

*ISO 19131 AAFC Annual Unit Runoff in
Canada - 2013 – Data Product
Specification*

Revision: A

Data specification: AAFC Annual Unit Runoff in Canada - 2013

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Data specification: AAFC Annual Unit Runoff in Canada - 2013

1. OVERVIEW

1.1. Informal description

The “AAFC Annual Unit Runoff in Canada - 2013” report aims to illustrate runoff trends across the country by calculating annual unit runoff for a variety of probabilities of exceedence commonly used by decision makers. Annual unit runoff is a measure of runoff volume per square kilometre. This series uses units of cubic decametres (1000 m³) per square kilometre (dam³/km²), which is equivalent to millimetres depth on the landscape. It includes a point data set for the hydrologic stations that were analyzed and seven sets of linework to show the adjusted isolines for 10%, 25%, 50%, 70%, 75%, 80%, and 90% probability of exceedence.

It is an update and expansion of the work completed in the 1994 report “Annual Unit Runoff on the Canadian Prairies”.

1.2. Data product specification metadata

This section provides metadata about the creation of this data product specification.

Data product specification title:	AAFC Annual Unit Runoff in Canada - 2013
Data product specification reference date:	2013-03-20
Data product specification responsible party:	Science and Technology Branch
Data product specification language:	English
Data product specification topic category:	Environment, inlandWaters

1.3. Terms and definitions

- Annual Unit Runoff**
 A measure of runoff volume per square kilometre. This data set uses units of cubic decametres (1000 m³) per square kilometre (dam³/km²), which is equivalent to millimetres depth on the landscape.
- Probability of Exceedence**
 the chance of a unit runoff value being equaled or exceeded in any one year. For example, an annual unit runoff of 50 dam³/km² at a 70% probability of exceedence means that, in any given year, there is a 70% probability that the annual unit runoff will be at least 50 dam³/km².
- Effective Drainage Area**
 that portion of a drainage basin expected to contribute to runoff at the station (the basin outlet) during a runoff event with a return period of two years.
- Gross Drainage Area**
 the total area of the basin – the area assumed from topography to drain to one point, the gauging station.

1.4. Abbreviations

AAFC	Agriculture and Agri-Food Canada
AESB	Agri-Environment Services Branch
AUR	Annual Unit Runoff
EDA	Effective Drainage Area
GDA	Gross Drainage Area
MAUR	Median Annual Unit Runoff (50% probability of exceedence)
PFRA	Prairie Farm Rehabilitation Administration
S&T	Science and Technology
WSC	Water Survey of Canada

2. SPECIFICATION SCOPE

This data specification has only one scope, the general scope.

NOTE: The term 'specification scope' originates from the International Standard ISO19131. 'Specification scope' does not express the purpose for the creation of a data specification or the potential use of data, but identifies partitions of the data specification where specific requirements apply.

3. DATA PRODUCT IDENTIFICATION

3.1. Data Series Identification

Title	AAFC Annual Unit Runoff in Canada - 2013
Alternate Title	AUR
Abstract	The "AAFC Annual Unit Runoff in Canada - 2013" data series illustrates runoff trends across the country by isolines of annual unit runoff for a variety of probabilities of exceedence commonly used by decision makers Annual unit runoff is a measure of runoff volume per square kilometre. This series uses units of cubic decametres (1000 m ³) per square kilometre (dam ³ /km ²), which is equivalent to millimetres depth on the landscape. It includes a point data set for the hydrologic stations that were analyzed and seven sets of line work to show the adjusted isolines for 10%, 25%, 50%, 70%, 75%, 80%, and 90% probability of exceedence.
Purpose	The datasets in this series are used to observe unit runoff across Canada. This information is useful for preliminary design of small projects, such as ponds and dugouts.
Topic Category	Environment, inlandWaters
Spatial Reference Type	vector
Spatial Resolution	
Geographic Description	This specification is applicable within the extent of Canada.
Supplemental Information	None
Constraints	Data are subject to the Government of Canada Open Data Licence Agreement available at www.data.gc.ca .
Keywords	Thesaurus: Government of Canada Core Subject Thesaurus (http://www.thesaurus.gc.ca/recherche-search/thes-eng.html) Date: February 1, 2000 Keywords: hydrology, water management, water supply, watersheds, water resource management
Scope identification	series

