



Food and Agriculture Organization
of the United Nations



>> FAO Statistics Division

Handwritten notes on a piece of paper, including a table with columns and rows of data.

Interests	
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2/31	

Source: FAO, 2020

FAO agri-environmental data collection and progress on SDG 2.4.1

UN EGES Annual Meeting –New York and Worldwide, November 17, 2020



Annual Data Collection, Analysis and Dissemination

- Regulated by FAO Constitution:

Article I

Functions of the Organization

1. The Organization shall collect, analyse, interpret and disseminate information relating to nutrition, food and agriculture.

In this Constitution, the term "agriculture" and its derivatives include fisheries, marine products, forestry and primary forestry products.

- Statistics are a core pillar of FAO Mandate
- Member States provide data relevant to food and agriculture via national focal points (NSOs; Min Ag; Other)
- Support to evidence-based decision making

Annual Data Collection, Analysis and Dissemination

Food and Agriculture Organization of the United Nations

QUESTIONNAIRE ON LAND USE, IRRIGATION AND AGRICULTURAL PRACTICES

Food and Agriculture Organization of the United Nations

QUESTIONNAIRE ON FERTILIZERS

Food and Agriculture Organization of the United Nations

QUESTIONNAIRE ON PESTICIDES USE

Country: country Reference: calendar years from from to to
Unit of measurement: tonnes (t)

Purpose of the questionnaire

The Pesticides Use questionnaire is designed to collect data on pesticides use in the agricultural sector for crops, seeds and forestry. It covers major pesticide types (Insecticides, Mineral Oils, Herbicides, Fungicides, Plant growth regulators and Rodenticides) and relevant chemical groups (Organo-phosphates, Phenoxy hormone products, Carbamates, etc.). Data are requested in quantity of active ingredients. The data are disseminated in FAOSTAT at <http://www.fao.org/faostat/en/#data/RP>.

Please complete or update the contact details of the national focal point responsible for this questionnaire in your country.

National Focal Point	
Name	
Title	
Administration and Office	
Address	
City	
Email	
Tel	
Fax	
Web site address	

Structure

This questionnaire is composed of:
Three introductory sections (Cover, Instructions and Definitions);
Two data reporting sections (1. Pesticides Data, 2. Additional Information); and
Two supplementary information sections (3. Metadata, and 4. Feedback).

Food and Agriculture Organization of the United Nations

About FAO | In Action | Countries | Themes | Media | Publications | Statistics | Partnerships

FAOSTAT

Data | Selected Indicators | Compare Data | Definitions and Standards | FAQ

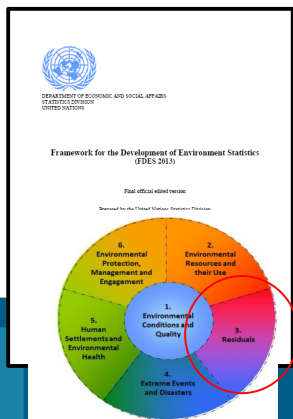
Food and agriculture data

FAOSTAT provides free access to food and agriculture data for over 245 countries and territories and covers all FAO regional groupings from 1961 to the most recent year available.

[Explore Data](#)

Bulk Download
All FAOSTAT Data 886 MB
Updated on Nov 15, 2019

Database description
Includes basic information on datasets and links to individual bulk download files.



Intergovernmental Panel on Climate Change

2006 IPCC Guidelines for National Greenhouse Gas Inventories

Volume 4
Agriculture, Forestry and Other Land Use

World Bank, European Commission, Food and Agriculture Organization of the United Nations

IPCC National Greenhouse Gas Inventories Programme

System of Environmental-Economic Accounting 2012

Central Framework

System of Environmental-Economic Accounting for Agriculture, Forestry and Fisheries

