



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

## Russian Federation

Internal RWR		
Precipitation (mm/year)	[1]	460
Area of the country (1000 ha)	[2]	1 709 825
Precipitation (km <sup>3</sup> /year)	[3]	7 865 =([1]/1000000)x([2]x10)
Surface water: produced internally	[4]	4 036 (a)
Groundwater: produced internally	[5]	788
Overlap between surface water and groundwater	[6]	512 (b)
<b>Total internal renewable water resources</b>	[7]	4 312 =[4]+[5]-[6]
External RWR		
	Total	Accounted
<u>Surface water</u>		
Surface water entering the country	204.6	
Inflow not submitted to treaties		[8] 204.6 (c)
Inflow submitted to treaties		[9] 0
Inflow secured through treaties		[10] 8.845 (e)
Flow in border rivers	19.69 (d)	[11] 213.4 =[8]+[9]+[10]
Accounted inflow		
Surface water leaving the country	25.36	
Outflow not submitted to treaties		[12] 25.36 (f)
Outflow submitted to treaties		[12] 0
Outflow secured through treaties		[12] 0
Total external renewable surface water		[13] 213.4 =[11]-[12]
<u>Groundwater</u>		
Groundwater entering the country	0	[14] 0
Groundwater leaving the country	0	[14] 0
<b>Total external renewable water resources</b>		[15] 213.4 =[13]+[14]
Total RWR		
Surface water	[16]	4 249 =[4]+[13]
Groundwater	[17]	788 =[5]+[14]
Overlap between surface water and groundwater	[6]	512 (b)
<b>Total renewable water resources</b>	[18]	4 525 =[16]+[17]-[6]
Dependency ratio (%)	[19]	4.716 =100*([11]+[14])/([11]+[14]+[7])

Metadata:

- (a) Arctic Ocean: 3035, Pacific Ocean: 601, Caspian sea: 255, Black/Baltic Sea: 144.7.  
 (b) Overlap is considered to be around 2/3 of groundwater (GW) recharge; most GW is drained by rivers and becomes baseflow of water courses. Some GW flows out into the sea. Also a large part of the country is under ice. There is uncertainty on the flow of Siberian rivers.  
 (c) From KAZ: 38.0 (Ob). From MNG: 25.0 (Yenisey). From UKR: 3.9 (Don). From CHN: 119.04 (Suifen and Amur). From FIN: 16.0 (Neva). From LTU: 0.01 (Pregel). From POL: 2.0 (Pregel). From EST: 0.007. From LVA: 0.67 (Velikaya).  
 (d) Equal to 10.65 (IRWR from LTU, Nemunas) + 9.0 (from BLR to LTU) + 0.04 (from POL to LTU).  
 (e) Nemunas border river with LTU accounted for as follow: 50% of its flow - 1 (internal flow in RUS)  
 (f) To KAZ: 8.6 (Ural-Caspian), 0.6 (Tobol-Tongal); To BLR: 7.6 (Dnieper), 7.1 (Western Divina); To UKR: 0.2 (Desna branch of Dnieper), 1.2 (Donets); To EST: 0.063 (Peipus).