3.2. Data product identification

3.2.1. Stations used for Unit Runoff Analysis

Title	Stations used for Unit Runoff Analysis
Alternate Title	AAFC_AUR_2013_ACTIVE_STNS
Abstract	The “Stations used for Unit Runoff Analysis” dataset is a point data set for select hydrological stations that covers the extent of Canada.
Purpose	The dataset provides unit runoff values for the probability of exceedences of interest for station locations across Canada.
Topic Category	Environment
Spatial Reference Type	vector
Spatial Resolution	
Geographic Description	This specification is applicable within the extent of Canada.
Supplemental Information	None
Constraints	Data are subject to the Government of Canada Open Data Licence Agreement available at www.data.gc.ca .
Keywords	Thesaurus: Government of Canada Core Subject Thesaurus (http://www.thesaurus.gc.ca/recherche-search/thes-eng.html) Date: February 1, 2000 Keywords: hydrology, water management, water supply, watersheds, water resource management
Scope Identification	dataset
Feature Attribute Names	Station Identification, Station Name, Gross Drainage Area in Square Kilometers, Annual Unit Runoff for a 10% Probability of Exceedence, Annual Unit Runoff for a 25% Probability of Exceedence, Annual Unit Runoff for a 50% Probability of Exceedence, Annual Unit Runoff for a 70% Probability of Exceedence, Annual Unit Runoff for a 75% Probability of Exceedence, Annual Unit Runoff for a 80% Probability of Exceedence, Annual Unit Runoff for a 90% Probability of Exceedence, Point Source, Label Id

3.2.2. Annual Unit Runoff (dam^3/km^2) for a 10% Probability of Exceedence

Title	Annual Unit Runoff (dam^3/km^2) for a 10% Probability of Exceedence
Alternate Title	AAFC_AUR_2013_POE_10
Abstract	The “Annual Unit Runoff (dam^3/km^2) for a 10%

	Probability of Exceedence” dataset is a line data set that covers the extent of Canada. It shows the 10% Probability of exceedence annual unit runoff.
Purpose	The dataset provides unit runoff values for the 10% probability of exceedence across Canada.
Topic Category	Environment
Spatial Reference Type	Vector
Spatial Resolution	
Geographic Description	This specification is applicable within the extent of Canada.
Supplemental Information	None
Constraints	Data are subject to the Government of Canada Open Data Licence Agreement available at www.data.gc.ca .
Keywords	Thesaurus: Government of Canada Core Subject Thesaurus (http://www.thesaurus.gc.ca/recherche-search/thes-eng.html) Date: February 1, 2000 Keywords: hydrology, water management, water supply, watersheds, water resource management
Scope Identification	dataset
Feature Attribute Names	Contour

3.2.3. Annual Unit Runoff (dam^3/km^2) for a 25% Probability of Exceedence

Title	Annual Unit Runoff (dam^3/km^2) for a 25% Probability of Exceedence
Alternate Title	AAFC_AUR_2013_POE_25
Abstract	The “Annual Unit Runoff (dam^3/km^2) for a 25% Probability of Exceedence” dataset is a line data set that covers the extent of Canada. It shows the 25% Probability of exceedence annual unit runoff.
Purpose	The dataset provides unit runoff values for the 25% probability of exceedence across Canada.
Topic Category	Environment
Spatial Reference Type	Vector
Spatial Resolution	
Geographic Description	This specification is applicable within the extent of Canada.

Supplemental Information	None
Constraints	Data are subject to the Government of Canada Open Data Licence Agreement available at www.data.gc.ca .
Keywords	Thesaurus: Government of Canada Core Subject Thesaurus (http://www.thesaurus.gc.ca/recherche-search/thes-eng.html) Date: February 1, 2000 Keywords: hydrology, water management, water supply, watersheds, water resource management
Scope Identification	dataset
Feature Attribute Names	Contour

3.2.4. Annual Unit Runoff (dam^3/km^2) for a 50% Probability of Exceedence

Title	Annual Unit Runoff (dam^3/km^2) for a 50% Probability of Exceedence
Alternate Title	AAFC_AUR_2013_POE_50
Abstract	The "Annual Unit Runoff (dam^3/km^2) for a 50% Probability of Exceedence" dataset is a line data set that covers the extent of Canada. It shows the 50% Probability of exceedence annual unit runoff.
Purpose	The dataset provides unit runoff values for the 50% probability of exceedence across Canada.
Topic Category	Environment
Spatial Reference Type	Vector
Spatial Resolution	
Geographic Description	This specification is applicable within the extent of Canada.
Supplemental Information	None
Constraints	Data are subject to the Government of Canada Open Data Licence Agreement available at www.data.gc.ca .
Keywords	Thesaurus: Government of Canada Core Subject Thesaurus (http://www.thesaurus.gc.ca/recherche-search/thes-eng.html) Date: February 1, 2000 Keywords: hydrology, water management, water supply, watersheds, water resource management
Scope Identification	dataset
Feature Attribute Names	Contour

