



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

Pakistan

| Internal RWR | | |
|---|--|---|
| Precipitation (mm/year) Area of the country (1000 ha) Precipitation (km³/year) | [1] 494 [2] 79 610 [3] 393.3 =([1]/100000) | x([2]x10) |
| Surface water: produced internally | [4] 47.4 | |
| Groundwater: produced internally | [5] 55 (a) | |
| Overlap between surface water and groundwater | [6] 47.4 (b) | |
| Total internal renewable water resources | [7] 55 =[4]+[5]-[6] | |
| External RWR | Total | Accounted |
| Surface water Surface water entering the country Inflow not submitted to treaties Inflow submitted to treaties Inflow secured through treaties Flow in border rivers Accounted inflow | (c) | $ \begin{bmatrix} 8 & 21.5 \\ & 243.6 \\ 9 & 170.3 \\ 10 & 0 \\ 11 & 191.8 \\ = [8]+[9]+[10] \end{bmatrix} $ |
| Surface water leaving the country Outflow not submitted to treaties Outflow submitted to treaties Outflow secured through treaties | 10.72 ^(f) | 10.72 0 [12] 0 |
| i otal external renewable surface water | | |
| Groundwater Groundwater entering the country | 0 | [14] 0 |
| Groundwater leaving the country | | |
| Total external renewable water resources | | [15] 191.8 =[13]+[14] |
| Total RWR | | |
| Surface water | | [16] 239.2 =[4]+[13] |
| Groundwater | | [17] 55 =[5]+[14] |
| Overlap between surface water and groundwater | | [6] 47.4 (b) |
| Total renewable water resources | | [18] 246.8 =[16]+[17]-[6] |
| Dependency ratio (%) | | [19] 77.71 =100*([11]+[14]) /([11]+[14]+[7]) |

Metadata:

Metadata: (a) Other sources give 50 or 61. (b) Estimate. Not all of the groundwater (GW) recharge becomes surface water, some gw flows directly into the sea. All surface water generated internally in Pakistan depends on GW, it is drained by the rivers and becomes the base flow of the water courses. (c) 5.5 from Afghanistan (Kabul to Indus); 243.58 from India (11.1 Eastern Indus tributaries and 232.48 Western Indus tributaries) (d) From India to Indus: 11.1 Eastern tributaries (Rabi, Beas and Sutlej) and 232.48 Western tributaries (e) Western tributaries coming from India and reserved under the Indus Water Treaty (1960) (f) To Afghanistan (Kunar): 10; to China: 0.718.