



## Organic Agriculture Worldwide: Key results from the FiBL survey on organic agriculture worldwide 2020

Part 2: Land use and key crops in organic agriculture 2018

Helga Willer, Bernhard Schlatter, Jan Trávníček, Laura Kemper and Julia Lernoud

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

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## Part 2: Land use and key crops in organic agriculture 2018

- Data compiled by the Research Institute of Organic Agriculture FiBL, Frick, Switzerland, based on national data sources and data from certifiers.
- Data as published February 2020 in FiBL & IFOAM – Organics International (2020): The World of Organic Agriculture. Statistics and Emerging Trends 2020. Frick and Bonn
- For updates check [www.organic-world.net](http://www.organic-world.net)
- This presentation is available online at: <http://www.organic-world.net/yearbook/yearbook2020/slide-presentations.html>
- Texts and graphs: Helga Willer, Bernhard Schlatter, Jan Trávníček, Laura Kemper and Julia Lernoud, Research Institute of Organic Agriculture, FiBL, Frick, Switzerland
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# Acknowledgements\*

- The Swiss State Secretariat of Economic Affairs (SECO), Berne



- International Trade Centre (ITC)



- Sustainability Fund of Coop Switzerland



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



- IFOAM – Organics International



- 200 experts from all parts of the world contributed to the FiBL survey 2020

\* See also disclaimer on last page of this slide show

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[www.fibl.org](http://www.fibl.org)

# The World of Organic Agriculture 2020

The 21<sup>st</sup> edition of “The World of Organic Agriculture”, was published by FiBL and IFOAM in February 2020.\*

- Contents:
  - Results of the survey on organic agriculture worldwide.
  - Numerous graphs, tables, maps and infographics.
  - Organic agriculture in the regions and reports from Australia, Canada, the Pacific Islands, and The United States of America.
  - Chapters on the global market, standards & legislations, PGS, policy support, the European market, etc.
  - The book can be ordered via IFOAM.bio and shop.FiBL.org.

\* Willer, Helga, Bernhard Schlatter, Jan Trávníček, Laura Kemper and Julia Lernoud (Eds.) (2020): The World of Organic Agriculture. Statistics and Emerging Trends 2020. Research Institute of Organic Agriculture (FiBL), Frick, and IFOAM – Organics International, Bonn



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**THE WORLD OF  
ORGANIC AGRICULTURE**  
STATISTICS & EMERGING TRENDS 2020

Region	Area (Million HA)
OCEANIA	36
EUROPE	15.6
LATIN AMERICA	8
ASIA	6.5
NORTH AMERICA	3.3
AFRICA	2

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State Secretariat for Economic Affairs SECO

# Website www.organic-world.net

- Detailed statistics in excel format
- Graphs & Maps
- Data revisions
- News and background information

## Organic World

Global organic farming statistics and news

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- ▶ 2010 edition
- ▶ 2009 edition
- ▶ 2008 edition
- ▶ 2000-2007

### The World of Organic Agriculture 2020

#### 2020 edition of "The World of Organic Agriculture"

The 2020 edition of "The World of Organic Agriculture" will be launched on February 12, 2020 at BIOFACH in Nürnberg, Germany.

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### The World of Organic Agriculture 2020



The World of Organic Agriculture 2020

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# About this presentation

There are 3 presentations summarizing the key results of the FiBL survey on organic agriculture worldwide 2020 (data 2018). Apart from the global data, key results on crop and on regional data are presented.

More information is available at [www.organic-world.net](http://www.organic-world.net)

The following three presentations are available at <http://www.organic-world.net/yearbook/yearbook2020/slide-presentations.html>:

- Part 1: Global data 2018 and survey background
- Part 2: Land use and key crops in organic agriculture 2018
- Part 3: Organic agriculture in the regions 2018

# The 21<sup>st</sup> survey on organic agriculture world-wide

The 21<sup>st</sup> survey on organic agriculture worldwide was carried out by the Research Institute of Organic Agriculture FiBL in cooperation with partners from all around the world. The results were published jointly by FiBL and IFOAM – Organics International.

The survey was carried out between July 2019 and February 2020.

Data were received from 186 countries.

Updated data on area and producers were available for 142 countries.

Data was provided by over 200 country experts (representatives from NGOs, certification bodies, governments, researchers).

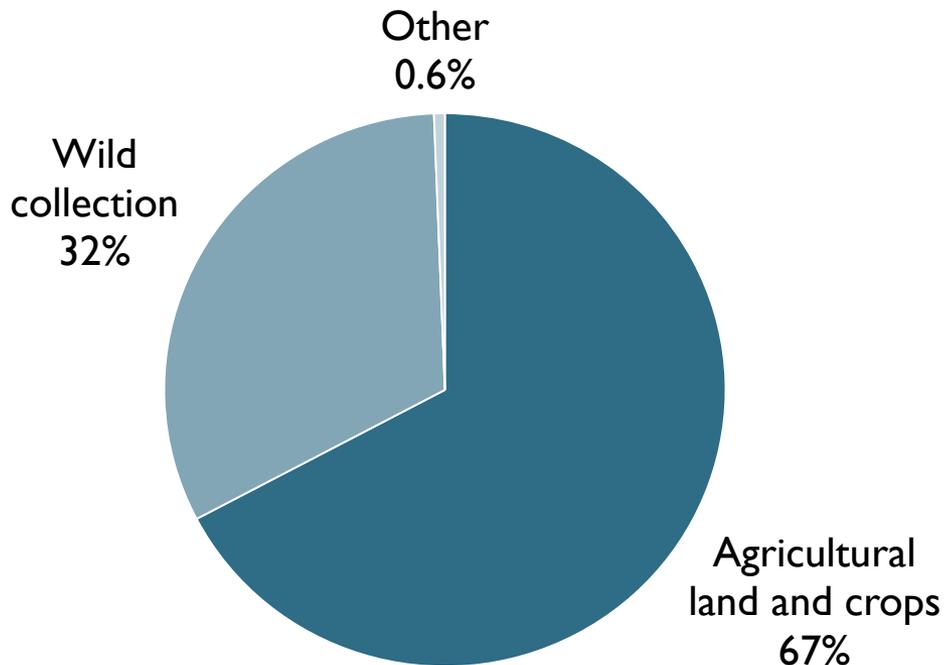
The following data was collected: area data (including land use and crop details); producers, other operator types; domestic market values; export and import data; and livestock data (animal heads and production in metric tons);

The results are published in the yearbook “The World of Organic Agriculture 2020” and at [www.organic-world.net](http://www.organic-world.net).

# World: Distribution of organic areas 2018

## Distribution of all organic areas in 2018

Source: FiBL survey 2020

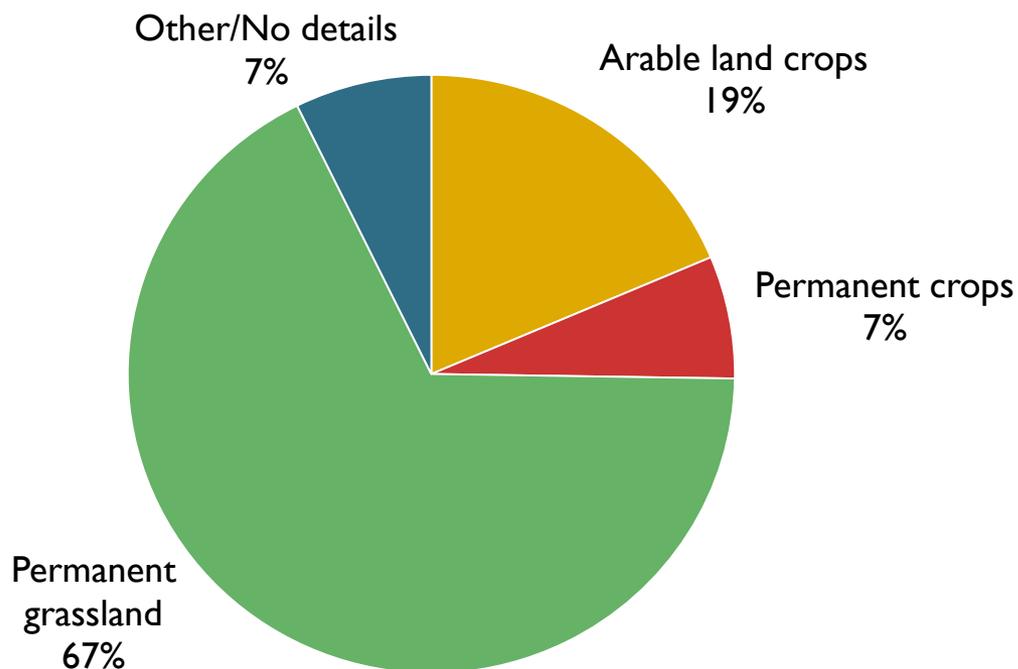


- Agricultural land (71.5 million hectares in 2018)
  - Cropland
    - **Arable land** (cereals, green fodders, oilseeds, etc.)
    - **Permanent crops** (olives, nuts, coffee, etc.)
    - **Cropland, no details** (arable land and permanent crops with no further details)
  - Permanent grassland
  - Other agricultural land
- Non-agricultural areas (35.7 million hectares in 2018)
  - Wild collection/Bee keeping (35.1 million hectares)
  - Forest
  - Aquaculture
  - Grazing areas on non-agricultural land

# World: Use of organic agricultural land 2018 (total: 71.5 million hectares)

## Distribution of main land use types and crop categories 2018

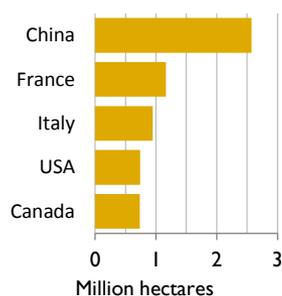
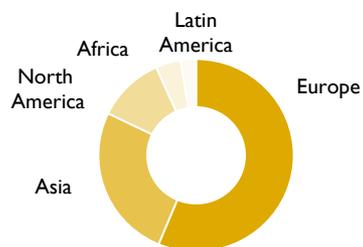
Source: FiBL survey 2020; based on information from the private sector, certifiers, and governments.



# ORGANIC LAND USE 2018



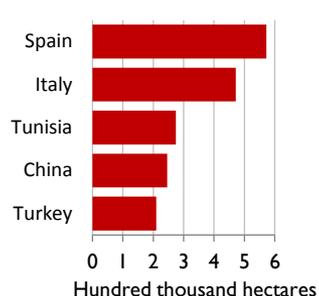
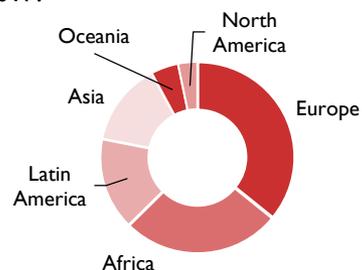
Arable land constitutes 18.6% of the world's organic agricultural land, and 1.1% of the world's arable crop land. It increased by 5.1% over 2017.



Organic arable land by region 2018  
Organic arable land: The five countries with the largest areas 2018



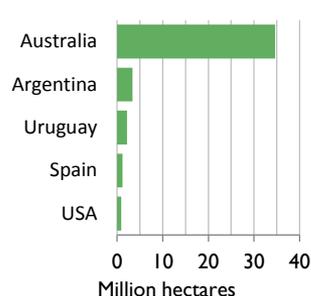
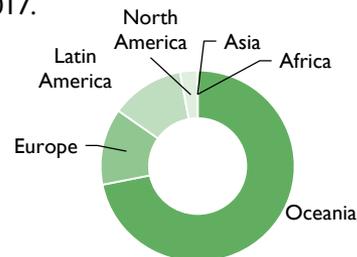
Permanent crops constitute 6.7% of the world's organic agricultural land, and 2.9% of the world's permanent cropland. It decreased by 2.9% over 2017.



