



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

India

Internal RWR	
Precipitation (mm/year)	[1] <input style="width: 100px;" type="text" value="1 083"/>
Area of the country (1000 ha)	[2] <input style="width: 100px;" type="text" value="328 726"/>
Precipitation (km ³ /year)	[3] <input style="width: 100px;" type="text" value="3 560"/> =([1]/1000000)x([2]x10)
Surface water: produced internally	[4] <input style="width: 100px;" type="text" value="1 404"/> (a)
Groundwater: produced internally	[5] <input style="width: 100px;" type="text" value="432"/>
Overlap between surface water and groundwater	[6] <input style="width: 100px;" type="text" value="390"/> (b)
Total internal renewable water resources	[7] <input style="width: 100px;" type="text" value="1 446"/> =([4]+[5]-[6])

External RWR	Total	Accounted
<u>Surface water</u>		
Surface water entering the country	<input style="width: 100px;" type="text" value="635.2"/> (c)	
Inflow not submitted to treaties		[8] <input style="width: 100px;" type="text" value="635.2"/>
Inflow submitted to treaties		<input style="width: 100px;" type="text" value="0"/>
Inflow secured through treaties		[9] <input style="width: 100px;" type="text" value="0"/>
Flow in border rivers	<input style="width: 100px;" type="text" value="0"/>	[10] <input style="width: 100px;" type="text" value="0"/>
Accounted inflow		[11] <input style="width: 100px;" type="text" value="635.2"/> =([8]+[9]+[10])
Surface water leaving the country	<input style="width: 100px;" type="text" value="1 385"/> (d)	
Outflow not submitted to treaties		<input style="width: 100px;" type="text" value="1 142"/> (e)
Outflow submitted to treaties		<input style="width: 100px;" type="text" value="243"/>
Outflow secured through treaties		[12] <input style="width: 100px;" type="text" value="170.3"/> (f)
Total external renewable surface water		[13] <input style="width: 100px;" type="text" value="464.9"/> =([11]-[12])
<u>Groundwater</u>		
Groundwater entering the country	<input style="width: 100px;" type="text" value="0"/>	[14] <input style="width: 100px;" type="text" value="0"/>
Groundwater leaving the country	<input style="width: 100px;" type="text" value="0"/>	<input style="width: 100px;" type="text" value="0"/>
Total external renewable water resources		[15] <input style="width: 100px;" type="text" value="464.9"/> =([13]+[14])

Total RWR	
Surface water	[16] <input style="width: 100px;" type="text" value="1 869"/> =([4]+[13])
Groundwater	[17] <input style="width: 100px;" type="text" value="432"/> =([5]+[14])
Overlap between surface water and groundwater	[6] <input style="width: 100px;" type="text" value="390"/> (b)
Total renewable water resources	[18] <input style="width: 100px;" type="text" value="1 911"/> =([16]+[17]-[6])
Dependency ratio (%)	[19] <input style="width: 100px;" type="text" value="30.52"/> =100*([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