



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

## Canada

Surface water entering the country       52         Inflow submitted to treaties       0         Inflow scured through treaties       0         Flow in border rivers       0         Accounted inflow       111         52       100         Surface water leaving the country       0         Outflow submitted to treaties       138.3         Outflow submitted to treaties       0         Groundwater       113         Groundwater entering the country       0       0         Total external renewable water resources       15       52       =(14)	Internal RWR		
Note of the contry (not its)   Precipitation (km*)year)   Surface water: produced internally   (a)   Coverlap between surface water and groundwater   (b)   External RWR   Total internal renewable water resources   (7)   2 850   = 4(H5)H60   (b)   External RWR   Coverlap between surface water and groundwater   (b)   External RWR   Total internal renewable water resources   (7)   2 850   = 4(H5)H60   (b)   External RWR   Surface water   Surface water   (b)   (c)   Surface water leaving the country   (b)   (c)   (c)   Surface water leaving the country   (c)			
Surface water: produced internally       [4] 2840         Groundwater: produced internally       [5] 370         Overlap between surface water and groundwater       [6] 360       (a)         Total internal renewable water resources       [7] 2850       =[4]46]46       (b)         External RWR       Total       Accounted         Surface water       [8] 52       (a)       (a)         Inflow not submitted to treaties       [8] 0       (a)       (a)         Inflow submitted to treaties       [8] 0       (a)       (a)         Inflow submitted to treaties       [8] 0       (a)       (a)         Surface water leaving the country       [11] 52       (a)       (a)         Outflow not submitted to treaties       [12] 0       (a)       (a)         Outflow south burdet reaties       [13] 52       [11](12)       (a)         Outflow south tere to treaties       [13] 52       [11] (12)       (a)         Outflow south tere to treaties       [13] 52       [11] (12)       (a)         Outflow south tere to treaties       [13] 52       [11] (12)       (a)         Outflow south tere to treaties       [14] 0       (a)       (a)       (a)         Outflow south tet to treaties       [15] 52       [1		000 101	
Groundwater: produced internally       [5] 370         Overlap between surface water and groundwater       [8] 360 (a)         Total internal renewable water resources       [7] 2 850 - 141-151-161 (b)         External RWR       Total       Accounted         Surface water       [8] 52         Surface water       [8] 60         Surface water       [8] 0         Surface water entering the country       52         Inflow submitted to treaties       [8] 0         Inflow submitted to treaties       [8] 0         Inflow submitted to treaties       [9] 0         Flow in border rivers       0       [11] 52 = 181+194+100         Surface water leaving the country       138.3 (c)       [11] 52 = 181+194+100         Outflow not submitted to treaties       0       138.3 (c)         Outflow not submitted to treaties       [20] 0       [20] 0         Outflow secured through treaties       [20] 0       [20] 0         Outflow not submitted to treaties	Precipitation (km <sup>3</sup> /year)	[3] 5 362 =([1]/1000	000)x([2]x10)
Overlap between surface water and groundwater       Image: Construction of the control	Surface water: produced internally	[4] 2 840	
Total internal renewable water resources       Image: Transmitter of the second s	Groundwater: produced internally	[5] 370	
Total methal relevable water resources       Total       Accounted         External RWR       Total       Accounted         Surface water       52       Inflow not submitted to treaties       0         Inflow not submitted to treaties       90       0       0         Inflow submitted to treaties       90       0       0         Inflow submitted to treaties       90       0       0         Flow in border rivers       0       110       0       111       52       =189+191+1101         Surface water leaving the country       138.3       0       0       111       52       =189+191+1101         Surface water leaving the country       138.3       0       0       0       0       0         Outflow not submitted to treaties       138.3       0	Overlap between surface water and groundwater	[6] <b>360</b> (a)	
Surface water       181       52         Inflow submitted to treaties       191       0         Flow in border rivers       0       100       0         Accounted inflow       111       52       #81+191+101         Surface water leaving the country       138.3       (°)       0         Outflow submitted to treaties       0       138.3       (°)         Outflow submitted to treaties       0       0       0         Outflow submitted to treaties       138.3       (°)       0       0         Outflow submitted to treaties       138.3       (°)       0       0       0         Outflow submitted to treaties       138.3       (°)       0       0       0       0       0       0       0       0       0       0       0       0       0       138.3       (°)       114       0       0       0       0       0       0       0       0       0       0       0       0       0       144       0       0       0	Total internal renewable water resources	[7] 2 850 =[4]+[5]-[6	5] (b)
