



Computation of long-term annual renewable water resources (RWR) by country (in km³/year, average)

Canada

Internal RWR		
Precipitation (mm/year)	[1]	537
Area of the country (1000 ha)	[2]	998 467
Precipitation (km ³ /year)	[3]	5 362 =([1]/1000000)x([2]x10)
Surface water: produced internally	[4]	2 840
Groundwater: produced internally	[5]	370
Overlap between surface water and groundwater	[6]	360 (a)
Total internal renewable water resources	[7]	2 850 =([4]+[5]-[6]) (b)
External RWR		
	Total	Accounted
<u>Surface water</u>		
Surface water entering the country	52	
Inflow not submitted to treaties		[8] 52
Inflow submitted to treaties		0
Inflow secured through treaties		[9] 0
Flow in border rivers	0	[10] 0
Accounted inflow		[11] 52 =([8]+[9]+[10])
Surface water leaving the country	138.3 (c)	
Outflow not submitted to treaties		138.3
Outflow submitted to treaties		0
Outflow secured through treaties		[12] 0
Total external renewable surface water		[13] 52 =([11]-[12])
<u>Groundwater</u>		
Groundwater entering the country	0	[14] 0
Groundwater leaving the country	0	0
Total external renewable water resources		[15] 52 =([13]+[14])
Total RWR		
Surface water	[16]	2 892 =([4]+[13])
Groundwater	[17]	370 =([5]+[14])
Overlap between surface water and groundwater	[6]	360 (a)
Total renewable water resources	[18]	2 902 =([16]+[17]-[6])
Dependency ratio (%)	[19]	1.792 =100*([11]+[14])/([11]+[14]+[7])

Metadata:

(a) Approximately. Overlap between surface and groundwater equals nearly 100% of groundwater recharge; most of the groundwater is drained by the rivers and becomes the low flow of water courses. The hydraulic system is very active in the south of Canada.

(b) OECD gives a value of 3472 km³ (Source: OECD. 2014. Water: Freshwater abstractions. OECD Environment Statistics (database).<http://dx.doi.org/10.1787/data-00602-en>. Accessed on 20/01/2015)

(c) To USA. Outflow is 138.3 km³/yr with 71 km³/yr to Columbia, 67 to Alaska (Yukon) according to a national source (Morris 1970). It differs from the estimation of an American source that gives: 180 km³/yr go to Alaska from Canada