### TWENTY-SEVENTH SESSION

Nadi, Fiji, 19 – 23 March 2018

Agenda Item 10

**Innovations in Agriculture environment and climate change statistics**

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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
Analytical Environment Statistics

- 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
FAOSTAT Global Reference Datasets

& geo-reference data

SDG Methods IPCC 2006 Guidelines

Level 1
Level 2
Level 3

## Agri-Environmental Indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Data Description</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air and Climate</td>
<td>% Ag. NH3</td>
<td>1980-2009</td>
</tr>
<tr>
<td>Energy</td>
<td>Bioenergy, Ag. Use</td>
<td>1971-2009</td>
</tr>
<tr>
<td>Soil</td>
<td>% C, degrad., erosion</td>
<td>1991 &amp; 2008</td>
</tr>
<tr>
<td>Water</td>
<td>% ag. withdrawals</td>
<td>1961-2010</td>
</tr>
<tr>
<td>Fertilizers</td>
<td>Kg/ha on cropland</td>
<td>2002-2015</td>
</tr>
<tr>
<td>Pesticides</td>
<td>Kg/ha on cropland</td>
<td>1990-2015</td>
</tr>
<tr>
<td>Livestock Patterns</td>
<td>% LSU</td>
<td>1961-2015</td>
</tr>
<tr>
<td>Land Use</td>
<td>Share over land area</td>
<td>1961-2015</td>
</tr>
<tr>
<td>Land Cover</td>
<td>ha</td>
<td>1990-2015</td>
</tr>
<tr>
<td>Climate Change</td>
<td>GHG, Temp Change</td>
<td>1961-2017</td>
</tr>
</tbody>
</table>

**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

**Bulk Downloads**

- All Data 540 KB
- All Data Normalized 2.86 MB
- All Area Groups 152 KB
- Africa 202 KB
- Americas 167 KB
- Asia 190 KB
- Europe 1.63 KB
- Oceania 44 KB

**Last Update**

July 6, 2017

**Related Documents**

- README Methodological Note

**Definitions and standards**

- Metadata
Average fertilizers use (~SDG 2.4.1)

- N, PO₅, K₂O average use per unit cropland
- 2002-2015
Land Cover (SDG 15.3.1.1)

- 14 Land Cover Classes (SEEA), 1992-2015
- Based on Remote Sensing (MODIS, ESA)
Climate Change Statistics

- FAO contributes to UNECE Task Force on CC Relevant Statistics
- Recent FAO presentation at 48th UNSC Side Event
- Communication of results to non-specialized users
- Climate Change statistics support Enhanced Transparency under UNFCCC Paris Agreement, especially for Nationally Determined Contributions (NDCs)
GHG Emissions Statistics

- FAO database with estimates and updates of GHG Emissions from Agriculture and related Land Use;
- 1961-2014 (Agriculture); 1990-2015 (Land Use): ~185 Countries
- Reference **Tier 1** GHG Inventory using 2006 IPCC Guidelines:
  - Facilitate national, regional and global analysis, including IPCC Assessment Reports
  - Support member countries report under UNFCCC, addressing data gaps and QA/QC
  - Explore policy-relevant indicators in support of analyses linked to resilience, food security
Temperature Change

• Temp Change for annual, seasonal and monthly means, 1961-2017
Conclusions

• FAOSTAT statistics are useful to address a number of relevant issues in agri-environment and climate change

• FAO collects (analyzes, disseminates) directly from countries a basic set of core environment statistics

• FAO produces and disseminates additional, analytical estimates and indicators, in support of national, regional and global evidence-based decision making

• Recent efforts include a focus on climate change statistics, in support of UNFCCC Paris Agreement and SDG reporting processes of member countries
Requested Feedback to APCAS

- APCAS countries are asked to:

  - Evaluate the new efforts on FAOSTAT agri-environmental statistics, in support of national analysis and international reporting, including for SDG and UNFCCC processes (i.e., take note, encourage to continue, endorse current efforts);

  - Express their interest in receiving FAO capacity development support towards testing and implementing relevant sets of environmental statistics at national level
Thank you