Organic permanent crops by region 2018  
Organic permanent crops: The five countries with the largest areas 2018



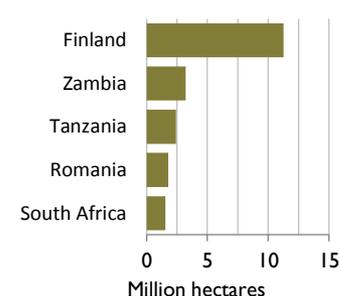
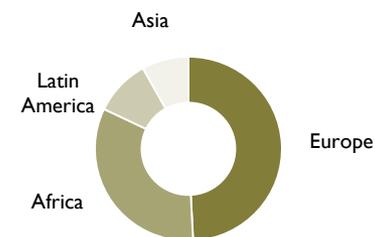
Permanent grassland constitutes 67.4% of the world's organic agricultural land, and 1.5% of the world's permanent grassland. It increased by 3.0% over 2017.



Organic permanent grassland by region 2018  
Organic permanent grassland: The five countries with the largest areas 2018



Over 82% of the wild collection is in Europe (almost 18 million hectares) and Africa (over 14.3 million hectares)

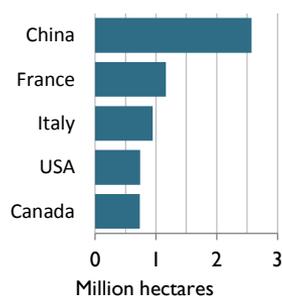
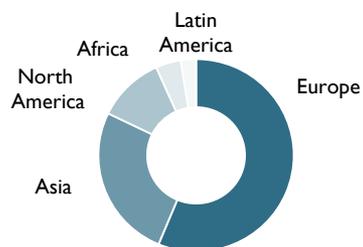


Organic wild collection by region 2018  
Organic wild collection: The five countries with the largest areas 2018

# ORGANIC LAND USE 2018



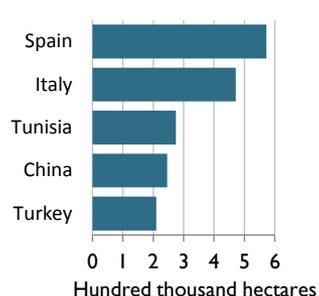
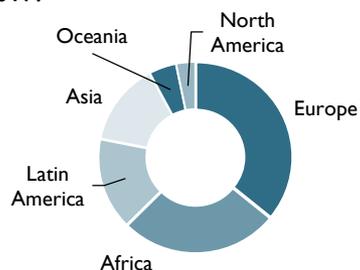
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Organic arable land by region 2018  
Organic arable land: The five countries with the largest areas 2018



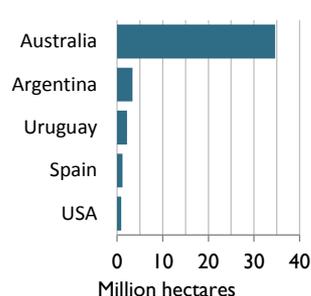
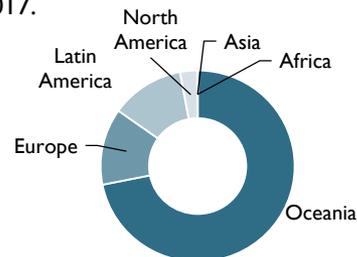
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Organic permanent crops by region 2018  
Organic permanent crops: The five countries with the largest areas 2018



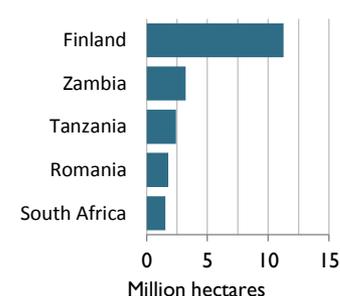
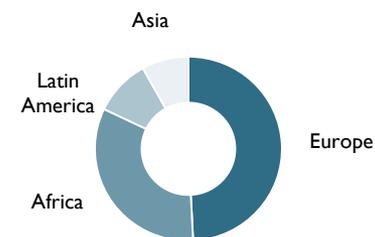
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Over 82% of the wild collection is in Europe (almost 18 million hectares) and Africa (over 14.3 million hectares)



Organic wild collection by region 2018  
Organic wild collection: The five countries with the largest areas 2018

# Main land use types in organic agriculture 2018

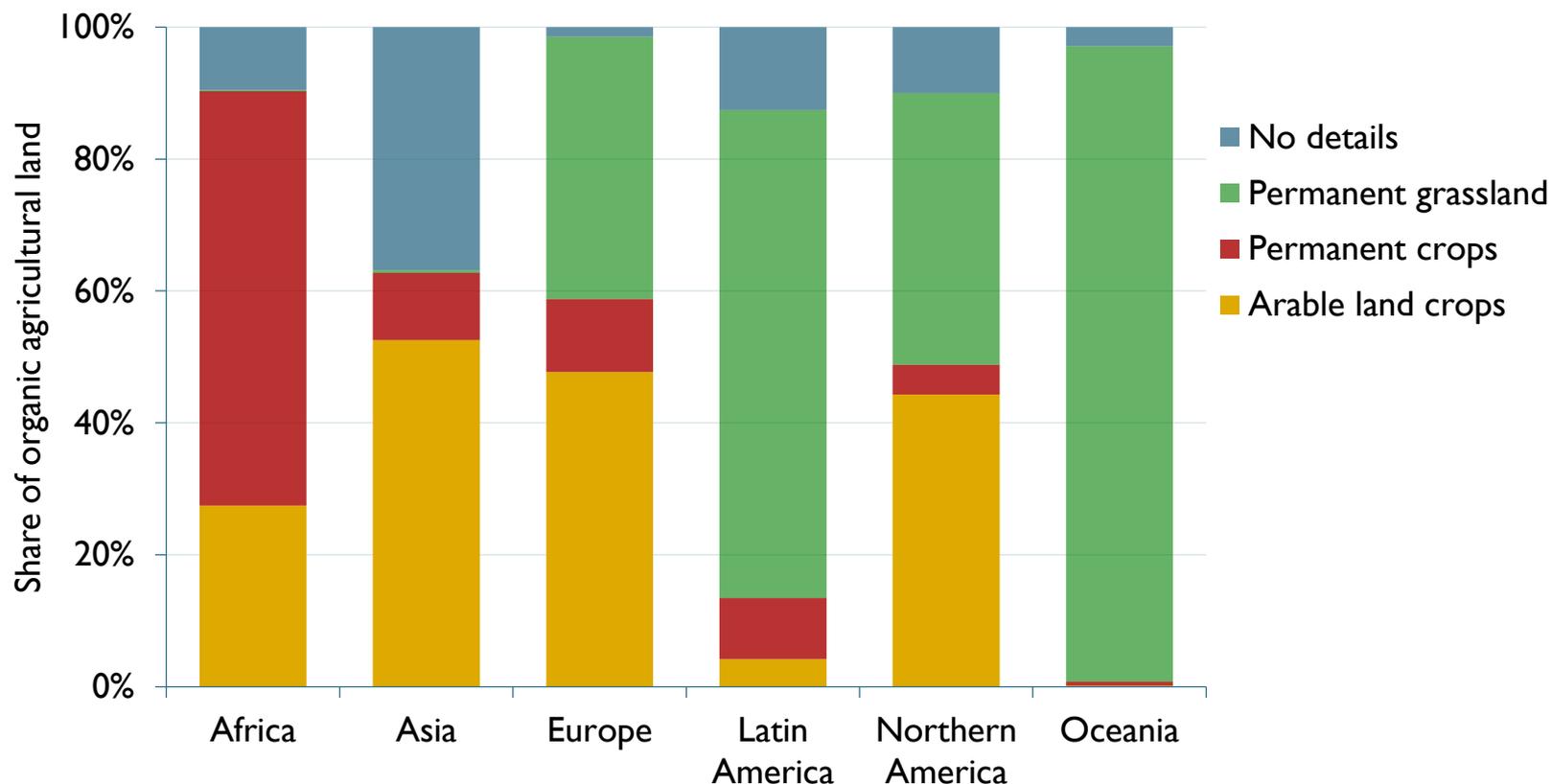
The chart of the share of land use types in the regions shows:

- For a large part of the organic agricultural land in both Latin America (13%) and Asia (37%), land use information is not available
- Africa has a large proportion of permanent crops (63%); these are mainly cash crops such as coffee, olives, nuts, and cocoa.
- Europe and North America use about half of their organic agricultural land as grassland, and the other half is arable land. In Europe the share of permanent crops is higher than in North America, mainly due to olives and grapes grown in the Mediterranean countries.
- Latin America has little arable land and permanent crops land compared to the large grazing areas (Uruguay and Argentina). It has a comparatively high share of permanent crops (mainly coffee and cocoa).
- Oceania is characterized by the large grazing areas of Australia. The Pacific Islands produce a large range of permanent crops, such as coconuts; New Zealand produces a lot of grapes and temperate fruits.

