

FAOSTAT Data Processes for Environmental Statistics

UN Expert Group on Environment Statistics

New York

May 21-23 2019



Food and Agriculture Organization
of the United Nations

Outline



- ***Agri-environment Statistics***
- ***Analytical Statistics and Indicators***
- ***Climate Change Statistics***

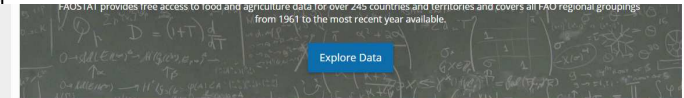


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FAOSTAT Core Agri-Environmental Statistics

Annual Data Collection, Analysis and Dissemination

 Food of the World		 Food and Agriculture Organization of the United Nations		Reference Years: 2009-2014
<p align="center">Questionnaire on Agricultural Resources Land use and Irrigation</p>				
<p align="center">National Reporting Office and Contact name</p>				
Purpose of the questionnaire This Fertilizer Questionnaire is used to collect data on fertilizer use and to forecast future requirements. Please complete or update the questionnaire as soon as possible.	Reporter name: Title: Administration and Office: Address: City: Country: Tel: Fax: E-mail: http://	Reporter name: Title: Administration and Office: Address: City: Country: Tel: Fax: E-mail: http://	• The Land and Irrigation Questionnaire has three major sections: Land use and Irrigation, Land use - plantations and Metadata. • We have included detailed concepts and definitions of the land use categories in the Explanatory Notes sheet. • Please include notes on any deviation from the concepts and definitions regarding the specific data requested. • If your organization is not responsible for the data collection of one or more variables, we kindly ask you to indicate the contact detail of the organization responsible in the section "Land use - contact details" • If you have any query regarding the questionnaire please contact: Mr Francesco Tubiello tel: (+39) 06 5705 2169 e-mail: Francesco.Tubiello@fao.org http://www.fao.org/statistics/en/	• The Pesticides and Seed treatments section includes the risk of double counting. • Data should relate to the agricultural sector. Please note that the questionnaire includes: Section 1 - data on agricultural land Section 2 - if the data are not available, please indicate the reason Section 3 - metadata Annex 1 - it includes the Convention on Biological Diversity
Structure This questionnaire is divided into three introductory sections, two data reporting sections and two supplementary information sections. We kindly ask you to provide a reply by 02/Feb/2015	• If you have any query regarding the questionnaire please contact: Mr Francesco Tubiello tel: (+39) 06 5705 2169 e-mail: Francesco.Tubiello@fao.org http://www.fao.org/statistics/en/	We kindly ask you to provide a reply by 02/Feb/2015		
<p align="center">We kindly ask you to provide a reply by 02/Feb/2015</p>				
<p align="center">Cover page Land use and Irrigation Land Use - plantations Land use - contact details ...</p>				



Bulk Download
All FAOSTAT Data 830 MB
Updated on May 12, 2017

Database Updates
Credit to Agriculture (investment) May 12, 2017
Producer Prices - Annual (Prices) April 27, 2017 Minor Revision
Producer Prices - Monthly (Prices) April 21, 2017

FAO Statistical Yearbooks
The FAO Statistical Yearbook provides a selection of indicators on food and agriculture by country. The first part of the book includes thematic spreads with data visualizations: graphs, charts, and maps with basic text. The second part has country-level tables for a selected number of indicators.

Tweets by @FAOstatistics
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A plague of armyworms is marching across Africa, devastating crops, and causing new territory at an alarming rate bit.ly/2qN3iKf

the guardian
Armyworms: The hungry caterpillar threaten...
A plague of armyworms is marching across Africa...

- Regulated by FAO Constitution –Statistics a core pillar of FAO;
- Countries provide data relevant to food and agriculture via national focal points (NSOs; Min Ag; Other);
- FAO collects, analyses and disseminates national statistics in support of evidence-based decision making

Joint FAOSTAT Questionnaires

Land use, irrigation and agricultural practices	Based on FAO Land Use classification and the Census definitions of relevant irrigation and agriculture activities
Fertilizers	Collects data on mineral and chemical fertilizers, organic fertilizers, by main nutrient (N, P, K) and by product.
Pesticides	Collects data on chemical pesticides used in agriculture, by main pesticide family (herbicides, fungicides, etc.) and by product in active ingredient



National Focal Points

- ***National Statistical Office***
- ***Ministry of Agriculture***
- ***Specialized Agency***

