



The adventure of collecting data on organic agriculture worldwide

Helga Willer, FiBL

The World of Organic Agriculture, BIOFACH Congress

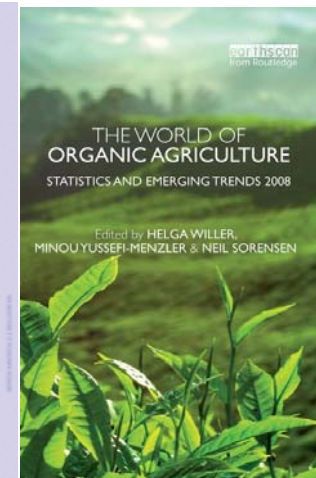
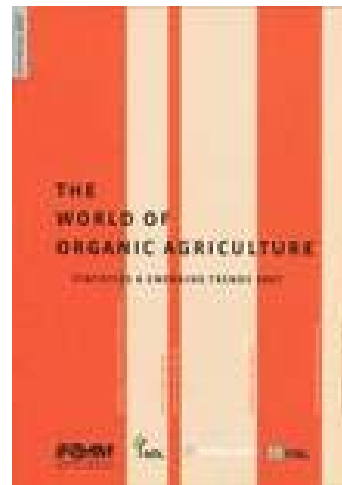
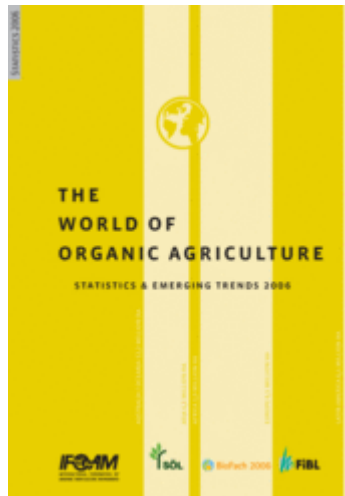
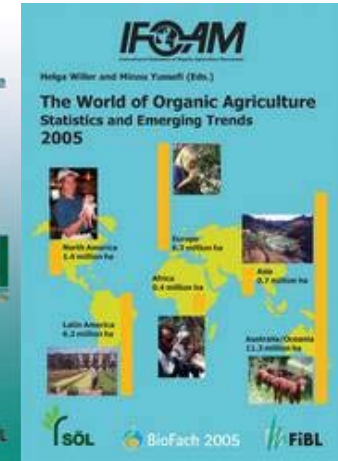
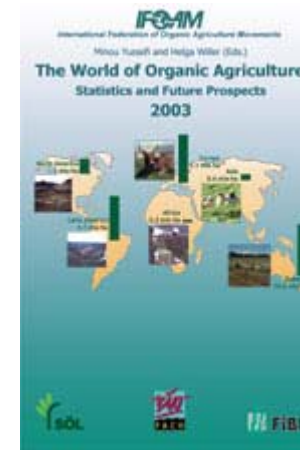
Nürnberg, February 13, 2019

20 years of data collection on organic agriculture worldwide: Milestones

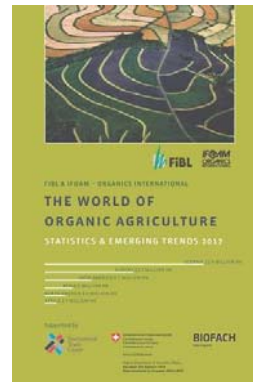
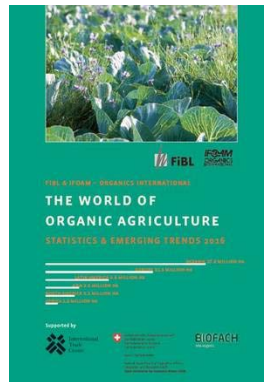
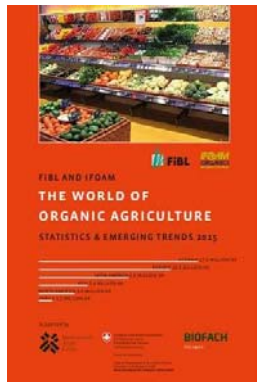
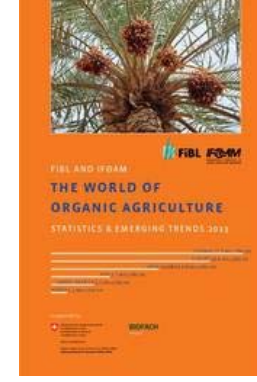
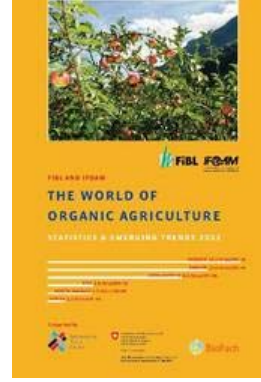
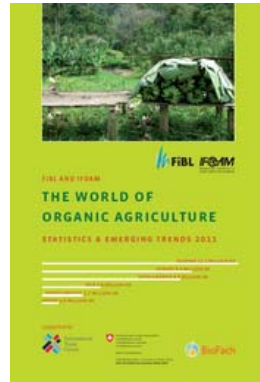
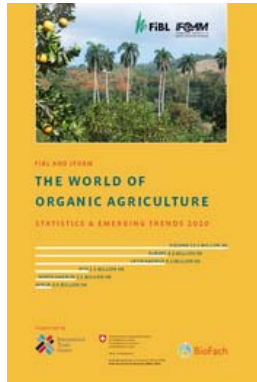
Year	Milestone
1999	The organizers of the Biofach organic trade fair ask the German Foundation Ecology & Agriculture (SÖL) to compile basic data on organic agriculture worldwide.
	11 million hectares of organic farmland; 0.2 million producers, 15.2 billion US dollars of retail sales.
2000	The first edition 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.
2001	The Research Institute of Organic Agriculture FiBL joins as a partner.
2006	For the first time, land use and crop data on organic agriculture are collected.
2007	The World of Organic Agriculture, 2007 edition, is translated into Chinese.
2008	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.
	FiBL sets up the Organic-World.net website.
	34.5 million hectares of organic farmland, 1.4 million producers, 50.2 billion US dollars in retail sales (data published in 2010).
2011	The Food and Agriculture Organisation of the United Nation (FAO) includes the FiBL data into its FAOSTAT online database.
2012	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.
	Organic and Beyond (China) translates and publishes an excerpt of “The World of Organic Agriculture” (annually since that year).
2013	The “The World of Organic Agriculture” is translated into Korean (also the 2014 edition).
2014	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.
2015	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).
2017	69.8 million hectares of organic farmland, 2.9 million producers, 97 billion US dollars in retail sales (data published in 2019).
2018	FiBL launches a dedicated website for the interactive online database – Statistics.FiBL.org.
2019	20th edition of “The World of Organic Agriculture” is launched at Biofach.
	Funding by the Sustainability Fund of Coop Switzerland (Coop Fonds für Nachhaltigkeit).
	The 2018 edition of “The World of Organic Agriculture” is translated into Persian.