# World: Agricultural land use by region in organic agriculture 2018

## Distribution of main land use types by region 2018

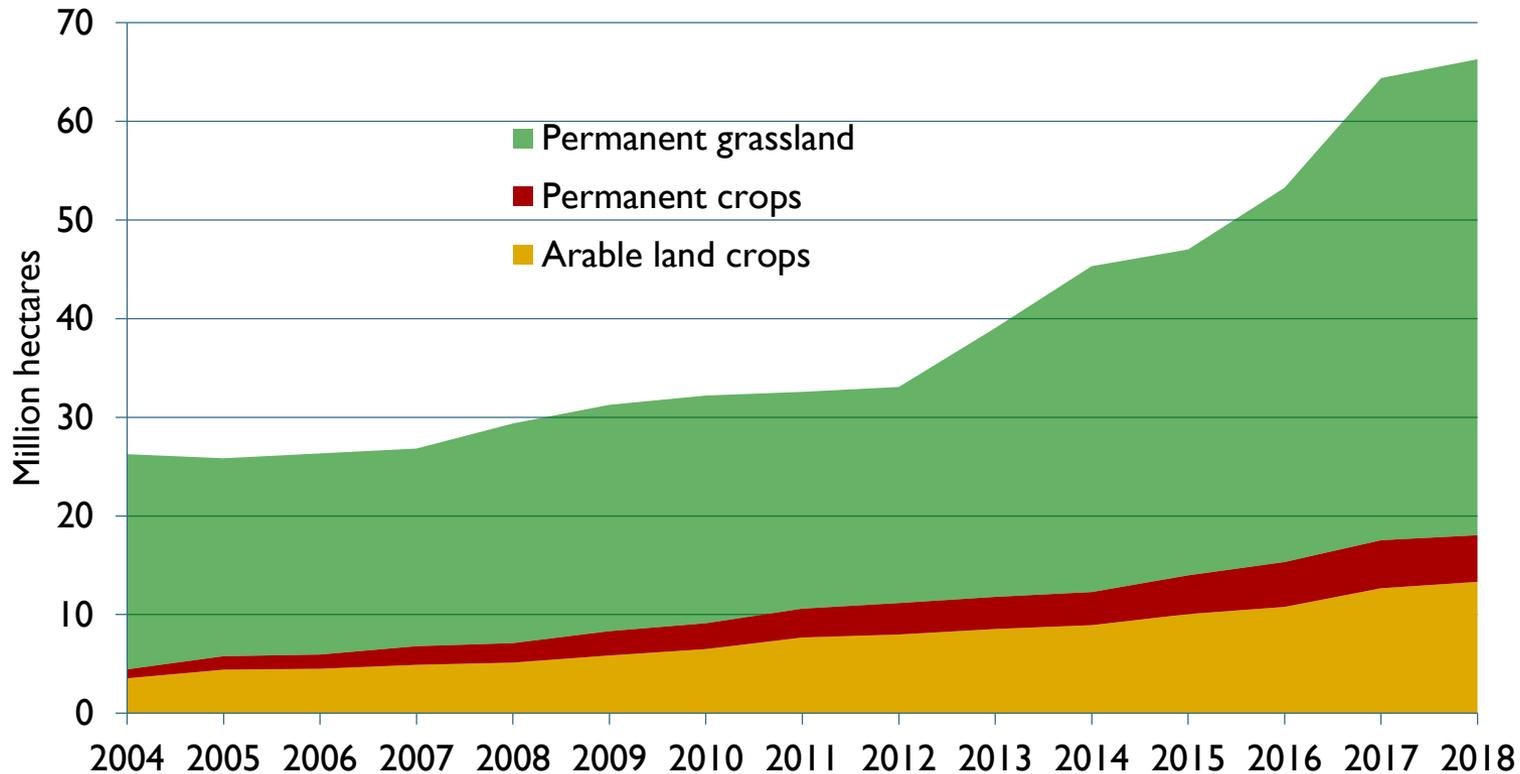
Source: FiBL survey 2020



# World: Development of land use types in organic agriculture 2004-2018

## Development of the organic land by land use type 2004-2018

Source: FiBL-IFOAM-SOEL-Surveys | 1999-2020

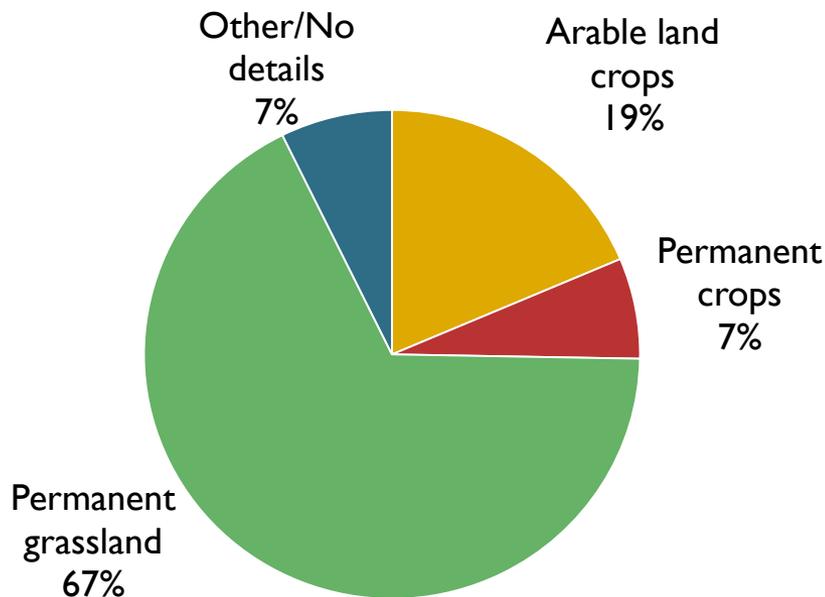


# World: Use of organic agricultural land 2018 (total: 71.5 million hectares)

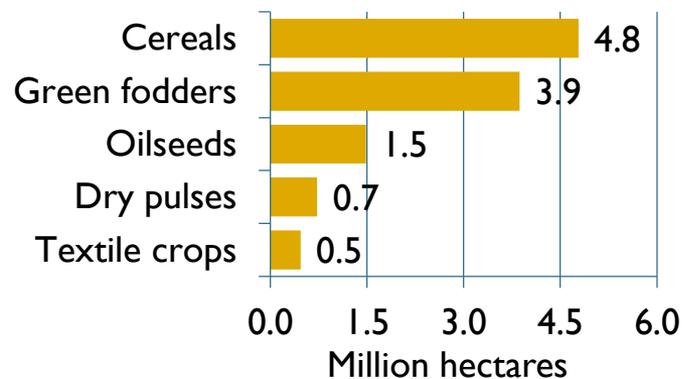
## Distribution of main land use types and crop categories 2018

Source: FiBL survey 2019; based on information from the private sector, certifiers, and governments.

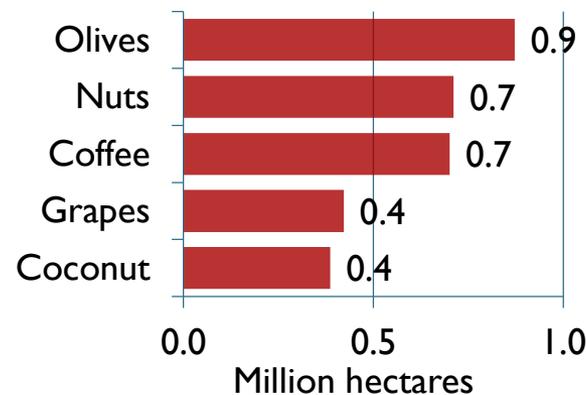
Land use types 2018



Key arable crops



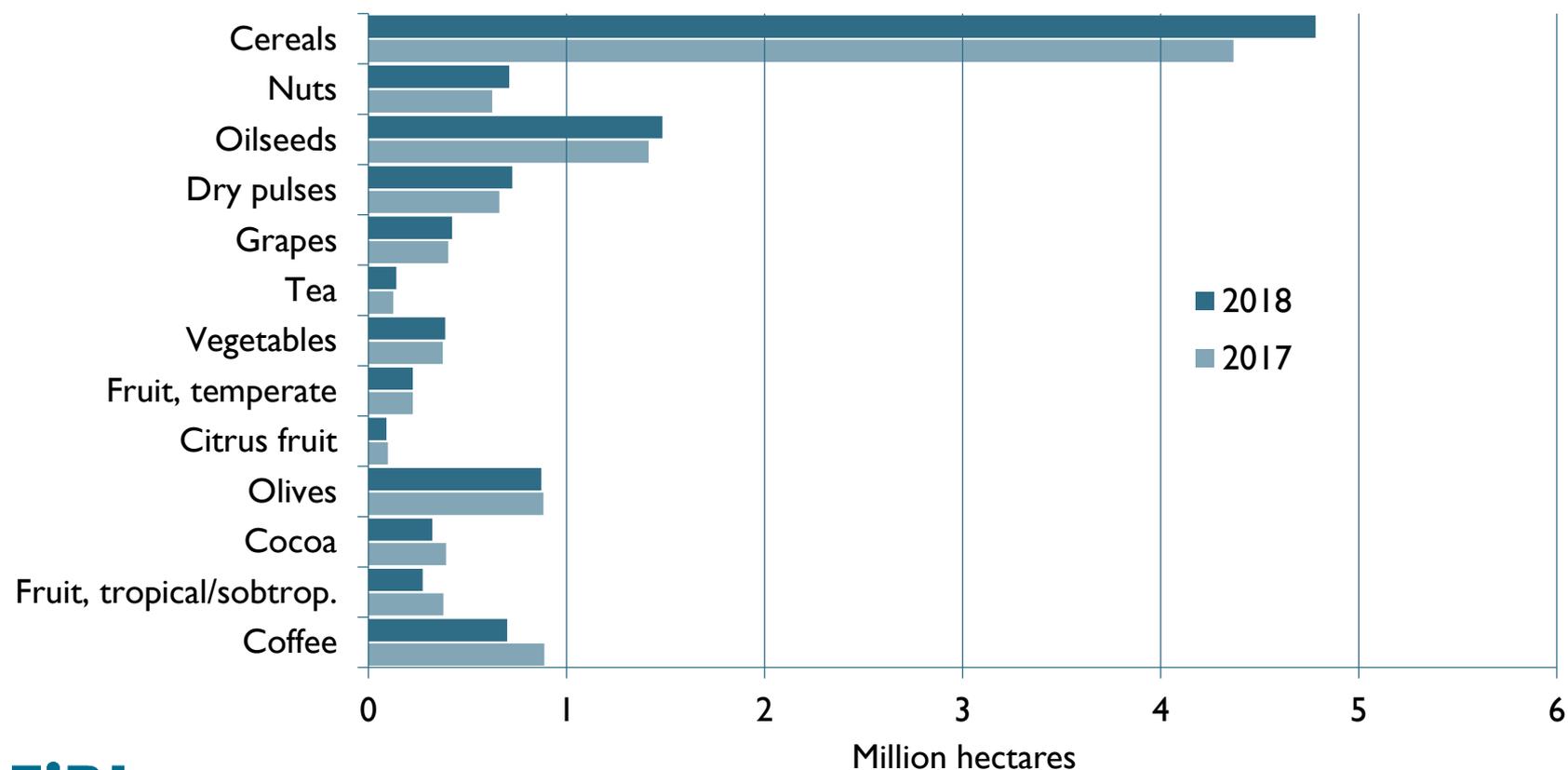
Key permanent crops



# World: Key crop groups in organic agriculture: 2017 and 2018 compared

## Growth of selected crops between 2017-2018

Source: FiBL survey 2019-2020



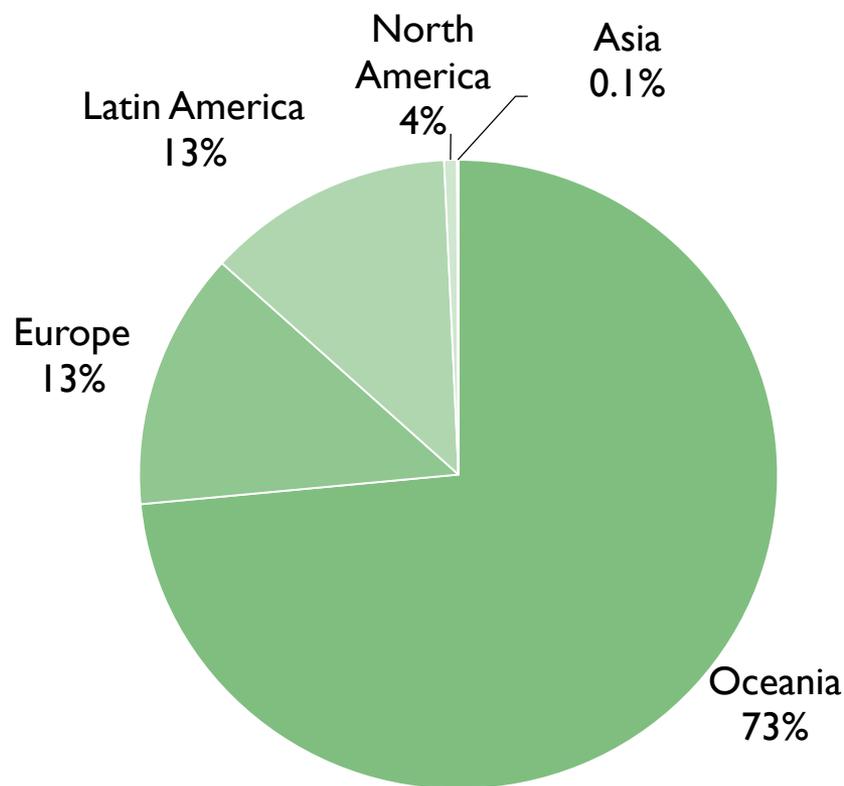
# World: Organic grassland/grazing areas 2018

- With a total of over 48 million hectares, the organic grassland/grazing areas constitute over two thirds or 67 percent of the organic agricultural land.
- The organic grassland/grazing areas account for 1.5 percent of the world's total grassland/grazing areas.
- An increase of 1.4 million hectares or nearly 3 percent was reported compared with 2017.
- More than two third of the organic grassland/grazing areas is located in Oceania (over 70 percent of the organic grassland/grazing area or nearly 35 million hectares), followed by Europe (13 percent or 5.9 million hectares) and Latin America (12 percent or 5.9 million hectares).

