2C05604
<b>&gt; Outdoor facilities</b>						
<b>m.</b> Parks <b>e.g.</b> , sports fields, children's parks, nature parks	<input type="text"/> C2C05008	<input type="text"/> C2C05108	<input type="text"/> C2C05308	<input type="text"/> C2C05408	<input type="text"/> C2C05508	<input type="text"/> C2C05608
<b>n.</b> Other outdoor sports facilities	<input type="text"/> C2C05009	<input type="text"/> C2C05109	<input type="text"/> C2C05309	<input type="text"/> C2C05409	<input type="text"/> C2C05509	<input type="text"/> C2C05609
<b>o.</b> Outdoor speciality areas <b>e.g.</b> , off-leash dog parks, skateparks etc.	<input type="text"/> C2C05039	<input type="text"/> C2C05139	<input type="text"/> C2C04339	<input type="text"/> C2C04439	<input type="text"/> C2C04539	<input type="text"/> C2C04639

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4. In 2022, what was the overall physical condition of your organization's culture, recreation and sport facilities assets?

Indicate the percent distribution of your assets by using the condition rating scale. This includes items to be decommissioned. Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>&gt; Buildings</b>						
a. Indoor ice arenas (excluding performance or spectator 1,000 plus seats)	<input type="text"/> % <small>C2F07145</small>	<input type="text"/> % <small>C2F07245</small>	<input type="text"/> % <small>C2F07345</small>	<input type="text"/> % <small>C2F07445</small>	<input type="text"/> % <small>C2F07545</small>	<input type="text"/> % <small>C2F07645</small>
b. Indoor ice arenas Performance or spectator (1,000 plus seats).	<input type="text"/> % <small>C2F07131</small>	<input type="text"/> % <small>C2F07231</small>	<input type="text"/> % <small>C2F07331</small>	<input type="text"/> % <small>C2F07431</small>	<input type="text"/> % <small>C2F07531</small>	<input type="text"/> % <small>C2F07631</small>
c. Curling building	<input type="text"/> % <small>C2F07132</small>	<input type="text"/> % <small>C2F07232</small>	<input type="text"/> % <small>C2F07332</small>	<input type="text"/> % <small>C2F07432</small>	<input type="text"/> % <small>C2F07532</small>	<input type="text"/> % <small>C2F07632</small>
d. Indoor pools	<input type="text"/> % <small>C2F07146</small>	<input type="text"/> % <small>C2F07246</small>	<input type="text"/> % <small>C2F07346</small>	<input type="text"/> % <small>C2F07446</small>	<input type="text"/> % <small>C2F07546</small>	<input type="text"/> % <small>C2F07646</small>
e. Multi-purpose sports centre	<input type="text"/> % <small>C2F07147</small>	<input type="text"/> % <small>C2F07247</small>	<input type="text"/> % <small>C2F07347</small>	<input type="text"/> % <small>C2F07447</small>	<input type="text"/> % <small>C2F07547</small>	<input type="text"/> % <small>C2F07647</small>
f. Art galleries	<input type="text"/> % <small>C2F07112</small>	<input type="text"/> % <small>C2F07212</small>	<input type="text"/> % <small>C2F07312</small>	<input type="text"/> % <small>C2F07412</small>	<input type="text"/> % <small>C2F07512</small>	<input type="text"/> % <small>C2F07612</small>
g. Libraries	<input type="text"/> % <small>C2F07113</small>	<input type="text"/> % <small>C2F07213</small>	<input type="text"/> % <small>C2F07313</small>	<input type="text"/> % <small>C2F07413</small>	<input type="text"/> % <small>C2F07513</small>	<input type="text"/> % <small>C2F07613</small>
h. Museums and archives	<input type="text"/> % <small>C2F07114</small>	<input type="text"/> % <small>C2F07214</small>	<input type="text"/> % <small>C2F07314</small>	<input type="text"/> % <small>C2F07414</small>	<input type="text"/> % <small>C2F07514</small>	<input type="text"/> % <small>C2F07614</small>
i. Performing arts theatres	<input type="text"/> % <small>C2F07115</small>	<input type="text"/> % <small>C2F07215</small>	<input type="text"/> % <small>C2F07315</small>	<input type="text"/> % <small>C2F07415</small>	<input type="text"/> % <small>C2F07515</small>	<input type="text"/> % <small>C2F07615</small>
j. Indigenous culture facilities	<input type="text"/> % <small>C2F07130</small>	<input type="text"/> % <small>C2F07230</small>	<input type="text"/> % <small>C2F07330</small>	<input type="text"/> % <small>C2F07430</small>	<input type="text"/> % <small>C2F07530</small>	<input type="text"/> % <small>C2F07630</small>

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	Very poor	Poor	Fair	Good	Very good	Do not know
<b>k.</b> Community centres Include senior and youth centres.	<input type="text"/> % <small>C2F07116</small>	<input type="text"/> % <small>C2F07216</small>	<input type="text"/> % <small>C2F07316</small>	<input type="text"/> % <small>C2F07416</small>	<input type="text"/> % <small>C2F07516</small>	<input type="text"/> % <small>C2F07616</small>
<b>l.</b> Multi-purpose facilities, not elsewhere classified	<input type="text"/> % <small>C2F07144</small>	<input type="text"/> % <small>C2F07244</small>	<input type="text"/> % <small>C2F07344</small>	<input type="text"/> % <small>C2F07444</small>	<input type="text"/> % <small>C2F07544</small>	<input type="text"/> % <small>C2F07644</small>
<b>&gt; Outdoor facilities</b>						
<b>m.</b> Parks e.g., sports fields, children's parks, nature parks	<input type="text"/> % <small>C2F07148</small>	<input type="text"/> % <small>C2F07248</small>	<input type="text"/> % <small>C2F07348</small>	<input type="text"/> % <small>C2F07448</small>	<input type="text"/> % <small>C2F07548</small>	<input type="text"/> % <small>C2F07648</small>
<b>n.</b> Other outdoor sports facilities	<input type="text"/> % <small>C2F07149</small>	<input type="text"/> % <small>C2F07249</small>	<input type="text"/> % <small>C2F07349</small>	<input type="text"/> % <small>C2F07449</small>	<input type="text"/> % <small>C2F07549</small>	<input type="text"/> % <small>C2F07649</small>
<b>o.</b> Outdoor speciality areas e.g., off-leash dog parks, skateparks etc.	<input type="text"/> % <small>C2F07139</small>	<input type="text"/> % <small>C2F07239</small>	<input type="text"/> % <small>C2F07339</small>	<input type="text"/> % <small>C2F07439</small>	<input type="text"/> % <small>C2F07539</small>	<input type="text"/> % <small>C2F07639</small>

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**5. As of December 31, 2022, what was your inventory count of culture, recreation and sports facilities that were accessible?**

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Count
a. Ice facilities	<input type="text"/> <small>C2G13201</small>
b. Aquatics facilities	<input type="text"/> <small>C2G13202</small>
c. Arts and culture facilities	<input type="text"/> <small>C2G13204</small>
d. Multi-purpose facilities	<input type="text"/> <small>C2G13206</small>
e. Other facilities	<input type="text"/> <small>C2G13205</small>

**6. In 2022, what is the maximum distance residents in your municipality have to travel in order to access the following facilities?**

	Kilometres
a. Ice facilities	<input type="text"/> <small>C2G13101</small>
b. Aquatics facilities	<input type="text"/> <small>C2G13102</small>
c. Arts and culture facilities	<input type="text"/> <small>C2G13104</small>
d. Multi-purpose facilities	<input type="text"/> <small>C2G13106</small>
e. Other facilities	<input type="text"/> <small>C2G13105</small>

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**7. What is the 2022 estimated replacement value, required renewal budget, and actual renewal budget of culture, recreation and sports facilities owned by your organization?**

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

If a breakdown is not available, please provide the total.

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

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Buildings</b>			
a. Indoor ice arenas (excluding performance or spectator 1,000 plus seats)	\$ <input type="text"/> ,000 <small>C2H14147</small>	\$ <input type="text"/> ,000 <small>C2H14247</small>	\$ <input type="text"/> ,000 <small>C2H14347</small>
b. Indoor ice arenas Performance or spectator (1,000 plus seats).	\$ <input type="text"/> ,000 <small>C2H14131</small>	\$ <input type="text"/> ,000 <small>C2H14231</small>	\$ <input type="text"/> ,000 <small>C2H14331</small>
c. Curling building	\$ <input type="text"/> ,000 <small>C2H14132</small>	\$ <input type="text"/> ,000 <small>C2H14232</small>	\$ <input type="text"/> ,000 <small>C2H14332</small>
d. Indoor pools	\$ <input type="text"/> ,000 <small>C2H14148</small>	\$ <input type="text"/> ,000 <small>C2H14248</small>	\$ <input type="text"/> ,000 <small>C2H14348</small>
e. Multi-purpose sports centre	\$ <input type="text"/> ,000 <small>C2H14149</small>	\$ <input type="text"/> ,000 <small>C2H14249</small>	\$ <input type="text"/> ,000 <small>C2H14349</small>
f. Art galleries	\$ <input type="text"/> ,000 <small>C2H14112</small>	\$ <input type="text"/> ,000 <small>C2H14212</small>	\$ <input type="text"/> ,000 <small>C2H14312</small>
g. Libraries	\$ <input type="text"/> ,000 <small>C2H14113</small>	\$ <input type="text"/> ,000 <small>C2H14213</small>	\$ <input type="text"/> ,000 <small>C2H14313</small>
h. Museums and archives	\$ <input type="text"/> ,000 <small>C2H14114</small>	\$ <input type="text"/> ,000 <small>C2H14214</small>	\$ <input type="text"/> ,000 <small>C2H14314</small>
i. Performing arts theatres	\$ <input type="text"/> ,000 <small>C2H14115</small>	\$ <input type="text"/> ,000 <small>C2H14215</small>	\$ <input type="text"/> ,000 <small>C2H14315</small>
j. Indigenous culture facilities	\$ <input type="text"/> ,000 <small>C2H14130</small>	\$ <input type="text"/> ,000 <small>C2H14230</small>	\$ <input type="text"/> ,000 <small>C2H14330</small>
k. Community centres Include senior and youth centres.	\$ <input type="text"/> ,000 <small>C2H14116</small>	\$ <input type="text"/> ,000 <small>C2H14216</small>	\$ <input type="text"/> ,000 <small>C2H14316</small>
l. Multi-purpose facilities, not elsewhere classified	\$ <input type="text"/> ,000 <small>C2H14144</small>	\$ <input type="text"/> ,000 <small>C2H14244</small>	\$ <input type="text"/> ,000 <small>C2H14344</small>
<b>Total culture, recreation and sport buildings</b>	\$ <input type="text"/> ,000 <small>C2H14145</small>	\$ <input type="text"/> ,000 <small>C2H14245</small>	\$ <input type="text"/> ,000 <small>C2H14345</small>

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Outdoor facilities</b>			
<b>m. Parks</b> e.g., sports fields, children's parks, nature parks	\$ <input type="text"/> ,000 <small>C2H14151</small>	\$ <input type="text"/> ,000 <small>C2H14251</small>	\$ <input type="text"/> ,000 <small>C2H14351</small>
<b>n. Other outdoor sports facilities</b>	\$ <input type="text"/> ,000 <small>C2H14150</small>	\$ <input type="text"/> ,000 <small>C2H14250</small>	\$ <input type="text"/> ,000 <small>C2H14350</small>
<b>o. Outdoor speciality areas</b> e.g., off-leash dog parks, skateparks etc.	\$ <input type="text"/> ,000 <small>C2H14139</small>	\$ <input type="text"/> ,000 <small>C2H14239</small>	\$ <input type="text"/> ,000 <small>C2H14339</small>
<b>Total culture, recreation and sport outdoor facilities</b>	\$ <input type="text"/> ,000 <small>C2H14146</small>	\$ <input type="text"/> ,000 <small>C2H14246</small>	\$ <input type="text"/> ,000 <small>C2H14346</small>

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8. In 2022, did your organization acquire or bring into service any new culture, recreation and sport facilities for the following categories? For the new assets acquired, please provide the expected useful life.

Indicate the useful life (in years) for new assets acquired or brought into service during the year.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

> Buildings

a. Indoor ice arenas (excluding performance or spectator 1,000 plus seats)

C2H16245

1  Yes - new indoor ice arenas (excluding performance or spectator 1,000 plus seats) assets acquired in 2022



Expected indoor ice arenas (excluding performance or spectator 1,000 plus seats) useful life

C2H16145

2  No - no new indoor ice arenas (excluding performance or spectator 1,000 plus seats) assets acquired in 2022

b. Indoor ice arenas

Performance or spectator (1,000 plus seats).

C2H16231

1  Yes - new indoor ice arenas assets acquired in 2022



Expected indoor ice arenas useful life

C2H16131

2  No - no new indoor ice arenas assets acquired in 2022

c. Curling building

C2H16232

1  Yes - new curling building assets acquired in 2022



Expected curling building useful life

C2H16132

2  No - no new curling building assets acquired in 2022

#### d. Indoor pools

C2H16246

- 1  **Yes** - new indoor pools assets acquired in **2022**

↳ Expected indoor pools useful life

C2H16146

- 2  **No** - no new indoor pools assets acquired in **2022**

#### e. Multi-purpose sports center

C2H16249

- 1  **Yes** - new multi-purpose sports centre assets acquired in **2022**

↳ Expected multi-purpose sports centre useful life

C2H16149

- 2  **No** - no new multi-purpose sports centre assets acquired in **2022**

#### f. Art galleries

C2H16212

- 1  **Yes** - new art galleries assets acquired in **2022**

↳ Expected art galleries useful life

C2H16112

- 2  **No** - no new art galleries assets acquired in **2022**

#### g. Libraries

C2H16213

- 1  **Yes** - new libraries assets acquired in **2022**

↳ Expected libraries useful life

C2H16113

- 2  **No** - no new libraries assets acquired in **2022**

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### h. Museums and archives

C2H16214

- 1  **Yes** - new museums and archives assets acquired in **2022**

↳ Expected museums and archives useful life

C2H16114

- 2  **No** - no new museums and archives assets acquired in **2022**

### i. Performing arts theatres

C2H16215

- 1  **Yes** - new performing arts theatres assets acquired in **2022**

↳ Expected performing arts theatres useful life

C2H16115

- 2  **No** - no new performing arts theatres assets acquired in **2022**

### j. Indigenous culture facilities

C2H16230

- 1  **Yes** - new indigenous culture facilities assets acquired in **2022**

↳ Expected indigenous culture facilities useful life

C2H16130

- 2  **No** - no new indigenous culture facilities assets acquired in **2022**

### k. Community centres

**Include** senior and youth centres.

C2H16216

- 1  **Yes** - new community centres assets acquired in **2022**

↳ Expected community centres useful life

C2H16116

- 2  **No** - no new community centres assets acquired in **2022**



### I. Multi-purpose facilities, not elsewhere classified

C2H16244

- 1  **Yes** - new multi-purpose facilities assets acquired in **2022**

↳ Expected multi-purpose facilities useful life

C2H16144

- 2  **No** - no new multi-purpose facilities assets acquired in **2022**

### > Outdoor facilities

#### m. Parks

e.g., sports fields, children's parks, nature parks

C2H16247

- 1  **Yes** - new parks assets acquired in **2022**

↳ Expected parks useful life

C2H16147

- 2  **No** - no new parks assets acquired in **2022**

#### n. Other outdoor sports facilities

C2H16248

- 1  **Yes** - new other outdoor sports facilities assets acquired in **2022**

↳ Expected other outdoor sports facilities useful life

C2H16148

- 2  **No** - no new other outdoor sports facilities assets acquired in **2022**

#### o. Outdoor speciality areas

e.g., off-leash dog parks, skateboard parks etc.

C2H16239

- 1  **Yes** - new outdoor speciality areas assets acquired in **2022**

↳ Expected outdoor speciality areas useful life

C2H16139

- 2  **No** - no new outdoor speciality areas assets acquired in **2022**

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9. Does your organization have a documented asset management plan for culture, recreation and sports facilities?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12309

1  Yes

> At what frequency is the asset management plan for culture, recreation and sports facilities updated?

Indicate the frequency in years, if applicable.

Number of years

COG11309

2  No

> When does your organization plan to have a documented asset management plan in place for culture, recreation and sports facilities?

Indicate in how many years a plan will be implemented, if applicable.

Number of years

COG13309

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10. What type of asset management information system does your organization use for culture, recreation and sports facilities?

Select only one answer.

Type of system

COG14309

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

11. In 2022, what was the maturity level of your organization's asset management planning for culture, recreation and sports facilities?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01009

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

**12.** Do climate change adaptation or mitigation factor into your organization's decision-making process for culture, recreation and sports facilities?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Climate change adaptation and mitigation

COG00309

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

**13.** Does accessibility and universal design factor into your organization's decision-making process for culture, recreation and sports facilities?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Accessibility and universal design

COG00209

- 1  Accessibility
- 2  Universal design
- 3  Both accessibility and universal design
- 4  Not a factor
- 5  Do not know

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## Definitions

### Question 1

#### Buildings

**Include** indoor ice arenas, curling buildings, indoor pools, multipurpose sports centre, art galleries, libraries, museums and archives, performing art theatres, indigenous culture facilities, community centres (including senior and youth centres), and multi-purpose facilities not elsewhere classified owned by your organization or leased by your organization through a capital lease agreement.

#### Outdoor facilities

**Include** parks, outdoor sports facilities, and outdoor specialty areas owned by your organization or leased by your organization through a capital lease agreement.

### Question 2

**Culture, recreation and sports amenities** include any dedicated space or amenity owned or leased by your organization and used for culture, recreation or sports activities. **Include** each dedicated amenity (count each gymnasium, tennis court, etc.).

#### Ice amenities

- **Indoor ice pads and rinks:** the number of indoor ice surfaces, refrigerated or natural, used for a variety of purposes.
- **Outdoor skating areas and rinks:** artificial or natural ice surfaces used for a variety of purposes, with or without boards. **Include** traditional rectangular ice surfaces and ice paths.

#### Aquatics amenities

- **Indoor pools, 50 metres or longer:** indoor aquatics program tanks of 50 metres or longer in length (olympic-sized pools) used for a variety of individual and group aquatic activities. Count each individual tank of 50 metres or longer separately.
- **Indoor pools, less than 50 metres:** indoor aquatics program tanks and leisure pools of less than 50 metres in length used for a variety of individual and group aquatic activities. Count each individual tank of less than 50 metres in length separately.
- **Outdoor pools, 50 metres or longer:** outdoor aquatics program tank of 50 metres or longer in length (olympic-sized pools). Count each individual tank of 50 metres or longer separately.
- **Outdoor pools, less than 50 metres:** outdoor aquatics program tanks of less than 50 metres in length with greater than 18 inches in depth (i.e., not a wading pools). Count each individual tank of less than 50 metres in length separately.
- **Outdoor spray parks, splash pads and wading pools:** outdoor spray parks, wading pools or splash pads with less than 18 inch depth or no standing water.

#### Other amenities

- **Indoor gymnasiums:** indoor non-school gymnasium spaces (i.e., basketball, volleyball, badminton).
- **Indoor racquet courts:** indoor racquet courts (i.e., racquetball, squash, dedicated indoor tennis). Count each court separately.
- **Indoor walking or jogging tracks:** indoor walking or jogging space, typically around the perimeter of an ice arena, indoor field or gymnasium.
- **Indoor fitness areas:** indoor weight and cardio equipment spaces.
- **Indoor fields:** indoor multipurpose turf area, including boards or not, in a variety of building envelop types (i.e., air supported, steel).
- **Outdoor playgrounds:** outdoor park spaces with play structures such as climbing features, swing sets, etc.
- **Outdoor raquet courts:** outdoor racquet courts (i.e., racquetball, squash, dedicated indoor tennis). Count each court separately.
- **Ball diamonds:** dedicated outdoor ball diamonds of various sizes and types (i.e., youth or adult, baseball or softball, fenced or not fenced, with or without spectator seating).
- **Rectangular sports fields (natural turf):** dedicated outdoor rectangular fields of various sizes and types (i.e., youth or adult, football, soccer or rugby, with or without spectator seating).
- **Artificial turf sports fields:** outdoor synthetic or artificial turf rectangular fields.

### Question 3

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory at December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

## Definitions (continued)

### Question 4

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident; minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

#### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

#### Very good

Sound physical condition. No short-term failure risk and no work required.

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life:

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.

### Question 5

#### Accessibility

Taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

### Question 7

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, **including** demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

## Definitions (continued)

### Question 8

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

**Include** assets that were newly built, acquired or donated during the reference year.

**Exclude** the purchase or acquisition of used assets (existing assets acquired from another organization), ownership transfers, and asset betterments and renewals.

### Question 9

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

### Question 11

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

#### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

#### Optimizing (Level 4)

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

#### Excellent (Level 5)

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### Question 12

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

#### Climate change mitigation

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

### Question 13

#### Accessibility

This means taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

#### Universal design

This means supporting the usability of products and the built environment for the greatest number of people, **including** a wide spectrum of age groups and abilities. Universal design applies to the design of programs and services, technologies, transportation, instruction, and other products and environments.

# Canada's Core Public Infrastructure Survey 2022

## Potable Water

CONFIDENTIAL once completed.

Si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant : 1-833-977-8287

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.**

### Survey purpose

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

### Confidentiality

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 the response 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, which you will return to Statistics Canada with your completed questionnaire. In this letter, please specify the organizations with which you do not want Statistics Canada to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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.

### Approved disclosure

**Section 17** of the federal *Statistics Act* allows for the disclosure of certain information relating to an individual, business or organization. Statistics Canada will only disclose information where there is a demonstrated statistical need and for the public good, and when it will not harm individuals, organizations or businesses if data were disclosed. For Canada's Core Public Infrastructure Survey, the Chief Statistician has authorized the release of data relating to individual government entities and public utilities. These include data on assets at the aggregate and individual level. Additionally, the names of provincial, regional and municipal government organizations will be released, as well as the variables used in sampling and estimation.

### Record linkages

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

### Additional information

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*.

### Who should complete this questionnaire?

The response to the Canada's Core Public Infrastructure Survey must be coordinated by the organization's asset manager, who will ensure that each asset-specific questionnaire is completed by the manager of the asset in question.

**Please return the questionnaire within 30 days.**

If you are unable to complete within 30 days **OR** if you need help, call us at **1-833-977-8287**.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)



## Reporting Instructions

- Report dollar amounts in **thousands of Canadian dollars**.
- Declare distances or lengths in kilometers.
- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter "0" if there is no value to report.

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## Potable Water

**Non-linear assets:** Assets that cannot be measured in linear units (feet, metres) and have one specific address or location. Examples **include** water treatment plants, pump stations and water drainage pump stations.

**Linear assets:** Assets that can be measured in linear units (feet, metres) and do not have one specific address. Examples **include** open ditches, local water pipes and sewer pipes.

**1.** What was your organization's final inventory count of potable water assets as of **December 31, 2022**?

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Count	Capacity (volume) cubic metres per day	Capacity (volume) cubic metres
<b>&gt; Non-linear potable water assets</b>			
a. Water treatment facilities	<input type="text"/> <small>C3B02101</small>	<input type="text"/> <small>C3B02201</small>	
b. Water storage assets	<input type="text"/> <small>C3B02105</small>		<input type="text"/> <small>C3B02205</small>
c. Water pump stations	<input type="text"/> <small>C3B02104</small>	<input type="text"/> <small>C3B02204</small>	
<b>&gt; Linear potable water assets</b>			
d. Local water pipes (diameter less than 416 millimetres) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C3B03101</small>		
e. Transmission pipes (diameter greater than or equal to 416 millimetres) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C3B03102</small>		
f. Pipes (of unknown diameter) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C3B03103</small>		

2. Of the reported count for water storage assets in question 1b, how many were before the intake of a treatment plant?

Count

C3B02106

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3. Provide the distribution of your organization's potable water assets inventory based on the year of construction completion below. Provide your best estimate when exact figures are not available. Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>&gt; Non-linear potable water assets</b>						
a. Water treatment facilities	<input type="text"/> <small>C3C04701</small>	<input type="text"/> <small>C3C04801</small>	<input type="text"/> <small>C3C04301</small>	<input type="text"/> <small>C3C04401</small>	<input type="text"/> <small>C3C04501</small>	<input type="text"/> <small>C3C04601</small>
b. Water storage assets	<input type="text"/> <small>C3C04708</small>	<input type="text"/> <small>C3C04008</small>	<input type="text"/> <small>C3C04308</small>	<input type="text"/> <small>C3C04408</small>	<input type="text"/> <small>C3C04508</small>	<input type="text"/> <small>C3C04608</small>
c. Water pump stations	<input type="text"/> <small>C3C04704</small>	<input type="text"/> <small>C3C04804</small>	<input type="text"/> <small>C3C04304</small>	<input type="text"/> <small>C3C04404</small>	<input type="text"/> <small>C3C04504</small>	<input type="text"/> <small>C3C04604</small>
<b>&gt; Linear potable water assets</b>						
d. Local water pipes (diameter less than 416 millimetres) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C3C04705</small>	<input type="text"/> <small>C3C04805</small>	<input type="text"/> <small>C3C04305</small>	<input type="text"/> <small>C3C04405</small>	<input type="text"/> <small>C3C04505</small>	<input type="text"/> <small>C3C04605</small>
e. Transmission pipes (diameter greater than or equal to 416 millimetres) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C3C04706</small>	<input type="text"/> <small>C3C04806</small>	<input type="text"/> <small>C3C04306</small>	<input type="text"/> <small>C3C04406</small>	<input type="text"/> <small>C3C04506</small>	<input type="text"/> <small>C3C04606</small>
f. Pipes (of unknown diameter) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C3C04707</small>	<input type="text"/> <small>C3C04807</small>	<input type="text"/> <small>C3C04307</small>	<input type="text"/> <small>C3C04407</small>	<input type="text"/> <small>C3C04507</small>	<input type="text"/> <small>C3C04607</small>

4. In 2022, what was the overall physical condition of your organization's potable water assets?

Indicate the percent distribution of your assets by using the condition rating scale. This includes items to be decommissioned. Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>&gt; Non-linear potable water assets</b>						
a. Water treatment facilities	<input type="text"/> % <small>C3F07101</small>	<input type="text"/> % <small>C3F07201</small>	<input type="text"/> % <small>C3F07301</small>	<input type="text"/> % <small>C3F07401</small>	<input type="text"/> % <small>C3F07501</small>	<input type="text"/> % <small>C3F07601</small>
b. Water storage assets	<input type="text"/> % <small>C3F07108</small>	<input type="text"/> % <small>C3F07208</small>	<input type="text"/> % <small>C3F07308</small>	<input type="text"/> % <small>C3F07408</small>	<input type="text"/> % <small>C3F07508</small>	<input type="text"/> % <small>C3F07608</small>
c. Water pump stations	<input type="text"/> % <small>C3F07104</small>	<input type="text"/> % <small>C3F07204</small>	<input type="text"/> % <small>C3F07304</small>	<input type="text"/> % <small>C3F07404</small>	<input type="text"/> % <small>C3F07504</small>	<input type="text"/> % <small>C3F07604</small>
<b>&gt; Linear potable water assets</b>						
d. Local water pipes (diameter less than 416 millimetres)	<input type="text"/> % <small>C3F07105</small>	<input type="text"/> % <small>C3F07205</small>	<input type="text"/> % <small>C3F07305</small>	<input type="text"/> % <small>C3F07405</small>	<input type="text"/> % <small>C3F07505</small>	<input type="text"/> % <small>C3F07605</small>
e. Transmission pipes (diameter greater than or equal to 416 millimetres)	<input type="text"/> % <small>C3F07106</small>	<input type="text"/> % <small>C3F07206</small>	<input type="text"/> % <small>C3F07306</small>	<input type="text"/> % <small>C3F07406</small>	<input type="text"/> % <small>C3F07506</small>	<input type="text"/> % <small>C3F07606</small>
f. Pipes (of unknown diameter)	<input type="text"/> % <small>C3F07107</small>	<input type="text"/> % <small>C3F07207</small>	<input type="text"/> % <small>C3F07307</small>	<input type="text"/> % <small>C3F07407</small>	<input type="text"/> % <small>C3F07507</small>	<input type="text"/> % <small>C3F07607</small>

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5. What is the **2022** estimated replacement value, required renewal budget, and actual renewal budget of potable water assets owned by your organization?

Provide your best estimate when exact figures are not available.  
 Report "0" when the organization does not own or lease the asset.  
 If a breakdown is not available, please provide the total.  
 Please report all amounts in **thousands** of Canadian dollars.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Non-linear potable water assets</b>			
a. Water treatment facilities	\$ <input type="text"/> ,000 <small>C3H22101</small>	\$ <input type="text"/> ,000 <small>C3H22201</small>	\$ <input type="text"/> ,000 <small>C3H22301</small>
b. Water storage assets	\$ <input type="text"/> ,000 <small>C3H22108</small>	\$ <input type="text"/> ,000 <small>C3H22208</small>	\$ <input type="text"/> ,000 <small>C3H22308</small>
c. Water pump stations	\$ <input type="text"/> ,000 <small>C3H22104</small>	\$ <input type="text"/> ,000 <small>C3H22204</small>	\$ <input type="text"/> ,000 <small>C3H22304</small>
<b>Total for all non-linear potable water assets</b>	\$ <input type="text"/> ,000 <small>C3H22109</small>	\$ <input type="text"/> ,000 <small>C3H22209</small>	\$ <input type="text"/> ,000 <small>C3H22309</small>
<b>&gt; Linear potable water assets</b>			
d. Local water pipes (diameter less than 416 mm) Indicate length in kilometres.	\$ <input type="text"/> ,000 <small>C3H22105</small>	\$ <input type="text"/> ,000 <small>C3H22205</small>	\$ <input type="text"/> ,000 <small>C3H22305</small>
e. Transmission pipes (diameter greater than or equal to 416 mm) Indicate length in kilometres.	\$ <input type="text"/> ,000 <small>C3H22106</small>	\$ <input type="text"/> ,000 <small>C3H22206</small>	\$ <input type="text"/> ,000 <small>C3H22306</small>
f. Pipes (of unknown diameter) Indicate length in kilometres.	\$ <input type="text"/> ,000 <small>C3H22107</small>	\$ <input type="text"/> ,000 <small>C3H22207</small>	\$ <input type="text"/> ,000 <small>C3H22307</small>
<b>Total for all linear potable water assets</b>	\$ <input type="text"/> ,000 <small>C3H22110</small>	\$ <input type="text"/> ,000 <small>C3H22210</small>	\$ <input type="text"/> ,000 <small>C3H22310</small>

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6. In 2022, did your organization acquire or bring into service any new potable water assets for the following categories? For the new assets acquired, please provide the expected useful life.

