
Dataset Information:

Title	Agri-environmental indicators—Pesticides
Abstract	The Agri-environmental Indicators—Pesticides domain provides information on the agricultural use of total active ingredients in pesticides per area of cropland, per value of agricultural production, and per capita. Data for the indicators “Use per area of cropland”, are available at country level, with regional and global aggregations and for the period 1990 to 2020.
Supplemental	Data in FAOSTAT Agri-environmental Indicators—Pesticides are estimated by FAO and may not coincide with data reported by member countries to relevant international processes. They are intended primarily as an analytical tool and a useful international reference.
International Standards	The indicator <i>Use per area of cropland</i> is computed with FAOSTAT data that are compliant with the System of Environmental-Economic Accounting Central Framework (SEEA CF), the System of Environmental-Economic Accounting for Agriculture Forestry and Fisheries (SEEA AFF), and the Framework for the Development of Environmental Statistics (FDES 2013). See metadata for Inputs Pesticides Use and Land Use .
Creation Date	2011
Last Update	2022
Data Type	Agri-environmental indicators
Category	Agriculture; Environment
Time Period	1990 – 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:

$$U_{(C,Y)} = \frac{PT_{(C,Y)}}{Area_{(C,Y)}}$$

Where:

$U_{(C,Y)}$ Use per area of cropland in country C and year Y (in kg/ha)

$PT_{(C,Y)}$ Pesticides (in total active ingredients) 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)

The indicator *Use per capita* is calculated as:

$$U_{(C,Y)} = \frac{PT_{(C,Y)}}{POP_{(C,Y)}}$$

Where:

$U_{(C,Y)}$ Use per capita in country *C* and year *Y* (in kg/ha)

$PT_{(C,Y)}$ Pesticides (in total active ingredients) in country *C* and year *Y* (in tonnes)

$POP_{(C,Y)}$ Estimated and projected population in country *C* and year *Y*

The indicator *Use per value AP (Agricultural Production)* is calculated as:

$$U_{(C,Y)} = \frac{PT_{(C,Y)}}{VAP_{(C,Y)}}$$

Where:

$U_{(C,Y)}$ Use per capita in country *C* and year *Y* (in kg/ha)

$PT_{(C,Y)}$ Pesticides (in total active ingredients) in country *C* and year *Y* (in tonnes)

$VAP_{(C,Y)}$ Gross Production Value (constant 2014-2016 thousand I\$) of crop and livestock products in country *C* and year *Y*

Pesticides (total) is the sum of active ingredients in the following categories of pesticides: Fungicides & Bactericides, Herbicides, Insecticides, Plant Growth Regulators, Seed Treatment Fungicides, Seed Treatment Insecticides, Mineral Oils, Rodenticides, and Disinfectants and Other pesticides, *nes* (not elsewhere specified).

Data sources

Data used in the calculations of this agro-environmental indicator are sourced from other FAOSTAT domains. Namely, the domain [Inputs – Pesticides Use](#) (RP) is the source of information used as nominator for the indicators. Cropland area values that are used as denominator in calculations for the indicator Use per area of cropland are derived from the domain [Inputs - Land Use](#) (RL). Population values are used in the denominator in calculations for the indicator Use pe capita are derived from the domain [Population and Employment – Annual](#). Value of agricultural production values used in the denominator in calculations for the indicator Use per value AP are derived from the domain [Production – Value of Agricultural Production](#).

Note

Data for the following countries are currently not displayed for the indicator Use per area of cropland because quality checks are being conducted on their data series: Costa Rica, Barbados, Bahamas, Malta, Bermuda, and Faroe Islands.

Data for the following countries are currently not displayed for the indicator Use per capita because quality checks are being conducted on their data series: Argentina, Belize, and Uruguay.

Data for the following countries are currently not displayed for the indicator Use per capita because quality checks are being conducted on their data series: Barbados, Bahamas, Maldives, and China, Macao SAR.

Data Collection Method Computed

Completeness 100%

Useful links <http://www.fao.org/faostat/en/#data/RP>
<http://www.fao.org/faostat/en/#data/RL>
<https://www.fao.org/faostat/en/#data/QV>
<https://www.fao.org/faostat/en/#data/OA>

Distribution Information:

Owner FAO

Provider FAO

Source FAO

Copyright Policy FAOSTAT is part of the FAO corporate statistical databases in scope of the 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, Agri-environmental Indicators / Pesticides. Available at <http://www.fao.org/faostat/en/#data/EP>

Acknowledgements The FAOSTAT Pesticides Use Domain is developed and maintained by the Environmental Statistics Team, FAO Statistics Division (ESS), with Regular Program Funding. We are thankful to specialized staff in the countries for regular data provision and helpful comments, which improve the quality of our data products.