# World: Organic permanent grassland/grazing areas by region 2018 (total 48.2 million hectares)

## Organic permanent grassland/grazing areas by region 2018 (total 48.2 million hectares)

Source: FiBL survey 2020



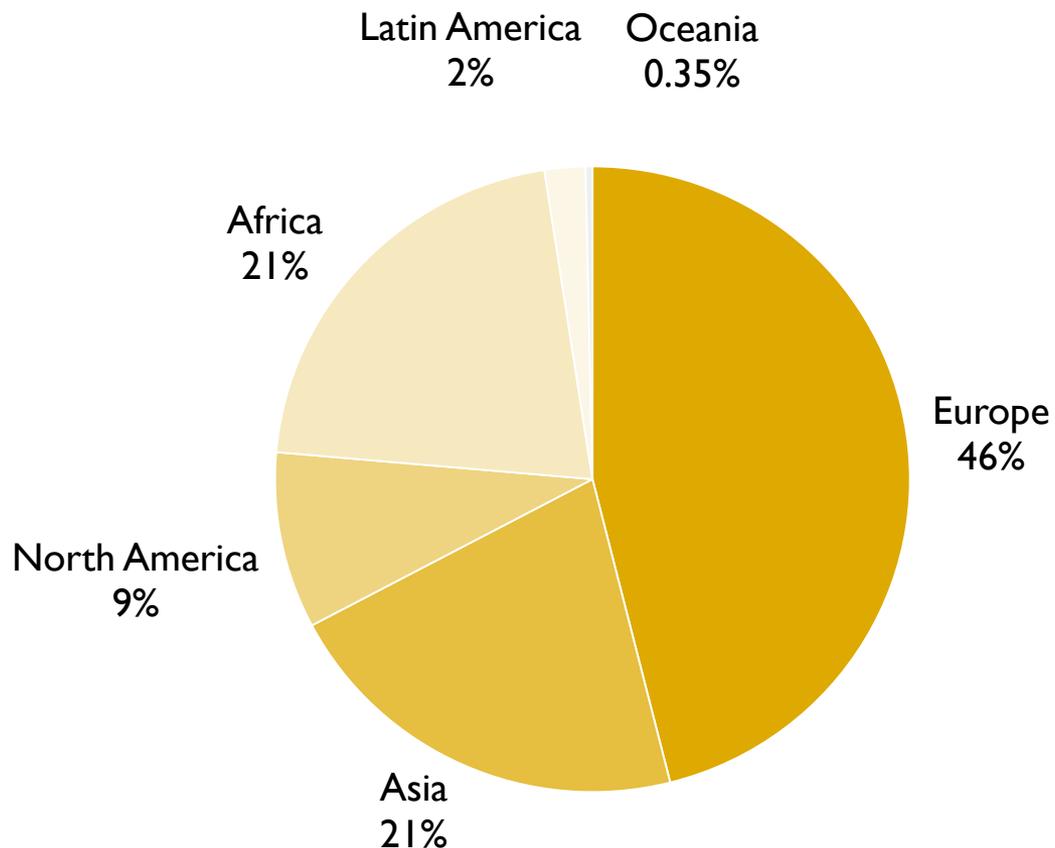
## World: Organic arable land 2018

- With a total of almost 13.3 million hectares, organic arable land constitutes 19 percent of the world's organic agricultural land and 1.1 of the world's arable cropland.
- An increase of 5.1 percent over 2017 was reported, and there was an increase in most crop categories. However, some categories such as industrial crops and flowers reported a drop.
- More than 56 percent of the arable land is located in Europe, followed by Asia (26 percent), and North America (11 percent).
- Most of the arable cropland is used for cereals including rice (4.8 million hectares), green fodder (3.8 million hectares), and oilseeds (1.5 million hectares).

# World: Organic arable land by region 2018 (total 13.3 million hectares)

## Distribution of organic arable cropland by region 2018

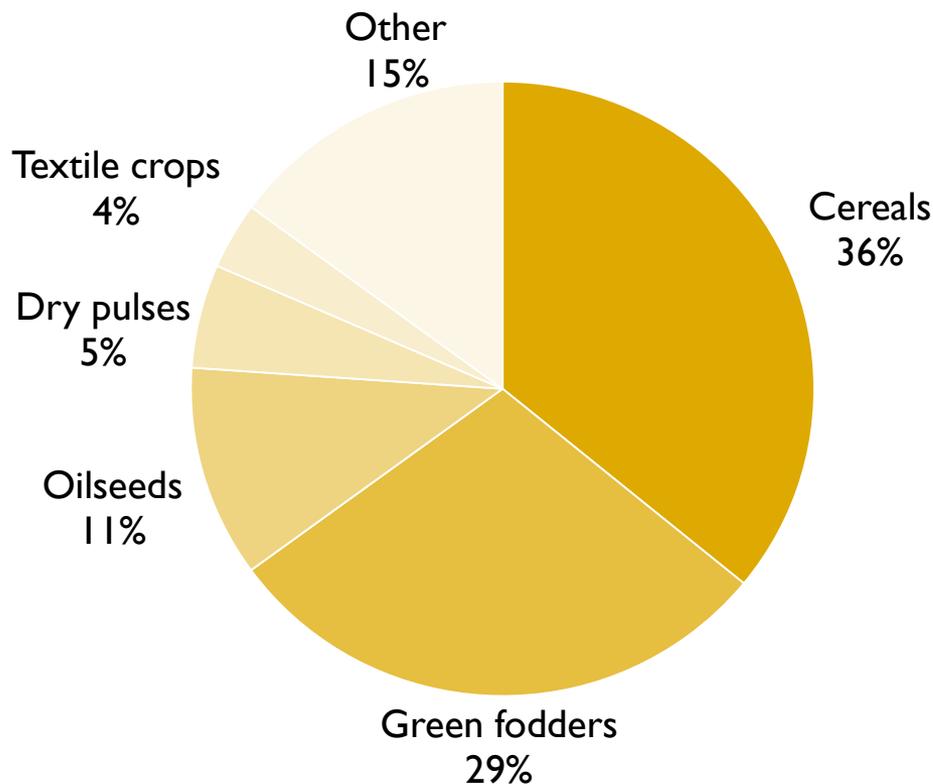
Source: FiBL survey 2020



# World: Organic arable land worldwide by main crop groups 2018 (total 13.3 million hectares)

## Use of organic arable cropland by crop group 2018

Source: FiBL survey 2020



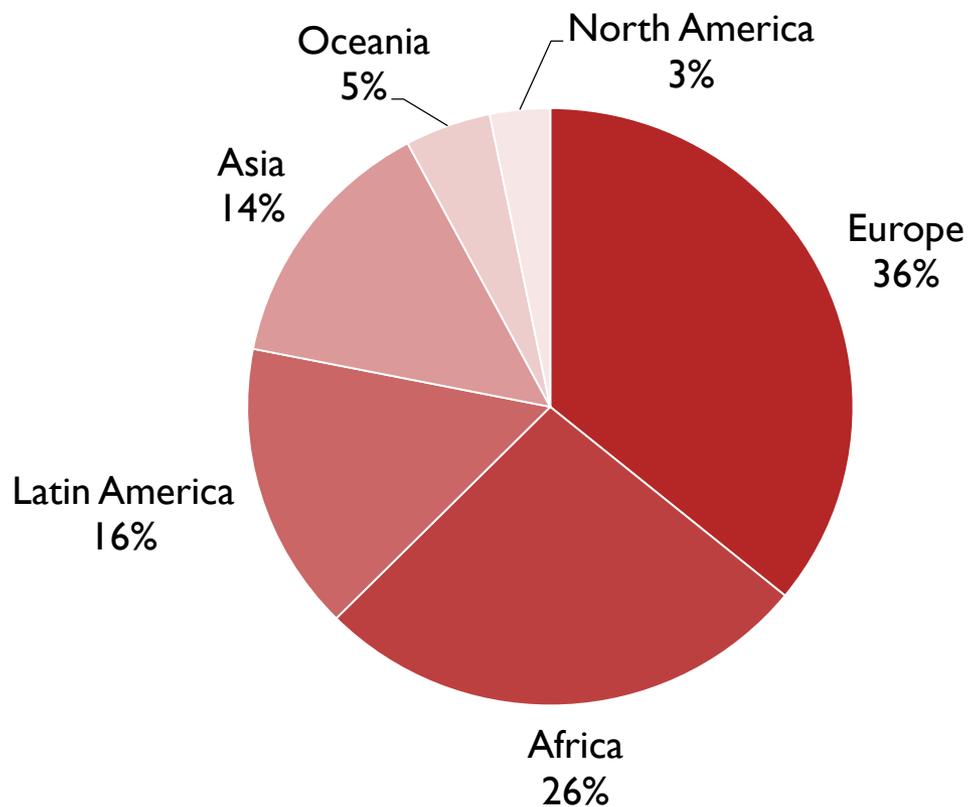
# World: Permanent cropland 2018

- Permanent crops account for more than 4.7 million hectares, which is 2.9 percent of the world's permanent cropland.
- Compared with 2017, a decrease of more than 140'000 hectares, or 2.9 percent, was reported.
- With 6.6 percent, permanent cropland has a higher share in organic agriculture than in total agriculture, where it accounts for 2.6 of the agricultural land.
- Most of the permanent cropland is in Europe (1.7 million hectares), followed by Africa (1.3 million hectares), and Latin America (almost 0.7 million hectares).
- The most important crops are olives, with nearly 0.9 million hectares, constituting almost 20 percent of the organic permanent cropland, followed by nuts (more than 0.7 million hectares), coffee (0.7 million hectares), grapes (0.4 million hectares), and coconuts (almost 0.4 million hectares)