Indicate the useful life (in years) for new assets acquired or brought into service during the year.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

> Non-linear potable water assets

a. Water treatment facilities

C3H24201

1  Yes - new water treatment facilities assets acquired in 2022

↳ Expected water treatment facilities useful life

C3H24101

2  No - no new water treatment facilities assets acquired in 2022

b. Water storage assets

C3H24208

1  Yes - new water storage assets acquired in 2022

↳ Expected water storage useful life

C3H24108

2  No - no new water storage assets acquired in 2022

c. Water pump stations

C3H24204

1  Yes - new water pump stations assets acquired in 2022

↳ Expected water pump stations useful life

C3H24104

2  No - no new water pump stations assets acquired in 2022

> Linear potable water assets

**d. Local water pipes (diameter less than 416 millimetres)**

C3H24205

- 1  **Yes** - new local water pipes (diameter less than 416 millimetres) assets acquired in **2022**



Expected local water pipes (diameter less than 416 millimetres) useful life

C3H24105

- 2  **No** - no new local water pipes (diameter less than 416 millimetres) assets acquired in **2022**

**e. Transmission pipes (diameter greater than or equal to 416 millimetres)**

C3H24206

- 1  **Yes** - new transmission pipes (diameter greater than or equal to 416 millimetres) assets acquired in **2022**



Expected transmission pipes (diameter greater than or equal to 416 millimetres) useful life

C3H24106

- 2  **No** - no new transmission pipes (diameter greater than or equal to 416 millimetres) assets acquired in **2022**

**f. Pipes (of unknown diameter)**

C3H24207

- 1  **Yes** - new pipes (of unknown diameter) assets acquired in **2022**



Expected pipes (of unknown diameter) useful life

C3H24107

- 2  **No** - no new pipes (of unknown diameter) assets acquired in **2022**



7. How many **sustained boil water advisories** were in place on **December 31, 2022**?

**Note: Sustained boil water advisory:** A boil water advisory exceeding 15 days in duration.

Number of sustained water advisories

C3G14201

**OR**

Do not know

C3G14202

8. Of the number of sustained boil water advisories, how many were in place for:

	Number
a. Over five years	<input type="text"/> C3G14203
b. Over one year	<input type="text"/> C3G14204
c. Over six months	<input type="text"/> C3G14205

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9. In 2022, what were the volumetric flow rates of your organizations linear potable water assets?

Indicate the percentage distribution of your assets.

	Percentage of linear potable water assets
a. Less than 99 litres per second	<input type="text"/> % <small>C3G14206</small>
b. Between 100 litres per second and 399 litres per second	<input type="text"/> % <small>C3G14207</small>
c. Greater than 400 litres per second	<input type="text"/> % <small>C3G14208</small>

10. In 2022, how many major leaks or bursts were repaired?

	Count
a. Watermains	<input type="text"/> <small>C3G14301</small>
b. Services lines	<input type="text"/> <small>C3G14303</small>

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11. Of the major leaks or bursts reported on question 10, what is the average number of days between detection and repair?

		Number of days
a.	Watermains	<input type="text"/> <small>C3G14302</small>
b.	Services lines	<input type="text"/> <small>C3G14304</small>

12. What was the length in kilometres of asbestos cement water pipes as of **December 31, 2022**?

Total length in kilometres

  
C3G14305

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13. Does your organization have an inventory of the number of lead water service connections or lead water pipes?

C3G14401

1  Yes



➤ What was the total amount of lead water service connections or lead water service pipes as of **December 31, 2022**?

Count

C3G14402

➤ What percentage of your organization's service connections or pipes contained lead in **2022**?

Percentage

 %

C3G14403

➤ Does your organization's inventory of lead service connections or lead water pipes identify partial lead service connections (homeowner or municipal)?

C3G14404

1  Yes

2  No

➤ What percentage of your organization's inventory of lead service connections or lead water pipes was identified as full service connections (i.e., municipal and homeowner portions) in **2022**?

Percentage

 %

C3G14405

2  No

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**14. Did your organization have a lead service line replacement program in place in 2022?**

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

C3G14406

1  Yes



> Did the program address both the municipal and homeowner portions of the replacement?

C3G14407

1  Yes

2  No

> Did the program include incentives or loans to the homeowner to replace their portion of the lead service connection?

C3G14408

1  Yes

2  No

> When was this program implemented?

C3G14409

Date

YYYY				MM		DD			

> What was the budget for this program?

Budget CAN\$ '000

\$  ,000

C3G14410

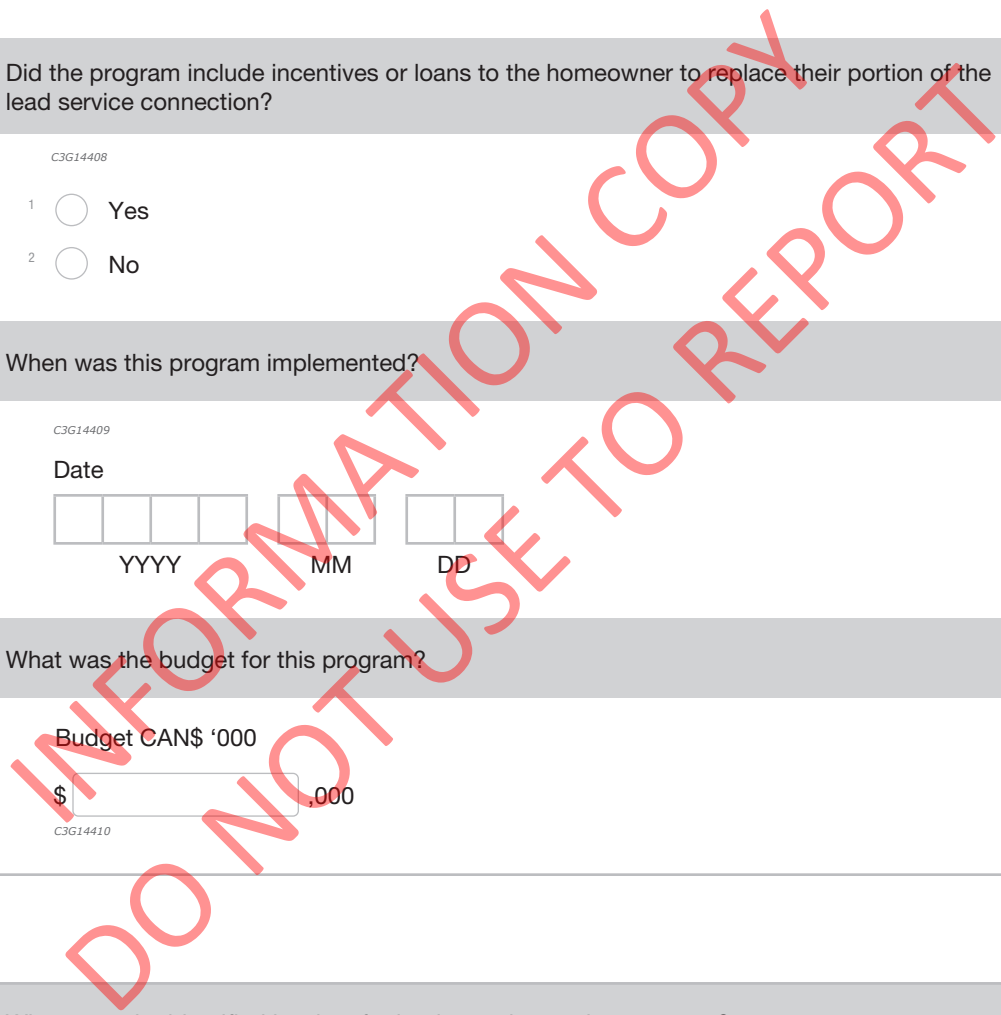
2  No



> What were the identified barriers for implementing such a program?

Specify the barriers

C3G14411



15. What percentage of the inventory of lead service connections or lead pipes was replaced in 2022?

Percentage

 %

C3G14412

16. Of the lead service connections or lead water pipes replaced in 2022, what percentage was full replacement (i.e., municipal and homeowner portions)?

Percentage

 %

C3G14413

17. What was the cost of the lead service connections or lead water pipes replaced in 2022?

Cost CAN\$ '000

\$  ,000

C3G14414

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**18.** Did your organization have a corrosion control program in place in **2022**?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

C3G14415

1  Yes

2  No

**19.** Does your organization have the resources or capacity to track information regarding lead service connections or the lead concentrations in tap water?

C3G14416

1  Yes

2  No

**20.** Did your organization conduct sampling to measure lead concentrations in tap water in **2022**?

C3G14417

1  Yes

➤ What percentage of the most recent lead concentration results was sampled in residences supplied by a lead service connection?

Percentage

 %

C3G14418

➤ What was the average lead concentration for samples taken in residences supplied by a lead service connection?

Concentration (micrograms per litre or µg/L)

C3G14419

2  No

**21.** Does your organization have a documented asset management plan for potable water?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12302

1  Yes



➤ At what frequency is the asset management plan for potable water updated?

**Indicate** the frequency in years, if applicable.

Number of years

COG11302

2  No



➤ When does your organization plan to have a documented asset management plan in place for potable water?

**Indicate** in how many years a plan will be implemented, if applicable.

Number of years

COG13302

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**22.** What type of asset management information system does your organization use for potable water?

Select only one answer.

Type of system

COG14302

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

**23.** In **2022**, what was the maturity level of your organization's asset management planning for potable water?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01002

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

**24.** Do climate change adaptation or mitigation factor into your organization's decision-making process for potable water?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Climate change adaptation and mitigation

COG00302

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

## Definitions

### Question 1

#### Potable water assets

##### Non-linear potable water system assets

**Include** water treatment facilities, water storage assets (**including** impounded reservoirs and dams before intake and storage tanks or cisterns after intake not part of a treatment plant), and water pump stations owned by your organization or leased by your organization through a capital lease agreement.

**Exclude** water treatment facility high or low lift pump stations.

##### Linear potable water system assets (pipes)

**Include** local water pipes (diameter less than 416 millimetres) and transmission pipes (diameter greater than or equal to 416 millimetres) owned by your organization or leased by your organization through a capital lease agreement.

**Exclude** service connections, hydrant leads, and standpipe leads.

### Question 3

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory at December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

### Question 4

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident; minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

#### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

#### Very good

Sound physical condition. No short-term failure risk and no work required.

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life.

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.

## Definitions (continued)

### Question 5

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, **including** demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

### Question 6

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

**Include** assets that were newly built, acquired or donated during the reference year.

**Exclude** the purchase or acquisition of used assets (existing assets acquired from another organization), ownership transfers, and asset betterments and renewals.

### Question 14

#### Lead Water Service Line Replacement Program:

Replacement of lead water service pipes that are owned by the City (the portion of water service pipes that runs from the watermain on the street to the property line) and any services, incentives or information provided to homeowners to support the replacement of the property owner’s portion of the lead service line (the portion of water service pipes that runs from the property line into the home).

### Question 18

#### Corrosion control program:

The monitoring program implemented to assess if and to what degree corrosion may be occurring in a drinking water distribution system and to take corrective measures when needed. Here, “corrosion control” refers to the action of controlling the leaching of metals, specifically lead, that results from the corrosion of materials in drinking water distribution systems.

### Question 21

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

## Definitions (continued)

### Question 23

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

#### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

#### Optimizing (Level 4)

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

#### Excellent (Level 5)

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### Question 24

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

#### Climate change mitigation

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

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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.**

**Survey purpose**

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

**Confidentiality**

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 the response 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, which you will return to Statistics Canada with your completed questionnaire. In this letter, please specify the organizations with which you do not want Statistics Canada to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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.

**Approved disclosure**

**Section 17** of the federal *Statistics Act* allows for the disclosure of certain information relating to an individual, business or organization. Statistics Canada will only disclose information where there is a demonstrated statistical need and for the public good, and when it will not harm individuals, organizations or businesses if data were disclosed. For Canada's Core Public Infrastructure Survey, the Chief Statistician has authorized the release of data relating to individual government entities and public utilities. These include data on assets at the aggregate and individual level. Additionally, the names of provincial, regional and municipal government organizations will be released, as well as the variables used in sampling and estimation.

**Record linkages**

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

**Additional information**

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*.

**Who should complete this questionnaire?**

The response to the Canada's Core Public Infrastructure Survey must be coordinated by the organization's asset manager, who will ensure that each asset-specific questionnaire is completed by the manager of the asset in question.

**Please return the questionnaire within 30 days.**

If you are unable to complete within 30 days **OR** if you need help, call us at **1-833-977-8287**.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)



## Reporting Instructions

- Report dollar amounts in **thousands of Canadian dollars**.
- Declare distances or lengths in kilometers.
- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter "0" if there is no value to report.

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## Wastewater

**1. What was your organization's final inventory count of wastewater assets as of December 31, 2022?**

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Count	Design capacity (volume) Cubic metres per day	Design capacity (volume) Cubic metres
<b>Non-linear wastewater assets</b>			
a. Wastewater treatment plants <b>Include</b> sludge handling plants.	<input type="text"/> <small>C8B02101</small>	<input type="text"/> <small>C8B02201</small>	
b. Lagoon systems	<input type="text"/> <small>C8B02102</small>	<input type="text"/> <small>C8B02202</small>	
c. Wastewater pump stations	<input type="text"/> <small>C8B02103</small>	<input type="text"/> <small>C8B02203</small>	
d. Wastewater lift stations	<input type="text"/> <small>C8B02104</small>	<input type="text"/> <small>C8B02204</small>	
e. Wastewater storage tanks	<input type="text"/> <small>C8B02105</small>		<input type="text"/> <small>C8B02205</small>
<b>Linear wastewater assets</b>			
f. Sewer pipes (diameter less than 450 millimetres) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C8B03101</small>		
g. Sewer pipes (diameter greater than or equal to 450 millimetres and less than 1500 millimetres) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C8B03102</small>		
h. Sewer pipes (diameter greater than or equal to 1500 millimetres) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C8B03103</small>		
i. Sewer pipes (of unknown diameter) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C8B03104</small>		
j. Sanitary forcemains <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C8B03105</small>		

2. Provide the distribution of your organization’s wastewater asset inventory based on the year of construction completion below.

Provide your best estimate when exact figures are not available.

Report “0” when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>Non-linear wastewater assets</b>						
a. Wastewater treatment plants Include sludge handling plants.	<input type="text"/> <small>C8C04801</small>	<input type="text"/> <small>C8C05101</small>	<input type="text"/> <small>C8C04301</small>	<input type="text"/> <small>C8C04401</small>	<input type="text"/> <small>C8C04601</small>	<input type="text"/> <small>C8C04601</small>
b. Lagoon systems	<input type="text"/> <small>C8C04802</small>	<input type="text"/> <small>C8C05102</small>	<input type="text"/> <small>C8C04302</small>	<input type="text"/> <small>C8C04402</small>	<input type="text"/> <small>C8C04502</small>	<input type="text"/> <small>C8C04602</small>
c. Wastewater pump stations	<input type="text"/> <small>C8C04803</small>	<input type="text"/> <small>C8C05103</small>	<input type="text"/> <small>C8C04303</small>	<input type="text"/> <small>C8C04403</small>	<input type="text"/> <small>C8C04503</small>	<input type="text"/> <small>C8C04603</small>
d. Wastewater lift stations	<input type="text"/> <small>C8C04804</small>	<input type="text"/> <small>C8C05104</small>	<input type="text"/> <small>C8C04304</small>	<input type="text"/> <small>C8C04404</small>	<input type="text"/> <small>C8C04504</small>	<input type="text"/> <small>C8C04604</small>
e. Wastewater storage tanks	<input type="text"/> <small>C8C04805</small>	<input type="text"/> <small>C8C05105</small>	<input type="text"/> <small>C8C04305</small>	<input type="text"/> <small>C8C04405</small>	<input type="text"/> <small>C8C04505</small>	<input type="text"/> <small>C8C04605</small>
<b>Linear wastewater assets</b>						
f. Sewer pipes (diameter less than 450 millimetres) Indicate length in kilometres.	<input type="text"/> <small>C8C04806</small>	<input type="text"/> <small>C8C05106</small>	<input type="text"/> <small>C8C04306</small>	<input type="text"/> <small>C8C04406</small>	<input type="text"/> <small>C8C04506</small>	<input type="text"/> <small>C8C04606</small>
g. Sewer pipes (diameter greater than or equal to 450 millimetres and less than 1500 millimetres) Indicate length in kilometres.	<input type="text"/> <small>C8C04807</small>	<input type="text"/> <small>C8C05107</small>	<input type="text"/> <small>C8C04307</small>	<input type="text"/> <small>C8C04407</small>	<input type="text"/> <small>C8C04507</small>	<input type="text"/> <small>C8C04607</small>
h. Sewer pipes (diameter greater than or equal to 1500 millimetres) Indicate length in kilometres.	<input type="text"/> <small>C8C04808</small>	<input type="text"/> <small>C8C05108</small>	<input type="text"/> <small>C8C04308</small>	<input type="text"/> <small>C8C04408</small>	<input type="text"/> <small>C8C04508</small>	<input type="text"/> <small>C8C04608</small>
i. Sewer pipes (of unknown diameter) Indicate length in kilometres.	<input type="text"/> <small>C8C04809</small>	<input type="text"/> <small>C8C05109</small>	<input type="text"/> <small>C8C04309</small>	<input type="text"/> <small>C8C04409</small>	<input type="text"/> <small>C8C04509</small>	<input type="text"/> <small>C8C04609</small>
j. Sanitary forcemains Indicate length in kilometres.	<input type="text"/> <small>C8C04810</small>	<input type="text"/> <small>C8C05110</small>	<input type="text"/> <small>C8C04310</small>	<input type="text"/> <small>C8C04410</small>	<input type="text"/> <small>C8C04510</small>	<input type="text"/> <small>C8C04610</small>

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3. In 2022, what was the overall physical condition of your organization's wastewater assets?

Indicate the percent distribution of your assets by using the condition rating scale. This includes items to be decommissioned. Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>Non-linear wastewater assets</b>						
a. Wastewater treatment plants Include sludge handling plants.	<input type="text"/> % <small>CBF07101</small>	<input type="text"/> % <small>CBF07201</small>	<input type="text"/> % <small>CBF07301</small>	<input type="text"/> % <small>CBF07401</small>	<input type="text"/> % <small>CBF07501</small>	<input type="text"/> % <small>CBF07601</small>
b. Lagoon systems	<input type="text"/> % <small>CBF07102</small>	<input type="text"/> % <small>CBF07202</small>	<input type="text"/> % <small>CBF07302</small>	<input type="text"/> % <small>CBF07402</small>	<input type="text"/> % <small>CBF07502</small>	<input type="text"/> % <small>CBF07602</small>
c. Wastewater pump stations	<input type="text"/> % <small>CBF07103</small>	<input type="text"/> % <small>CBF07203</small>	<input type="text"/> % <small>CBF07303</small>	<input type="text"/> % <small>CBF07403</small>	<input type="text"/> % <small>CBF07503</small>	<input type="text"/> % <small>CBF07603</small>
d. Wastewater lift stations	<input type="text"/> % <small>CBF07104</small>	<input type="text"/> % <small>CBF07204</small>	<input type="text"/> % <small>CBF07304</small>	<input type="text"/> % <small>CBF07404</small>	<input type="text"/> % <small>CBF07504</small>	<input type="text"/> % <small>CBF07604</small>
e. Wastewater storage tanks	<input type="text"/> % <small>CBF07105</small>	<input type="text"/> % <small>CBF07205</small>	<input type="text"/> % <small>CBF07305</small>	<input type="text"/> % <small>CBF07405</small>	<input type="text"/> % <small>CBF07505</small>	<input type="text"/> % <small>CBF07605</small>
<b>Non-linear wastewater assets</b>						
f. Sewer pipes (diameter less than 450 millimetres)	<input type="text"/> % <small>CBF07106</small>	<input type="text"/> % <small>CBF07206</small>	<input type="text"/> % <small>CBF07306</small>	<input type="text"/> % <small>CBF07406</small>	<input type="text"/> % <small>CBF07506</small>	<input type="text"/> % <small>CBF07606</small>
g. Sewer pipes (diameter greater than or equal to 450 millimetres and less than 1500 millimetres)	<input type="text"/> % <small>CBF07107</small>	<input type="text"/> % <small>CBF07207</small>	<input type="text"/> % <small>CBF07307</small>	<input type="text"/> % <small>CBF07407</small>	<input type="text"/> % <small>CBF07507</small>	<input type="text"/> % <small>CBF07607</small>
h. Sewer pipes (diameter greater than or equal to 1500 millimetres)	<input type="text"/> % <small>CBF07108</small>	<input type="text"/> % <small>CBF07208</small>	<input type="text"/> % <small>CBF07308</small>	<input type="text"/> % <small>CBF07408</small>	<input type="text"/> % <small>CBF07508</small>	<input type="text"/> % <small>CBF07608</small>
i. Sewer pipes (of unknown diameter)	<input type="text"/> % <small>CBF07109</small>	<input type="text"/> % <small>CBF07209</small>	<input type="text"/> % <small>CBF07309</small>	<input type="text"/> % <small>CBF07409</small>	<input type="text"/> % <small>CBF07509</small>	<input type="text"/> % <small>CBF07609</small>
j. Sanitary forcemains	<input type="text"/> % <small>CBF07110</small>	<input type="text"/> % <small>CBF07210</small>	<input type="text"/> % <small>CBF07310</small>	<input type="text"/> % <small>CBF07410</small>	<input type="text"/> % <small>CBF07510</small>	<input type="text"/> % <small>CBF07610</small>

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4. In 2022, what were the volumetric flow rates of your organizations linear wastewater assets?

Indicate the percent distribution of your assets.

	Percentage of wastewater assets
a. Less than 400 litres per second	<input type="text"/> % <small>CBG18201</small>
b. Between 400 litres per second and 1 049 litres per second	<input type="text"/> % <small>CBG18202</small>
c. Greater than 1 050 litres per second	<input type="text"/> % <small>CBG18203</small>

5. In 2022, how many major leaks or bursts were repaired?

	Count
a. Sanitary sewer mains	<input type="text"/> <small>CBG18204</small>
b. Lateral sewer lines	<input type="text"/> <small>CBG18206</small>

6. Of the major leaks or bursts reported on question 5, what is the average number of days between detection and reparation of the leaks?

	Number of days
a. Sanitary sewer mains	<input type="text"/> <small>CBG18205</small>
b. Lateral sewer lines	<input type="text"/> <small>CBG18207</small>

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7. In 2022, what was the volume of untreated wastewater released as a result of a disruption or planned maintenance to your organization's wastewater system (collection or treatment)?

**Do not include** wastewater released due to precipitation (including snowmelt) from combined sewers, unless this release was also as a result of a disruption.

Volume of untreated wastewater in cubic metres

CBG18101

**OR**

Did not calculate

CBG18102

**OR**

Do not know

CBG18103

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8. What were the causes of the service disruptions in 2022?

Select all that apply.

1  Pump station or lift station failure not due to power outage

C8G26101

1  Power outage

C8G26102

1  Flooding

C8G26103

1  Planned maintenance

C8G26104

1  Other

C8G26105

Specify the other cause of service disruption

C8G26205

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9. Does your organization's wastewater system need to be upgraded to meet the effluent quality standards of the **Federal Wastewater Systems Effluent Regulations**?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

1 Yes  
CBG29101

2 No

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10. In 2022, how many total hours and days was untreated wastewater released from combined sewers?

Days

CBG17101

Hours

CBG17102

OR

<sup>1</sup>

Do not know

CBG17103

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**11.** What is the **2022** estimated replacement value, required renewal budget, and actual renewal budget of wastewater assets owned by your organization?

Provide your best estimate when exact figures are not available.  
 Report "0" when the organization does not own or lease the asset.  
 If a breakdown is not available, please provide the total.  
 Report all amounts in **thousands** of Canadian dollars.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>Non-linear wastewater assets</b>			
a. Wastewater treatment plants Include sludge handling plants.	\$ <input type="text"/> ,000 <small>C8H34101</small>	\$ <input type="text"/> ,000 <small>C8H34201</small>	\$ <input type="text"/> ,000 <small>C8H34301</small>
b. Lagoon systems	\$ <input type="text"/> ,000 <small>C8H34102</small>	\$ <input type="text"/> ,000 <small>C8H34202</small>	\$ <input type="text"/> ,000 <small>C8H34302</small>
c. Wastewater pump stations	\$ <input type="text"/> ,000 <small>C8H34103</small>	\$ <input type="text"/> ,000 <small>C8H34203</small>	\$ <input type="text"/> ,000 <small>C8H34303</small>
d. Wastewater lift stations	\$ <input type="text"/> ,000 <small>C8H34104</small>	\$ <input type="text"/> ,000 <small>C8H34204</small>	\$ <input type="text"/> ,000 <small>C8H34304</small>
e. Wastewater storage tanks	\$ <input type="text"/> ,000 <small>C8H34105</small>	\$ <input type="text"/> ,000 <small>C8H34205</small>	\$ <input type="text"/> ,000 <small>C8H34305</small>
<b>Total for all non-linear wastewater assets</b>	\$ <input type="text"/> ,000 <small>C8H34111</small>	\$ <input type="text"/> ,000 <small>C8H34211</small>	\$ <input type="text"/> ,000 <small>C8H34311</small>
<b>Linear wastewater assets</b>			
f. Sewer pipes (diameter less than 450 millimetres)	\$ <input type="text"/> ,000 <small>C8H34106</small>	\$ <input type="text"/> ,000 <small>C8H34206</small>	\$ <input type="text"/> ,000 <small>C8H34306</small>
g. Sewer pipes (diameter greater than or equal to 450 millimetres and less than 1500 millimetres)	\$ <input type="text"/> ,000 <small>C8H34107</small>	\$ <input type="text"/> ,000 <small>C8H34207</small>	\$ <input type="text"/> ,000 <small>C8H34307</small>
h. Sewer pipes (diameter greater than or equal to 1500 millimetres)	\$ <input type="text"/> ,000 <small>C8H34108</small>	\$ <input type="text"/> ,000 <small>C8H34208</small>	\$ <input type="text"/> ,000 <small>C8H34308</small>
i. Sewer pipes (of unknown diameter)	\$ <input type="text"/> ,000 <small>C8H34109</small>	\$ <input type="text"/> ,000 <small>C8H34209</small>	\$ <input type="text"/> ,000 <small>C8H34309</small>
j. Sanitary forcemains	\$ <input type="text"/> ,000 <small>C8H34110</small>	\$ <input type="text"/> ,000 <small>C8H34210</small>	\$ <input type="text"/> ,000 <small>C8H34310</small>
<b>Total for all linear wastewater assets</b>	\$ <input type="text"/> ,000 <small>C8H34112</small>	\$ <input type="text"/> ,000 <small>C8H34212</small>	\$ <input type="text"/> ,000 <small>C8H34312</small>

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**12.** In **2022**, did your organization acquire or bring into service any new wastewater assets for the following categories? For the new assets acquired, please provide the expected useful life.

**Indicate** the useful life (in years) for new assets acquired or brought into service during the year.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

**> Non-linear wastewater assets**

**a. Wastewater treatment plants**

CBH36201

1  **Yes** - new wastewater treatment plants assets acquired in **2022**



Expected wastewater treatment plants useful life

CBH36101

2  **No** - no new wastewater treatment plants assets acquired in **2022**

**b. Lagoon systems**

CBH36202

1  **Yes** - new lagoon systems assets acquired in **2022**



Expected lagoon systems useful life

CBH36102

2  **No** - no new lagoon systems assets acquired in **2022**

**c. Wastewater pump stations**

CBH36203

1  **Yes** - new wastewater pump stations assets acquired in **2022**



Expected wastewater pump stations useful life

CBH36103

2  **No** - no new wastewater pump stations assets acquired in **2022**

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#### d. Wastewater lift stations

CBH36204

- 1  **Yes** - new wastewater lift stations assets acquired in **2022**

↳ Expected wastewater lift stations useful life

CBH36104

- 2  **No** - no new wastewater lift stations assets acquired in **2022**

#### e. Wastewater storage tanks

CBH36205

- 1  **Yes** - new wastewater storage tanks assets acquired in **2022**

↳ Expected wastewater storage tanks useful life

CBH36105

- 2  **No** - no new wastewater storage tanks assets acquired in **2022**

#### > Linear wastewater assets

#### f. Sewer pipes (diameter less than 450 millimetres)

CBH36206

- 1  **Yes** - new sewer pipes (diameter less than 450 millimetres) assets acquired in **2022**

↳ Expected sewer pipes (diameter less than 450 millimetres) useful life

CBH36106

- 2  **No** - no new sewer pipes (diameter less than 450 millimetres) assets acquired in **2022**

#### g. Sewer pipes (diameter greater than or equal to 450 millimetres and less than 1500 millimetres)

CBH36207

- 1  **Yes** - new sewer pipes (diameter greater than or equal to 450 millimetres and less than 1500 millimetres) assets acquired in **2022**

↳ Expected sewer pipes (diameter greater than or equal to 450 millimetres and less than 1500 millimetres) useful life

CBH36107

- 2  **No** - no new sewer pipes (diameter greater than or equal to 450 millimetres and less than 1500 millimetres) assets acquired in **2022**

### h. Sewer pipes (diameter greater than or equal to 1500 millimetres)

CBH36208

- 1  **Yes** - new sewer pipes (diameter greater than or equal to 1500 millimetres) assets acquired in **2022**

↳ Expected sewer pipes (diameter greater than or equal to 1500 millimetres) useful life

CBH36108

- 2  **No** - no new sewer pipes (diameter greater than or equal to 1500 millimetres) assets acquired in **2022**

### i. Sewer pipes (of unknown diameter)

CBH36209

- 1  **Yes** - new sewer pipes (of unknown diameter) assets acquired in **2022**

↳ Expected sewer pipes (of unknown diameter) useful life

CBH36109

- 2  **No** - no new sewer pipes (of unknown diameter) assets acquired in **2022**

### j. Sanitary forcemains

CBH36210

- 1  **Yes** - new sanitary forcemains assets acquired in **2022**

↳ Expected sanitary forcemains useful life

CBH36110

- 2  **No** - no new sanitary forcemains assets acquired in **2022**

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13. Does your organization have a documented asset management plan for wastewater?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12304

1  Yes



> At what frequency is the asset management plan for wastewater updated?  
**Indicate** the frequency in years, if applicable.

Number of years

COG11304

2  No



> When does your organization plan to have a documented asset management plan in place for wastewater?  
**Indicate** in how many years a plan will be implemented, if applicable.

Number of years

COG13304

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14. What type of asset management information system does your organization use for wastewater?

Select only one answer.

Type of system

COG14304

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

15. In 2022, what was the maturity level of your organization's asset management planning for wastewater?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01004

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

16. Do climate change adaptation or mitigation factor into your organization's decision-making process for wastewater?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Climate change adaptation and mitigation

COG00304

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

## Definitions

### Question 1

**Non-linear assets:** Assets that cannot be measured in linear units (feet, metres) and have one specific address or location. Examples include wastewater treatment plants, pump stations and water drainage pump stations.

**Linear assets:** Assets that can be measured in linear units (feet, metres) and do not have one specific address. Examples include open ditches, local water pipes and sewer pipes.

#### Wastewater assets

##### Non-linear wastewater assets

**Includes** wastewater treatment plants (mechanical), lagoon systems, wastewater pump stations, wastewater lift stations and wastewater storage tanks owned by your organization or leased by your organization through a capital lease agreement.

**Exclude** lagoon systems from a. Wastewater treatment plants (report these under b. Lagoon systems).

##### Linear wastewater assets

**Includes** sewer pipes and sanitary force mains owned by your organization or leased by your organization through a capital lease agreement.

### Question 2

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory at December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

### Question 3

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident; minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

#### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

#### Very good

Sound physical condition. No short-term failure risk and no work required.

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life:

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.

## Definitions (continued)

### Question 9

The **Wastewater Systems Effluent Regulations (WSER)** set national effluent quality standards for wastewater systems achievable through secondary wastewater treatment. The regulations apply to wastewater systems designed to collect an average daily influent volume of at least 100 cubic metres.

Only answer “Yes” if the wastewater system is subject to the WSER and upgrades are for the purpose of meeting the Wastewater Systems Effluent Regulations standards for carbonaceous biochemical oxygen demanding matter (CBOD), suspended solids, total residual chlorine, un-ionized ammonia and acute lethality.

