



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

## Ukraine

Internal RWR		
Precipitation (mm/year)	[1]	565
Area of the country (1000 ha)	[2]	60 355
Precipitation (km <sup>3</sup> /year)	[3]	341 =([1]/1000000)x([2]x10)
Surface water: produced internally	[4]	50.1 (a)
Groundwater: produced internally	[5]	22
Overlap between surface water and groundwater	[6]	17 (b)
<b>Total internal renewable water resources</b>	[7]	55.1 =[4]+[5]-[6]
External RWR		
	Total	Accounted
<u>Surface water</u>		
Surface water entering the country	36.13	
Inflow not submitted to treaties		[8] 36.13 (c)
Inflow submitted to treaties		0
Inflow secured through treaties		[9] 0
Flow in border rivers	168.1	[10] 84.05 (d)
Accounted inflow		[11] 120.2 =[8]+[9]+[10]
Surface water leaving the country	28.9	
Outflow not submitted to treaties		28.9 (e)
Outflow submitted to treaties		0
Outflow secured through treaties		[12] 0
Total external renewable surface water		[13] 120.2 =[11]-[12]
<u>Groundwater</u>		
Groundwater entering the country	0	[14] 0
Groundwater leaving the country		
<b>Total external renewable water resources</b>		[15] 120.2 =[13]+[14]
Total RWR		
Surface water		[16] 170.3 =[4]+[13]
Groundwater		[17] 22 =[5]+[14]
Overlap between surface water and groundwater		[6] 17 (b)
<b>Total renewable water resources</b>		[18] 175.3 =[16]+[17]-[6]
Dependency ratio (%)		[19] 68.57 =100*([11]+[14])/([11]+[14]+[7])

Metadata:

- (a) Dnieper: 20.4. Dniester: 9.2. Danube (Cisa + Prut): 9.4. Donets: 2.7. Western Bug + San: 1.9. Southern Bug: 3.4; Coastal: 3.1.  
 (b) Overlap is considered to be around 75-80 percent of groundwater (GW) recharge; most GW is drained by rivers and becomes baseflow of water courses.  
 (c) From BLR: 24.5 (= 31.9 total Dnieper minus 7.4 Pripyat flow already from UKR to BLR). From RUS: 0.2 (Desna, branch of Dnieper); From MDA: 10.12 (Nistru/Dniester), 0.11 (coastal rivers); From RUS: 1.2 (Donets).  
 (d) Danube border river with ROU.  
 (e) To MDA: 9.2 (Dniester); To RUS: 3.9 (Dnost); To BLR: 7.4 (Pripyat), 1.7 (Western Bug). To HUN: 6.5 (Cisa). To POL: 0.2 (San).