

Name:

Irrigation water productivity.

Definition:

It is the crop production obtained by the water used. Irrigation water is the water (in m³/ha) used to irrigate the crops on the farm.

Calculation method:

For the calculation of the indicator, water consumption and crop yield on each of the irrigation plots will be taken into account.

The value of this indicator shall be calculated as explained below:

$$\text{Indicator} = \frac{\sum_i \frac{CY_i}{WC_i} \times A_i}{A_T}$$

Where:

CY_i: Crop yield (kg/ha) on each plot

WC_i: Water consumption (m³/ha) on each plot

A_i: Area assigned to the crop / plot.

A_T: Total area considered (ha).

Interpretation:

The indicator reflects the production obtained using the irrigation water. Some crops use water more efficiently.

Information source:

Data obtained through a survey to farmers.

CY_i: crop yield (kg/ha) on each farm. *Data obtained through a survey to farmers.*

WC_i: Irrigation water consumption (m³/ha) on each plot. *Data obtained through a survey to farmers.*

A_i: Area assigned to the crop / plot. *Data obtained through a survey to farmers.*

A_T: Total area considered (ha). *Data obtained through a survey to farmers.*