



EXCELLENCE FOR SUSTAINABILITY

Research Institute of Organic Agriculture  
Forschungsinstitut für biologischen Landbau  
Institut de recherche de l'agriculture biologique



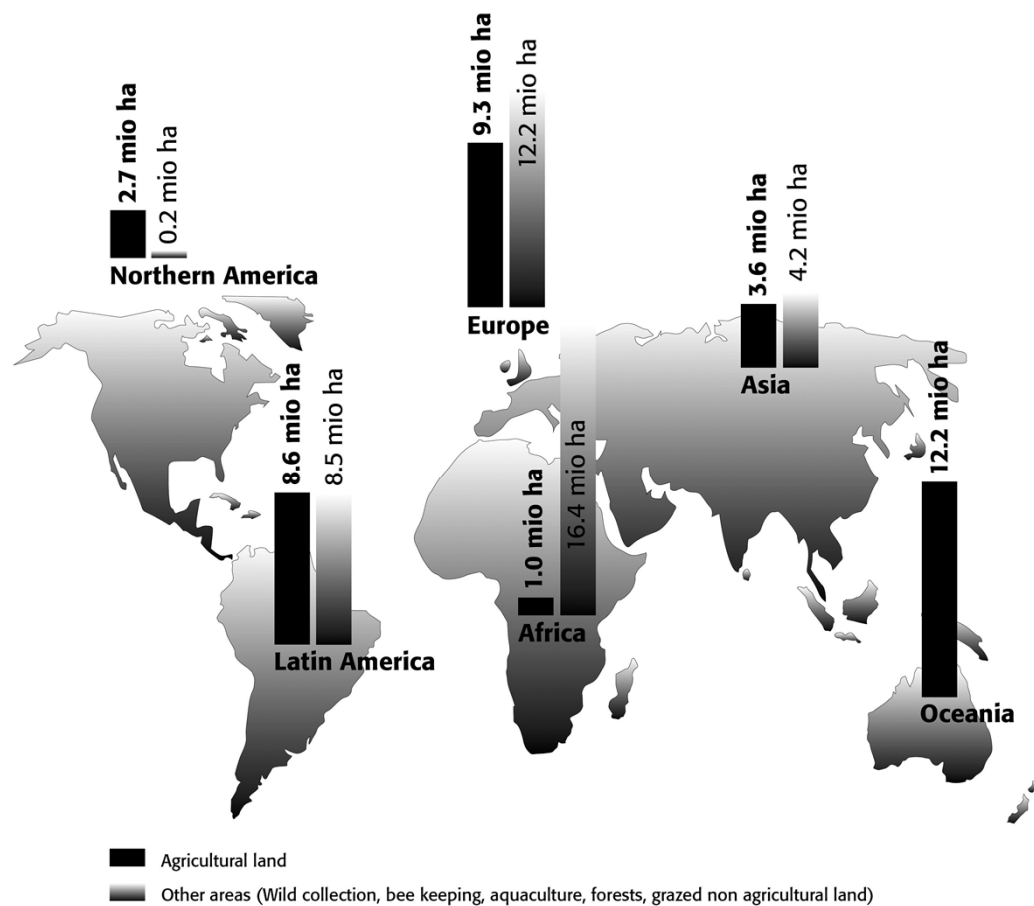
# Data collection on organic agriculture worldwide

Helga Willer, Research Institute of Organic Agriculture (FiBL)  
IFOAM Organic World Congress, September 28 - October 2, 2011, Presentation at the  
Workshop on data collection in organic agriculture on September 29, 2011

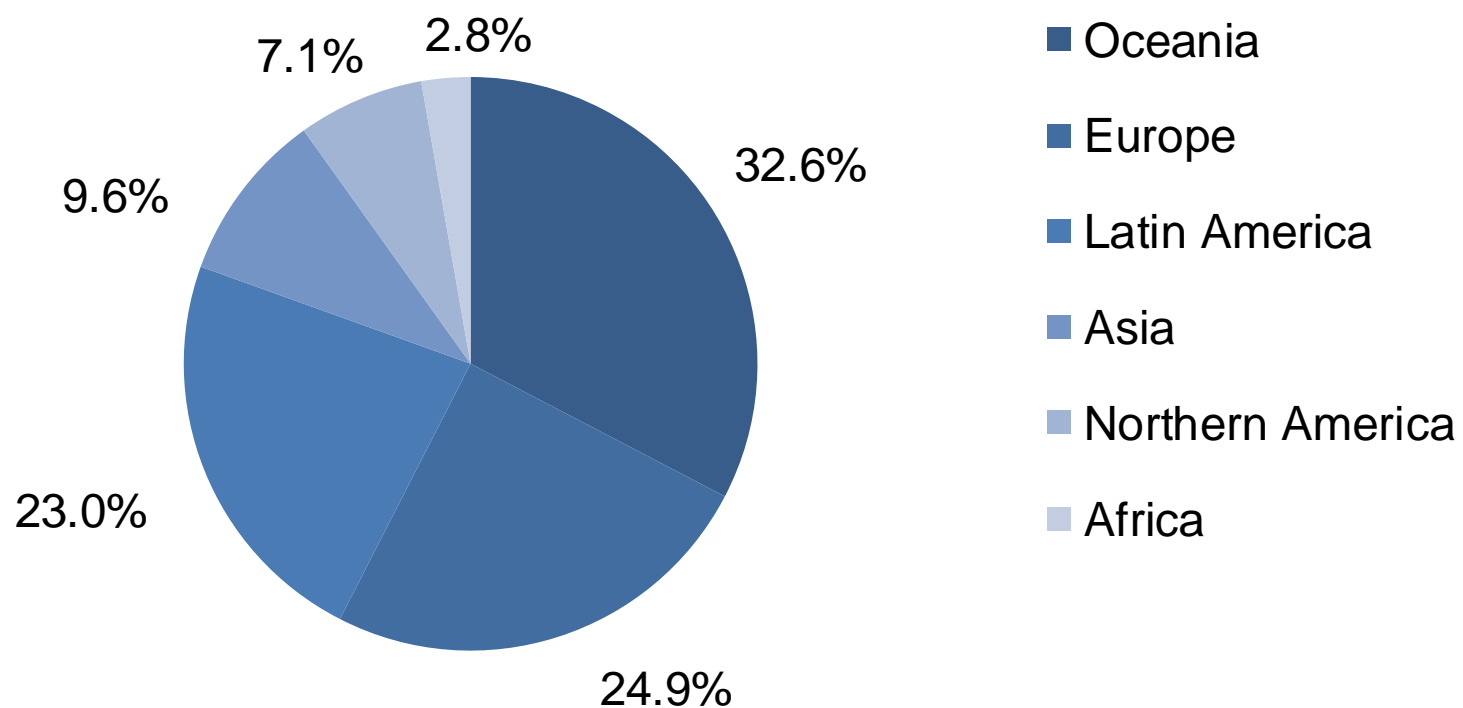
# Countries and territories covered by the global survey on organic agriculture 2009

	Countries with data on organic agriculture	Countries per region	Share of countries that provided data (%)
Africa	38	57	67%
Asia	37	49	76%
Europe	45	46	98%
South & Central America, Caribbean	29	45	64%
North America	2	5	40%
Oceania	9	13	69%
World	160	214	75%

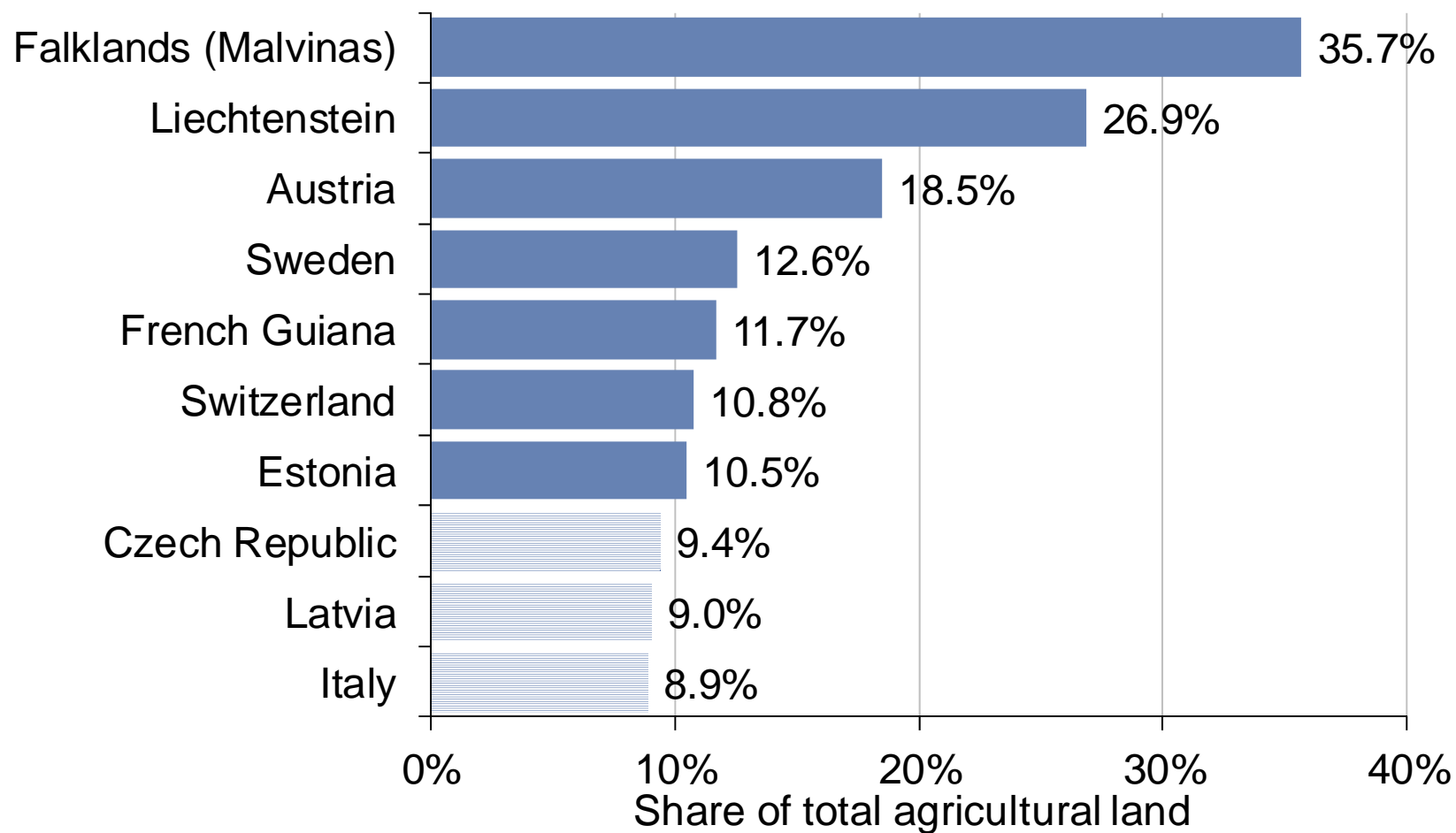
# Organic agricultural land and other organic areas 2009



# Distribution of organic agricultural land by region 2009

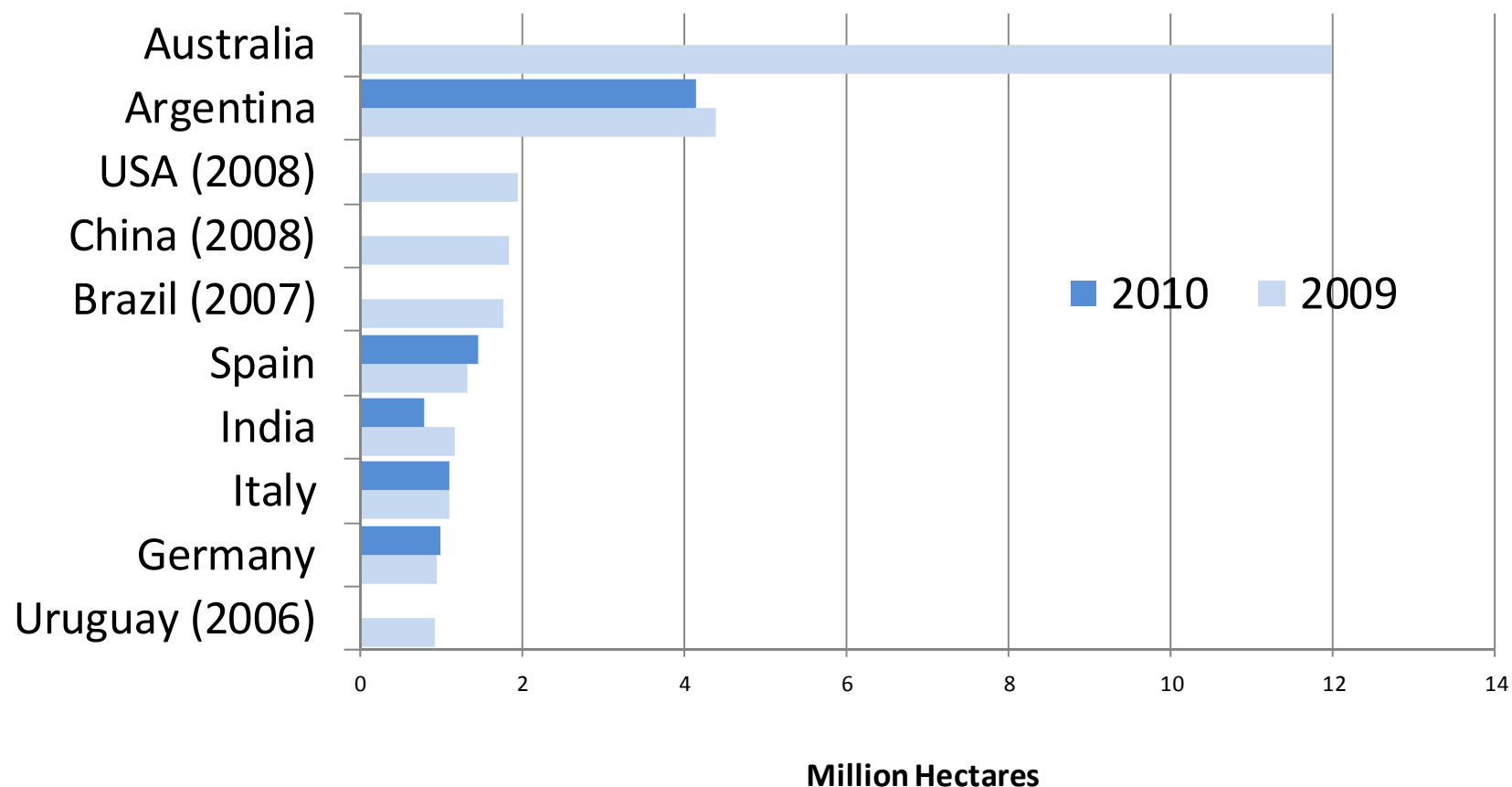


# The ten countries/areas with the highest shares of organic agricultural land 2009



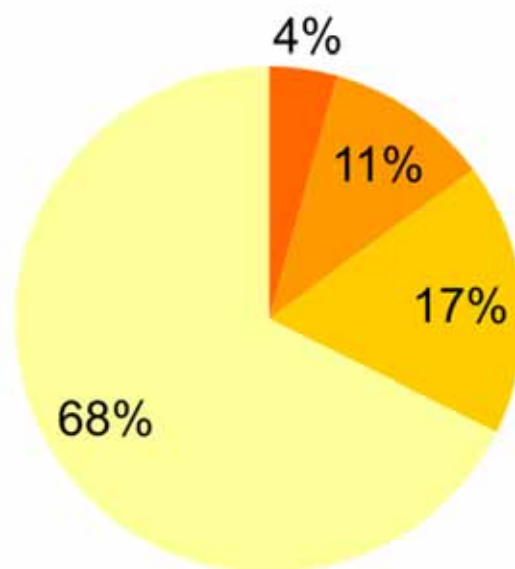
Source: FiBL/IFOAM Survey 2011, based on data from governments, organic sector organisations and certifiers.

