Comments from Public Consultation on ECV Requirements 13/01 – 13/03 2020 for:

# Anthropogenic water use

## ECV Product: Anthropogenic water use

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | Anthropogenic Water Use | | | | |
| **Definition** | Volume of water used by country, by sector – agricultural, industrial and domestic. | | | | |
| **Unit** | Volume of water used by country. 109m3/year | | | | |
| **Note** | AQUASTAT contains estimates of water use by county. | | | | |
| **Requirements** | | | | | |
| **Item needed** | **Unit** | **Metric** | **[1]** | **Value** | **Derivation and References and Standards** |
| **Horizontal Resolution** |  | By county | G | Country, plus major watersheds |  |
| B |  |  |
| T | country |  |
| **Vertical Resolution** | N/A |  | G |  |  |
| B |  |  |
| T |  |  |
| **Temporal Resolution** | time | Year, annual data | G | 1 |  |
| B | 1 |  |
| T | 1 |  |
| **Timeliness** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Required Measurement Uncertainty** | % | 2 standard deviations | G | 10 |  |
| B |  |  |
| T | 20 |  |
| **Stability** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Standards and References** |  | | | | |
| **Adaptation and Extremes** | | | | | |
|  | Relevant? (Yes/No) | Sugg. Req. sufficient? (Yes/No) | Explanation | | |
| **Adaptation[2]** |  |  |  | | |
| **Extremes[3]** |  |  |  | | |

[1]Goal (G); Breakthrough (B)(not mandatory, more as one possible); Threshold (T), for definitions see [Guidelines](http://tiny.cc/ecv-review)

[2] Is the ECV Product directly relevant to support Climate Adaptation?

[3] Can the ECV Product be used to monitor climate extremes or aspects of extremes?

### Comment 1

|  |  |
| --- | --- |
| Author: Andrew Ferrone | Email: pr.wmo.luxembourg@gmail.com |
| Luxembourg considers that "Anthropogenic water use" is also relevant for adaptation purposes because: Climate change will cause variations in precipitation, and this might change the water available for consumption. To adapt to these changes, more economical and efficient consumption will be necessary. The anthropogenic water consumption variable is therefore of importance for adaptation to climate change. Adapting to climate change means consuming water appropriately. (in each sector, agricultural, industrial and domestic) | |

### Comment 2

|  |  |
| --- | --- |
| Author: ECMWF | Email: ecresgcosreqs@gmail.com |
| See in table below | |

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| **Item needed** | **Unit** | **Metric** | **[1]** | **Value** | **Derivation and References and Standards** |
| **Horizontal Resolution** |  | By county | G | Country, plus major watersheds | Comment: country only too coarse for understanding and monitoring the environment. Must be done at a much finer scale - Goal to be by medium-size watershed - |
| B |  |  |
| T | country |  |
| **Vertical Resolution** | N/A |  | G |  |  |
| B |  |  |
| T |  |  |
| **Temporal Resolution** | time | Year, annual data | G | 1 | Comment: Goal should be monthly, as water use e.g. agriculture or from tourism varies greatly throughout the year |
| B | 1 |  |
| T | 1 |  |
| **Timeliness** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Required Measurement Uncertainty** | % | 2 standard deviations | G | 10 |  |
| B |  |  |
| T | 20 |  |
| **Stability** |  |  | G |  |  |
| B |  |  |
| T |  |  |
| **Standards and References** |  | | | | |
| **Adaptation and Extremes** | | | | | |
|  | Relevant? (Yes/No) | Sugg. Req. sufficient? (Yes/No) | Explanation | | |
| **Adaptation[2]** | Yes | Yes | Requirement sufficient only if done at sub-country level | | |
| **Extremes[3]** | Yes | Yes | Relevant for drought | | |