Surface water entering the country       52         Inflow submitted to treaties       0         Inflow scured through treaties       0         Flow in border rivers       0         Accounted inflow       111         52       100         Surface water leaving the country       0         Outflow submitted to treaties       138.3         Outflow submitted to treaties       0         Groundwater       113         Groundwater entering the country       0       0         Total external renewable water resources       15       52       =(14)	External RWR	Total	Accounted
Inflow not submitted to treaties       [8]       52         Inflow not submitted to treaties       0       0         Flow in border rivers       0       100         Accounted inflow       111       52       =(8)+(9)+(10)         Surface water leaving the country       138.3       (c)       111       52       =(8)+(9)+(10)         Surface water leaving the country       138.3       (c)       138.3       0	Surface water		
Inflow the use of the eaties       0         Inflow submitted to treaties       0         Inflow secured through treaties       0         Flow in border rivers       0         Accounted inflow       111         Surface water leaving the country       138.3         Outflow not submitted to treaties       138.3         Outflow not submitted to treaties       0         Outflow secured through treaties       138.3         Outflow secured through treaties       138.3         Outflow secured through treaties       138.3         Outflow secured through treaties       113         Outflow secured through treaties       113         Outflow secured through treaties       113         Groundwater       113         Groundwater entering the country       0         Ital external renewable water resources       114         O       0         Total external renewable water resources       115         Surface water       116       2 892         Groundwater       117       370         Overlap between surface water and groundwater       18       360       (a)         Total renewable water resources       118       2 902       =(16)+(17)-(6)	Surface water entering the country	52	
Inflow socured through treaties   Flow in border rivers   Accounted inflow     Surface water leaving the country   Outflow not submitted to treaties   Outflow not submitted to treaties   Outflow secured through treaties   Total external renewable surface water   Ital external renewable water resources   Ital external renewable water resources   Ital external renewable water and groundwater   Ital enewable water resources   Ital renewable water resources	Inflow not submitted to treaties		[8] 52
Introduct social description       0       [10]       0         Flow in border rivers       0       [11]       52       =6]+(9]+(10]         Accounted inflow       138.3       (a)       (11)       52       =6]+(9]+(10]         Surface water leaving the country       138.3       (a)       (a)       (a)       (a)         Outflow not submitted to treaties       0       (13)       (a)       (a)       (a)         Outflow submitted to treaties       (a)       0       (a)       (a)       (a)         Outflow secured through treaties       (a)       (a)       (a)       (a)       (a)         Total external renewable surface water       (a)       (a)       (a)       (a)       (a)         Groundwater       (a)       0       (a)       (a)       (a)       (a)       (a)         Groundwater leaving the country       0       (a)       (a)       (a)       (a)       (a)       (a)       (a)         Total external renewable water resources       (15)       52       =[13]+[14]       (a)	Inflow submitted to treaties		0
Accounted inflow [11]   Surface water leaving the country 138.3   Outflow not submitted to treaties 138.3   Outflow secured through treaties 12]   Outflow secured through treaties [12]   Outflow secured through treaties [13]   Total external renewable surface water [13]   Groundwater 0   Groundwater leaving the country 0   Ital external renewable water resources [15]   Total external renewable water resources [15]   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 [19]   2 902 =[16]+[17]-[6]	Inflow secured through treaties		[9] 0
Surface water leaving the country       138.3       (c)         Outflow not submitted to treaties       138.3       (c)         Outflow submitted to treaties       0       0         Outflow submitted to treaties       (12)       0         Total external renewable surface water       (13)       52       =(11)+(12)         Groundwater       (14)       0       (14)       0         Groundwater entering the country       0       0       0       0         Total external renewable water resources       (15)       52       =(13)+(14)         Total external renewable water resources       (15)       52       =(13)+(14)         Surface water       (16)       2.892       =(4)+(13)         Groundwater       (16)       2.892       =(4)+(13)         Groundwater       (17)       370       =(5)+(14)         Overlap between surface water and groundwater       (8)       360       (a)         Total renewable water resources       (16)       2.902       =(16)+(17)-(6)	Flow in border rivers	0	[10] 0