# World: The ten countries with the most organic agricultural land 2009/2010



Argentina, US and Uruguay: Only fully converted areas

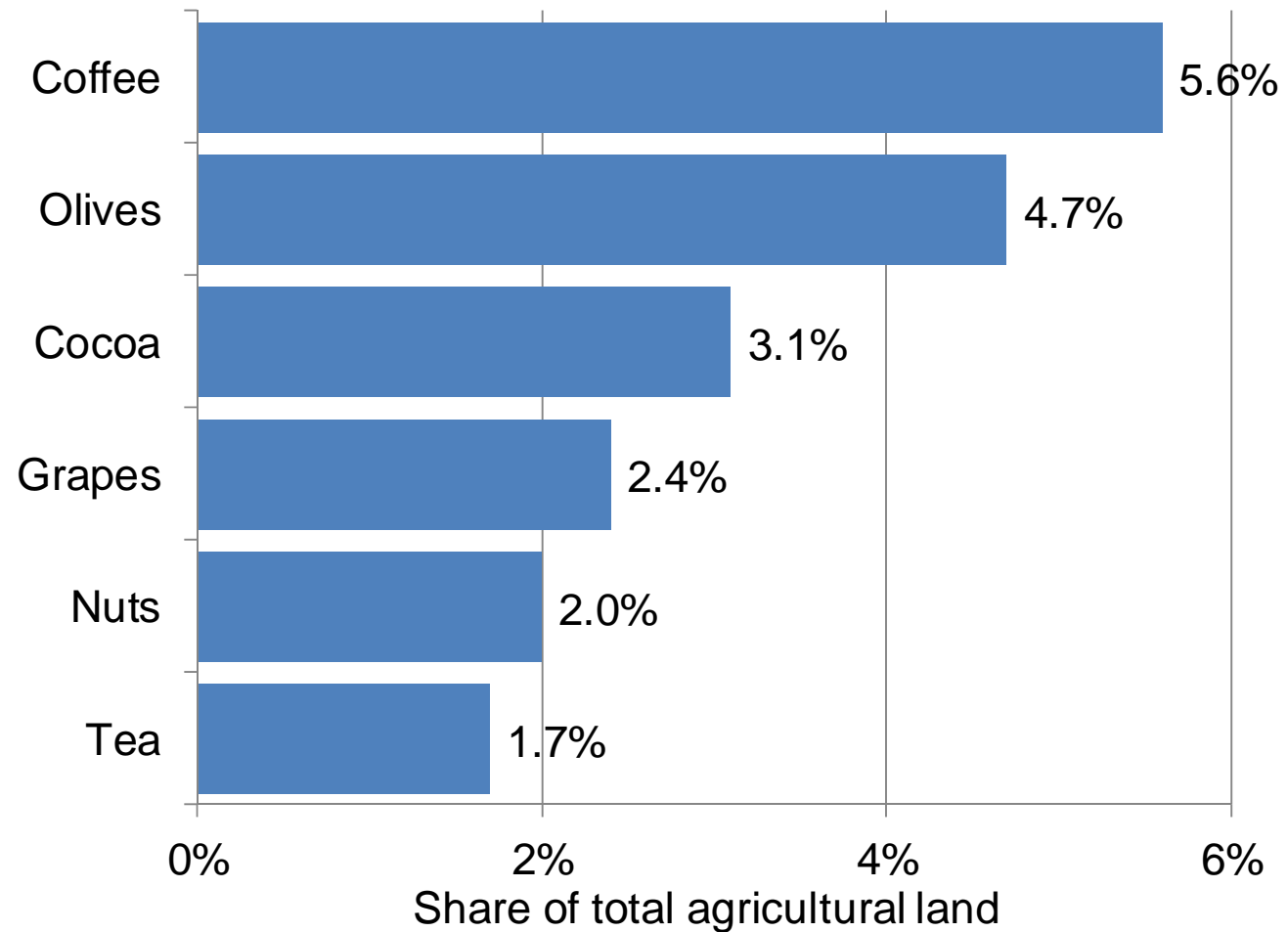
# Distribution of organic shares of the total agricultural areas 2009 (total countries 160)



■ Countries with > 10 % of total agr. land    ■ Countries with 5-10 % of total agr. land  
■ Countries with 1-5 % of total agr. land    ■ Countries with <1 % of total agr. land

# Shares of some key crops of the respective total area (2009)

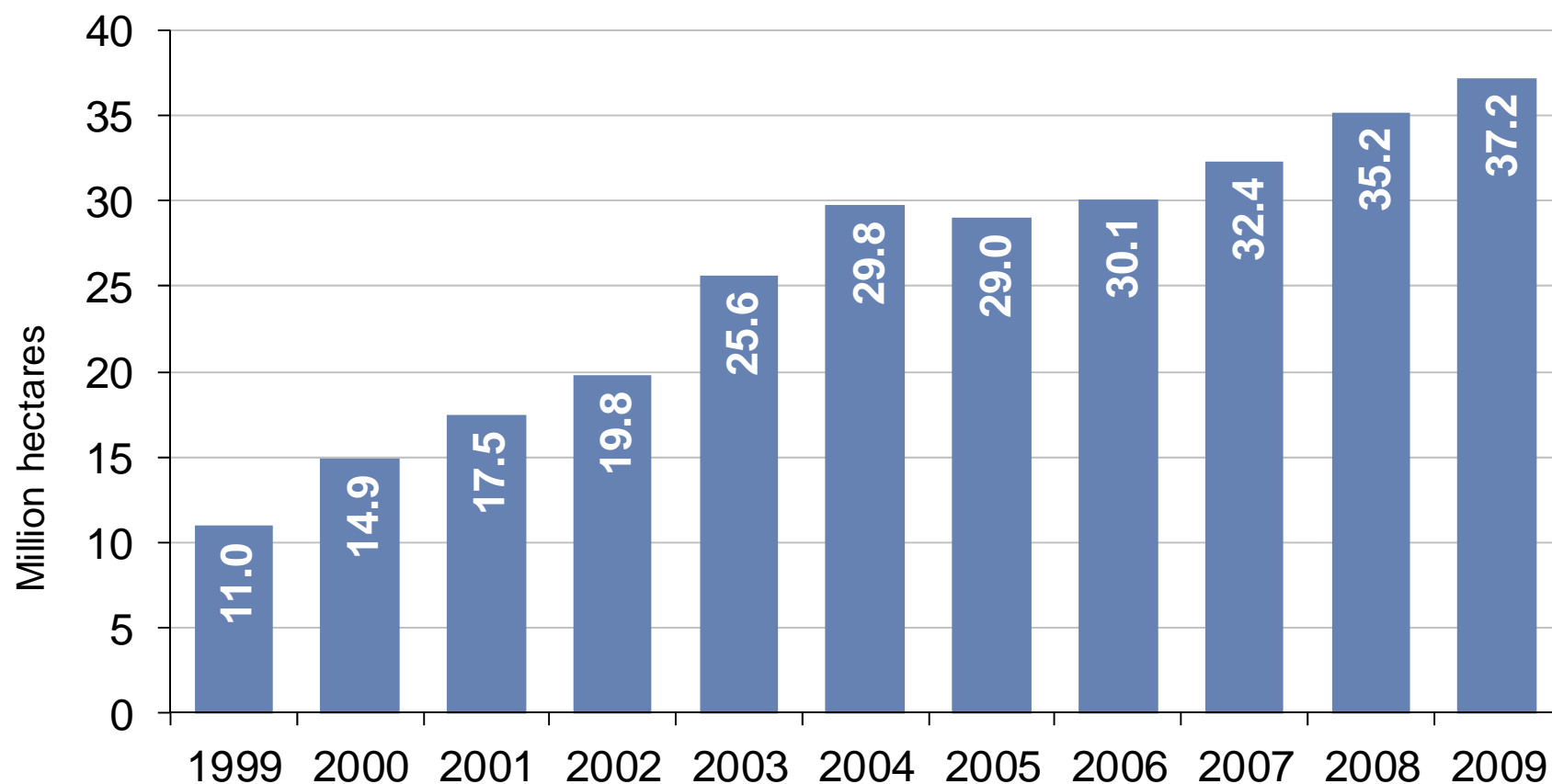
(not for all countries with data on organic farming land use data were available)



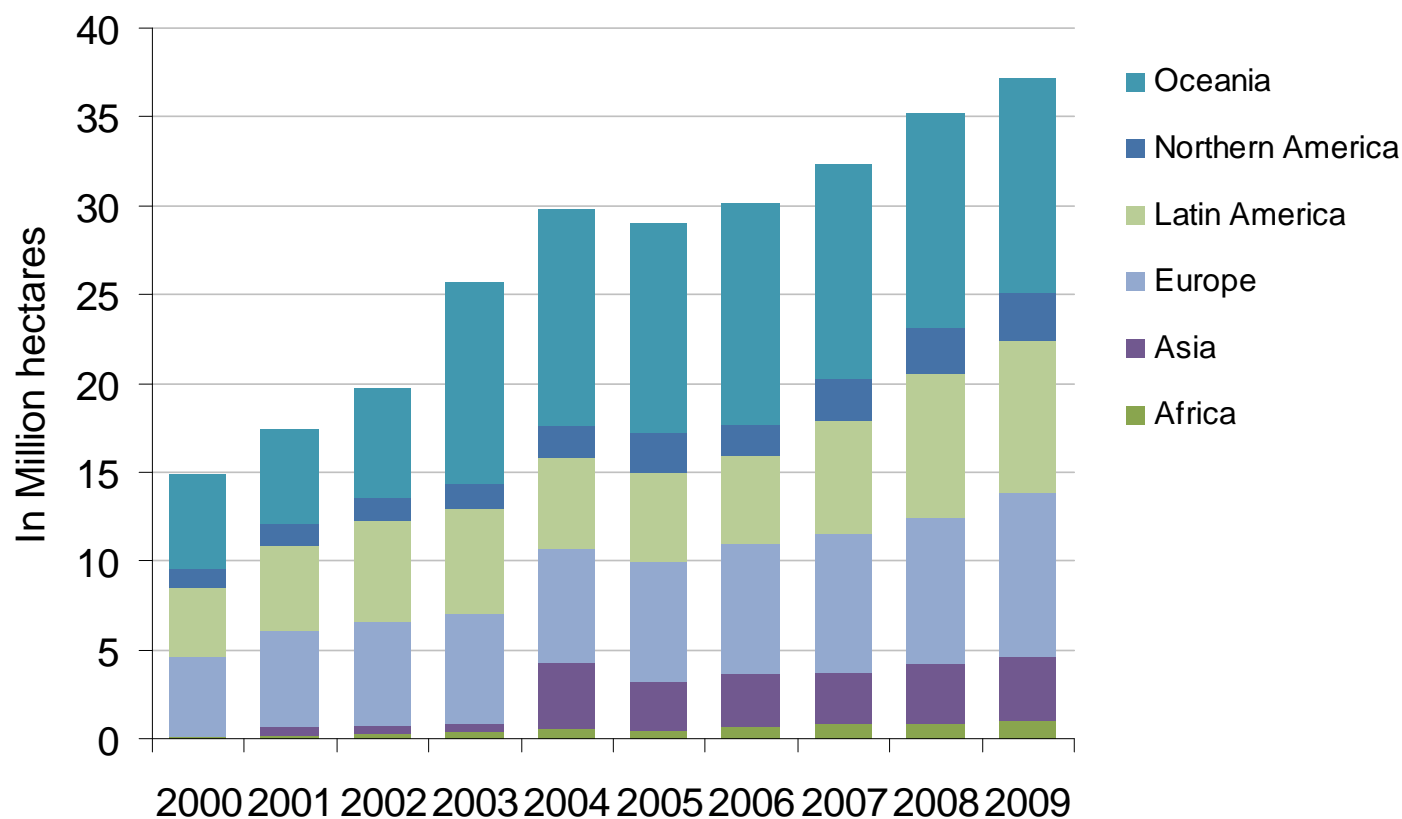
Source: FiBL/IFOAM Survey 2011, based on data from governments, organic sector organisations and certifiers.



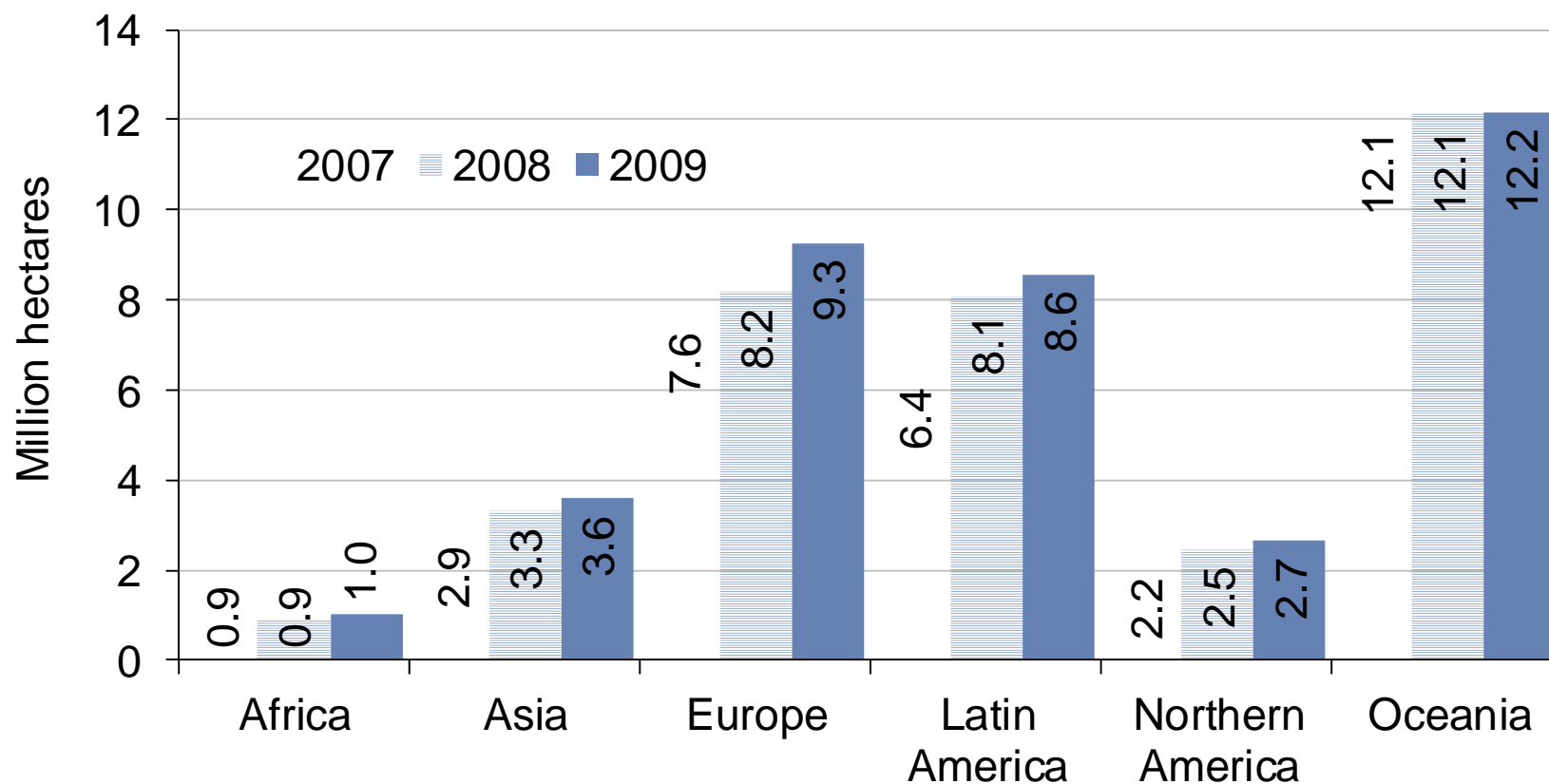
# World: Development of organic agricultural land 1999-2009



# World: Development of organic agricultural land by region 1999-2009

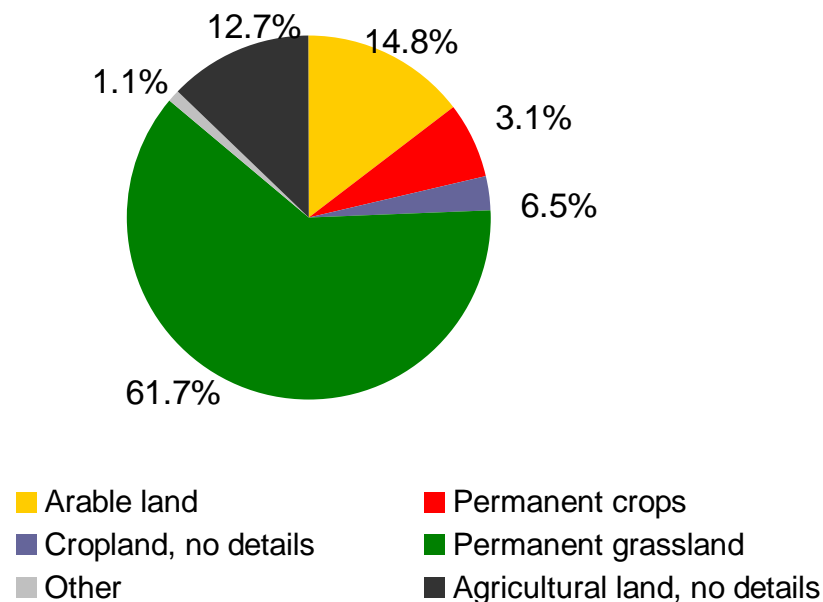


# World: Development of organic agricultural land 2007 to 2009 by geographical region

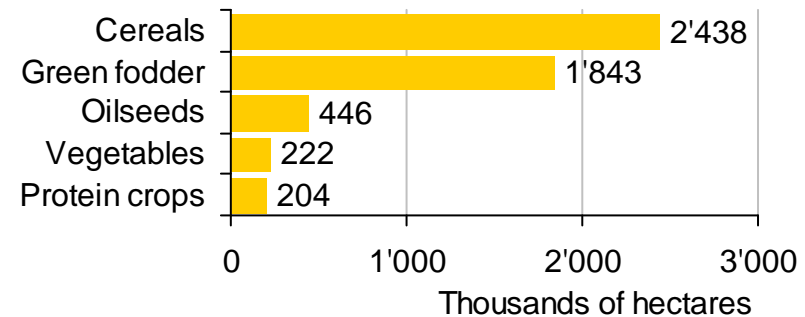


# World: Use of organic agricultural land 2009 (total: 37.2 million hectares)

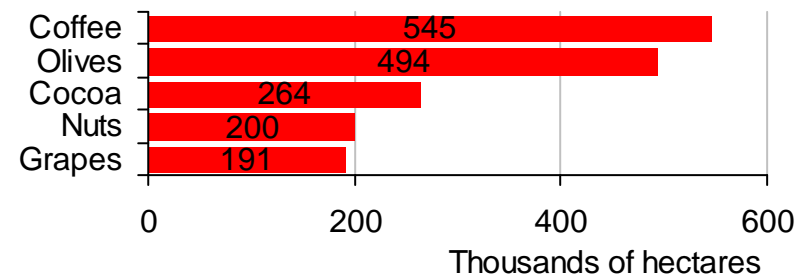
Distribution of main agricultural land use types 2008