# World: Organic permanent cropland by region 2018

## Distribution of organic permanent cropland by region 2018

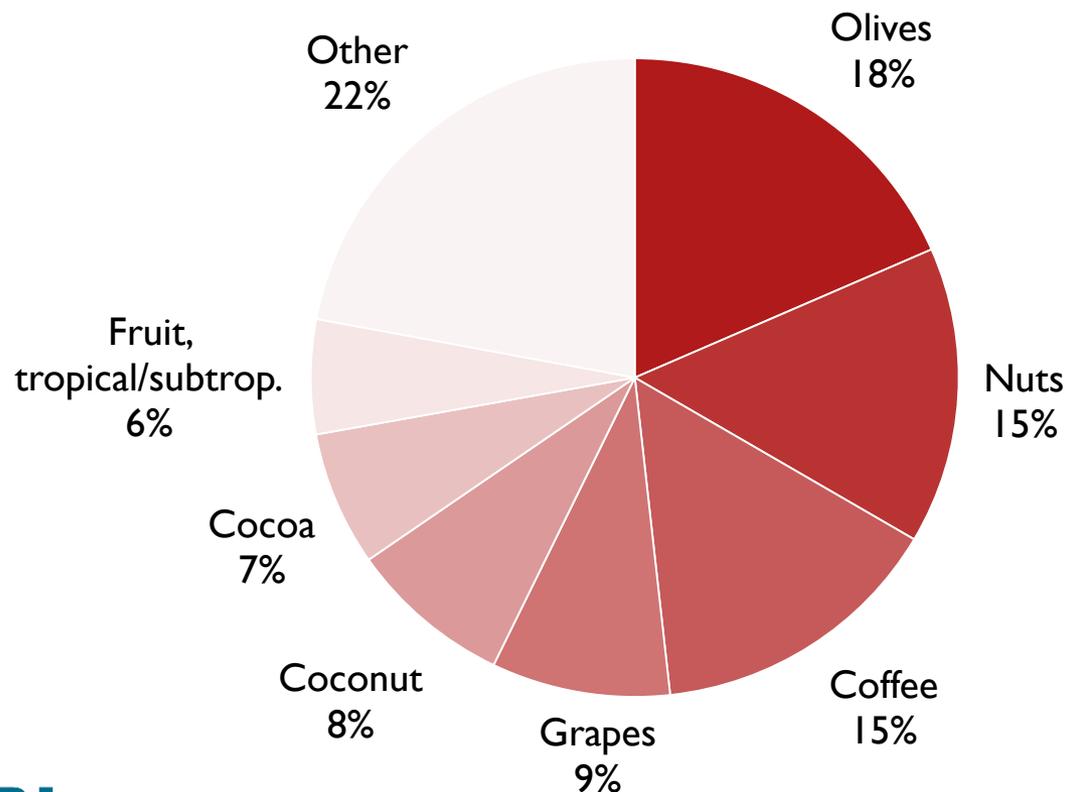
Source: FiBL survey 2020



# World: Organic permanent cropland worldwide by crop groups 2018

## Use of permanent cropland by crop group 2018

Source: FiBL survey 2020

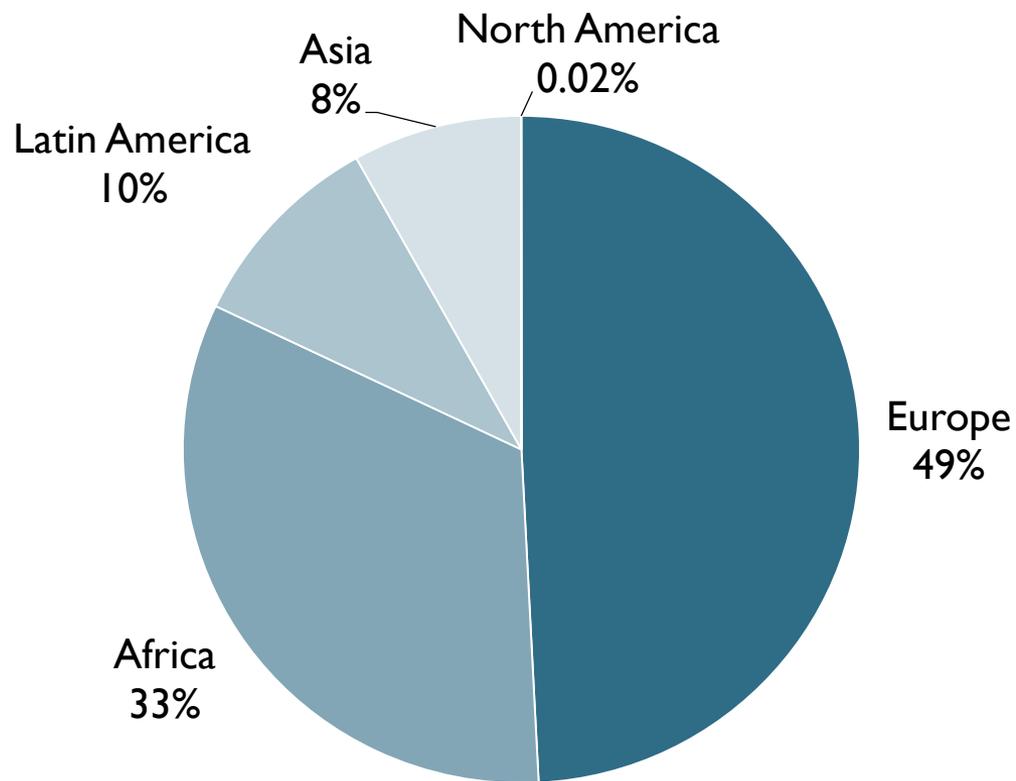


# World: Organic wild collection and beekeeping 2018

- A collection area (including beekeeping) of more than 35 million hectares was reported in 2018.
- The organic wild collection areas are concentrated in Europe, Africa, Latin America, and Asia.
- The countries with the largest areas are Finland (mainly berries), followed by Zambia and the United Republic of Tanzania (beekeeping).
- According to experts, wild berries, apiculture, and medicinal and aromatic plants, as well as shea nuts in Africa and Brazil nuts in Latin America, play the most important roles. Unfortunately, for most of the wild collection areas, no details are available.

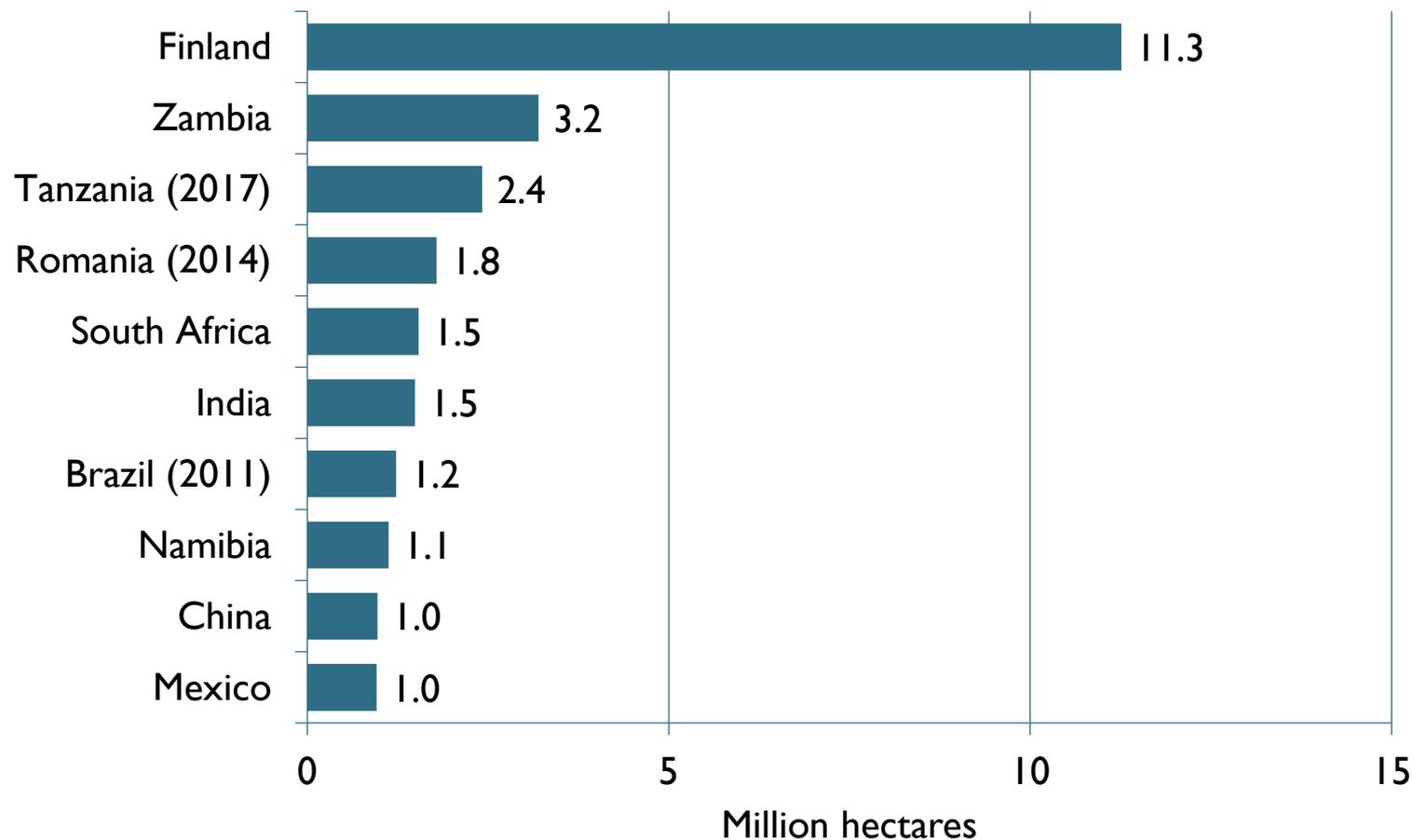
# Distribution of organic wild collection and beekeeping areas by region 2018

Source: FiBL survey 2020



# The ten countries with the largest wild collection and beekeeping areas 2018

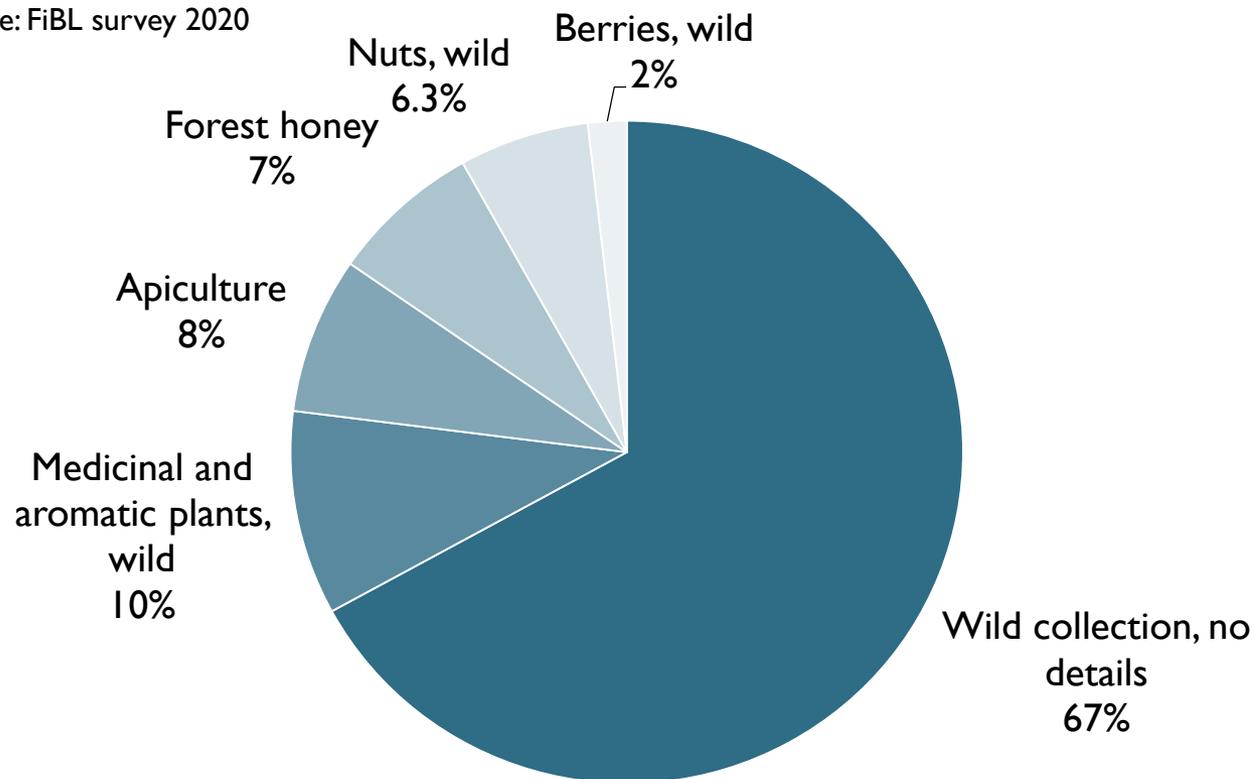
Source: FiBL survey 2020



# World: Use of organic wild collection and beekeeping land worldwide 2018

## Use of organic wild collection and beekeeping land worldwide 2018

Source: FiBL survey 2020

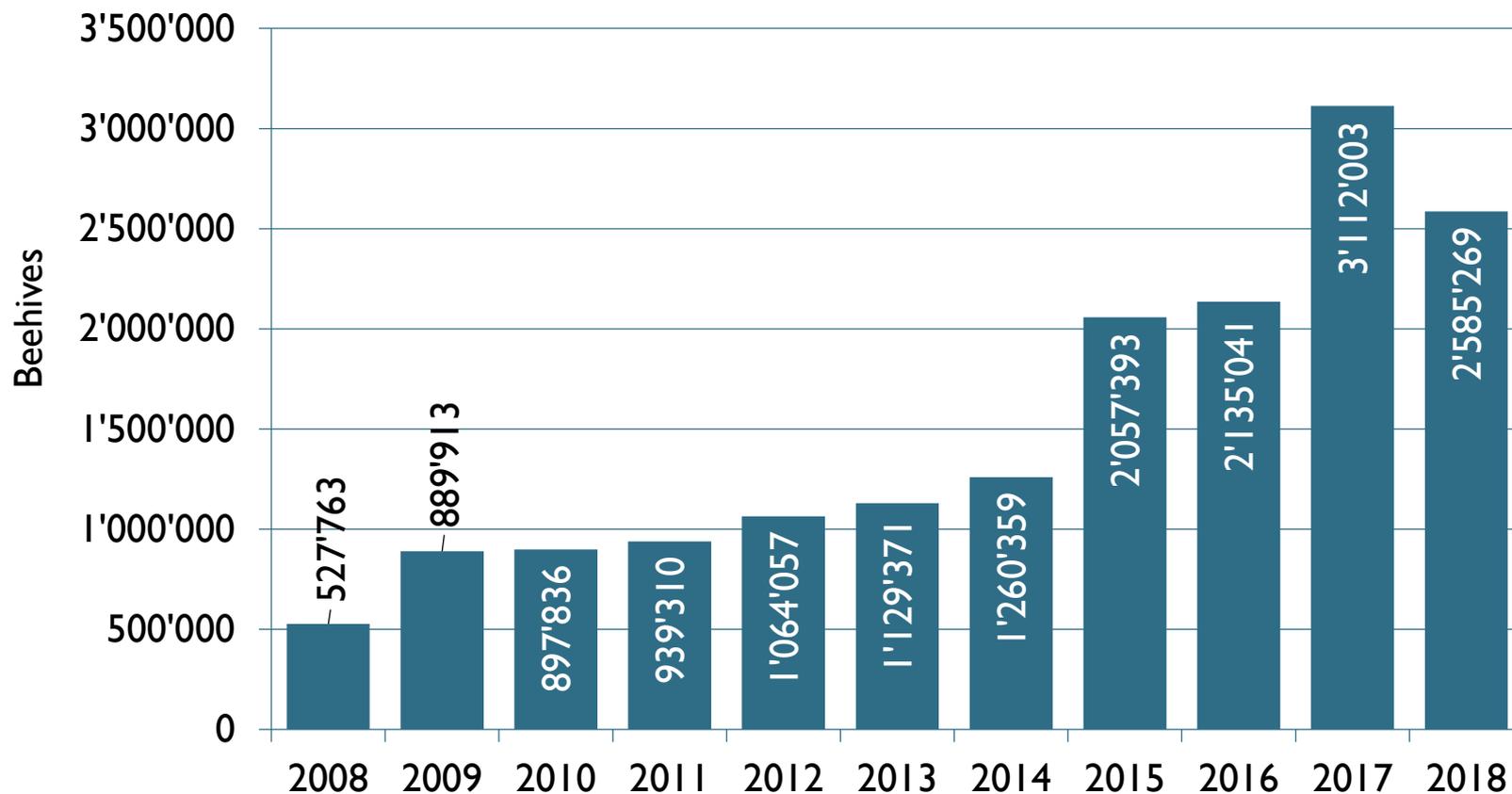


# World: Organic beehives 2018

- There were almost 2.6 million organic beehives in 2018, representing almost 2.6 percent of the world's beehives.
- Organic beehives are concentrated in Latin America (37 percent) and Europe (37 percent).
- The country with the largest number of organic beehives is Brazil (629'939), followed by Zambia (388'067), and Bulgaria (264'069).
- The total number increased almost five-fold since 2007, when over 535'000 beehives were reported. However, it is important to note that some of the increases can be attributed to the continually improving data availability.

