The adventure of collecting data on organic agriculture worldwide

Helga Willer, FiBL

The World of Organic Agriculture, BIOFACH Congress

Nürnberg, February 13, 2019
## 20 years of data collection on organic agriculture worldwide: Milestones

<table>
<thead>
<tr>
<th>Year</th>
<th>Milestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999</td>
<td>The organizers of the Biofach organic trade fair ask the German Foundation Ecology &amp; Agriculture (SÖL) to compile basic data on organic agriculture worldwide.</td>
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<tr>
<td></td>
<td>11 million hectares of organic farmland; 0.2 million producers, 15.2 billion US dollars of retail sales.</td>
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<tr>
<td>2000</td>
<td>The first edition of the yearbook with global organic farming statistics (“Organic Agriculture World-wide”) is published by SÖL in collaboration with Biofach and IFOAM – Organics International and presented at the Biofach Fair, then in Frankfurt, Germany. Since then, the data have been published annually and are presented at Biofach every year.</td>
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<tr>
<td>2001</td>
<td>The Research Institute of Organic Agriculture FiBL joins as a partner.</td>
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<tr>
<td>2006</td>
<td>For the first time, land use and crop data on organic agriculture are collected.</td>
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<tr>
<td>2008</td>
<td>Funding by the Swiss State Secretariat of Economic Affairs (SECO) and the International Trade Centre (ITC) enables FiBL to set up a professional database to improve data collection, processing, storage, and analysis.</td>
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<tr>
<td></td>
<td>FiBL sets up the Organic-World.net website.</td>
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<td></td>
<td>34.5 million hectares of organic farmland, 1.4 million producers, 50.2 billion US dollars in retail sales (data published in 2010).</td>
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<tr>
<td>2011</td>
<td>The Food and Agriculture Organisation of the United Nation (FAO) includes the FiBL data into its FAOSTAT online database.</td>
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<td>2012</td>
<td>The OrganicDataNetwork project starts, funded under the 7th Framework Programme for Research and Technological Development of the European Union. Under this project, the data collection and processing methods are improved and an interactive online database is set up.</td>
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<tr>
<td></td>
<td>Organic and Beyond (China) translates and publishes an excerpt of “The World of Organic Agriculture” (annually since that year).</td>
</tr>
<tr>
<td>2014</td>
<td>The follow-up project of the SECO-ITC-funded project “Global Information System for Organic Market and Production Data” includes data collection on Voluntary Sustainability Standards.</td>
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<tr>
<td>2015</td>
<td>The first edition of “The State of Sustainable Markets” with data on 14 Voluntary Sustainability Standards is published by FiBL, ITC and the International Institute of Sustainable Development (IISD).</td>
</tr>
<tr>
<td>2017</td>
<td>69.8 million hectares of organic farmland, 2.9 million producers, 97 billion US dollars in retail sales (data published in 2019).</td>
</tr>
<tr>
<td>2018</td>
<td>FiBL launches a dedicated website for the interactive online database – Statistics.FiBL.org.</td>
</tr>
<tr>
<td></td>
<td>Funding by the Sustainability Fund of Coop Switzerland (Coop Fonds für Nachhaltigkeit).</td>
</tr>
</tbody>
</table>
The World of Organic Agriculture 2010-2019
Annual presentation of data at BIOFACH since 2000
1999: Hubert Rottner and Hagen Sunder initiate the data collection
Early 2000s: Data collection system and network set up
2006: Land use and crop data available for the first time

• Minou Yussefi-Menzler of Foundation Ecology & Agriculture (SÖL)
• Barbara Baraibar, today Penn State University
2008: SECO/ITC Funding starts

- Professional Questionnaire
- Professional database
- Website www.organic-world.net for data download
- Network is expanded
2003-2006: European Information System for organic market data

Development of a European Information System for Organic Markets – Improving the Scope and Quality of Statistical Data

Proceedings of the 1st EISfOM European Seminar, held in Berlin, Germany, 20-21 April, 2004

