

Name:

Yield

Definition:

It means the amount of crop yield in tonnes per hectare, and it is expressed in reference to the potential yield of each crop. The total area considered is the utilised agricultural area (UAA).

Method of calculation:

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

$$\text{Indicator} = \frac{\sum (A_i * CY_i * 100 / CY_p)}{A_T}$$

Where:

A_i : Area assigned to the plot (ha).

CY_i : Crop yield of each plot (t/ha or kg/ha).

CY_p : Potential crop yield (t/ha or kg/ha).

A_T : Total area considered (ha).

Interpretation:

The productive potential depends on climate, location and soil type. Also it depends on the crop type and on management factors (related to variety, fertilization, sanitary protection, etc.). Besides it depends on the farm management practices.

The closer we get to the potential, the better the value of the indicator

Information source:

Data obtained in a farmers survey.

A_i : Crop area (ha). It is the area assigned to the crop/ plot.

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

CY_i : Crop yield of each plot (t/ha or kg/ha).

CY_p : Potential crop yield (t/ha or kg/ha).