SEEA AFF

Land Use, Irrigation and Agricultural practices

Pesticides Use and Trade

Mineral and Chemical Fertilizers

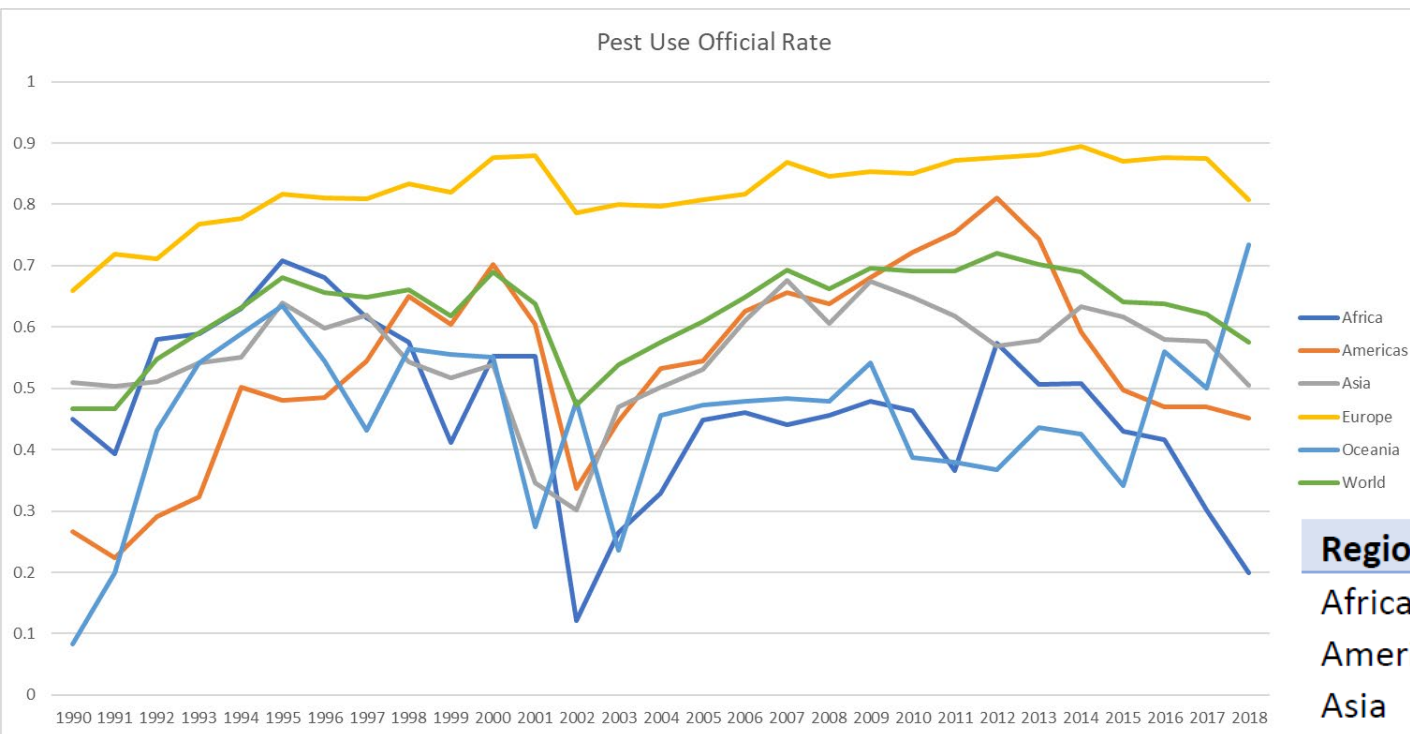
DATA COLLECTION/DISSEMINATION PROCESS, 2020

Joint dispatch to 205 countries

- First dispatch: October (sent to established national focal points and copy to NSOs, FAO offices and FAO regional statisticians)
- First reminder: November (same addressees as the First dispatch)
- Second reminder: December (via FAO country offices: representative, regional, sub-regional)
- Dissemination: July/August

