

Climate Change Statistics at FAO for Agriculture, Forestry and Fisheries

**Climate Change Relevant Statistics
UNEGES, New York May 16-18 2018**



Food and Agriculture Organization
of the United Nations



Outline

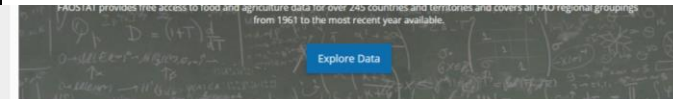
- ***Core Environment Statistics***
- ***Derived Statistics and Indicators***
- ***Climate Change Statistics***



FAOSTAT Core Environment Statistics

Annual Data Collection, Analysis and Dissemination

 Food and Agriculture Organization of the United Nations		 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>					
Reporter name: Title: Administration and Office: Address: Tel: City: Email: Tel: Fax: Web site address: 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		Reporter name: Title: Administration and Office: Address: Tel: Fax: E-mail: http://: Date: • 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/			
<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.

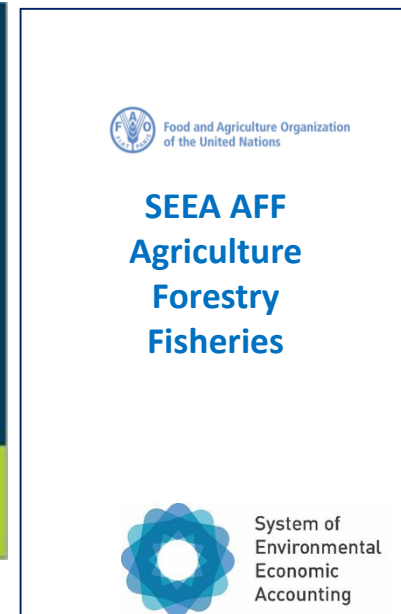
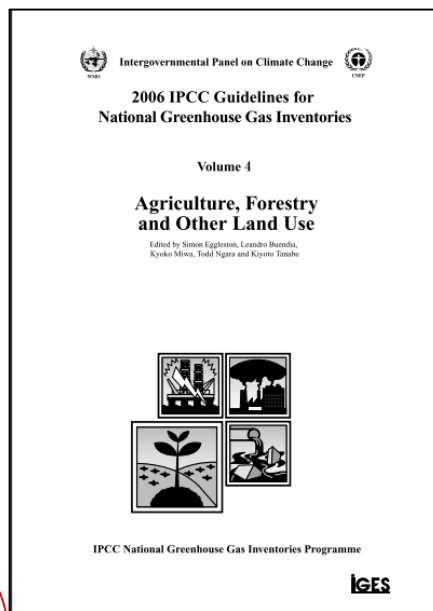
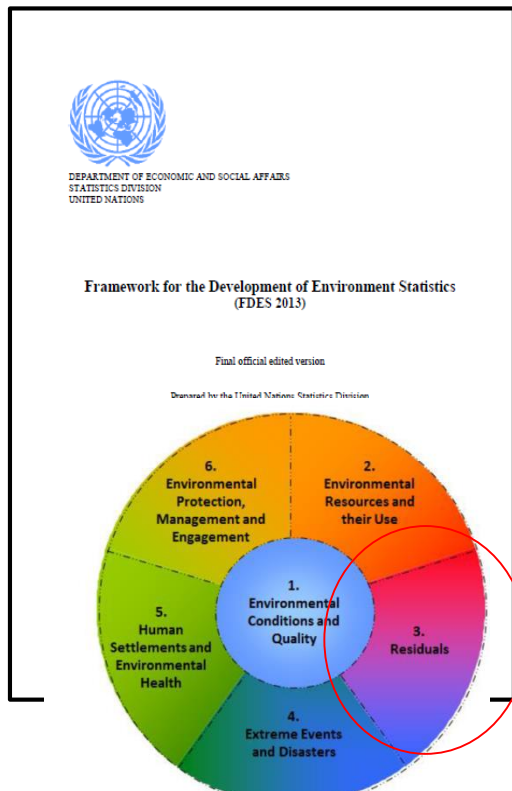
Tweets by @FAOstatistics
James Edge @jamesedge
A plague of armyworms is marching across Africa, devouring crops and causing new hunger at an alarming rate. [the-guardian](#)
Armyworms: The hungry caterpillar threatens...
A plague of armyworms is marching across Africa. [the-guardian](#)

