



Computation of long-term annual renewable water resources (RWR) by country (in km<sup>3</sup>/year, average)

## Qatar

Internal RWR		
Precipitation (mm/year)	[1] <input type="text" value="74"/> (a)	
Area of the country (1000 ha)	[2] <input type="text" value="1 161"/>	
Precipitation (km <sup>3</sup> /year)	[3] <input type="text" value="0."/> =([1]/1000000)x([2]x10)	
Surface water: produced internally	[4] <input type="text" value="0"/>	
Groundwater: produced internally	[5] <input type="text" value="0.056"/>	
Overlap between surface water and groundwater	[6] <input type="text" value="0"/> (b)	
<b>Total internal renewable water resources</b>	[7] <input type="text" value="0.056"/> =([4]+[5]-[6])	

External RWR	Total	Accounted
<b>Surface water</b>		
Surface water entering the country	<input type="text" value="0"/>	
Inflow not submitted to treaties		[8] <input type="text" value="0"/>
Inflow submitted to treaties		<input type="text" value="0"/>
Inflow secured through treaties		[9] <input type="text" value="0"/>
Flow in border rivers	<input type="text" value="0"/>	[10] <input type="text" value="0"/>
Accounted inflow		[11] <input type="text" value="0"/> =([8]+[9]+[10])
Surface water leaving the country	<input type="text" value="0"/>	
Outflow not submitted to treaties		<input type="text" value="0"/>
Outflow submitted to treaties		<input type="text" value="0"/>
Outflow secured through treaties		[12] <input type="text" value="0"/>
Total external renewable surface water		[13] <input type="text" value="0"/> =([11]-[12])
<b>Groundwater</b>		
Groundwater entering the country	<input type="text" value="0.002"/> (c)	[14] <input type="text" value="0.002"/>
Groundwater leaving the country	<input type="text" value="0"/>	<input type="text" value="0"/>
<b>Total external renewable water resources</b>		[15] <input type="text" value="0.002"/> =([13]+[14])

Total RWR		
Surface water	[16] <input type="text" value="0"/> =([4]+[13])	
Groundwater	[17] <input type="text" value="0.058"/> =([5]+[14])	
Overlap between surface water and groundwater	[6] <input type="text" value="0"/> (b)	
<b>Total renewable water resources</b>	[18] <input type="text" value="0.058"/> =([16]+[17]-[6])	
Dependency ratio (%)	[19] <input type="text" value="3.448"/> =100*([11]+[14])/([11]+[14]+[7])	

Metadata:

- (a) Abu Sukar, H.K. et al. 2007. Agro-hydro-meteorological data book for the State of Qatar -> average (1972-2005) 80.2 mm/y. IPCC 1961-90 -> 74 mm  
 (b) Overlap between surface water and groundwater is negligible.  
 (c) From Saudi Arabia