Annual Data Collection, Analysis and Dissemination⁴

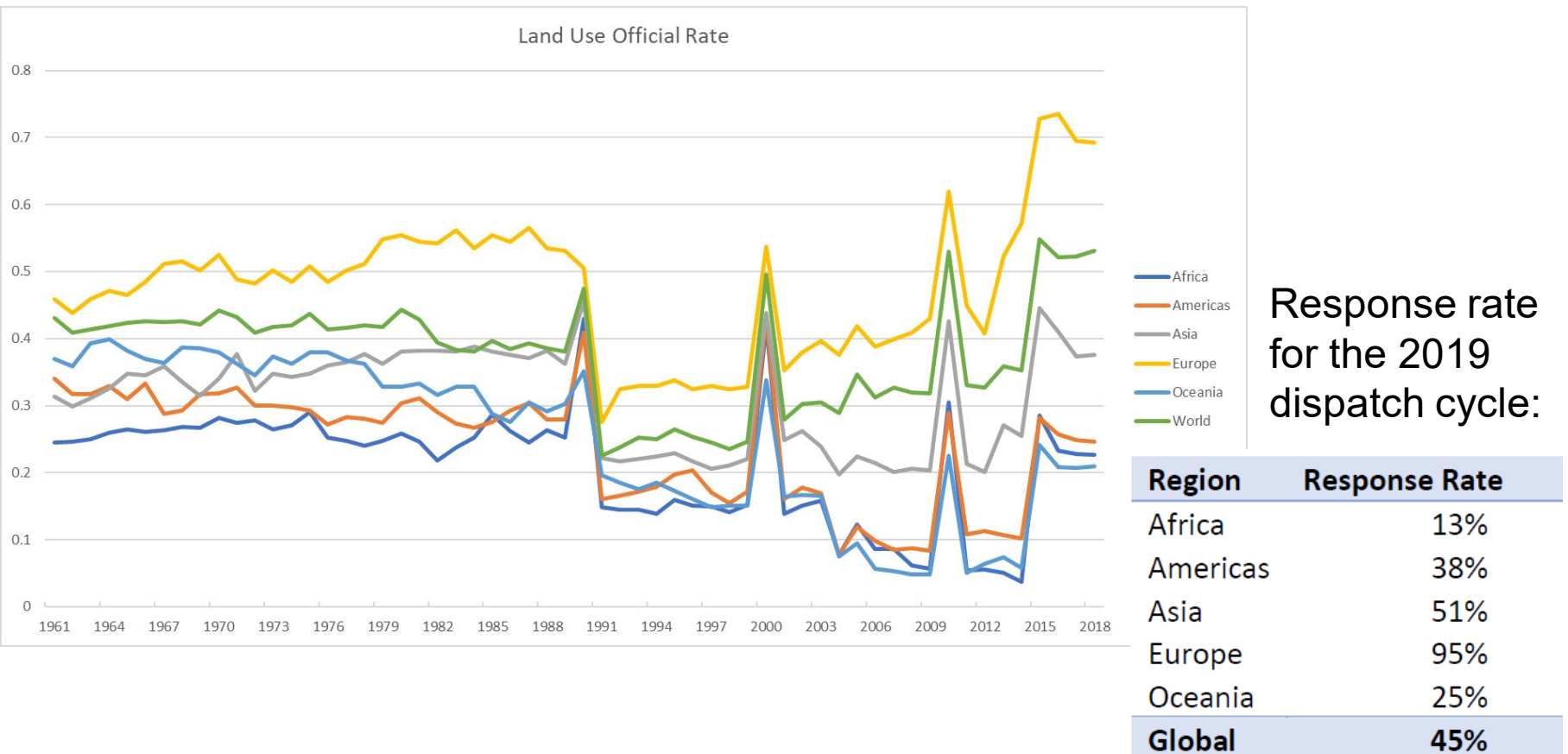
Quality Indicators: Pesticides Use



Response rate for the 2019 dispatch cycle:

Region	Response Rate
Africa	11%
Americas	27%
Asia	35%
Europe	69%
Oceania	20%
Global	32%

Quality Indicators: Land Use, Irrigation and Agricultural Practices



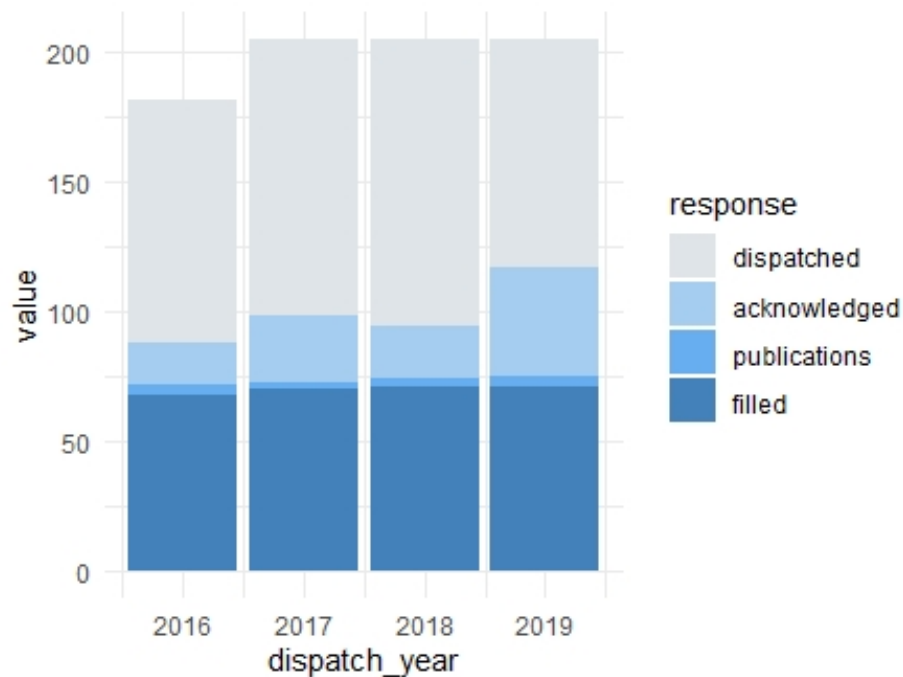
Annual Data Collection, Analysis and Dissemination

