Organic Agriculture Worldwide 2016: Current Statistics

Julia Lernoud and Helga Willer

BIOFACH 2018
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February 14, 2018
The 19th edition of 'The World of Organic Agriculture', was published by FiBL and IFOAM – Organics International in February 2018.

- 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 1/555 or the stand of IFOAM - Organics International (1/451)
- www.organic-world.net
Acknowledgements

- The Swiss State Secretariat of Economic Affairs SECO, Berne
- International Trade Centre ITC
- Nürnberg Messe, the organizers of the BioFach World Organic Trade Fair
- IFOAM – Organics International
- 200 experts from all parts of the world contributed to the FiBL survey 2018.
Another record year - highlights 2016

› Organic agricultural land reached an all time high with **57.8 million hectares**
› Largest area growth do far: **7.5 million hectares more** than in 2015
› In all continents the organic area increased
› **1.2 percent** of the agricultural land is organic
› In **15 countries 10 percent** or more of the farmland is organic
› **2.7 million producers** were reported – another all time high
Development of the number of countries with data on organic agriculture

Source: FiBL-IFOAM-SOEL-Surveys 1999-2018
The ten countries with the most organic agricultural land 2016

The ten countries with the largest areas of organic agricultural land 2016
Source: FiBL survey 2018

Australia: 27.15
Argentina: 3.01
China: 2.28
United States of America: 2.03
Spain: 2.02
Italy: 1.80
Uruguay: 1.66
France: 1.54
India: 1.49
Germany: 1.25

www.fibl.org
Distribution of organic agricultural land by region 2016

Source: FiBL survey 2018

- Oceania: 47%
- Europe: 23%
- Latin America: 12%
- Asia: 9%
- North America: 6%
- Africa: 3%
- North America: 6%
- Africa: 3%
- Asia: 9%
- Latin America: 12%
- Europe: 23%
- Oceania: 47%
The countries with the highest shares of organic agricultural land 2016

Countries with organic shares of at least 10 percent 2016
Source: FiBL survey 2018

- Liechtenstein (37.7%)
- French Polynesia (31.3%)
- Samoa (22.4%)
- Austria (21.9%)
- Estonia (18.9%)
- Sweden (18.0%)
- Italy (14.5%)
- Latvia (14.3%)
- Sao Tome and Principe (13.8%)
- Switzerland (13.5%)
- Falkland Islands (Malvinas) (12.2%)
- Czech Republic (11.5%)
- Uruguay (11.5%)
- Finland (10.4%)
- French Guiana (France) (10.0%)
World: Growth of the organic farmland and organic share 1999-2016

Growth of the organic agricultural land and organic share 1999-2016
Source: FiBL-IFOAM-SOEL surveys 1999-2018

Plus 15% 2015/2016
World: Growth of organic farmland by continent 2016

Growth of the organic agricultural land by continent 2008-2016
Source: FiBL-IFOAM survey 2008-2018

Million hectares

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</thead>
<tbody>
<tr>
<td>Africa</td>
<td>0.9</td>
<td>1.1</td>
<td>1.3</td>
<td>1.8</td>
<td>1.8</td>
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<tr>
<td>Asia</td>
<td>3.4</td>
<td>2.5</td>
<td>3.2</td>
<td>3.6</td>
<td>3.6</td>
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<tr>
<td>Europe</td>
<td>4.9</td>
<td>8.3</td>
<td>10.0</td>
<td>11.2</td>
<td>11.8</td>
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<tr>
<td>Latin America</td>
<td>7.2</td>
<td>7.5</td>
<td>6.9</td>
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<tr>
<td>North America</td>
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<td>7.2</td>
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<td>7.1</td>
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<tr>
<td>Oceania</td>
<td>26.1</td>
<td>26.6</td>
<td>26.8</td>
<td>26.9</td>
<td>27.3</td>
</tr>
</tbody>
</table>

FiBL

www.fibl.org
ORGANIC FARMLAND 2016

World
57.8 Mio ha

Australia
27.1 Mio ha

1.2% of the world's farmland is organic

+420% since 1999

In Oceania there were 27.3 Mio ha, in Europe 13.5 Mio ha, and in Latin America 7.1 Mio ha.

The ten countries with the largest organic agricultural areas have combined 76% of the world's organic agricultural land.

The five countries with the largest areas of organic agricultural land 2016

Australia, Argentina, China, USA, Spain

15 countries have 10% or more of their agricultural land under organic management.

Countries top five with more than 10 percent of organic agricultural land 2016

1.2% of the world's farmland is organic

In 2016, over 7.5 million hectares were reported compared with 2015.

