

# INFOHYDRO

## Canada

Hydrological observation in the country are largely undertaken by Environment Canada

The following information pertaining to:

Environment Canada

### Preliminary information

[Pluviographs - Continuous Precipitation Recording](#)

[Daily Precipitation](#)

[Evaporation](#)

[Stage non-recording](#)

[Stage recording](#)

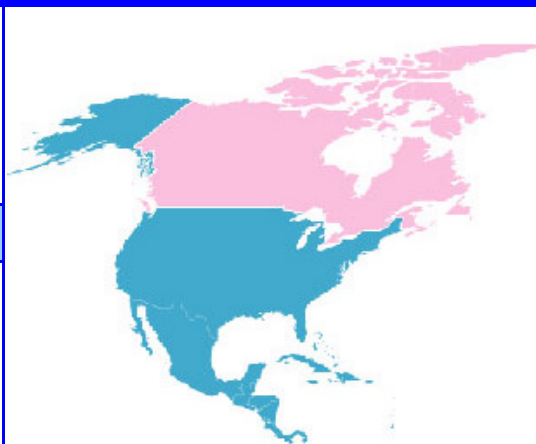
[Discharge non-recording](#)

[Discharge recording](#)

[Groundwater](#)

[Sediment](#)

[Water quality](#)



Percentage of coverage represented by these data:

N/A

Last update:

04/05/2006

### **Preliminary information**

Main unit of institution name (*Base name of an institution, usually the name of the governing body*)

Subordinate unit of institution name (*Part of a name of an institution that defines a subdivision or department or unit of the institution*)

Abbreviated name

Full mailing address (*of the Institution*)

Full location address (*of the Institution*). Indicate only if not the same then mailing address

Telephone number (*Central operator*)

Telefacsimile number (*Central operator*)

Electronic mail identifier (*E-mail address*)

Host system network address (*Web site address*)

### **Canada**

Environment Canada

Meteorological Service of Canada

EC/MSC

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# INFOHYDRO

Preliminary information		Canada
Protocol options ( <i>Code, word or phrase that specifies capabilities that are supported by a service provider ; "yes" -If activity undertaken - "no" otherwise</i> )	General Hydrology	no
	Hydropower	no
	Agriculture	no
	Water supply	no
	Flood control	no
	Pollution control	no
	Navigation	no
	Others ( <i>please specify</i> )	
Coverage	National ( <i>if not leave blank</i> )	yes
	Other (Regional, State, Province...)	some provincial
Types of stations operated	Hydrometric	yes
	Groundwater	yes
	Climate	yes
	Snow	yes
	Lake levels	yes
	Glaciers	no
	Estuaries	no
	Ice thickness	no
	Soil Moisture	no
	Sediment	yes
	Water quality	yes
Bio diversity	no	
Geographical Descriptors	Area of country or region (State) ( <i>km<sup>2</sup></i> )	9093507
	Mean Annual Precipitation ( <i>mm</i> )	
	Standard Deviation of Annual Precipitation ( <i>mm</i> )	
	General climate ( <i>Tropical,sub-tropical, Arid, semi-arid, temperate etc...</i> )	

# INFOHYDRO

Pluviographs - Continuous Precipitation Recording		Canada
Number of sites at which recordings are taken ( <i>Number of sites currently operating</i> )		8
Level of responsibility for national coverage ( <i>Yes if "National" or specify "Other" but not both</i> )	National ( <i>if not leave blank</i> )	yes
	Other ( <i>Regional, State, Province...</i> )	National until 1999
Tabular information on the number of stations operated for different time periods ( <i>Number of sites currently operating</i> )	Less than 5 years	8
	5 years to 10 years	8
	11 years to 30 years	73
	Greater than 30 years	91
Method of transmission of data from sites and number of sites using this method of transmission ( <i>Number of sites currently operating</i> )	Telephone	
	Radio	
	Satellite	
	Others ( <i>Please specify and give number operating</i> )	180
Method used to estimate precipitation ( <i>Number of sites currently operating</i> )	Tipping Bucket	180
	Siphon	
	Others ( <i>Please specify and give number operating</i> )	
Number of radar stations located in the country ( <i>Number of sites</i> )		31
Date that this information was last updated ( <i>month and year</i> )		Ongoing per station as required
Are the data: Available in an electronic medium ( <i>yes or no</i> )		Yes
Stored in a database ( <i>yes or no</i> )		Yes

# INFOHYDRO

Daily Precipitation		Canada
Number of sites at which recordings are taken ( <i>Number of sites currently operating</i> )		891
Level of responsibility for national coverage ( <i>Yes if "National" or specify "Other" but not both</i> )	National ( <i>if not leave blank</i> )	yes
	Other ( <i>Regional, State, Province...</i> )	
Tabular information on the number of stations operated for different time periods ( <i>Number of sites currently operating</i> )	Less than 5 years	166
	5 years to 10 years	172
	11 years to 30 years	338
	Greater than 30 years	215
Method of transmission of data from sites and number of sites using this method of transmission ( <i>Number of sites currently operating</i> )	Telephone	55
	Radio	
	Satellite	77
	Post/Collected	
	Others ( <i>Please specify and give number operating</i> )	modem - 122
Date that this information was last updated ( <i>month and year</i> )		Station information updated as required
Are the data: Available in an electronic medium ( <i>yes or no</i> )		Yes
Stored in a database ( <i>yes or no</i> )		Yes