Quality indicators:

Response rate (data):

≈ 35%

	2016	2017	2018	2019
Quest.	68	70	71	71
Publ.	4	3	3	4
Ackn.	88	98	94	117
Disp.	181	205	205	205



Quest.: questionnaires received with data.

Publ.: data in official publications

Ackn.: questionnaires acknowledged (all of the above plus no-data replies)

Disp.: questionnaires dispatched

FOSTAT data dissemination:

Inputs – Land Use <http://www.fao.org/faostat/en/#data/RL>

Data are update annually and are available by country and year, covering up to 246 countries and territories for the period 1961-2018.

The screenshot shows the FAO FOSTAT website interface for Land Use data. The URL is <http://www.fao.org/faostat/en/#data/RL>. The page features a blue header with the FAO logo and navigation links. Below the header, there are tabs for 'Data', 'Selected Indicators', 'Compare Data', 'Definitions and Standards', and 'FAQ'. A search bar is present for finding indicators or commodities. The main content area is titled 'Land Use' and includes a 'Back to domains' button. There are four filter panels: 'COUNTRIES' (listing countries like Afghanistan, Albania, Algeria, etc.), 'ELEMENTS' (listing Area, Carbon stock in living biomass), 'ITEMS' (listing Land use > (List), Country area, Land area, Agriculture > (List), Agricultural land), and 'YEARS' (listing years from 2018 down to 2013). At the bottom, there are options for 'Output Type' (Table, Pivot), 'File Type' (CSV, XLS), 'Thousand Separator in Show Data' (None, Comma, Period), and 'Output Formatting Options' (Flags, Codes, Units, Null Values). A 'Show Data' button and a 'Download Data' button are at the bottom center. On the right side, there is a 'Land Use' section with a description, a 'Bulk Downloads' table, and a 'Last Update' section.

Bulk Downloads	
All Data	716 kB
All Data Normalized	1.25 MB
All Area Groups	170 kB
Africa	132 kB
Americas	116 kB
Asia	133 kB
Europe	144 kB
Oceania	30 kB

Last Update: September 10, 2020

Related Documents:

