



منظمة الأغذية
والزراعة
للأمم المتحدة

联合国
粮食及
农业组织

Food
and
Agriculture
Organization
of
the
United
Nations

Organisation
des
Nations
Unies
pour
l'alimentation
et
l'agriculture

Organización
de las
Naciones
Unidas
para la
Agricultura
y la
Alimentación



Statistical Yearbook for Africa

Statistics Division, FAORAF

Food and Agriculture Organization of the United Nations

The background

Previous yearbook:

- based on excel sheets, no or limited accompanying text
- manual updates of graphs and tables, no direct links to underlying databases
- labour-intensive, no automatic documentation, poor version control, no scale economies (more tables) no scope economies (more SYBs)
- different layouts, different production processes between central and regional yearbooks
- methodologies: disparate classifications, imputation methods, etc.

The new approach

1. Sustainable and cost-effective architecture
2. Exclusively based on open source software (R and LaTeX)
3. Transparent, documented, reproducible product, version-controlled data and derived indicators
4. New template:
 - standardized tables, graphics, layout
 - standardized chapter set-up
5. Transferable to other publications with FAO and to other organizations (UNESCAP, UNECA)

The project and its products

1. Global Yearbook
2. Regional Yearbooks (five in 2014)
3. Pocketbook
4. Website/database
5. Extend concept to publications (SOFI)
and data products: corporate M&E tools,
scorecards, etc.

The structure

Each part contains –

1. **Narrative:** description with background and major trends
 2. **Visualizations:** various types of maps and charts, by region, country, and over time
 3. **Data tables:** detailed country-level and aggregate information for hundreds of indicators
- ➔ Creation of a **single reference point** for key statistics on F&A and other FAO flagship publications

The content

- **The setting:** economy, labour, inputs, capital and investment and innovation
- **Hunger dimensions:** suite of food security indicators
- **Feeding the world:** supply of food, therefore production in crops, livestock and fisheries, and trade
- **Sustainability dimensions:** land, forestry, water, biodiversity, climate change and greenhouse gases

Examples

MAP 16: Map of hunger (percent, 2013)

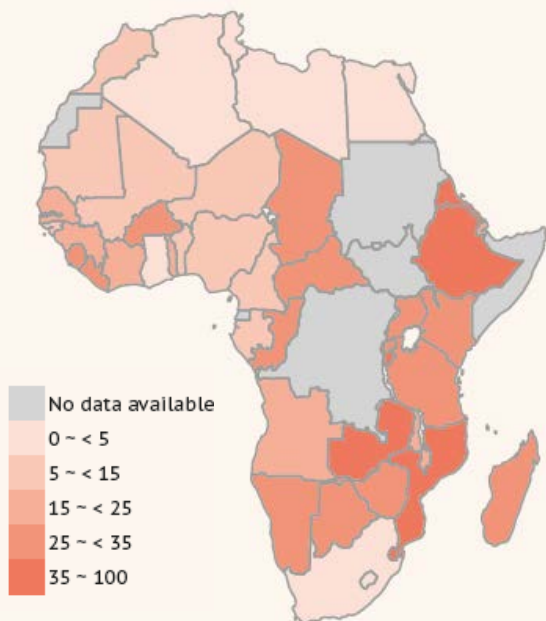
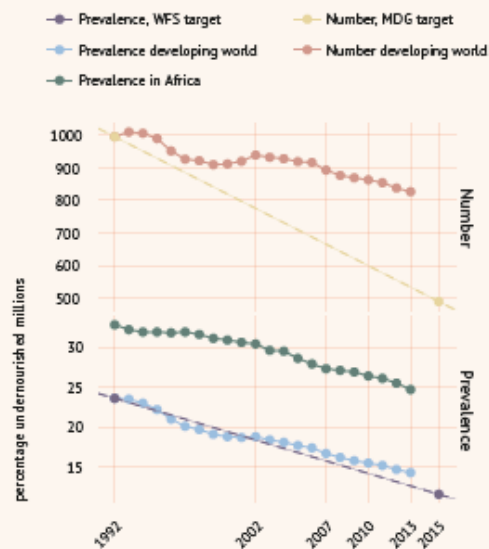
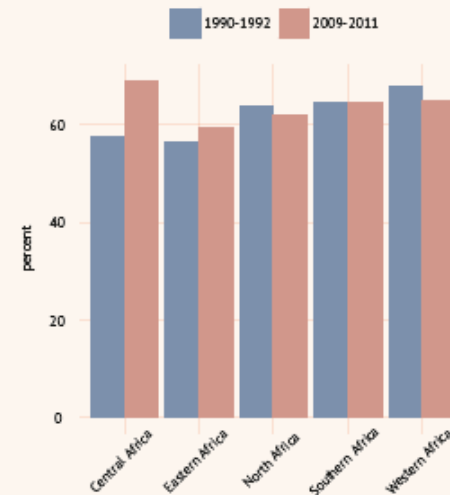


CHART 23: Undernourishment in the developing world (1990-1992 to 2011-2013)



Source: FAO, Statistics Division.

CHART 31: Share of energy supply derived from cereals, roots and tubers (1990-1992 and 2009-2011)



Source: FAO, Statistics Division.

The Statistical yearbook for Africa

- Keep the same structure like the Global yearbook with four thematic parts:
- **Specifications of the Africa yearbook:**
- For each chapter and section, indicators and the correspondent tables, maps and charts to be used
- Provide regional economic entities in the Region composition for which aggregated indicator have to be produced and displayed ;
- Narrative for each part and section that offer insights into the region;
- Printing and distribution of the yearbook

Conclusion

1. Transparent, extendable (other publications, other clients), fully documented product
2. Central control of the production process: One-stop-shop for production, version control of data and text
3. Open source software: no royalties, free sharing and free adaptation, large community of practice (new ideas, new approaches) – **space for country to adopt**
4. Particularly useful for template publications, however benefits decline with frequently changing formats and styles.



منظمة الأغذية
والزراعة
للأمم المتحدة

联合国
粮食及
农业组织

Food
and
Agriculture
Organization
of
the
United
Nations

Organisation
des
Nations
Unies
pour
l'alimentation
et
l'agriculture

Organización
de las
Naciones
Unidas
para la
Agricultura
y la
Alimentación



Thank you

**For more information, please contact
Amy Heyman or Eloi Ouedraogo**

Production

R: free software environment for statistical computing and graphics

LaTeX: LaTeX is a (free) advanced typesetting system designed for the production of technical and scientific documentation

Jointly they:

- Download data automatically and import datasets
- Merge together datasets with different coding systems/country classifications/formats
- Construct new variables (growth rates, shares, indexes, etc) and aggregates automatically
- Produce charts, tables and maps and export objects into LaTeX code
- LaTeX automatically generates the layout – importing text and objects
- One click away from blueprints (professional print quality file) or interactive web-based dissemination