# INFOHYDRO

Evaporation		Canada
Recording frequency ( <i>Instantaneous, seconds, minutes, hours, days, etc.</i> )		Daily
Number of sites at which recordings are taken ( <i>Number of sites currently operating</i> )		7
Level of responsibility for national coverage ( <i>Yes if "National" or specify "Other" but not both</i> )	National ( <i>if not leave blank</i> )	yes
	Other ( <i>Regional, State, Province...</i> )	
Tabular information on the number of stations operated for different time periods ( <i>Number of sites currently operating</i> )	Less than 5 years	5
	5 years to 10 years	7
	11 years to 30 years	25
	Greater than 30 years	28
Method of transmission of data from sites and number of sites using this method of transmission ( <i>Number of sites currently operating</i> )	Telephone	
	Radio	
	Satellite	
	Post/Collected	65
	Others ( <i>Please specify and give number operating</i> )	
Method used to estimate evaporation ( <i>Yes -If activity undertaken- No, otherwise</i> )	Direct measurement	no
	Indirect calculation	no
Date that this information was last updated ( <i>month and year</i> )		Station information updated as required
Are the data: Available in an electronic medium ( <i>yes or no</i> )		Yes
Stored in a database ( <i>yes or no</i> )		Yes

# INFOHYDRO

Stage non-recording		Canada
Recording frequency ( <i>Instantaneous, seconds, minutes, hours, days, etc.</i> )		Variable
Number of sites at which measurements are taken ( <i>Number of sites currently operating</i> )		146
Level of responsibility for national coverage ( <i>Yes if "National" or specify "Other" but not both</i> )	National ( <i>if not leave blank</i> )	no
	Other ( <i>Regional, State, Province...</i> )	
Tabular information on the number of stations operated for different time periods ( <i>Number of sites currently operating</i> )	Less than 5 years	
	5 years to 10 years	10
	11 years to 30 years	28
	Greater than 30 years	108
Method of transmission of data from sites and number of sites using this method of transmission ( <i>Number of sites currently operating</i> )	Telephone	
	Post/Collected	
	Others ( <i>Please specify and give number operating</i> )	
Method used to estimate stage ( <i>Yes -If activity undertaken. -No- otherwise</i> )	Gauge-board	no
	Others ( <i>Please specify</i> )	
Date that this information was last updated ( <i>month and year</i> )		04-2006
Are the data: Available in an electronic medium ( <i>yes or no</i> )		Yes
Stored in a database ( <i>yes or no</i> )		Yes

# INFOHYDRO

Stage recording		Canada
Recording frequency ( <i>Instantaneous, seconds, minutes, hours, days, etc.</i> )		5-15 minutes
Number of sites at which recordings are taken ( <i>Number of sites currently operating</i> )		1479
Level of responsibility for national coverage ( <i>Yes if "National" or specify "Other" but not both</i> )	National ( <i>if not leave blank</i> )	no
	Other ( <i>Specify if Regional, State, Province...</i> )	
Tabular information on the number of stations operated for different time periods ( <i>Number of sites currently operating</i> )	Less than 5 years	78
	5 years to 10 years	185
	11 years to 30 years	678
	Greater than 30 years	801
Method of transmission of data from sites and number of sites using this method of transmission ( <i>Number of sites currently operating</i> )	Telephone	63
	Radio	29
	Satellite	223
	Post/Collected	
	Others ( <i>Please specify and give number operating</i> )	
Method used to estimate stage ( <i>Yes -If activity undertaken. -No- otherwise</i> )	Gauge-board	no
	Float Well	no
	Gas-pressure	no
	Others ( <i>Please specify</i> )	
Date that this information was last updated ( <i>month and year</i> )		04-2006
Are the data: Available in an electronic medium ( <i>yes or no</i> )		Yes
Stored in a database ( <i>yes or no</i> )		Yes

# INFOHYDRO

Discharge non-recording		Canada
Recording frequency ( <i>Instantaneous, seconds, minutes, hours, days, etc.</i> )		Variable
Number of sites at which measurements are taken ( <i>Number of sites currently operating</i> )		1
Level of responsibility for national coverage ( <i>Yes if "National" or specify "Other" but not both</i> )	National ( <i>if not leave blank</i> )	no
	Other ( <i>Regional, State, Province...</i> )	
Tabular information on the number of stations operated for different time periods ( <i>Number of sites currently operating</i> )	Less than 5 years	
	5 years to 10 years	
	11 years to 30 years	1
	Greater than 30 years	
Method of transmission of data from sites and number of sites using this method of transmission ( <i>Number of sites currently operating</i> )	Telephone	1
	Post/Collected	
	Others ( <i>Please specify and give number operating</i> )	
Method used to determine stage ( <i>Yes -If activity undertaken- No, otherwise</i> )	Direct measurement ( <i>Gauge Boards</i> )	no
	Indirect calculation	no
Method used to estimate discharge ( <i>Yes -If activity undertaken. -No- otherwise</i> )	Rating Curve	no
	Others ( <i>Please specify</i> )	
Date that this information was last updated ( <i>month and year</i> )		04-2006
Are the data: Available in an electronic medium ( <i>yes or no</i> )		Yes
Stored in a database ( <i>yes or no</i> )		yes

