



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

Senegal

Internal RWR		
Precipitation (mm/year)	[1]	686
Area of the country (1000 ha)	[2]	19 671
Precipitation (km ³ /year)	[3]	134.9 =([1]/1000000)x([2]x10)
Surface water: produced internally	[4]	23.8
Groundwater: produced internally	[5]	3.5 (a)
Overlap between surface water and groundwater	[6]	1.5 (b)
Total internal renewable water resources	[7]	25.8 =[4]+[5]-[6]
External RWR		
	Total	Accounted
<u>Surface water</u>		
Surface water entering the country	2.17 (c)	
Inflow not submitted to treaties		[8] 2.17
Inflow submitted to treaties		0
Inflow secured through treaties		[9] 0
Flow in border rivers	22 (d)	[10] 11
Accounted inflow		[11] 13.17 =[8]+[9]+[10]
Surface water leaving the country	5.4 (e)	
Outflow not submitted to treaties		5.4
Outflow submitted to treaties		0
Outflow secured through treaties		[12] 0
Total external renewable surface water		[13] 13.17 =[11]-[12]
<u>Groundwater</u>		
Groundwater entering the country	0	[14] 0
Groundwater leaving the country	0	0
Total external renewable water resources		[15] 13.17 =[13]+[14]
Total RWR		
Surface water		[16] 36.97 =[4]+[13]
Groundwater		[17] 3.5 =[5]+[14]
Overlap between surface water and groundwater		[6] 1.5 (b)
Total renewable water resources		[18] 38.97 =[16]+[17]-[6]
Dependency ratio (%)		[19] 33.8 =100*([11]+[14])/([11]+[14]+[7])

Metadata:

- (a) From PNUD/Ministere de l'hydraulique. 1994. Upper aquifer 1.5-2, intermediate aquifer 1-1.5, deep aquifer 0.5, total 3-4 --took average of 3.5
(b) Overlap is less than 100% of groundwater recharge; most of the groundwater is drained by the rivers (equivalent to the low flow of water courses), but Senegal has a semi-arid part where groundwater may evaporate.
(c) FROM: Mali: 22/2 (Senegal [border- MRT/SEN]); Guinea: 2.17 (High Gambia, Senegal R.)
(d) Senegal river border with Mauritania. Senegal is quite dependant from neighbouring countries with the shared Senegal river. Applied the 50% rule.
(e) TO: Guinea-Bissau: 0.4 (Tiangol Diangunia); Gambia: 5 (Gambia R.)