

Name:

Crop yield per hectare

Definition:

Represent the amount of crop yield per area, and is expressed in (ton dry matter / ha) for each crop. The area taken into account for the performance of this indicator is the corresponding useful agricultural area (UAA).

Calculation method:

The value of this indicator will be calculated as a sum of the crop yield of the plots:

$$\text{Indicator} = \sum A_i * CY_i * C_i / A_T$$

Where:

A_i : Area assigned to the plot (ha)

CY_i : Crop yield (T) of each plot

C_i : Crop dry matter (%)

A_T : Total area considered (ha)

Interpretación:

The productive potential depends on the chosen crops and the management of the farm. In addition there are several factors that influence performance, such as climatology, crop management (variety, fertilization, sanitary protection), etc.

In order to mitigate the effect of crops harvested in green (with much production but lower economic value per kilogram), data are normalized using dry matter production.

Information source:

Data obtained through a survey to farmers

A_i : Area for the crop i (ha). It is the surface of each plot.

A_T : Total area considered (ha). It is the sum of the analysed plots.

CY : Crop yield (t) of each plot.

C_i : Crop dry matter (%)