The five countries with the largest areas of organic agricultural land 2016

Australia, Argentina, China, USA, Spain

Distribution of organic agricultural land by region 2016

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Source: FiBL survey 2018  www.organic-world.net
**ORGANIC LAND USE 2016**

**10.6 Mio ha arable land**

Arable land constitutes 18% of the world’s organic agricultural land, and 0.7% of the world’s arable crop land. It increased by 6.2% over 2015.

**+9% more permanent crops**

4.5 Mio ha, which is 2.8% of the world’s permanent cropland, and a 8% share of the organic agricultural land.

**66% grassland**

38 Mio ha of grassland, and an almost 17% increase compared with 2015.

**39.3 Mio ha of wild collection**

The organic wild collection areas are concentrated in Europe, Africa, Asia, and Latin America.

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### Organic arable land by region 2016

- Europe: 4 Mio ha
- Africa: 2 Mio ha
- Asia: 3 Mio ha
- Latin America: 1 Mio ha

### Organic permanent crops by region 2016

- Cereals
- Green fodder
- Olseeds
- Dry pulses
- Textile crops

### Organic grassland by region 2016

- Europe: 24 Mio ha
- Africa: 5 Mio ha
- Asia: 10 Mio ha
- Latin America: 2 Mio ha

### Organic wild collection by region 2016

- Europe: 15 Mio ha
- Africa: 10 Mio ha
- Asia: 10 Mio ha
- Latin America: 4 Mio ha

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Source: FiBL survey 2018 www.organic-world.net
World: Development of land use types in organic agriculture 2004-2016

Development of the organic land by land use type 2004-2016

Source: FiBL-IFOAM-SOEL-Surveys 1999-2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Arable crops</th>
<th>Permanent crops</th>
<th>Permanent grassland</th>
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<td>2006</td>
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<td>1.4</td>
</tr>
<tr>
<td>2007</td>
<td>20.0</td>
<td>4.9</td>
<td>1.9</td>
</tr>
<tr>
<td>2008</td>
<td>22.3</td>
<td>5.1</td>
<td>2.0</td>
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<td>2009</td>
<td>22.9</td>
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<td>2010</td>
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<tr>
<td>2011</td>
<td>22.6</td>
<td>7.6</td>
<td>2.9</td>
</tr>
<tr>
<td>2012</td>
<td>22.6</td>
<td>8.0</td>
<td>3.2</td>
</tr>
<tr>
<td>2013</td>
<td>27.0</td>
<td>8.5</td>
<td>3.3</td>
</tr>
<tr>
<td>2014</td>
<td>28.3</td>
<td>8.9</td>
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<tr>
<td>2015</td>
<td>32.6</td>
<td>10.0</td>
<td>4.0</td>
</tr>
<tr>
<td>2016</td>
<td>38.0</td>
<td>10.6</td>
<td>4.5</td>
</tr>
</tbody>
</table>
World: Use of organic agricultural land 2016 (total: 57.8 million hectares)

Distribution of main land use types and crop categories 2016
Source: FiBL survey 2018; based on information from the private sector, certifiers, and governments.

Land use types 2015

- Permanent grassland: 66%
- Arable land crops: 18%
- Permanent crops: 8%
- Other agr. land: 2%

Key arable crops
- Cereals: 4.09
- Green fodders: 2.76
- Oilseeds: 1.29
- Dry pulses: 0.53
- Textile crops: 0.50

Key permanent crops
- Coffee: 0.93
- Olives: 0.75
- Nuts: 0.57
- Grapes: 0.38
- Fruit, tropical/subtrop: 0.36
Development of organic arable and permanent crops/crop groups 2004-2016

Development of organic arable crop groups 2004-2016
Source: FiBL-IFOAM-SOEL survey 2006-2018

- Vegetables
- Oilseeds
- Dry pulses
- Cereals

Development of organic permanent crops/crop groups 2004-2016
Source: FiBL-IFOAM-SOEL survey 2006-2018

- Olives
- Grapes
- Fruit, tropical and subtropical
- Fruit, temperate
- Coffee
- Cocoa
- Citrus fruit
The ten countries with the largest numbers of organic producers 2016
Source: FiBL survey 2018

- India: 835,000
- Uganda: 210,352
- Mexico: 210,000
- Ethiopia: 203,602
- Philippines: 165,994
- Tanzania: 148,610
- Peru: 91,771
- Turkey: 67,879
- Italy: 64,210
- Paraguay: 58,258

Organic producers by region 2016
Source: FiBL Survey 2018

- Asia: 40%
- Africa: 27%
- Latin America: 17%
- Europe: 14%
- North America: 1%
- Oceania: 1%
- North America: 1%
World: Development of organic producers 1999-2016

Development of the number of organic producers 1999-2016
Source: FiBL-IFOAM-SOEL-Surveys 1999-2018
The country with the most organic producers is India, followed by Uganda and Mexico.

