



Data Network for better European organic market information

Joint OrganicDataNetwork project database to collate organic market data

Helga Willer, Research Institute of Organic Agriculture
(FiBL), Frick, Switzerland

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- ✓ The process
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Two market data surveys

- ✓ The partners of the OrganicDataNetwork carried out two surveys on organic market data in Europe.
- ✓ The surveys covered the data per 31.12.2011 and 31.12.2012.
- ✓ Currently, as an additional effort, we are collecting the 2013 data.
- ✓ For the first time, all European market data (retail sales, exports, imports) were entered into one database.

(Eurostat provides area, livestock numbers and production data but no market data in its organic database).

Indicators used


- › Animals numbers
- › Area; area fully converted and under conversion: total and by crop
- › Operators: Exporters, importers, processors, producers
- › Production volume and value: total and by crop/product
- › Retail sales volume and value: total and by product
- › Export volume and value: total and by product
- › Import volume and value: total and by product
- › Related (calculated) indicators:
 - › Share of overall totals,
 - › growth rates,
 - › Per capita consumption

Questionnaire

- ✓ For standardized market data input, the OrganicDataNetwork partners designed a questionnaire.
- ✓ The questionnaire is an excel file with a number of data sheets – one sheet per indicator or indicator group.
- ✓ The data are entered from the questionnaire into the database.

Market and international trade data

- ✓ Total retail sales by product in the local currency and or euros and in metric tons
- ✓ Organic share (%) of the retail sales by product
- ✓ Retail sales by product and by marketing channel (in local currency/euros and in mt)
- ✓ Exports and imports (value and volumes)


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Total organic market

Domestic Market & International Trade (Sales per product group and per sales channel)	Domestic organic market VOLUME [t] (all channels)	Domestic organic market volume (hectolitres) (all channels)	Domestic organic market value, all channels (Mio EUR)	Organic share VOLUME [%]	Organic and conventional VOLUME [t]	Domestic organic market VALUE all channels (Mio EUR)	Organic share VALUE [%]	Organic and conventional VALUE [EUR]	By sales channel: General retail sales = supermarkets, hypermarkets, drugstores		By sales channel: Specialized organic retail = Stores with more than 90% organic products		By sales channel: Direct sales = On farm sales, farmer's markets		Other sales channels = box schemes, bakeries, butchers, health food shops, online-shops, filling stations, others	
									General retail sales [t]	General retail sales value [Mio EUR]	Specialized organic retail sales [t]	Specialized organic retail value [Mio EUR]	Direct sales volume [t]	Direct sales value [Mio EUR]	Other sales channels volume [t]	Other sales channels value [Mio EUR]
Food and beverages	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Food and beverages, no details</i>																
Cereals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Cereals, no details</i>																
Wheat																
Grain maize and corn cob mix																
Barley																
Rye																
Oats																
Triticale																
Buckwheat																
Rice																
<important new product, please enter>																
Other cereals																
Protein crops (dried pulses)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Protein crops (dried pulses), no details</i>																
Horse beans																
Peas																
Lupine																
<important new product, please enter>																
Other protein crops																
Oilseeds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Oilseeds, no details</i>																
Sunflower seed																
Soy																
Linseed/flax																
Rape and turnip rape																
<important new product, please enter>																
Other oil seeds																
Root crops (excluding potatoes)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Root crops, no details</i>																
Sugar beet																
<important new product, please enter>																
Other root crops																
Fresh vegetables and potatoes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Vegetables, no details</i>																
Carrots																

Different classifications are used

- ✓ Different national data collectors have developed different classifications for their needs; e.g. household or retail panels use other classifications than statistical offices.
- ✓ For the OrganicDataNetwork questionnaire and database, we used the European classifications in order to facilitate a country-to-country comparison.