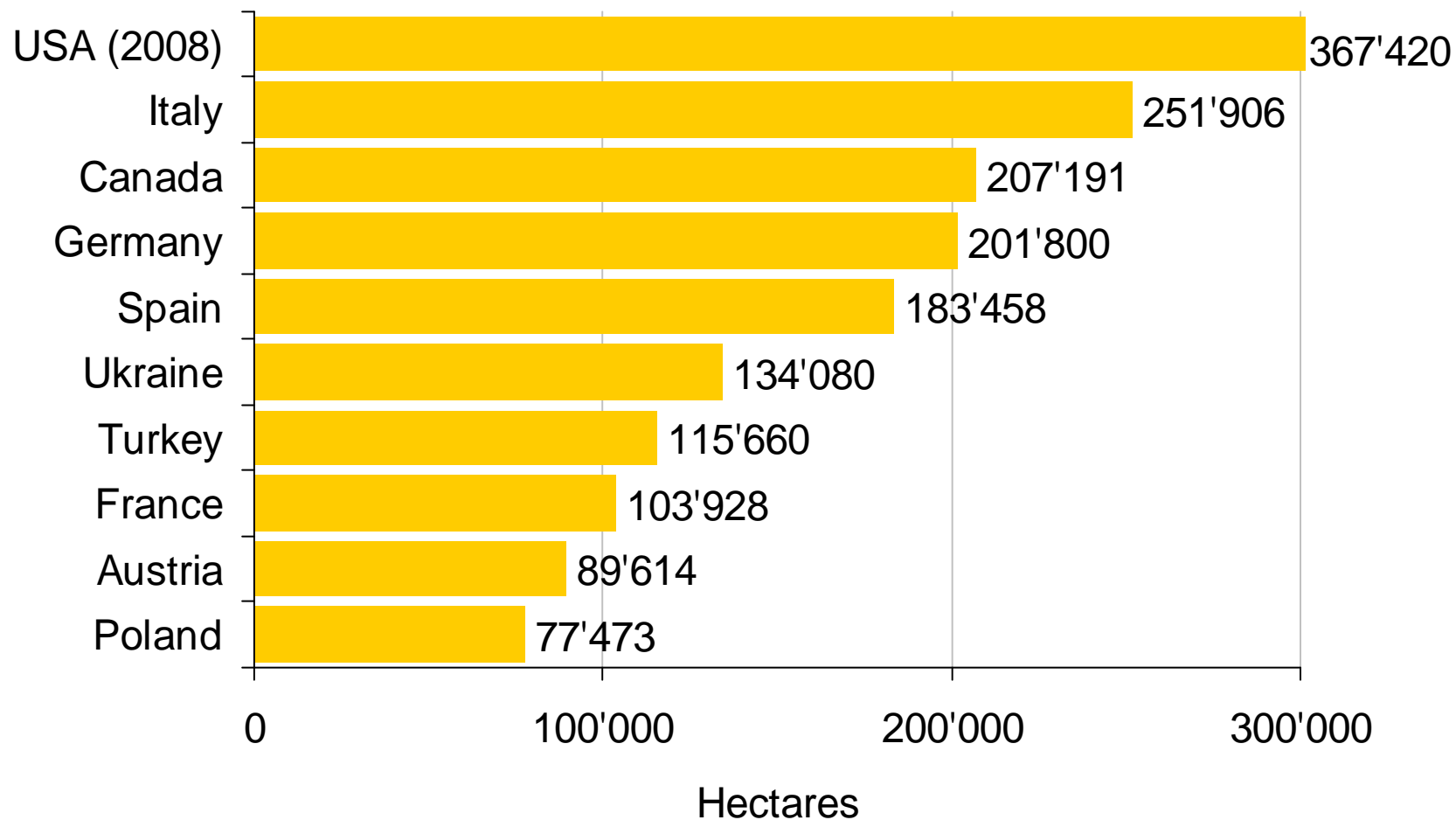
The main arable crops 2009



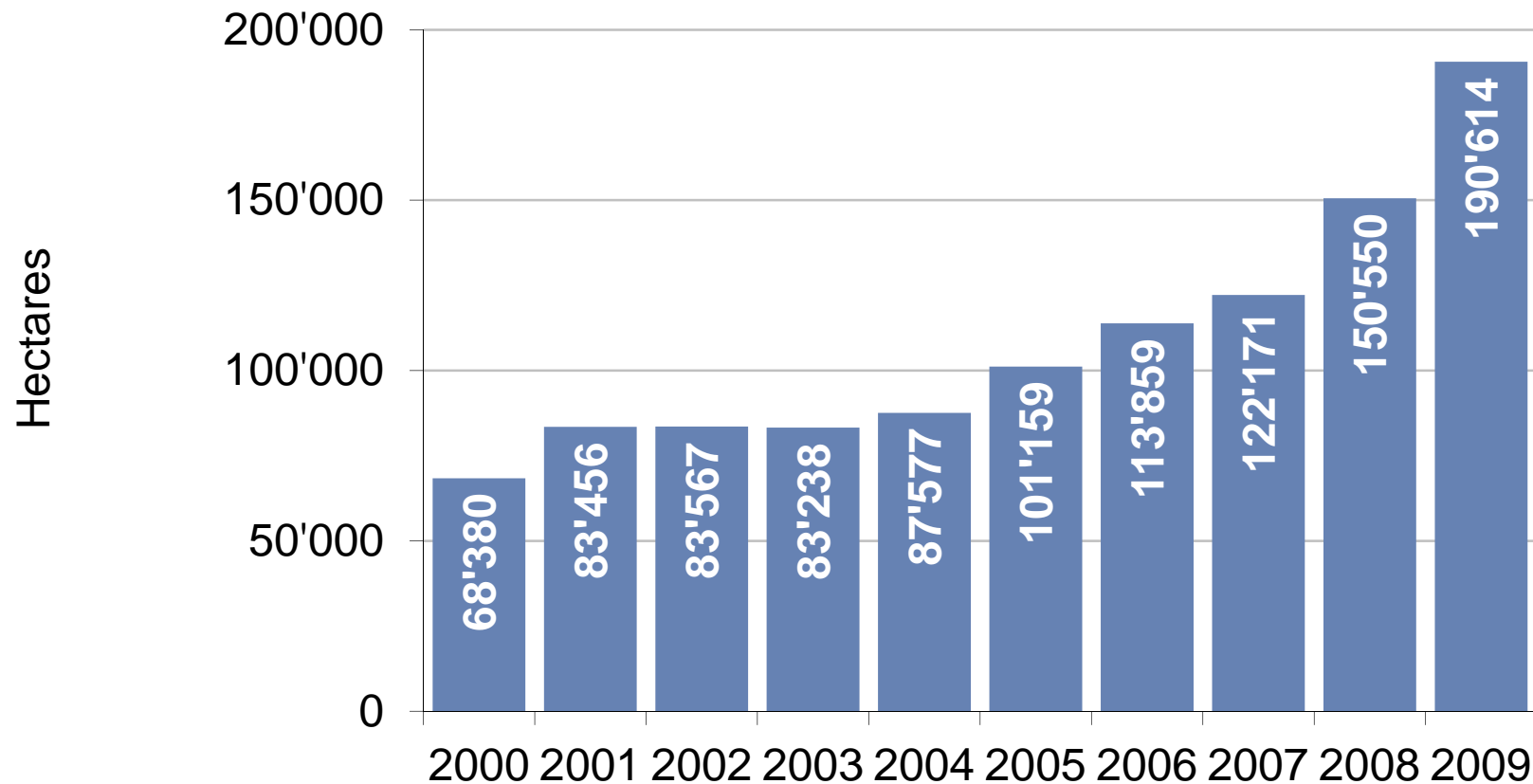
The main permanent crops 2009



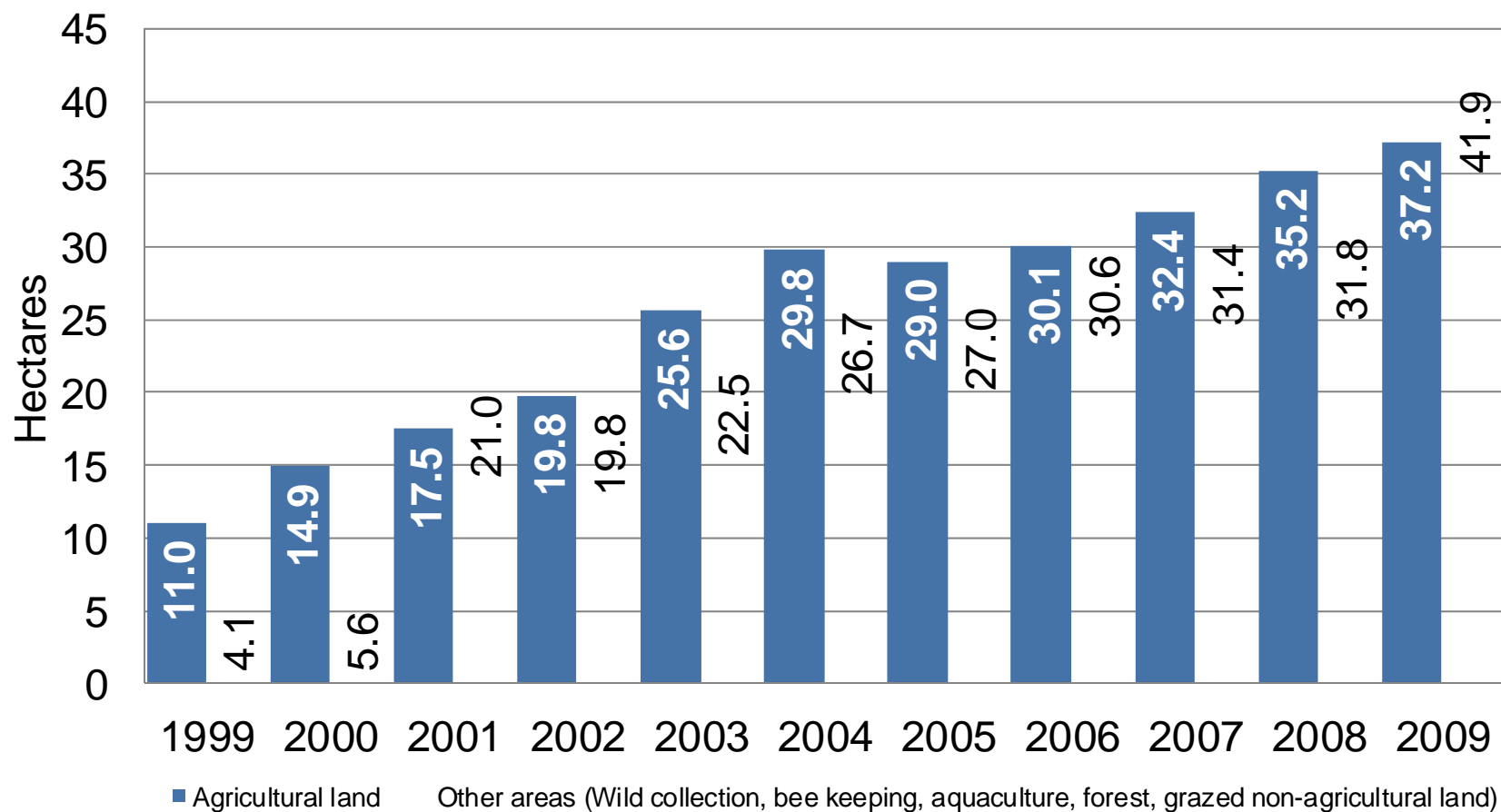
# Organic cereals: The ten countries with the largest areas 2009



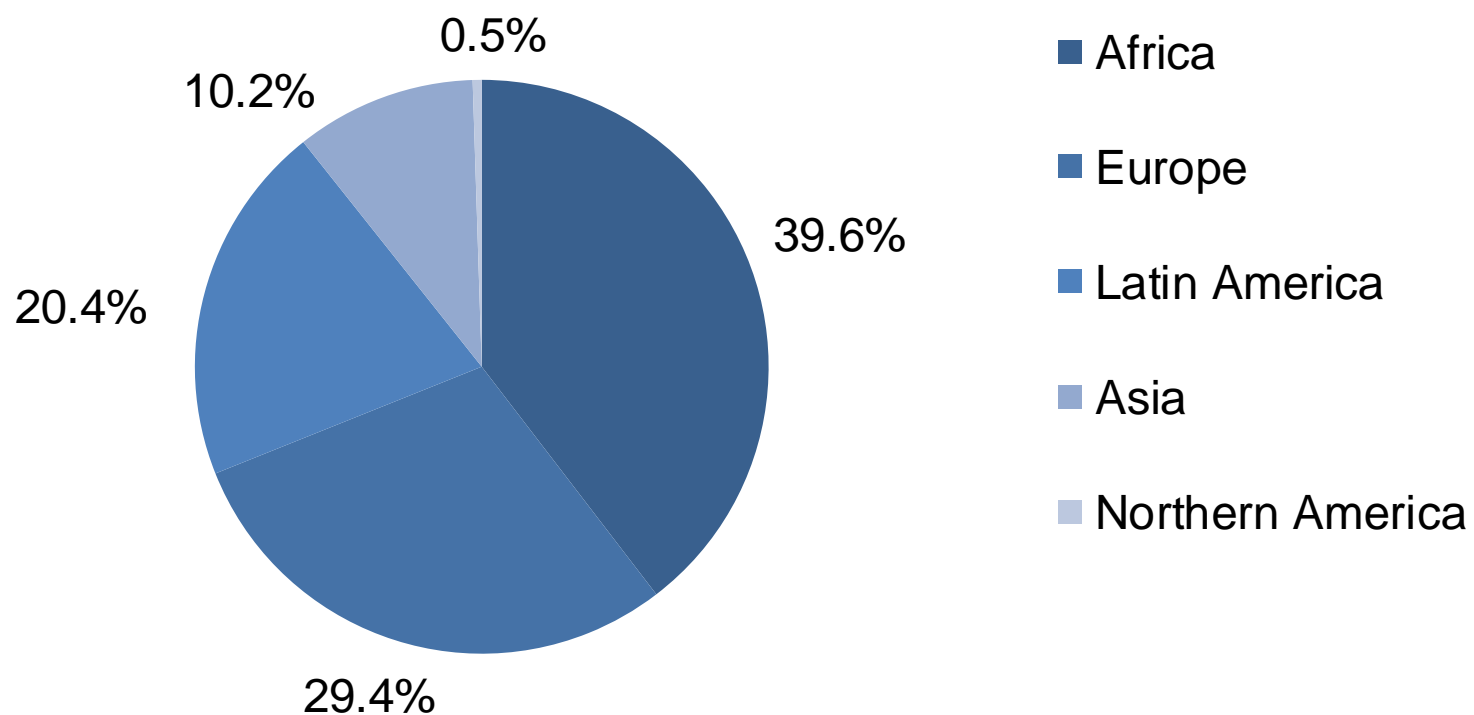
# Development of the organic grape area worldwide 2000-2009 (including in-conversion areas)