3.2.5. Annual Unit Runoff (dam³/km²) for a 70% Probability of Exceedence

Title	Annual Unit Runoff (dam ³ /km ²) for a 70% Probability of Exceedence
Alternate Title	AAFC_AUR_2013_POE_70
Abstract	The "Annual Unit Runoff (dam ³ /km ²) for a 70% Probability of Exceedence" dataset is a line data set that covers the extent of Canada. It shows the 70% Probability of exceedence annual unit runoff.
Purpose	The dataset provides unit runoff values for the 70% probability of exceedence across Canada.
Topic Category	Environment
Spatial Reference Type	Vector
Spatial Resolution	
Geographic Description	This specification is applicable within the extent of Canada.
Supplemental Information	None
Constraints	Data are subject to the Government of Canada Open Data Licence Agreement available at www.data.gc.ca .
Keywords	Thesaurus: Government of Canada Core Subject Thesaurus (http://www.thesaurus.gc.ca/recherche-search/thes-eng.html) Date: February 1, 2000 Keywords: hydrology, water management, water supply, watersheds, water resource management
Scope Identification	dataset
Feature Attribute Names	Contour

3.2.6. Annual Unit Runoff (dam³/km²) for a 75% Probability of Exceedence

Title	Annual Unit Runoff (dam ³ /km ²) for a 75% Probability of Exceedence
Alternate Title	AAFC_AUR_2013_POE_75
Abstract	The "Annual Unit Runoff (dam ³ /km ²) for a 75% Probability of Exceedence" dataset is a line data set that covers the extent of Canada. It shows the 75% Probability of exceedence annual unit runoff.
Purpose	The dataset provides unit runoff values for the 75% probability of exceedence across Canada.
Topic Category	Environment
Spatial Reference Type	Vector
Spatial Resolution	
Geographic Description	This specification is applicable within the extent of

	Canada.
Supplemental Information	None
Constraints	Data are subject to the Government of Canada Open Data Licence Agreement available at www.data.gc.ca .
Keywords	Thesaurus: Government of Canada Core Subject Thesaurus (http://www.thesaurus.gc.ca/recherche-search/thes-eng.html) Date: February 1, 2000 Keywords: hydrology, water management, water supply, watersheds, water resource management
Scope Identification	dataset
Feature Attribute Names	Contour

3.2.7. Annual Unit Runoff (dam^3/km^2) for a 80% Probability of Exceedence

Title	Annual Unit Runoff (dam^3/km^2) for a 80% Probability of Exceedence
Alternate Title	AAFC_AUR_2013_POE_80
Abstract	The "Annual Unit Runoff (dam^3/km^2) for a 80% Probability of Exceedence" dataset is a line data set that covers the extent of Canada. It shows the 80% Probability of exceedence annual unit runoff.
Purpose	The dataset provides unit runoff values for the 80% probability of exceedence across Canada.
Topic Category	Environment
Spatial Reference Type	Vector
Spatial Resolution	
Geographic Description	This specification is applicable within the extent of Canada.
Supplemental Information	None
Constraints	Data are subject to the Government of Canada Open Data Licence Agreement available at www.data.gc.ca .
Keywords	Thesaurus: Government of Canada Core Subject Thesaurus (http://www.thesaurus.gc.ca/recherche-search/thes-eng.html) Date: February 1, 2000 Keywords: hydrology, water management, water supply, watersheds, water resource management
Scope Identification	dataset
Feature Attribute Names	Contour