Classifications used

- ✓ For organic agricultural land and crops: **Eurostat Handbook for Annual Crop Statistics** (Regulation 543/2009) (Revision 2013 – Presented in the WPM of the 12 and 13 March 2013, finalised in July 2013)
- ✓ For products: Eurostat (2008): **CPA 2008 - Statistical Classification of Products by Activity.** Eurostat, Luxembourg

Quality checks via pivot tables

- ✓ For the quality checks of the OrganicDataNetwork data we used Pivot tables as a basic tool.
- ✓ We programmed a number of tables for data checking and
- ✓ We used the “conditional formatting” function to highlight potentially inconsistent data.
- ✓ When data were inconsistent, partners tried to provide better data or an explanation as not every figure that is inconsistent to these checks is necessarily wrong.
- ✓ Explanations are entered into the database.

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Quality checks: Production quantity of arable and permanent crops: Com

For original data source and data year see last sheets
 Source: OrganicDataNetwork Survey 2013, based on national data sources, www.organicdatanetwork.net
 Highlighted are differences of more than 20 % more or less (i.e. increases/decreases of 20%)

Level5 (Alle)				Year		Indicator	2011/2012 compared
organic area				2011	2012		
Country	Level2	Level3	Level4	Production [t]	Production [t]		
Italy	Arable crops	Arable crops, other	Other arable crops, no	24'611.5	25'581.0		3.9
		Arable crops, other total		24'611.5	25'581.0		3.9
		Aromatic plants, medicinal plants		6'843.3	25'282.3		269.4
		Aromatic plants, medicinal and culinary plants total		6'843.3	25'282.3		269.4
		Cereals		112'640.3	167'750.3		48.9
		Barley					
		Cereals, no details					
		Grain maize and corn c		100'409.7	71'509.7		-28.8
		Millet					
		Oats		63'814.3	59'232.4		-7.2
		Other cereals n.e.c.		330'246.3	73'838.0		-77.6
		Rice		61'807.6	44'256.1		-28.4
		Rye		6'625.1	3'005.1		-54.6
		Triticale		16'858.1	19'148.5		13.6
		Wheat		423'169.9	427'085.5		0.9
		Cereals total		1'115'571.3	865'825.7		-22.4
		Dried pulses and protein crops for the product					
		Beans					
		Lentils					
		Lupine					
		Peas					
		Protein crops, no details		116'730.5	73'919.2		-36.7
		Dried pulses and protein crops for the product		116'730.5	73'919.2		-36.7
		Hops			2.0		2.0
		Hops total			2.0		2.0
		Industrial crops	Industrial crops, other	32'736.7	14'083.7		-57.0
		Industrial crops total		32'736.7	14'083.7		-57.0
		Mushrooms and truffles	Mushrooms and truffles	742.1			
		Mushrooms and truffles total		742.1			
		Oilseeds	Linseed (oil flax)	396.3	1'816.1		358.3
		Oilseeds, no details					
		Oilseeds, other, n.e.c.		33.3	151.2		368.7

The online database

The OrganicDataNetwork makes the data collected available at its website.

- ✓ All data collected by indicator as **MS Excel Table**
- ✓ **Interactive easy to use datatables** for selected indicators and crops
 - ✓ Key indicators (total organic area, total retail sales, total operators etc.)
 - ✓ Organic area and production by crop
 - ✓ Organic retail sales by product
 - ✓ Shares of total retail sales
 - ✓ Exports and imports

The online database

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Data

Key indicators for organic agriculture
Crop area and production
Retail sales
Share of all retail sales
Import and export
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Data

The data shown on these pages were collected by partners of the OrganicDataNetwork project and are based on national data sources and on Eurostat.

- > Data on selected indicators ([key indicators](#), [area and production](#); [retail sales](#), [organic share of all retail sales](#), [exports and imports](#)) are available as interactive tables.
- > The [full data set](#), including data on livestock numbers and retail sales by marketing channel as well as shares of organic retail sales of all retail sales are available in an MS Excel file.

Please read the [notes on data](#) carefully before using our data.

WHEN PUBLISHING THESE DATA PLEASE USE AND QUOTE ONLY WITH WRITTEN PERMISSION - Contact ✉ [helga.willer\(at\)fibl.org](mailto:helga.willer(at)fibl.org)

To quote the data please follow this model: OrganicDataNetwork (2014): Organic crops: Area and production data for selected crops - Provisional data. The OrganicDataNetwork website, last update October 5, 2014. Available at <http://www.organicdatanetwork.net/index.php?id=2661>.