- 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

FAOSTAT Analytical Environment Statistics

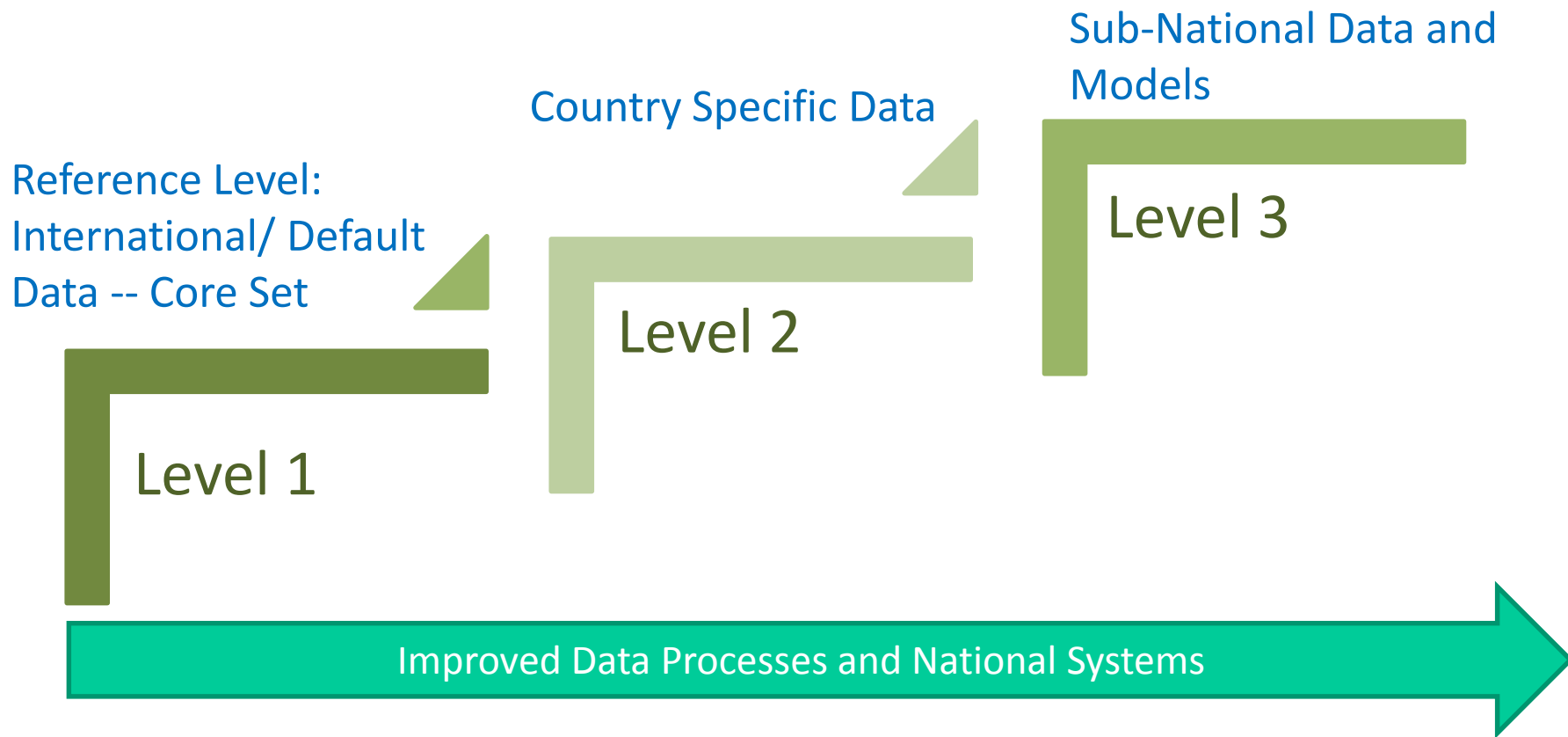
supporting SDG, Climate Change processes

- 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 SDGs and Climate Change Relevant Statistics