# Development of organic agricultural land and other organic areas 1999 to 2009

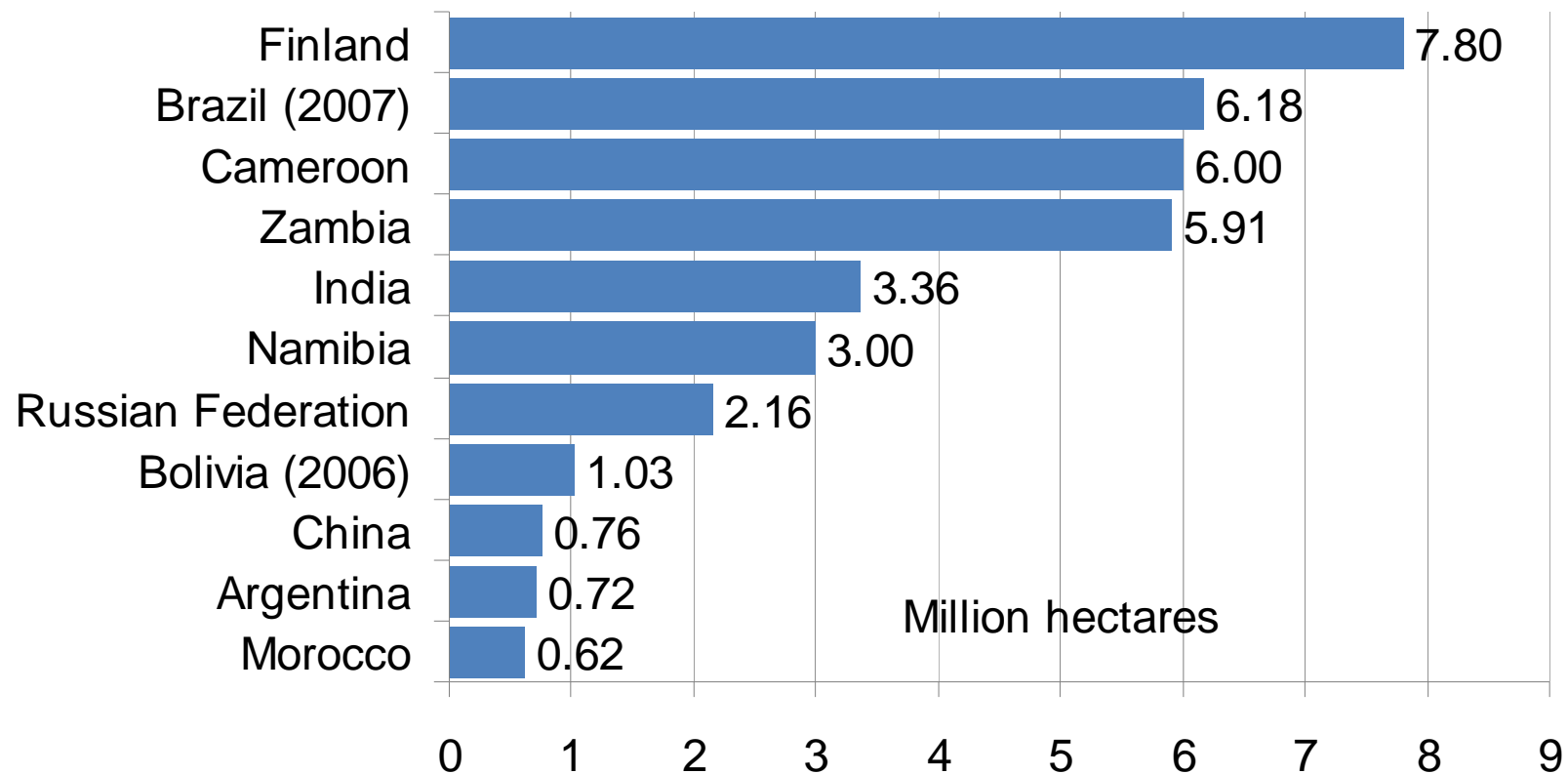


# Distribution of organic wild collection areas by region 2009

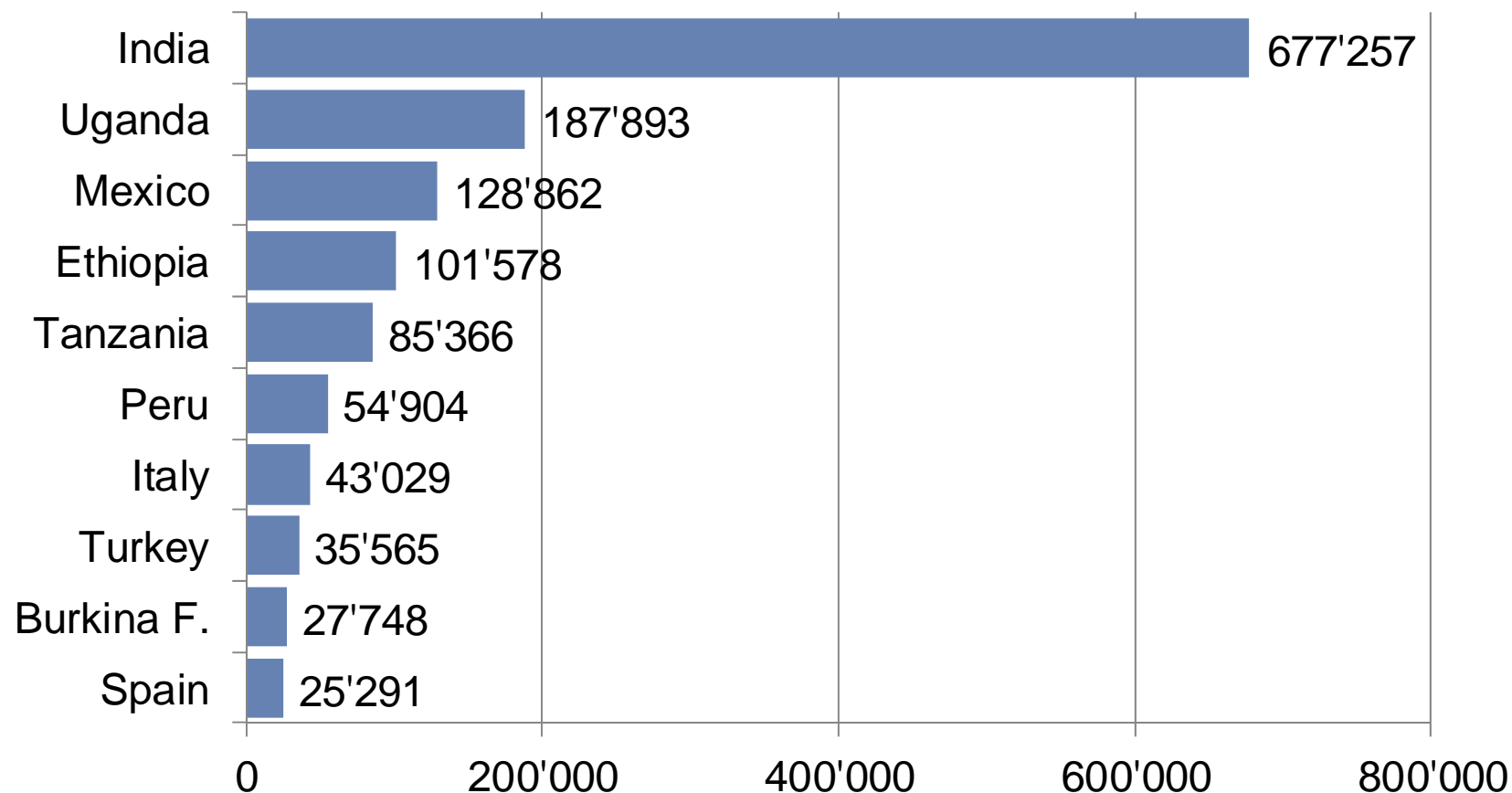




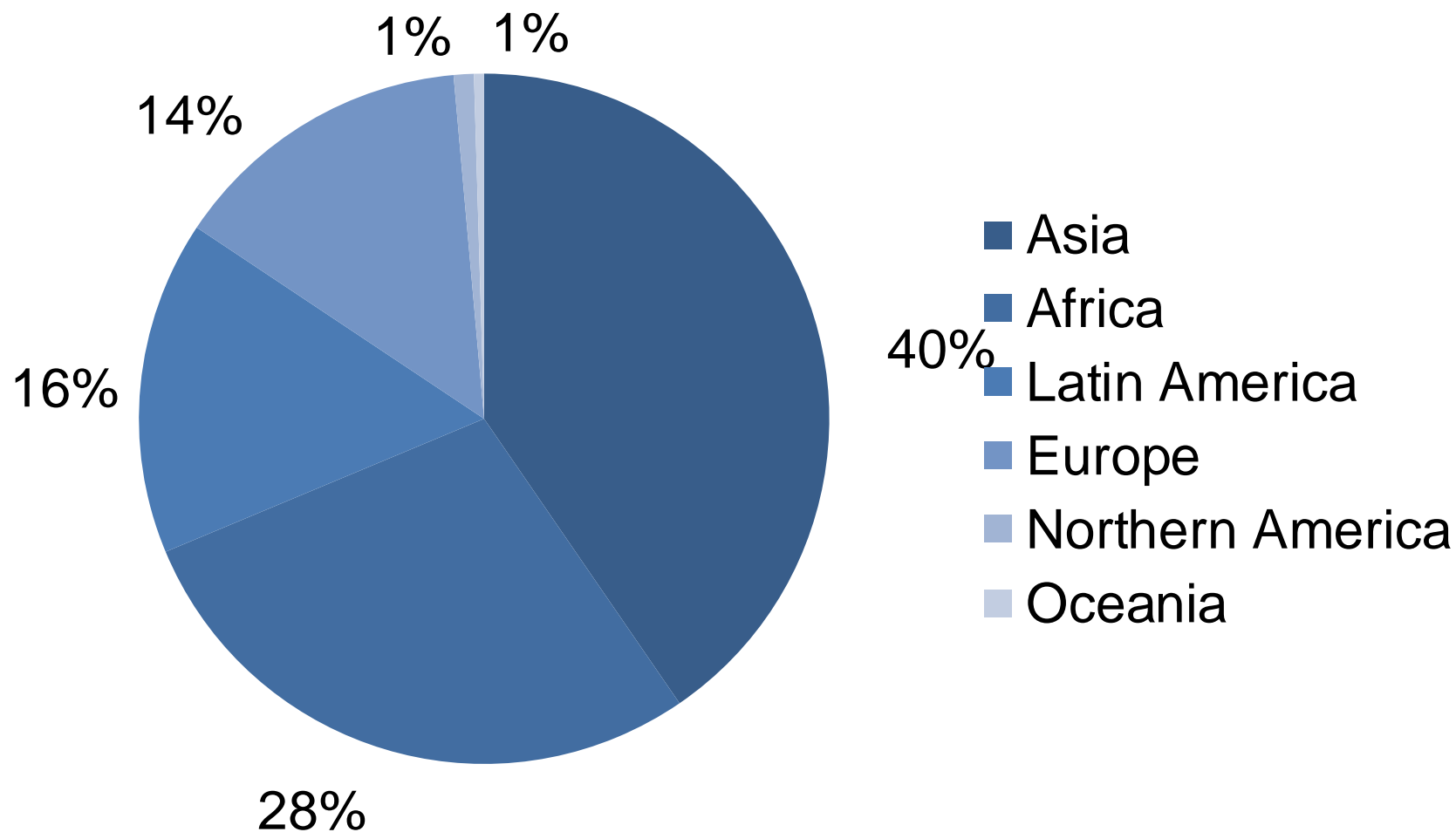
# Organic wild collection: The ten countries with the largest wild collection areas (including bee-keeping) 2009



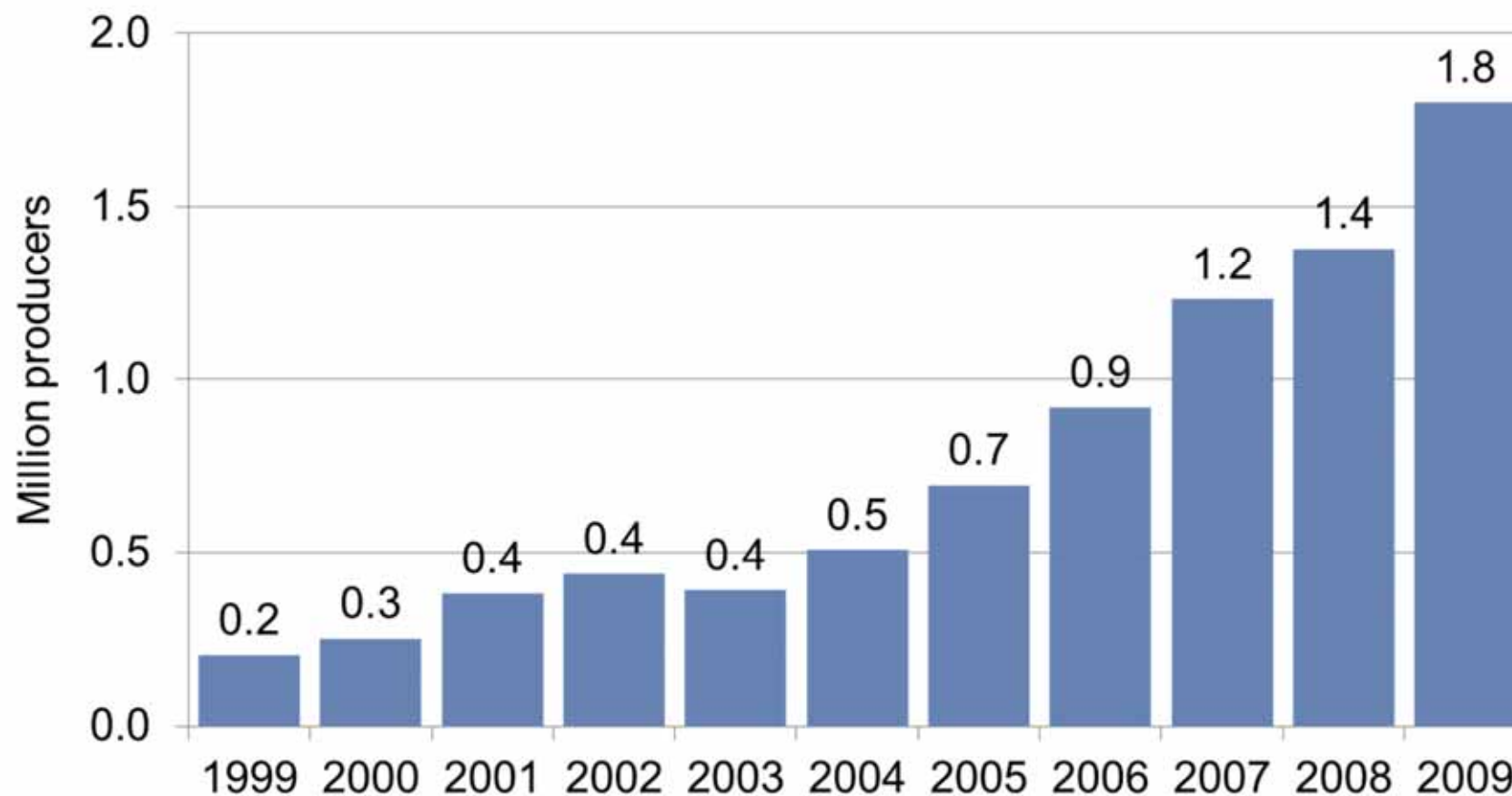
# The ten countries with the largest numbers of organic producers 2009



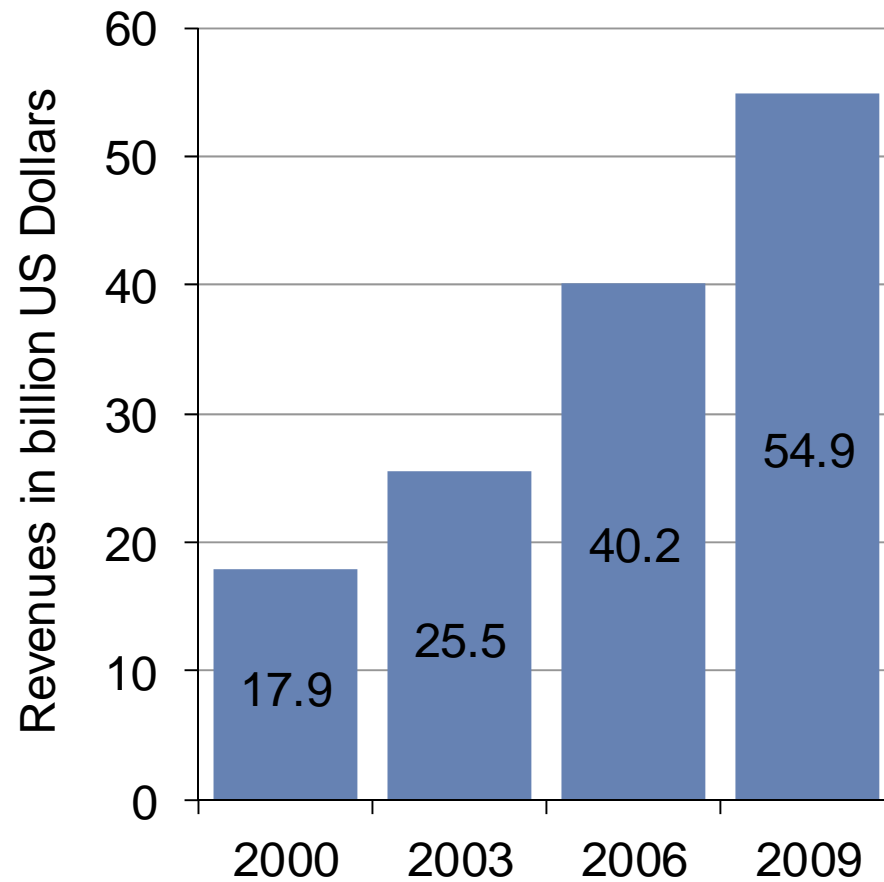
# Organic producers by geographical region 2009 (total: 1.8 million)



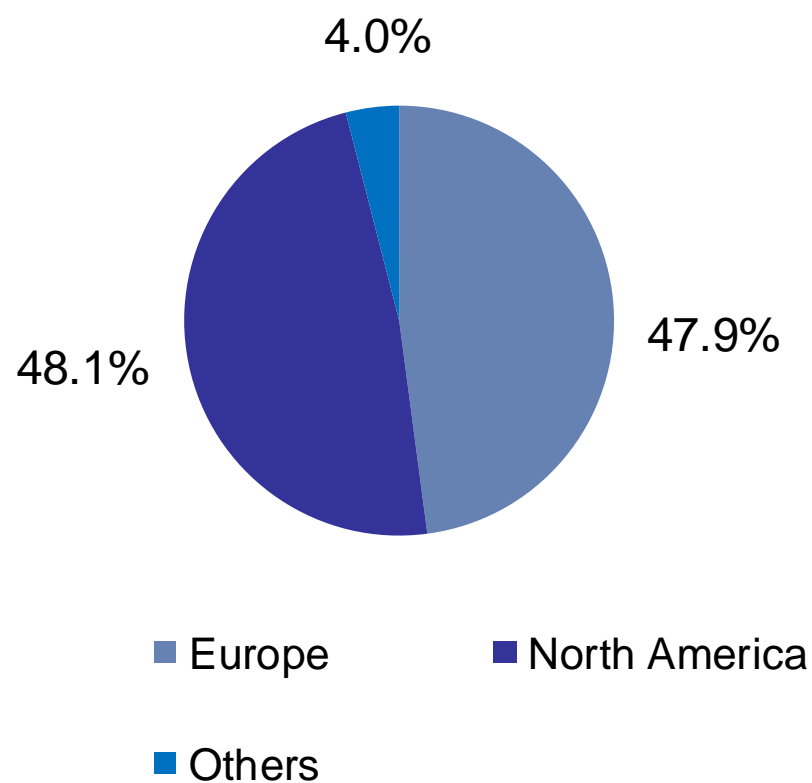
# World: Development of organic producers 1999-2009