Data tables

- > [Key indicators for organic agriculture](#)
- > [Crop area and production](#)
- > [Retail sales](#)
- > [Share of all retail sales](#)
- > [Import and export](#)
- > [Full data set](#)

Contact

Dr. Helga Willer
Research Institute of Organic Agriculture FiBL
Ackerstrasse 113
5070 Frick
Switzerland
Tel.+41 62 865 7207
Fax +41 62 865 7273
✉ [helga.willer\(at\)fibl.org](mailto:helga.willer(at)fibl.org)
www.fibl.org
[Personal webpage](#)

Key documents related to Organic Market Database of the OrganicDataNetwork

- > [General notes on data by indicator](#)
- > [Detailed notes on data by country, indicator, and crop/product](#) (306 KB)
- > [Detailed data sources by country and indicator](#) (321 KB)
- > [Data year for data used when no new data were available](#)

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<http://www.organicdatanetwork.net/odn-statistics.html>



Key data

Key indicators for organic agriculture - Provisional data

The data shown in these tables were collected by partners of the OrganicDataNetwork project and are based on national data sources and on Eurostat.

Please read our [notes on data](#) before you use the data.

Flagged data (*) are explained in the document [Notes on data \(306 KB\)](#).

For detailed explanations of (potentially inconsistent) data, detailed data sources, actual year of the data set and Excel files on right margin.

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Countries	Regions	SpecialGroups	Elements
Albania			Area, all [ha]
Austria			Area, share of total [%]
Belgium			Exports, all [Mio €]
Bosnia and Herzegovina			Import, all [Mio €]
Bulgaria			Operators, exporters
Croatia			Operators, importers
Cyprus			Operators, processors
Czech Republic			Operators, producers
Denmark			Sales, all [Mio €] (retail)
Estonia			Sales, all [€/person] (retail)
Finland			Sales, all: Growth (value) 1 year [%] (retail)
France			Sales, all: Share of total value [%] (retail)
Germany			Sales, ppp [€/person] (retail)
Greece			
Hungary			
Reset			Reset
Select all			Select all

Years
2012
2011
Reset
Select all

Show data

Key data for organic agriculture 2012

Item ▾ Element ▾

Country ▾

Year ▾

Item		No details								
Element		Area, all [ha]	Import, all [Mio €]	Operators, importers	Operators, processors	Operators, producers	Sales, all [Mio €] (retail)	Sales, all [€/person] (retail)	Sales, all: Share of total value [%] (retail)	Sales, ppp [€/person] (retail)
Country	Year									
France	2012	1'032'941.00	670.00	137.00	8'957.00	24'425.00	4'004.00	61.00	2.40	55.75
Germany	2012	1'034'355.00		308.00	8'293.00	23'032.00	7'040.00	86.02	3.70	85.56

Retail sales of eggs 2012

Item ▾ Element ▾

Country ▾

Year ▾

		Item	Eggs for consumption
		Element	Sales [Mio €] (retail)
Country	Year		
Austria	2012		23.67*
Denmark	2012		48.10
Finland	2012		16.30*
France	2012		237.00
Germany	2012		191.00
Netherlands	2012		30.70*
Norway	2012		13.96*
Spain	2012		40.00
Switzerland	2012		44.72
United Kingdom	2012		27.75

Item ▾ Element ▾

Country ▾

Year ▾

		Item	Eggs for consumption
		Element	Sales [Mio €]: Share [%]
Country	Year		
Austria	2012		18.30
Finland	2012		10.00*
France	2012		14.90
Germany	2012		14.10
Netherlands	2012		9.50
Switzerland	2012		20.50

Flagged data*

- ✓ Data are marked with an asterisk if an explanation is provided, e.g.
- ✓ Area data
 - ✓ Comparison data with the overall total may use different classifications or may not be complete
- ✓ Livestock data
 - ✓ Different definitions (e.g. numbers of animal might mean different things)
- ✓ Production volume
 - ✓ Production volume is usually reported for the fully converted land. This has to be taken into account when comparing the organic area and production with the total area and production.
- ✓ Retail sales volumes and values
 - ✓ Not all countries provide data on all products or complete data by product (coverage gap), hence a country to country comparison is not possible
 - ✓ Fluctuating exchange rates: Growth rates for one country and the comparison with others may be distorted