Sufface water 138.3   Outflow submitted to treaties 0   Outflow submitted to treaties 0   Outflow submitted to treaties 0   Outflow secured through treaties 113   Total external renewable surface water 113   Groundwater 0   Groundwater leaving the country 0   Groundwater leaving the country 0   Outflow submitted to treaties 0   Groundwater leaving the country 0   Ital external renewable water resources 113   Ital external renewable water and groundwater 113   Ital external renewable water resources 114   Overlap between surface water and groundwater 118   Ital renewable water resources 118   Ital external renewable water resources 118 <td>Accounted inflow</td> <td></td> <td>[11] 52 =[8]+[9]+[10]</td>	Accounted inflow		[11] 52 =[8]+[9]+[10]
Outflow not submitted to treaties 138.3   Outflow submitted to treaties 0   Outflow secured through treaties 1/2   O trial external renewable surface water 1/3   Groundwater 1/3   Groundwater entering the country 0   Ital external renewable water resources 0   Ital external renewable water resources 1/3   Ital external renewable water and groundwater 1/4   Ital external renewable water resources 1/3   Ital external renewable water and groundwater 1/3   Ital external renewable water resources 1/3   Ital external renewable water and groundwater 1/3   Ital external renewable water resources 1/3   Ital external renewable water and groundwater 1/3   Ital external renewable water resources 1/3   Ital external renewable water and groundwater 1/4   Ital external renewable water resources 1/4	Surface water leaving the country	138.3 <sup>(c)</sup>	
Outflow secured through treaties [12]   Outflow secured through treaties [13]   Total external renewable surface water [13]   Groundwater [14]   Groundwater entering the country 0   Ital external renewable water resources [15]   Total external renewable water resources [16]   Surface water [17]   Groundwater [17]   Ital external renewable water and groundwater [6]   360 (a)   Total renewable water resources [18]   2 902 =[16]+[17]-[6]			138.3
Outflow secured through treaties 112   Total external renewable surface water 113   Groundwater 113   Groundwater entering the country 0   114 0   Groundwater leaving the country 0   0 0   Total external renewable water resources 115   52 =[13]+[14]   Total external renewable water resources   115 52   Total external renewable water resources   116 2.892   2.892 =[4]+[13]   Groundwater [17   37.0 =[5]+[14]   Overlap between surface water and groundwater [6]   36.0 (a)   (18) 2.902   =[16]+[17]-[6]	Outflow submitted to treaties		0
Groundwater   Groundwater entering the country   0   Ital external renewable water resources   Ital 2 892   Ital renewable water resources   Ital external renewable water resources	Outflow secured through treaties		[12] 0
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 [16] 2 892 =[4]+[14]   Overlap between surface water and groundwater [6] 360 (a)   Total renewable water resources [18] 2 902 =[16]+[17]-[6]	Total external renewable surface water		[13] 52 =[11]-[12]
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 [16] 2 892 =[4]+[14]   Overlap between surface water and groundwater [6] 360 (a)   Total renewable water resources [18] 2 902 =[16]+[17]-[6]	Groundwater		
Groundwater leaving the country   0   15]   52   =[13]+[14]      0   16]   2892   =[4]+[13]   Groundwater   17]   370   =[5]+[14]   Overlap between surface water and groundwater   [6]   360   (a)   (b)   (b)   (b)   (c)		0	[14]
Total external renewable water resources       [15] 52 =[13]+[14]         Total RWR       [16] 2 892 =[4]+[13]         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]			
Total RWR       Surface water       Groundwater       0verlap between surface water and groundwater       [6]       360       (a)       Total renewable water resources	Groundwater leaving the country	0	0
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]	Total external renewable water resources		[15] 52 =[13]+[14]
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]	Total RWR		
Groundwater       [17] 370 =[5]+[14]         Overlap between surface water and groundwater       [6] 360 (a)         Total renewable water resources       [18] 2 902 =[16]+[17]-[6]			[16] 2 802 =[4]+[13]
Overlap between surface water and groundwater     [6] 360 (a)       Total renewable water resources     [18] 2 902 = [16]+[17]-[6]	Surrace water		
Total renewable water resources     [18] 2 902 = [16]+[17]-[6]	Groundwater		[17] <b>370</b> =[5]+[14]
	Overlap between surface water and groundwater		[6] <b>360</b> (a)
Dependency ratio (%) [19] 1.792 =100*([11]+[14]) //([11]+[14]+(7])	Total renewable water resources		[18] 2 902 =[16]+[17]-[6]
	Dependency ratio (%)		[19] <b>1.792</b> ]=100*([11]+[14]) /([11]+[14]+[7])

Metadata:

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