



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

Sudan

Internal RWR		
Precipitation (mm/year)	[1] <input type="text" value="250"/> (a)	
Area of the country (1000 ha)	[2] <input type="text" value="187 936"/> (b)	
Precipitation (km ³ /year)	[3] <input type="text" value="469.8"/> =([1]/1000000)x([2]x10)	
Surface water: produced internally	[4] <input type="text" value="2"/>	
Groundwater: produced internally	[5] <input type="text" value="3"/>	
Overlap between surface water and groundwater	[6] <input type="text" value="1"/>	
Total internal renewable water resources	[7] <input type="text" value="4"/> =([4]+[5]-[6])	
External RWR		
	Total	Accounted
<u>Surface water</u>		
Surface water entering the country	<input type="text" value="99.3"/> (c)	
Inflow not submitted to treaties		[8] <input type="text" value="72.8"/>
Inflow submitted to treaties		<input type="text" value="26.5"/>
Inflow secured through treaties		[9] <input type="text" value="26.5"/> (d)
Flow in border rivers	<input type="text" value="0"/>	[10] <input type="text" value="0"/>
Accounted inflow		[11] <input type="text" value="99.3"/> =([8]+[9]+[10])
Surface water leaving the country	<input type="text" value="84"/> (e)	
Outflow not submitted to treaties		<input type="text" value="0"/>
Outflow submitted to treaties		<input type="text" value="84"/>
Outflow secured through treaties		[12] <input type="text" value="65.5"/> (f)
Total external renewable surface water		[13] <input type="text" value="33.8"/> =([11]-[12])
<u>Groundwater</u>		
Groundwater entering the country	<input type="text" value="0"/>	[14] <input type="text" value="0"/>
Groundwater leaving the country	<input type="text" value="1"/> (g)	<input type="text" value="1"/>
Total external renewable water resources		[15] <input type="text" value="33.8"/> =([13]+[14])
Total RWR		
Surface water		[16] <input type="text" value="35.8"/> =([4]+[13])
Groundwater		[17] <input type="text" value="3"/> =([5]+[14])
Overlap between surface water and groundwater		[6] <input type="text" value="1"/>
Total renewable water resources		[18] <input type="text" value="37.8"/> =([16]+[17]-[6])
Dependency ratio (%)		[19] <input type="text" value="96.13"/> =100*([11]+[14])/([11]+[14]+[7])

Metadata:

- (a) Estimation based on total precipitation for pre-2011 Sudan
 (b) The exact area still needs to be confirmed
 (c) From South Sudan 34; from Ethiopia 64.6 (Blue Nile 52.6; Atbara 4.37; Setit-Tekeze 7.63); from Eritrea 0.7
 (d) Considering that former Sudan had an obligation by treaty to provide 65.5 at the border with Egypt, AQUASTAT has calculated that of the 34 that South Sudan gives Sudan, 26.5 have to be secured by treaty. This is an interim calculation that neither represents AQUASTAT's position or recommendation, nor should it carry any political significance. Information will be updated/corrected once available from the countries.
 (e) Equal to: 4 (IRWR) + 34 (inflow from South Sudan) + 64.6 (inflow from Ethiopia) + 0.7 (inflow from Eritrea) - 19.3 (evaporation in southern swamps).
 (f) According to the 1957 agreement between Sudan and Egypt, 65.5 is secured to flow to Egypt.
 (g) Groundwater to Egypt to the Nubian aquifer.