FAOSTAT Analytical Environment Statistics

Global default estimates

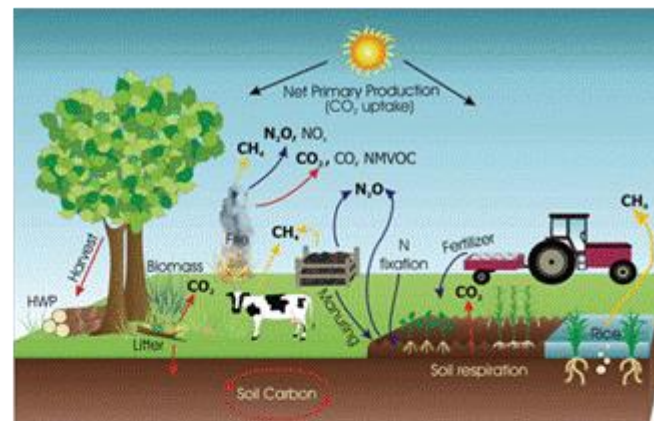


& geo-reference data



SDG Methods

IPCC 2006 Guidelines



<http://www.fao.org/faostat/en/#data>

Climate Change-relevant Statistics at FAO

Rationale

- Agriculture, Forestry and Fisheries are both a significant cause of climate change (20-24% of global emissions), and a sector greatly vulnerable through negative climate impacts on food production and food security
- Agriculture figures prominently in member countries' National Determined Contributions under the UNFCCC Paris Agreement, for both mitigation and adaptation commitments and goals

CC Statistics support to member countries

- Contribute to the Enhanced Transparency Framework for reporting under the climate convention
- Enable national analysis and regional comparisons, complementing SDG 13 by means of quantifiable indicators



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New FAOSTAT Climate Change Statistics

Products

- Greenhouse gas emissions for [agriculture, forestry and other land use](#), 1961-2016
- Related indicators: [Agriculture contribution](#) to total emissions (1961-2010); [Emissions intensities](#) of ag commodities (1961-2016)
- [Temperature Change](#) (NASA/FAO), 1961-2017