More than 84% of the producers are in Asia, Africa, and Latin America.

There has been an increase in the number of producers by more than 300'000, or over 13% since 2015.

The five countries with the largest numbers of organic producers 2016:

- India
- Uganda
- Mexico
- Ethiopia
- Philippines

Distribution of organic producers by region 2016:

- Asia
- Africa
- Latin America
- Europe
- North America
- Oceania

Source: FiBL survey 2018 www.organic-world.net
The largest single market is the USA followed by the EU (30.7 billion €) and China. By region, North America has the lead (41.9 billion €), followed by Europe (33.5 billion €) and Asia.

The countries with the largest market for organic food are the United States (38.9 billion €), followed by Germany (9.5 billion €), France (6.7 billion €) and China (5.9 billion €).

Switzerland has the highest per capita consumption worldwide, followed by Denmark and Sweden.

The highest shares the organic market of the total market is in Denmark, followed by Luxembourg, Switzerland, Sweden, and Austria.

Switzerland has an 9.7% of the food market that is organic, while in Denmark it is 9.9%.

The five countries with the largest market for organic food are the United States (38.9 billion €), followed by Germany (9.5 billion €), France (6.7 billion €) and China (5.9 billion €).

The five countries with the highest per capita consumption are Switzerland, Denmark, Luxembourg, Sweden, and Austria.

The distribution of retail sales value by country in 2016 is as follows: Switzerland, Germany, France, China, Canada, Other (USA, UK, Italy, Denmark, Luxembourg).

Source: FiBL survey 2018 www.organic-world.net
World: Development of organic retail sales 1999-2016

Development of the organic retail sales 1999-2016
Source: FiBL surveys 2002-2018
Please note that for the years prior to 2005 data may not be complete
World: Global market: Distribution of retail sales by single market 2016

World: distribution of retail sales by single market 2016
Source: FiBL-AMI survey 2018

USA 47%
EU-28 36%
China 6%
Canada 4%
Switzerland 3%
Other 4%
World: Distribution of organic retail sales 2016

Global market: Distribution of retail sales value by country 2016
Source: FiBL-AMI survey 2018, based on retail sales with organic food

- USA: 46%
- Germany: 11%
- France: 8%
- China: 7%
- Canada: 4%
- Italy: 3%
- Switzerland: 3%

Other: 15%

Global market: Distribution of retail sales value by region 2016
Source: FiBL-AMI survey 2018, based on retail sales with organic food

- North America: 50%
- Europe: 40%
- Asia: 9%
- Latin America: 1%
- Oceania: 0.1%
The ten countries with the largest markets for organic food 2016

Source: FiBL-AMI survey 2018

- United States of America: 38,938 million euros
- Germany: 9,478 million euros
- France: 6,736 million euros
- China: 5,900 million euros
- Canada: 3,002 million euros
- Italy: 2,644 million euros
- United Kingdom: 2,460 million euros
- Switzerland: 2,298 million euros
- Sweden: 1,944 million euros
- Spain: 1,686 million euros
World: Per capita consumption 2016

The ten countries with the highest per capita consumption 2016
Source: FiBL-AMI survey 2018

- Switzerland: 274 euros
- Denmark: 227 euros
- Sweden: 197 euros
- Luxembourg: 188 euros
- Austria: 177 euros
- Liechtenstein: 171 euros
- USA: 121 euros
- Germany: 116 euros
- France: 101 euros
- Canada: 83 euros

Per capita consumption in euros
The World of Organic Agriculture 2016

**Organic Farmland 2016**
- 2.1 m ha in North America
- 13.5 m ha in Europe
- 7.1 m ha in Latin America
- 4.9 m ha in Asia
- 1.8 m ha in Africa
- 27.3 m ha in Oceania

**Organic Producers 2016**
- The number of organic producers is increasing
- 2.7 million Organic farmers
- +12.8% From 2015

**Organic Market 2016**
- The global market is growing and consumer demand is increasing
- More than 80 bn € Global organic food market in billion euros

**Organic farmland in million hectares**
- 57.8 m ha

**Countries with organic farming**
- 178
  - +15% From 2015

**Top 3 countries (land in million of hectares)**
- Australia: 27.1
- Argentina: 3.0
- China: 2.3

**Number of producers: Top 3 countries**
- 835'000
- India: 210'352
- Mexico: 210'000

Source: FiBL survey based on national sources © FiBL 2018
More information: www.organic-world.net

FiBL
Resources

• «The World of Organic Agriculture» at www.organic-world.net
• Slides and infographics at www.organic-world.net
• Twitter.com/fiblstatistics
• Interactive maps at www.organic-world.net
• Interactive data tables at statistics.fibl.org
• Interactive map at www.ifoam-eu.org
The World of Organic Agriculture at BIOFACH 2018

The session on global organic farming and market trends will take place place from 4 pm to 4.45 pm, on February 14, 2018 at BIOFACH, NürnbergMesse, Nürnberg, Germany.