The following geographies are not subject to the WSER:

- Northwest Territories, Nunavut, and north of the 54th parallel in Quebec and Newfoundland and Labrador
- Yukon and Quebec, as there are equivalency agreements in place for these jurisdictions.

### Question 11

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, **including** demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

### Question 12

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

**Include** assets that were newly built, acquired or donated during the reference year.

**Exclude** the purchase or acquisition of used assets (existing assets acquired from another organization), ownership transfers, and asset betterments and renewals.

### Question 13

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

## Definitions (continued)

### Question 15

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

#### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

#### Optimizing (Level 4)

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

#### Excellent (Level 5)

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### Question 16

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

#### Climate change mitigation

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

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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.

#### Survey purpose

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

#### Confidentiality

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 the response 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, which you will return to Statistics Canada with your completed questionnaire. In this letter, please specify the organizations with which you do not want Statistics Canada to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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.

#### Approved disclosure

**Section 17** of the federal *Statistics Act* allows for the disclosure of certain information relating to an individual, business or organization. Statistics Canada will only disclose information where there is a demonstrated statistical need and for the public good, and when it will not harm individuals, organizations or businesses if data were disclosed. For Canada's Core Public Infrastructure Survey, the Chief Statistician has authorized the release of data relating to individual government entities and public utilities. These include data on assets at the aggregate and individual level. Additionally, the names of provincial, regional and municipal government organizations will be released, as well as the variables used in sampling and estimation.

#### Record linkages

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

#### Additional information

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*.

#### Who should complete this questionnaire?

The response to the Canada's Core Public Infrastructure Survey must be coordinated by the organization's asset manager, who will ensure that each asset-specific questionnaire is completed by the manager of the asset in question.

Please return the questionnaire within 30 days.

If you are unable to complete within 30 days OR if you need help, call us at 1-833-977-8287.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)



## Reporting Instructions

- Report dollar amounts in **thousands of Canadian dollars**.
- Declare distances or lengths in kilometers.
- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter "0" if there is no value to report.

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## Stormwater

**Non-linear assets:** Assets that cannot be measured in linear units (feet, metres) and have one specific address or location. Examples include wastewater treatment plants, pump stations and water drainage pump stations.

**Linear assets:** Assets that can be measured in linear units (feet, metres) and do not have one specific address. Examples include open ditches, local water pipes and sewer pipes.

**1.** What was your organization's final inventory count of stormwater assets as of **December 31, 2022**?

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Count	Capacity (volume) cubic metres per day
<b>&gt; Non-linear stormwater assets</b>		
<b>a.</b> Stormwater drainage pump stations	<input type="text"/> <small>C7B01101</small>	<input type="text"/> <small>C7B01201</small>
<b>b.</b> Stormwater management ponds and stormwater wetlands	<input type="text"/> <small>C7B01102</small>	<input type="text"/> <small>C7B01202</small>
<b>c.</b> Stormwater management facilities - all other permitted end-of-pipe facilities	<input type="text"/> <small>C7B01103</small>	<input type="text"/> <small>C7B01203</small>
<b>&gt; Linear stormwater assets</b>		
<b>d.</b> Culverts (diameter less than 3 metres) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7B01104</small>	
<b>e.</b> Open ditches <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7B01105</small>	
<b>f.</b> Stormwater pipes (diameter less than 450 millimeters) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7B01106</small>	
<b>g.</b> Stormwater pipes (diameter greater or equal to 450 millimeters and less than 1500 millimeters) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7B01107</small>	
<b>h.</b> Stormwater pipes (diameter greater or equal to 1500 millimeters) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7B01108</small>	
<b>i.</b> Stormwater pipes (of unknown diameter) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7B01109</small>	

**2.** Provide the distribution of your organization's stormwater asset inventory based on the year of construction completion below.

Provide your best estimate when exact figures are not available.

Report "0" when no assets completed construction during the period.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>&gt; Non-linear stormwater assets</b>						
<b>a.</b> Stormwater drainage pump stations	<input type="text"/> <small>C7C03801</small>	<input type="text"/> <small>C7C04101</small>	<input type="text"/> <small>C7C03301</small>	<input type="text"/> <small>C7C03401</small>	<input type="text"/> <small>C7C03501</small>	<input type="text"/> <small>C7C03601</small>
<b>b.</b> Stormwater management ponds and stormwater wetlands	<input type="text"/> <small>C7C03802</small>	<input type="text"/> <small>C7C04102</small>	<input type="text"/> <small>C7C03302</small>	<input type="text"/> <small>C7C03402</small>	<input type="text"/> <small>C7C03502</small>	<input type="text"/> <small>C7C03602</small>
<b>c.</b> Stormwater management facilities - all other permitted end-of-pipe facilities	<input type="text"/> <small>C7C03803</small>	<input type="text"/> <small>C7C04103</small>	<input type="text"/> <small>C7C03303</small>	<input type="text"/> <small>C7C03403</small>	<input type="text"/> <small>C7C03503</small>	<input type="text"/> <small>C7C03603</small>
<b>&gt; Linear stormwater assets</b>						
<b>d.</b> Culverts (diameter less than 3 metres) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7C03804</small>	<input type="text"/> <small>C7C04104</small>	<input type="text"/> <small>C7C03304</small>	<input type="text"/> <small>C7C03404</small>	<input type="text"/> <small>C7C03504</small>	<input type="text"/> <small>C7C03604</small>
<b>e.</b> Open ditches <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7C03805</small>	<input type="text"/> <small>C7C04105</small>	<input type="text"/> <small>C7C03305</small>	<input type="text"/> <small>C7C03405</small>	<input type="text"/> <small>C7C03505</small>	<input type="text"/> <small>C7C03605</small>
<b>f.</b> Stormwater pipes (diameter less than 450 millimeters) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7C03806</small>	<input type="text"/> <small>C7C04106</small>	<input type="text"/> <small>C7C03306</small>	<input type="text"/> <small>C7C03406</small>	<input type="text"/> <small>C7C03506</small>	<input type="text"/> <small>C7C03606</small>
<b>g.</b> Stormwater pipes (diameter greater or equal to 450 millimeters and less than 1500 millimeters) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7C03807</small>	<input type="text"/> <small>C7C04107</small>	<input type="text"/> <small>C7C03307</small>	<input type="text"/> <small>C7C03407</small>	<input type="text"/> <small>C7C03507</small>	<input type="text"/> <small>C7C03607</small>
<b>h.</b> Stormwater pipes (diameter greater or equal to 1500 millimeters) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7C03808</small>	<input type="text"/> <small>C7C04108</small>	<input type="text"/> <small>C7C03308</small>	<input type="text"/> <small>C7C03408</small>	<input type="text"/> <small>C7C03508</small>	<input type="text"/> <small>C7C03608</small>
<b>i.</b> Stormwater pipes (of unknown diameter) <b>Indicate</b> length in kilometres.	<input type="text"/> <small>C7C03809</small>	<input type="text"/> <small>C7C04109</small>	<input type="text"/> <small>C7C03309</small>	<input type="text"/> <small>C7C03409</small>	<input type="text"/> <small>C7C03509</small>	<input type="text"/> <small>C7C03609</small>

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**3. In 2022, that was the overall physical condition of your organization’s stormwater assets?**

**Indicate** the percent distribution of your assets by using the condition rating scale. **This includes items to be decommissioned.** Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>&gt; Non-linear stormwater assets</b>						
<b>a.</b> Stormwater drainage pump stations	<input type="text"/> % <small>C7F06101</small>	<input type="text"/> % <small>C7F06201</small>	<input type="text"/> % <small>C7F06301</small>	<input type="text"/> % <small>C7F06401</small>	<input type="text"/> % <small>C7F06501</small>	<input type="text"/> % <small>C7F06601</small>
<b>b.</b> Stormwater management ponds and stormwater wetlands	<input type="text"/> % <small>C7F06102</small>	<input type="text"/> % <small>C7F06202</small>	<input type="text"/> % <small>C7F06302</small>	<input type="text"/> % <small>C7F06402</small>	<input type="text"/> % <small>C7F06502</small>	<input type="text"/> % <small>C7F06602</small>
<b>c.</b> Stormwater management facilities - all other permitted end-of-pipe facilities	<input type="text"/> % <small>C7F06103</small>	<input type="text"/> % <small>C7F06203</small>	<input type="text"/> % <small>C7F06303</small>	<input type="text"/> % <small>C7F06403</small>	<input type="text"/> % <small>C7F06503</small>	<input type="text"/> % <small>C7F06603</small>
<b>&gt; Linear stormwater assets</b>						
<b>d.</b> Culverts (diameter less than 3 metres)	<input type="text"/> % <small>C7F06104</small>	<input type="text"/> % <small>C7F06204</small>	<input type="text"/> % <small>C7F06304</small>	<input type="text"/> % <small>C7F06404</small>	<input type="text"/> % <small>C7F06504</small>	<input type="text"/> % <small>C7F06604</small>
<b>e.</b> Open ditches	<input type="text"/> % <small>C7F06105</small>	<input type="text"/> % <small>C7F06205</small>	<input type="text"/> % <small>C7F06305</small>	<input type="text"/> % <small>C7F06405</small>	<input type="text"/> % <small>C7F06505</small>	<input type="text"/> % <small>C7F06605</small>
<b>f.</b> Stormwater pipes (diameter less than 450 millimeters)	<input type="text"/> % <small>C7F06106</small>	<input type="text"/> % <small>C7F06206</small>	<input type="text"/> % <small>C7F06306</small>	<input type="text"/> % <small>C7F06406</small>	<input type="text"/> % <small>C7F06506</small>	<input type="text"/> % <small>C7F06606</small>
<b>g.</b> Stormwater pipes (diameter greater or equal to 450 millimeters and less than 1500 millimeters)	<input type="text"/> % <small>C7F06107</small>	<input type="text"/> % <small>C7F06207</small>	<input type="text"/> % <small>C7F06307</small>	<input type="text"/> % <small>C7F06407</small>	<input type="text"/> % <small>C7F06507</small>	<input type="text"/> % <small>C7F06607</small>
<b>h.</b> Stormwater pipes (diameter greater or equal to 1500 millimeters)	<input type="text"/> % <small>C7F06108</small>	<input type="text"/> % <small>C7F06208</small>	<input type="text"/> % <small>C7F06308</small>	<input type="text"/> % <small>C7F06408</small>	<input type="text"/> % <small>C7F06508</small>	<input type="text"/> % <small>C7F06608</small>
<b>i.</b> Stormwater pipes (of unknown diameter)	<input type="text"/> % <small>C7F06109</small>	<input type="text"/> % <small>C7F06209</small>	<input type="text"/> % <small>C7F06309</small>	<input type="text"/> % <small>C7F06409</small>	<input type="text"/> % <small>C7F06509</small>	<input type="text"/> % <small>C7F06609</small>

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4. What is the **2022** estimated replacement value, required renewal budget, and actual renewal budget of stormwater assets owned by your organization?

Provide your best estimate when exact figures are not available.  
 Report "0" when no assets completed construction during the period.  
 If a breakdown is not available, please provide the total.  
 Report all amounts in **thousands** of Canadian dollars.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Non-linear stormwater assets</b>			
a. Stormwater drainage pump stations	\$ <input type="text"/> ,000 <small>C7H18101</small>	\$ <input type="text"/> ,000 <small>C7H18201</small>	\$ <input type="text"/> ,000 <small>C7H18301</small>
b. Stormwater management ponds and stormwater wetlands	\$ <input type="text"/> ,000 <small>C7H18102</small>	\$ <input type="text"/> ,000 <small>C7H18202</small>	\$ <input type="text"/> ,000 <small>C7H18302</small>
c. Stormwater management facilities - all other permitted end-of-pipe facilities	\$ <input type="text"/> ,000 <small>C7H18103</small>	\$ <input type="text"/> ,000 <small>C7H18203</small>	\$ <input type="text"/> ,000 <small>C7H18303</small>
<b>Total for all non-linear stormwater assets</b>	\$ <input type="text"/> ,000 <small>C7H18401</small>	\$ <input type="text"/> ,000 <small>C7H18402</small>	\$ <input type="text"/> ,000 <small>C7H18403</small>
<b>&gt; Linear stormwater assets</b>			
d. Culverts (diameter less than 3 metres)	\$ <input type="text"/> ,000 <small>C7H18104</small>	\$ <input type="text"/> ,000 <small>C7H18204</small>	\$ <input type="text"/> ,000 <small>C7H18304</small>
e. Open ditches	\$ <input type="text"/> ,000 <small>C7H18105</small>	\$ <input type="text"/> ,000 <small>C7H18205</small>	\$ <input type="text"/> ,000 <small>C7H18305</small>
f. Stormwater pipes (diameter less than 450 millimeters)	\$ <input type="text"/> ,000 <small>C7H18106</small>	\$ <input type="text"/> ,000 <small>C7H18206</small>	\$ <input type="text"/> ,000 <small>C7H18306</small>
g. Stormwater pipes (diameter greater or equal to 450 millimeters and less than 1500 millimeters)	\$ <input type="text"/> ,000 <small>C7H18107</small>	\$ <input type="text"/> ,000 <small>C7H18207</small>	\$ <input type="text"/> ,000 <small>C7H18307</small>

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	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Linear stormwater assets (continued)</b>			
<b>h.</b> Stormwater pipes (diameter greater or equal to 1500 millimeters)	\$ <input type="text"/> ,000 <small>C7H18108</small>	\$ <input type="text"/> ,000 <small>C7H18208</small>	\$ <input type="text"/> ,000 <small>C7H18308</small>
<b>i.</b> Stormwater pipes (of unknown diameter)	\$ <input type="text"/> ,000 <small>C7H18109</small>	\$ <input type="text"/> ,000 <small>C7H18209</small>	\$ <input type="text"/> ,000 <small>C7H18309</small>
<b>Total for all linear stormwater assets</b>	\$ <input type="text"/> ,000 <small>C7H18404</small>	\$ <input type="text"/> ,000 <small>C7H18405</small>	\$ <input type="text"/> ,000 <small>C7H18406</small>

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5. In 2022, did your organization acquire or bring into service any new stormwater assets for the following categories? For the new assets acquired, please provide the expected useful life.

Indicate the useful life (in years) for new assets acquired or brought into service during the year.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

> **Non-linear stormwater assets**

**a. Stormwater drainage pump stations**

C7H20101

1  **Yes** - new stormwater drainage pump stations assets acquired in **2022**

↳ Expected stormwater drainage pump stations useful life

C7H20201

2  **No** - no new stormwater drainage pump stations assets acquired in **2022**

**b. Stormwater management ponds and stormwater wetlands**

C7H20102

1  **Yes** - new stormwater management ponds and stormwater wetlands assets acquired in **2022**

↳ Expected stormwater management ponds and stormwater wetlands useful life

C7H20202

2  **No** - no new stormwater management ponds and stormwater wetlands assets acquired in **2022**

**c. Stormwater management facilities - all other permitted end-of-pipe facilities**

C7H20103

1  **Yes** - new stormwater management facilities assets acquired in **2022**

↳ Expected stormwater management facilities useful life

C7H20203

2  **No** - no new stormwater management facilities assets acquired in **2022**

> Linear stormwater assets

**d. Culverts (diameter less than 3 metres)**

C7H20104

- 1  **Yes** - new culverts (diameter less than 3 metres) assets acquired in **2022**

↳ Expected culverts (diameter less than 3 metres) useful life

C7H20204

- 2  **No** - no new culverts (diameter less than 3 metres) assets acquired in **2022**

**e. Open ditches**

C7H20105

- 1  **Yes** - new open ditches assets acquired in **2022**

↳ Expected open ditches useful life

C7H20205

- 2  **No** - no new open ditches assets acquired in **2022**

**f. Stormwater pipes (diameter less than 450 millimetres)**

C7H20106

- 1  **Yes** - new stormwater pipes (diameter less than 450 millimetres) assets acquired in **2022**

↳ Expected stormwater pipes (diameter less than 450 millimetres) useful life

C7H20206

- 2  **No** - no new stormwater pipes (diameter less than 450 millimetres) assets acquired in **2022**

**g. Stormwater pipes (diameter greater or equal to 450 millimetres and less than 1500 millimetres)**

C7H20107

- 1  **Yes** - new stormwater pipes (diameter greater or equal to 450 millimetres and less than 1500 millimetres) assets acquired in **2022**

↳ Expected stormwater pipes (diameter greater or equal to 450 millimetres and less than 1500 millimetres) useful life

C7H20207

- 2  **No** - no new stormwater pipes (diameter greater or equal to 450 millimetres and less than 1500 millimetres) assets acquired in **2022**



> Linear stormwater assets (continued)

**h. Stormwater pipes (diameter greater or equal to 1500 millimetres)**

C7H20108

- 1  **Yes** - new stormwater pipes (diameter greater or equal to 1500 millimetres) assets acquired in **2022**



Expected stormwater pipes (diameter greater or equal to 1500 millimetres) useful life

C7H20208

- 2  **No** - no new stormwater pipes (diameter greater or equal to 1500 millimetres) assets acquired in **2022**

**i. Stormwater pipes (of unknown diameter)**

C7H20109

- 1  **Yes** - new stormwater pipes (of unknown diameter) assets acquired in **2022**



Expected stormwater pipes (of unknown diameter) useful life

C7H20209

- 2  **No** - no new stormwater pipes (of unknown diameter) assets acquired in **2022**

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6. In 2022, what were the volumetric flow rates of your organizations linear stormwater assets?

Indicate the percent distribution of your assets.

		Percentage of stormwater assets
a.	Less than 500 litres per second	<input type="text"/> % <small>C7G18101</small>
b.	Between 500 litres per second and 1 499 litres per second	<input type="text"/> % <small>C7G18102</small>
c.	Greater than 1 500 litres per second	<input type="text"/> % <small>C7G18103</small>

7. In 2022, how many major leaks or bursts were repaired?

		Count
a.	Storm sewer mains	<input type="text"/> <small>C7G18104</small>
b.	Storm cross-connections	<input type="text"/> <small>C7G18105</small>

8. Of the major leaks or bursts reported on question 7, what is the average number of days between detection and reparation of the leaks?

		Number of days
a.	Storm sewer mains	<input type="text"/> <small>C7G18106</small>
b.	Storm cross-connections	<input type="text"/> <small>C7G18107</small>

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9. As of **December 31, 2022**, does your organization make use of real-time controls for stormwater management?

This refers to control systems used to manage stormwater volumes in real time during storm events - essentially a system wherein valves on various stormwater structures and parts of a network can be opened and closed to optimize storage and minimize the risk of sewer overflows. They are either automatic or programmed according to models or operated manually during storms.

C7G18108

1  Yes

2  No

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10. Does your organization have a documented asset management plan for stormwater?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12303

1  Yes



> At what frequency is the asset management plan for stormwater updated?

**Indicate** the frequency in years, if applicable.

Number of years

COG11303

2  No



> When does your organization plan to have a documented asset management plan in place for stormwater?

**Indicate** in how many years a plan will be implemented, if applicable.

Number of years

COG13303

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**11.** What type of asset management information system does your organization use for stormwater?

Select only one answer.

Type of system

COG14303

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

**12.** In **2022**, what was the maturity level of your organization's asset management planning for stormwater?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01003

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

**13.** Do climate change adaptation or mitigation factor into your organization's decision-making process for stormwater?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Climate change adaptation and mitigation

COG00303

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

## Definitions

### Question 1

#### Stormwater assets

##### Non-linear stormwater assets

**Include** stormwater drainage pump stations; stormwater management ponds and stormwater wetlands; and stormwater management facilities – all other permitted end-of-pipe facilities owned by your organization or leased by your organization through a capital lease agreement.

##### Linear stormwater assets

**Include** culverts of less than 3 metres in diameter, open ditches, stormwater pipes (diameter less than 450 millimetres), stormwater pipes (diameter greater than or equal to 450 millimetres to less than 1,500 millimetres), and stormwater pipes (diameter greater than or equal to 1,500 millimetres) owned by your organization or leased by your organization through a capital lease agreement.

### Question 2

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory at December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

### Question 3

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident; minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

#### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

#### Very good

Sound physical condition. No short-term failure risk and no work required.

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life:

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.

## Definitions (continued)

### Question 4

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, **including** demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

### Question 5

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

**Include** assets that were newly built, acquired or donated during the reference year.

**Exclude** the purchase or acquisition of used assets (existing assets acquired from another organization), ownership transfers, and asset betterments and renewals.

### Question 9

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

### Question 12

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

#### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

## Definitions (continued)

### **Optimizing (Level 4)**

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

### **Excellent (Level 5)**

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### **Question 13**

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

### **Climate change mitigation**

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

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# Canada's Core Public Infrastructure Survey 2022

## Roads

CONFIDENTIAL once completed.

Si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant : 1-833-977-8287

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.**

### Survey purpose

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

### Confidentiality

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 the response 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.

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The shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

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For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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### Record linkages

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

### Additional information

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*.

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**Please return the questionnaire within 30 days.**

If you are unable to complete within 30 days **OR** if you need help, call us at **1-833-977-8287**.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)

## Reporting Instructions

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- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter "0" if there is no value to report.

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## Roads

1. In 2022, what was the total length in kilometres of your organization's road network?

**Report** the length of road assets in terms of two-lane equivalent kilometres, where one kilometre of a four-lane highway is counted as two kilometres. Two-lane equivalent kilometres can be calculated by dividing the total lane kilometres by two, where a single lane one-way road would count for 0.5 kilometres for each lane kilometre in length.

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

**Indicate** the length in kilometers.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

		Total length in kilometres
<b>&gt; Road assets</b>		
a. Highways		<input type="text"/> <small>CSB02101</small>
b. Rural highways		<input type="text"/> <small>CSB02107</small>
c. Arterial roads		<input type="text"/> <small>CSB02102</small>
d. Collector roads		<input type="text"/> <small>CSB02103</small>
e. Local roads		<input type="text"/> <small>CSB02104</small>
f. Lanes and alleys		<input type="text"/> <small>CSB02105</small>

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**2.** Provide the distribution of your organization’s road network in kilometres based on the year of construction completion below.

Provide your best estimate when exact figures are not available.

Report “0” when the organization does not own or lease the asset.

**Indicate** the length of the road assets in two-lane equivalent kilometres.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>&gt; Road assets</b>						
<b>a.</b> Highways	<input type="text"/> <small>C5C03001</small>	<input type="text"/> <small>C5C03901</small>	<input type="text"/> <small>C5C03301</small>	<input type="text"/> <small>C5C03401</small>	<input type="text"/> <small>C5C03501</small>	<input type="text"/> <small>C5C03601</small>
<b>b.</b> Rural highways	<input type="text"/> <small>C5C03007</small>	<input type="text"/> <small>C5C03907</small>	<input type="text"/> <small>C5C03307</small>	<input type="text"/> <small>C5C03407</small>	<input type="text"/> <small>C5C03507</small>	<input type="text"/> <small>C5C03607</small>
<b>c.</b> Arterial roads	<input type="text"/> <small>C5C03002</small>	<input type="text"/> <small>C5C03902</small>	<input type="text"/> <small>C5C03302</small>	<input type="text"/> <small>C5C03402</small>	<input type="text"/> <small>C5C03502</small>	<input type="text"/> <small>C5C03602</small>
<b>d.</b> Collector roads	<input type="text"/> <small>C5C03003</small>	<input type="text"/> <small>C5C03903</small>	<input type="text"/> <small>C5C03303</small>	<input type="text"/> <small>C5C03403</small>	<input type="text"/> <small>C5C03503</small>	<input type="text"/> <small>C5C03603</small>
<b>e.</b> Local roads	<input type="text"/> <small>C5C03004</small>	<input type="text"/> <small>C5C03904</small>	<input type="text"/> <small>C5C03304</small>	<input type="text"/> <small>C5C03404</small>	<input type="text"/> <small>C5C03504</small>	<input type="text"/> <small>C5C03604</small>
<b>f.</b> Lanes and alleys	<input type="text"/> <small>C5C03005</small>	<input type="text"/> <small>C5C03905</small>	<input type="text"/> <small>C5C03305</small>	<input type="text"/> <small>C5C03405</small>	<input type="text"/> <small>C5C03505</small>	<input type="text"/> <small>C5C03605</small>

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**3. In 2022, what was the overall physical condition of your organization's road assets?**

**Indicate** the percent distribution of your assets by using the condition rating scale. **This includes items to be decommissioned.** Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>&gt; Road assets</b>						
<b>a. Highways</b>	<input type="text"/> % <small>C5F06101</small>	<input type="text"/> % <small>C5F06201</small>	<input type="text"/> % <small>C5F06301</small>	<input type="text"/> % <small>C5F06401</small>	<input type="text"/> % <small>C5F06501</small>	<input type="text"/> % <small>C5F06601</small>
<b>b. Rural highways</b>	<input type="text"/> % <small>C5F06107</small>	<input type="text"/> % <small>C5F06207</small>	<input type="text"/> % <small>C5F06307</small>	<input type="text"/> % <small>C5F06407</small>	<input type="text"/> % <small>C5F06507</small>	<input type="text"/> % <small>C5F06607</small>
<b>c. Arterial roads</b>	<input type="text"/> % <small>C5F06102</small>	<input type="text"/> % <small>C5F06202</small>	<input type="text"/> % <small>C5F06302</small>	<input type="text"/> % <small>C5F06402</small>	<input type="text"/> % <small>C5F06502</small>	<input type="text"/> % <small>C5F06602</small>
<b>d. Collector roads</b>	<input type="text"/> % <small>C5F06103</small>	<input type="text"/> % <small>C5F06203</small>	<input type="text"/> % <small>C5F06303</small>	<input type="text"/> % <small>C5F06403</small>	<input type="text"/> % <small>C5F06503</small>	<input type="text"/> % <small>C5F06603</small>
<b>e. Local roads</b>	<input type="text"/> % <small>C5F06104</small>	<input type="text"/> % <small>C5F06204</small>	<input type="text"/> % <small>C5F06304</small>	<input type="text"/> % <small>C5F06404</small>	<input type="text"/> % <small>C5F06504</small>	<input type="text"/> % <small>C5F06604</small>
<b>f. Lanes and alleys</b>	<input type="text"/> % <small>C5F06105</small>	<input type="text"/> % <small>C5F06205</small>	<input type="text"/> % <small>C5F06305</small>	<input type="text"/> % <small>C5F06405</small>	<input type="text"/> % <small>C5F06505</small>	<input type="text"/> % <small>C5F06605</small>

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4. What is the **2022** estimated replacement value, required renewal budget, and actual renewal budget of roads assets owned by your organization?

Provide your best estimate when exact figures are not available.  
 Report "0" when the organization does not own or lease the asset.  
 If a breakdown is not available, please provide the total.  
 Please report all amounts in **thousands** of Canadian dollars.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Road assets</b>			
a. Highways	\$ <input type="text"/> ,000 <small>CSH13101</small>	\$ <input type="text"/> ,000 <small>CSH13201</small>	\$ <input type="text"/> ,000 <small>CSH13301</small>
b. Rural highways	\$ <input type="text"/> ,000 <small>CSH13107</small>	\$ <input type="text"/> ,000 <small>CSH13207</small>	\$ <input type="text"/> ,000 <small>CSH13307</small>
c. Arterial roads	\$ <input type="text"/> ,000 <small>CSH13102</small>	\$ <input type="text"/> ,000 <small>CSH13202</small>	\$ <input type="text"/> ,000 <small>CSH13302</small>
d. Collector roads	\$ <input type="text"/> ,000 <small>CSH13103</small>	\$ <input type="text"/> ,000 <small>CSH13203</small>	\$ <input type="text"/> ,000 <small>CSH13303</small>
e. Local roads	\$ <input type="text"/> ,000 <small>CSH13104</small>	\$ <input type="text"/> ,000 <small>CSH13204</small>	\$ <input type="text"/> ,000 <small>CSH13304</small>
f. Lanes and alleys	\$ <input type="text"/> ,000 <small>CSH13105</small>	\$ <input type="text"/> ,000 <small>CSH13205</small>	\$ <input type="text"/> ,000 <small>CSH13305</small>
<b>Total for all roads</b>	\$ <input type="text"/> ,000 <small>CSH13108</small>	\$ <input type="text"/> ,000 <small>CSH13208</small>	\$ <input type="text"/> ,000 <small>CSH13308</small>

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5. In 2022, did your organization acquire or bring into service any new road assets for the following categories? For the new assets acquired, please provide the expected useful life.

Indicate the useful life (in years) for new assets acquired or brought into service during the year.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

**a. Highways**

CSH15201

1  **Yes** - new highways assets acquired in **2022**

↳ Expected highways useful life

CSH15101

2  **No** - no new highways assets acquired in **2022**

**b. Rural highways**

CSH15207

1  **Yes** - new rural highways assets acquired in **2022**

↳ Expected rural highways useful life

CSH15107

2  **No** - no new rural highways assets acquired in **2022**

**c. Arterial roads**

CSH15202

1  **Yes** - new arterial roads assets acquired in **2022**

↳ Expected arterial roads useful life

CSH15102

2  **No** - no new arterial roads assets acquired in **2022**

**d. Collector roads**

CSH15203

1  **Yes** - new collector roads assets acquired in **2022**

↳ Expected collector roads useful life

CSH15103

2  **No** - no new collector roads assets acquired in **2022**

**e. Local roads**

CSH15204

1  **Yes** - new local roads assets acquired in **2022**



Expected local roads useful life

CSH15104

2  **No** - no new local roads assets acquired in **2022**

**f. Lanes and alleys**

CSH15205

1  **Yes** - new lanes and alleys assets acquired in **2022**



Expected lanes and alleys useful life

CSH15105

2  **No** - no new lanes and alleys assets acquired in **2022**

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6. Does your organization have a documented asset management plan for roads?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12306

<sup>1</sup>  Yes



**> At what frequency is the asset management plan for roads updated?**

**Indicate** the frequency in years, if applicable.

Number of years

COG11306

<sup>2</sup>  No



**> When does your organization plan to have a documented asset management plan in place for roads?**

**Indicate** in how many years a plan will be implemented, if applicable.

Number of years

COG13306

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**7.** What type of asset management information system does your organization use for roads?

Select only one answer.

Type of system

COG14306

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

**8.** In **2022**, what was the maturity level of your organization's asset management planning for roads?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01006

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

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**9.** Do climate change adaptation or mitigation factor into your organization's decision making process for roads?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Climate change adaptation and mitigation

COG00306

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

**10.** Does accessibility and universal design factor into your organization's decision-making process for roads?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Accessibility and universal design

COG00206

- 1  Accessibility
- 2  Universal design
- 3  Both accessibility and universal design
- 4  Not a factor
- 5  Do not know

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## Definitions

### Question 1

#### Road assets

Report the road network (highways, rural highways, arterial roads, collector roads, local roads, and lanes and alleys) in two-lane equivalent kilometres where one kilometre of a four-lane highway is counted as two kilometres. Two-lane equivalent kilometres can be calculated by dividing the total lane kilometres by two, where a single lane one-way road would count for 0.5 kilometres for each lane kilometre in length. If only centre-lane kilometres, or the length of roads regardless of the number of lanes are available, please provide your best estimate for two-lane equivalents.

**Include** all paved and unpaved urban and rural roads (highways, rural highways, arterial roads, collector roads, local roads, and lanes and alleys) owned by your organization or leased by your organization through a capital lease agreement.

**Exclude** transit exclusive right of ways.

**Highways** are roads that move high volumes of traffic and have controlled entrances and exits. They have a dividing strip between traffic travelling in opposite directions, and typically they have two or more lanes in each direction. Highways do not provide access to property, and generally do not accommodate cyclists or pedestrians.