Edited by Guido Roche, Helewa Willer, Nicolas Lampkin and Alison Vaughan

Published by FiBL

www.fibl.org

17. Februar 2019
2012-2014: OrganicDatanNetwork

Tutorial on the use of OrMaCode: ORganic Market data Manual and CODE of Practice

www.fibl.org
OrganicDAtaNetwork team
2014: Data collection on Voluntary Sustainability Standards
Voluntary Sustainability Standards compared (2016)
Source: Lernoud et al. 2018

[Bar chart showing the number of hectares certified by different sustainability standards]
Data collection on Voluntary Sustainability Standards
2016: First infographics developed

The World of Organic Agriculture 2017

Organic Farmland 2017

- 2016: First infographics developed

- 2016

- Top 3 countries
  - Australia: 35.6
  - Argentina: 3.4
  - China: 3.0

Organic Producers 2017

- The number of organic producers is increasing

- More than 92

- From 2016

- Organic farmers

Organic Market 2017

- The global market is growing and consumer demand is increasing

- More than 92

- Global organic food market in billion euros

- Top 3 countries
  - USA: 40.0
  - Germany: 10.0
  - France: 7.9

- 2016

- Organic market growths

- 13.3% Market share

- 288 € Highest per capita spending is in Switzerland
Organic agriculture worldwide 2017

North America
3.2 million ha
19,017 producers

Europe
14.6 million ha
397,509 producers

Asia
6.1 million ha
1.1 million producers

Latin America
8.0 million ha
455,749 producers

Africa
2.1 million ha
815,070 producers

Oceania
35.9 million ha
26,750 producers
FAO data on organic agriculture
## FAO landuse database

### Show Data

<table>
<thead>
<tr>
<th>Code</th>
<th>Domain</th>
<th>Area Code</th>
<th>Area</th>
<th>Element Code</th>
<th>Element</th>
<th>Item</th>
<th>Year Code</th>
<th>Year</th>
<th>Unit</th>
<th>Value</th>
<th>Flag</th>
<th>Flag Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Use</td>
<td>1</td>
<td>Armenia</td>
<td>5110 Area</td>
<td>6671</td>
<td>Agriculture area under organic agric.</td>
<td>2016</td>
<td>2016</td>
<td>1000</td>
<td>1.2</td>
<td>I</td>
<td>Country data reported by International Organizations where the country is a member (Semi-official) - WTO, EU, UNSD, etc.</td>
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<td>Austria</td>
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<td>6671</td>
<td>Agriculture area under organic agric.</td>
<td>2016</td>
<td>2016</td>
<td>1000</td>
<td>570.8</td>
<td>Q</td>
<td>Official data reported on FAO Questionnaires from countries</td>
<td></td>
</tr>
<tr>
<td>Land Use</td>
<td>52</td>
<td>Azerbaijan</td>
<td>5110 Area</td>
<td>6671</td>
<td>Agriculture area under organic agric.</td>
<td>2016</td>
<td>2016</td>
<td>1000</td>
<td>37.63</td>
<td>I</td>
<td>Country data reported by International Organizations where the country is a member (Semi-official) - WTO, EU, UNSD, etc.</td>
<td></td>
</tr>
</tbody>
</table>

Showing 1 to 100 of 164 rows. 100 - records per page
Eurostat metadata for the Eurostat organic farming statistics

Organic farming (org)
Reference Metadata in Euro SDMX Metadata Structure (ESMS)
Compiling agency: Eurostat, the statistical office of the European Union

12. Relevance

12.1. Relevance - User Needs
The main users are DG Agriculture and Rural Development, DG Environment, European Environment Agency (EEA), Research Institute of Organic Agriculture (FiBL), public.

12.2. Relevance - User Satisfaction
No official user satisfaction has been carried out.

12.3. Completeness
Reference year 2016 (preliminary information):
- 86.56% of mandatory data was provided
- 53.42% of voluntary data was provided

Reference year 2015:
- 85.28% of mandatory data was provided
- 53.87% of voluntary data was provided

Reference year 2014:
- 81.97% of mandatory data was provided
- 58.26% of voluntary data was provided

Reference year 2013:
- 75.69% of mandatory data was provided
- 53.53% of voluntary data was provided

Reference year 2012:
- 55.25% of mandatory data was provided
- 40.72% of voluntary data was provided

For any question on data and metadata, please contact: EUROPEAN STATISTICAL OFFICE OF THE EU

1. Contact

1.1. Contact organisation
Eurostat, the statistical office of the European Union

1.2. Contact organisation unit
E1: Agriculture and Fisheries

1.5. Contact mail address
2920 Luxembourg LUXEMBOURG

www.fibl.org

17. Februar 2019 20
THE ORGANIC FOOD MARKET

WHO CONSUMES THE MOST ORGANIC FOOD?

