

Country Use Case of EO Use for SDG Indicator	
SDG Indicator/Sub- indicator	6.4.2Level of water stress : freshwater withdrawal as a proportion of available freshwater resources
Country or region	Canada
Status (please check)	X being used in official SDG Indicator reporting _ being verified or tested by country _ studying feasibility
Earth Observation Data Used and its links	In situ streamflow measurements See Human Activity and the Environment 2016: Freshwater in Canada https://www150.statcan.gc.ca/n1/pub/16-201-x/16-201-x2017000-eng.htm
Additional/ Other Data Used and its links	Physical flow accounts for water https://www150.statcan.gc.ca/n1/pub/16-509-x/2016001/27-eng.htm
Description of data access, processing, and analysis, including methodology that was developed, associated tools or applications, and how these are applied to compute SDG Indicator	The latest indicator is the ratio of surface freshwater water intake to water yield for August 2013 which use the ratio of August intake to the long-term minimum monthly water yield. Surface freshwater intake aggregates data from the Survey of Drinking Water Plants, 2013 and the Industrial Water Use Survey, 2013, with estimates of agricultural water use for 2013 based on the Agricultural Water Use Survey and the <i>Alberta Irrigation Information</i> report. Withdrawals from groundwater, groundwater under the influence of surface water and marine water sources are excluded. Data for water use by the oil and gas industry and households not supplied by a public water provider are also excluded.
	<b>Sources:</b> Statistics Canada, Environment, Energy and Transportation Statistics Division, 2017, special tabulation from the <i>Industrial Water Use Survey</i> , 2013; Survey of Drinking Water Plants, 2013; Agricultural Water Use Survey, 2010, 2012 and 2014; Alberta Agriculture and Rural Development, 2014, <i>Alberta Irrigation</i> <i>Information: Facts and Figures for the Year 2013</i> , Basin Water Management Branch; Environment Canada, 2015, <u>Water Survey of</u> <u>Canada, Archived Hydrometric Data (HYDAT)</u> , (accessed December 3, 2016); Spence, C., and A. Burke, 2008, "Estimates of Canadian Arctic Archipelago runoff from observed hydrometric data," <i>Journal of Hydrology</i> , Vol. 362, pp. 247-259.



EARTH OBSERVATIONS FOR SUSTAINABLE DEVELOPMENT GOALS

Work flow	Please show the work flow using a process flow diagram.
Lessons learned, any gaps, key issues and recommendations	This indicator is based on the System of Environmental-Economic Accounts (SEEA) Water Accounts.
Supporting material about this use case. Include links, publications, etc.	See Human Activity and the Environment 2016: Freshwater in Canada https://www150.statcan.gc.ca/n1/pub/16-201-x/16-201-x2017000-eng.htm Canada SDG Hub: https://www144.statcan.gc.ca/sdg-odd/index- eng.htm?HPA=1
Name(s) and email address of individual(s) involved in this effort. Please note the principal point(s) of contact (POCs).	POC : François Soulard, francois.soulard@canada.ca