

**UNECE**

# The UNECE “water resources (C1)” template

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# UNECE template C1

## renewable freshwater resources

Time series data on the indicators for 1990-2013, Table C-1: Renewable freshwater resources: *(cc)*

		Unit	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008
1	Precipitation	million m <sup>3</sup>											
2	Actual evapotranspiration	million m <sup>3</sup>											
3	Internal flow (Row 1 - row 2)	million m <sup>3</sup>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
4	Inflow of surface and groundwaters from neighbouring countries	million m <sup>3</sup>											
5	Renewable freshwater resources (Row 3 + Row 4)	million m <sup>3</sup>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
6	Outflow of surface and groundwaters to neighbouring countries	million m <sup>3</sup>											
7	Outflow of surface and groundwaters to the sea	million m <sup>3</sup>											

## Precipitation (million m<sup>3</sup>)

- ☐ Any wet precipitation:  
→ rain, snow, hail, dew,...
- ☐ (Hydro-)Meteorological services!

## Actual evapotranspiration (million m<sup>3</sup>)

→ evaporation from any ground (land, water,...)  
PLUS  
→ transpiration of plants

- Under natural conditions!
- Excluding human activity (e.g. irrigation)!
- Calculation using formulas/models
- (Hydro-)Meteorological services!

**→ don't confuse with potential evapotranspiration!**

## Internal Flow (million m<sup>3</sup>)

= precipitation - actual evapotranspiration

→ water resources generated independently of neighbours

## External Inflow (million m<sup>3</sup>)

= Total of surface waters (rivers) + groundwater coming from neighbouring countries (territories)

→ water resources generated externally

! Boundary waters to be divided 50:50 between the riparian countries (except in case of international treaties) !

→ hydrological services

## Renewable freshwater resources (million m<sup>3</sup>)

= internal flow + inflow of surface and groundwater from  
neighbouring countries

## Outflow to neighbouring countries (million m<sup>3</sup>)

→ total of surface + groundwater

→ **actual** outflow!

→ outflow to neighbouring countries and to the sea to be calculated  
**separately**

## **Remark: Some weaknesses of this particular template (revision recommended)**

- ☐ 'time series' → Long-term annual average (LTAA) is missing!
- ☐ calendar year vs. hydrological year
- ☐ Term 'indicators' → statistics, parameters, variables

**Thank you for your attention!**

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