**Rural highways** move varied traffic volumes depending on location, are medium to high speed, and usually have one, but sometimes two, lanes in each direction. As opposed to Highways above, rural highways usually have no dividing strip and may allow for direct access from adjacent developments. Traffic movement is the primary consideration and these roads are designed for higher speeds than Arterial roads as defined below.

**Arterial roads** move moderate to high traffic volumes over moderate distances between principal areas of traffic generation. They gather traffic from collector roads and local roads, and move it to the highway system. Arterial roads are generally designed for medium speed, have capacity for two to six lanes, and may be divided — with limited or controlled direct access from adjacent developments — and with on-street parking discouraged.

**Collector roads** move low to moderate traffic volumes within specific areas of a municipality, and collect local traffic for distribution to the arterial or highway system. Collector roads are generally designed for medium speed, have capacity for two to four lanes, are usually undivided — with direct access from adjacent development permitted, but usually controlled — and have controlled on-street parking usually permitted.

**Local roads** provide for low volumes of traffic and access to private properties. Local roads are designed for low speeds and have capacity for two undivided lanes of traffic. Through traffic is discouraged, and parking is usually permitted, though often controlled.

### Question 2

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory at December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

### Question 3

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident; minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

#### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

## Definitions (continued)

### Very good

Sound physical condition. No short-term failure risk and no work required.

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life:

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.

### Question 4

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, **including** demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

### Question 5

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

**Include** assets that were newly built, acquired or donated during the reference year.

**Exclude** the purchase or acquisition of used assets (existing assets acquired from another organization), ownership transfers, and asset betterments and renewals.

### Question 6

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

### Question 8

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

## Definitions (continued)

### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

### Optimizing (Level 4)

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

### Excellent (Level 5)

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### Question 9

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

### Climate change mitigation

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

### Question 10

#### Accessibility

This means taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

#### Universal design

This means supporting the usability of products and the built environment for the greatest number of people, **including** a wide spectrum of age groups and abilities. Universal design applies to the design of programs and services, technologies, transportation, instruction, and other products and environments.

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# Canada's Core Public Infrastructure Survey 2022

## Bridges and Tunnels

CONFIDENTIAL once completed.

Si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant : 1-833-977-8287

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.**

### Survey purpose

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

### Confidentiality

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

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**Please return the questionnaire within 30 days.**

If you are unable to complete within 30 days **OR** if you need help, call us at **1-833-977-8287**.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)

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- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter "0" if there is no value to report.

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## Bridges and Tunnels

**1.** What was your organization's final inventory count of bridge and tunnel assets as of **December 31, 2022**?

**Report** the length of bridge and tunnel assets in terms of two-lane equivalent kilometres, where one kilometre of a four-lane highway is counted as two kilometres. Two-lane equivalent kilometres can be calculated by dividing the total lane kilometres by two, where a single lane one-way road would count for 0.5 kilometres for each lane kilometre in length.

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

		Count	Length (two-lane equivalent kilometres)
<b>&gt; Bridges</b>			
<b>a.</b>	Highways	<input type="text"/> <small>C1B01101</small>	<input type="text"/> <small>C1B01201</small>
<b>b.</b>	Rural highways	<input type="text"/> <small>C1B01108</small>	<input type="text"/> <small>C1B01208</small>
<b>c.</b>	Arterials	<input type="text"/> <small>C1B01102</small>	<input type="text"/> <small>C1B01202</small>
<b>d.</b>	Collector	<input type="text"/> <small>C1B01103</small>	<input type="text"/> <small>C1B01203</small>
<b>e.</b>	Local	<input type="text"/> <small>C1B01104</small>	<input type="text"/> <small>C1B01204</small>
<b>&gt; Other</b>			
<b>f.</b>	Culverts (diameter greater than or equal to 3 metres)	<input type="text"/> <small>C1B01106</small>	<input type="text"/> <small>C1B01206</small>
<b>g.</b>	Tunnels	<input type="text"/> <small>C1B01107</small>	<input type="text"/> <small>C1B01207</small>

**2.** Provide the distribution of your organization’s bridge and tunnel asset inventory count based on the year of construction completion below.

Provide your best estimate when exact figures are not available.  
Report “0” when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>&gt; Bridges</b>						
<b>a.</b> Highways	<input type="text"/> <small>C1C02801</small>	<input type="text"/> <small>C1C22101</small>	<input type="text"/> <small>C1C02301</small>	<input type="text"/> <small>C1C02401</small>	<input type="text"/> <small>C1C02501</small>	<input type="text"/> <small>C1C02601</small>
<b>b.</b> Rural highways	<input type="text"/> <small>C1C02808</small>	<input type="text"/> <small>C1C22108</small>	<input type="text"/> <small>C1C02308</small>	<input type="text"/> <small>C1C02408</small>	<input type="text"/> <small>C1C02508</small>	<input type="text"/> <small>C1C02608</small>
<b>c.</b> Arterials	<input type="text"/> <small>C1C02802</small>	<input type="text"/> <small>C1C22102</small>	<input type="text"/> <small>C1C02302</small>	<input type="text"/> <small>C1C02402</small>	<input type="text"/> <small>C1C02502</small>	<input type="text"/> <small>C1C02602</small>
<b>d.</b> Collector	<input type="text"/> <small>C1C02803</small>	<input type="text"/> <small>C1C22103</small>	<input type="text"/> <small>C1C02303</small>	<input type="text"/> <small>C1C02403</small>	<input type="text"/> <small>C1C02503</small>	<input type="text"/> <small>C1C02603</small>
<b>e.</b> Local	<input type="text"/> <small>C1C02804</small>	<input type="text"/> <small>C1C22104</small>	<input type="text"/> <small>C1C02304</small>	<input type="text"/> <small>C1C02404</small>	<input type="text"/> <small>C1C02504</small>	<input type="text"/> <small>C1C02604</small>
<b>&gt; Other</b>						
<b>f.</b> Culverts (diameter greater than or equal to 3 metres)	<input type="text"/> <small>C1C02806</small>	<input type="text"/> <small>C1C22106</small>	<input type="text"/> <small>C1C02306</small>	<input type="text"/> <small>C1C02406</small>	<input type="text"/> <small>C1C02506</small>	<input type="text"/> <small>C1C02606</small>
<b>g.</b> Tunnels	<input type="text"/> <small>C1C02807</small>	<input type="text"/> <small>C1C22107</small>	<input type="text"/> <small>C1C02307</small>	<input type="text"/> <small>C1C02407</small>	<input type="text"/> <small>C1C02507</small>	<input type="text"/> <small>C1C02607</small>

DO NOT USE TO REPORT

**3.** In **2022**, what was the overall physical condition of your organization’s bridge and tunnel assets?

**Indicate** the percent distribution of your assets by using the condition rating scale. **This includes items to be decommissioned.** Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>&gt; Bridges</b>						
<b>a.</b> Highways	<input type="text"/> % <small>C1F05101</small>	<input type="text"/> % <small>C1F05201</small>	<input type="text"/> % <small>C1F05301</small>	<input type="text"/> % <small>C1F05401</small>	<input type="text"/> % <small>C1F05501</small>	<input type="text"/> % <small>C1F05601</small>
<b>b.</b> Rural highways	<input type="text"/> % <small>C1F05108</small>	<input type="text"/> % <small>C1F05208</small>	<input type="text"/> % <small>C1F05308</small>	<input type="text"/> % <small>C1F05408</small>	<input type="text"/> % <small>C1F05508</small>	<input type="text"/> % <small>C1F05608</small>
<b>c.</b> Arterials	<input type="text"/> % <small>C1F05102</small>	<input type="text"/> % <small>C1F05202</small>	<input type="text"/> % <small>C1F05302</small>	<input type="text"/> % <small>C1F05402</small>	<input type="text"/> % <small>C1F05502</small>	<input type="text"/> % <small>C1F05602</small>
<b>d.</b> Collector	<input type="text"/> % <small>C1F05103</small>	<input type="text"/> % <small>C1F05203</small>	<input type="text"/> % <small>C1F05303</small>	<input type="text"/> % <small>C1F05403</small>	<input type="text"/> % <small>C1F05503</small>	<input type="text"/> % <small>C1F05603</small>
<b>e.</b> Local	<input type="text"/> % <small>C1F05104</small>	<input type="text"/> % <small>C1F05204</small>	<input type="text"/> % <small>C1F05304</small>	<input type="text"/> % <small>C1F05404</small>	<input type="text"/> % <small>C1F05504</small>	<input type="text"/> % <small>C1F05604</small>
<b>&gt; Other</b>						
<b>f.</b> Culverts (diameter greater than or equal to 3 metres)	<input type="text"/> % <small>C1F05106</small>	<input type="text"/> % <small>C1F05206</small>	<input type="text"/> % <small>C1F05306</small>	<input type="text"/> % <small>C1F05406</small>	<input type="text"/> % <small>C1F05506</small>	<input type="text"/> % <small>C1F05606</small>
<b>g.</b> Tunnels	<input type="text"/> % <small>C1F05107</small>	<input type="text"/> % <small>C1F05207</small>	<input type="text"/> % <small>C1F05307</small>	<input type="text"/> % <small>C1F05407</small>	<input type="text"/> % <small>C1F05507</small>	<input type="text"/> % <small>C1F05607</small>

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4. What is the **2022** estimated replacement value, required renewal budget, and actual renewal budget of bridge and tunnel assets owned by your organization?

Provide your best estimate when exact figures are not available.  
 Report "0" when the organization does not own or lease the asset.  
 If a breakdown is not available, please provide the total.  
 Please report all amounts in **thousands of Canadian dollars**.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Bridges</b>			
a. Highways	\$ <input type="text"/> ,000 <small>CIH16101</small>	\$ <input type="text"/> ,000 <small>CIH16201</small>	\$ <input type="text"/> ,000 <small>CIH16301</small>
b. Rural highways	\$ <input type="text"/> ,000 <small>CIH16108</small>	\$ <input type="text"/> ,000 <small>CIH16208</small>	\$ <input type="text"/> ,000 <small>CIH16308</small>
c. Arterials	\$ <input type="text"/> ,000 <small>CIH16102</small>	\$ <input type="text"/> ,000 <small>CIH16202</small>	\$ <input type="text"/> ,000 <small>CIH16302</small>
d. Collector	\$ <input type="text"/> ,000 <small>CIH16103</small>	\$ <input type="text"/> ,000 <small>CIH16203</small>	\$ <input type="text"/> ,000 <small>CIH16303</small>
e. Local	\$ <input type="text"/> ,000 <small>CIH16104</small>	\$ <input type="text"/> ,000 <small>CIH16204</small>	\$ <input type="text"/> ,000 <small>CIH16304</small>
<b>&gt; Other</b>			
f. Culverts (diameter greater than or equal to 3 metres)	\$ <input type="text"/> ,000 <small>CIH16106</small>	\$ <input type="text"/> ,000 <small>CIH16206</small>	\$ <input type="text"/> ,000 <small>CIH16306</small>
g. Tunnels	\$ <input type="text"/> ,000 <small>CIH16107</small>	\$ <input type="text"/> ,000 <small>CIH16207</small>	\$ <input type="text"/> ,000 <small>CIH16307</small>
<b>Total for all bridges, culverts and tunnels</b>	\$ <input type="text"/> ,000 <small>CIH16109</small>	\$ <input type="text"/> ,000 <small>CIH16209</small>	\$ <input type="text"/> ,000 <small>CIH16309</small>

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5. In 2022, did your organization acquire or bring into service any new bridge and tunnel assets for the following categories? For the new assets acquired, please provide the expected useful life.

Indicate the useful life (in years) for new assets acquired or brought into service during the year.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

> Bridges

> a. Highways

CIH18201

1  Yes - new highways assets acquired in 2022



Expected highways useful life

CIH18101

2  No - no new highways assets acquired in 2022

> b. Rural highways

CIH18208

1  Yes - new rural highways assets acquired in 2022



Expected rural highways useful life

CIH18108

2  No - no new rural highways assets acquired in 2022

> c. Arterials

CIH18202

1  Yes - new arterials assets acquired in 2022



Expected arterials useful life

CIH18102

2  No - no new arterials assets acquired in 2022

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#### d. Collector

CIH18203

- 1  **Yes** - new collector assets acquired in **2022**



Expected collector useful life

CIH18103

- 2  **No** - no new collector assets acquired in **2022**

#### e. Local

CIH18204

- 1  **Yes** - new local assets acquired in **2022**



Expected local useful life

CIH18104

- 2  **No** - no new local assets acquired in **2022**

#### > Other

#### f. Culverts (diameter greater than or equal to 3 metres)

CIH18206

- 1  **Yes** - new culverts (diameter greater than or equal to 3 metres) assets acquired in **2022**



Expected culverts (diameter greater than or equal to 3 metres) useful life

CIH18106

- 2  **No** - no new culverts (diameter greater than or equal to 3 metres) assets acquired in **2022**

#### g. Tunnels

CIH18207

- 1  **Yes** - new tunnels assets acquired in **2022**



Expected tunnels useful life

CIH18107

- 2  **No** - no new tunnels assets acquired in **2022**

6. Does your organization have a documented asset management plan for bridge and tunnel assets?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12307

1  Yes



> At what frequency is the asset management plan for bridges and tunnels updated?

Indicate the frequency in years, if applicable.

Number of years

COG11307

2  No



> When does your organization plan to have a documented asset management plan in place for bridges and tunnels?

Indicate in how many years a plan will be implemented, if applicable.

Number of years

COG13307

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7. What type of asset management information system does your organization use for bridges and tunnels?

Select only one answer.

Type of system

COG14307

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

8. In 2022, what was the maturity level of your organization's asset management planning for bridges and tunnels?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01007

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

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9. Do climate change adaptation or mitigation factor into your organization's decision-making process for bridges and tunnels?  
Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Climate change adaptation and mitigation

COG00207

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

10. Does accessibility and universal design factor into your organization's decision-making process for bridges and tunnels?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Accessibility and universal design

COG00307

- 1  Accessibility
- 2  Universal design
- 3  Both accessibility and universal design
- 4  Not a factor
- 5  Do not know

## Definitions

### Question 1

#### Bridges

**Include** highway bridges, rural highway bridges, arterial bridges, collector bridges, and local bridges owned by your organization.  
**Include** grade separation.

**Exclude** bridges in parks and transit exclusive bridges.

**Highways** are roads that move high volumes of traffic and have controlled entrances and exits. They have a dividing strip between traffic travelling in opposite directions, and typically they have two or more lanes in each direction. Highways do not provide access to property, and generally do not accommodate cyclists or pedestrians.

**Rural highways** move varied traffic volumes depending on location, are medium to high speed, and usually have one, but sometimes two, lanes in each direction. As opposed to Highways above, rural highways usually have no dividing strip and may allow for direct access from adjacent developments. Traffic movement is the primary consideration and these roads are designed for higher speeds than Arterial roads as defined below.

**Arterial roads** move moderate to high traffic volumes over moderate distances between principal areas of traffic generation. They gather traffic from collector roads and local roads, and move it to the highway system. Arterial roads are generally designed for medium speed, have capacity for two to six lanes, and may be divided — with limited or controlled direct access from adjacent developments — and with on-street parking discouraged.

**Collector roads** move low to moderate traffic volumes within specific areas of a municipality, and collect local traffic for distribution to the arterial or highway system. Collector roads are generally designed for medium speed, have capacity for two to four lanes, are usually undivided — with direct access from adjacent development permitted, but usually controlled — and have controlled on-street parking usually permitted.

**Local roads** provide for low volumes of traffic and access to private properties. Local roads are designed for low speeds and have capacity for two undivided lanes of traffic. Through traffic is discouraged, and parking is usually permitted, though often controlled.

#### Culverts

**Include** crossings with diameter greater than or equal to three metres owned by your organization.

#### Tunnels

**Include** tunnels owned by your organization.

**Exclude** tunnels in parks and transit exclusive tunnels.

### Question 2

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory at December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

### Question 3

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident; minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

## Definitions (continued)

### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

### Very good

Sound physical condition. No short-term failure risk and no work required.

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life:

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.

### Question 4

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, including demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

### Question 5

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

**Include** assets that were newly built, acquired or donated during the reference year.

**Exclude** the purchase or acquisition of used assets (existing assets acquired from another organization), ownership transfers, and asset betterments and renewals.

### Question 6

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

## Definitions (continued)

### Question 8

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

#### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

#### Optimizing (Level 4)

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

#### Excellent (Level 5)

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### Question 9

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

#### Climate change mitigation

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

### Question 10

#### Accessibility

This means taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

#### Universal design

This means supporting the usability of products and the built environment for the greatest number of people, **including** a wide spectrum of age groups and abilities. Universal design applies to the design of programs and services, technologies, transportation, instruction, and other products and environments.

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.

**Survey purpose**

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

**Confidentiality**

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 the response 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, which you will return to Statistics Canada with your completed questionnaire. In this letter, please specify the organizations with which you do not want Statistics Canada to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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.

**Approved disclosure**

**Section 17** of the federal *Statistics Act* allows for the disclosure of certain information relating to an individual, business or organization. Statistics Canada will only disclose information where there is a demonstrated statistical need and for the public good, and when it will not harm individuals, organizations or businesses if data were disclosed. For Canada's Core Public Infrastructure Survey, the Chief Statistician has authorized the release of data relating to individual government entities and public utilities. These include data on assets at the aggregate and individual level. Additionally, the names of provincial, regional and municipal government organizations will be released, as well as the variables used in sampling and estimation.

**Record linkages**

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

**Additional information**

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*.

**Who should complete this questionnaire?**

The response to the Canada's Core Public Infrastructure Survey must be coordinated by the organization's asset manager, who will ensure that each asset-specific questionnaire is completed by the manager of the asset in question.

Please return the questionnaire within 30 days.

If you are unable to complete within 30 days OR if you need help, call us at 1-833-977-8287.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)



## Reporting Instructions

- Report dollar amounts in **thousands of Canadian dollars**.
- Declare distances or lengths in kilometers.
- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter “0” if there is no value to report.

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## Solid Waste

**1. What was your organization's final inventory count of solid waste assets as of December 31, 2022?**

Provide your best estimate when exact figures are not available.  
Report "0" when no assets completed construction during the period.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Count	Capacity (tonnes)
<b>&gt; Solid waste assets</b>		
a. Transfer station assets	<input type="text"/> <small>C6B01101</small>	<input type="text"/> <small>C6B01201</small>
<b>&gt; Waste diversion assets</b>		
b. Composting facilities	<input type="text"/> <small>C6B01102</small>	<input type="text"/> <small>C6B01202</small>
c. Materials recovery facilities	<input type="text"/> <small>C6B01103</small>	<input type="text"/> <small>C6B01203</small>
d. Anaerobic digestion facilities	<input type="text"/> <small>C6B01104</small>	<input type="text"/> <small>C6B01204</small>
<b>&gt; Waste disposal assets</b>		
e. Active engineered landfills	<input type="text"/> <small>C6B01105</small>	<input type="text"/> <small>C6B01205</small>
f. Active dump sites	<input type="text"/> <small>C6B01106</small>	<input type="text"/> <small>C6B01206</small>
g. Closed sites i.e., inactive engineered landfills and dumps	<input type="text"/> <small>C6B01107</small>	
h. Incinerators	<input type="text"/> <small>C6B01108</small>	<input type="text"/> <small>C6B01208</small>
i. Energy from waste facilities	<input type="text"/> <small>C6B01109</small>	<input type="text"/> <small>C6B01209</small>

**2. Provide the distribution of your organization's solid waste asset inventory count based on the year of construction completion below.**

Provide your best estimate when exact figures are not available.  
Report "0" when no assets completed construction during the period.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>&gt; Solid waste assets</b>						
<b>a. Transfer station assets</b>	<input type="text"/> <small>C6C02801</small>	<input type="text"/> <small>C6C03101</small>	<input type="text"/> <small>C6C02301</small>	<input type="text"/> <small>C6C02401</small>	<input type="text"/> <small>C6C02501</small>	<input type="text"/> <small>C6C02601</small>
<b>&gt; Waste diversion assets</b>						
<b>b. Composting facilities</b>	<input type="text"/> <small>C6C02802</small>	<input type="text"/> <small>C6C03102</small>	<input type="text"/> <small>C6C02302</small>	<input type="text"/> <small>C6C02402</small>	<input type="text"/> <small>C6C02502</small>	<input type="text"/> <small>C6C02602</small>
<b>c. Materials recovery facilities</b>	<input type="text"/> <small>C6C02803</small>	<input type="text"/> <small>C6C03103</small>	<input type="text"/> <small>C6C02303</small>	<input type="text"/> <small>C6C02403</small>	<input type="text"/> <small>C6C02503</small>	<input type="text"/> <small>C6C02603</small>
<b>d. Anaerobic digestion facilities</b>	<input type="text"/> <small>C6C02804</small>	<input type="text"/> <small>C6C03104</small>	<input type="text"/> <small>C6C02304</small>	<input type="text"/> <small>C6C02404</small>	<input type="text"/> <small>C6C02504</small>	<input type="text"/> <small>C6C02604</small>
<b>&gt; Waste disposal assets</b>						
<b>e. Active engineered landfills</b>	<input type="text"/> <small>C6C02805</small>	<input type="text"/> <small>C6C03105</small>	<input type="text"/> <small>C6C02305</small>	<input type="text"/> <small>C6C02405</small>	<input type="text"/> <small>C6C02505</small>	<input type="text"/> <small>C6C02605</small>
<b>f. Active dump sites</b>	<input type="text"/> <small>C6C02806</small>	<input type="text"/> <small>C6C03106</small>	<input type="text"/> <small>C6C02306</small>	<input type="text"/> <small>C6C02406</small>	<input type="text"/> <small>C6C02506</small>	<input type="text"/> <small>C6C02606</small>
<b>g. Closed sites i.e., inactive engineered landfills and dumps</b>	<input type="text"/> <small>C6C02807</small>	<input type="text"/> <small>C6C03107</small>	<input type="text"/> <small>C6C02307</small>	<input type="text"/> <small>C6C02407</small>	<input type="text"/> <small>C6C02507</small>	<input type="text"/> <small>C6C02607</small>
<b>h. Incinerators</b>	<input type="text"/> <small>C6C02808</small>	<input type="text"/> <small>C6C03108</small>	<input type="text"/> <small>C6C02308</small>	<input type="text"/> <small>C6C02408</small>	<input type="text"/> <small>C6C02508</small>	<input type="text"/> <small>C6C02608</small>
<b>i. Energy from waste facilities</b>	<input type="text"/> <small>C6C02809</small>	<input type="text"/> <small>C6C03109</small>	<input type="text"/> <small>C6C02309</small>	<input type="text"/> <small>C6C02409</small>	<input type="text"/> <small>C6C02509</small>	<input type="text"/> <small>C6C02609</small>

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**3. In 2022, what was the overall physical condition of your organization's solid waste assets?**

**Indicate** the percent distribution of your assets by using the condition rating scale. **This includes items to be decommissioned.** Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>&gt; Solid waste assets</b>						
<b>a. Transfer station assets</b>	<input type="text"/> % <small>C6F05101</small>	<input type="text"/> % <small>C6F05201</small>	<input type="text"/> % <small>C6F05301</small>	<input type="text"/> % <small>C6F05401</small>	<input type="text"/> % <small>C6F05501</small>	<input type="text"/> % <small>C6F05601</small>
<b>&gt; Waste diversion assets</b>						
<b>b. Composting facilities</b>	<input type="text"/> % <small>C6F05102</small>	<input type="text"/> % <small>C6F05202</small>	<input type="text"/> % <small>C6F05302</small>	<input type="text"/> % <small>C6F05402</small>	<input type="text"/> % <small>C6F05502</small>	<input type="text"/> % <small>C6F05602</small>
<b>c. Materials recovery facilities</b>	<input type="text"/> % <small>C6F05103</small>	<input type="text"/> % <small>C6F05203</small>	<input type="text"/> % <small>C6F05303</small>	<input type="text"/> % <small>C6F05403</small>	<input type="text"/> % <small>C6F05503</small>	<input type="text"/> % <small>C6F05603</small>
<b>d. Anaerobic digestion facilities</b>	<input type="text"/> % <small>C6F05104</small>	<input type="text"/> % <small>C6F05204</small>	<input type="text"/> % <small>C6F05304</small>	<input type="text"/> % <small>C6F05404</small>	<input type="text"/> % <small>C6F05504</small>	<input type="text"/> % <small>C6F05604</small>
<b>&gt; Waste disposal assets</b>						
<b>e. Active engineered landfills</b>	<input type="text"/> % <small>C6F05105</small>	<input type="text"/> % <small>C6F05205</small>	<input type="text"/> % <small>C6F05305</small>	<input type="text"/> % <small>C6F05405</small>	<input type="text"/> % <small>C6F05505</small>	<input type="text"/> % <small>C6F05605</small>
<b>f. Active dump sites</b>	<input type="text"/> % <small>C6F05106</small>	<input type="text"/> % <small>C6F05206</small>	<input type="text"/> % <small>C6F05306</small>	<input type="text"/> % <small>C6F05406</small>	<input type="text"/> % <small>C6F05506</small>	<input type="text"/> % <small>C6F05606</small>
<b>g. Closed sites i.e., inactive engineered landfills and dumps</b>	<input type="text"/> % <small>C6F05107</small>	<input type="text"/> % <small>C6F05207</small>	<input type="text"/> % <small>C6F05307</small>	<input type="text"/> % <small>C6F05407</small>	<input type="text"/> % <small>C6F05507</small>	<input type="text"/> % <small>C6F05607</small>
<b>h. Incinerators</b>	<input type="text"/> % <small>C6F05108</small>	<input type="text"/> % <small>C6F05208</small>	<input type="text"/> % <small>C6F05308</small>	<input type="text"/> % <small>C6F05408</small>	<input type="text"/> % <small>C6F05508</small>	<input type="text"/> % <small>C6F05608</small>
<b>i. Energy from waste facilities</b>	<input type="text"/> % <small>C6F05109</small>	<input type="text"/> % <small>C6F05209</small>	<input type="text"/> % <small>C6F05309</small>	<input type="text"/> % <small>C6F05409</small>	<input type="text"/> % <small>C6F05509</small>	<input type="text"/> % <small>C6F05609</small>

4. What is the **2022** estimated replacement value, required renewal budget, and actual renewal budget of solid waste assets owned by your organization?

Provide your best estimate when exact figures are not available.  
 Report "0" when no assets completed construction during the period.  
 If a breakdown is not available, please provide the total.  
 Please report all amounts in **thousands** of Canadian dollars.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Solid waste assets</b>			
a. Transfer station assets	\$ <input type="text"/> ,000 <small>C6H13101</small>	\$ <input type="text"/> ,000 <small>C6H13201</small>	\$ <input type="text"/> ,000 <small>C6H13301</small>
<b>&gt; Waste diversion assets</b>			
b. Composting facilities	\$ <input type="text"/> ,000 <small>C6H13102</small>	\$ <input type="text"/> ,000 <small>C6H13202</small>	\$ <input type="text"/> ,000 <small>C6H13302</small>
c. Materials recovery facilities	\$ <input type="text"/> ,000 <small>C6H13103</small>	\$ <input type="text"/> ,000 <small>C6H13203</small>	\$ <input type="text"/> ,000 <small>C6H13303</small>
d. Anaerobic digestion facilities	\$ <input type="text"/> ,000 <small>C6H13104</small>	\$ <input type="text"/> ,000 <small>C6H13204</small>	\$ <input type="text"/> ,000 <small>C6H13304</small>
<b>&gt; Waste disposal assets</b>			
e. Active engineered landfills	\$ <input type="text"/> ,000 <small>C6H13105</small>	\$ <input type="text"/> ,000 <small>C6H13205</small>	\$ <input type="text"/> ,000 <small>C6H13305</small>
f. Active dump sites	\$ <input type="text"/> ,000 <small>C6H13106</small>	\$ <input type="text"/> ,000 <small>C6H13206</small>	\$ <input type="text"/> ,000 <small>C6H13306</small>
g. Closed sites i.e., inactive engineered landfills and dumps	\$ <input type="text"/> ,000 <small>C6H13107</small>	\$ <input type="text"/> ,000 <small>C6H13207</small>	\$ <input type="text"/> ,000 <small>C6H13307</small>
h. Incinerators	\$ <input type="text"/> ,000 <small>C6H13108</small>	\$ <input type="text"/> ,000 <small>C6H13208</small>	\$ <input type="text"/> ,000 <small>C6H13308</small>
i. Energy from waste facilities	\$ <input type="text"/> ,000 <small>C6H13109</small>	\$ <input type="text"/> ,000 <small>C6H13209</small>	\$ <input type="text"/> ,000 <small>C6H13309</small>
<b>Total for all solid waste facilities</b>	\$ <input type="text"/> ,000 <small>C6H13110</small>	\$ <input type="text"/> ,000 <small>C6H13210</small>	\$ <input type="text"/> ,000 <small>C6H13310</small>

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5. In 2022, did your organization acquire or bring into service any new solid waste assets for the following categories? For the new assets acquired, please provide the expected useful life.

Indicate the useful life (in years) for new assets acquired or brought into service during the year.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

> **Solid waste assets**

**a. Transfer station assets**

C6H15201

1  **Yes** - new transfer station assets acquired in 2022

↳ Expected transfer station assets useful life

C6H15101

2  **No** - no new transfer station assets acquired in 2022

> **Waste diversion assets**

**b. Composting facilities**

C6H15202

1  **Yes** - new composting facilities assets acquired in 2022

↳ Expected composting facilities useful life

C6H15102

2  **No** - no new composting facilities assets acquired in 2022

**c. Materials recovery facilities**

C6H15203

1  **Yes** - new materials recovery facilities assets acquired in 2022

↳ Expected materials recovery facilities useful life

C6H15103

2  **No** - no new materials recovery facilities assets acquired in 2022

**d. Anaerobic digestion facilities**

C6H15204

1  **Yes** - new anaerobic digestion facilities assets acquired in 2022

↳ Expected anaerobic digestion facilities useful life

C6H15104

2  **No** - no new anaerobic digestion facilities assets acquired in 2022

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> Waste disposal assets

**e. Active engineered landfills**

C6H15205

1  **Yes** - new active engineered landfills assets acquired in **2022**

↳ Expected active engineered landfills useful life

C6H15105

2  **No** - no new active engineered landfills assets acquired in **2022**

**f. Active dump sites**

C6H15206

1  **Yes** - new active dump sites assets acquired in **2022**

↳ Expected active dump sites useful life

C6H15106

2  **No** - no new active dump sites assets acquired in **2022**

**g. Closed sites**

i.e., inactive engineered landfills and dumps

C6H15207

1  **Yes** - new closed sites assets acquired in **2022**

↳ Expected closed sites useful life

C6H15107

2  **No** - no new closed sites assets acquired in **2022**

**h. Incinerators**

C6H15208

1  **Yes** - new incinerators assets acquired in **2022**

↳ Expected incinerators useful life

C6H15108

2  **No** - no new incinerators assets acquired in **2022**

**i. Energy from waste facilities**

C6H15209

1  **Yes** - new energy from waste facilities assets acquired in **2022**

↳ Expected energy from waste facilities useful life

C6H15109

2  **No** - no new energy from waste facilities assets acquired in **2022**

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6. Does your organization have a documented asset management plan for solid waste?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12305

1 Yes



**> At what frequency is the asset management plan for solid waste updated?**

**Indicate** the frequency in years, if applicable.

Number of years

COG11305

2 No



**> When does your organization plan to have a documented asset management plan in place for solid waste?**

**Indicate** in how many years a plan will be implemented, if applicable.

Number of years

COG13305

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**7.** What type of asset management information system does your organization use for solid waste?