Notes on data (example of Germany)

		Grain maize and corn	For Germany, the data on import volumes do not cover all imports
		Lentils	For Germany, the data on import volumes do not cover all imports
		Linseed (oil flax)	For Germany, the data on import volumes do not cover all imports
		Lupine	For Germany, the data on import volumes do not cover all imports
		Oats	For Germany, the data on import volumes do not cover all imports
		Onions	For Germany, the data on import volumes do not cover all imports
		Peas, field	For Germany, the data on import volumes do not cover all imports
		Pork	For Germany, the data on import volumes do not cover all imports
		Rice	For Germany, the data on import volumes do not cover all imports
		Rye, no details	For Germany, the data on import volumes do not cover all imports
		Sesame	For Germany, the data on import volumes do not cover all imports
		Soybeans	For Germany, the data on import volumes do not cover all imports
		Spelt	For Germany, the data on import volumes do not cover all imports
		Strawberries	For Germany, the data on import volumes do not cover all imports
		Sunflower seed	For Germany, the data on import volumes do not cover all imports
		Sweet peppers	For Germany, the data on import volumes do not cover all imports
		Tomatoes	For Germany, the data on import volumes do not cover all imports
		Wheat, no details	For Germany, the data on import volumes do not cover all imports
		Milk	For Germany, the data on import volumes do not cover all imports
		Rape and turnip rape	For Germany, the data on import volumes do not cover all imports
		Potatoes	For Germany, the data on import volumes do not cover all imports
		Bananas	For Germany, the data on import volumes do not cover all imports
		Sugar	For Germany, the data on import volumes do not cover all imports
Production [t]	2011	Beef and veal	Sales are only about ten percent of production due to processing, coverage of household panel data, exports, and difference between carcass weight and marketable meat.
		Pork	Sales are only about ten percent of production due to processing, coverage of household panel data, exports, and difference between carcass weight and marketable meat.
		Potatoes, no details	Production seems low für the area.
	2012	Beef and veal	Sales are only about ten percent of production due to processing, coverage of household panel data, exports, and difference between carcass weight and marketable meat.
Sales [Mio €]	2011	Alcoholic beverages,	For Germany the data on retail sales by product do not cover the whole market
		Apples	For Germany the data on retail sales by product do not cover the whole market
		Asparagus	For Germany the data on retail sales by product do not cover the whole market
		Baby food	For Germany the data on retail sales by product do not cover the whole market
		Bakery products, oth	For Germany the data on retail sales by product do not cover the whole market
		Bananas, no details	For Germany the data on retail sales by product do not cover the whole market

Data sources

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Data sources for all indicators used in the OrganicDataNetwork database

Source: OrganicDataNetwork Surveys 2012-2014, based on national data sources and Eurostat; www.organicdatanetwork.net

Last update: 02 December 2014

Anzahl					
Country	Indicator	year	Source	Source description	
Czech Repub	Animals [heads]	2011	IEAI	Source: Institute of Agricultural Economics and Information (IAEI), Agri-environmental policy, Kotlarska 53, 602 00 Brno, Czech Republic. Data provided by Andrea Hrabalová, Institute of Agricultural Economics and Information (IAEI)	
		2012	UZEI	Source: UZEI, Institute of Agricultural Economics and Information, Agri-environmental policy, Kotlarska 53, 602 00 Brno, Czech Republic. Data provided by Andrea Hrabalová, UZEI, Brno, Czech Republic and Ing. Jakub Husák, Ph.D., CULS, Prague	
		2013	UZEI	Source: UZEI, Institute of Agricultural Economics and Information, Agri-environmental policy, Kotlarska 53, 602 00 Brno, Czech Republic. Data provided by Hana Šejnohová, UZEI, Brno, Czech Republic. Data 2013	
	Area [ha]	2011	IEAI	Source: Institute of Agricultural Economics and Information (IAEI), Agri-environmental policy, Kotlarska 53, 602 00 Brno, Czech Republic. Data provided by Andrea Hrabalová, Institute of Agricultural Economics and Information (IAEI)	
		2012	UZEI	Source: UZEI, Institute of Agricultural Economics and Information, Agri-environmental policy, Kotlarska 53, 602 00 Brno, Czech Republic. Data provided by Andrea Hrabalová, UZEI, Brno, Czech Republic and Ing. Jakub Husák, Ph.D., CULS, Prague	
		2013	UZEI	Source: UZEI, Institute of Agricultural Economics and Information, Agri-environmental policy, Kotlarska 53, 602 00 Brno, Czech Republic. Data provided by Hana Šejnohová, UZEI, Brno, Czech Republic. Data 2013	
	Area fully converted [ha]	2011	IEAI	Source: Institute of Agricultural Economics and Information (IAEI), Agri-environmental policy, Kotlarska 53, 602 00 Brno, Czech Republic. Data provided by Andrea Hrabalová, Institute of Agricultural Economics and Information (IAEI)	