Retail sales (€) in 2016

- USA: 38.9 billion
- Canada: 3 billion
- France: 6.7 billion
- Germany: 9.5 billion
- China: 5.9 billion
- EU: 30.7 billion
新书预告

世界有机农业概况与趋势预测

2018年

世界有机农业概况与趋势预测

2016年
The 20th edition of 'The World of Organic Agriculture, was published by FiBL and IFOAM – Organics International in February 2019.

- Data tables and graphs
- Country and continent reports
- Articles about the global market, standards, policy support
- Get your copy at the FiBL Stand in Hall 1/553 or the stand of IFOAM - Organics International (1/451)
- www.organic-world.net
Special in the 2019 edition: Milestones of organic agriculture

- “The World of Organic Agriculture”
- Milestones of the Organic Cotton Sector
- Milestones of the Global Organic Market
- Milestones of Public Standards and Legislation
- Milestones of the Work of IFOAM – Organics International to Promote and Support PGS
- Milestones of Policies Supporting the Organic Sector
- Milestones of IFOAM – Organics International
- The IFOAM Organic World Congresses
- Milestones of Organic Agriculture in Africa
- Milestones of Organic Agriculture in Asia
- Milestones of Organic Agriculture in Europe
- Milestones of Organic Agriculture in the Mediterranean
- Milestones of Organic Agriculture and Agroecology in Latin America and the Caribbean
- Milestones of the Organic Sector in the United States
- Milestones of the Organic Sector in Canada
- Milestones of the History of Organics in Australia
- Milestones of the Development of Organics in the Pacific Islands
THE WORLD OF ORGANIC AGRICULTURE
2017 data

North America
- 3.2 M ha
- 19'017

Europe
- 14.6 M ha
- 397'509

Asia
- 6.1 M ha
- 1'144'263

Latin America
- 8 M ha
- 455'749

Africa
- 2.1 M ha
- 815'070

Oceania
- 35.9 M ha
- 26'750

Worldwide
- AREA 69.8 M ha
- PRODUCERS 2.9 M
- MARKET approx 92 billion €

M = million
ha = hectares
Acknowledgements

• Swiss State Secretariat of Economic Affairs SECO

• International Trade Centre ITC

• Sustainability Fund of Coop Switzerland

• Nürnberg Messe, the organizers of the BioFach World Organic Trade Fair

• 200 experts from all parts of the world contributed to the FiBL survey 2019.
Thank you very much for your attention!
Background
Background: FiBL’s data collection on organic agriculture in Europe

- Annually, the Research Institute of Organic Agriculture FiBL collects data on key indicators of organic agriculture in European Union such as area, production and trade data among national data sources (for trade data) and Eurostat (for area, production and operator data; Eurostat 2018) among a vast network of data providers.
- Data are compiled in a MySQL database, and quality checks are carried out following the ORMACODE of the EU-funded OrganicDataNetwork (OrganicDataNetwork et al 2014), much of which is based on Eurostat’s Statistics Code of Practice (Eurostat 2011).
- Checks include the comparison against the previous year, the neighbouring countries, and the overall total. In case of inconsistencies, data providers are asked for clarification.
- FiBL publishes the data annually in collaboration with IFOAM - Organics International in a statistical yearbook (Willer & Lernoud 2019).
Benefits of the global data collection

• Important tool for stakeholders, policymakers, authorities, and the industry, as well as for researchers and extension professionals.
• Useful for development programs and supporting strategies for organic agriculture and markets, and crucial for monitoring the impact of these activities.
• Contribution to the transparency in the organic sector
• Shows the contribution of organic agriculture to the Sustainable Development Goals set by the United Nations.
Contact

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