3.2.8. Annual Unit Runoff (dam³/km²) for a 90% Probability of Exceedence

Title	Annual Unit Runoff (dam ³ /km ²) for a 90% Probability of Exceedence
Alternate Title	AAFC_AUR_2013_POE_90
Abstract	The “Annual Unit Runoff (dam ³ /km ²) for a 90% Probability of Exceedence” dataset is a line data set that covers the extent of Canada. It shows the 90% Probability of exceedence annual unit runoff.
Purpose	The dataset provides unit runoff values for the 90% probability of exceedence across Canada.
Topic Category	Environment
Spatial Reference Type	Vector
Spatial Resolution	
Geographic Description	This specification is applicable within the extent of Canada.
Supplemental Information	None
Constraints	Data are subject to the Government of Canada Open Data Licence Agreement available at www.data.gc.ca .
Keywords	Thesaurus: Government of Canada Core Subject Thesaurus (http://www.thesaurus.gc.ca/recherche-search/thes-eng.html) Date: February 1, 2000 Keywords: hydrology, water management, water supply, watersheds, water resource management
Scope Identification	dataset
Feature Attribute Names	Contour

4. DATA CONTENT AND STRUCTURE

4.1. Feature-based application schema

<table border="1"> <thead> <tr> <th colspan="2">AAFC_AUR_2013_ACTIVE_STNS</th> </tr> </thead> <tbody> <tr><td>STATION_ID</td><td>NVARCHAR2 (50)</td></tr> <tr><td>STATION_NAME</td><td>NVARCHAR2 (50)</td></tr> <tr><td>GROSS_DRAIN_SQKM_AREA</td><td>NUMBER (38,8)</td></tr> <tr><td>POE_10_NUM</td><td>NUMBER (38,8)</td></tr> <tr><td>POE_25_NUM</td><td>NUMBER (38,8)</td></tr> <tr><td>POE_50_NUM</td><td>NUMBER (38,8)</td></tr> <tr><td>POE_70_NUM</td><td>NUMBER (38,8)</td></tr> <tr><td>POE_75_NUM</td><td>NUMBER (38,8)</td></tr> <tr><td>POE_80_NUM</td><td>NUMBER (38,8)</td></tr> <tr><td>POE_90_NUM</td><td>NUMBER (38,8)</td></tr> <tr><td>SOURCE_TEXT</td><td>NVARCHAR2 (50)</td></tr> <tr><td>LABEL_ID</td><td>NUMBER</td></tr> </tbody> </table>	AAFC_AUR_2013_ACTIVE_STNS		STATION_ID	NVARCHAR2 (50)	STATION_NAME	NVARCHAR2 (50)	GROSS_DRAIN_SQKM_AREA	NUMBER (38,8)	POE_10_NUM	NUMBER (38,8)	POE_25_NUM	NUMBER (38,8)	POE_50_NUM	NUMBER (38,8)	POE_70_NUM	NUMBER (38,8)	POE_75_NUM	NUMBER (38,8)	POE_80_NUM	NUMBER (38,8)	POE_90_NUM	NUMBER (38,8)	SOURCE_TEXT	NVARCHAR2 (50)	LABEL_ID	NUMBER	<table border="1"> <thead> <tr> <th colspan="2">AAFC_AUR_2013_POE_10</th> </tr> </thead> <tbody> <tr><td>CONTOUR_NUM</td><td>NUMBER</td></tr> </tbody> </table>	AAFC_AUR_2013_POE_10		CONTOUR_NUM	NUMBER	<table border="1"> <thead> <tr> <th colspan="2">AAFC_AUR_2013_POE_75</th> </tr> </thead> <tbody> <tr><td>CONTOUR_NUM</td><td>NUMBER</td></tr> </tbody> </table>	AAFC_AUR_2013_POE_75		CONTOUR_NUM	NUMBER
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4.2. Feature catalogue – AAFC Annual Unit Runoff in Canada - 2013

Title	AAFC Annual Unit Runoff in Canada - 2013
Scope	AAFC Annual Unit Runoff in Canada - 2013
Version Number	1.0
Version Date	April 29 th , 2013
Producer	Agriculture and Agri-Food Canada

System-generated attributes (for example, OBJECTID, Shape, Shape Length and Area) are not defined in the feature catalog.