Select only one answer.

Type of system

COG14305

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

**8.** In **2022**, what was the maturity level of your organization's asset management planning for solid waste?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01005

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

9. Do climate change adaptation or mitigation factor into your organization's decision-making process for solid waste?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Climate change adaptation and mitigation

COG00305

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

10. Does accessibility and universal design factor into your organization's decision-making process for solid waste?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Accessibility and universal design

COG00205

- 1  Accessibility
- 2  Universal design
- 3  Both accessibility and universal design
- 4  Not a factor
- 5  Do not know

## Definitions

### Question 1

#### Solid waste assets

##### Transfer station assets

**Include** facilities owned by your organization or leased by your organization through a capital lease agreement at which wastes transported by vehicles involved in collection are transferred to other vehicles that will transport the wastes to a disposal (landfill or incinerator) or recycling facility.

##### Waste diversion assets

**Include** composting facilities, materials recovery facilities, and anaerobic digestion facilities owned by your organization or leased by your organization through a capital lease agreement.

##### Waste disposal assets

**Include** active engineered landfills, active dump sites, closed sites (inactive engineered landfills and dumps), incinerators, and energy from waste facilities owned by your organization or leased by your organization through a capital lease agreement.

### Question 2

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory at December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

### Question 3

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident; minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

#### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

#### Very good

Sound physical condition. No short-term failure risk and no work required.

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life:

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.



## Definitions (continued)

### Question 4

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, **including** demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

### Question 5

Expected useful life of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

**Include** assets that were newly built, acquired or donated during the reference year.

**Exclude** the purchase or acquisition of used assets (existing assets acquired from another organization), ownership transfers, and asset betterments and renewals.

### Question 6

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

### Question 8

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

#### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

#### Optimizing (Level 4)

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

## Definitions (continued)

### Excellent (Level 5)

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### Question 9

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

### Climate change mitigation

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

### Question 10

#### Accessibility

This means taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

#### Universal design

This means supporting the usability of products and the built environment for the greatest number of people, including a wide spectrum of age groups and abilities. Universal design applies to the design of programs and services, technologies, transportation, instruction, and other products and environments.

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# Canada's Core Public Infrastructure Survey 2022

## Public Transit

CONFIDENTIAL once completed.

Si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant : 1-833-977-8287

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.**

### Survey purpose

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

### Confidentiality

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 the response 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, which you will return to Statistics Canada with your completed questionnaire. In this letter, please specify the organizations with which you do not want Statistics Canada to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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.

### Approved disclosure

**Section 17** of the federal *Statistics Act* allows for the disclosure of certain information relating to an individual, business or organization. Statistics Canada will only disclose information where there is a demonstrated statistical need and for the public good, and when it will not harm individuals, organizations or businesses if data were disclosed. For Canada's Core Public Infrastructure Survey, the Chief Statistician has authorized the release of data relating to individual government entities and public utilities. These include data on assets at the aggregate and individual level. Additionally, the names of provincial, regional and municipal government organizations will be released, as well as the variables used in sampling and estimation.

### Record linkages

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

### Additional information

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*.

### Who should complete this questionnaire?

The response to the Canada's Core Public Infrastructure Survey must be coordinated by the organization's asset manager, who will ensure that each asset-specific questionnaire is completed by the manager of the asset in question.

**Please return the questionnaire within 30 days.**

If you are unable to complete within 30 days **OR** if you need help, call us at **1-833-977-8287**.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)

## Reporting Instructions

- Report dollar amounts in **thousands of Canadian dollars**.
- Declare distances or lengths in kilometers.
- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter "0" if there is no value to report.

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## Public Transit

**1. What was your organization's final inventory count of public transit assets as of December 31, 2022?**

Provide your best estimate when exact figures are not available.  
Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Count	Total number of seats	Number of accessible seats (including wheelchair tie downs)
<b>&gt; Buses</b>			
a. Diesel	<input type="text"/> <small>C4B02101</small>	<input type="text"/> <small>C4B02201</small>	<input type="text"/> <small>C4B02301</small>
b. Bio-diesel	<input type="text"/> <small>C4B02102</small>	<input type="text"/> <small>C4B02202</small>	<input type="text"/> <small>C4B02302</small>
c. Electric Including battery electric, hydrogen fuel cell electric, and trolley.	<input type="text"/> <small>C4B02103</small>	<input type="text"/> <small>C4B02203</small>	<input type="text"/> <small>C4B02303</small>
d. Natural gas	<input type="text"/> <small>C4B02104</small>	<input type="text"/> <small>C4B02204</small>	<input type="text"/> <small>C4B02304</small>
e. Hybrid Includes diesel, biodiesel, and natural gas.	<input type="text"/> <small>C4B02105</small>	<input type="text"/> <small>C4B02205</small>	<input type="text"/> <small>C4B02305</small>
f. Gasoline	<input type="text"/> <small>C4B02124</small>	<input type="text"/> <small>C4B02224</small>	<input type="text"/> <small>C4B02324</small>
g. Other buses	<input type="text"/> <small>C4B02106</small>	<input type="text"/> <small>C4B02206</small>	<input type="text"/> <small>C4B02306</small>
<b>&gt; Other rolling stock assets</b>			
h. Streetcars	<input type="text"/> <small>C4B02107</small>	<input type="text"/> <small>C4B02207</small>	<input type="text"/> <small>C4B02307</small>
i. Ferries	<input type="text"/> <small>C4B02108</small>	<input type="text"/> <small>C4B02208</small>	<input type="text"/> <small>C4B02308</small>
j. Heavy railcars Include subway cars.	<input type="text"/> <small>C4B02109</small>	<input type="text"/> <small>C4B02209</small>	<input type="text"/> <small>C4B02309</small>
k. Commuter railcars Include locomotives.	<input type="text"/> <small>C4B02110</small>	<input type="text"/> <small>C4B02210</small>	<input type="text"/> <small>C4B02310</small>
l. Light railcars	<input type="text"/> <small>C4B02111</small>	<input type="text"/> <small>C4B02211</small>	<input type="text"/> <small>C4B02311</small>
m. Specialized transit Include para or handi transpo and dial a ride vehicles.	<input type="text"/> <small>C4B02112</small>	<input type="text"/> <small>C4B02212</small>	<input type="text"/> <small>C4B02312</small>

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	Count	Total number of seats	Number of accessible seats (including wheelchair tie downs)
<b>&gt; Other permanent public transit assets</b>			
n. Passenger stations and terminals	<input type="text"/> <small>C4B02113</small>		
o. Transit shelters	<input type="text"/> <small>C4B02114</small>		
p. Exclusive rights-of-ways	<input type="text"/> <small>C4B02115</small>		
<b>&gt; Other integrated assets of public transit</b>			
q. Parking lots	<input type="text"/> <small>C4B02116</small>		
r. Bicycle racks and shelters	<input type="text"/> <small>C4B02117</small>		
s. Passenger drop off facilities	<input type="text"/> <small>C4B02118</small>		
<b>&gt; Maintenance and storage facilities</b>			
t. Maintenance and storage facilities	<input type="text"/> <small>C4B02119</small>		
<b>&gt; Transit exclusive bridges and tunnels</b>			
u. Bridges	<input type="text"/> <small>C4B02120</small>		
v. Tunnels	<input type="text"/> <small>C4B02121</small>		
<b>&gt; Track and road network (Transit exclusive)</b>			
w. Tracks Indicate length in kilometers.	<input type="text"/> <small>C4B02122</small>		
x. Roads Indicate length in kilometers.	<input type="text"/> <small>C4B02123</small>		

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**2.** As of **December 31, 2022**, what was your organization’s final inventory count of public transit assets that allow for the accessibility features below?

Provide your best estimate when exact figures are not available.  
Report “0” when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Count
<b>a. Standard buses</b>	
<b>a1.</b> Standard buses low floor buses	<input type="text"/> <small>C4B02401</small>
<b>a2.</b> Standard buses with a lift or retractable ramp to support use by wheelchairs	<input type="text"/> <small>C4B02402</small>
<b>a3.</b> Standard buses with priority or dedicated seating for people with disabilities	<input type="text"/> <small>C4B02403</small>
<b>a4.</b> Standard buses with electronic signage which displays stop information	<input type="text"/> <small>C4B02404</small>
<b>a5.</b> Standard buses that broadcast audio alerts with stop information	<input type="text"/> <small>C4B02405</small>
<b>a6.</b> Standard buses which offer cashless fare payment	<input type="text"/> <small>C4B02406</small>
<b>b. Para-transit buses</b>	
<b>b1.</b> Para-transit buses low floor buses	<input type="text"/> <small>C4B02407</small>
<b>b2.</b> Para-transit buses with a lift or retractable ramp to support use by wheelchairs	<input type="text"/> <small>C4B02408</small>
<b>b3.</b> Para-transit buses with priority or dedicated seating for people with disabilities	<input type="text"/> <small>C4B02409</small>
<b>b4.</b> Para-transit buses with electronic signage which displays stop information	<input type="text"/> <small>C4B02410</small>
<b>b5.</b> Para-transit buses that broadcast audio alerts with stop information	<input type="text"/> <small>C4B02411</small>
<b>b6.</b> Para-transit buses which offer cashless fare payment	<input type="text"/> <small>C4B02412</small>

DO NOT USE TO REPORT

	Count
<b>c. Streetcars</b>	
<b>c1.</b> Streetcars wheelchair accessible trains	<input type="text"/> <small>C4B02413</small>
<b>c2.</b> Streetcars with priority or dedicated seating for people with disabilities	<input type="text"/> <small>C4B02414</small>
<b>c3.</b> Streetcars with electronic signage which displays stop information	<input type="text"/> <small>C4B02415</small>
<b>c4.</b> Streetcars that broadcast audio alerts with stop information	<input type="text"/> <small>C4B02416</small>
<b>c5.</b> Streetcars which offer cashless fare payment	<input type="text"/> <small>C4B02417</small>
<b>d. Heavy railcars</b>	
<b>d1.</b> Heavy railcars wheelchair accessible trains	<input type="text"/> <small>C4B02418</small>
<b>d2.</b> Heavy railcars with priority or dedicated seating for people with disabilities	<input type="text"/> <small>C4B02419</small>
<b>d3.</b> Heavy railcars with electronic signage which displays stop information	<input type="text"/> <small>C4B02420</small>
<b>d4.</b> Heavy railcars that broadcast audio alerts with stop information	<input type="text"/> <small>C4B02421</small>
<b>d5.</b> Heavy railcars which offer cashless fare payment	<input type="text"/> <small>C4B02422</small>
<b>e. Commuter railcars</b>	
<b>e1.</b> Commuter railcars wheelchair accessible trains	<input type="text"/> <small>C4B02423</small>
<b>e2.</b> Commuter railcars with priority or dedicated seating for people with disabilities	<input type="text"/> <small>C4B02424</small>
<b>e3.</b> Commuter railcars with electronic signage which displays stop information	<input type="text"/> <small>C4B02425</small>
<b>e4.</b> Commuter railcars that broadcast audio alerts with stop information	<input type="text"/> <small>C4B02426</small>
<b>e5.</b> Commuter railcars which offer cashless fare payment	<input type="text"/> <small>C4B02427</small>

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	Count
<b>f. Light railcars</b>	
<b>f1.</b> Light railcars wheelchair accessible trains	<input type="text"/> <small>C4B02428</small>
<b>f2.</b> Light railcars with priority or dedicated seating for people with disabilities	<input type="text"/> <small>C4B02429</small>
<b>f3.</b> Light railcars with electronic signage which displays stop information	<input type="text"/> <small>C4B02430</small>
<b>f4.</b> Light railcars that broadcast audio alerts with stop information	<input type="text"/> <small>C4B02431</small>
<b>f5.</b> Light railcars which offer cashless fare payment	<input type="text"/> <small>C4B02432</small>
<b>g. Passenger stations and terminals</b>	
<b>g1.</b> Passenger stations and terminals fully wheelchair accessible	<input type="text"/> <small>C4B02433</small>
<b>g2.</b> Passenger stations and terminals with audio announcements with arrival or departure information	<input type="text"/> <small>C4B02434</small>
<b>g3.</b> Passenger stations and terminals with video signage with arrival or departure information	<input type="text"/> <small>C4B02435</small>
<b>h. Transit shelters</b>	
<b>h1.</b> Transit shelters fully wheelchair accessible	<input type="text"/> <small>C4B02436</small>
<b>h2.</b> Transit shelters with audio announcements with arrival or departure information	<input type="text"/> <small>C4B02437</small>
<b>h3.</b> Transit shelters with video signage with arrival or departure information	<input type="text"/> <small>C4B02438</small>

DO NOT USE TO REPORT

**3.** Provide the distribution of your organization’s public transit infrastructure asset inventory based on the year of construction completion below.

Provide your best estimate when exact figures are not available.  
Report “0” when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>&gt; Buses</b>						
<b>a.</b> Diesel	<input type="text"/> <small>C4C04801</small>	<input type="text"/> <small>C4C05101</small>	<input type="text"/> <small>C4C04301</small>	<input type="text"/> <small>C4C04401</small>	<input type="text"/> <small>C4C04501</small>	<input type="text"/> <small>C4C04601</small>
<b>b.</b> Bio-diesel	<input type="text"/> <small>C4C04802</small>	<input type="text"/> <small>C4C05102</small>	<input type="text"/> <small>C4C04302</small>	<input type="text"/> <small>C4C04402</small>	<input type="text"/> <small>C4C04502</small>	<input type="text"/> <small>C4C04602</small>
<b>c.</b> Electric Including battery electric, hydrogen fuel cell electric, and trolley.	<input type="text"/> <small>C4C04803</small>	<input type="text"/> <small>C4C05103</small>	<input type="text"/> <small>C4C04303</small>	<input type="text"/> <small>C4C04403</small>	<input type="text"/> <small>C4C04503</small>	<input type="text"/> <small>C4C04603</small>
<b>d.</b> Natural gas	<input type="text"/> <small>C4C04804</small>	<input type="text"/> <small>C4C05104</small>	<input type="text"/> <small>C4C04304</small>	<input type="text"/> <small>C4C04404</small>	<input type="text"/> <small>C4C04504</small>	<input type="text"/> <small>C4C04604</small>
<b>e.</b> Hybrid Includes diesel, biodiesel, and natural gas.	<input type="text"/> <small>C4C04805</small>	<input type="text"/> <small>C4C05105</small>	<input type="text"/> <small>C4C04305</small>	<input type="text"/> <small>C4C04405</small>	<input type="text"/> <small>C4C04505</small>	<input type="text"/> <small>C4C04605</small>
<b>f.</b> Gasoline	<input type="text"/> <small>C4C04821</small>	<input type="text"/> <small>C4C04825</small>	<input type="text"/> <small>C4C04826</small>	<input type="text"/> <small>C4C04827</small>	<input type="text"/> <small>C4C04828</small>	<input type="text"/> <small>C4C04829</small>
<b>g.</b> Other buses	<input type="text"/> <small>C4C04806</small>	<input type="text"/> <small>C4C05106</small>	<input type="text"/> <small>C4C04306</small>	<input type="text"/> <small>C4C04406</small>	<input type="text"/> <small>C4C04506</small>	<input type="text"/> <small>C4C04606</small>
<b>&gt; Other rolling stock assets</b>						
<b>h.</b> Streetcars	<input type="text"/> <small>C4C04807</small>	<input type="text"/> <small>C4C05107</small>	<input type="text"/> <small>C4C04307</small>	<input type="text"/> <small>C4C04407</small>	<input type="text"/> <small>C4C04507</small>	<input type="text"/> <small>C4C04607</small>
<b>i.</b> Ferries	<input type="text"/> <small>C4C04808</small>	<input type="text"/> <small>C4C05108</small>	<input type="text"/> <small>C4C04308</small>	<input type="text"/> <small>C4C04408</small>	<input type="text"/> <small>C4C04508</small>	<input type="text"/> <small>C4C04608</small>
<b>j.</b> Heavy railcars Include subway cars.	<input type="text"/> <small>C4C04809</small>	<input type="text"/> <small>C4C05109</small>	<input type="text"/> <small>C4C04309</small>	<input type="text"/> <small>C4C04409</small>	<input type="text"/> <small>C4C04509</small>	<input type="text"/> <small>C4C04609</small>
<b>k.</b> Commuter railcars Include locomotives.	<input type="text"/> <small>C4C04810</small>	<input type="text"/> <small>C4C05110</small>	<input type="text"/> <small>C4C04310</small>	<input type="text"/> <small>C4C04410</small>	<input type="text"/> <small>C4C04510</small>	<input type="text"/> <small>C4C04610</small>
<b>l.</b> Light railcars	<input type="text"/> <small>C4C04811</small>	<input type="text"/> <small>C4C05111</small>	<input type="text"/> <small>C4C04311</small>	<input type="text"/> <small>C4C04411</small>	<input type="text"/> <small>C4C04511</small>	<input type="text"/> <small>C4C04611</small>
<b>m.</b> Specialized transit Include para or handi transpo and dial a ride vehicles.	<input type="text"/> <small>C4C04812</small>	<input type="text"/> <small>C4C05112</small>	<input type="text"/> <small>C4C04312</small>	<input type="text"/> <small>C4C04412</small>	<input type="text"/> <small>C4C04512</small>	<input type="text"/> <small>C4C04612</small>

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	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>&gt; Other permanent public transit assets</b>						
<b>n.</b> Passenger stations and terminals	<input type="text"/> C4C04813	<input type="text"/> C4C05113	<input type="text"/> C4C04313	<input type="text"/> C4C04413	<input type="text"/> C4C04513	<input type="text"/> C4C04613
<b>o.</b> Transit shelters	<input type="text"/> C4C04814	<input type="text"/> C4C05114	<input type="text"/> C4C04314	<input type="text"/> C4C04414	<input type="text"/> C4C04514	<input type="text"/> C4C04614
<b>p.</b> Exclusive rights-of-ways	<input type="text"/> C4C04815	<input type="text"/> C4C05115	<input type="text"/> C4C04315	<input type="text"/> C4C04415	<input type="text"/> C4C04515	<input type="text"/> C4C04615
<b>&gt; Other integrated assets of public transit</b>						
<b>q.</b> Parking lots	<input type="text"/> C4C04816	<input type="text"/> C4C05116	<input type="text"/> C4C04316	<input type="text"/> C4C04416	<input type="text"/> C4C04516	<input type="text"/> C4C04616
<b>r.</b> Bicycle racks and shelters	<input type="text"/> C4C04817	<input type="text"/> C4C05117	<input type="text"/> C4C04317	<input type="text"/> C4C04417	<input type="text"/> C4C04517	<input type="text"/> C4C04617
<b>s.</b> Passenger drop off facilities	<input type="text"/> C4C04818	<input type="text"/> C4C05118	<input type="text"/> C4C04318	<input type="text"/> C4C04418	<input type="text"/> C4C04518	<input type="text"/> C4C04618
<b>&gt; Maintenance and storage facilities</b>						
<b>t.</b> Maintenance and storage facilities	<input type="text"/> C4C04819	<input type="text"/> C4C05119	<input type="text"/> C4C04319	<input type="text"/> C4C04419	<input type="text"/> C4C04519	<input type="text"/> C4C04619
<b>&gt; Transit exclusive bridges and tunnels</b>						
<b>u.</b> Bridges	<input type="text"/> C4C04820	<input type="text"/> C4C05120	<input type="text"/> C4C04320	<input type="text"/> C4C04420	<input type="text"/> C4C04520	<input type="text"/> C4C04620
<b>v.</b> Tunnels	<input type="text"/> C4C04821	<input type="text"/> C4C05121	<input type="text"/> C4C04321	<input type="text"/> C4C04421	<input type="text"/> C4C04521	<input type="text"/> C4C04621
<b>&gt; Track and road network (Transit exclusive)</b>						
<b>w.</b> Tracks Indicate length in kilometers.	<input type="text"/> C4C04822	<input type="text"/> C4C05122	<input type="text"/> C4C04322	<input type="text"/> C4C04422	<input type="text"/> C4C04522	<input type="text"/> C4C04622
<b>x.</b> Roads Indicate length in kilometers.	<input type="text"/> C4C04823	<input type="text"/> C4C05123	<input type="text"/> C4C04323	<input type="text"/> C4C04423	<input type="text"/> C4C04523	<input type="text"/> C4C04623

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4. In 2022, what was the overall physical condition of your organization's public transit assets?

Indicate the percent distribution of your assets by using the condition rating scale. This includes items to be decommissioned. Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>&gt; Buses</b>						
a. Diesel	<input type="text"/> % <small>C4F07101</small>	<input type="text"/> % <small>C4F07201</small>	<input type="text"/> % <small>C4F07301</small>	<input type="text"/> % <small>C4F07401</small>	<input type="text"/> % <small>C4F07501</small>	<input type="text"/> % <small>C4F07601</small>
b. Bio-diesel	<input type="text"/> % <small>C4F07102</small>	<input type="text"/> % <small>C4F07202</small>	<input type="text"/> % <small>C4F07302</small>	<input type="text"/> % <small>C4F07402</small>	<input type="text"/> % <small>C4F07502</small>	<input type="text"/> % <small>C4F07602</small>
c. Electric Including battery electric, hydrogen fuel cell electric, and trolley.	<input type="text"/> % <small>C4F07103</small>	<input type="text"/> % <small>C4F07203</small>	<input type="text"/> % <small>C4F07303</small>	<input type="text"/> % <small>C4F07403</small>	<input type="text"/> % <small>C4F07503</small>	<input type="text"/> % <small>C4F07603</small>
d. Natural gas	<input type="text"/> % <small>C4F07104</small>	<input type="text"/> % <small>C4F07204</small>	<input type="text"/> % <small>C4F07304</small>	<input type="text"/> % <small>C4F07404</small>	<input type="text"/> % <small>C4F07504</small>	<input type="text"/> % <small>C4F07604</small>
e. Hybrid Includes diesel, biodiesel, and natural gas.	<input type="text"/> % <small>C4F07105</small>	<input type="text"/> % <small>C4F07205</small>	<input type="text"/> % <small>C4F07305</small>	<input type="text"/> % <small>C4F07405</small>	<input type="text"/> % <small>C4F07505</small>	<input type="text"/> % <small>C4F07605</small>
f. Gasoline	<input type="text"/> % <small>C4F07104</small>	<input type="text"/> % <small>C4F07224</small>	<input type="text"/> % <small>C4F07324</small>	<input type="text"/> % <small>C4F07424</small>	<input type="text"/> % <small>C4F07524</small>	<input type="text"/> % <small>C4F07624</small>
g. Other buses	<input type="text"/> % <small>C4F07106</small>	<input type="text"/> % <small>C4F07206</small>	<input type="text"/> % <small>C4F07306</small>	<input type="text"/> % <small>C4F07406</small>	<input type="text"/> % <small>C4F07506</small>	<input type="text"/> % <small>C4F07606</small>
<b>&gt; Other rolling stock assets</b>						
h. Streetcars	<input type="text"/> % <small>C4F07107</small>	<input type="text"/> % <small>C4F07207</small>	<input type="text"/> % <small>C4F07307</small>	<input type="text"/> % <small>C4F07407</small>	<input type="text"/> % <small>C4F07507</small>	<input type="text"/> % <small>C4F07607</small>
i. Ferries	<input type="text"/> % <small>C4F07108</small>	<input type="text"/> % <small>C4F07208</small>	<input type="text"/> % <small>C4F07308</small>	<input type="text"/> % <small>C4F07408</small>	<input type="text"/> % <small>C4F07508</small>	<input type="text"/> % <small>C4F07608</small>
j. Heavy railcars Include subway cars.	<input type="text"/> % <small>C4F07109</small>	<input type="text"/> % <small>C4F07209</small>	<input type="text"/> % <small>C4F07309</small>	<input type="text"/> % <small>C4F07409</small>	<input type="text"/> % <small>C4F07509</small>	<input type="text"/> % <small>C4F07609</small>
k. Commuter railcars Include locomotives.	<input type="text"/> % <small>C4F07110</small>	<input type="text"/> % <small>C4F07210</small>	<input type="text"/> % <small>C4F07310</small>	<input type="text"/> % <small>C4F07410</small>	<input type="text"/> % <small>C4F07510</small>	<input type="text"/> % <small>C4F07610</small>
l. Light railcars	<input type="text"/> % <small>C4F07111</small>	<input type="text"/> % <small>C4F07211</small>	<input type="text"/> % <small>C4F07311</small>	<input type="text"/> % <small>C4F07411</small>	<input type="text"/> % <small>C4F07511</small>	<input type="text"/> % <small>C4F07611</small>
m. Specialized transit Include para or handi transpo and dial a ride vehicles.	<input type="text"/> % <small>C4F07112</small>	<input type="text"/> % <small>C4F07212</small>	<input type="text"/> % <small>C4F07312</small>	<input type="text"/> % <small>C4F07412</small>	<input type="text"/> % <small>C4F07512</small>	<input type="text"/> % <small>C4F07612</small>

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	Very poor	Poor	Fair	Good	Very good	Do not know
<b>&gt; Other permanent public transit assets</b>						
<b>n.</b> Passenger stations and terminals	<input type="text"/> % <small>C4F07113</small>	<input type="text"/> % <small>C4F07213</small>	<input type="text"/> % <small>C4F07313</small>	<input type="text"/> % <small>C4F07413</small>	<input type="text"/> % <small>C4F07513</small>	<input type="text"/> % <small>C4F07613</small>
<b>o.</b> Transit shelters	<input type="text"/> % <small>C4F07114</small>	<input type="text"/> % <small>C4F07214</small>	<input type="text"/> % <small>C4F07314</small>	<input type="text"/> % <small>C4F07414</small>	<input type="text"/> % <small>C4F07514</small>	<input type="text"/> % <small>C4F07614</small>
<b>p.</b> Exclusive rights-of-ways	<input type="text"/> % <small>C4F07115</small>	<input type="text"/> % <small>C4F07215</small>	<input type="text"/> % <small>C4F07315</small>	<input type="text"/> % <small>C4F07415</small>	<input type="text"/> % <small>C4F07515</small>	<input type="text"/> % <small>C4F07615</small>
<b>&gt; Other integrated assets of public transit</b>						
<b>q.</b> Parking lots	<input type="text"/> % <small>C4F07116</small>	<input type="text"/> % <small>C4F07216</small>	<input type="text"/> % <small>C4F07316</small>	<input type="text"/> % <small>C4F07416</small>	<input type="text"/> % <small>C4F07516</small>	<input type="text"/> % <small>C4F07616</small>
<b>r.</b> Bicycle racks and shelters	<input type="text"/> % <small>C4F07117</small>	<input type="text"/> % <small>C4F07217</small>	<input type="text"/> % <small>C4F07317</small>	<input type="text"/> % <small>C4F07417</small>	<input type="text"/> % <small>C4F07517</small>	<input type="text"/> % <small>C4F07617</small>
<b>s.</b> Passenger drop off facilities	<input type="text"/> % <small>C4F07118</small>	<input type="text"/> % <small>C4F07218</small>	<input type="text"/> % <small>C4F07318</small>	<input type="text"/> % <small>C4F07418</small>	<input type="text"/> % <small>C4F07518</small>	<input type="text"/> % <small>C4F07618</small>
<b>&gt; Maintenance and storage facilities</b>						
<b>t.</b> Maintenance and storage facilities	<input type="text"/> % <small>C4F07119</small>	<input type="text"/> % <small>C4F07219</small>	<input type="text"/> % <small>C4F07319</small>	<input type="text"/> % <small>C4F07419</small>	<input type="text"/> % <small>C4F07519</small>	<input type="text"/> % <small>C4F07619</small>
<b>&gt; Transit exclusive bridges and tunnels</b>						
<b>u.</b> Bridges	<input type="text"/> % <small>C4F07120</small>	<input type="text"/> % <small>C4F07220</small>	<input type="text"/> % <small>C4F07320</small>	<input type="text"/> % <small>C4F07420</small>	<input type="text"/> % <small>C4F07520</small>	<input type="text"/> % <small>C4F07620</small>
<b>v.</b> Tunnels	<input type="text"/> % <small>C4F07121</small>	<input type="text"/> % <small>C4F07221</small>	<input type="text"/> % <small>C4F07321</small>	<input type="text"/> % <small>C4F07421</small>	<input type="text"/> % <small>C4F07521</small>	<input type="text"/> % <small>C4F07621</small>
<b>&gt; Track and road network (Transit exclusive)</b>						
<b>w.</b> Tracks	<input type="text"/> % <small>C4F07122</small>	<input type="text"/> % <small>C4F07222</small>	<input type="text"/> % <small>C4F07322</small>	<input type="text"/> % <small>C4F07422</small>	<input type="text"/> % <small>C4F07522</small>	<input type="text"/> % <small>C4F07622</small>
<b>x.</b> Roads	<input type="text"/> % <small>C4F07123</small>	<input type="text"/> % <small>C4F07223</small>	<input type="text"/> % <small>C4F07323</small>	<input type="text"/> % <small>C4F07423</small>	<input type="text"/> % <small>C4F07523</small>	<input type="text"/> % <small>C4F07623</small>

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5. What is the **2022** estimated replacement value, required renewal budget, and actual renewal budget of public transit assets owned by your organization?