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Weblinks

- ✓ <http://www.organicdatanetwork.net/odn-statistics.html>
- ✓ <http://www.organicdatanetwork.net/odn-statistics-data.html>
- ✓ <http://www.organicdatanetwork.net/odn-statistics-data-key-data.html>
- ✓ <http://www.organicdatanetwork.net/odn-statistics-data-crops.html>
- ✓ <http://www.organicdatanetwork.net/odn-statistics-data-retail.html>
- ✓ <http://www.organicdatanetwork.net/odn-statistics-data-retail-share.html>
- ✓ <http://www.organicdatanetwork.net/odn-statistics-data-full-set.html>

Challenges of the European database

The surveys on European published market data have shown that a number of challenges are associated with these data. They include

- ✓ **Lack of data and incomplete data (coverage gap);**
- ✓ **Different classifications for market data;**
- ✓ **Differences in definitions;**
- ✓ **Quality issues.**

Entering these data into one European database is therefore not easy.

The current data situation makes country-to-country comparisons very difficult and the calculation of e.g. a total European/EU value for any product is impossible.

Lack of data and incomplete data

- ✓ Due to different methodologies of data collection it is tricky to store the market data from the various countries in one database.
- ✓ An easy country-to-country comparison, in particular for retail sales, is often not possible.
 - ✓ For many countries, publically available data are incomplete and do not cover the whole product range but only selected products (e.g. Austria).
 - ✓ Also for the products reported, the reported value or volume may be incomplete for some countries (e.g. Austria, Germany) but not for others (Italy, France).
- ✓ Therefore, conclusions can only be drawn with care.

Different classifications for market data

- ✓ Data classifications and aggregations can differ from country to country, making data storage and comparisons difficult, e.g.
 - ✓ Switzerland has a (European-wide unique) group for breakfast cereals and pet food, with no further breakdown.
 - ✓ Estonia has only a total figure for bread and bakery products & grain mill products together without further breakdown.
- ✓ Most other countries (including CPA) separate the mentioned groups – so where to put these country-specific groups? Make new group in the database or group them as „food (?) products, no details“?

Definitions of indicators

- ✓ Definitions can vary from country to country, for instance:
 - ✓ the indicator “livestock numbers” may refer to the animals slaughtered in a year or the number of places.
 - ✓ The indicator “area” usually refers to the agricultural land but can, in some cases, include wild collection areas.
 - ✓ For some countries, the data on the domestic market may include the catering sales, for others not.

Quality issues

- ✓ When processing the data of the OrganicDataNetwork surveys, it became obvious that many quality issues arise.
- ✓ The plausibility checks showed a lot of potentially inconsistent data, some of which could be explained by the partners or better data were found.
- ✓ However, not in all cases questions were solved, and there were figures that were clearly implausible if compared with a country's total, with the data from the previous year or from neighbouring countries.

Conclusions

- ✓ Close data and coverage gaps (e.g. by integrating organic market data collection into national, official collection systems).
- ✓ Harmonize crop and product classifications by using European classifications.
- ✓ Provide and harmonize definitions for indicators.
- ✓ Carry out quality checks (and revise data or provide explanations).

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The opinions expressed in this contribution are those of the author and do not necessarily represent the views of the European Commission.

Thanks for listening
Any questions?