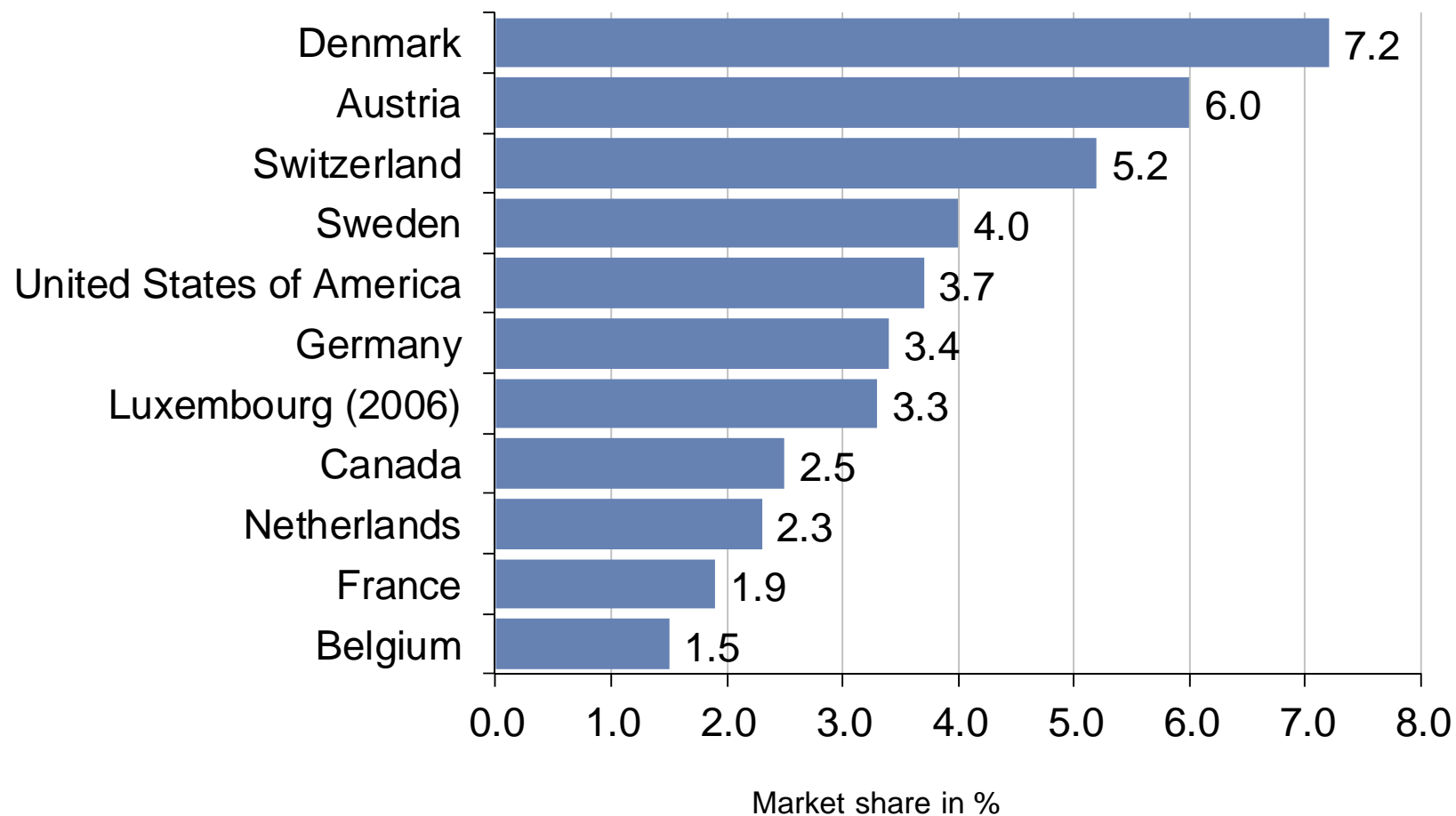
# Development of the global market for organic food and beverages



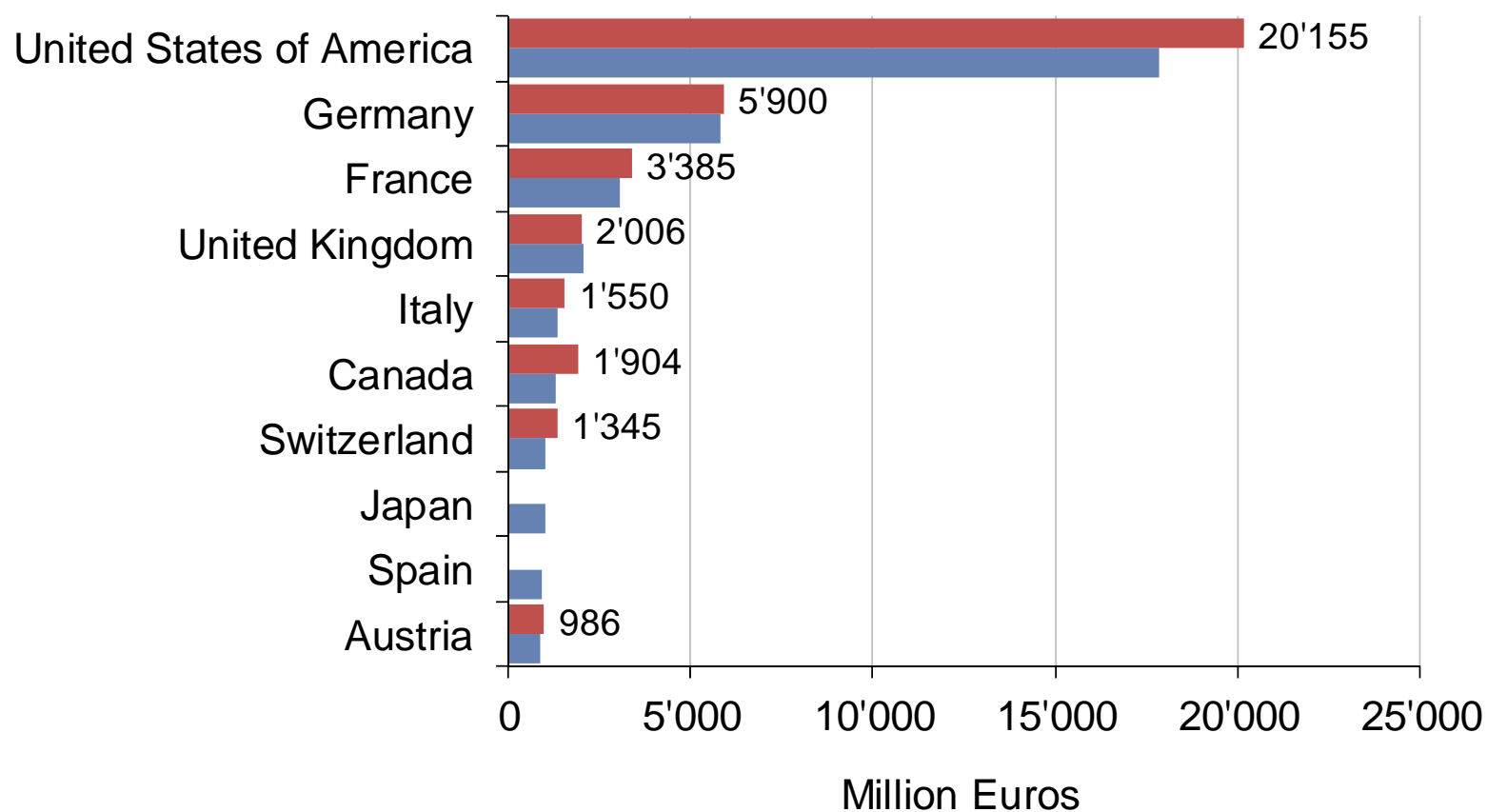
# Distribution of organic food sales by region 2009



# The countries with the highest shares of organic food sales 2009

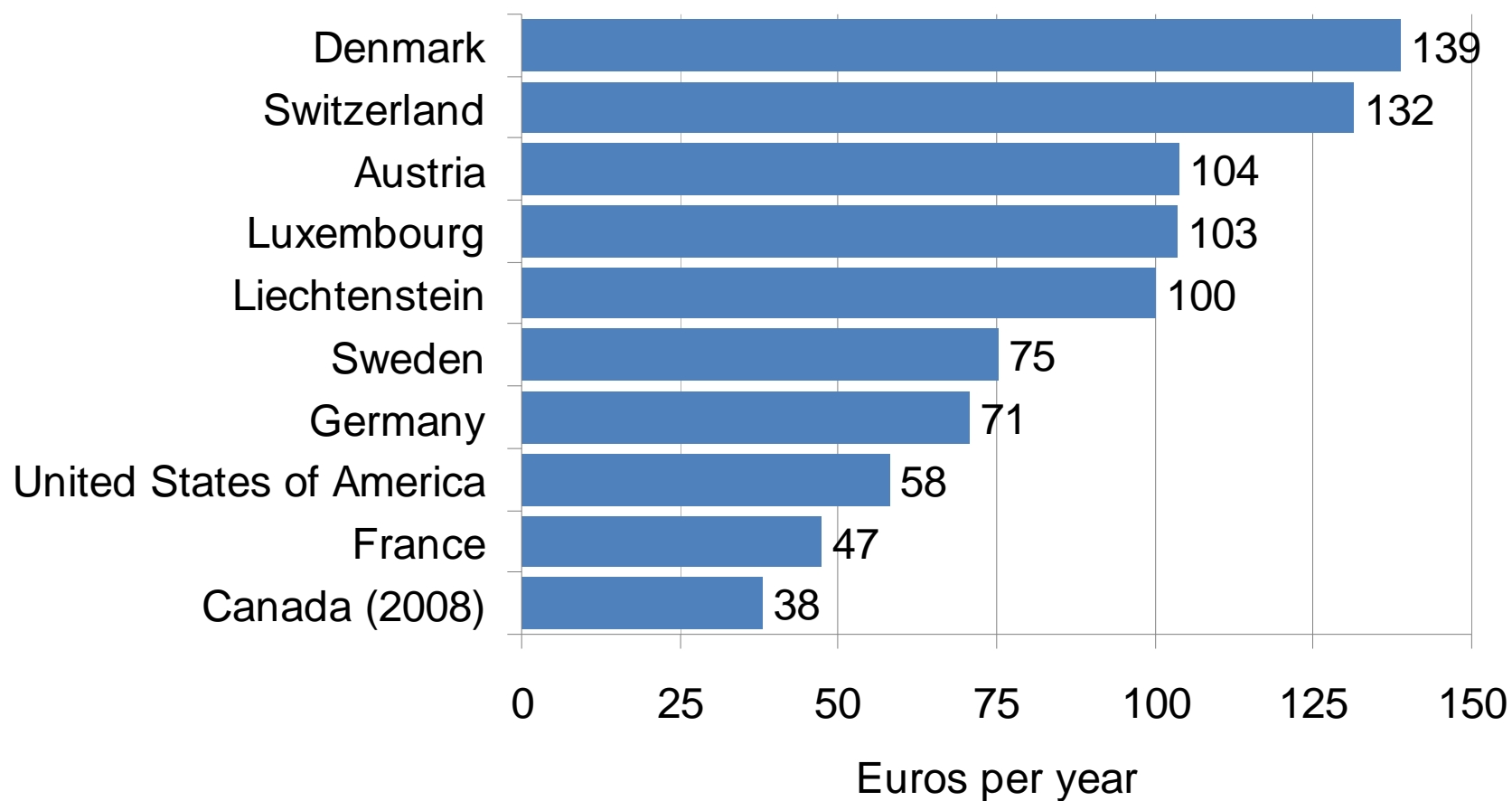


# The countries with the largest domestic markets for organic food 2009 & 2010





# The countries with the highest per capita consumption 2009



# Next steps

- › **Market data by commodity**
- › **Export totals and by commodity**
- › **Imports: totals and by commodity**
- › **Production**

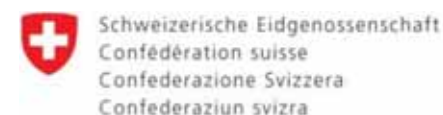
# Data collection: Achievements and tools

# The Global Survey on Organic Agriculture: Supporters

› **International Trade Centre, Geneva**



› **The Swiss State Secretariat of Economic Affairs SECO, Berne**



Swiss Confederation

› **Nürnberg Messe, the organizers of the BioFach Organic Trade Fair**

Federal Department of Economic Affairs FDEA  
State Secretariat for Economic Affairs SECO



# **SECO ITC project: Global information system for organic production and market data (2008-2011)**

- › **Activities under the project: Global information system for organic production and market data**
- › **The data database was set up and maintained by flexinfo, Frick, Switzerland,**
- › **the existing classification for land use and crop data was expanded,**
- › **a basic classification for manufactured products was developed,**
- › **support was given to some developing countries for their data collection, and**
- › **a study on the availability of data and on data collection systems world-wide was carried out**
- › **Website [www.organic-world.net](http://www.organic-world.net)**

# From data collection to data processing

**Step 1: Data collection**

**Step 2: Data processing: Data classification**

**Step 3: Data storage**

**Step 4: Quality/plausibility checks**

**Step 5: Data compilation and evaluation**

**Step 6: Data dissemination**

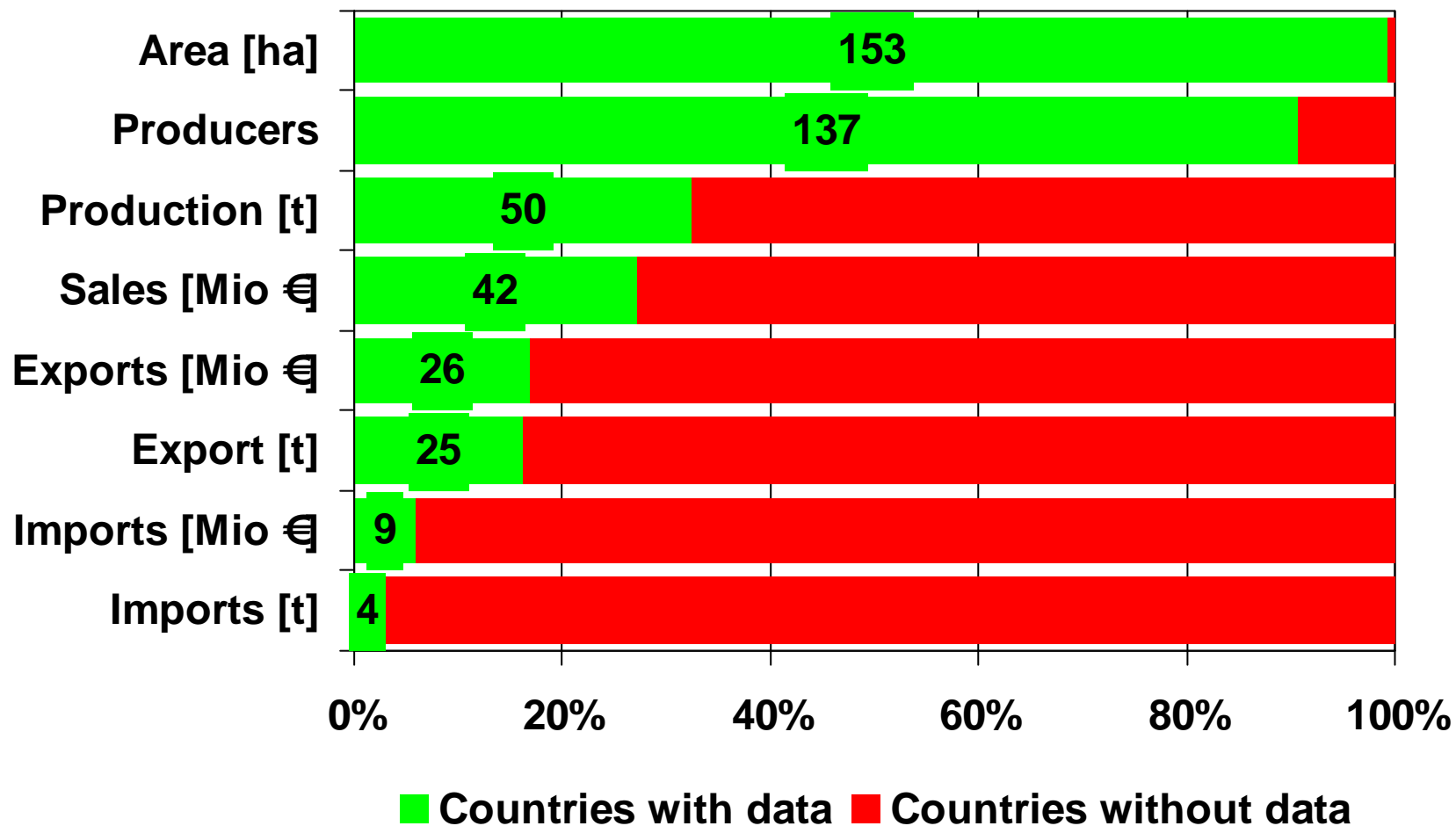
# Step 1: Data collection

# The network

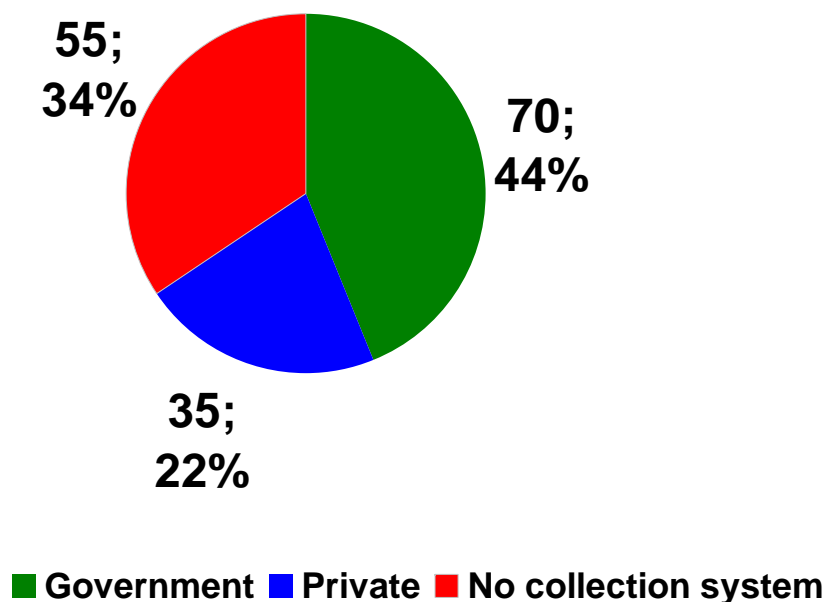
- › **The network of experts who contribute to the data collection consists of more than 200 personalities from 160 countries.**
- › **They are from the private organic sector, from certification agencies and from governments.**
- › **They provide data on organic land area, operators, production, market or international trade.**
- › **Without their help and support it would not be possible to carry out the data collection on organic agriculture worldwide.**