The World of Organic Agriculture 2000-2009



The World of Organic Agriculture 2010-2019



Annual presentation of data at BIOFACH since 2000

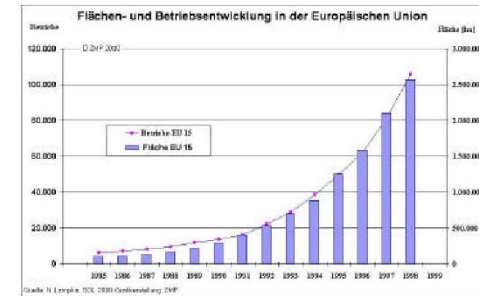


1999: Hubert Rottner and Hagen Sunder initiate the data collection



FiBL

www.fibl.org



Helga Willer und Minou Youssefi

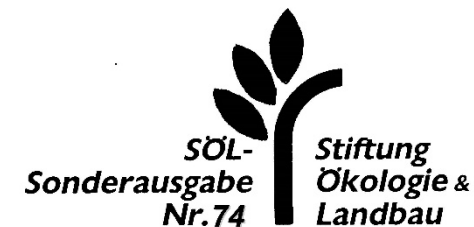
Ökologische Agrarkultur weltweit Organic Agriculture World-Wide

Statistiken und Perspektiven
Statistics and Perspectives

Gefördert durch / Sponsored by BIOFACH/Ökowelt GmbH



In Zusammenarbeit mit / In collaboration with



Early 2000s: Data collection system and network set up 2006: Land use and crop data available for the first time

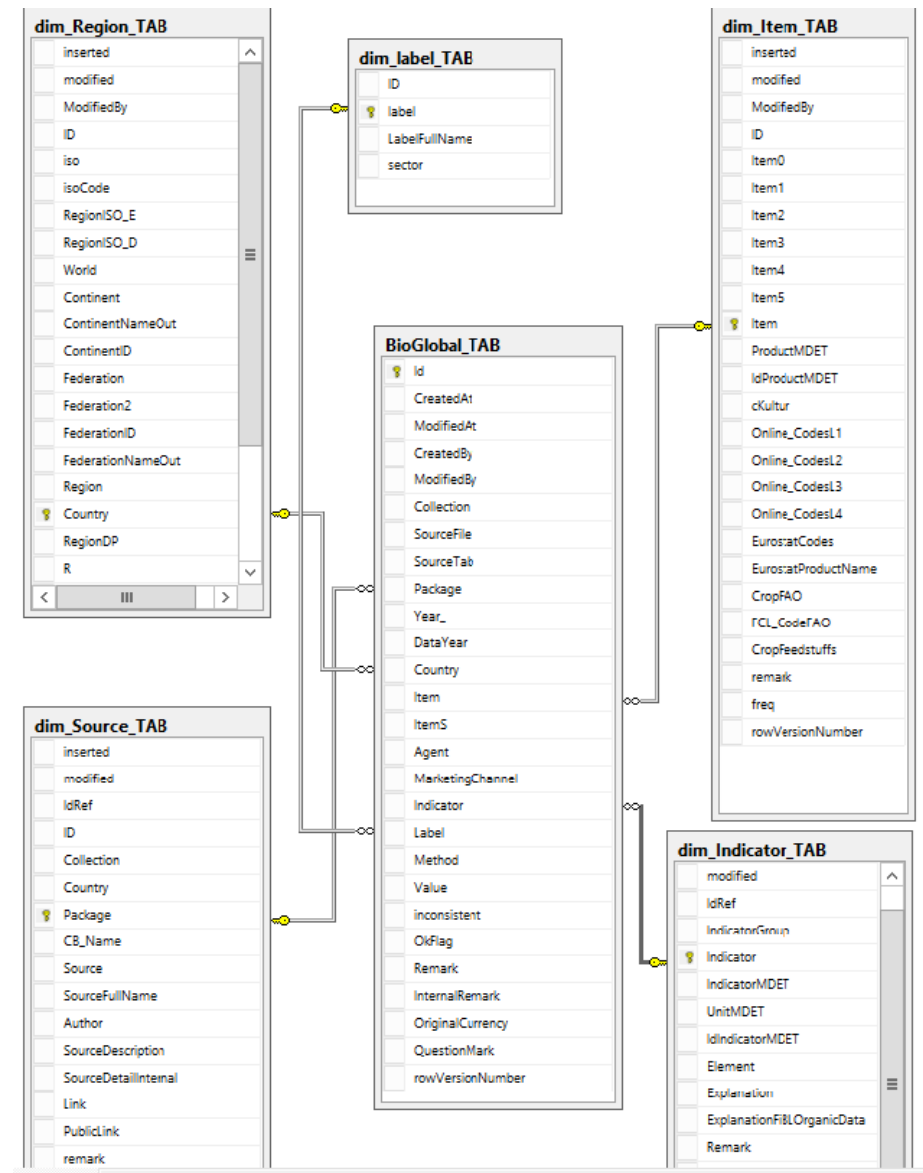
- Minou Yussefi-Menzler of Foundation Ecology & Agriculture (SÖL)
- Barbara Baraibar, today Penn State University