<http://www.fao.org/economic/ess/ess-home/questionnaires/hu/>



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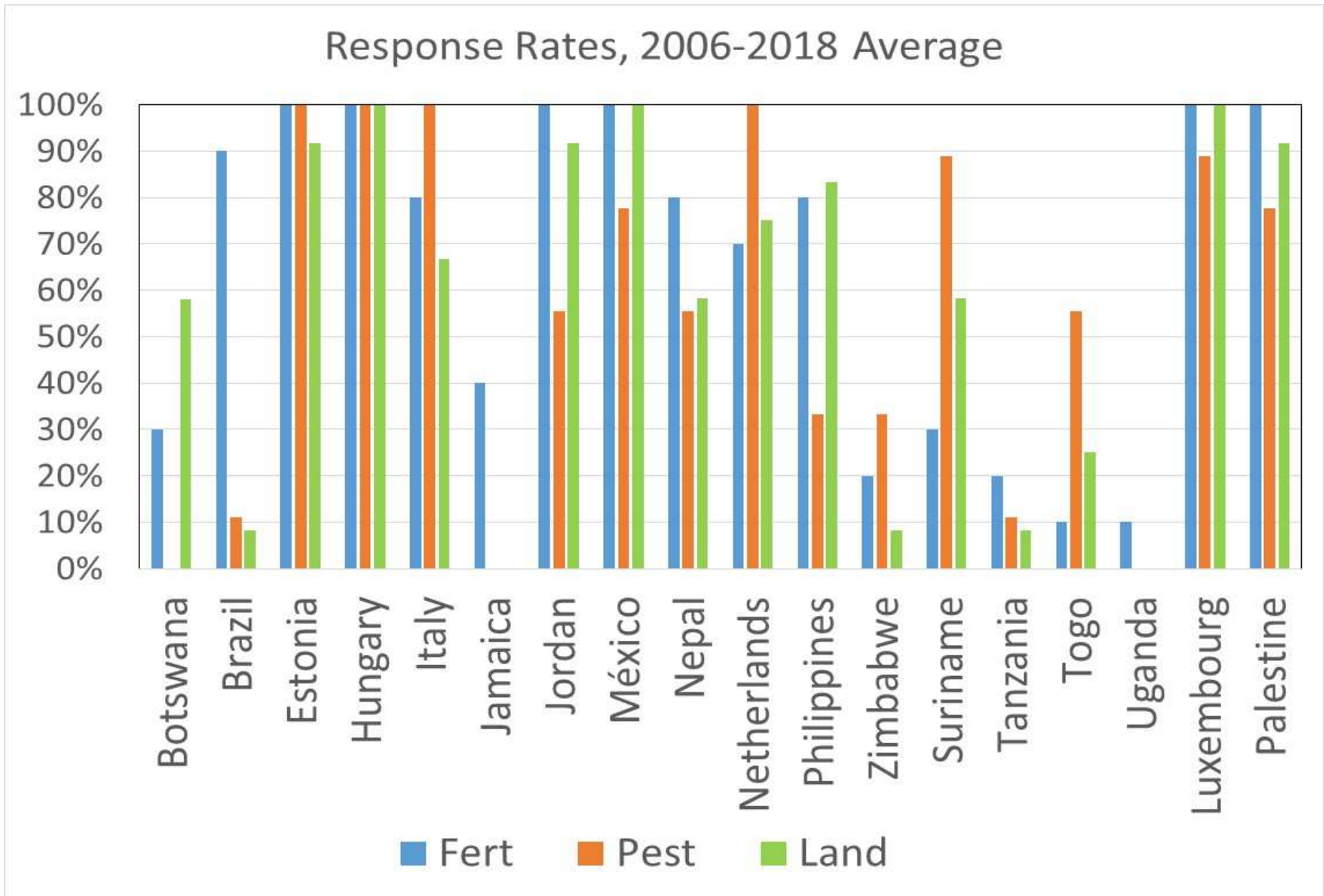
FAOSTAT Annual Cycle