# Data availability for key variables 2008; Number of countries per variable; total: 154 countries

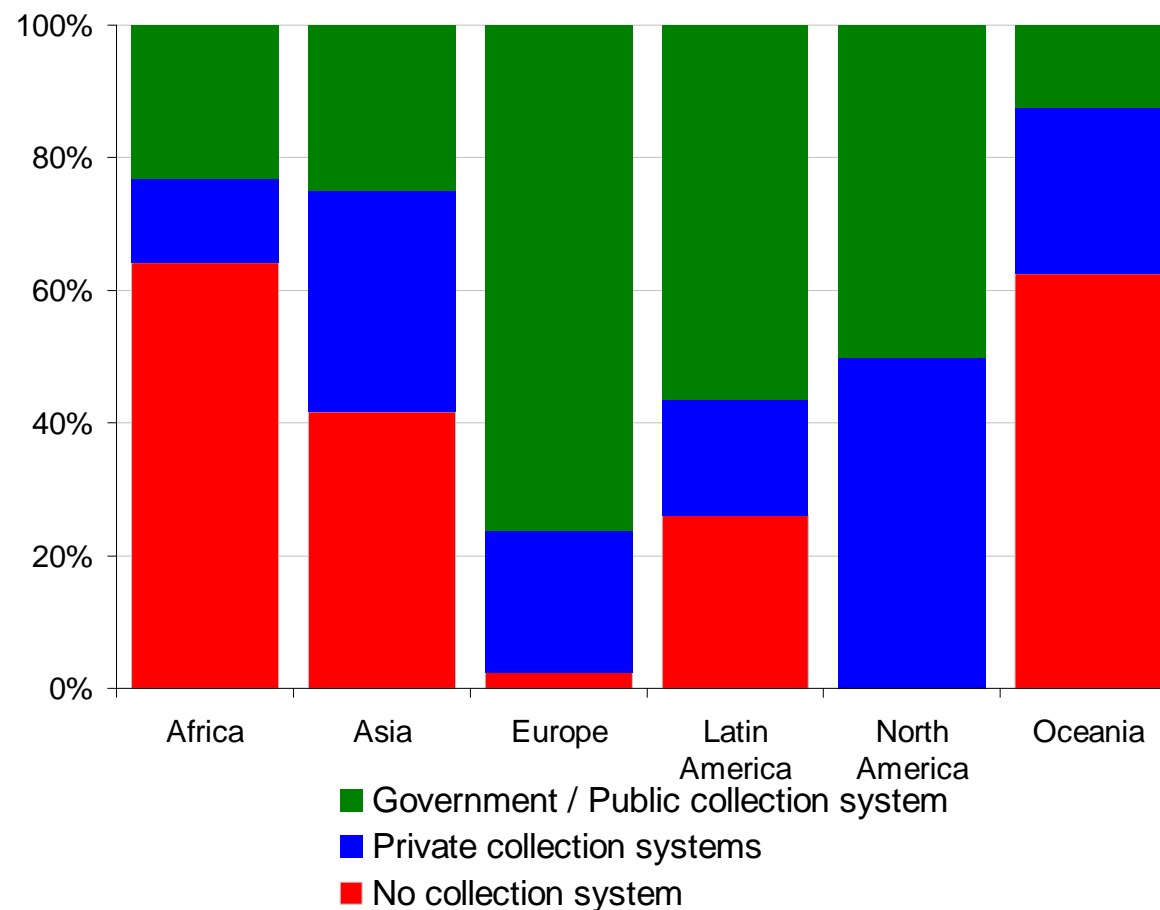


# Organic data collection systems world-wide 2009 for data on area, operators and production (total 160 countries)

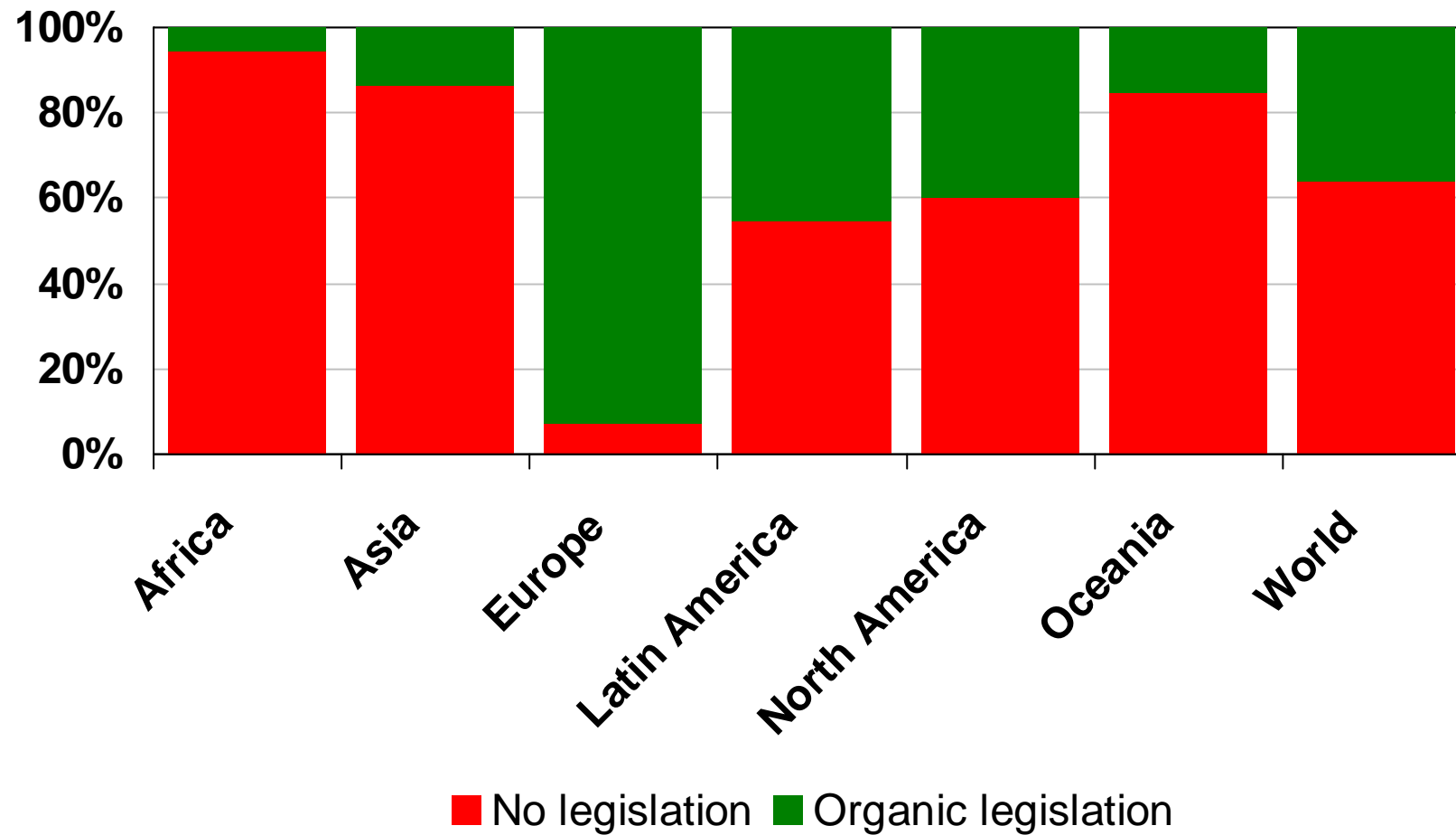


- › **Government collection systems (70 countries)**
  - › Data from the certifiers
  - › Census/farm structure survey
  - › Direct payments
- › **Private collection systems (35 countries)**
  - › Data from the certifiers
  - › Company data
- › **No collection system (55 countries)**
  - › FiBL and IFOAM collect the data from the international certifiers

# Data collection systems for production data by geographical region 2008



# Countries with organic legislations



# Collection systems for government data

- › **Most countries that have an organic regulation also collect basic data on organic agriculture.**
- › **In some cases data collection is stipulated in organic regulations.**
- › **Government data are based on the following information sources:**
  - › **Data from the certifiers**
  - › **Farms that receive direct payments as the basis for the data**
  - › **Farm structure survey**

# Data from certifiers

- › **It is generally accepted that the data of the certifiers yield the best information on the status of organic production in a country.**
- › **Most governments and private sector organisations that collect data on organic agriculture collect these among the certifiers.**
- › **+**
  - › **High level of completeness (not estimates)**
  - › **Up-to-date**
  - › **Data on conversion status may show future supply with organic products**
- › **-**
  - › **Non-standardised land use/crop classification system**
  - › **Varying quality of collection systems**
  - › **In many countries reliant on 'voluntary' collaboration of control bodies**
  - › **Many countries (China, Serbia) do not have access to the data of foreign certifiers that are not registered under the country's accreditation system**

# International certifiers that provided data for several countries (2009 data)



CONTROL UNION CERTIFICATIONS



**Soil Association**

# Networks, transnational data collection efforts





# Data collection systems for data on the domestic market

- › **Commercial market research data**
  - › **Scanner data, often supplemented with household panel data (AC Nielsen)**
  - › **Household panel data (GFK)**
- › **Market research of the private sector**
  - › **Survey among the market actors in the country**
  - › **Published company data & estimates**

## Problems

- › **Methodologies differ from country to country;**
- › **No standardised classification system for organic products;**
- › **Market data are not included in regular/official statistics**
- › **By the time they are available, the statistical data too historical for use by market actors;**
- › **Lack of comparability due to differing methodologies;**
- › **Incomplete coverage;**
- › **Uncertain data quality.**

# Export data

- › **For 2008, twenty-five countries provided data on export values, and 26 on export values for the global survey on organic agriculture.**
- › **In most cases only a total value is available, but not a breakdown by product.**
- › **Very good export statistics are provided for instance by Argentina, Denmark and Peru.**
- › **Export data can be based on the information of certifiers (Argentina), on company information (Denmark), or on information from customs (Peru).**

# Import data

- › **Imports: In 2008, nine countries provided data on import values, and four on import volumes for the global survey on organic agriculture.**
- › **In many cases only a total value is available, but not a breakdown by product.**
- › **Import data can be based on the import permits (Italy), company data (Denmark), potentially also customs data.**

# Problems with import and export (trade) data

- › **Most problematic area as few good models exist**
- › **Inspection bodies do not collect and/or release data**
- › **Organic is not separately identified in trade statistics**
- › **Businesses highly sensitive to confidentiality issues**

# Step 2: Data classification

# Questionnaire: Overview sheet

Microsoft Excel - questionnaire-fibl-ifoam-survey\_E+SP\_V2-2-4-english.xls

Frage hier eingeben

B8

	A	B	C	D	E
1	<b>Global Organic Survey - Data per 31.12.</b>	<b>2009</b>			
2	<b>Contact details, summary sheet</b>				
3					
4	<b>Contact details of data provider</b>				
5	Name				
6	Institution acronym	ADA 001			
7	Institution	test			
8	Street/PO Box				
9	City, Postal code				
10	Country				
11	Telephone				
12	E-mail address				
13	URL				
14					
15	<b>Country and Currency</b>				
16	Country	germany			
17	For values (imports, exports, domestic market) please specify currency here, e.g. USD	€			
18					
19					
20					
21	<b>Summary Key indicators</b>	<b>Value</b>	<b>Unit</b>	<b>Data year*</b>	<b>Coverage**</b>
					<b>Sou</b>
					<b>(Acron</b>

Enter acronym for national currency (e.g. USD)

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# Questionnaire: Operator types

	A	B	C	D
1	<b>Global Organic Survey</b>		<b>Operators per 31.12.2009</b>	
2				
3		<b>Registered operators</b>	<b>End of 2009</b>	
4		<b>Producers</b>		
5	<b>A</b>	Registered <b>producers</b> ONLY (1)		0
6	<b>A1</b>	Registered agricultural producers		
7	<b>A2</b>	Registered aquaculture producers		
8		Registered mixed producers (involved also in other activities) (4)		
9		Smallholders in grower groups		
10		<b>Total producers and smallholders</b>		0
11		<b>Processors</b>		
12	<b>B</b>	Registered <b>processors</b> ONLY (2)		
13		Registered mixed processors (involved also in other activities) (4)		1
14		<b>Total processors</b>		1
15		<b>Importers</b>		
16	<b>C</b>	Registered <b>importers</b> ONLY (3)		
17		Registered mixed importers (involved also in other activities) (4)		
18		<b>Total importers</b>		0
19		<b>Exporters</b>		
20	<b>D 1</b>	Registered <b>exporters</b> ONLY (3)		

# Questionnaire: Crop details

Microsoft Excel - questionnaire-fibl-ifoam-survey\_E+SP\_V2-2-4-english.xls

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R67 fx Field peas

	R	S	T	U	V	W	X	Y	Z
13	<b>Crops/Land use</b>	In-conversion agricultural land [ha]	Fully converted agricultural land [ha]	Total [ha]	Production volume [t]	Production value [Mio €]	Export volume [t]	Export value [Mio €]	Domestic consumption [t]
14	<b>Agricultural land and crops</b> <i>(excluding aquaculture, wild collection, apiculture)</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	<i>Agricultural land for which no details are available</i>			0.0					
16	<b>Arable crops</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	<i>Arable crops, no details</i>			0.0					
18	<b>Cereals for the production of grain (incl. seeds and rice)</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	<i>Cereals for the production of grain (incl. seeds and rice), no details</i>			0.0					
20	<b>Cereals, excluding rice</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	<i>Wheat, no details</i>			0.0					
23	Durum wheat			0.0					
24	<b>Common wheat and spelt</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	<i>Common wheat and spelt, no details</i>			0.0					
26	Soft wheat, human consumption			0.0					
27	Soft wheat, animal feed			0.0					
35	Grain maize and corn cob mix			0.0					
37	<i>Barley, no details</i>			0.0					
43	<i>Rye and meslin, no details</i>			0.0					
48	Oats			0.0					
49	Triticale			0.0					
50	Buckwheat			0.0					
52	<i>Millet, no details</i>			0.0					
56	Quinoa			0.0					
57	Amaranto			0.0					

Bereit

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# Questionnaire: Livestock

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Q23      fx = Q22 & WENN(ISTFEHLER("C:\too\Import\_Makros.xls\hidden(Q22)),", no details";WENN("C:\too\Import\_Makros.xls\hidden(Q22)","",", no details"))

	Production volume [numbers]	Production volume [t]	Production value [Mio €]	Export volume [t]	Export value [Mio €]	Domestic market volume [t]	Domestic market value [Mio €]
<b>Livestock</b>							
<b>Live animals (average annual stock)</b>		0.0	0.0	0.0	0.0	0.0	
<i>Live animals for which no details are available</i>							
<b>Bovine animals</b>	0.0	0.0	0.0	0.0	0.0	0.0	
<i>Bovine animals, no details</i>							
<b>Bovine animals less than 1 year old</b>	0.0	0.0	0.0	0.0	0.0	0.0	
<i>Bovine animals less than 1 year old, no details</i>							
Calves for slaughter							
Other calves							
<b>Bovine animals aged between 1 and 2 years</b>	0.0	0.0	0.0	0.0	0.0	0.0	
<i>Bovine animals aged between 1 and 2 years, no details</i>							
Bovine animals aged between 1 and 2 years for slaughter							
Other bovine animals aged between 1 and 2 years							
<b>Bovine animals of two years and older</b>	0.0	0.0	0.0	0.0	0.0	0.0	
<i>Bovine animals of two years and older, no details</i>							
Dairy cows							
Suckler cows							
Bovine animals of 2 years and over for slaughter							
Other bovine animals of 2 years and over							
<b>Pigs</b>	0.0	0.0	0.0	0.0	0.0	0.0	