2008: SECO/ITC Funding starts

- Professional Questionnaire
- Professional database
- Website www.organic-world.net for data download
- Network is expanded

FiBL									
Crop area and production (for processed primary products see bottom)									
	in conversion area [ha]	fully converted area [ha]	Total organic area [ha]	Area harvested [ha]	Of which area for greenhouses [ha]	Production volume [MT]	Production volume sold under an organic label [MT]	Production value [Million EUR]	Comments
Agricultural land and crops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1 Agricultural land for which no details are available									
Arable land crops	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2 Arable land crops, no details									
Cereals for the production of grain (incl. seeds and rice)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3 Cereals for the production of grain (incl. seeds and rice), no details									
Cereals, excluding rice	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4 Cereals, excluding rice, no details									
Wheat, no details			0.0						
Durum wheat			0.0						
Common wheat and spelt, no details			0.0						
Spring wheat			0.0						
Winter wheat			0.0						
Spelt			0.0						
Rye			0.0						
Barnyard			0.0						
5 Cereals, excluding rice, no details									



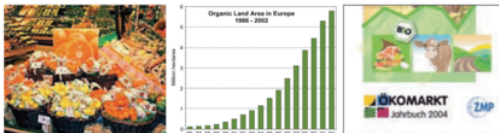
2003-2006: European Information System for organic market data

PROCEEDINGS

EISfOM European Information System for Organic Markets
A European Commission funded Concerted Action Project

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, 26-27 April, 2004



Edited by
Guido Recke, Helga Willer, Nicolas Lampkin and Alison Vaughan

Published by **FIBL**

Funded by the European Commission under the 5th Framework Programme for Research and Technological Development (Quality of Life) – Key Action 5 Sustainable Agriculture

EISfOM European Information System for Organic Markets
A European Commission funded Concerted Action Project

Need for organic production/market data

- For producers to assess costs of conversion
- For the market to achieve transparent price setting with knowledge of costs and levels of production
- For control bodies/authorities to estimate output levels for traceability and fraud prevention
- For policy-makers to set support levels and allocate resources for policy support (action plan targets)
- For researchers to evaluate policy, economic and other issues and project future trends

QLK5-2002-02400

EISfOM European Information System for Organic Markets
A European Commission funded Concerted Action Project

Problems with trade data

- Most problematic area as few good models exist
- In practice, control bodies do not collect and/or release data
- Intermediate use (e.g. animal feed) not captured
- Import approvals not always associated with quantities
- Organic not separately identified in trade statistics
- Businesses highly sensitive to commercial confidentiality issues
- Market research data quality is poor

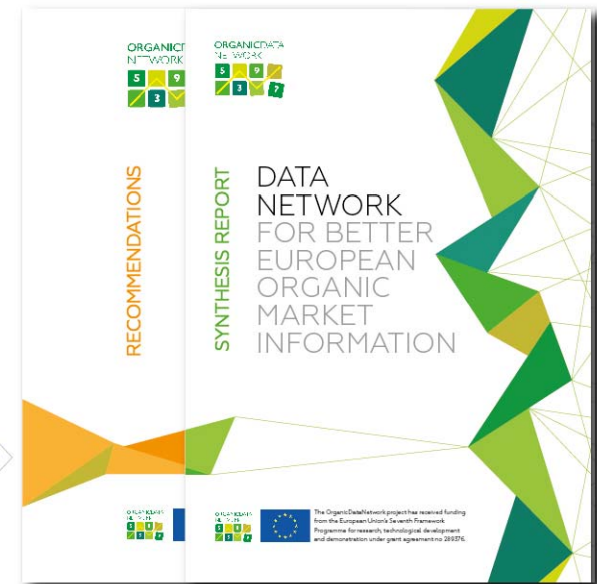
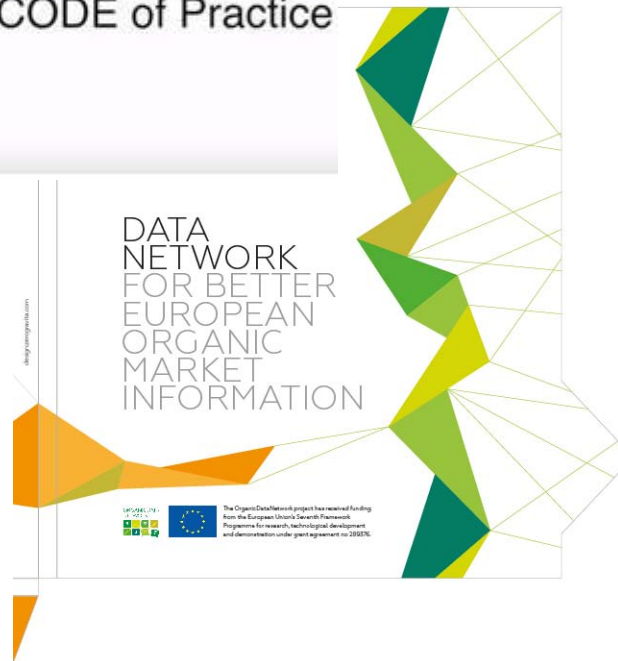
QLK5-2002-02400