Provide your best estimate when exact figures are not available.  
 Report "0" when the organization does not own or lease the asset.  
 If a breakdown is not available, please provide the total.  
 Please report all amounts in **thousands** of Canadian dollars.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Buses</b>			
a. Diesel	\$ <input type="text"/> ,000 <small>C4H19101</small>	\$ <input type="text"/> ,000 <small>C4H19201</small>	\$ <input type="text"/> ,000 <small>C4H19301</small>
b. Bio-diesel	\$ <input type="text"/> ,000 <small>C4H19102</small>	\$ <input type="text"/> ,000 <small>C4H19202</small>	\$ <input type="text"/> ,000 <small>C4H19302</small>
c. Electric Including battery electric, hydrogen fuel cell electric, and trolley.	\$ <input type="text"/> ,000 <small>C4H19103</small>	\$ <input type="text"/> ,000 <small>C4H19203</small>	\$ <input type="text"/> ,000 <small>C4H19303</small>
d. Natural gas	\$ <input type="text"/> ,000 <small>C4H19104</small>	\$ <input type="text"/> ,000 <small>C4H19204</small>	\$ <input type="text"/> ,000 <small>C4H19304</small>
e. Hybrid Includes diesel, biodiesel, and natural gas.	\$ <input type="text"/> ,000 <small>C4H19105</small>	\$ <input type="text"/> ,000 <small>C4H19205</small>	\$ <input type="text"/> ,000 <small>C4H19305</small>
f. Gasoline	\$ <input type="text"/> ,000 <small>C4H19124</small>	\$ <input type="text"/> ,000 <small>C4H19224</small>	\$ <input type="text"/> ,000 <small>C4H19324</small>
g. Other buses	\$ <input type="text"/> ,000 <small>C4H19106</small>	\$ <input type="text"/> ,000 <small>C4H19206</small>	\$ <input type="text"/> ,000 <small>C4H19306</small>
<b>Total buses</b>	\$ <input type="text"/> ,000 <small>C4H19125</small>	\$ <input type="text"/> ,000 <small>C4H19225</small>	\$ <input type="text"/> ,000 <small>C4H19325</small>

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	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Other rolling stock assets</b>			
<b>h.</b> Streetcars	\$ <input type="text"/> ,000 <small>C4H19107</small>	\$ <input type="text"/> ,000 <small>C4H19207</small>	\$ <input type="text"/> ,000 <small>C4H19307</small>
<b>i.</b> Ferries	\$ <input type="text"/> ,000 <small>C4H19108</small>	\$ <input type="text"/> ,000 <small>C4H19208</small>	\$ <input type="text"/> ,000 <small>C4H19308</small>
<b>j.</b> Heavy railcars <b>Include</b> subway cars.	\$ <input type="text"/> ,000 <small>C4H19109</small>	\$ <input type="text"/> ,000 <small>C4H19209</small>	\$ <input type="text"/> ,000 <small>C4H19309</small>
<b>k.</b> Commuter railcars <b>Include</b> locomotives.	\$ <input type="text"/> ,000 <small>C4H19110</small>	\$ <input type="text"/> ,000 <small>C4H19210</small>	\$ <input type="text"/> ,000 <small>C4H19310</small>
<b>l.</b> Light railcars	\$ <input type="text"/> ,000 <small>C4H19111</small>	\$ <input type="text"/> ,000 <small>C4H19211</small>	\$ <input type="text"/> ,000 <small>C4H19311</small>
<b>m.</b> Specialized transit <b>Include</b> para or handi transpo and dial a ride vehicles.	\$ <input type="text"/> ,000 <small>C4H19112</small>	\$ <input type="text"/> ,000 <small>C4H19212</small>	\$ <input type="text"/> ,000 <small>C4H19312</small>
<b>Total rolling stock</b>	\$ <input type="text"/> ,000 <small>C4H19126</small>	\$ <input type="text"/> ,000 <small>C4H19226</small>	\$ <input type="text"/> ,000 <small>C4H19326</small>

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	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Other permanent public transit assets</b>			
n. Passenger stations and terminals	\$ <input type="text"/> ,000 <small>C4H19113</small>	\$ <input type="text"/> ,000 <small>C4H19213</small>	\$ <input type="text"/> ,000 <small>C4H19313</small>
o. Transit shelters	\$ <input type="text"/> ,000 <small>C4H19114</small>	\$ <input type="text"/> ,000 <small>C4H19214</small>	\$ <input type="text"/> ,000 <small>C4H19314</small>
p. Exclusive rights-of-ways	\$ <input type="text"/> ,000 <small>C4H19115</small>	\$ <input type="text"/> ,000 <small>C4H19215</small>	\$ <input type="text"/> ,000 <small>C4H19315</small>
<b>&gt; Other integrated assets of public transit</b>			
q. Parking lots	\$ <input type="text"/> ,000 <small>C4H19116</small>	\$ <input type="text"/> ,000 <small>C4H19216</small>	\$ <input type="text"/> ,000 <small>C4H19316</small>
r. Bicycle racks and shelters	\$ <input type="text"/> ,000 <small>C4H19117</small>	\$ <input type="text"/> ,000 <small>C4H19217</small>	\$ <input type="text"/> ,000 <small>C4H19317</small>
s. Passenger drop off facilities	\$ <input type="text"/> ,000 <small>C4H19118</small>	\$ <input type="text"/> ,000 <small>C4H19218</small>	\$ <input type="text"/> ,000 <small>C4H19318</small>
<b>&gt; Maintenance and storage facilities</b>			
t. Maintenance and storage facilities	\$ <input type="text"/> ,000 <small>C4H19119</small>	\$ <input type="text"/> ,000 <small>C4H19219</small>	\$ <input type="text"/> ,000 <small>C4H19319</small>
<b>Total other facilities</b>	\$ <input type="text"/> ,000 <small>C4H19127</small>	\$ <input type="text"/> ,000 <small>C4H19227</small>	\$ <input type="text"/> ,000 <small>C4H19327</small>

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	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Transit exclusive bridges and tunnels</b>			
<b>u. Bridges</b>	\$ <input type="text"/> ,000 <small>C4H19120</small>	\$ <input type="text"/> ,000 <small>C4H19220</small>	\$ <input type="text"/> ,000 <small>C4H19320</small>
<b>v. Tunnels</b>	\$ <input type="text"/> ,000 <small>C4H19121</small>	\$ <input type="text"/> ,000 <small>C4H19221</small>	\$ <input type="text"/> ,000 <small>C4H19321</small>
<b>Total bridges and tunnels</b>	\$ <input type="text"/> ,000 <small>C4H19128</small>	\$ <input type="text"/> ,000 <small>C4H19228</small>	\$ <input type="text"/> ,000 <small>C4H19328</small>
<b>&gt; Track and road network (Transit exclusive)</b>			
<b>w. Tracks</b> Indicate length in kilometers.	\$ <input type="text"/> ,000 <small>C4H19122</small>	\$ <input type="text"/> ,000 <small>C4H19222</small>	\$ <input type="text"/> ,000 <small>C4H19322</small>
<b>x. Roads</b> Indicate length in kilometers.	\$ <input type="text"/> ,000 <small>C4H19123</small>	\$ <input type="text"/> ,000 <small>C4H19223</small>	\$ <input type="text"/> ,000 <small>C4H19323</small>
<b>Total tracks and roads</b>	\$ <input type="text"/> ,000 <small>C4H19129</small>	\$ <input type="text"/> ,000 <small>C4H19229</small>	\$ <input type="text"/> ,000 <small>C4H19329</small>

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6. In 2022, did your organization acquire or bring into service any new public transit assets for the following categories? For the new assets acquired, please provide the expected useful life.

Indicate the useful life (in years) for new assets acquired or brought into service during the year.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

> Buses

> a. Diesel

C4H22201

- 1  Yes - new diesel assets acquired in 2022

Expected diesel useful life

C4H222101

- 2  No - no new diesel assets acquired in 2022

> b. Bio-diesel

C4H22202

- 1  Yes - new bio-diesel assets acquired in 2022

Expected bio-diesel useful life

C4H222102

- 2  No - no new bio-diesel assets acquired in 2022

> c. Electric

Including battery electric, hydrogen fuel cell electric, and trolley.

C4H22203

- 1  Yes - new electric assets acquired in 2022

Expected electric useful life

C4H222103

- 2  No - no new electric assets acquired in 2022

> d. Natural gas

C4H22204

- 1  Yes - new natural gas assets acquired in 2022

Expected natural gas useful life

C4H222104

- 2  No - no new natural gas assets acquired in 2022

> e. Hybrid

Includes diesel, biodiesel, and natural gas.

C4H22205

- 1  Yes - new hybrid assets acquired in 2022

Expected hybrid useful life

C4H222105

- 2  No - no new hybrid assets acquired in 2022

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> f. Gasoline

C4H22224

1  **Yes** - new gasoline assets acquired in **2022**

Expected gasoline useful life

C4H22124

2  **No** - no new gasoline assets acquired in **2022**

> g. Other buses

C4H22206

1  **Yes** - new other buses assets acquired in **2022**

Expected other buses useful life

C4H22106

2  **No** - no new other buses assets acquired in **2022**

> Other rolling stock assets

> h. Streetcars

C4H22207

1  **Yes** - new streetcars assets acquired in **2022**

Expected streetcars useful life

C4H22107

2  **No** - no new streetcars assets acquired in **2022**

> i. Ferries

C4H22208

1  **Yes** - new ferries assets acquired in **2022**

Expected ferries useful life

C4H22108

2  **No** - no new ferries assets acquired in **2022**

> j. Heavy railcars

Include subway cars.

C4H22209

1  **Yes** - new heavy railcars assets acquired in **2022**

Expected heavy railcars useful life

C4H22109

2  **No** - no new heavy railcars assets acquired in **2022**

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**> k. Commuter railcars**

Include locomotives.

C4H22210

1  **Yes** - new commuter railcars assets acquired in **2022**

Expected commuter railcars useful life

C4H22210

2  **No** - no new commuter railcars assets acquired in **2022**

**> l. Light railcars**

C4H22211

1  **Yes** - new light railcars assets acquired in **2022**

Expected light railcars useful life

C4H22211

2  **No** - no new light railcars assets acquired in **2022**

**> m. Specialized transit**

Include para or handi transpo and dial a ride vehicles.

C4H22212

1  **Yes** - new specialized transit assets acquired in **2022**

Expected specialized transit useful life

C4H22212

2  **No** - no new specialized transit assets acquired in **2022**

**> Other permanent public transit assets**

**> n. Passenger stations and terminals**

C4H22213

1  **Yes** - new passenger stations and terminals assets acquired in **2022**

Expected passenger stations and terminals useful life

C4H22213

2  **No** - no new passenger stations and terminals assets acquired in **2022**

**> o. Transit shelters**

C4H22214

1  **Yes** - new transit shelters assets acquired in **2022**

Expected transit shelters useful life

C4H22214

2  **No** - no new transit shelters assets acquired in **2022**

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> **p. Exclusive rights-of-ways**

C4H22215

1  **Yes** - new exclusive rights-of-ways assets acquired in **2022**

Expected exclusive rights-of-ways useful life

C4H22215

2  **No** - no new exclusive rights-of-ways assets acquired in **2022**

> **Other integrated assets of public transit**

> **q. Parking lots**

C4H22216

1  **Yes** - new parking lots assets acquired in **2022**

Expected parking lots useful life

C4H22216

2  **No** - no new parking lots assets acquired in **2022**

> **r. Bicycle racks and shelters**

C4H22217

1  **Yes** - new bicycle racks and shelters assets acquired in **2022**

Expected bicycle racks and shelters useful life

C4H22217

2  **No** - no new bicycle racks and shelters assets acquired in **2022**

> **s. Passenger drop off facilities**

C4H22218

1  **Yes** - new passenger drop off facilities assets acquired in **2022**

Expected passenger drop off facilities useful life

C4H22218

2  **No** - no new passenger drop off facilities assets acquired in **2022**

> **Maintenance and storage facilities**

> **t. Maintenance and storage facilities**

C4H22219

1  **Yes** - new maintenance and storage facilities assets acquired in **2022**

Expected maintenance and storage facilities useful life

C4H22219

2  **No** - no new maintenance and storage facilities assets acquired in **2022**

> Transit exclusive bridges and tunnels

> u. Bridges

C4H22220  
1  **Yes** - new bridges assets acquired in **2022**

↳ Expected bridges useful life

C4H22120

2  **No** - no new bridges assets acquired in **2022**

> v. Tunnels

C4H22221  
1  **Yes** - new tunnels assets acquired in **2022**

↳ Expected tunnels useful life

C4H22121

2  **No** - no new tunnels assets acquired in **2022**

> Track and road network (Transit exclusive)

> w. Tracks

C4H22222  
1  **Yes** - new tracks assets acquired in **2022**

↳ Expected tracks useful life

C4H22122

2  **No** - no new tracks assets acquired in **2022**

> x. Roads

C4H22223  
1  **Yes** - new roads assets acquired in **2022**

↳ Expected roads useful life

C4H22123

2  **No** - no new roads assets acquired in **2022**

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7. What is the capacity of your bus depots (in 40-foot bus equivalents)?

Capacity

C4H00101

8. What is the bus charging capacity of your fixed assets in kilowatthours?

Kilowatthours

C4H00102

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9. Does your organization have geographical information available about public transit systems?

C4H00103

1  Yes

**> Please provide the following information**

**Type of information**  
Select all that apply.

- 1  Transit routes  
C4H00104
- 1  Schedules  
C4H00105
- 1  Stop locations  
C4H00106
- 1  Other  
C4H00107

Specify other type of information  
  
C4H00108

**Data format**  
Select all that apply.

- 1  General Transit Feed Specification (GTFS)  
C4H00109
- 1  Real Time General Transit Feed Specification (RT-GTFS API)  
C4H00110
- 1  Shapefile  
C4H00111
- 1  Kml/kmz  
C4H00112
- 1  Static map image (pdf/jpg)  
C4H00113
- 1  Excel/csv  
C4H00114
- 1  JSON  
C4H00115
- 1  GEOJSON  
C4H00116
- 1  Other  
C4H00117

Specify other data format  
  
C4H00118





### Frequency of the data updates

Select all that apply.

1  Weekly  
C4H00119

1  Monthly  
C4H00120

1  Quarterly  
C4H00121

1  Annually  
C4H00122

1  Other  
C4H00123

Specify other frequency

C4H00124

Date of the last update

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Y	Y	Y	Y	M	M	D	D

C4H00125

### Public data sharing platform or tool or service

Select all that apply.

1  Web services (WMS, WFS)  
C4H00126

1  Web application  
C4H00127

1  Data portal  
C4H00128

1  Other  
C4H00129

Specify other sharing tool

C4H00130

Please provide URL or Links (if available)

C4H00131

2  No

10. Does your organization have a documented asset management plan for public transit?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12301

1  Yes



> At what frequency is the asset management plan for public transit updated?

Indicate the frequency in years, if applicable.

Number of years

COG11301

2  No



> When does your organization plan to have a documented asset management plan in place for public transit?

Indicate in how many years a plan will be implemented, if applicable.

Number of years

COG13301

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**11.** What type of asset management information system does your organization use for public transit?

Select only one answer.

Type of system

COG14301

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

**12.** In 2022, what was the maturity level of your organization's asset management planning for public transit?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01001

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

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**13.** Do climate change adaptation or mitigation factor into your organization's decision-making process for public transit?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Climate change adaptation and mitigation

COG00301

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

**14.** Does accessibility and universal design factor into your organization's decision-making process for public transit?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Accessibility and universal design

COG00201

- 1  Accessibility
- 2  Universal design
- 3  Both accessibility and universal design
- 4  Not a factor
- 5  Do not know

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## Definitions

### Question 1

#### Streetcars

Rail vehicles which run on tramway tracks along public urban streets.

#### Ferries

Vessels that transport passengers across a body of water within a metropolitan area.

#### Heavy railcars

Electric, high-speed, passenger railway cars with the capacity to handle a heavy volume of traffic.

#### Commuter railcars

Passenger railcars (multiple-unit or locomotive) used for transport service that primarily operates between a city centre and middle to outer suburbs.

#### Light railcars

Urban rail transit rolling stock operating on exclusive rights-of-way with lower passenger capacity and lower speed compared to heavy railcars.

#### Specialized transit

Transportation services providing accommodation to persons with disabilities (para or handi transpo and dial-a-ride).

### Question 2

#### Accessibility

Taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

### Question 3

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory at December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

### Question 4

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident; minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

#### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

#### Very good

Sound physical condition. No short-term failure risk and no work required.

## Definitions (continued)

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life:

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.

### Question 5

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, **including** demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

### Question 6

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

**Include** assets that were newly built, acquired or donated during the reference year.

**Exclude** the purchase or acquisition of used assets (existing assets acquired from another organization), ownership transfers, and asset betterments and renewals.

### Question 10

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

### Question 12

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

#### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

## Definitions (continued)

### Optimizing (Level 4)

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

### Excellent (Level 5)

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### Question 13

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

### Climate change mitigation

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

### Question 14

#### Accessibility

This means taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

#### Universal design

This means supporting the usability of products and the built environment for the greatest number of people, **including** a wide spectrum of age groups and abilities. Universal design applies to the design of programs and services, technologies, transportation, instruction, and other products and environments.

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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.

**Survey purpose**

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

**Confidentiality**

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 the response 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, which you will return to Statistics Canada with your completed questionnaire. In this letter, please specify the organizations with which you do not want Statistics Canada to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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.

**Approved disclosure**

**Section 17** of the federal *Statistics Act* allows for the disclosure of certain information relating to an individual, business or organization. Statistics Canada will only disclose information where there is a demonstrated statistical need and for the public good, and when it will not harm individuals, organizations or businesses if data were disclosed. For Canada's Core Public Infrastructure Survey, the Chief Statistician has authorized the release of data relating to individual government entities and public utilities. These include data on assets at the aggregate and individual level. Additionally, the names of provincial, regional and municipal government organizations will be released, as well as the variables used in sampling and estimation.

**Record linkages**

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

**Additional information**

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*.

**Who should complete this questionnaire?**

The response to the Canada's Core Public Infrastructure Survey must be coordinated by the organization's asset manager, who will ensure that each asset-specific questionnaire is completed by the manager of the asset in question.

Please return the questionnaire within 30 days.

If you are unable to complete within 30 days OR if you need help, call us at 1-833-977-8287.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)





## Reporting Instructions

- Report dollar amounts in **thousands of Canadian dollars**.
- Declare distances or lengths in kilometers.
- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter "0" if there is no value to report.

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## Active Transportation

**1.** What was your organization's final inventory count or length of active transportation assets as of **December 31, 2022**?

Provide your best estimate when exact figures are not available.  
Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

		Length in kilometres	Count
<b>a.</b>	<b>Bikeways or Cycleways</b>		
<b>a1.</b>	High-comfort bikeways	<input type="text"/> <small>C11B0101</small>	
<b>a2.</b>	Medium-comfort bikeways	<input type="text"/> <small>C11B0102</small>	
<b>a3.</b>	Low-comfort bikeways	<input type="text"/> <small>C11B0103</small>	
<b>b.</b>	Paved pathways <b>Excludes</b> bikeways.	<input type="text"/> <small>C11B0104</small>	
<b>c.</b>	Non-paved trails	<input type="text"/> <small>C11B0105</small>	
<b>d.</b>	Sidewalks	<input type="text"/> <small>C5B02106</small>	
<b>e.</b>	Footbridges	<input type="text"/> <small>C11B01105</small>	<input type="text"/> <small>C11B0108</small>
<b>f.</b>	Pedestrian tunnels	<input type="text"/> <small>C11B0106</small>	<input type="text"/> <small>C11B0107</small>

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**2.** Provide the distribution of your organization’s active transportation assets inventory count based on the year of construction completion below.

Provide your best estimate when exact figures are not available.  
Report “0” when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>a. Bikeways or Cycleways</b>						
<b>a1. High-comfort bikeways</b>	<input type="text"/> <small>C11C0101</small>	<input type="text"/> <small>C11C0201</small>	<input type="text"/> <small>C11C0301</small>	<input type="text"/> <small>C11C0401</small>	<input type="text"/> <small>C11C0501</small>	<input type="text"/> <small>C11C0601</small>
<b>a2. Medium-comfort bikeways</b>	<input type="text"/> <small>C11C0102</small>	<input type="text"/> <small>C11C0202</small>	<input type="text"/> <small>C11C0302</small>	<input type="text"/> <small>C11C0402</small>	<input type="text"/> <small>C11C0502</small>	<input type="text"/> <small>C11C0602</small>
<b>a3. Low-comfort bikeways</b>	<input type="text"/> <small>C11C0103</small>	<input type="text"/> <small>C11C0203</small>	<input type="text"/> <small>C11C0303</small>	<input type="text"/> <small>C11C0403</small>	<input type="text"/> <small>C11C0503</small>	<input type="text"/> <small>C11C0603</small>
<b>b. Paved pathways Excludes bikeways.</b>	<input type="text"/> <small>C11C0104</small>	<input type="text"/> <small>C11C0204</small>	<input type="text"/> <small>C11C0304</small>	<input type="text"/> <small>C11C0404</small>	<input type="text"/> <small>C11C0504</small>	<input type="text"/> <small>C11C0604</small>
<b>c. Non-paved trails</b>	<input type="text"/> <small>C11C0107</small>	<input type="text"/> <small>C11C0207</small>	<input type="text"/> <small>C11C0307</small>	<input type="text"/> <small>C11C0407</small>	<input type="text"/> <small>C11C0507</small>	<input type="text"/> <small>C11C0607</small>
<b>d. Sidewalks</b>	<input type="text"/> <small>C11C0106</small>	<input type="text"/> <small>C11C0206</small>	<input type="text"/> <small>C5C03306</small>	<input type="text"/> <small>C5C03406</small>	<input type="text"/> <small>C5C03506</small>	<input type="text"/> <small>C5C03606</small>
<b>e. Footbridges</b>	<input type="text"/> <small>C11C0105</small>	<input type="text"/> <small>C11C0205</small>	<input type="text"/> <small>C1C02305</small>	<input type="text"/> <small>C1C02405</small>	<input type="text"/> <small>C1C02505</small>	<input type="text"/> <small>C1C02605</small>
<b>f. Pedestrian tunnels</b>	<input type="text"/> <small>C11C0108</small>	<input type="text"/> <small>C11C0208</small>	<input type="text"/> <small>C11C0308</small>	<input type="text"/> <small>C11C0408</small>	<input type="text"/> <small>C11C0508</small>	<input type="text"/> <small>C11C0608</small>

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**3. In 2022, what was the overall physical condition of your organization’s active transportation assets?**

**Indicate** the percent distribution of your assets by using the condition rating scale. **This includes items to be decommissioned.** Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>a. Bikeways or Cycleways</b>						
<b>a1. High-comfort bikeways</b>	<input type="text"/> % <small>C11F0101</small>	<input type="text"/> % <small>C11F0201</small>	<input type="text"/> % <small>C11F0301</small>	<input type="text"/> % <small>C11F0401</small>	<input type="text"/> % <small>C11F0501</small>	<input type="text"/> % <small>C11F0601</small>
<b>a2. Medium-comfort bikeways</b>	<input type="text"/> % <small>C11F0102</small>	<input type="text"/> % <small>C11F0202</small>	<input type="text"/> % <small>C11F0302</small>	<input type="text"/> % <small>C11F0402</small>	<input type="text"/> % <small>C11F0502</small>	<input type="text"/> % <small>C11F0602</small>
<b>a3. Low-comfort bikeways</b>	<input type="text"/> % <small>C11F0103</small>	<input type="text"/> % <small>C11F0203</small>	<input type="text"/> % <small>C11F0303</small>	<input type="text"/> % <small>C11F0403</small>	<input type="text"/> % <small>C11F0503</small>	<input type="text"/> % <small>C11F0603</small>
<b>b. Paved pathways Excludes bikeways.</b>	<input type="text"/> % <small>C11F0104</small>	<input type="text"/> % <small>C11F0204</small>	<input type="text"/> % <small>C11F0304</small>	<input type="text"/> % <small>C11F0404</small>	<input type="text"/> % <small>C11F0504</small>	<input type="text"/> % <small>C11F0604</small>
<b>c. Non-paved trails</b>	<input type="text"/> % <small>C11F0105</small>	<input type="text"/> % <small>C11F0205</small>	<input type="text"/> % <small>C11F0305</small>	<input type="text"/> % <small>C11F0405</small>	<input type="text"/> % <small>C11F0505</small>	<input type="text"/> % <small>C11F0605</small>
<b>d. Sidewalks</b>	<input type="text"/> % <small>C5F06106</small>	<input type="text"/> % <small>C5F06206</small>	<input type="text"/> % <small>C5F06306</small>	<input type="text"/> % <small>C5F06406</small>	<input type="text"/> % <small>C5F06506</small>	<input type="text"/> % <small>C5F06606</small>
<b>e. Footbridges</b>	<input type="text"/> % <small>C1F05105</small>	<input type="text"/> % <small>C1F05205</small>	<input type="text"/> % <small>C1F05305</small>	<input type="text"/> % <small>C1F05405</small>	<input type="text"/> % <small>C1F05505</small>	<input type="text"/> % <small>C1F05605</small>
<b>f. Pedestrian tunnels</b>	<input type="text"/> % <small>C11F0106</small>	<input type="text"/> % <small>C11F0206</small>	<input type="text"/> % <small>C11F0306</small>	<input type="text"/> % <small>C11F0406</small>	<input type="text"/> % <small>C11F0506</small>	<input type="text"/> % <small>C11F0606</small>

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**4.** As of **December 31, 2022**, what percentage of your active transportation assets are accessible (**for example**, sloped curbs at intersections)?

Provide your best estimate when exact figures are not available.  
Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Percentage
<b>a. Bikeways or Cycleways</b>	
<b>a1.</b> High-comfort bikeways	<input type="text"/> % <small>C11H0101</small>
<b>a2.</b> Medium-comfort bikeways	<input type="text"/> % <small>C11H0102</small>
<b>a3.</b> Low-comfort bikeways	<input type="text"/> % <small>C11H0103</small>
<b>b.</b> Paved pathways <b>Excludes</b> bikeways.	<input type="text"/> % <small>C11H0104</small>
<b>c.</b> Non-paved trails	<input type="text"/> % <small>C11H0105</small>
<b>d.</b> Sidewalks	<input type="text"/> % <small>C11H0106</small>
<b>e.</b> Footbridges	<input type="text"/> % <small>C11H0107</small>
<b>f.</b> Pedestrian tunnels	<input type="text"/> % <small>C11H0108</small>

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**5.** What is the **2022** estimated replacement value, required renewal budget, and actual renewal budget of active transportation assets owned by your organization?

Provide your best estimate when exact figures are not available.  
 Report "0" when the organization does not own or lease the asset.  
 If a breakdown is not available, please provide the total.  
 Please report all amounts in **thousands** of Canadian dollars.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>a. Bikeways or Cycleways</b>			
a1. High-comfort bikeways	\$ <input type="text"/> ,000 <small>C11H0201</small>	\$ <input type="text"/> ,000 <small>C11H0301</small>	\$ <input type="text"/> ,000 <small>C11H0401</small>
a2. Medium-comfort bikeways	\$ <input type="text"/> ,000 <small>C11H0202</small>	\$ <input type="text"/> ,000 <small>C11H0302</small>	\$ <input type="text"/> ,000 <small>C11H0402</small>
a3. Low-comfort bikeways	\$ <input type="text"/> ,000 <small>C11H0203</small>	\$ <input type="text"/> ,000 <small>C11H0303</small>	\$ <input type="text"/> ,000 <small>C11H0403</small>
<b>Total bikeways or cycleways</b>	\$ <input type="text"/> ,000 <small>C11H0204</small>	\$ <input type="text"/> ,000 <small>C11H0304</small>	\$ <input type="text"/> ,000 <small>C11H0404</small>
<b>b. Paved pathways Excludes bikeways.</b>	\$ <input type="text"/> ,000 <small>C11H0205</small>	\$ <input type="text"/> ,000 <small>C11H0305</small>	\$ <input type="text"/> ,000 <small>C11H0405</small>
<b>c. Non-paved trails</b>	\$ <input type="text"/> ,000 <small>C11H0206</small>	\$ <input type="text"/> ,000 <small>C11H0306</small>	\$ <input type="text"/> ,000 <small>C11H0406</small>
<b>d. Sidewalks</b>	\$ <input type="text"/> ,000 <small>C5H13106</small>	\$ <input type="text"/> ,000 <small>C5H13206</small>	\$ <input type="text"/> ,000 <small>C5H13306</small>
<b>e. Footbridges</b>	\$ <input type="text"/> ,000 <small>C1H16105</small>	\$ <input type="text"/> ,000 <small>C1H16205</small>	\$ <input type="text"/> ,000 <small>C1H16305</small>
<b>f. Pedestrian tunnels</b>	\$ <input type="text"/> ,000 <small>C11H0207</small>	\$ <input type="text"/> ,000 <small>C11H0307</small>	\$ <input type="text"/> ,000 <small>C11H0407</small>
<b>Total all other pathways</b>	\$ <input type="text"/> ,000 <small>C11H0208</small>	\$ <input type="text"/> ,000 <small>C11H0308</small>	\$ <input type="text"/> ,000 <small>C11H0408</small>

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6. In 2022, did your organization acquire or bring into service any new active transportation assets for the following categories? For the new assets acquired, please provide the expected useful life.

Indicate the useful life (in years) for new assets acquired or brought into service during the year.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

### a. Bikeways or Cycleways

#### a1. High-comfort bikeways

C11H2202

1  **Yes** - new high-comfort bikeways assets acquired in 2022

Expected high-comfort bikeways useful life

C11H2102

2  **No** - no new high-comfort bikeways assets acquired in 2022

#### a2. Medium-comfort bikeways

C11H2203

1  **Yes** - new medium-comfort bikeways assets acquired in 2022

Expected medium-comfort bikeways useful life

C11H2103

2  **No** - no new medium-comfort bikeways assets acquired in 2022

#### a3. Low-comfort bikeways

C11H2204

1  **Yes** - new low-comfort bikeways assets acquired in 2022

Expected low-comfort bikeways useful life

C11H2104

2  **No** - no new low-comfort bikeways assets acquired in 2022

### b. Paved pathways

Excludes bikeways.

C11H2205

1  **Yes** - new paved pathways assets acquired in 2022

Expected paved pathways useful life

C11H2105

2  **No** - no new paved pathways assets acquired in 2022

**c. Non-paved trails**

C11H2206

1  **Yes** - new non-paved trails assets acquired in **2022**

↳ Expected non-paved trails useful life

C11H2106

2  **No** - no new non-paved trails assets acquired in **2022**

**d. Sidewalks**

C5H15206

1  **Yes** - new sidewalks assets acquired in **2022**

↳ Expected sidewalks useful life

C5H15106

2  **No** - no new sidewalks assets acquired in **2022**

**e. Footbridges**

C1H18205

1  **Yes** - new footbridges assets acquired in **2022**

↳ Expected footbridges useful life

C1H18105

2  **No** - no new footbridges assets acquired in **2022**

**f. Pedestrian tunnels**

C11H2207

1  **Yes** - new pedestrian tunnels assets acquired in **2022**

↳ Expected pedestrian tunnels useful life

C11H2107

2  **No** - no new pedestrian tunnels assets acquired in **2022**

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7. Does your organization have geographical information available about active transportation systems?

C11H3100

1  Yes



**> Please provide the following information**

**Type of information**

Select all that apply.

1  Trails (non-paved)

C11H3101

1  Paved pathways

C11H3102

1  Sidewalks

C11H3103

1  Cycling paths

C11H3104

1  Other

C11H3105



Specify other type of information

C11H3106

**Data format**

Select all that apply.

1  Shapefile

C11H3107

1  KML or KMZ

C11H3108

1  Static map image (pdf or jpg)

C11H3109

1  Excel or CSV

C11H3110

1  JSON

C11H3111

1  GEOJSON

C11H3112

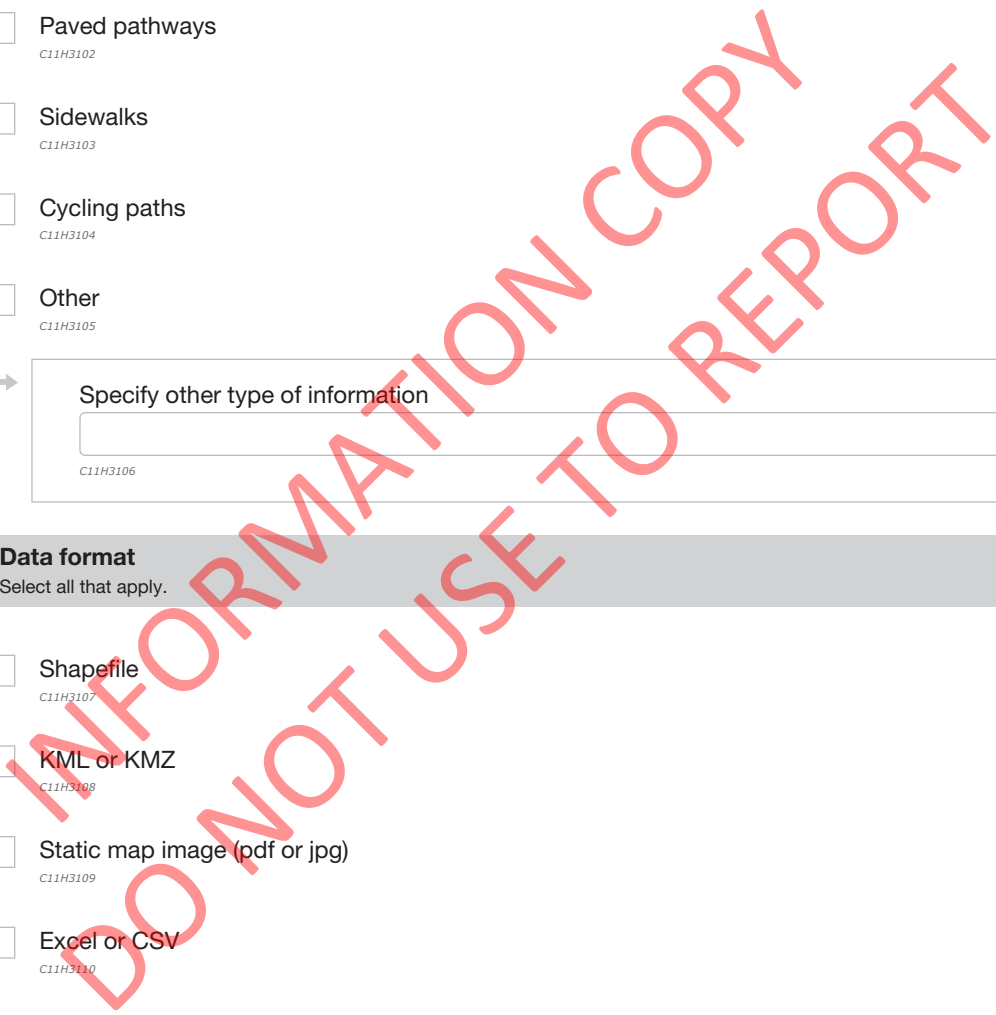
1  Other

C11H3113



Specify other data format

C11H3114



### Frequency of the data updates

Select all that apply.