(05/01/2018) At this session, the latest data on organic agriculture worldwide, regulations and organic markets will be presented and the 19th edition of The World of Organic Agriculture, the yearbook on global organic agriculture, will be launched.

Presenter
> Markus Arbenz, Executive Director, IFOAM - Organics International, Germany

Speakers
> Dr. Helga Willer, Research Institute of Organic Agriculture FiBL, Switzerland
> Julia Lernoud, Research Institute of Organic Agriculture FiBL, Switzerland
> Beate Huber, Research Institute of Organic Agriculture FiBL, Switzerland
> Amarjit Sahota, President Ecovia Intelligence, UK
> Barbara Jüggin, SECO, Swiss Cooperation Office, Switzerland

Further Information

Contact
> Helga Willer, FiBL, Frick, Switzerland

Link
> BIOFACH.de: The World of Organic Agriculture at BIOFACH 2018
Statistics.FiBL.org

Data on organic agriculture world-wide

Content
- KEY INDICATORS
- OPERATORS
- RETAIL SALES
- AREA
- MARKETS AND TRADE
- SELECTED CROPS

Last Update: 09.02.2018
Summary

• In 2016 organic farming continued to grow all time highs for organic farmland, producers, market were reached.
• However, the development varies a lot between countries and regions.
• Other than in the past ten years, area growth is accelerating, however, particularly in Europe, production is still not keeping pace with the market development.
• For better monitoring of the development of the sector and to increase transparency, data collection and processing need to be improved in many countries, in particular for market and international trade data.
The World of Organic Agriculture 2018
www.organic-world.net

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<table>
<thead>
<tr>
<th>Indicator</th>
<th>World</th>
<th>Leading countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Countries with data on certified organic agriculture</td>
<td>2016: 178 countries</td>
<td></td>
</tr>
<tr>
<td>Organic agricultural land</td>
<td>2016: 57.8 million hectares (1999: 11 million hectares)</td>
<td>Australia (27.1 million hectares)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Argentina (3.0 million hectares)</td>
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<td></td>
<td></td>
<td>China (2.3 million hectares)</td>
</tr>
<tr>
<td>Share of total agricultural land</td>
<td>2016: 1.2 %</td>
<td>Liechtenstein (37.7 %)</td>
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<td>French Polynesia (31.3 %)</td>
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<tr>
<td></td>
<td></td>
<td>Samoa (22.4%)</td>
</tr>
<tr>
<td>Further, non-agricultural organic areas (mainly wild collection)</td>
<td>2016: 39.9 million hectares</td>
<td>Finland (11.6 million hectares)</td>
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<tr>
<td></td>
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<td>Zambia (6.7 million hectares)</td>
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<tr>
<td></td>
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<td>India (4.2 million hectares)</td>
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<tr>
<td>Producers</td>
<td>2016: 2.7 million producers (1999: 200'000 producers)</td>
<td>India (835'000)</td>
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<tr>
<td></td>
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<td>Uganda (210’352)</td>
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<tr>
<td></td>
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<td>Mexico (210’000)</td>
</tr>
<tr>
<td>Organic market size</td>
<td>2016: 89.7 billion US dollars (more than 80 billion euros) (2000: 17.9 billion US dollars)</td>
<td>US (43.1 billion US dollars; 38.9 billion euros)</td>
</tr>
<tr>
<td></td>
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<td>Germany (10.5 billion US dollars; 9.5 billion euros)</td>
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<td></td>
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<td>France (7.5 billion US dollars; 6.7 billion euros)</td>
</tr>
<tr>
<td>Per capita consumption</td>
<td>2016: 12.1 US dollars (11.3 euros)</td>
<td>Switzerland (304 US dollars; 274 euros)</td>
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<td></td>
<td></td>
<td>Denmark (252 US dollars; 227 euros)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sweden (218 US dollars; 197 euros)</td>
</tr>
<tr>
<td>Number of countries with organic regulations</td>
<td>2017: 87 countries</td>
<td></td>
</tr>
<tr>
<td>Number of IFOAM affiliates</td>
<td>2017: 1’003 affiliates from 127 countries</td>
<td>India - 111 affiliates; Germany - 88 affiliates; United States- 63 affiliates; China - 56 affiliates</td>
</tr>
</tbody>
</table>