2012-2014: OrganicDataNetwork

ORGANICDATA
NETWORK



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



OrganicDataNetwork team



**ORGANIC
IN EUROPE**
PROSPECTS AND
DEVELOPMENTS
2016

IFOAM | MAKING
EUROPE
EU GROUP | MORE
ORGANIC

FIBL | UNIVERSITÀ
POLITECNICA
DELLE MARCHE

2014: Data collection on Voluntary Sustainability Standards



THE STATE OF SUSTAINABLE MARKETS

STATISTICS AND EMERGING TRENDS 2015

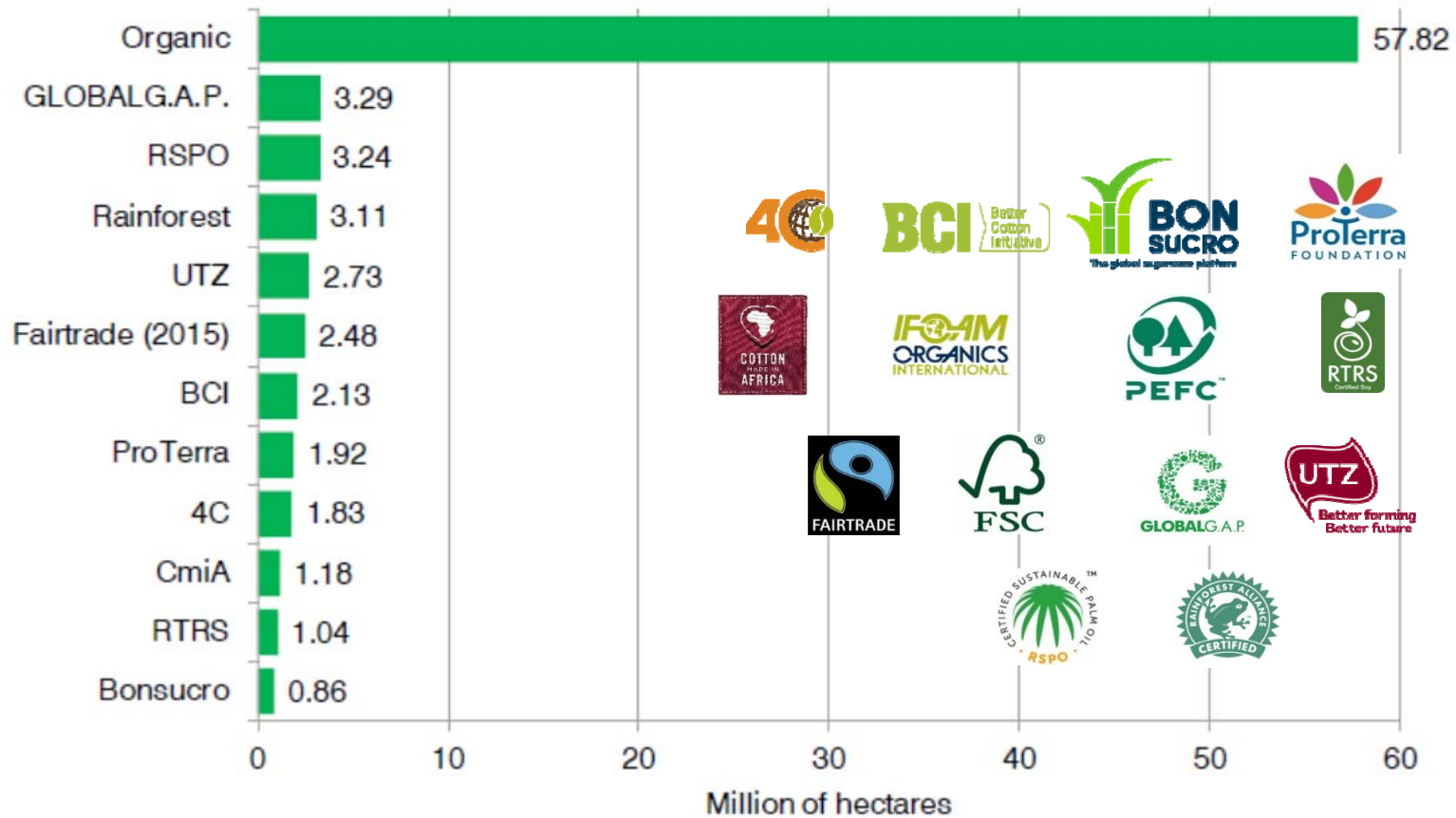


In collaboration with



Voluntary Sustainability Standards compared (2016)

