FAO agri-environmental data collection

UN EGES Annual Meeting – October 19, 2021
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)

• Global knowledge products; Support to evidence-based decision making
**Annual Data Collection, Analysis and Dissemination**

**QUESTIONNAIRE ON LAND USE, IRRIGATION AND AGRICULTURAL PRACTICES**

**QUESTIONNAIRE ON FERTILIZERS**

**QUESTIONNAIRE ON PESTICIDES USE**

- Country: country
- Reference calendar years: from_from_to_to
- Unit of measurement: tonnes (t)

**Purposes of the questionnaire**

The Pesticides Use questionnaire is designed to collect data on pesticides use in the agricultural sector for crops, horticulture, and forestry. It covers major pesticide types (herbicides, insecticides, fungicides, plant growth regulators, and Rodenticides) and relevant chemical groups (Organophosphates, Phosysthione products, Carbamates, etc.). Data are requested in units of active ingredients. The data are deposited on FAOSTAT at [http://www.fao.org/faostat](http://www.fao.org/faostat).

Please complete or update the contact details of the National Focal Point responsible for this questionnaire in your country.

<table>
<thead>
<tr>
<th>National Focal Point</th>
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<tbody>
<tr>
<td>Name: John Doe</td>
</tr>
<tr>
<td>Title: Project Manager</td>
</tr>
<tr>
<td>Address: 123 Main St, Anytown, USA</td>
</tr>
<tr>
<td>Email: <a href="mailto:john.doe@fao.org">john.doe@fao.org</a></td>
</tr>
<tr>
<td>Tel: 555-123-4567</td>
</tr>
<tr>
<td>Fax: 555-123-4566</td>
</tr>
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<td>Website: faostat.fao.org</td>
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**Structure**

- This questionnaire is composed of three introductory sections: Cover, Instructions, and Definitions.

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**FAOSTAT**

FAOSTAT provides free access to food and agriculture data for over 246 countries and territories and covers all FAO regional groupings from 1961 to the most recent year available.
DATA COLLECTION/DISSEMINATION PROCESS, 2021/22

Joint dispatch to 205 countries

- First dispatch: October 4th (sent to established national focal points and copy to NSOs, FAO offices and FAO regional statisticians)
- First reminder: November
- Second reminder: December (via FAO country offices: representative, regional, sub-regional)
- Dissemination: June 2022
Coverage and response rate

• The database covers **246** countries and territories in the period 1961–2019. The questionnaires are sent to **205** countries/territories.

• The overall response rate is **40-50%**.

• Gap filling is performed, either using official information from government websites (typically updated with agricultural Censuses) or by statistical methods. Auxiliary information including geospatial (i.e., land cover) is increasingly applied.

• In 2021, overall imputation was **30-35%**.
Land Use Statistics

Pesticides Statistics

Fertilizers Statistics

## SDG 2.4.1: Productive and sustainable agriculture

Data collection pilot in 2019, full questionnaires sent since 2020

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Themes</th>
<th>Sub-indicators</th>
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</thead>
<tbody>
<tr>
<td><strong>Economic</strong></td>
<td>1. Land productivity</td>
<td>Farm output value per hectare</td>
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<td></td>
<td>2. Profitability</td>
<td>Net farm income</td>
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<td>3. Resilience</td>
<td>Risk mitigation mechanisms</td>
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<td><strong>Environmental</strong></td>
<td>4. Soil health</td>
<td>Prevalence of soil degradation</td>
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<td>5. Water use</td>
<td>Variation in water availability</td>
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<td>6. Fertilizer risk</td>
<td>Management of fertilizers</td>
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<td>7. Pesticide risk</td>
<td>Management of pesticides</td>
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<td>8. Biodiversity</td>
<td>Use of agro-biodiversity-supportive practices</td>
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<td><strong>Social</strong></td>
<td>9. Decent employment</td>
<td>Wage rate in agriculture</td>
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<td>10. Food security</td>
<td>Food Insecurity Experience Scale (FIES)</td>
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<td>11. Land tenure</td>
<td>Secure tenure rights to land</td>
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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!

francesco.tubiello@fao.org