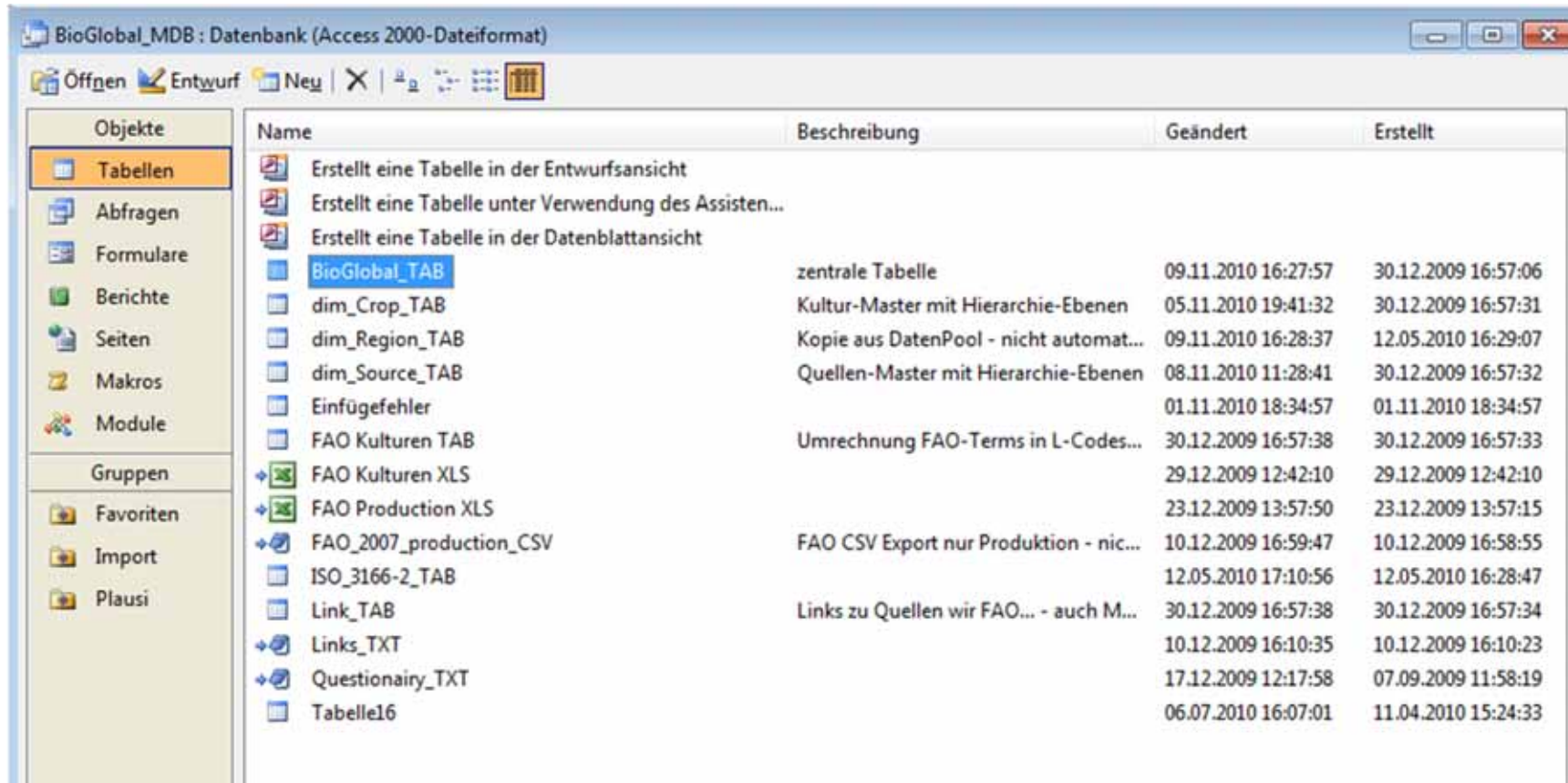
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# Questionnaire: Manufactured products

	R	S	T	U	V	W	
13	<b>Manufactured products</b> (including products from live animals)	Production volume [t]	Production volume [hl]	#BEZUG!	Export volume []	#BEZUG!	Don ma volt
14	<b>Manufactured products</b> (including products from live animals)	0.0	0.0	0.0	0.0	0.0	
15	<i>Manufactured products for which no details are available</i>						
16	<b>Prepared food and feedstuffs</b>	0.0	0.0	0.0	0.0	0.0	
17	<i>Prepared food and feedstuffs, no details</i>						
18	<b>Meat and fish products</b>	0.0	0.0	0.0	0.0	0.0	
19	<i>Meat and fish products, no details</i>						
20	<b>Meat</b>	0.0	0.0	0.0	0.0	0.0	
21	<i>Meat, no details</i>						
22	Beef						
23	Pork						
24	Sheep						
25	Goats						
26	Equidae						
27	Meat, no details						

# Step 3: Data storage

# The database: Core table and related tables



Name	Beschreibung	Geändert	Erstellt
Erstellt eine Tabelle in der Entwurfsansicht			
Erstellt eine Tabelle unter Verwendung des Assisten...			
Erstellt eine Tabelle in der Datenblattansicht			
<b>BioGlobal_TAB</b>	zentrale Tabelle	09.11.2010 16:27:57	30.12.2009 16:57:06
dim_Crop_TAB	Kultur-Master mit Hierarchie-Ebenen	05.11.2010 19:41:32	30.12.2009 16:57:31
dim_Region_TAB	Kopie aus DatenPool - nicht automat...	09.11.2010 16:28:37	12.05.2010 16:29:07
dim_Source_TAB	Quellen-Master mit Hierarchie-Ebenen	08.11.2010 11:28:41	30.12.2009 16:57:32
Einfügefehler		01.11.2010 18:34:57	01.11.2010 18:34:57
FAO Kulturen TAB	Umrechnung FAO-Terms in L-Codes...	30.12.2009 16:57:38	30.12.2009 16:57:33
FAO Kulturen XLS		29.12.2009 12:42:10	29.12.2009 12:42:10
FAO Production XLS		23.12.2009 13:57:50	23.12.2009 13:57:15
FAO_2007_production_CSV	FAO CSV Export nur Produktion - nic...	10.12.2009 16:59:47	10.12.2009 16:58:55
ISO_3166-2_TAB		12.05.2010 17:10:56	12.05.2010 16:28:47
Link_TAB	Links zu Quellen wir FAO... - auch M...	30.12.2009 16:57:38	30.12.2009 16:57:34
Links_TXT		10.12.2009 16:10:35	10.12.2009 16:10:23
Questionary_TXT		17.12.2009 12:17:58	07.09.2009 11:58:19
Tabelle16		06.07.2010 16:07:01	11.04.2010 15:24:33

# Database: The core table

Package	Year	Country	Kultur	Indicator	Label	Value		
NAPQMS f001	2009	Korea, Republic of	Beef	Production [t]	organic	423.00	<input type="checkbox"/>	<input type="checkbox"/>
NAPQMS f001	2009	Korea, Republic of	Agricultural land and crops, no details	Area [ha]	organic	13'343.00	<input type="checkbox"/>	<input type="checkbox"/>
NAPQMS f001	2009	Korea, Republic of	Soy, oil	Imports [t]	organic	1'760.00	<input type="checkbox"/>	<input type="checkbox"/>
NAPQMS f001	2009	Korea, Republic of	Beans, edible	Imports [t]	organic	160.00	<input type="checkbox"/>	<input type="checkbox"/>
NAPQMS f001	2009	Korea, Republic of	No details	Imports, total [t]	organic	9'063.00	<input type="checkbox"/>	<input type="checkbox"/>
NAPQMS f001	2009	Korea, Republic of	Livestock products, other, measured by weight (1000 kg)	Production [t]	organic	585.00	<input type="checkbox"/>	<input type="checkbox"/>
NAPQMS f001	2009	Korea, Republic of	Milk	Production [t]	organic	9'270.00	<input type="checkbox"/>	<input type="checkbox"/>
NAPQMS f001	2009	Korea, Republic of	Eggs	Production [t]	organic	529.00	<input type="checkbox"/>	<input type="checkbox"/>
NAPQMS f001	2009	Korea, Republic of	Maize, grain	Imports [t]	organic	2'000.00	<input type="checkbox"/>	<input type="checkbox"/>
NAPQMS f001	2009	Korea, Republic of	Pork	Production [t]	organic	124.00	<input type="checkbox"/>	<input type="checkbox"/>

# Database: Source management

inserted	modified	idRef	ID	Country	Source	Package	Author	Source description	File	Link	remark	Reg
06.11.2010	06.11.2010	4340	Ireland	AMI	AMI 005		Diana Schaack	Source: AMI, Bonn, Germany. Data provided by Diana Schaack, AMI, Bonn, Germany. www.marktandpreis.de	..\\Source\\germany\\germany.2009.market.ami.2010.htm			
06.11.2010	06.11.2010	4347	Ireland	Organic Market Info	Organic Market Info 001			Source: Bord Bia, Dublin, Ireland. quoted by: Organic Market Info at http://www.bio-markt.info/web/Europa/land/land/94/92/0/8141.html	..\\Source\\ireland\\ireland.2009.market.organic.market.info.2010.mog			
06.11.2010	06.11.2010	4346	Europe	Eurostat	Eurostat 261			Eurostat (2010). Number of registered organic operators. Last update November 5, 2010. The Eurostat homepage. Eurostat, Luxembourg	..\\Source\\eurostat\\eurostat.2009.operators.download.2010.11.06.xls			
06.11.2010	06.11.2010	4345	Belgium	Departement Landbouw en	LV 001			Samborski V. & Van Belleghem L. (2010) De biologische landbouw in 2009. Departement Landbouw en Visserij, Brussel	..\\Source\\belgium\\belgium.2009.biologische.landbouw.persrapport-2010.pdf			
06.11.2010	06.11.2010	4344	Macedonia	Probio	Probio 010		Gordana Pecelj	Source: Certifier data compiled by Probio. Data provided by Gordana Pecelj, PROBIO, Skopje, Macedonia	..\\Source\\macedonia\\macedonia.2009.landuse.producers.probio.2010.xls			
06.11.2010	06.11.2010	4343	Guyana	Ecocert	Ecocert 015		Vincent Morel	Ecocert, Lisle Jourdan, France. www.ecocert.com. Data provided by Vincent Morel, Area Manager, Ecocert, Lisle Jourdan, France.	..\\Source\\guyana\\guyana.2009.landuse.ecocert.2010.xls			
06.11.2010	06.11.2010	4342	Haiti	Ecocert	Ecocert 016		Vincent Morel	Ecocert, Lisle Jourdan, France. www.ecocert.com. Data provided by Vincent Morel, Area Manager, Ecocert, Lisle Jourdan, France.	..\\Source\\haiti\\haiti.2009.landuse.ecocert.2010.xls			
06.11.2010	06.11.2010	4341	Netherlands	LEI	LEI 001		Marann Blom	Source: Bakker, J and Burtje, F. (2009) Biologische internationale handel. WUR, Wageningen. Provided by Marann Blom, Biologica.	..\\Source\\netherlands\\netherlands.2007.internationaltrade.data.bakker.blom.htm			
05.11.2010	05.11.2010	4340	Ukraine	OFU	OFU 008		Eugene Mironov	Source: Organic Federation of Ukraine, Kiev, Ukraine. Data provided by Eugene Mironov, Organic Federation of Ukraine, Kiev, Ukraine	..\\App\\source\\communication\\Wirtschaftsstatistiker\\quellen\\ukraine.xls.ukraine.2007.crops.xls			1
05.11.2010	05.11.2010	4339	Norway	SLF	SLF Norway 003		Elin Rasmus	Source: SLF, Oslo, Norway. Data on the development of the domestic market for organic products provided by Elin Rasmus, SLF, Oslo.	..\\Source\\norway\\norway.2009.domesticmarketing.including.non.food.pdf.xls			
05.11.2010	05.11.2010	4339	Finland	AC Nielsen/Organic	AC Nielsen Finland 001		Sampsa Heinonen	Source: AC Nielsen. Data provided by Sampsa Heinonen, Organic Food Finland. Espo, Finland. www.organic-finland.com	..\\Source\\finland\\finland.2009.market.data.organic.finland.txt			
05.11.2010	05.11.2010	4337	Ireland	DAFF	DAFF 003		Eddie Mc Auliffe	Source: Department of Agriculture Fisheries and Food, Dublin, Ireland. Data provided by Eddie Mc Auliffe, Organic Unit, Department of	..\\Source\\ireland\\ireland.2009.landuse.producers.daff.xls			
03.11.2010	03.11.2010	4336	Sweden	SOS	SOS 001			Sveriges Officiella Statistik: Livsmedelsförsäljningsstatistik 2009. Livsmedelsförsäljningen inom detaljhandeln. Food sales 2009. HA 24	..\\Source\\sweden\\sweden.2009.market.data.sos.pdf			24
01.11.2010	01.11.2010	4335	Montenegro	MPAF	MPAF 004		Radana Damjanovic	Source: Data provided by: Radana Damjanovic, Ministry of Agriculture, Forestry and Water Management	..\\Source\\montenegro\\montenegro.2009.landuse.ministry.agr.2010.xls			1
01.11.2010	01.11.2010	4334	Czech Republic	Green Marketing	Green Marketing 013			Source: Green Marketing, Moravská Knižice, Czech Republic. Provided by Tom Vaclavik, Green Marketing, Moravská Knižice, Czech Republic	..\\Source\\czechrepublic\\czech.republic.2009.market.data.greenmarketing.txt			1
01.11.2010	01.11.2010	4333	Europe	FIBL	FIBL 021		Helga Wille	Calculation of the per Capita consumption by combining of turnover with organic products with the total population (See package Eurostat)	..\\Source\\eurostat\\eurostat.population.2000.2010.htm			
01.11.2010	01.11.2010	4332	Europe	Eurostat	Eurostat 260			Eurostat 2010. Total population - [pop00001] Eurostat, Luxembourg. http://ecp.eurostat.ec.europa.eu/fmtable.do?tablename=langage=eng&	..\\Source\\eurostat\\eurostat.population.2000.2010.htm			
01.11.2010	01.11.2010	4331	Austria	RoLi-AMA	RoLi-AMA 001			Fruchtportal: Österreich: Bio-Absatz wächst laut RoLiAMA auch in der Krise. Quelle: AZ-Info. Veröffentlichungsdatum: 15.03.2010	..\\File\\RoLi-AMA\\Source\\austria\\austria.2009.Oestereich-Bio-Absatz.waechst.laut.RoLiAMA.auch.in.der.Krise.htm			
01.11.2010	01.11.2010	4330	Austria	ARGE Bioumsätze Bio	ARGE Bioumsätze Österreich 001		Ralph Liebig	ARGE Bioumsätze: Bio Austria, FiBL Austria and Agricultura. Bio-Umsatz in Österreich wuchs 2009 um 5%. WWW.OTS.AT OTS, Wien.	..\\Source\\austria\\austria.2009.market.arge.bio.umsaetze.2010.htm			
24.10.2010	24.10.2010	4327	Luxembourg	ASTA	ASTA 010		Monique Faber	Source: Administration des Services Techniques de l'Agriculture ASTA, Luxembourg. data provided Monique Faber, Luxembourg. E-Mail of	..\\File\\EUFER\\EUFER\\kommunikation\\Benutzer\\Wille\\helga\\statistiker\\RoGlobal\\Source\\luxembourg\\luxembourg.2009.say.data.asta.xls			
24.10.2010	24.10.2010	4326	Liechtenstein	KBA	KBA 013		Klaus Büchel	Data source: Biofläche und die Gesamtfläche der direktzahlungsberechtigten Betriebe. Provided by: Klaus Büchel, Klaus	..\\Source\\liechtenstein\\liechtenstein.development.2005.2009.organic.total.docx			
24.10.2010	24.10.2010	4325	Lithuania	Eurostat	Eurostat 259			Eurostat (2010). Organic crop area. The Eurostat homepage. Last update: 11.10.2010	..\\File\\EUFER\\EUFER\\kommunikation\\Benutzer\\Wille\\helga\\statistiker\\RoGlobal\\Source\\lithuania\\lithuania.2009.landuse.eurostat.2010.10.01.xls			
24.10.2010	24.10.2010	4324	Hungary	Eurostat	Eurostat 258			Eurostat (2010). Organic crop area. The Eurostat homepage. Last update: 11.10.2010	..\\File\\EUFER\\EUFER\\kommunikation\\Benutzer\\Wille\\helga\\statistiker\\RoGlobal\\Source\\hungary\\hungary.2009.landuse.eurostat.2010.10.01.xls			
24.10.2010	24.10.2010	4323	Greece	Eurostat	Eurostat 257			Eurostat (2010). Organic crop area. The Eurostat homepage. Last update: 11.10.2010	..\\File\\EUFER\\EUFER\\kommunikation\\Benutzer\\Wille\\helga\\statistiker\\RoGlobal\\Source\\greece\\greece.2009.eurostat.2010.10.11.xls			

