Agricultural Data & the Food Security Portal

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Summer Allen
International Food Policy Research Institute

The European Commission represents the interests of the European Union by proposing new legislation to the European Parliament and the Council of the European Union and ensuring that EU law is correctly applied by member countries.
Current Data and Further Needs

• Satellite and mobile applications are becoming more practical.

• Advances in data access include land records, soil mapping, and satellite-derived production estimates.

• The region is still restricted in terms of information availability and technology.

• For producers, price and market discovery continues to be difficult.

• For policymakers, identification of opportunities and constraints can be complicated.
Role of Food Security Portal

• Provide regional- and country-level information to POs and policy makers.

• Provide a panel of several early warning tools for POs to be alerted on price and production volatility and be able to become more resilient to shocks.

• Provide relevant research and lessons learned on food security.

• Enable virtual and actual dialogues through broad network.

• Through further coordination, can provide platform for information sharing between POs and evaluate price transmission.

• Influence policy for more effective efforts to increase food security.
Policy network
Policy research networks associated with AGRODEP in Africa south of Sahara

Media analysis tools
Covering regional major crops including maize

Soil profiles
Soil grid map application collaborated with SoilGrids.org

Agricultural R & D indicators on institutional, investment, and capacity trends in agricultural R&D.

Volatility & Early warning systems
Volatility of local prices and of relevant commodities

Themes and discussion
Thematic topics (food access, food availability, input markets, risk and resilience, food consumption and nutrition)

Crop and Yield mapping
Crop calendar application collaborated with GeoGlam initiatives and yield mapping.

Main Features
Mobile-Adapted Platform

Expanding Knowledge, Informing Policy

Upcoming Virtual Dialogue: Constraints and Opportunities for Fertilizer Use

Why Paying Attention to Gender Matters for Climate Change Adaptation

Encouraging Inclusive Growth
Themes and Discussion

Food Availability
- Unpacking Post-Harvest Losses: A Meta-Analysis

Input Markets
- Macroeconomic Policy and Agriculture

Food Access

Risk and Resilience
- Increasing Resilience Requires an Effective Framework for Measurement

Food Consumption
- Women’s Role in Dietary Diversity

External Shocks
- Ethiopia Facing Severe Drought
Wholesale Prices

The graph shows the trend of wholesale prices for Maize, Rice, and Wheat over the years from 2007 to 2015. The prices are measured in USD per tonne. The graph includes data from various locations within Kenya, such as Eldoret, Kisumu, Mombasa, and Nairobi. The data source is the FAO Food price monitoring and analyzing tool.
Price Volatility- Impacts on Producers

• High price volatility increases expected producer losses

• High price volatility increases misallocation of resources

• Increased price volatility generates the possibility of larger net returns but only in the short term
Measuring Excessive Price Volatility

Days of Excessive Volatility - Annual

Year / Number of Days in Excessive Volatility

Maize  Soybean  Soft Wheat  Hard Wheat

Please note: Days of excessive volatility for 2013 are through March 2013
Each day, the global food- and commodity-related news articles located on the News section of the Food Security Portal are loaded into the Food Security Media Analysis System. Then the system updates the news article database and mines the complete corpus to generate up-to-date media daily analysis to produce valuable information that may influence global commodity price volatility and food security.
Input Prices

UREA PRICE COMPARISON IN SELECTED COUNTRIES (USD/TON)

Source: AMITSA
Soil Profiles

SoilGrids 1km is a collection of updatable soil property and class maps of the world at a relatively coarse resolution of 1 km produced using state-of-the-art model-based statistics.
IFPRI’s Agricultural Science and Technology Indicators (ASTI) program compiles, analyzes, and publicizes indicators on institutional, investment, and capacity trends in agricultural R&D.
This Global Nutrition Report tracks worldwide progress in improving nutrition status, identifies bottlenecks to change, highlights opportunities for action, and contributes to strengthened nutrition accountability. The report series was created through a commitment of the signatories of the Nutrition for Growth Summit in 2013.
Agricultural Policy Tool Kit
### How we can improve access to fertilizers in Africa South of the Sahara

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<tr>
<th>TOPIC / TOPIC STARTER</th>
<th>Replies</th>
<th>Last post</th>
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<td>What is the market structure? How much is the global market structure affecting Africa (which imports most of its fertilizer)? new by Soonho.Kim » Thu, 08/27/2015 - 16:54</td>
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<td>What opportunities exist and what are some examples of successful interventions? new by Soonho.Kim » Thu, 08/27/2015 - 16:54</td>
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<td>What are constraining factors (e.g., infrastructure, production, information, economic) new by Soonho.Kim » Thu, 08/27/2015 - 16:52</td>
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Actual Dialogues

Connecting the Dots South-South Learning

- Zambia
- Tanzania
- Mozambique
- Ethiopia
- Senegal
- Burkina Faso

Local partners include

- Indaba Agricultural Policy Research Institute (IAPRI)
- REPOA
- MINAG
- Ethiopian Economics Association (EEA)
- GRAD Consulting Group

Source: http://beam24.com/tag/physical-map-of-africa
Network of Experts
Learn more and register at:
ssa.foodsecurityportal.org