Source: Lernoud et al. 2018



Data collection on Voluntary Sustainability Standards

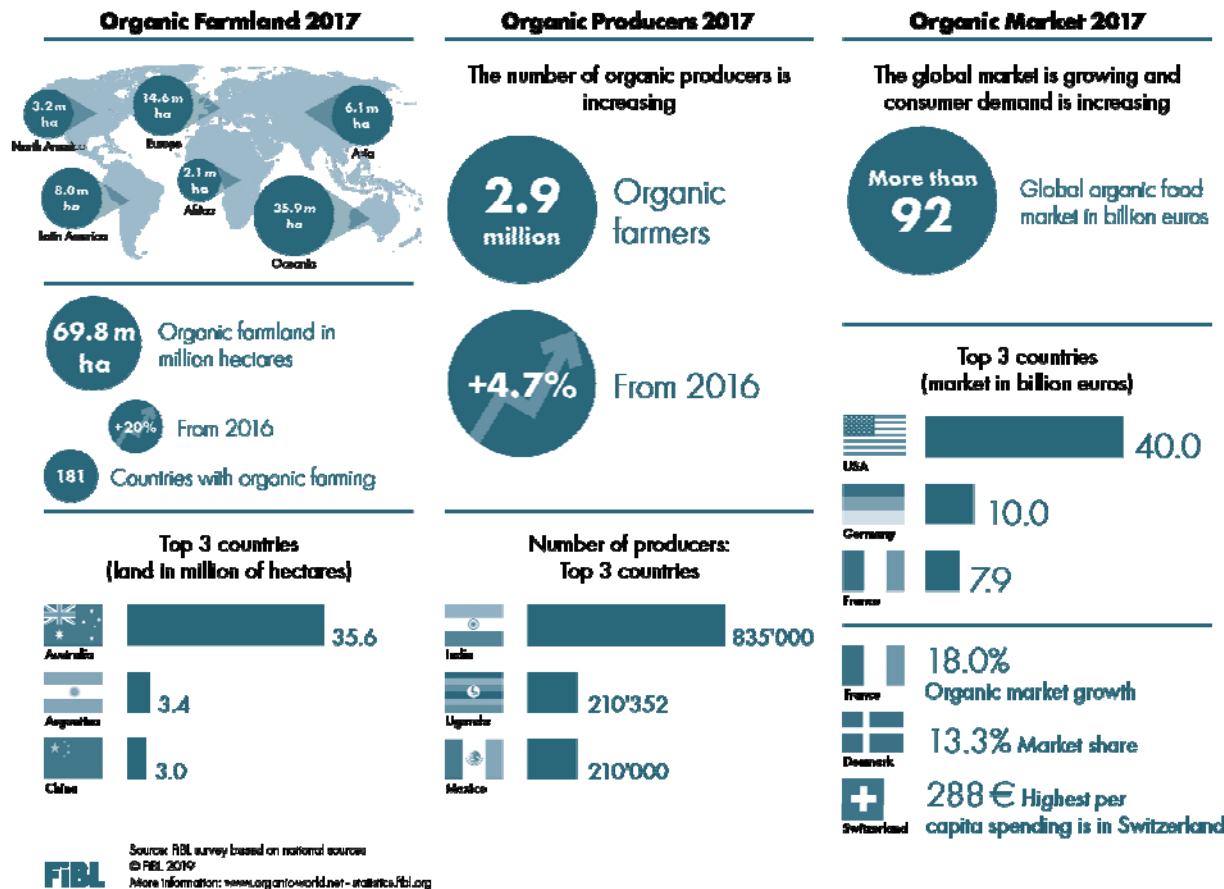


2016: Expansion of online database, available on Statistics.FiBL.org

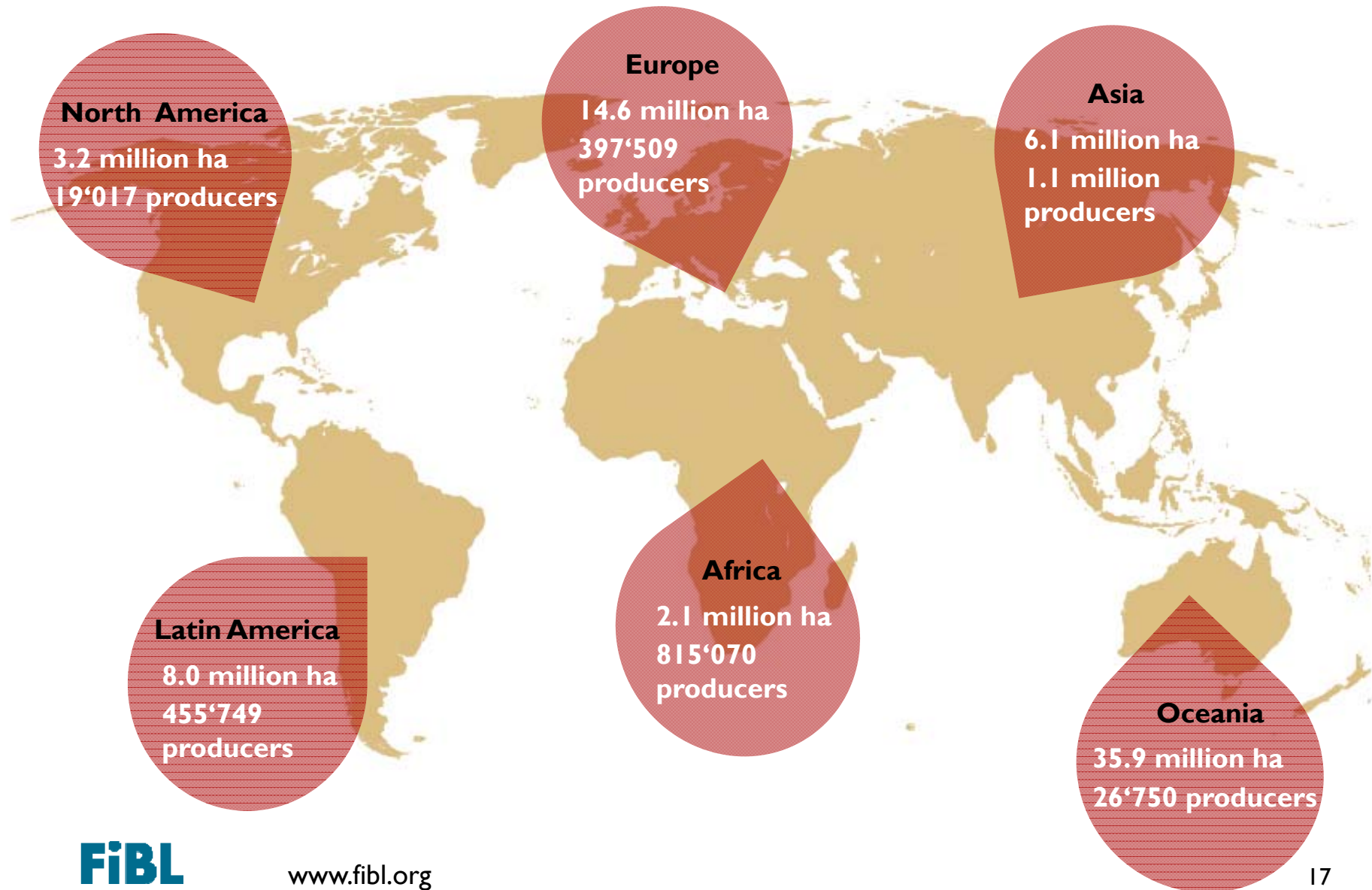
The screenshot shows the FiBL Statistics website interface. At the top left is the FiBL logo with the word 'Statistics' below it. A search icon is in the top right. A dark teal navigation bar contains the links 'WORLD', 'EUROPE', 'ABOUT', and 'CONTACT/SITE INFO'. Below the navigation bar, the page title is 'World' followed by the main heading 'Data on organic agriculture world-wide'. Underneath, the word 'Content' is followed by a grid of six teal buttons with white text and right-pointing chevrons: 'KEY INDICATORS', 'AREA', 'OPERATORS', 'MARKETS AND TRADE', 'RETAIL SALES', and 'SELECTED CROPS'. At the bottom left of the page content, it says 'Last Update: 09.02.2018'. At the bottom right, there are links for 'Print page' and a Twitter icon. A black cookie consent banner is at the very bottom, containing the text 'Cookies help us deliver our services. By using our services, you agree to our use of cookies.' and two buttons: 'OK' and 'LEARN MORE'.

2016: First infographics developed