# INFOHYDRO

Discharge recording		Canada
Recording frequency ( <i>Instantaneous, seconds, minutes, hours, days, etc.</i> )		5-15 minutes
Number of sites at which recordings are taken ( <i>Number of sites currently operating</i> )		2033
Level of responsibility for national coverage ( <i>Yes if "National" or specify "Other" but not both</i> )	National ( <i>if not leave blank</i> )	no
	Other ( <i>Regional, State, Province...</i> )	
Tabular information on the number of stations operated for different time periods ( <i>Number of sites currently operating</i> )	Less than 5 years	655
	5 years to 10 years	119
	11 years to 30 years	546
	Greater than 30 years	713
Method of transmission of data from sites and number of sites using this method of transmission ( <i>Number of sites currently operating</i> )	Telephone	188
	Radio	130
	Satellite	683
	Post/Collected	
	Others ( <i>Please specify and give number operating</i> )	
Method used to determine stage ( <i>Yes -If activity undertaken- No, otherwise</i> )	Gauge-board	no
	Float Well	no
	Gas-pressure	no
	Others ( <i>Please specify</i> )	
Method used to estimate discharge ( <i>Yes -If activity undertaken- No,</i>	Rating Curve	no
	Others ( <i>Please specify</i> )	
Date that this information was last updated ( <i>month and year</i> )		04-2006
Are the data: Available in an electronic medium ( <i>yes or no</i> )		Yes
Stored in a database ( <i>yes or no</i> )		Yes

# INFOHYDRO

Groundwater		Canada
Recording frequency	Non-continuous	
	Continuous	
Number of sites at which recordings are taken ( <i>Number of sites currently operating</i> )		1358
Level of responsibility for national coverage ( <i>Yes if "National" or specify "Other" but not both</i> )	National ( <i>if not leave blank</i> )	no
	Other ( <i>Regional, State, Province...</i> )	provincial
Tabular information on the number of stations operated for different time periods ( <i>Number of sites currently operating</i> )	Less than 5 years	471
	5 years to 10 years	178
	11 years to 30 years	433
	Greater than 30 years	278
Date that this information was last updated ( <i>month and year</i> )		12-2005
Are the data: Available in an electronic medium ( <i>yes or no</i> )		Yes
Stored in a database ( <i>yes or no</i> )		No
Are water quality data taken ( <i>yes or no</i> )		No

# INFOHYDRO

Sediment		Canada
Recording frequency ( <i>Instantaneous, seconds, minutes, hours, days, etc.</i> )		Miscellaneous
Number of sites at which recordings are taken ( <i>Number of sites currently operating</i> )		212
Level of responsibility for national coverage ( <i>Yes if "National" or specify "Other" but not both</i> )	National ( <i>if not leave blank</i> )	no
	Other ( <i>Regional, State, Province...</i> )	
Tabular information on the number of stations operated for different time periods ( <i>Number of sites currently operating</i> )	Less than 5 years	1
	5 years to 10 years	3
	11 years to 30 years	156
	Greater than 30 years	52
Date that this information was last updated ( <i>month and year</i> )		04-2006
Are the data: Available in an electronic medium ( <i>yes or no</i> )		Yes
Stored in a database ( <i>yes or no</i> )		Yes

# INFOHYDRO

Water quality		Canada
Data routinely measured (Yes -if activity undertaken. -No- otherwise)	Water Temperature	yes
	Air Temperature	no
	pH	yes
	Specific Conductivity	yes
	Dissolved Oxygen	yes
	Turbidity	yes
	Major ions	yes
	Metals	yes
	Organics	yes
	Pesticides	yes
	Herbicides	yes
	Mercury	yes
	Phenols	yes
	Nutrients	yes
BOD & COD	yes	
POPs	yes	
	Others (Please specify)	
Number of sites at which recordings are taken (Number of sites currently operating)		330
Level of responsibility for national coverage (Yes if "National" or specify "Other" but not both)	National (if not leave blank)	no
	Other (Regional, State, Province...)	Federal and federal/provincial
Tabular information on the number of stations operated for different time periods (Number of sites currently operating)	Less than 5 years	
	5 years to 10 years	
	11 years to 30 years	330
	Greater than 30 years	
Date that this information was last updated (month and year)		01-2006
Are the data: Available in an electronic medium (yes or no)		Yes
Stored in a database (yes or no)		Yes