International Context

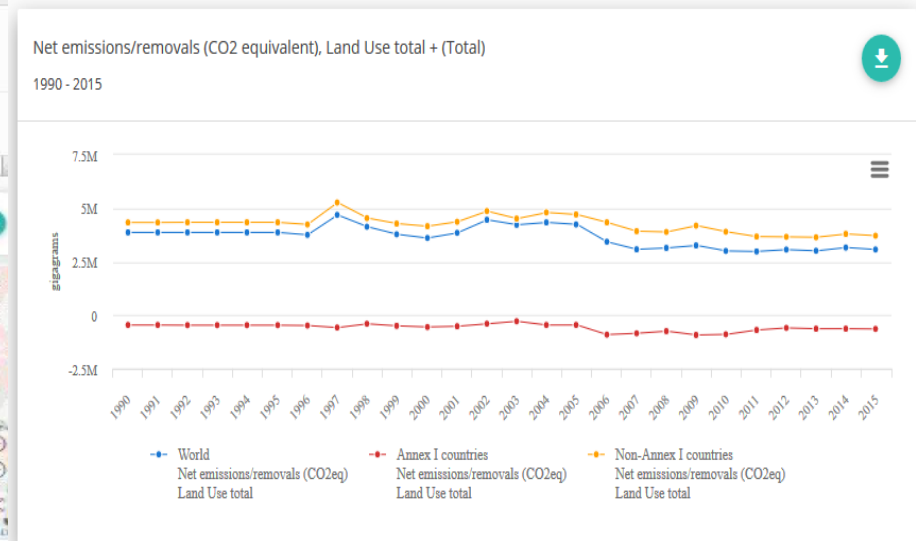
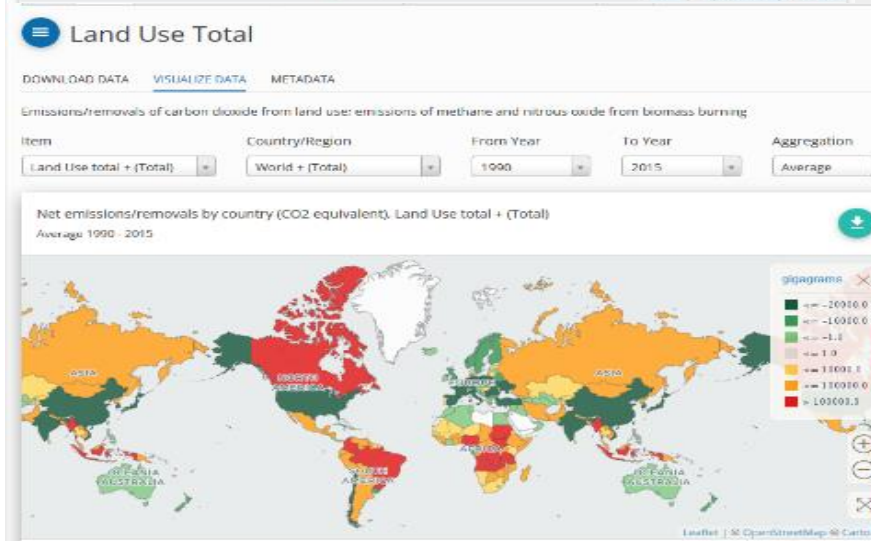
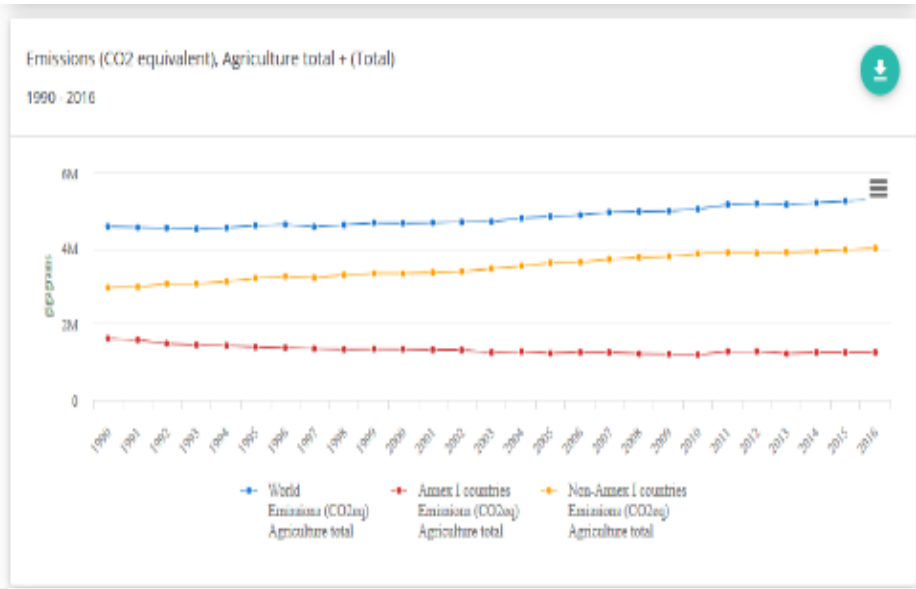
- Support countries reporting to UNFCCC
- Contribute to UNSD work and the UNECE Task Force on CC-Relevant Statistics (FAO pilot for UNECE set)
- Extend the SEEA Air Emissions Accounts for Agriculture, Forestry and Fisheries

