Dataset Information:

Title	**Agri-environmental indicators: Fertilizers**
Abstract	This "Agri-environmental indicators: Fertilizers" domain provides the ratio between the totals by nutrient of agricultural use of chemical or mineral fertilizers, reported in the FAOSTAT domain "Inputs/Fertilizers by Nutrient" for nitrogen (N), phosphorus (expressed as P_2O_5) and potassium (expressed as K_2O), the area of cropland reported in the FAOSTAT domain "Inputs/Land Use", the value of agricultural production reported in the FAOSTAT domain "Production/Value of Agricultural Production", and population reported in the FAOSTAT domain "Population and Employment/Population". The ratios are provided at country level, as well as for regional and global aggregations.
Supplemental	FAOSTAT Agri-environmental indicators are calculated by FAO and may not coincide with data reported by member countries to relevant international processes. They are intended primarily as a useful international reference.
International Standards	For information about compliance with the System of Environmental-Economic Accounting (SEEA) and with the Framework for the Development of Environmental Statistics (FDES 2013), see the corresponding notes in the documentation of the two source domains: Fertilizers by Nutrient and Land Use.
Creation Date	2011
Last Update	2022
Data Type	Agri-environmental indicators
Category	Agriculture; Environment
Time Period	1961 - 2020
Periodicity	Annual
Geographical Coverage	World
Spatial Unit	Country
Language	Multilingual (EN, FR, ES)

Methodology and Quality Information:

Methods

The indicator *Use per area of cropland* is calculated as:

$$U_{(i,C,Y)} = \frac{F_{(i,c,y)}}{Area_{(c,y)}}$$

Where:

$U_{(i,c,y)}$ Use per area of cropland of fertilizer nutrient *i* in country *c* and year *y* (in kg/ha)

$F_{(i,c,y)}$ Total agricultural use of fertilizer nutrient *i* in country c and year y (in tonnes)

$Area_{(C,Y)}$ Cropland area (corresponding to the sum of arable land and permanent crops) in country *c* and year *y* (in 1 000 ha)

i =   Nutrient: nitrogen (N), phosphorus (expressed as P_2O_5) or potassium (expressed as K_2O).

The indicator *Use per capita* is calculated as:

$$U_{(i,C,Y)} = \frac{F_{(i,c,y)}}{Population_{(c,y)}}$$

Where:

$U_{(i,c,y)}$ Use per capita of fertilizer nutrient *i* in country *c* and year *y* (in kg/capita)

$F_{(i,c,y)}$ Total agricultural use of fertilizer nutrient *i* in country c and year y (in tonnes)

$Population_{(C,Y)}$ Population in country *c* and year *y* (in 1 000 persons)

i =   Nutrient: nitrogen (N), phosphorus (expressed as P_2O_5) or potassium (expressed as K_2O).

The indicator *Use per value of agricultural production* is calculated as:

$$U_{(i,C,Y)} = \frac{F_{(i,c,y)}}{Value\ of\ agricultural\ production_{(c,y)}}$$

Where:

$U_{(i,c,y)}$ Use per value of agricultural production of fertilizer nutrient *i* in country *c* and year *y* (in kg/1000 Int. $)

$F_{(i,c,y)}$ Total agricultural use of fertilizer nutrient *i* in country c and year y (in tonnes)

$Value\ of\ agricultural\ production_{(C,Y)}$ Value of agricultural production in country *c* and year *y* (in 1 000 Int. $)

i =   Nutrient: nitrogen (N), phosphorus (expressed as P_2O_5) or potassium (expressed as K_2O).

Data sources

Data used in the calculation of this agro-environmental indicator are sourced from the FAOSTAT Inputs domains "Fertilizers by Nutrient" , "Land Use", Population and Value of agricultural production. Trends in the derived agro-environmental indicator are thus directly associated with the trends of the underlying data sources.

For the aggregations (regions and special groups), only contries with data for both agricultural use (numerator) and cropland area (denominator) are included in the calculation.

Data Collection Method	Computed data.

Useful links	Fertilizers by Nutrient:	http://www.fao.org/faostat/en/#data/RFN
	Land Use:	http://www.fao.org/faostat/en/#data/RL

Distribution Information:

Owner	FAO
Provider	FAO
Source	FAO
Copyright Policy	FAOSTAT is part of the FAO corporate statistical databases under FAO Open Data Licensing Policy. Terms of use are available at: http://www.fao.org/contact-us/terms/db-terms-of-use/en.
Citation	FAO. 2022. FAOSTAT: Fertilizers indicators. (License: CC BY-NC-SA 3.0 IGO). In: FAO.org [online]. Cited [insert date that the dataset was accessed in the following format: DD-MM-YEAR]. Available at: http://www.fao.org/faostat/en/#data/EF.
Acknowledgments	FAOSTAT Agri-Environmental Indicators domains are developed and maintained by the Environment Statistics Team, FAO Statistics Division (ESS), with Regular Programme Funding under Strategic Objective 2 and Objective 6.

Statistical Database Terms of Use