- README_Domain_Information
- Country_Notes
- Update history

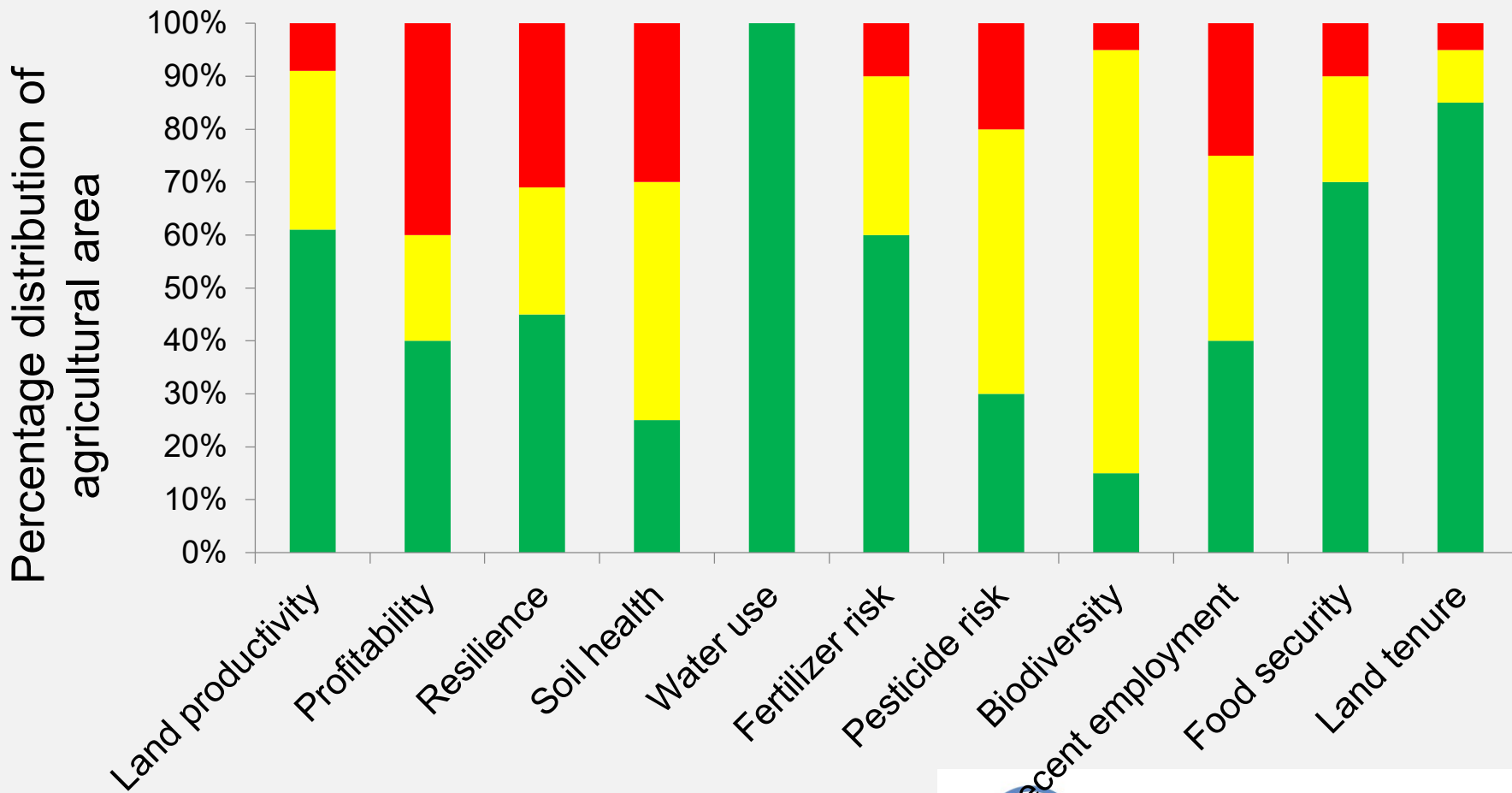
Definitions and standa...
Metadata

Indicator 2.4.1. Framework: list of sub-indicators

Dimension	Themes	Sub-indicators
Economic	1. Land productivity	Farm output value per hectare
	2. Profitability	Net farm income
	3. Resilience	Risk mitigation mechanisms
Environmental	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 agro-biodiversity-supportive practices
Social	9. Decent employment	Wage rate in agriculture
	10. Food security	Food Insecurity Experience Scale (FIES)
	11. Land tenure	Secure tenure rights to land

Dashboard Approach

Example of results for country X in year Y



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SDG 2.4.1 PILOT TEST (Dec. 2019 – May. 2020)

Collect test data from 45 pilot countries using the SDG 2.4.1 Questionnaire

- *Pilot countries contributed to SDG 2.4.1 methodological development and its refinements*
- *Participated in previous national pilot tests and/or national, regional trainings*
- *Beneficiaries of the AGRISurvey programme or 50x2030 Initiative*

- Understand the availability of data
- Assess the feasibility of data collection
- Collect information on country preparedness, in terms of existing statistical processes
- Test the questionnaire structure and clarity
- Assess country needs in terms of capacity development i.e. technical assistance and training on SDG 2.4.1

OBJECTIVES



* *Countries that replied after April 2020 where not included in the final report*

SDG 2.4.1 PILOT test – Response Rates

32
acknowledged
receipt

71
%

24 sent the
questionnaire
back

53
%

20 filled the
survey
section

44
%

20 filled the
feedback
section

44
%

7 provided
actual data

16
%

3 stated they
did not have
any data

7
%

SDG 2.4.1 FIRST DISPATCH (2020-21)

Process:

- ❑ First dispatch: August 10th, 2020 → 203 countries contacted
- ❑ First reminder: October 16th, 2020 → 143 countries contacted
- ❑ Second reminder: November 12th, 2020 → 117 countries contacted

(Questionnaire available in English, French, Spanish and Arabic)

- ❑ As part of the process 82 SDG 2.4.1 focal points identified

SDG 2.4.1 First Dispatch – 2020 Response Rates

- Correspondence and follow-ups on questionnaires are still work in progress
- In parallel; analysis, gap filling, QA/QC processes has started

Country Responses:

102 acknowledged receipt

50%

79 sent the questionnaire back with complete or partial data

39%

39 stated that currently data are not available

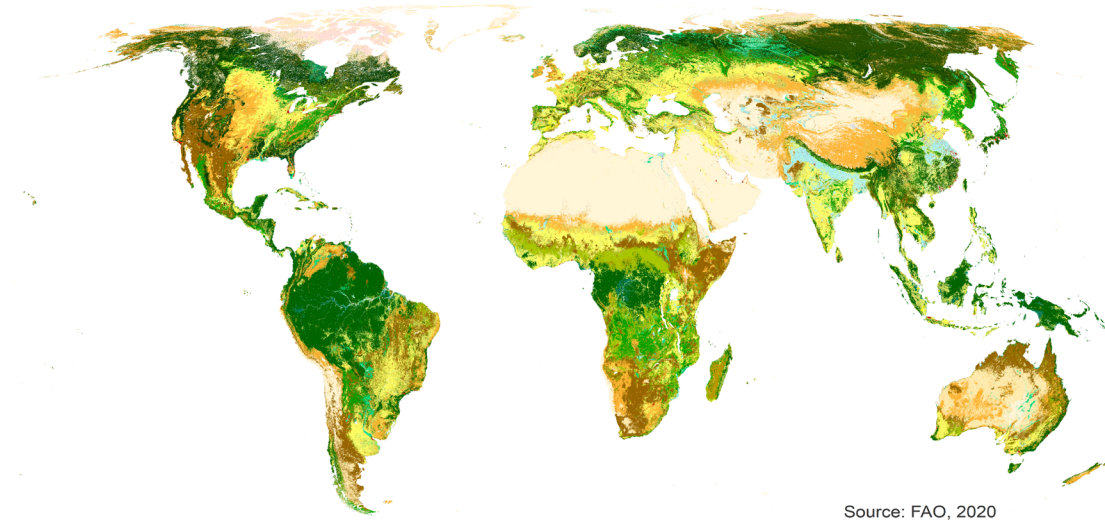
19%

** Updated on November 17th, 2020*

Conclusions

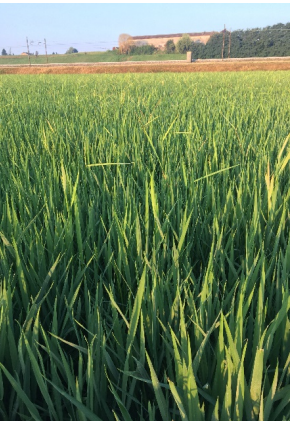
- FAO regularly engaged in collection, analysis and dissemination of agri-environmental statistics relevant to food and agriculture
- New data collection activity on SDG 241
- FAO ENV Team available to provide advise and support to national data teams

Thank you!



Source: FAO, 2020

francesco.tubiello@fao.org



Annual Data Collection, Analysis and Dissemination

Questionnaire on fertilizers

COMMODITY	Nutrient content:			ELEMENT (UNITS)	PRODUCTION				AGRICULTURAL USE				OTHER USES				NOTES
	N%	P ₂ O ₅ %	K ₂ O%		2012	2013	2014	2015	2012	2013	2014	2015	2012	2013	2014	2015	
TOTALS IN NUTRIENTS																	
TOTAL NITROGEN	100	0	0	Quantity of N (t):													
TOTAL PHOSPHATE	0	100	0	Quantity of P ₂ O ₅ (t):													
TOTAL POTASH	0	0	100	Quantity of K ₂ O (t):													
GENEROUS FERTILIZERS																	
	46	0	0	Quantity of product (t):													
	21	0	0	Quantity of product (t):													
	33.5	0	0	Quantity of product (t):													
(N) and carbonate	26	0	0	Quantity of product (t):													
	16	0	0	Quantity of product (t):													
ate solutions	32	0	0	Quantity of product (t):													
ibus	82	0	0	Quantity of product (t):													
er nitrogenous fertilizers and mixtures, n.e.c.	20	0	0	Quantity of product (t):													
STRAIGHT PHOSPHATIC FERTILIZERS																	
Phosphate rock	0	30	0	Quantity of product (t):													
COMPOUND FERTILIZERS																	
NPK fertilizers	15	15	15	Quantity of product (t):													
Diammonium phosphate (DAP)	18	46	0	Quantity of product (t):													
Monoammonium phosphate (MAP)	11	52	0	Quantity of product (t):													

Totals in nutrients

Products in tonnes

Nutrient content

Annual Data Collection, Analysis and Dissemination

Questionnaire on fertilizers