# Data base: Crop/product dimension table

ID	Crop0	Crop1	Crop2	Crop3	Crop4	Crop5	Crop	cKultur	remark	freq
1	Primary Production	Agricultural land and crops	Permanent crops	Other permanent crops	Acacia senegalensis	Acacia senegalensis	Acacia senegalensis	L102x08		2
151	Primary Production	Agricultural land and crops	Agricultural land and crops	Agricultural land and crops	Agricultural land and crops	Agricultural land and crops	Agricultural land and crops	L1	ex no details	
1512	Primary Production	Agricultural land and crops	Agricultural land and crops, no details	Agricultural land and crops, no details	Agricultural land and crops, no details	Agricultural land and crops, no details	Agricultural land and crops, no details	L100		
1809	Primary Production	Agricultural land and crops	Agricultural land and crops, other	Agricultural land and crops, other	Agricultural land and crops, other	Agricultural land and crops, other	Agricultural land and crops, other	L1zz		
1113	Manufactured products	Prepared food and feedstuffs	Beverages	Alcohol, spirits, liqueurs and other spirituous beverages, no details	Alcohol, spirits, liqueurs and other spirituous beverages, no details	Alcohol, spirits, liqueurs and other spirituous beverages, no details	Alcoholic drinks	1.13.01		1
1556	Manufactured products	Prepared food and feedstuffs	Beverages	Alcohol, spirits, liqueurs etc.	Alcohol, spirits, liqueurs etc.	Alcohol, spirits, liqueurs etc.	Alcohol and spirits	1.13.01.03		1
2	Primary Production	Agricultural land and crops	Permanent crops	Nuts	Almonds	Almonds	Almonds	L102601		15
1602	Manufactured products	Prepared food and feedstuffs	Fruit, berries and nuts, prepared and preserved	Shelled nuts	Almonds, shelled	Almonds, shelled	Almonds, shelled	1.02.02.02		1
3	Primary Production	Agricultural land and crops	Arable crops	Medicinal and aromatic plants	Medicinal plants	Aloe vera	Aloe vera	L1019031		10
5	Primary Production	Agricultural land and crops	Arable crops	Cereals	Amaranto	Amaranto	Amaranto	L10111a		8
1655	Manufactured products	Prepared food and feedstuffs	Oils and fats	Animal fats	Animal fats, no details	Animal fats, no details	Animal fats	1.03.01		1
6	Primary Production	Agricultural land and crops	Arable crops	Plants harvested green	Annual plants harvested green	Annual plants harvested green	Annual plants harvested green	L101901		23
1735	Primary Production	Agricultural land and crops	Arable crops	Plants harvested green	Annual plants harvested green	Annual plants harvested green, no details	Annual plants harvested green, no details	L1019010		
7	Primary Production	Agricultural land and crops	Arable crops	Plants harvested green	Annual plants harvested green	Annual plants harvested green, other	Annual plants harvested green, other	L101901z		4
1840	Primary Production	Apiculture	Apiculture	Apiculture	Apiculture	Apiculture	Apiculture	L6		
1576	Manufactured products	Prepared food and feedstuffs	Fruit, berries and nuts, prepared and preserved	Fruit juices	Orange juice	Orange juice	Apple juice	1.02.03.05		1
1274	Manufactured products	Prepared food and feedstuffs	Fruit, berries and nuts, prepared and preserved	Fruit juices	Apple juice concentrate	Apple juice concentrate	Apple juice concentrate	1.02.03.34		1
1331	Manufactured products	Prepared food and feedstuffs	Condiments and seasonings	Vinegars	Apple vinegar	Apple vinegar	Apple vinegar	1.11.02.01		1
8	Primary Production	Agricultural land and crops	Permanent crops	Fruit, temperate	Pome fruit	Apples	Apples	L1021011		192
9	Primary Production	Wild collection	Fruit, wild	Apples, wild	Apples, wild	Apples, wild	Apples, wild	L4046		4
10	Primary Production	Agricultural land and crops	Permanent crops	Fruit, temperate	Stone fruit	Apricots	Apricots	L1021024		44
330	Primary Production	Aquaculture	Aquaculture	Aquaculture	Aquaculture	Aquaculture	Aquaculture	L5	A K2* ??	4
1540	Livestock	Livestock	Aquaculture	Aquaculture, animals, no details	Aquaculture, animals, no details	Aquaculture, animals, no details	Aquaculture animals	Eurostat_L_10		4
1911	Primary Production	Aquaculture	Aquaculture	Aquaculture products	Aquaculture products	Aquaculture products	Aquaculture products	NEU 5.11.2010	A K2* ??	4
1552	Manufactured products	Prepared food and feedstuffs	Fresh or chilled fish, marine, farmed (1000)	Shrimps	Shrimps	Shrimps	Aquaculture products: Shrimps	K104601	replace in Data then remove ??	7
1365	Primary Production	Aquaculture	Aquaculture, no details	Aquaculture, no details	Aquaculture, no details	Aquaculture, no details	Aquaculture, no details	L500		5

# Step 4: Quality checks



# Plausibility checks: Comparing the organic figures with the respective totals (from FAOSTAT)

		Indicator	Year	Conti	Count					
		Area [ha]								
		2009								
		Europe								
		Austria				Bulgaria				
M	M	Ma	Crop	Records	Total	Organic	%org	Re Total	Organic	%org
Agricultural land and crops				117	3'948'155	518'757	13.1%	## 6'003'711	12'320	0.2%
Agricultural land and crops, no details				2	2'803'862	595	0.0%	1 3'050'740		0.0%
Arable crops				94	1'076'702	165'602	15.4%	85 2'783'166	5'554	0.2%
Arable crops, no details				1		878				
Arable crops, no details										
Arable crops, no details				1		878				
Cereals				21	830'609	89'614	10.8%	18 1'829'180	2'758	0.2%
Cereals, no details				1	31'529		0.0%	1 200		0.0%
Cereals, other				1		3'669		1	92	
Barley				3	181'525	10'486	5.8%	2 258'449	307	0.1%
Buckwheat				1	0					
Millet				1	4'295		0.0%	2 4'363		0.0%
Oats				2	26'558	7'074	26.6%	2 19'996	132	0.7%
Triticale				2	50'640	11'272	22.3%	2 5'958	140	2.3%
Rye				2	48'528	14'442	29.8%	2 9'953	353	3.5%
Wheat				5	309'034	34'312	11.1%	3 1'247'720	1'655	0.1%
Maize, grain				3	178'500	8'359	4.7%	2 274'229	79	0.0%
Rice								1 8'312		0.0%
Flowers and ornamental plants				1		4				
Flowers and ornamental plants, no details										
Flowers and ornamental plants,				1		4				
Industrial crops				1		357				
Oilseeds				14	134'024	7'922	5.9%	9 820'763	444	0.1%
Linseed										
Linseed				2	535	72	13.5%	1 180		0.0%
Oilseeds, no details				3	25'365	71	0.3%	2 18'086		0.0%
Peanuts										
Peanuts								1 10'000		0.0%
Pumpkin seeds										

Area per Country Test    Questionnaire Test    Plausi 1 10%+    Plausi 3 Yield    Plausi 1 10%+ TAB    2 Jahre verglei

# Plausibility checks 2: Organic – versus total yields

	Europe													
	Turkey					Ukraine								
	Record	Area [ha]	Production [t]		Yield [t/ha]	Record	Area [ha]	Production [t]		Yield [t/ha]				
	total	org	total	organic	total	org	total	organic	total	org				
Agricultural land and crops	191 ##	43'440'826	325'831	102'796'991	337'863	2.4	1.0	150 ##	65'377'338	270'193	96'289'371	487'700	1.5	1.8
- Cropland, no details	3		-89'323				0.0							
- Cropland, no details	3		-89'323											
- Cropland, no details	3		-89'323											
- Agricultural land and crops, no det	1	25'180'000						1 1	41'292'000					
- Agricultural land and crops, r	1	25'180'000						1 1	41'292'000					
- Agricultural land and crops, no details	1	25'180'000						1 1	41'292'000					
- Arable crops	122 ##	15'771'944	221'326	86'412'057	151'938	5.5	0.7	103 ##	23'794'062	203'672	94'261'032	486'700	4.0	2.4
- Cereals	18 27	11'954'851	115'660	33'567'893	48'664	2.8	0.4	20 37	15'114'800	134'080	45'406'000	271'000	3.0	2.0
- Cereals, no details								2	2'100		3'500		1.7	
- Cereals, other								2	10'000					
- Barley	2 4	2'977'330	13'606	7'300'000	3'206	2.5	0.2	2 2	4'993'500	25'598	11'833'100		2.4	
- Buckwheat								2 5	254'300	3'292	188'600	2'000	0.7	0.6
- Millet	4	3'356		7'561		2.3		4 3	121'700	2'112	181'000		1.5	
- Oats	2 4	92'684	242	218'286	344	2.4	1.4	2 5	415'700	3'755	730'700	6'000	1.8	1.6
- Triticale	2 3	28'373	1	98'716	5	3.5	9.4	2	1'847					
- Rye	2 4	138'488	729	343'330	203	2.5	0.3	2 5	461'000	7'120	953'500	13'000	2.1	1.8
- Wheat	2 4	8'026'900	98'607	20'600'000	25'788	2.6	0.3	2 7	6'752'900	56'626	20'886'400	160'000	3.1	2.8
- Maize, grain	2 4	591'279	2'421	4'250'000	18'921	7.2	7.8	2 5	2'089'100	23'730	10'486'300	90'000	5.0	3.8
- Rice	2 4	96'441	54	750'000	197	7.8	3.6	2 1	24'500		142'900		5.8	
- Industrial crops	4		1'648		1'779		1.1	2	100					
- Oilseeds	18 14	750'980	833	1'374'855	478	1.8	0.6	12 24	6'034'445	44'465	9'418'041	57'400	1.6	1.3
- Linseed														
- Linseed	2 4	20	1	10	2	0.5	2.0	2 5	18'000	796	12'000	400	0.7	0.5
- Oilseeds, no details	4	48'893		34'194		0.7		4	187'245		128'641		0.7	
- Peanuts														
- Peanuts	2	25'335		90'081		3.6								

# Comparing two years

	2008	2009	
Europe			
Albania	270	500	85.3
Andorra		2	
Austria	492'632	518'757	5.3
Belgium	35'721	41'459	16.1
Bosnia and Herzegovina	691	580	-16.1
Bulgaria	16'663	12'320	-26.1
Channel Islands	430	430	
Croatia	10'010	14'194	41.8
Cyprus	2'322	3'816	64.3
Czech Republic	341'632	398'407	16.6
Denmark	150'104	156'433	4.2
Estonia	87'346	95'167	9.0
Faroe Islands	12	12	
Finland	150'374	166'171	10.5
France	583'779	677'513	16.1
Germany	907'786	947'115	4.3
Greece	317'824	326'252	2.7
Hungary	122'816	140'292	14.2
Iceland	6'970	6'661	-4.4
Ireland	44'751	47'864	7.0
Italy	1'002'414	1'106'684	10.4
Latvia	161'625	160'175	-0.9
Liechtenstein	1'053	1'005	-4.6
Lithuania	122'200	129'055	5.6
Luxembourg	3'535	3'614	2.2
Macedonia	3'380	1'489	-55.9
Malta	12	26	118.7
Moldova	11'695	32'105	174.5
Montenegro	1'876	4'603	

# Data compilation and dissemination

## Shares of organically managed agricultural land by region and country

The share of the world's organic agricultural of all agricultural land is 0.85 percent.

By region, the share is highest in Oceania (2.8 percent), followed by Europe with 1.9 percent and Latin America with 1.4 percent. In the 27 countries of the European Union, the share of organically managed land is more than 4.7 percent. In the other regions, the share of organically managed land is less than one percent (see Table 2).

Many countries, however, exhibit much higher percentages (Figure 3, Figure 4) and seven countries have even reached shares of more than ten percent of the agricultural land, most of these in Europe. The country with the highest share is the Falkland Islands (Malvinas), where several large sheep farms are working organically. It is interesting to note that many island states have high shares.

However, 68 percent of the countries for which data are available have less than one percent organic agricultural land.

Table 2: Organic agricultural land (including in-conversion areas) and shares of total agricultural land 2009

	Agr. land (hectares)	Share of total agr. land
Africa	2309921	0.20%
Asia	2582918	0.25%
Europe	9209934	1.80%
Latin America	8509918	1.20%
Oceania	12029188	2.80%
Northern America	2952918	0.68%
Total	37389127	0.85%

Source: IRI/IPCAM Survey 2011, based on data from government bodies, the private organic sector and certifiers. For detailed data sources see annex.

In order to calculate the percentages, the data for most countries were taken from the FAO Statistical database FAOSTAT (as of 2008).<sup>1</sup> For the European Union, most data were taken from Eurostat.<sup>2</sup> Where available, data for total agricultural land from ministries was used (for instance U.S., Switzerland, and Austria), which sometimes differ considerably from those published by Eurostat or FAOSTAT.

Please note that in some cases the calculation of the shares of organically managed land, based on the Eurostat and FAOSTAT data, might differ from the organic shares obtained from ministries or local experts.

<sup>1</sup> FAOSTAT, Data Archive, the FAO homepage, FAO, Rome at faostat.fao.org > Resources > Resources at <http://faostat.fao.org/site/337/default.aspx?lang=en>

<sup>2</sup> Eurostat: Data - key agricultural statistics at [http://ec.europa.eu/agriculture/agrsta/2011/table\\_en/2012.pdf](http://ec.europa.eu/agriculture/agrsta/2011/table_en/2012.pdf), The Eurostat Homepage, Eurostat, Luxembourg



Figure 3: The ten countries with the highest shares of organic agricultural land 2009

Source: IRI/IPCAM Survey 2011, based on data from government bodies, the private organic sector and certifiers. For detailed data sources see annex.

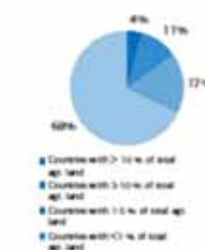


Figure 4: Distribution of the shares of organic agricultural land 2009

Source: IRI/IPCAM Survey 2011, based on data from government bodies, the private organic sector and certifiers. For detailed data sources see annex.

## Related tables

### Annex

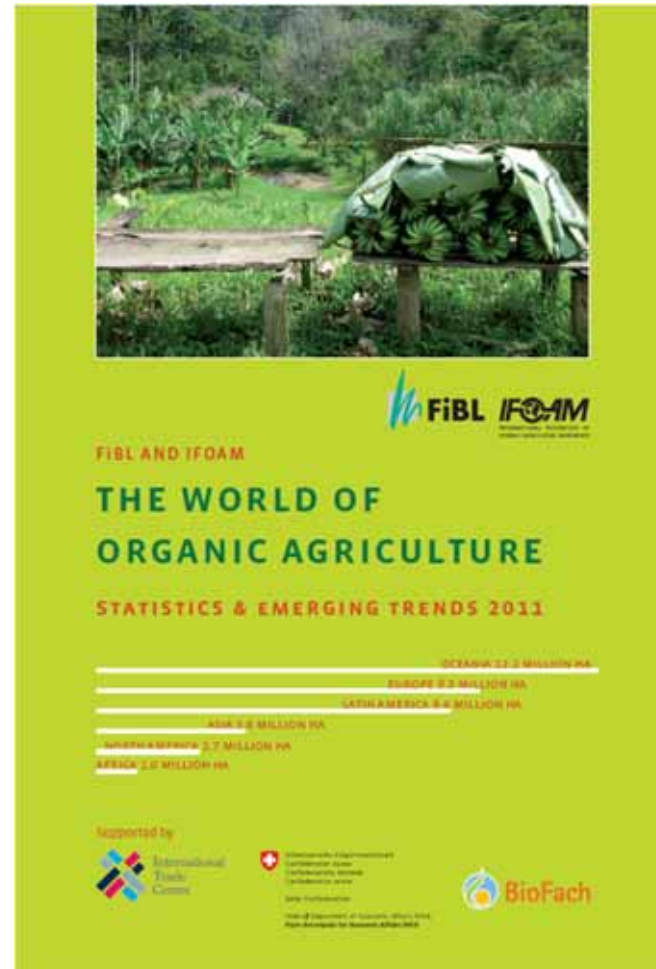
- Table 38: Organic agricultural land, share of total agricultural land and number of producers
- Table 43: Shares of organic agricultural land by country 2009, sorted
- Table 42: Share of organic agricultural land: The top ten countries per region 2009

www.Organic-World.net > Password area (organic2011; organicworld)

- Organic agricultural land, share of total agricultural land and number of producers; in excel format
- Shares of organic agricultural land 2005-2009; in excel format
- Power Point presentation with key results on organic agricultural land

# The World of Organic Agriculture 2011


- › The 12th edition of 'The World of Organic Agriculture', was published by FiBL and IFOAM in February 2011.\*
- › **Contents:**
  - › Results of the survey on organic agriculture worldwide;
  - › Organic agriculture in the regions and country reports;
  - › Armenia, Australia, Canada, Chile, China, Costa Rica, Indonesia, Kazakhstan, Republic of Korea, Pacific Islands, Switzerland, Tunisia, Uganda, United States and Ukraine.
  - › Chapters on the global market, standards & legislations, voluntary standards and organic beekeeping
  - › Numerous tables and graphs.
  - › The book can be ordered via IFOAM.org and shop.FiBL.org.
  - › \*Willer, H, and Kilcher, L. (2011) The World of Organic Agriculture. Statistics and Emerging Trends 2011. IFOAM, Bonn, and FiBL, Frick




# Data tables in excel

## ORGANIC AGRICULTURAL LAND


**Organic agricultural land/share of total agricultural land/development by country and region, Last update June 16, 2011**

 [Organic agricultural land \(in-conversion and fully converted\) by country; share of total agricultural land 2005-2009 \(sheet 1\) \(491 KB\)](#)

[HTML version \(only via internet explorer\)](#)

 [Organic agricultural land \(in-conversion and fully converted\) by geographical region; share of total agricultural land 2005-2009 \(sheet 2\) \(491 KB\)](#)

[HTML version \(only via internet explorer\)](#)

 [Organic agricultural land \(in-conversion and fully converted\) by geographical region 1999-2009 \(sheet 3\) \(491 KB\)](#)

[HTML version \(only via internet explorer\)](#)



[The World of Organic Agriculture 2011](#)

[Key results](#) [Tables](#) [Press release](#) [Summary](#) [Table of contents](#) [Order book](#) [Graphs](#) [Password area \(with PDF, tables etc.\)](#) [Clarifications and corrigenda](#)

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**The World of Organic Agriculture 2010**

# Dynamic data tables

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## Dynamic Data Table with Key Data From the FiBL/IFOAM Survey

Please choose at least one Region or one Country.

### Region

- Africa
- Asia
- Europe
- Latin America
- Northern America

### Country

- Afghanistan
- Albania
- Algeria
- American Samoa
- Andorra

### Item

- Area (ha)
- %Organic Producers

### Year

- 2005
- 2006
- 2007
- 2008
- 2009

### y-axis

- Year
- Item

### On this passage

> [Disclaimer/Copyright notice data tables](#)

# Conclusions

- › **Data on organic farming are needed for policy makers as a decision tool and to assess the success of policy measures, and for market actors to assess the market/economic impact.**
- › **More information on production, domestic supply with organic food, export volumes and yields is needed.**
- › **There is a clear need for governments to provide better data.**
- › **With more and more countries implementing organic farming regulations data collection activities should be eased in the future, and governments should support such activities.**



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