The World of Organic Agriculture 2017



Organic agriculture worldwide 2017



FAO data on organic agriculture

[DOWNLOAD DATA](#)
[VISUALIZE DATA](#)
[METADATA](#)

COUNTRIES **REGIONS** SPECIAL GROUPS ⚙️

Filter results

- World + (Total)
- World > (List)
- Africa + (Total)
- Africa > (List)
- Eastern Africa + (Total)
- Eastern Africa > (List)

Select All Clear All

ELEMENTS

Filter results e.g. area

- Area
- Carbon stock in living biomass

Select All Clear All

ITEMS

Filter results e.g. land use > (list)

- Agricultural practices > (List)
- Agriculture area under organic agric.
- Agriculture area certified organic
- Cropland area under organic agric.
- Cropland area certified organic
- Perm. meadows & pastures area under organic a...

YEARS

Filter results e.g. 2016

- 2016
- 2015
- 2014
- 2013
- 2012
- 2011

Land Use

The FAOSTAT Land Use domain contains data on forty-seven categories of land use, irrigation and agricultural practices, relevant to monitor... [Show More](#)

Food and Agriculture Organization of the United Nations (FAO)

Bulk Downloads


All Data	605 KB
All Data Normalized	1.17 MB
All Area Groups	131 KB
Africa	114 KB
Americas	101 KB
Asia	114 KB
Europe	126 KB
Oceania	32 KB