<sup>1</sup>  Weekly  
C11H3115

<sup>1</sup>  Monthly  
C11H3116

<sup>1</sup>  Quarterly  
C11H3117

<sup>1</sup>  Annually  
C11H3118

<sup>1</sup>  Other  
C11H3119



Specify other frequency

C11H3120

Date of the last update

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Y	Y	Y	Y	M	M	D	D

C11H3121

### Public data sharing platform or tool or service

Select all that apply.

<sup>1</sup>  Web services (WMS, WFS)  
C11H3122

<sup>1</sup>  Web application  
C11H3123

<sup>1</sup>  Data portal  
C11H3124

<sup>1</sup>  Other  
C11H3125



Specify other sharing tool

C11H3126

Please provide URL or Links (if available)

C11H3127

<sup>2</sup>  No

8. Does your organization have a documented asset management plan for active transportation?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12311

1  Yes



**> At what frequency is the asset management plan for active transportation updated?**  
Indicate the frequency in years, if applicable.

Number of years

COG11311

2  No



**> When does your organization plan to have a documented asset management plan in place for active transportation?**

Indicate in how many years a plan will be implemented, if applicable.

Number of years

COG13311

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9. What type of asset management information system does your organization use for active transportation?

Select only one answer.

Type of system

COG14311

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

10. In 2022, what was the maturity level of your organization's asset management planning for active transportation?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01011

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

**11.** Do climate change adaptation or mitigation factor into your organization's decision-making process for active transportation?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Climate change adaptation and mitigation

COG00311

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

**12.** Does accessibility and universal design factor into your organization's decision-making process for active transportation?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Accessibility and universal design

COG00211

- 1  Accessibility
- 2  Universal design
- 3  Both accessibility and universal design
- 4  Not a factor
- 5  Do not know

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## Definitions

### Question 1

**High-comfort bikeways** these are low-stress paved cycling facilities are comfortable for most people. Route types include cycle tracks alongside busy roads, local street bikeways and off-road bike paths.

**Medium-comfort bikeways** these are low-to-medium stress paved cycling facilities are considered comfortable by some people. The off-road infrastructure multi-use path fits within this category. Multi-use paths are shared with pedestrians and other active modes and can be located along a road or in an independent corridor.

**Low-comfort bikeways** these are paved cycling facilities are high stress and comfortable for few people. The infrastructure type within this category is a painted bike lane, where people are cycling in a painted lane along busy roadways. This also includes shared lanes (where cyclists share the roadway with vehicles).

### Paved pathways

Maintained, paved recreational and mixed used active transportation corridors which are independent of automobile corridors (excludes bikeway).

**Non-paved trails** maintained, unpaved recreational and mixed used active transportation corridors which are independent of automobile corridors.

### Sidewalks

A distinct paved corridor adjacent to a roadway that is reserved exclusively for pedestrians.

### Footbridges

Grade separated connections to cross an obstacle (such as a roadway, or river etc.) dedicated exclusively to active transportation (excludes pedestrian tunnels).

### Pedestrian tunnels

Grade separated indoor corridors that are dedicated exclusively to pedestrian use. Includes enclosed elevated pathways like "skybridges" but excludes mixed-use active transportation bridges, overpasses and underpasses.

### Question 2

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory at December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

### Question 3

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident; minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

#### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

#### Very good

Sound physical condition. No short-term failure risk and no work required.

## Definitions (continued)

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life:

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.

### Question 4

#### Accessibility

Taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

### Question 5

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, including demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

### Question 6

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

**Include** assets that were newly built, acquired or donated during the reference year.

**Exclude** the purchase or acquisition of used assets (existing assets acquired from another organization), ownership transfers, and asset betterments and renewals.

### Question 8

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

## Definitions (continued)

### Question 10

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

#### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

#### Optimizing (Level 4)

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

#### Excellent (Level 5)

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### Question 11

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

#### Climate change mitigation

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

### Question 12

#### Accessibility

This means taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

#### Universal design

This means supporting the usability of products and the built environment for the greatest number of people, **including** a wide spectrum of age groups and abilities. Universal design applies to the design of programs and services, technologies, transportation, instruction, and other products and environments.



# Canada's Core Public Infrastructure Survey 2022

## Natural Infrastructure

CONFIDENTIAL once completed.

Si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant : 1-833-977-8287

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.**

### Survey purpose

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

### Confidentiality

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 the response 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, which you will return to Statistics Canada with your completed questionnaire. In this letter, please specify the organizations with which you do not want Statistics Canada to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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.

### Approved disclosure

**Section 17** of the federal *Statistics Act* allows for the disclosure of certain information relating to an individual, business or organization. Statistics Canada will only disclose information where there is a demonstrated statistical need and for the public good, and when it will not harm individuals, organizations or businesses if data were disclosed. For Canada's Core Public Infrastructure Survey, the Chief Statistician has authorized the release of data relating to individual government entities and public utilities. These include data on assets at the aggregate and individual level. Additionally, the names of provincial, regional and municipal government organizations will be released, as well as the variables used in sampling and estimation.

### Record linkages

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

### Additional information

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*.

### Who should complete this questionnaire?

The response to the Canada's Core Public Infrastructure Survey must be coordinated by the organization's asset manager, who will ensure that each asset-specific questionnaire is completed by the manager of the asset in question.

**Please return the questionnaire within 30 days.**

If you are unable to complete within 30 days **OR** if you need help, call us at **1-833-977-8287**.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)



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Canada Canada

Canada

## Reporting Instructions

- Report dollar amounts in **thousands of Canadian dollars**.
- Declare distances or lengths in kilometers.
- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter "0" if there is no value to report.

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## Natural Infrastructure

**1. What was your organization's final inventory of natural infrastructure assets as of December 31, 2022 ?**

Provide your best estimate when exact figures are not available.  
Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Count	Area (square metres)	Length (metres)
<b>&gt; Water-related, non-linear assets</b>			
a. Naturalized stormwater ponds	<input type="text"/> <small>C10B0101</small>	<input type="text"/> <small>C10B0201</small>	
b. Wetlands and restored flood plains	<input type="text"/> <small>C10B0102</small>	<input type="text"/> <small>C10B0202</small>	
c. Rain gardens	<input type="text"/> <small>C10B0103</small>	<input type="text"/> <small>C10B0203</small>	
d. Permeable land cover	<input type="text"/> <small>C10B0104</small>	<input type="text"/> <small>C10B0204</small>	
e. Infiltration basins	<input type="text"/> <small>C10B0105</small>	<input type="text"/> <small>C10B0205</small>	
f. Floating treatment wetlands/islands	<input type="text"/> <small>C10B0106</small>	<input type="text"/> <small>C10B0206</small>	
<b>&gt; Water-related, linear assets</b>			
g. Bioswales	<input type="text"/> <small>C10B0108</small>		<input type="text"/> <small>C10B0208</small>
h. Living dykes	<input type="text"/> <small>C10B0110</small>		<input type="text"/> <small>C10B0210</small>
i. Vegetated filter strip	<input type="text"/> <small>C10B0111</small>		<input type="text"/> <small>C10B0211</small>
j. Riparian buffers	<input type="text"/> <small>C10B0112</small>		<input type="text"/> <small>C10B0212</small>
k. Infiltration trenches	<input type="text"/> <small>C10B0113</small>		<input type="text"/> <small>C10B0213</small>

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	Count	Area (square metres)	Length (metres)
<b>&gt; Non-water related, non-linear assets</b>			
<b>l.</b> Urban forests	<input type="text"/> <small>C10B0114</small>	<input type="text"/> <small>C10B0214</small>	
<b>m.</b> Green roofs	<input type="text"/> <small>C10B0115</small>	<input type="text"/> <small>C10B0215</small>	
<b>n.</b> Community gardens	<input type="text"/> <small>C10B0117</small>	<input type="text"/> <small>C10B0217</small>	
<b>o.</b> Grasslands	<input type="text"/> <small>C10B0118</small>	<input type="text"/> <small>C10B0218</small>	
<b>p.</b> Living walls or green walls	<input type="text"/> <small>C10B0119</small>	<input type="text"/> <small>C10B0219</small>	
<b>q.</b> Ecological corridors	<input type="text"/> <small>C10B0120</small>	<input type="text"/> <small>C10B0220</small>	
<b>&gt; All other linear and non-linear features</b>			
<b>r.</b> Other linear ↳ Please describe other linear <input type="text"/> <small>C10B0123</small>	<input type="text"/> <small>C10B0121</small>		<input type="text"/> <small>C10B0221</small>
<b>s.</b> Other non-linear ↳ Please describe other non-linear <input type="text"/> <small>C10B0124</small>	<input type="text"/> <small>C10B0122</small>	<input type="text"/> <small>C10B0222</small>	

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**2.** For the following, what percentage was used for the hybrid infrastructure approaches?

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

		Hybrid percentage
<b>&gt; Water-related, non-linear assets</b>		
<b>a.</b>	Naturalized stormwater ponds	<input type="text"/> % <small>C10B0301</small>
<b>b.</b>	Wetlands and restored flood plains	<input type="text"/> % <small>C10B0302</small>
<b>c.</b>	Rain gardens	<input type="text"/> % <small>C10B0303</small>
<b>d.</b>	Permeable land cover	<input type="text"/> % <small>C10B0304</small>
<b>e.</b>	Infiltration basins	<input type="text"/> % <small>C10B0305</small>
<b>f.</b>	Floating treatment wetlands or islands	<input type="text"/> % <small>C10B0306</small>
<b>&gt; Water-related, linear assets</b>		
<b>g.</b>	Bioswales	<input type="text"/> % <small>C10B0308</small>
<b>h.</b>	Living dykes	<input type="text"/> % <small>C10B0310</small>
<b>i.</b>	Vegetated filter strip	<input type="text"/> % <small>C10B0311</small>
<b>j.</b>	Riparian buffers	<input type="text"/> % <small>C10B0312</small>
<b>k.</b>	Infiltration trenches	<input type="text"/> % <small>C10B0313</small>

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Hybrid percentage

> Non-water related, non-linear assets

**l.** Urban forests

 %  
C10B0314

**m.** Green roofs

 %  
C10B0315

**n.** Community gardens

 %  
C10B0317

**o.** Grasslands

 %  
C10B0318

**p.** Living walls or green walls

 %  
C10B0319

**q.** Ecological corridors

 %  
C10B0320

> All other linear and non-linear features

**r.** Other linear

 %  
C10B0321

**s.** Other non-linear

 %  
C10B0322

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**3.** Provide the distribution of your organization’s natural infrastructure assets inventory count based on the year of construction completion below.

Provide your best estimate when exact figures are not available.  
Report “0” when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>&gt; Water-related, non-linear assets</b>						
<b>a.</b> Naturalized stormwater ponds	<input type="text"/> <small>C10C0101</small>	<input type="text"/> <small>C10C0201</small>	<input type="text"/> <small>C10C0301</small>	<input type="text"/> <small>C10C0401</small>	<input type="text"/> <small>C10C0501</small>	<input type="text"/> <small>C10C0601</small>
<b>b.</b> Wetlands and restored flood plains	<input type="text"/> <small>C10C0102</small>	<input type="text"/> <small>C10C0202</small>	<input type="text"/> <small>C10C0302</small>	<input type="text"/> <small>C10C0402</small>	<input type="text"/> <small>C10C0502</small>	<input type="text"/> <small>C10C0602</small>
<b>c.</b> Rain gardens	<input type="text"/> <small>C10C0103</small>	<input type="text"/> <small>C10C0203</small>	<input type="text"/> <small>C10C0303</small>	<input type="text"/> <small>C10C0403</small>	<input type="text"/> <small>C10C0503</small>	<input type="text"/> <small>C10C0603</small>
<b>d.</b> Permeable land cover	<input type="text"/> <small>C10C0104</small>	<input type="text"/> <small>C10C0204</small>	<input type="text"/> <small>C10C0304</small>	<input type="text"/> <small>C10C0404</small>	<input type="text"/> <small>C10C0504</small>	<input type="text"/> <small>C10C0604</small>
<b>e.</b> Infiltration basins	<input type="text"/> <small>C10C0105</small>	<input type="text"/> <small>C10C0205</small>	<input type="text"/> <small>C10C0305</small>	<input type="text"/> <small>C10C0405</small>	<input type="text"/> <small>C10C0505</small>	<input type="text"/> <small>C10C0605</small>
<b>f.</b> Floating treatment wetlands or islands	<input type="text"/> <small>C10C0106</small>	<input type="text"/> <small>C10C0206</small>	<input type="text"/> <small>C10C0306</small>	<input type="text"/> <small>C10C0406</small>	<input type="text"/> <small>C10C0506</small>	<input type="text"/> <small>C10C0606</small>
<b>&gt; Water-related, linear assets</b>						
<b>g.</b> Bioswales	<input type="text"/> <small>C10C0108</small>	<input type="text"/> <small>C10C0208</small>	<input type="text"/> <small>C10C0308</small>	<input type="text"/> <small>C10C0408</small>	<input type="text"/> <small>C10C0508</small>	<input type="text"/> <small>C10C0608</small>
<b>h.</b> Living dykes	<input type="text"/> <small>C10C0110</small>	<input type="text"/> <small>C10C0210</small>	<input type="text"/> <small>C10C0310</small>	<input type="text"/> <small>C10C0410</small>	<input type="text"/> <small>C10C0510</small>	<input type="text"/> <small>C10C0610</small>
<b>i.</b> Vegetated filter strip	<input type="text"/> <small>C10C0111</small>	<input type="text"/> <small>C10C0211</small>	<input type="text"/> <small>C10C0311</small>	<input type="text"/> <small>C10C0411</small>	<input type="text"/> <small>C10C0511</small>	<input type="text"/> <small>C10C0611</small>
<b>j.</b> Riparian buffers	<input type="text"/> <small>C10C0112</small>	<input type="text"/> <small>C10C0212</small>	<input type="text"/> <small>C10C0312</small>	<input type="text"/> <small>C10C0412</small>	<input type="text"/> <small>C10C0512</small>	<input type="text"/> <small>C10C0612</small>
<b>k.</b> Infiltration trenches	<input type="text"/> <small>C10C0113</small>	<input type="text"/> <small>C10C0213</small>	<input type="text"/> <small>C10C0313</small>	<input type="text"/> <small>C10C0413</small>	<input type="text"/> <small>C10C0513</small>	<input type="text"/> <small>C10C0613</small>

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2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
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**> Non-water related, non-linear assets**

<b>l.</b> Urban forests	<input type="text"/> <small>C10C0114</small>	<input type="text"/> <small>C10C0214</small>	<input type="text"/> <small>C10C0314</small>	<input type="text"/> <small>C10C0414</small>	<input type="text"/> <small>C10C0514</small>	<input type="text"/> <small>C10C0614</small>
<b>m.</b> Green roofs	<input type="text"/> <small>C10C0115</small>	<input type="text"/> <small>C10C0215</small>	<input type="text"/> <small>C10C0315</small>	<input type="text"/> <small>C10C0415</small>	<input type="text"/> <small>C10C0515</small>	<input type="text"/> <small>C10C0615</small>
<b>n.</b> Community gardens	<input type="text"/> <small>C10C0117</small>	<input type="text"/> <small>C10C0217</small>	<input type="text"/> <small>C10C0317</small>	<input type="text"/> <small>C10C0417</small>	<input type="text"/> <small>C10C0517</small>	<input type="text"/> <small>C10C0617</small>
<b>o.</b> Grasslands	<input type="text"/> <small>C10C0118</small>	<input type="text"/> <small>C10C0218</small>	<input type="text"/> <small>C10C0318</small>	<input type="text"/> <small>C10C0418</small>	<input type="text"/> <small>C10C0518</small>	<input type="text"/> <small>C10C0618</small>
<b>p.</b> Living walls or green walls	<input type="text"/> <small>C10C0119</small>	<input type="text"/> <small>C10C0219</small>	<input type="text"/> <small>C10C0319</small>	<input type="text"/> <small>C10C0419</small>	<input type="text"/> <small>C10C0519</small>	<input type="text"/> <small>C10C0619</small>
<b>q.</b> Ecological corridors	<input type="text"/> <small>C10C0120</small>	<input type="text"/> <small>C10C0220</small>	<input type="text"/> <small>C10C0320</small>	<input type="text"/> <small>C10C0420</small>	<input type="text"/> <small>C10C0520</small>	<input type="text"/> <small>C10C0620</small>

**> All other linear and non-linear features**

<b>r.</b> Other linear	<input type="text"/> <small>C10C0121</small>	<input type="text"/> <small>C10C0221</small>	<input type="text"/> <small>C10C0321</small>	<input type="text"/> <small>C10C0421</small>	<input type="text"/> <small>C10C0521</small>	<input type="text"/> <small>C10C0621</small>
<b>s.</b> Other non-linear	<input type="text"/> <small>C10C0122</small>	<input type="text"/> <small>C10C0222</small>	<input type="text"/> <small>C10C0322</small>	<input type="text"/> <small>C10C0422</small>	<input type="text"/> <small>C10C0522</small>	<input type="text"/> <small>C10C0622</small>

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4. In 2022, what was the overall physical condition of your organization's natural infrastructure assets?

Indicate the percent distribution of your assets by using the condition rating scale. This includes items to be decommissioned. Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>&gt; Water-related, non-linear assets</b>						
a. Naturalized stormwater ponds	<input type="text"/> % <small>C10F0101</small>	<input type="text"/> % <small>C10F0201</small>	<input type="text"/> % <small>C10F0301</small>	<input type="text"/> % <small>C10F0401</small>	<input type="text"/> % <small>C10F0501</small>	<input type="text"/> % <small>C10F0601</small>
b. Wetlands and restored flood plains	<input type="text"/> % <small>C10F0102</small>	<input type="text"/> % <small>C10F0202</small>	<input type="text"/> % <small>C10F0302</small>	<input type="text"/> % <small>C10F0402</small>	<input type="text"/> % <small>C10F0502</small>	<input type="text"/> % <small>C10F0602</small>
c. Rain gardens	<input type="text"/> % <small>C10F0103</small>	<input type="text"/> % <small>C10F0203</small>	<input type="text"/> % <small>C10F0303</small>	<input type="text"/> % <small>C10F0403</small>	<input type="text"/> % <small>C10F0503</small>	<input type="text"/> % <small>C10F0603</small>
d. Permeable land cover	<input type="text"/> % <small>C10F0104</small>	<input type="text"/> % <small>C10F0204</small>	<input type="text"/> % <small>C10F0304</small>	<input type="text"/> % <small>C10F0404</small>	<input type="text"/> % <small>C10F0504</small>	<input type="text"/> % <small>C10F0604</small>
e. Infiltration basins	<input type="text"/> % <small>C10F0105</small>	<input type="text"/> % <small>C10F0205</small>	<input type="text"/> % <small>C10F0305</small>	<input type="text"/> % <small>C10F0405</small>	<input type="text"/> % <small>C10F0505</small>	<input type="text"/> % <small>C10F0605</small>
f. Floating treatment wetlands or islands	<input type="text"/> % <small>C10F0106</small>	<input type="text"/> % <small>C10F0206</small>	<input type="text"/> % <small>C10F0306</small>	<input type="text"/> % <small>C10F0406</small>	<input type="text"/> % <small>C10F0506</small>	<input type="text"/> % <small>C10F0606</small>
<b>&gt; Water-related, linear assets</b>						
g. Bioswales	<input type="text"/> % <small>C10F0108</small>	<input type="text"/> % <small>C10F0208</small>	<input type="text"/> % <small>C10F0308</small>	<input type="text"/> % <small>C10F0408</small>	<input type="text"/> % <small>C10F0508</small>	<input type="text"/> % <small>C10F0608</small>
h. Living dykes	<input type="text"/> % <small>C10F0110</small>	<input type="text"/> % <small>C10F0210</small>	<input type="text"/> % <small>C10F0310</small>	<input type="text"/> % <small>C10F0410</small>	<input type="text"/> % <small>C10F0510</small>	<input type="text"/> % <small>C10F0610</small>
i. Vegetated filter strip	<input type="text"/> % <small>C10F0111</small>	<input type="text"/> % <small>C10F0211</small>	<input type="text"/> % <small>C10F0311</small>	<input type="text"/> % <small>C10F0411</small>	<input type="text"/> % <small>C10F0511</small>	<input type="text"/> % <small>C10F0611</small>
j. Riparian buffers	<input type="text"/> % <small>C10F0112</small>	<input type="text"/> % <small>C10F0212</small>	<input type="text"/> % <small>C10F0312</small>	<input type="text"/> % <small>C10F0412</small>	<input type="text"/> % <small>C10F0512</small>	<input type="text"/> % <small>C10F0612</small>
k. Infiltration trenches	<input type="text"/> % <small>C10F0113</small>	<input type="text"/> % <small>C10F0213</small>	<input type="text"/> % <small>C10F0313</small>	<input type="text"/> % <small>C10F0413</small>	<input type="text"/> % <small>C10F0513</small>	<input type="text"/> % <small>C10F0613</small>

DO NOT USE TO REPORT

	Very poor	Poor	Fair	Good	Very good	Do not know
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**> Non-water related, non-linear assets**

<b>l.</b> Urban forests	<input type="text"/> % <small>C10F0114</small>	<input type="text"/> % <small>C10F0214</small>	<input type="text"/> % <small>C10F0314</small>	<input type="text"/> % <small>C10F0414</small>	<input type="text"/> % <small>C10F0514</small>	<input type="text"/> % <small>C10F0614</small>
<b>m.</b> Green roofs	<input type="text"/> % <small>C10F0115</small>	<input type="text"/> % <small>C10F0215</small>	<input type="text"/> % <small>C10F0315</small>	<input type="text"/> % <small>C10F0415</small>	<input type="text"/> % <small>C10F0515</small>	<input type="text"/> % <small>C10F0615</small>
<b>n.</b> Community gardens	<input type="text"/> % <small>C10F0117</small>	<input type="text"/> % <small>C10F0217</small>	<input type="text"/> % <small>C10F0317</small>	<input type="text"/> % <small>C10F0417</small>	<input type="text"/> % <small>C10F0517</small>	<input type="text"/> % <small>C10F0617</small>
<b>o.</b> Grasslands	<input type="text"/> % <small>C10F0118</small>	<input type="text"/> % <small>C10F0218</small>	<input type="text"/> % <small>C10F0318</small>	<input type="text"/> % <small>C10F0418</small>	<input type="text"/> % <small>C10F0518</small>	<input type="text"/> % <small>C10F0618</small>
<b>p.</b> Living walls or green walls	<input type="text"/> % <small>C10F0119</small>	<input type="text"/> % <small>C10F0219</small>	<input type="text"/> % <small>C10F0319</small>	<input type="text"/> % <small>C10F0419</small>	<input type="text"/> % <small>C10F0519</small>	<input type="text"/> % <small>C10F0619</small>
<b>q.</b> Ecological corridors	<input type="text"/> % <small>C10F0120</small>	<input type="text"/> % <small>C10F0220</small>	<input type="text"/> % <small>C10F0320</small>	<input type="text"/> % <small>C10F0420</small>	<input type="text"/> % <small>C10F0520</small>	<input type="text"/> % <small>C10F0620</small>
<b>&gt; All other linear and non-linear features</b>						
<b>r.</b> Other linear	<input type="text"/> % <small>C10F0121</small>	<input type="text"/> % <small>C10F0221</small>	<input type="text"/> % <small>C10F0321</small>	<input type="text"/> % <small>C10F0421</small>	<input type="text"/> % <small>C10F0521</small>	<input type="text"/> % <small>C10F0621</small>
<b>s.</b> Other non-linear	<input type="text"/> % <small>C10F0122</small>	<input type="text"/> % <small>C10F0222</small>	<input type="text"/> % <small>C10F0322</small>	<input type="text"/> % <small>C10F0422</small>	<input type="text"/> % <small>C10F0522</small>	<input type="text"/> % <small>C10F0622</small>

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5. As of **December 31, 2022**, which of the following community services does your organization use natural infrastructure to address?  
Select all that apply.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information

- 1  Climate change resilience  
C10F0701
- 1  Increased access to nature  
C10F0702
- 1  Improved environmental quality  
C10F0703
- 1  Enhanced biodiversity  
C10F0704
- 1  Climate change mitigation  
C10F0705
- 1  Other  
C10F0706

↳ Specify the other community service

  
C10F0707

6. As of **December 31, 2022**, for which of the following climate hazards is your organization using natural infrastructure to address?  
Select all that apply.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

- 1  Flooding  
C10F0708
- 1  Coastal erosion  
C10F0709
- 1  Extreme rainfall or precipitation  
C10F0710
- 1  Extreme heat  
C10F0711
- 1  Wildfire  
C10F0712
- 1  Other  
C10F0713

↳ Specify the other climate hazards

  
C10F0714

**7. What is the 2022 estimated replacement value, required renewal budget, and actual renewal budget of natural infrastructure assets owned by your organization?**

Provide your best estimate when exact figures are not available.  
 Report "0" when the organization does not own or lease the asset  
 If a breakdown is not available, please provide the total.  
 Please report all amounts in **thousands of Canadian dollars**.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Water-related, non-linear assets</b>			
a. Naturalized stormwater ponds	\$ <input type="text"/> ,000 <small>C10H0101</small>	\$ <input type="text"/> ,000 <small>C10H0201</small>	\$ <input type="text"/> ,000 <small>C10H0301</small>
b. Wetlands and restored flood plains	\$ <input type="text"/> ,000 <small>C10H0102</small>	\$ <input type="text"/> ,000 <small>C10H0202</small>	\$ <input type="text"/> ,000 <small>C10H0302</small>
c. Rain gardens	\$ <input type="text"/> ,000 <small>C10H0103</small>	\$ <input type="text"/> ,000 <small>C10H0203</small>	\$ <input type="text"/> ,000 <small>C10H0303</small>
d. Permeable land cover	\$ <input type="text"/> ,000 <small>C10H0104</small>	\$ <input type="text"/> ,000 <small>C10H0204</small>	\$ <input type="text"/> ,000 <small>C10H0304</small>
e. Infiltration basins	\$ <input type="text"/> ,000 <small>C10H0105</small>	\$ <input type="text"/> ,000 <small>C10H0205</small>	\$ <input type="text"/> ,000 <small>C10H0305</small>
f. Floating treatment wetlands or islands	\$ <input type="text"/> ,000 <small>C10H0106</small>	\$ <input type="text"/> ,000 <small>C10H0206</small>	\$ <input type="text"/> ,000 <small>C10H0306</small>
<b>Total water-related, non-linear assets</b>	\$ <input type="text"/> ,000 <small>C10H0108</small>	\$ <input type="text"/> ,000 <small>C10H0208</small>	\$ <input type="text"/> ,000 <small>C10H0308</small>
<b>&gt; Water-related, linear assets</b>			
g. Bioswales	\$ <input type="text"/> ,000 <small>C10H0109</small>	\$ <input type="text"/> ,000 <small>C10H0209</small>	\$ <input type="text"/> ,000 <small>C10H0309</small>
h. Living dykes	\$ <input type="text"/> ,000 <small>C10H0111</small>	\$ <input type="text"/> ,000 <small>C10H0211</small>	\$ <input type="text"/> ,000 <small>C10H0311</small>
i. Vegetated filter strip	\$ <input type="text"/> ,000 <small>C10H0112</small>	\$ <input type="text"/> ,000 <small>C10H0212</small>	\$ <input type="text"/> ,000 <small>C10H0312</small>

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	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
j. Riparian buffers	\$ <input type="text"/> ,000 <small>C10H0113</small>	\$ <input type="text"/> ,000 <small>C10H0213</small>	\$ <input type="text"/> ,000 <small>C10H0313</small>
k. Infiltration trenches	\$ <input type="text"/> ,000 <small>C10H0114</small>	\$ <input type="text"/> ,000 <small>C10H0214</small>	\$ <input type="text"/> ,000 <small>C10H0314</small>
<b>Total water-related, linear assets</b>	\$ <input type="text"/> ,000 <small>C10H0115</small>	\$ <input type="text"/> ,000 <small>C10H0215</small>	\$ <input type="text"/> ,000 <small>C10H0315</small>
<b>&gt; Non-water related, non-linear assets</b>			
l. Urban forests	\$ <input type="text"/> ,000 <small>C10H0116</small>	\$ <input type="text"/> ,000 <small>C10H0216</small>	\$ <input type="text"/> ,000 <small>C10H0316</small>
m. Green roofs	\$ <input type="text"/> ,000 <small>C10H0117</small>	\$ <input type="text"/> ,000 <small>C10H0217</small>	\$ <input type="text"/> ,000 <small>C10H0317</small>
n. Community gardens	\$ <input type="text"/> ,000 <small>C10H0119</small>	\$ <input type="text"/> ,000 <small>C10H0219</small>	\$ <input type="text"/> ,000 <small>C10H0319</small>
o. Grasslands	\$ <input type="text"/> ,000 <small>C10H0120</small>	\$ <input type="text"/> ,000 <small>C10H0220</small>	\$ <input type="text"/> ,000 <small>C10H0320</small>
p. Living walls or green walls	\$ <input type="text"/> ,000 <small>C10H0121</small>	\$ <input type="text"/> ,000 <small>C10H0221</small>	\$ <input type="text"/> ,000 <small>C10H0321</small>
q. Ecological corridors	\$ <input type="text"/> ,000 <small>C10H0122</small>	\$ <input type="text"/> ,000 <small>C10H0222</small>	\$ <input type="text"/> ,000 <small>C10H0322</small>
<b>Total non-water related, non-linear assets</b>	\$ <input type="text"/> ,000 <small>C10H0123</small>	\$ <input type="text"/> ,000 <small>C10H0223</small>	\$ <input type="text"/> ,000 <small>C11H0301</small>
<b>&gt; All other linear and non-linear features</b>			
r. Other linear	\$ <input type="text"/> ,000 <small>C10H0124</small>	\$ <input type="text"/> ,000 <small>C10H0224</small>	\$ <input type="text"/> ,000 <small>C10H0324</small>
s. Other non-linear	\$ <input type="text"/> ,000 <small>C10H0125</small>	\$ <input type="text"/> ,000 <small>C10H0225</small>	\$ <input type="text"/> ,000 <small>C10H0325</small>
<b>Total other linear and non-linear features</b>	\$ <input type="text"/> ,000 <small>C10H0126</small>	\$ <input type="text"/> ,000 <small>C10H0226</small>	\$ <input type="text"/> ,000 <small>C10H0326</small>

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8. Does your organization have a documented asset management plan for natural infrastructure assets?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12310

1  Yes



> **At what frequency is the asset management plan for natural infrastructure updated?**

**Indicate** the frequency in years, if applicable.

Number of years

COG11310

2  No



> **When does your organization plan to have a documented asset management plan in place for natural infrastructure assets?**

**Indicate** in how many years a plan will be implemented, if applicable.

Number of years

COG13310

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9. What type of asset management information system does your organization use for natural infrastructure assets?  
Select only one answer.