Outreach

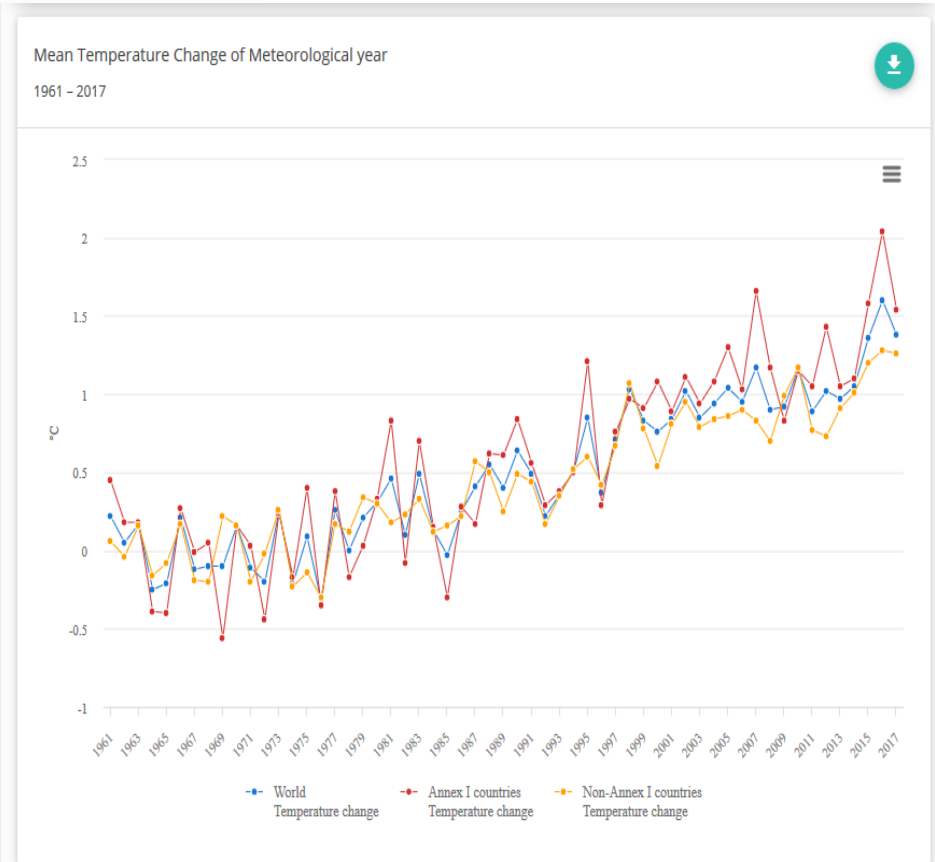
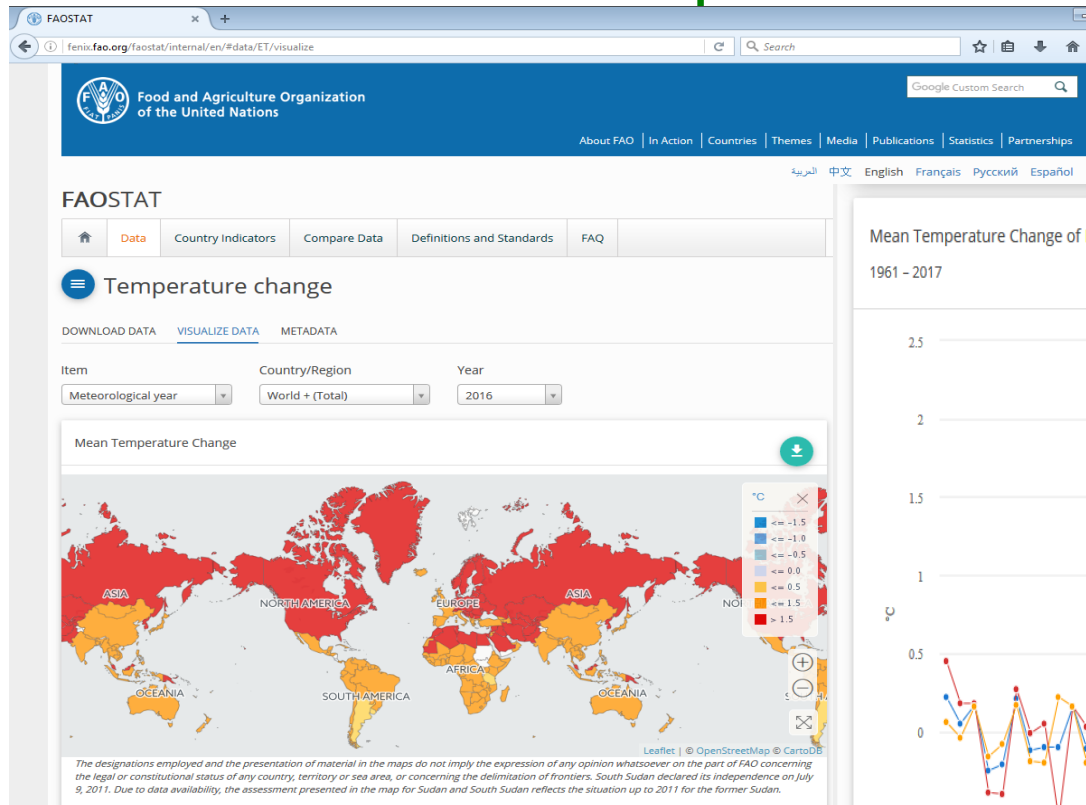
- Capacity development to strengthen relevant national statistics
- Focus on communication of results to non-specialized users