# Development of the organic beehives 2007-2018

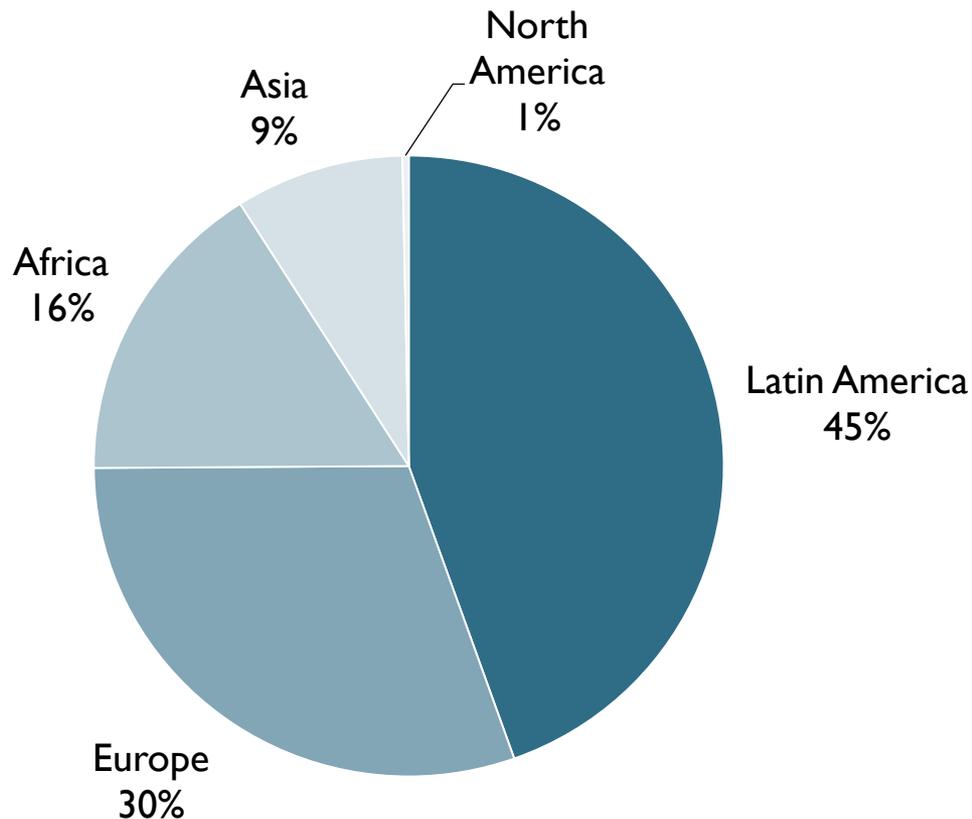
Source: FiBL-IFOAM-SOEL-Surveys 2006-2020



# World: Distribution of organic beehives by region 2018

## Distribution of organic beehives by region 2018

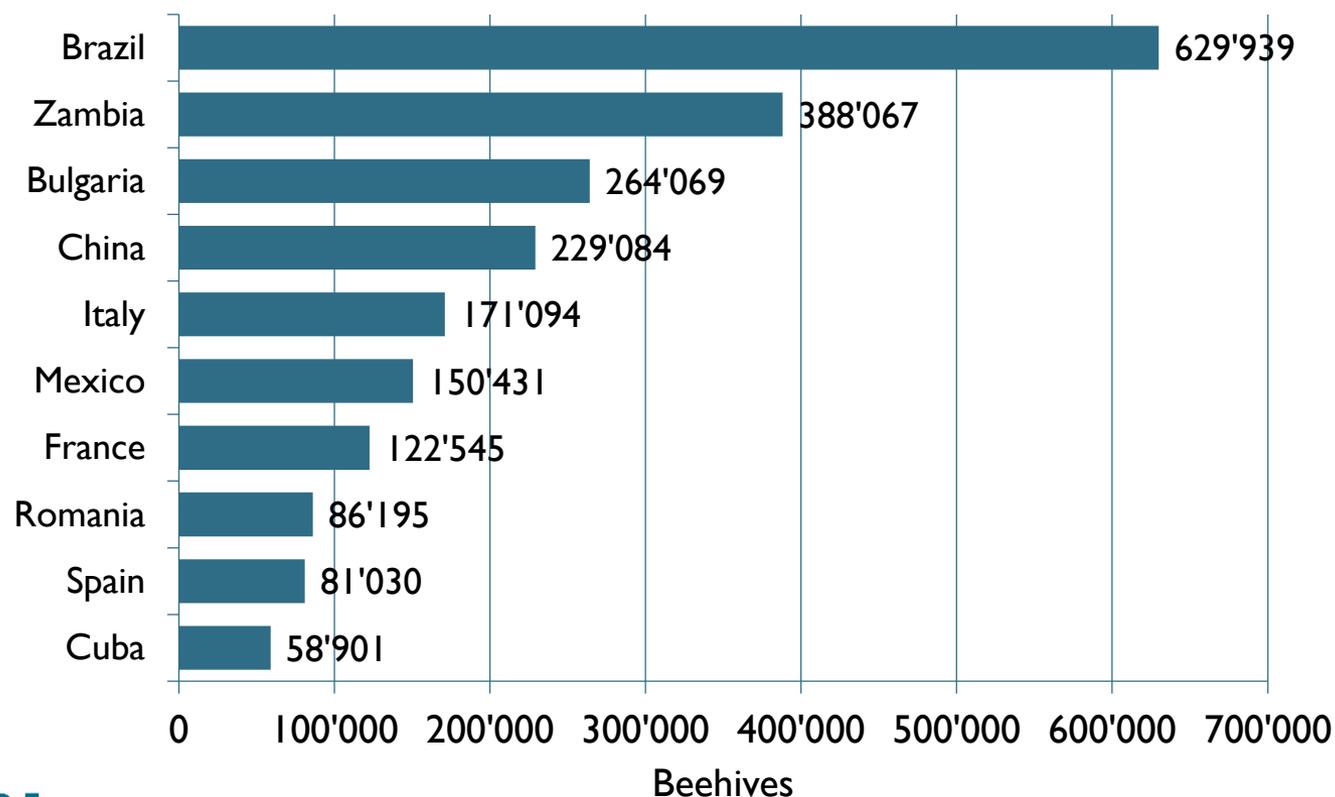
Source: FiBL survey 2020



# World: The ten countries with the largest number of organic beehives 2018

## The ten countries with the largest number of organic beehives 2018

Source: FiBL survey 2020

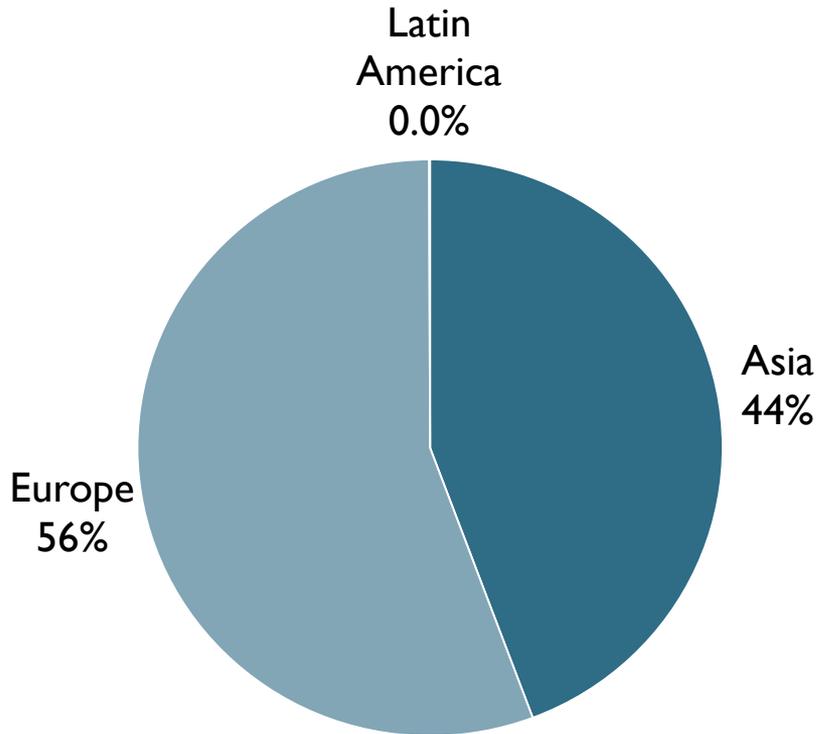


# World: Organic aquaculture 2018

- A production volume of nearly 163'000 metric tons of organic aquaculture was reported in 2018.
- According to the available data, aquaculture production is concentrated in Europe (56 percent) and Asia (44 percent mainly China).
- The largest production volume was found in China (almost 72'000 metric tons) followed by Ireland (more than 27'000 metric tons, mainly blue mussel, salmon and oysters) and Norway (almost 17'000 metric tons).
- A breakdown by species was only available for 13 percent of the total production. According to the available data, organic salmon is the most produced species (over 36'000 metric tons), followed by mussels (19'400 metric tons), aquatic plants (9'000 metric tons), shrimps (almost 6'000 metric tons), and carp (over 5'600 metric tons).