Last Update
January 14, 2019

Related Documents

Country Notes


FAO landuse database

Show Data 

n Code	Domain	Area Code	Area	Element Code	Element	Item Code	Item	Year Code	Year	Unit	Value	Flag	Flag Description
	Land Use	1	Armenia	5110	Area	6671	Agriculture area under organic agric.	2016	2016	1000 ha	1.2	I	Country data reported by International Organizations where the country is a member (Semi-official) - WTO, EU, UNSD, etc.
	Land Use	10	Australia	5110	Area	6671	Agriculture area under organic agric.	2016	2016	1000 ha	27145	I	Country data reported by International Organizations where the country is a member (Semi-official) - WTO, EU, UNSD, etc.
	Land Use	11	Austria	5110	Area	6671	Agriculture area under organic agric.	2016	2016	1000 ha	570.8	Q	Official data reported on FAO Questionnaires from countries
	Land Use	52	Azerbaijan	5110	Area	6671	Agriculture area under organic agric.	2016	2016	1000 ha	37.63	I	Country data reported by International Organizations where the country is a

Showing 1 to 100 of 164 rows 100 records per page Previous 1 2 Next

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

[Top](#)

Eurostat metadata

Reference metadata

- [1. Contact](#)
- [2. Metadata update](#)
- [3. Statistical presentation](#)
- [4. Unit of measure](#)
- [5. Reference Period](#)
- [6. Institutional Mandate](#)
- [7. Confidentiality](#)
- [8. Release policy](#)
- [9. Frequency of dissemination](#)
- [10. Accessibility and clarity](#)
- [11. Quality management](#)
- [12. Relevance](#)
- [13. Accuracy](#)
- [14. Timeliness and punctuality](#)
- [15. Coherence and comparability](#)
- [16. Cost and Burden](#)
- [17. Data revision](#)
- [18. Statistical processing](#)
- [19. Comment](#)
- [Related Metadata](#)
- [Annexes \(including footnotes\)](#)

12. Relevance [Top](#)

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

1. Contact [Top](#)

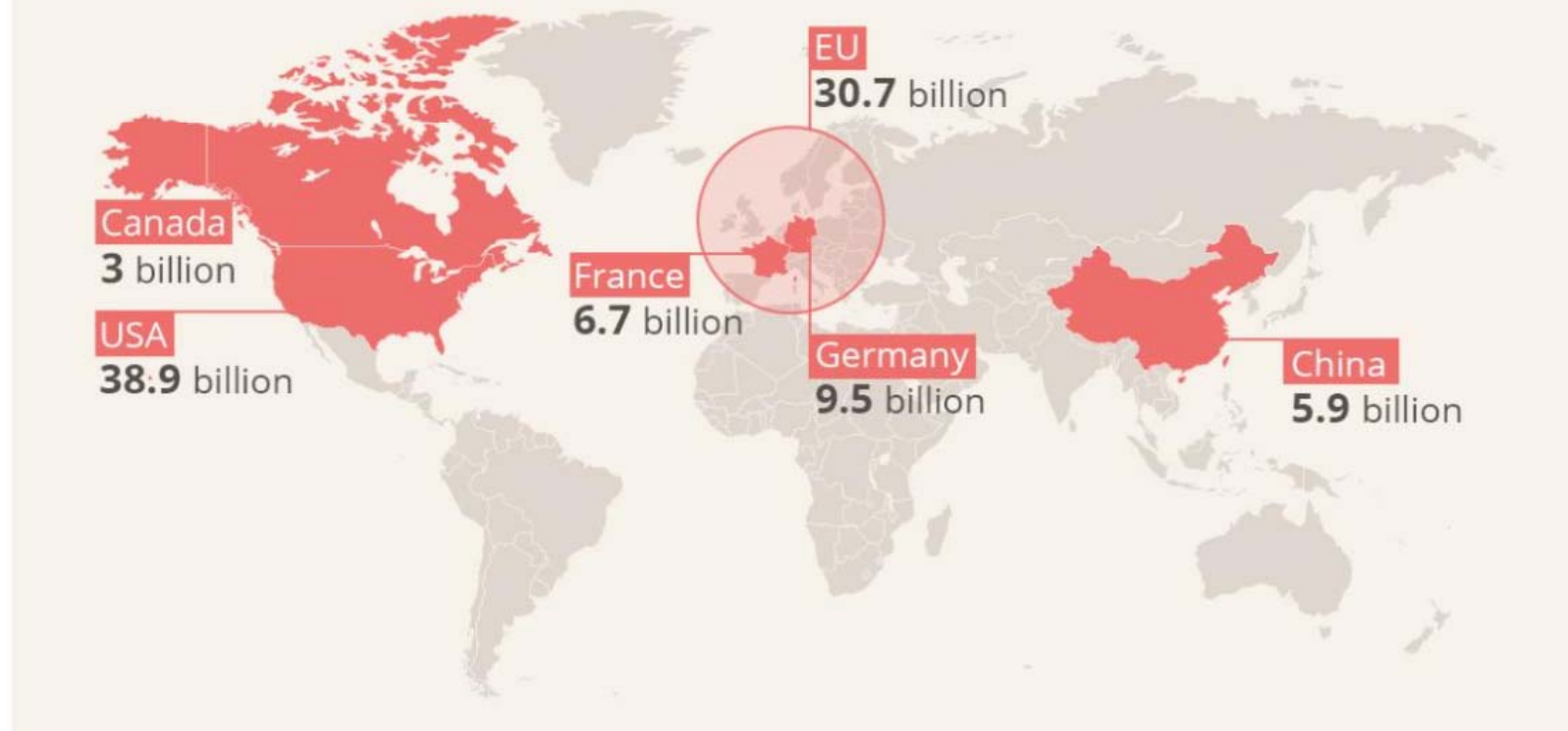
1.1. Contact organisation	Eurostat, the statistical office of the European Union
1.2. Contact organisation unit	E1: Agriculture and fisheries
1.5. Contact mail address	2920 Luxembourg LUXEMBOURG



THE ORGANIC FOOD MARKET

WHO CONSUMES THE MOST ORGANIC FOOD?