Phase	Jan-May	Jul-Aug	Sep-Dec
Collection			
Analysis			
Dissemination			



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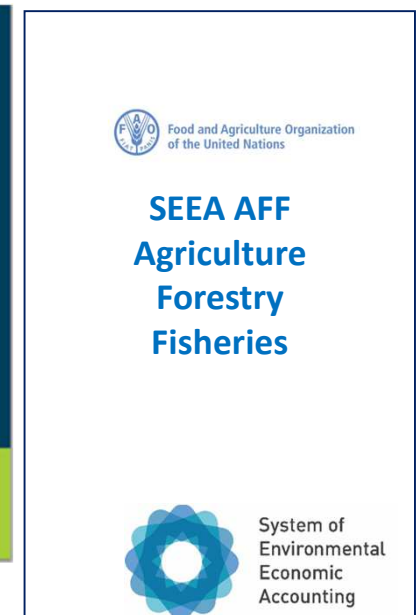
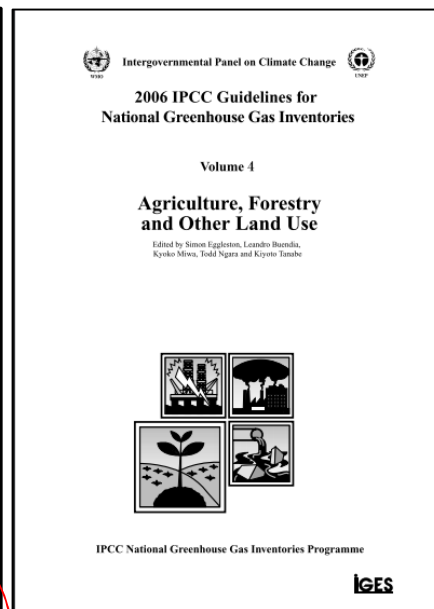
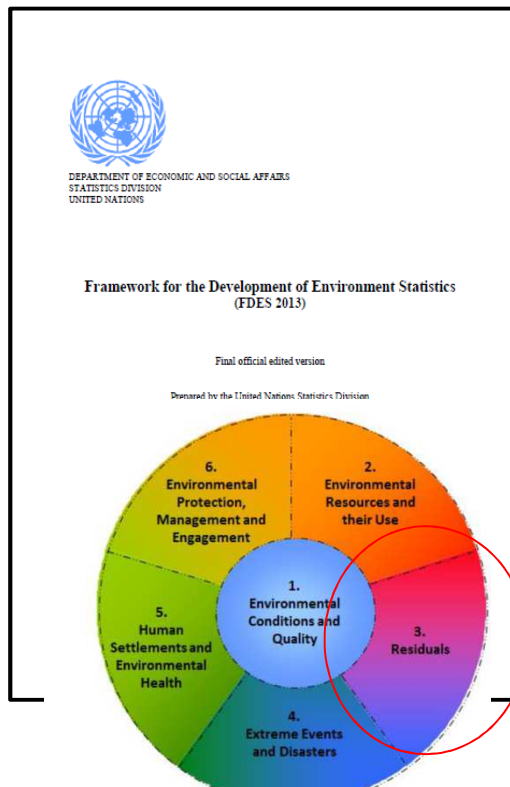
Results



FAOSTAT Analytical Environment Statistics

supporting SDG, Climate Change processes

- Reference global data products in support of national analysis and international Reporting (SDGs, UNFCCC);
- Estimates and Indicators are based on FAO core statistics and aligned with International Standards



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FAOSTAT Agri-Environmental Indicators

Livestock Patterns

The Livestock Patterns domain of the FAOSTAT Agri-Environmental Indicators contains data on livestock numbers, shares of major livestock species and... [Show More](#)

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↓ Bulk Downloads

All Data	940 KB
All Data Normalized	2.86 MB
All Area Groups	152 KB
Africa	202 KB
Americas	167 KB
Asia	190 KB
Europe	143 KB
Oceania	44 KB

Last Update
July 6, 2017

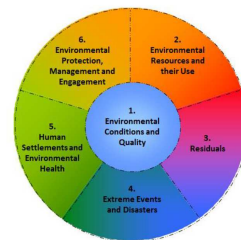
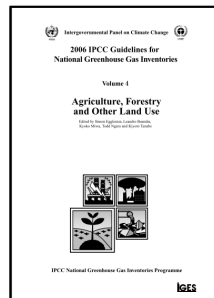
Related Documents

[README_Methodological_Note](#)

[Definitions and standa...](#)

[Metadata](#)

• Air and Climate	% Ag. NH3	1980-2009
• Energy	Bioenergy, Ag. Use	1971-2009
• Soil	% C, degrad., erosion	1991 & 2008
• Water	% ag. withdrawals	1961-2010
• Soil N Balance, Rates	Kg/ha on cropland	(1961-2017)
• Pesticides Rates	Kg/ha on cropland	1990-2017
• Livestock Manure	Kg N applied ag land	1961-2017
• Land Use Shares	Share over land area	1961-2017
• Land Cover	ha	1990-2017
• Climate Change	GHG, Temp Change	1961-2017



EUROSTAT/OECD/FAO AEI, 2011



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Coming in 2019: Data collection on 2.4.1 on sustainable agriculture

No.	Theme	Sub-indicators
1	Land productivity	Farm output value per hectare
2	Profitability	Net farm income
3	Resilience	Risk mitigation mechanisms
4	Soil health	Prevalence of soil degradation
5	Water use	Variation in water availability
6	Fertilizer risk	Management of fertilizers
7	Pesticide risk	Management of pesticides
8	Biodiversity	Use of biodiversity-supportive practices
9	Decent employment	Wage rate in agriculture
10	Food security	Food insecurity experience scale (FIES)
11	Land tenure	Secure tenure rights to land

Actions needed to improve data flow

- FAO and countries can compare and update information on Focal Points more regularly
- FAO and countries can work together on provision of capacity and training for facilitation of data production through the relevant methodologies



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Thank You !

Francesco N. Tubiello
Team Leader, Environment
Statistics Division, FAO

francesco.tubiello@fao.org

<http://www.fao.org/economic/ess/environment/en/>



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