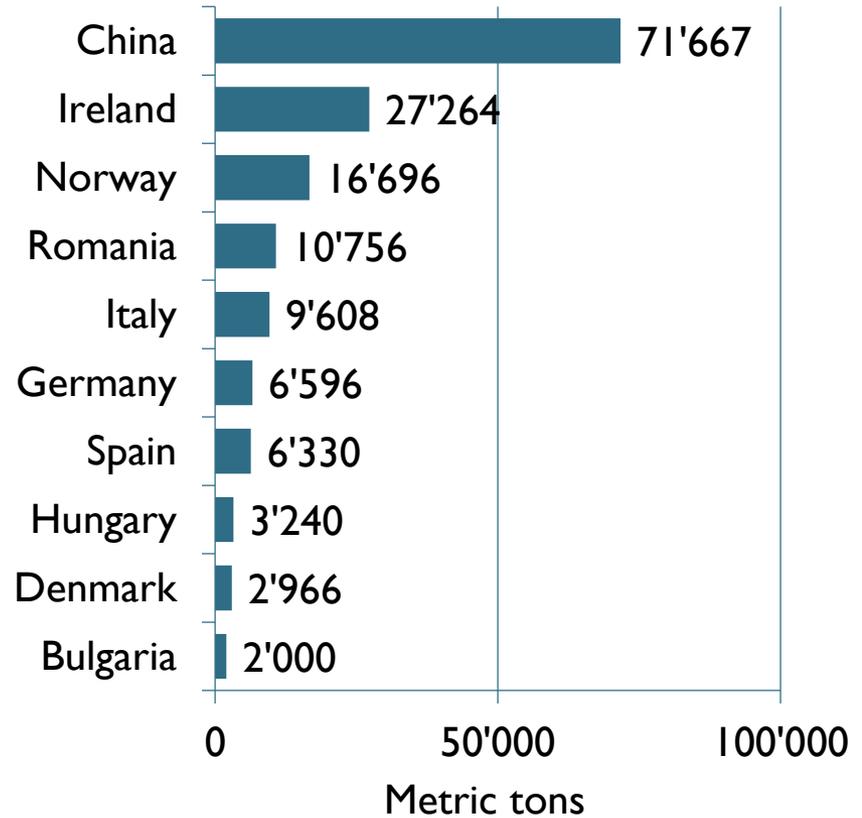
## Distribution of organic aquaculture production volume by region 2018

Source: FiBL survey 2020



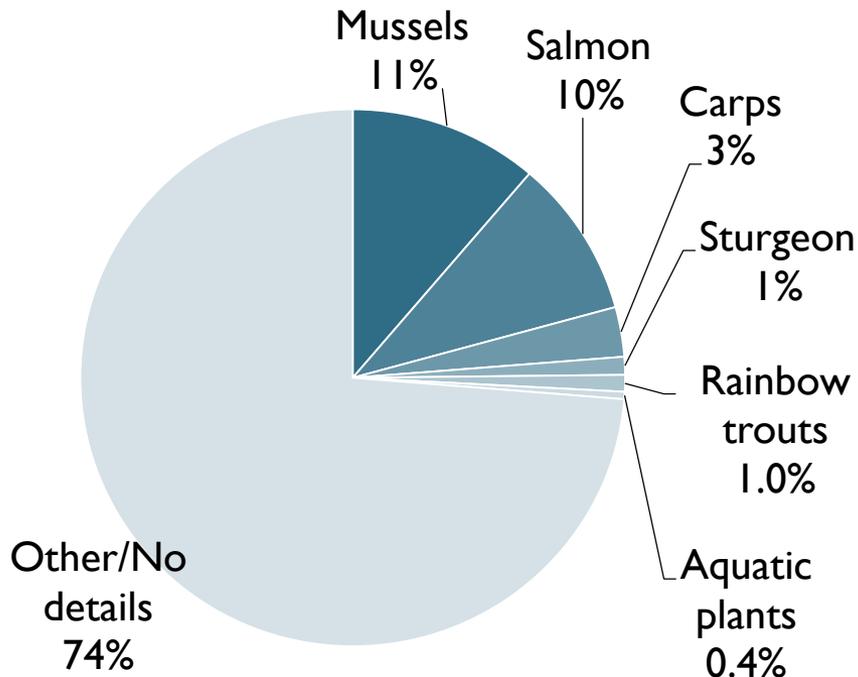
## The ten countries with the largest aquaculture production volume 2018

Source: FiBL survey 2020



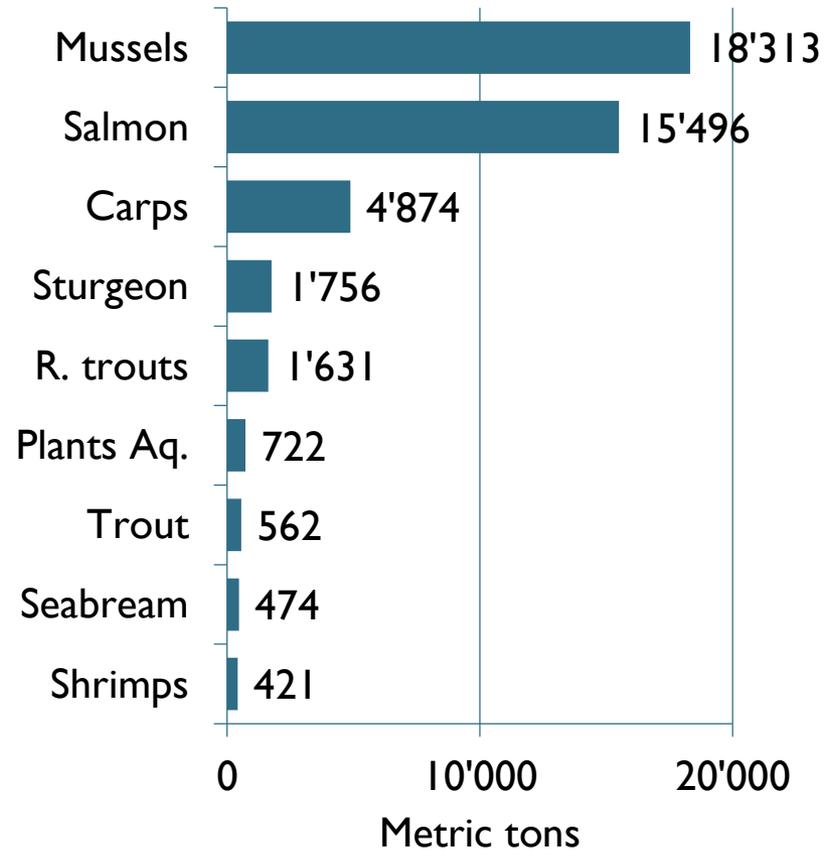
## Distribution of organic aquaculture production volume by species 2018

Source: FiBL survey 2020



## Key organic aquaculture species by production volume 2018

Source: FiBL survey 2020



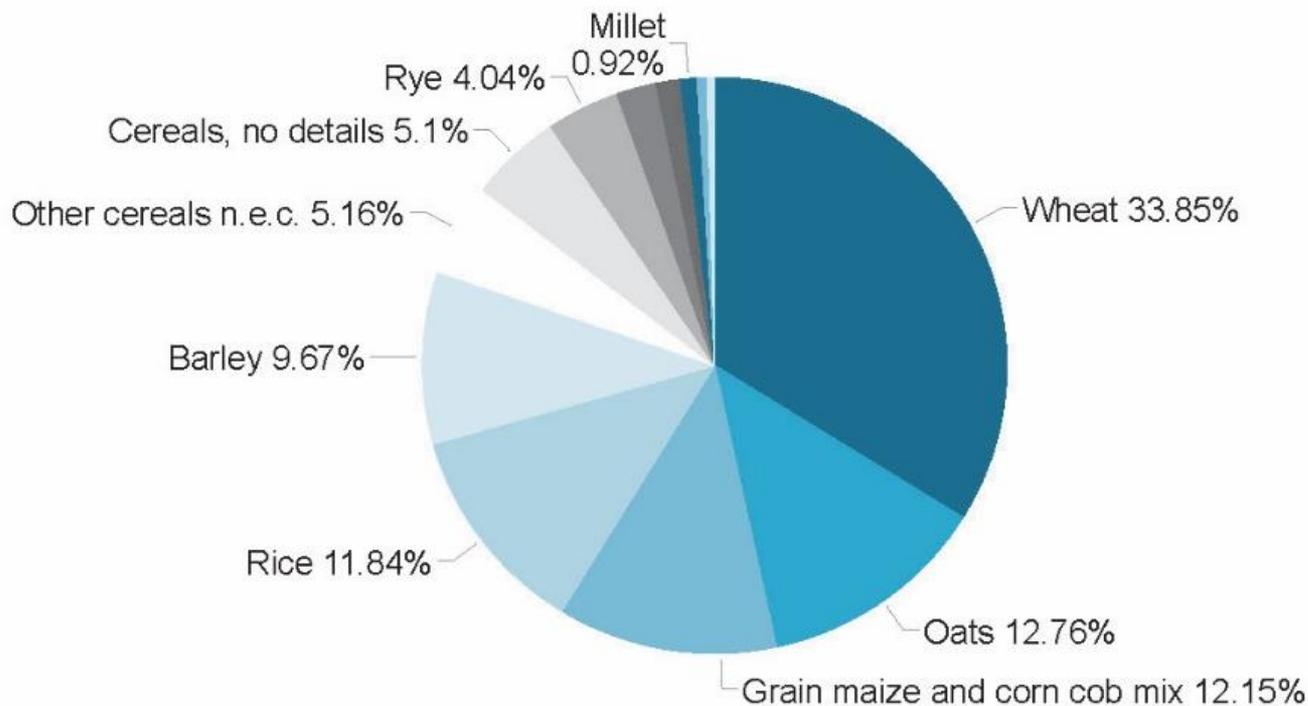
# World: Organic cereals 2018

- Almost 4.8 million hectares of cereals were under organic management in 2018. Comparing the organic figure with FAO's figure for the world's harvested cereal area of 732 million hectares in 2017 (FAOSTAT), 0.7 percent of the total cereal area is under organic management.
- Cereals include wheat, spelt, barley, oats, grain maize, rice, rye, Andean grains, and triticale.
- The key cereal producers worldwide, according to FAO, are China (102.5 million hectares), India (99.2 million hectares), the United States (53.1 million hectares), and the Russian Federation (44.2 million hectares).
- Of these four countries, information on the organic cereal area was available for all except India, and for the Russian Federation data is not complete, so it can be assumed that the cereal area is larger than what is shown here. China (over 968'000 hectares), Italy (more than 326'000 hectares), and Canada (over 319'000 hectares) are the largest organic cereal producers. In China, 0.9 percent of the total cereal area was organic, and in Italy, the organic cereal area represented 10.4 percent of the total cereal area, one of the highest organic shares.
- Some countries reach organic shares that are far higher than the global organic cereal share of 0.6 percent. For example, Austria (15.6 percent), Sweden (12.3), Estonia (13.8 percent), Italy (10.4 percent), and Switzerland (8.7 percent) greatly exceed the global share.
- The organic cereal area has almost quadrupled since 2004 (1.3 million hectares), and in 2017, it increased by over 410'000 hectares or 8.7 percent.
- The available data on the conversion status indicates that over 16 percent of the organic cereal area was in conversion in 2018 (over 770'000 hectares). Thus, there could be a considerable increase in the supply of organic cereals in the near future.



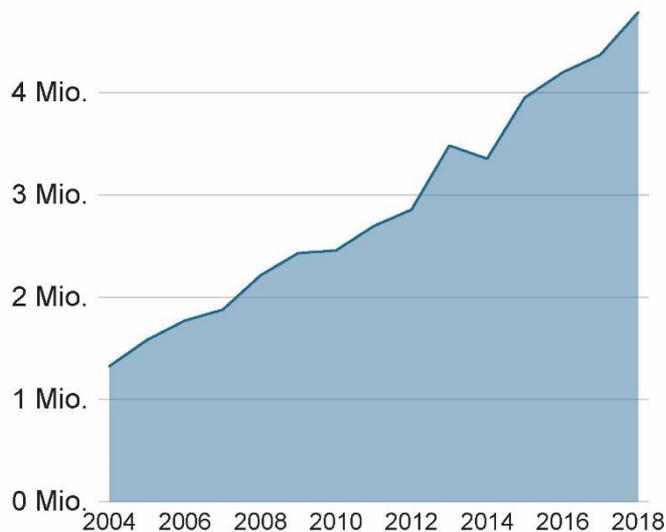
# World: Cereals distribution of the global organic cereal area by cereal type 2018