FAOSTAT Emissions Database



FAOSTAT Climate Change Indicators: Temperature Change



- Temp Change for annual, seasonal and monthly means, 1961-2017
- Based on observed meteorological station data analysed by NASA – [movie](#) [youtube](#)



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Conclusions

- FAOSTAT Climate Change Statistics aim to support member countries in their national analyses and international reporting needs
- Established domains include emissions and related indicators, and are used to inform regional and global trends
- FAO aims to work with member countries, UNFCCC, UNSD and UNECE on the creation of a climate change relevant statistical framework in support of the Enhanced transparency goals of the Paris agreement



Thank You !

for more information:
Francesco N. Tubiello
Team Leader, Environment
Statistics Division, FAO

francesco.tubiello@fao.org

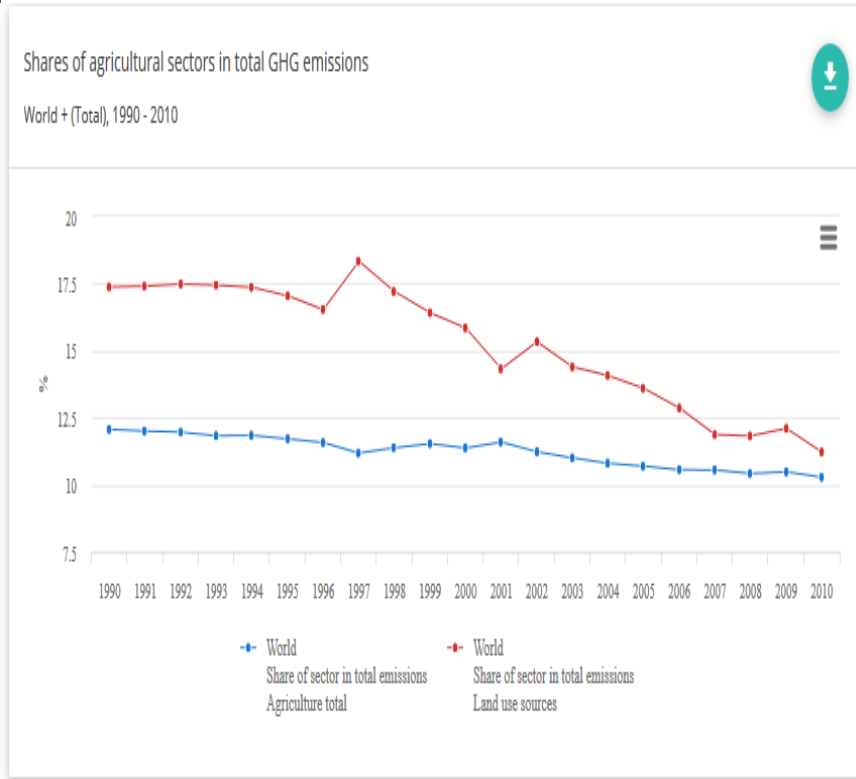
<http://www.fao.org/economic/ess/environment/en/>