Type of system

COG14310

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

10. In 2022, what was the maturity level of your organization's asset management planning for natural infrastructure assets?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01010

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

**11.** Do climate change adaptation or mitigation factor into your organization's decision-making process for natural infrastructure?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Climate change adaptation and mitigation

COG00310

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

**12.** Does accessibility and universal design factor into your organization's decision-making process for natural infrastructure?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Accessibility and universal design

COG00210

- 1  Accessibility
- 2  Universal design
- 3  Both accessibility and universal design
- 4  Not a factor
- 5  Do not know



### Question 1

**Natural infrastructure** is the use of preserved, restored, or enhanced ecosystem features and materials (e.g., water, vegetation, sand and stone, wetlands, forests) to deliver targeted community services and infrastructure outcomes such as: climate resilience, environmental quality, access to nature, enhanced biodiversity, and climate change mitigation.

It may also incorporate engineered materials of grey infrastructure to enhance or support natural infrastructure and the use of ecosystem processes (e.g., green roofs, bioswales, rain gardens) in order to provide infrastructure services, or to adapt infrastructure to the impacts of climate change and climate-related mitigation (e.g., increased precipitation, storms, tides, extreme heat, permafrost degradation).

#### Non-linear water-related:

**Naturalized stormwater ponds** are constructed stormwater pond that is designed to mimic the appearance and function of a natural wetland through the incorporation of native plant species and natural design principles.

**Wetlands and restored flood plains** are submerged or permeated by water — either permanently or temporarily — and are characterized by plants adapted to saturated soil conditions. Wetlands **include** fresh and salt water marshes, wooded swamps, bogs, seasonally flooded forest, sloughs — any land area that can keep water long enough to let wetland plants and soils develop.

**Rain gardens** are small, shallow, sunken areas of plantings that collect stormwater runoff from roofs, streets, and sidewalks. Also known as bioretention cells, they are designed to mimic the natural ways water flows over and absorbs into land to reduce stormwater pollution.

**Permeable land cover**, also known as permeable pavements, infiltrate, treat, and store rainwater where it falls. They can be made of pervious concrete, porous asphalt, or permeable interlocking pavers.

**Infiltration basins** are impoundments created by excavation or creation of berms or small dams. They are typically flat-bottomed with no outlet and are designed to temporarily store runoff generated from adjacent drainage areas.

**Floating treatment wetlands or islands** are small artificial platforms that allow aquatic plants to grow in water that is typically too deep for them.

#### Linear water-related:

**Bioswales** are essentially rain gardens placed in long narrow spaces such as the space between the sidewalk and the curb.

**Living dykes** are dune-beach systems that imitate nature and respond to changing sea levels, providing lower cost solutions to managing coastal flooding.

**Vegetated filter strip (VFSs)** are areas of land with vegetative cover that are designed to accept runoff as overland sheet flow from upstream development.

**Riparian buffers** are the natural vegetation from the edge of the stream bank out through the riparian zone. The vegetative zone serves as a buffer to pollutants entering a stream from runoff, controls erosion, and provides habitat and nutrient input into the stream.

**Infiltration trenches** are shallow (2 to 10 feet deep) excavated ditches with relatively permeable soils that have been backfilled with stone to form an underground reservoir.

#### Non-water related, non-linear:

**Urban forests** are all the trees, forests, associated vegetation growing in or very near the cities, towns, and communities.

**Green roofs** are contained areas of vegetation — such as trees, shrubs, crops or grasses — planted on top of a human-made structure.

**Community gardens** are sites operated by community members and a community organization where municipally owned lands are used for the growing of produce, flowers and native plants for non-profit use through individual or shared plots located on publicly-owned lands.

**Grasslands** are generally open and continuous, fairly flat areas of grass.

**Living walls or green walls** are vertical vegetated wall systems with irrigation (self sufficient vertical gardens).

**Ecological corridors** are narrow pieces of habitat that connects two larger patches of habitat that are surrounded by a nonhabitat matrix, thereby facilitating movements of animals and dispersal of plants and other organisms.

## Definitions (continued)

### Question 2

**Hybrid infrastructure:** incorporates elements of grey infrastructure to enhance or support natural infrastructure and the use of ecosystem processes.

### Question 3

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory on December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

### Question 4

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident; minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

#### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

#### Very good

Sound physical condition. No short-term failure risk and no work required.

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life:

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.

### Question 5

#### Climate change resilience

The capacity of a system, community, or society exposed to climate-related hazards to prepare for, adapt to, transform and recover from the effects of a hazard in a timely and efficient manner.

#### Increased access to nature

The development of new and publicly available blue or green spaces or the increased availability or size of existing and publicly accessible natural spaces, along with other improvements supportive of encouraging positive interactions for diverse community users with nature.

#### Improved environmental quality

The efficiency or productivity of natural systems and ecosystems to provide humans and communities with benefits such as clean air and clean water.

## Definitions (continued)

### Enhanced biodiversity

The enhancement or conservation of ecosystems, and improving ecosystem quality, quantity, and processes **including** its constituent elements forming ecosystem structure and function, such as animals and plants.

### Climate change mitigation

Intentional interventions to limit or reduce greenhouse gas emissions or store and sink carbon using natural and ecosystem processes; as well as the utilization of ecological and hybrid features, to reduce demand from carbon-emitting processes.

### Question 6

#### Climate hazards

**Flooding** is an overflowing of water onto land that is normally dry.

**Coastal erosion** is the process by which local sea level rise, strong wave action, and coastal flooding wear down or carry away rocks, soils, and sands along the coast.

**Extreme rainfall or precipitation** refers to instances during which the amount of rain or snow experienced in a location substantially exceeds what is normal.

**Extreme heat** is defined as, on average, the temperature must be between 31 °C and 33 °C in the daytime and between 16 °C and 20 °C at night for three consecutive days.

**Wildfire** is an unplanned fire — **including** unauthorized human-caused fires — occurring on forest or range lands, burning forest vegetation, grass, brush, scrub, peat lands, or a prescribed fire set under regulation which spreads beyond the area authorized for burning.

### Question 7

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, **including** demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

### Question 8

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

### Question 10

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

## Definitions (continued)

### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

### Optimizing (Level 4)

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

### Excellent (Level 5)

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### Question 11

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

### Climate change mitigation

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

### Question 12

#### Accessibility

This means taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

#### Universal design

This means supporting the usability of products and the built environment for the greatest number of people, **including** a wide spectrum of age groups and abilities. Universal design applies to the design of programs and services, technologies, transportation, instruction, and other products and environments.

# Canada's Core Public Infrastructure Survey 2022

## Shelters and Homeless Services

CONFIDENTIAL once completed.

Si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant : 1-833-977-8287

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.**

### Survey purpose

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

### Confidentiality

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 the response 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, which you will return to Statistics Canada with your completed questionnaire. In this letter, please specify the organizations with which you do not want Statistics Canada to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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.

### Approved disclosure

**Section 17** of the federal *Statistics Act* allows for the disclosure of certain information relating to an individual, business or organization. Statistics Canada will only disclose information where there is a demonstrated statistical need and for the public good, and when it will not harm individuals, organizations or businesses if data were disclosed. For Canada's Core Public Infrastructure Survey, the Chief Statistician has authorized the release of data relating to individual government entities and public utilities. These include data on assets at the aggregate and individual level. Additionally, the names of provincial, regional and municipal government organizations will be released, as well as the variables used in sampling and estimation.

### Record linkages

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

### Additional information

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*.

### Who should complete this questionnaire?

The response to the Canada's Core Public Infrastructure Survey must be coordinated by the organization's asset manager, who will ensure that each asset-specific questionnaire is completed by the manager of the asset in question.

**Please return the questionnaire within 30 days.**

If you are unable to complete within 30 days **OR** if you need help, call us at **1-833-977-8287**.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)



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Canada

## Reporting Instructions

- Report dollar amounts in **thousands of Canadian dollars**.
- Declare distances or lengths in kilometers.
- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter "0" if there is no value to report.

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## Shelters and Homeless Services

1. What was your organization's final inventory count of shelters and homeless service assets as of **December 31, 2022**?

**Include** structures owned by your organization even if operated or managed by other organizations.

**Exclude** structures operated or managed by your organization but not owned by your organization.

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

Report according to the main purpose of the structure (where structures are used for multiple purposes).

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

		Count of structures	Count of beds within structures
<b>&gt; Shelters and homeless service</b>			
a.	Emergency shelters	<input type="text"/> <small>C12B02101</small>	<input type="text"/> <small>C12B02201</small>
b.	Transitional shelters	<input type="text"/> <small>C12B02102</small>	<input type="text"/> <small>C12B02202</small>
c.	Domestic violence shelters	<input type="text"/> <small>C12B02103</small>	<input type="text"/> <small>C12B02203</small>
d.	Other homeless service not elsewhere classified	<input type="text"/> <small>C12B02104</small>	<input type="text"/> <small>C12B02204</small>

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**2.** How many private or public sector entities were funded by your organization to operate shelters and homeless service assets as of **December 31, 2022?**

**Include** structures owned, operated, or managed by your organization or other organizations (e.g., private-sector or non-governmental organizations) with the funding provided by your organization.

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

Report according to the main purpose of the structure (where structures are used for multiple purposes).

		Number of organizations received funding	Funding amount (CAN\$ '000)
<b>&gt; Shelters and homeless service</b>			
<b>a.</b>	Emergency shelters	<input type="text"/> <small>C12B0101</small>	\$ <input type="text"/> ,000 <small>C12B0201</small>
<b>b.</b>	Transitional shelters	<input type="text"/> <small>C12B0102</small>	\$ <input type="text"/> ,000 <small>C12B0202</small>
<b>c.</b>	Domestic violence shelters	<input type="text"/> <small>C12B0103</small>	\$ <input type="text"/> ,000 <small>C12B0203</small>
<b>d.</b>	Other homeless service not elsewhere classified	<input type="text"/> <small>C12B0104</small>	\$ <input type="text"/> ,000 <small>C12B0204</small>

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**3.** Provide the distribution of your organization’s shelters and homeless service assets inventory count based on the year of construction completion below.

Provide your best estimate when exact figures are not available.  
Report “0” when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	2020 to 2022	2010 to 2019	2000 to 2009	1970 to 1999	1940 to 1969	Prior to 1940
<b>&gt; Shelters and homeless service</b>						
<b>a.</b> Emergency shelters	<input type="text"/> <small>C12C0101</small>	<input type="text"/> <small>C12C0201</small>	<input type="text"/> <small>C12C0301</small>	<input type="text"/> <small>C12C0401</small>	<input type="text"/> <small>C12C0501</small>	<input type="text"/> <small>C12C0601</small>
<b>b.</b> Transitional shelters	<input type="text"/> <small>C12C0102</small>	<input type="text"/> <small>C12C0202</small>	<input type="text"/> <small>C12C0302</small>	<input type="text"/> <small>C12C0402</small>	<input type="text"/> <small>C12C0502</small>	<input type="text"/> <small>C12C0602</small>
<b>c.</b> Domestic violence shelters	<input type="text"/> <small>C12C0103</small>	<input type="text"/> <small>C12C0203</small>	<input type="text"/> <small>C12C0303</small>	<input type="text"/> <small>C12C0403</small>	<input type="text"/> <small>C12C0503</small>	<input type="text"/> <small>C12C0603</small>
<b>d.</b> Other homeless service not elsewhere classified	<input type="text"/> <small>C12C0104</small>	<input type="text"/> <small>C12C0204</small>	<input type="text"/> <small>C12C0304</small>	<input type="text"/> <small>C12C0404</small>	<input type="text"/> <small>C12C0504</small>	<input type="text"/> <small>C12C0604</small>

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4. In 2022, what was the overall physical condition of your organization’s shelter and homeless service assets?

Indicate the percent distribution of your assets by using the condition rating scale. This includes items to be decommissioned. Each reporting asset must total to 100%.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Very poor	Poor	Fair	Good	Very good	Do not know
<b>&gt; Shelters and homeless service</b>						
a. Emergency shelters	<input type="text"/> % <small>C12F0101</small>	<input type="text"/> % <small>C12F0201</small>	<input type="text"/> % <small>C12F0301</small>	<input type="text"/> % <small>C12F0401</small>	<input type="text"/> % <small>C12F0501</small>	<input type="text"/> % <small>C12F0601</small>
b. Transitional shelters	<input type="text"/> % <small>C12F0102</small>	<input type="text"/> % <small>C12F0202</small>	<input type="text"/> % <small>C12F0302</small>	<input type="text"/> % <small>C12F0402</small>	<input type="text"/> % <small>C12F0502</small>	<input type="text"/> % <small>C12F0602</small>
c. Domestic violence shelters	<input type="text"/> % <small>C12F0103</small>	<input type="text"/> % <small>C12F0203</small>	<input type="text"/> % <small>C12F0303</small>	<input type="text"/> % <small>C12F0403</small>	<input type="text"/> % <small>C12F0503</small>	<input type="text"/> % <small>C12F0603</small>
d. Other homeless service not elsewhere classified	<input type="text"/> % <small>C12F0104</small>	<input type="text"/> % <small>C12F0204</small>	<input type="text"/> % <small>C12F0304</small>	<input type="text"/> % <small>C12F0404</small>	<input type="text"/> % <small>C12F0504</small>	<input type="text"/> % <small>C12F0604</small>

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**5.** What is the **2022** estimated replacement value, required renewal budget, and actual renewal budget of shelters and homeless service assets owned by your organization?

Provide your best estimate when exact figures are not available.  
 Report "0" when the organization does not own or lease the asset.  
 If a breakdown is not available, please provide the total.  
 Please report all amounts in **thousands of Canadian dollars**.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Estimated replacement value (CAN\$ '000)	Required renewal budget (CAN\$ '000)	Actual renewal budget (CAN\$ '000)
<b>&gt; Shelters and homeless service</b>			
<b>a.</b> Emergency shelters	\$ <input type="text"/> ,000 <small>C12H0101</small>	\$ <input type="text"/> ,000 <small>C12H0201</small>	\$ <input type="text"/> ,000 <small>C12H0301</small>
<b>b.</b> Transitional shelters	\$ <input type="text"/> ,000 <small>C12H0102</small>	\$ <input type="text"/> ,000 <small>C12H0202</small>	\$ <input type="text"/> ,000 <small>C12H0302</small>
<b>c.</b> Domestic violence shelters	\$ <input type="text"/> ,000 <small>C12H0103</small>	\$ <input type="text"/> ,000 <small>C12H0203</small>	\$ <input type="text"/> ,000 <small>C12H0303</small>
<b>Total shelters</b>	\$ <input type="text"/> ,000 <small>C12H0104</small>	\$ <input type="text"/> ,000 <small>C12H0204</small>	\$ <input type="text"/> ,000 <small>C12H0304</small>
<b>d.</b> Other homeless service not elsewhere classified	\$ <input type="text"/> ,000 <small>C12H0105</small>	\$ <input type="text"/> ,000 <small>C12H0205</small>	\$ <input type="text"/> ,000 <small>C12H0305</small>
<b>Total homeless service</b>	\$ <input type="text"/> ,000 <small>C12H0106</small>	\$ <input type="text"/> ,000 <small>C12H0206</small>	\$ <input type="text"/> ,000 <small>C12H0306</small>

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6. In 2022, did your organization acquire or bring into service any new shelters and homeless service assets for the following categories? For the new assets acquired, please provide the expected useful life.

Indicate the useful life (in years) for new assets acquired or brought into service during the year.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

> Shelters and homeless service

a. Emergency shelters

C12H2201

1  Yes - new emergency shelters assets acquired in 2022

↳ Expected emergency shelters useful life

C12H2101

2  No - no new emergency shelters assets acquired in 2022

b. Transitional shelters

C12H2202

1  Yes - new transitional shelters assets acquired in 2022

↳ Expected transitional shelters useful life

C12H2102

2  No - no new transitional shelters assets acquired in 2022

c. Domestic violence shelters

C12H2203

1  Yes - new domestic violence shelters assets acquired in 2022

↳ Expected domestic violence shelters useful life

C12H2103

2  No - no new domestic violence shelters assets acquired in 2022

d. Other homeless service not elsewhere classified

C12H2204

1  Yes - new other homeless service not elsewhere classified assets acquired in 2022

↳ Expected other homeless service not elsewhere classified useful life

C12H2104

2  No - no new other homeless service not elsewhere classified assets acquired in 2022

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7. Does your organization have a documented asset management plan for shelters and homeless service?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12312

1 Yes

➤ **At what frequency is the asset management plan for shelters and homeless service updated?**

**Indicate** the frequency in years, if applicable.

Number of years

COG11312

2 No

➤ **When does your organization plan to have a documented asset management plan in place for shelters and homeless service?**

**Indicate** in how many years a plan will be implemented, if applicable.

Number of years

COG13312

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8. What type of asset management information system does your organization use for shelters and homeless service?  
Select only one answer.

Type of system

COG14312

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

9. In **2022**, what was the maturity level of your organization's asset management planning for shelters and homeless service?  
Select only one answer.  
Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01012

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know

**10.** Do climate change adaptation and mitigation factor into your organization's decision-making process for shelters and homeless services?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Climate change adaptation and mitigation

COG00312

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

**11.** Does accessibility and universal design factor into your organization's decision-making process for shelters and homeless service?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Accessibility and universal design

COG00212

- 1  Accessibility
- 2  Universal design
- 3  Both accessibility and universal design
- 4  Not a factor
- 5  Do not know

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## Definitions

### Question 1

#### Shelters and homeless services

##### Emergency shelters

Facilities providing temporary, short-term accommodation (typically less than 3 months in duration) for homeless individuals and families. This may or may not include other services such as food, clothing or counselling. There is no cost to service users and no referral or entry application is necessary to access the service. Counselling, treatment and other support services may be available to the people who access the service, but participation is not mandatory.

##### Transitional shelters

Facilities providing temporary shelter, but can be differentiated from emergency shelters by the longer length of stay and greater intensity of support services offered to clients. Transitional shelters are an intermediate step between emergency shelter and permanent housing. Support services help clients gain stability and self-sufficiency to maintain permanent housing. Stays are typically between three months and three years.

##### Domestic violence shelters

Facilities providing temporary shelter to individuals on their own or with dependent children who are fleeing domestic abuse. They may function in either a crisis capacity or as transitional or second stage housing, which refers to units designed to provide them with transitional accommodation when they decide not to return to the family home.

##### Other homeless service not elsewhere classified

A facility that provides services for homeless individuals and families, excluding accommodation services provided in emergency, transitional, and domestic violence shelters.

### Question 3

The year of construction completion or purchase represents the year in which the assets were initially brought into service or became available for use. Do not take into account any renewals or betterments of existing assets. The sum of all years should equal the total inventory at December 31st reported previously.

If the year is unknown, please provide your best estimate based on the approximate age of the asset.

### Question 4

Please indicate the percentage distribution of your assets by using the following condition rating scale.

#### Very poor

Immediate need to replace most or all of the asset. Health and safety hazards exist which present a possible risk to public safety or asset cannot be serviced or operated without risk to personnel. Major work or replacement required urgently.

#### Poor

Failure likely and substantial work required in the short term. Asset barely serviceable. No immediate risk to health or safety.

#### Fair

Significant deterioration is evident, minor components or isolated sections of the asset need replacement or repair now but asset is still serviceable and functions safely at adequate level of service.

#### Good

Acceptable physical condition; minimal short-term failure risk but potential for deterioration in the long term. Only minor work required.

#### Very good

Sound physical condition. No short-term failure risk and no work required.



## Definitions (continued)

If you are unable to report according to the risk of failure identified in the above definitions, please use the below guidance on the expected remaining service life:

**Very poor** – the operating asset has less than 10% of its expected service life remaining.

**Poor** – the operating asset has less than 40% of its expected service life remaining.

**Fair** – the operating asset has at least 40% of its expected service life remaining.

**Good** – the operating asset has at least 80% of its expected service life remaining.

**Very good** – the operating asset has at least 95% of its expected service life remaining.

### Question 5

#### Estimated replacement value

The approximate cost at the present time (in current dollars) that would be required to replace the assets owned or leased by your organization, **including** demolition costs.

**Exclude** land costs and overhead (administration).

#### Required renewal budget

The capital budget required for rehabilitation, reconstruction, or replacement of the assets to bring rating of all assets to a rating of “good” at December 31st of the reference year.

**Include** investments required to increase the performance or capacity of existing fixed assets or to extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

#### Actual renewal budget

The actual funds spent for the rehabilitation, reconstruction a replacement of the assets during the year.

**Include** investments which increase the performance or capacity of existing fixed assets or extend their previously expected service lives.

**Exclude** costs of regular maintenance and repairs that do not increase the assets’ performance, capacity or service life.

### Question 6

**Expected useful life** of an asset refers to the service life or the productive life of the asset at the time of its acquisition regardless of their lives reported for income tax purposes.

**Include** assets that were newly built, acquired or donated during the reference year.

**Exclude** the purchase or acquisition of used assets (existing assets acquired from another organization), ownership transfers, and asset betterments and renewals.

### Question 7

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

### Question 9

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

## Definitions (continued)

### **Competent (Level 3)**

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

### **Optimizing (Level 4)**

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

### **Excellent (Level 5)**

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### **Question 10**

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

### **Climate change mitigation**

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

### **Question 11**

#### **Accessibility**

This means taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

#### **Universal design**

This means supporting the usability of products and the built environment for the greatest number of people, **including** a wide spectrum of age groups and abilities. Universal design applies to the design of programs and services, technologies, transportation, instruction, and other products and environments.

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# Canada's Core Public Infrastructure Survey 2022

## Public Social and Affordable Housing

CONFIDENTIAL once completed.

Si vous préférez recevoir ce document en français, veuillez nous appeler au numéro sans frais suivant : 1-833-977-8287

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.**

### Survey purpose

Statistics Canada is undertaking this survey to provide useful statistical information on the stock, condition, performance and asset management strategies of Canada's core public infrastructure assets owned or leased by the various levels of government and Indigenous entities.

The information compiled by this survey will be used by analysts and policy-makers to better understand the current condition of Canada's core infrastructure. This will enable all levels of government to develop policies to support the efforts in improving Canada's core public infrastructure and help monitor and report progress on achievement of desired outcomes.

### Confidentiality

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 the response 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, which you will return to Statistics Canada with your completed questionnaire. In this letter, please specify the organizations with which you do not want Statistics Canada to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with Infrastructure Canada.

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.

### Approved disclosure

**Section 17** of the federal *Statistics Act* allows for the disclosure of certain information relating to an individual, business or organization. Statistics Canada will only disclose information where there is a demonstrated statistical need and for the public good, and when it will not harm individuals, organizations or businesses if data were disclosed. For Canada's Core Public Infrastructure Survey, the Chief Statistician has authorized the release of data relating to individual government entities and public utilities. These include data on assets at the aggregate and individual level. Additionally, the names of provincial, regional and municipal government organizations will be released, as well as the variables used in sampling and estimation.

### Record linkages

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

### Additional information

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*.

### Who should complete this questionnaire?

The response to the Canada's Core Public Infrastructure Survey must be coordinated by the organization's asset manager, who will ensure that each asset-specific questionnaire is completed by the manager of the asset in question.

**Please return the questionnaire within 30 days.**

If you are unable to complete within 30 days **OR** if you need help, call us at **1-833-977-8287**.

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)

## Reporting Instructions

- Report dollar amounts in **thousands of Canadian dollars**.
- Declare distances or lengths in kilometers.
- Report counts in whole number.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter “0” if there is no value to report.

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## Public Social and Affordable Housing

1. As of **December 31, 2022**, what was your organization's final inventory count of public social and affordable housing structures and units?

**Include** structures owned by your organization even if operated or managed by other organizations.

**Exclude** structures operated or managed by your organization but not owned by your organization.

Provide your best estimate when exact figures are not available.

Report "0" when the organization does not own or lease the asset.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

		Count of structures	Count of units within structures
a.	Single detached house	<input type="text"/> C9B01101	<input type="text"/> C9B01201
b.	Semi detached house <b>Include</b> duplex and triplex housing.	<input type="text"/> C9B01102	<input type="text"/> C9B01202
c.	Row house i.e., a set of row houses represents one structure	<input type="text"/> C9B01103	<input type="text"/> C9B01203
d.	Apartment building (fewer than five storeys)	<input type="text"/> C9B01104	<input type="text"/> C9B01204
e.	Apartment building (five or more storeys)	<input type="text"/> C9B01105	<input type="text"/> C9B01205

2. As of **December 31, 2022**, what percentage of your organization’s inventory of public social and affordable housing structures have barrier-free design?

**Include** buildings that have a barrier free entrance and path of travel.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

	Percentage of total count of structures
a. Single detached house	<input type="text"/> % <small>C9G18101</small>
b. Semi detached house <b>Include</b> duplex and triplex housing.	<input type="text"/> % <small>C9G18102</small>
c. Row house <b>i.e.</b> , a set of row houses represents one structure	<input type="text"/> % <small>C9G18103</small>
d. Apartment building (fewer than five storeys)	<input type="text"/> % <small>C9G18104</small>
e. Apartment building (five or more storeys)	<input type="text"/> % <small>C9G18105</small>

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3. Does your organization have a documented asset management plan for public social and affordable housing?

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

COG12308

1 Yes



**> At what frequency is the asset management plan for public social and affordable housing updated?**

Indicate the frequency in years, if applicable.

Number of years

COG11308

2 No



**> When does your organization plan to have a documented asset management plan in place for public social and affordable housing?**

Indicate in how many years a plan will be implemented, if applicable.

Number of years

COG13308

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4. What type of asset management information system does your organization use for public social and affordable housing?  
Select only one answer.

Type of system

COG14308

- 1  Custom software
- 2  Off-the-shelf software
- 3  Spreadsheet
- 4  Paper records
- 5  Do not know
- 6  Other

5. In **2022**, what was the maturity level of your organization's asset management planning for public social and affordable housing?  
Select only one answer.  
Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

Maturity level

COG01008

- 1  Aware
- 2  Developing
- 3  Competent
- 4  Optimizing
- 5  Excellent
- 6  Do not know



6. Do climate change adaptation and mitigation factor into your organization's decision-making process for public social and affordable housing?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Climate change adaptation and mitigation

COG00308

- 1  Climate change adaptation
- 2  Climate change mitigation
- 3  Both adaptation and mitigation
- 4  Not a factor
- 5  Do not know

7. Does accessibility and universal design factor into your organization's decision-making process for public social and affordable housing?

Select only one answer.

Please refer to the DEFINITIONS section at the end of this questionnaire for more information.

#### Accessibility and universal design

COG00208

- 1  Accessibility
- 2  Universal design
- 3  Both accessibility and universal design
- 4  Not a factor
- 5  Do not know

## Definitions

### Question 1

**Public social and affordable housing**, for the purposes of this survey, refers to publicly-owned housing units aiming to provide affordable, safe and supportive housing for low-to-moderate-income households.

**Include** structures owned by your organization even if operated or managed by other organizations.

**Exclude** structures operated or managed by your organization but not owned by your organization.

**Exclude** shelters and homeless services.

**Public social and affordable housing structures include the following:**

#### Single-detached house

A single dwelling not attached to any other dwelling or structure (except its own garage or shed). A single-detached house has open space on all sides, and has no dwellings either above it or below it. A mobile home fixed permanently to a foundation is also classified as a single-detached house.

#### Semi-detached house

One of two dwellings attached side by side (or back to back) to each other, but not attached to any other dwelling or structure (except its own garage or shed). The two units together have open space on all sides. Include duplex, triplex and quadruplex housing.

#### Row house

One of three or more dwellings joined side by side (or occasionally side to back), such as a townhouse or garden home, but not having any other dwellings either above or below. A set of row houses represents one structure. Include townhouses attached to a high-rise building.

#### Apartment building (fewer than five storeys)

A building that has fewer than five storeys.

#### Apartment building (five or more storeys)

A high-rise apartment building which has five or more storeys.

### Question 2

Report the percentage of social and affordable housing buildings owned by your organization that have barrier-free design structures.

#### Barrier-free design structures

The absence of obstacles in social and affordable housing allowing persons with physical or sensory disabilities safer and easier access into buildings, and the use of those buildings.

**Include** buildings that have a barrier free entrance and path of travel.

**Entrance** refers to any access point into a building and **includes** the approach walkway, the vertical access leading to the entrance platform, the entrance platform itself, vestibules (if provided), and the entry doors.

**Barrier free path of travel** refers to building entrances and exits; circulation or routes within buildings; wayfinding and signage; and interior building elements such as wider and automatic doors.

### Question 3

An **Asset Management Plan** defines how a group of assets is to be managed over a period of time. The asset management plan describes the characteristics and condition of infrastructure assets, the levels of service expected from them, planned actions to ensure the assets are providing the expected level of service, and financing strategies to implement the planned actions.

## Definitions (continued)

### Question 5

Please indicate for each asset class by using the following maturity scale:

#### Aware (Level 1)

Our approach to asset renewal focuses on reacting to basic needs (e.g., growth, regulations and known problems). We evaluate priorities based on available information, staff experience, and input from council and management.

#### Developing (Level 2)

We have draft asset management plans for some asset classes, with forecasted financial needs based on estimated data.

#### Competent (Level 3)

We have asset management plans for critical services, based on a mix of estimated and actual data. Our asset management plans include available information about level of service (current and target) and risk management. Our asset management plans identify short-term issues and priorities.

#### Optimizing (Level 4)

We have asset management plans for most services based on actual data. Our asset management plans include basic needs forecasting and risk management strategies for critical assets. Our asset management plans are based on both short- and long-term issues and priorities. They balance short-term service objectives with longer-term goals and risks. We keep our asset management plans up to date through normal business.

#### Excellent (Level 5)

We have asset management plans for all services based on actual data. Our individual asset management plans are integrated across services. Our asset management plans include needs forecasts and risk management strategies for most assets. Plans address risks to both service and business goals.

### Question 6

**Climate change adaptation** means planning for and acting on the anticipated impacts of climate change. It involves making changes to how we live and what we do before climate change impacts happen (anticipatory) as well as being ready to respond to increasingly likely and frequent extreme events (reactive).

#### Climate change mitigation

The reduction, removal, or avoidance of greenhouse gas emissions from a specific project.

### Question 7

#### Accessibility

This means taking appropriate measures to ensure persons with disabilities have access, on an equal basis with others, to the physical environment, to transportation, and to other facilities and services open and provided to the public, both in urban and rural areas.

#### Universal design

This means supporting the usability of products and the built environment for the greatest number of people, **including** a wide spectrum of age groups and abilities. Universal design applies to the design of programs and services, technologies, transportation, instruction, and other products and environments.