4.2.1. Feature attributes

4.2.1.1. Contour

Name	Contour (CONTOUR_NUM)		
Definition	Annual unit runoff isopleth contour value (dam ³ /km ²).		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Integer		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.2. Station Identification

Name	Station Identification (STATION_ID)		
Definition	Water Survey of Canada hydrometric gauging station identification code.		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Integer		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.3. Station Name

Name	Station Name (STATION_NAME)		
Definition	Water Survey of Canada hydrometric gauging station name.		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Integer		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.4. Gross Drainage Area in Square Kilometers

Name	Gross Drainage Area in Square Kilometers (GROSS_DRAIN_SQKM_AREA)		
Definition	Gross or effective drainage area of the basin in square kilometers.		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Double		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.5. Annual Unit Runoff for a 90% Probability of Exceedence

Name	Annual Unit Runoff for a 90% Probability of Exceedence (POE_90_NUM)		
Definition	Value of Annual Unit Runoff (dam ³ /km ²) for a 90% Probability of Exceedence at gauging station		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Double		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.6. Annual Unit Runoff for a 80% Probability of Exceedence

Name	Annual Unit Runoff for a 80% Probability of Exceedence (POE_80_NUM)		
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Definition	Value of Annual Unit Runoff (dam^3/km^2) for a 80% Probability of Exceedence at gauging station		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Double		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.7. Annual Unit Runoff for a 75% Probability of Exceedence

Name	Annual Unit Runoff for a 75% Probability of Exceedence (POE_75_NUM)		
Definition	Value of Annual Unit Runoff (dam^3/km^2) for a 75% Probability of Exceedence at gauging station		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Double		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.8. Annual Unit Runoff for a 70% Probability of Exceedence

Name	Annual Unit Runoff for a 70% Probability of Exceedence (POE_70_NUM)		
Definition	Value of Annual Unit Runoff (dam^3/km^2) for a 70% Probability of Exceedence at gauging station		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Double		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.9. Annual Unit Runoff for a 50% Probability of Exceedence

Name	Annual Unit Runoff for a 50% Probability of Exceedence		
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	(POE_50_NUM)		
Definition	Value of Annual Unit Runoff (dam^3/km^2) for a 50% Probability of Exceedence at gauging station		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Double		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.10. Annual Unit Runoff for a 25% Probability of Exceedence

Name	Annual Unit Runoff for a 25% Probability of Exceedence (POE_25_NUM)		
Definition	Value of Annual Unit Runoff (dam^3/km^2) for a 25% Probability of Exceedence at gauging station		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Double		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.11. Annual Unit Runoff for a 10% Probability of Exceedence

Name	Annual Unit Runoff for a 10% Probability of Exceedence (POE_10_NUM)		
Definition	Value of Annual Unit Runoff (dam^3/km^2) for a 10% Probability of Exceedence at gauging station		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Double		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.12. Point Source

Name	Point Source (SOURCE_TEXT)		
Definition	Indicates whether the data was plotted at the outlet (WSC outlet) or the basin centroid (Centroid)		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	String		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

4.2.1.13. Label Id

Name	Label Id (LABEL_ID)		
Definition	Used to label points on hard copy maps in a published report (AUR Report Final.pdf).		
Aliases			
Producer	Agriculture and Agri-Food Canada		
Value Data Type	Integer		
Value Domain Type	0 (not enumerated)		
Value Domain			
	Feature Attribute Value		
	Label	Code	Definition

5. REFERENCE SYSTEM

5.1. Spatial reference system

Horizontal coordinate reference system: WGS 1984
 Map projection: Web Mercator Auxiliary Sphere; EPSG:3857

5.2. Temporal reference system

Gregorian calendar

6. DATA QUALITY

Measures not defined at this time

6.1. Completeness

6.2. Logical consistency

6.3. Positional accuracy

6.4. Temporal accuracy

6.5. Thematic accuracy

6.6. Lineage statement

Lineage Statement	Source data was compiled, analyzed and summarized into this product by AAFC staff. Please refer to "AUR Report Final.pdf" for detailed information.
Scope	AAFC Annual Unit Runoff in Canada - 2013

7. DATA CAPTURE

The unit runoff analysis relied on two major sources of data: Water Survey of Canada’s streamflow and gross drainage area records for hydrometric gauging stations across Canada and Agriculture and Agri-Food Canada’s effective drainage areas (for the agricultural extents of the Prairie region). All hydrometric gauging stations were screened to choose representative stations for inclusion in this study.

8. DATA MAINTENANCE

None planned.

9. PORTRAYAL

Not applicable.

10. DATA PRODUCT DELIVERY

Delivery medium information:

units of delivery: package

medium name: online via HTTP, online via direct access

Delivery format information:

11. METADATA

The metadata requirements follow the Government of Canada’s Treasury Board Standard on Geospatial Data (ISO 19115).