Retail sales (€) in 2016



Chinese translations

新书
预告

2018年


世界有机农业概况与趋势预测

FIBL 授权翻译整理  Organic
and
Beyond



2016年

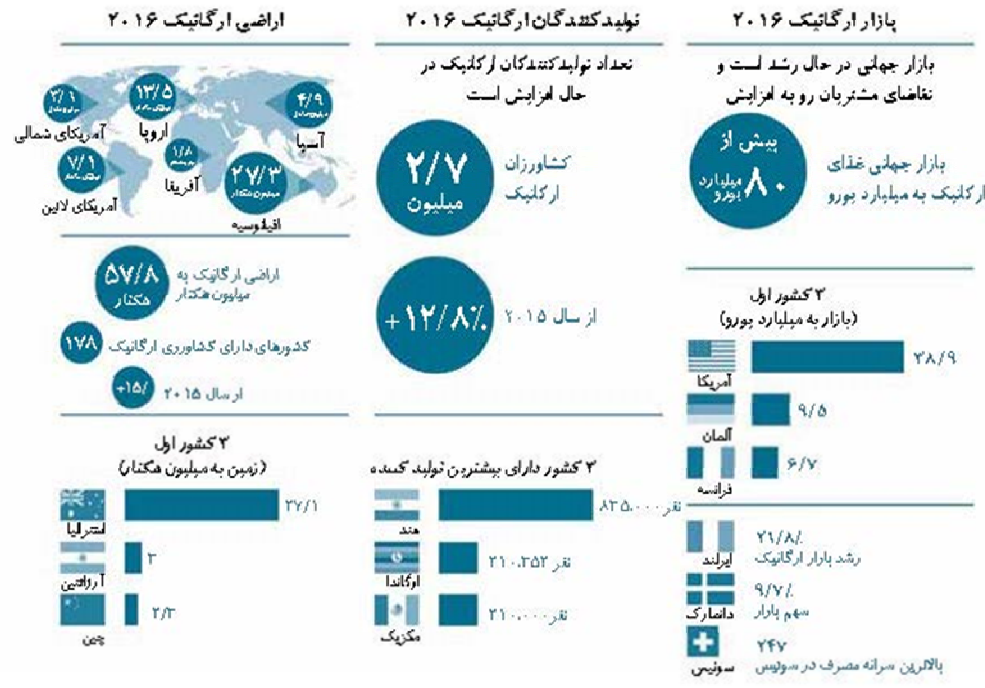
世界有机农业概况与趋势预测

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正谷有机农业技术中心翻译整理



Persian edition

دنیای کشاورزی ارگانیک سال ۲۰۱۶



اینفوگراف ۱، کشاورزی ارگانیک در سراسر جهان، شاخص‌های کلیدی ۲۰۱۶
منبع: ارزیابی سال ۲۰۱۸، FiBL

۳۳۳ آفای بازار جهانی، صنایع، مکان‌ها و کشورهای آلمانی

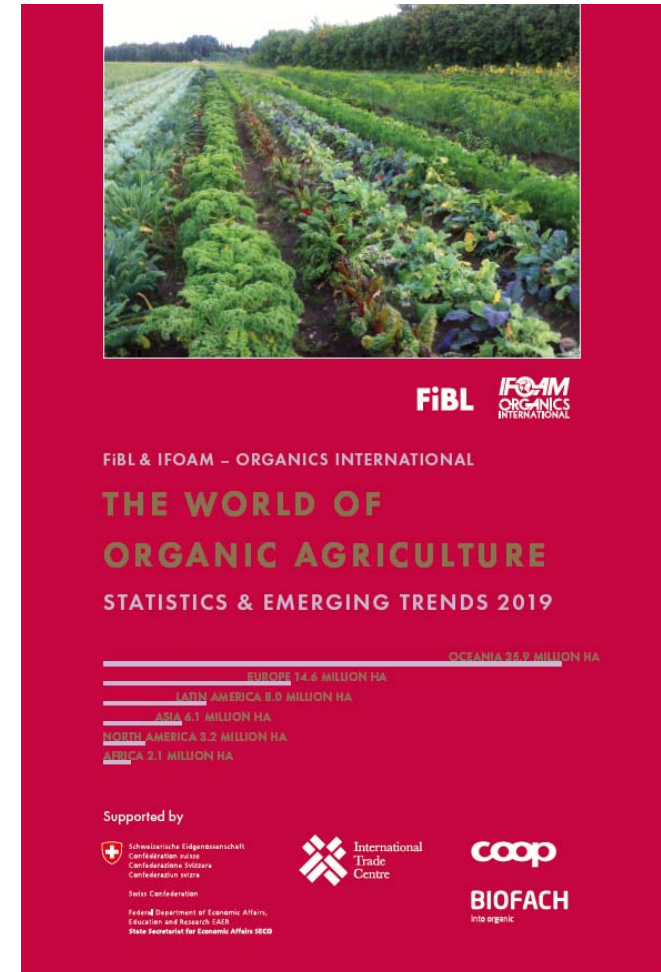
The World of Organic Agriculture 2019

www.organic-world.net

- 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

FiBL

www.fibl.org



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).
- More information: www.organic-world.net

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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