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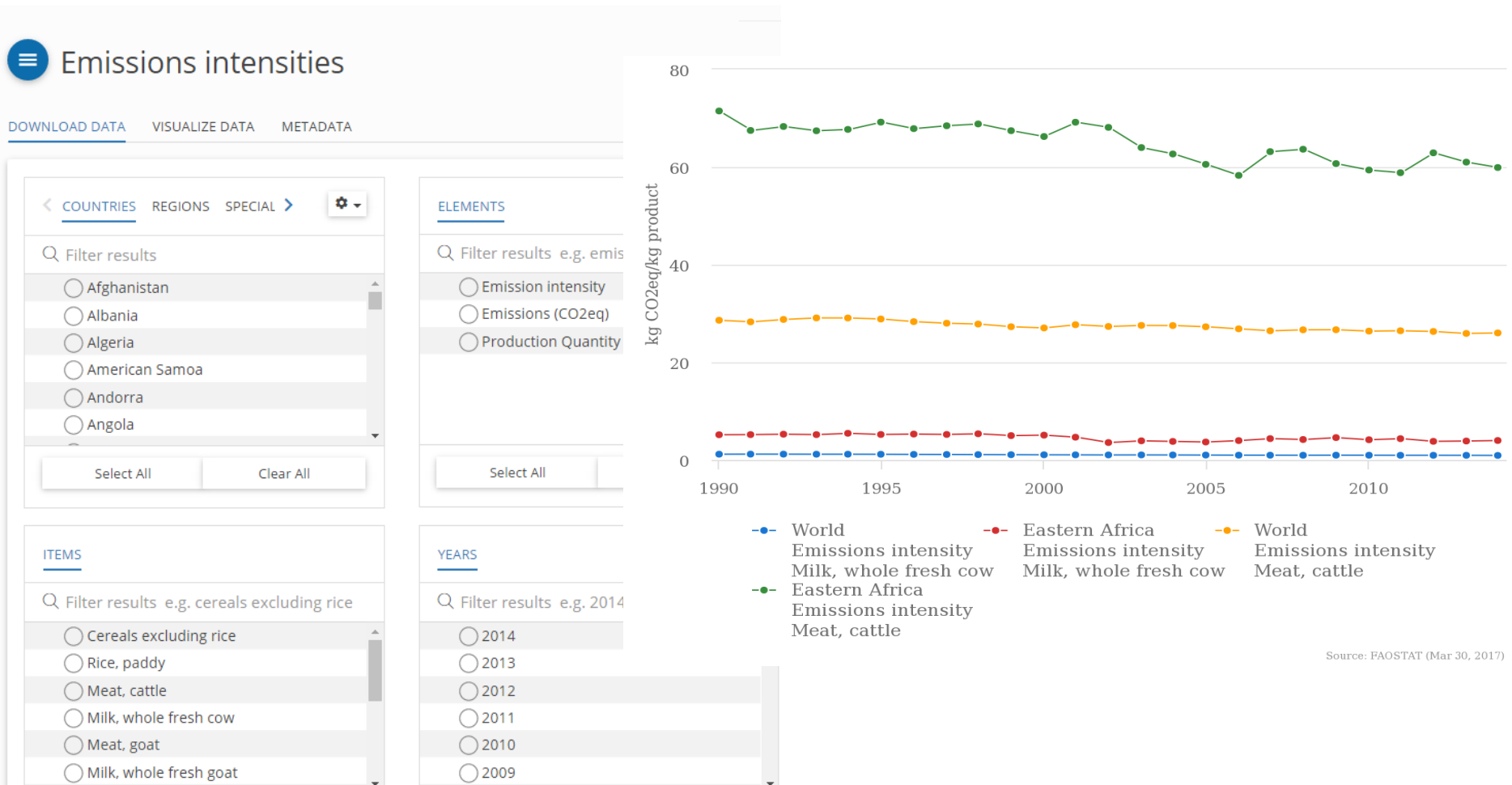
FAOSTAT Climate Change Indicators: Emissions by Sector

The screenshot shows the FAOSTAT website interface. The top navigation bar includes the FAO logo and the text 'Food and Agriculture Organization of the United Nations'. Below this, there are links for 'About FAO', 'In Action', 'Countries', 'Themes', 'Media', 'Publications', 'Statistics', and 'Partnerships'. The main content area is titled 'Emissions by sector' and features several filter panels: 'COUNTRIES', 'ELEMENTS', and 'YEARS'. The 'ELEMENTS' panel is currently selected, showing options like 'Share of sector in total emissions' and 'Share of sector in total CO2 emissions'. A 'Bulk Downloads' section is visible on the right, listing various data files with their sizes.



- % Share Emissions Agriculture to total economy, 1970-2010
- % Share Emissions Forestry and Land Use , 1990-2010

FAOSTAT Climate Change Indicators: Emissions Intensity (Milk, Meat, Rice, etc.)



Source: FAOSTAT (Mar 30, 2017)

- GHG emissions per unit milk, meat, rice, 1961-2016



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