



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

India

Internal RWR		
Precipitation (mm/year)	[1]	1 083
Area of the country (1000 ha)	[2]	328 726
Precipitation (km ³ /year)	[3]	3 560 = $\frac{[1]}{1000000} \times [2] \times 10$
Surface water: produced internally	[4]	1 404 (a)
Groundwater: produced internally	[5]	432
Overlap between surface water and groundwater	[6]	390 (b)
Total internal renewable water resources	[7]	1 446 = $[4]+[5]-[6]$
External RWR		
	Total	Accounted
<u>Surface water</u>		
Surface water entering the country	635.2 (c)	
Inflow not submitted to treaties		[8] 635.2
Inflow submitted to treaties		[9] 0
Inflow secured through treaties		[10] 0
Flow in border rivers	0	[11] 0
Accounted inflow		[11] 635.2 = $[8]+[9]+[10]$
Surface water leaving the country	1 385 (d)	
Outflow not submitted to treaties		[12] 1 142 (e)
Outflow submitted to treaties		[12] 243
Outflow secured through treaties		[12] 170.3 (f)
Total external renewable surface water		[13] 464.9 = $[11]-[12]$
<u>Groundwater</u>		
Groundwater entering the country	0	[14] 0
Groundwater leaving the country	0	[14] 0
Total external renewable water resources		[15] 464.9 = $[13]+[14]$
Total RWR		
Surface water	[16]	1 869 = $[4]+[13]$
Groundwater	[17]	432 = $[5]+[14]$
Overlap between surface water and groundwater	[6]	390 (b)
Total renewable water resources	[18]	1 911 = $[16]+[17]-[6]$
Dependency ratio (%)	[19]	30.52 = $\frac{100 \times ([11]+[14])}{([11]+[14]+[7])}$

Metadata:

- (a) Estimated by difference between total discharge of rivers (2039.64) and total inflow to India (635.22).
 (b) Estimated that overlap between surface water and groundwater is about 90%
 (c) 210.2 from Nepal; 347.02 from China (181.62 Indus, 165.40 Brahmaputra); 78 from Bhutan (was before 90, but has been re-estimated: see water resources balance sheet Bhutan)
 (d) 20 to Myanmar; 243.58 (11.1E+232.48W) Indus to Pakistan, 1121.62 to Bangladesh (Brahmaputra 537.24, Ganges 525.02, Meghna 48.36; outside GBM to Chittagong 11)
 (e) 1121.62 to Bangladesh; 20 to Myanmar.
 (f) Western Indus tributaries for Pakistan. Total natural to Pakistan 243.58; reserved for India 73.31 (11.1 EI, 62.21 WI). Reserved for Pakistan: 243.58-73.31 equals 170.27