## Cereals: Distribution of the global organic cereal area by cereal type

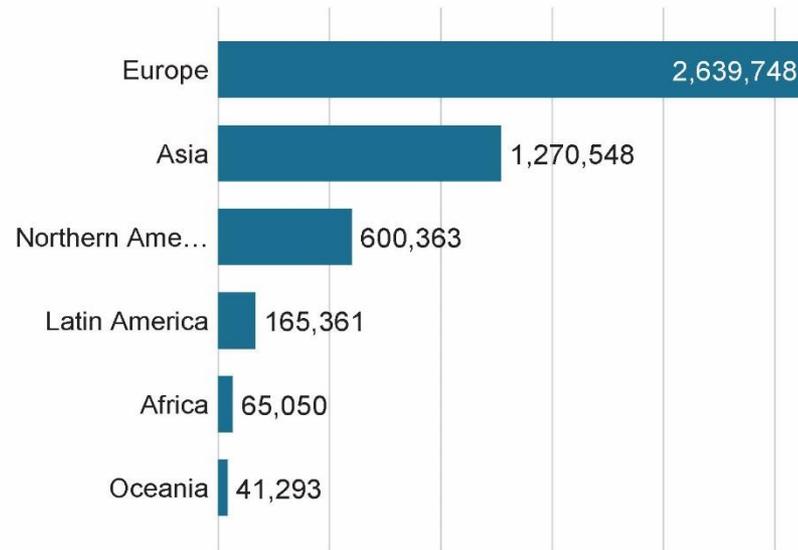


# World: Development of the organic cereal area and area by continent 2018

**The development of the organic cereal area in million hectares**

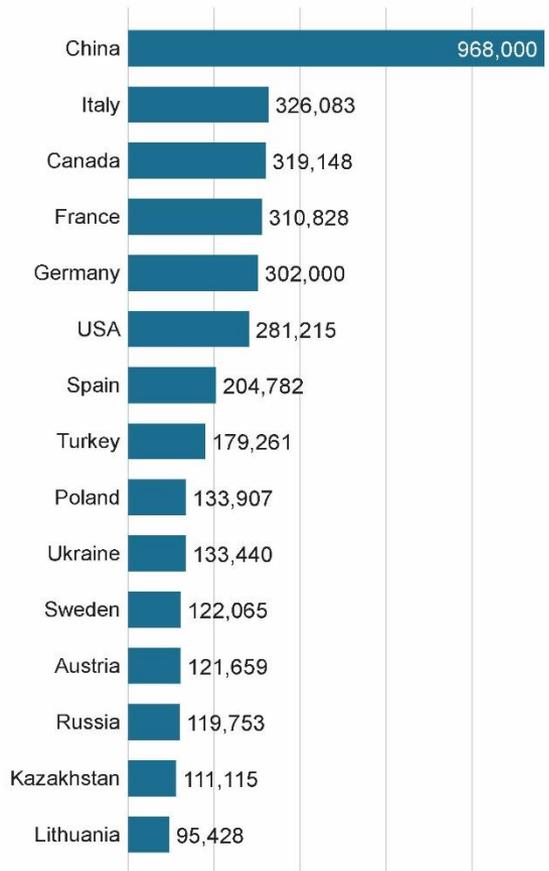


**Organic cereal area by continent in hectares**

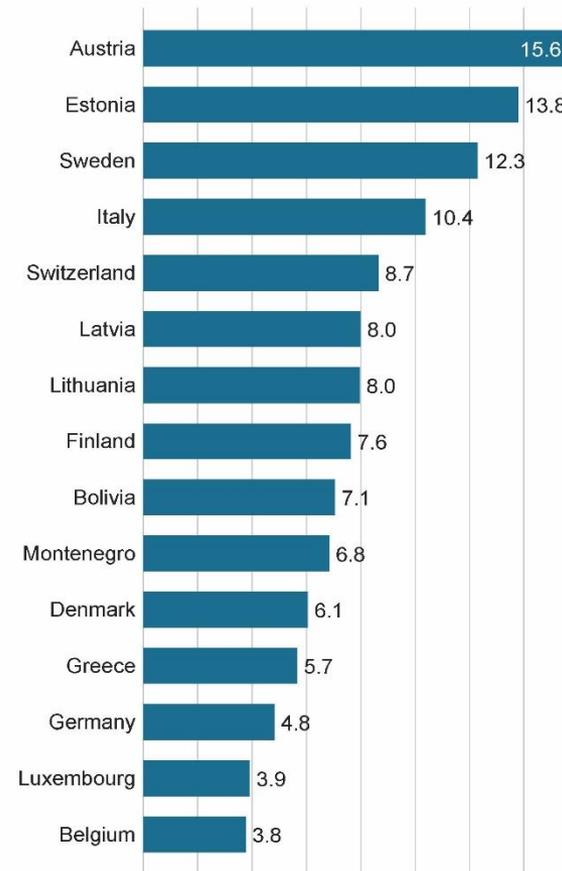


# World: Countries with the largest organic cereal area and highest organic cereal area share 2018

**The countries with the largest organic area in hectares**



**The countries with the highest organic cereal area share in %**

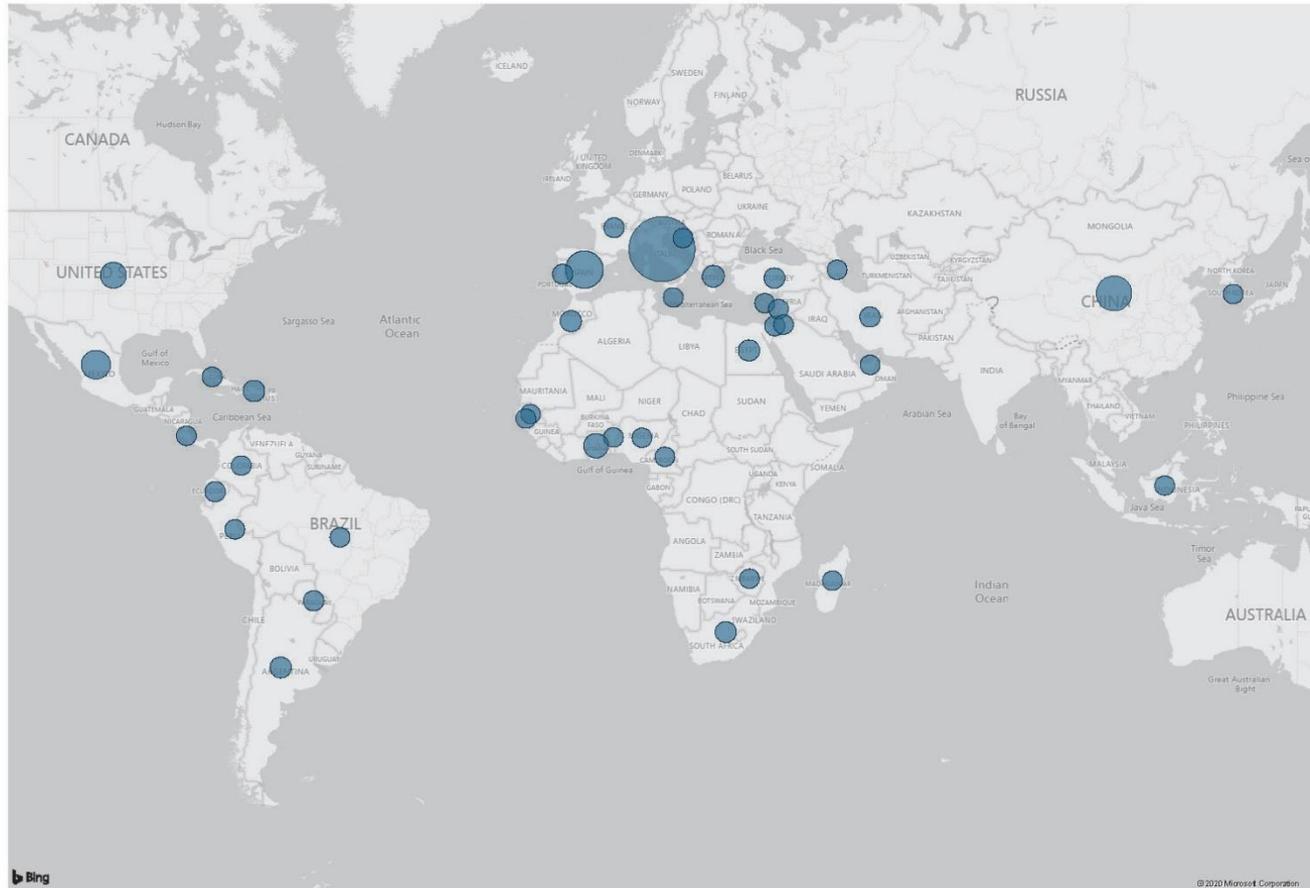


# World: Organic citrus fruit 2018

- Over 90'000 hectares of citrus fruits were grown organically worldwide in 2018. This constitutes 0.97 percent of the world's total citrus area of 9.3 million hectares in 2017 (FAOSTAT).
- As no crop details for the organic area were available for some of the world's leading citrus producers India (1 million hectares) and Brazil (0.7) million hectares according to FAOSTAT), it can be assumed that the global figure for the organic citrus area is higher.
- In organic agriculture, the largest producer is Italy with nearly 36'000 hectares, constituting 24 percent of Italy's harvested citrus fruit area, followed by Spain (over 14'000 hectares, 4.8 percent), China (almost 12'000 hectares, 0.5 percent), and Mexico (over 7'200 hectares, 1.2 percent). Since 2004, when 28'500 hectares of organic citrus were grown, the area trebled. In 2018, the organic citrus area dropped by 9 percent compared with 2017.
- Italy has the highest organic share of the total citrus fruit area. It is followed by Ghana (15.2 percent) and France (9.6 percent).
- The area of organic citrus fruits includes oranges (18 percent of the organic citrus fruit), lemons and limes (11 percent), tangerines (8 percent), and pomelos and grapefruits (6 percent); for 56 percent of the organic citrus area, no crop detail was available.
- The available data on the conversion status indicates that at least 22 percent of the organic citrus area was in conversion in 2018 (more than 20'000 hectares).

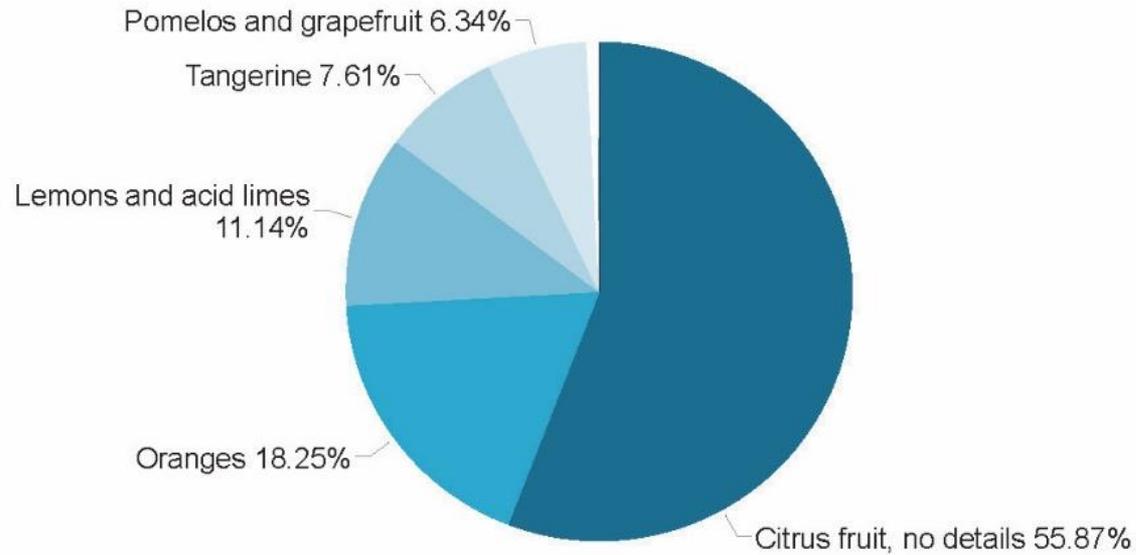
# World: Organic citrus fruit: Global distribution 2018

Citrus Fruit: Organic area by country



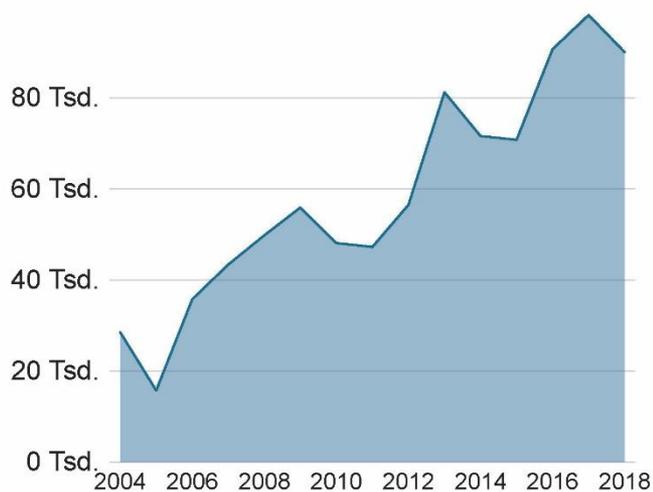
# World: Use of organic citrus fruit area 2018

## Citrus fruit: Use of the organic citrus fruit area

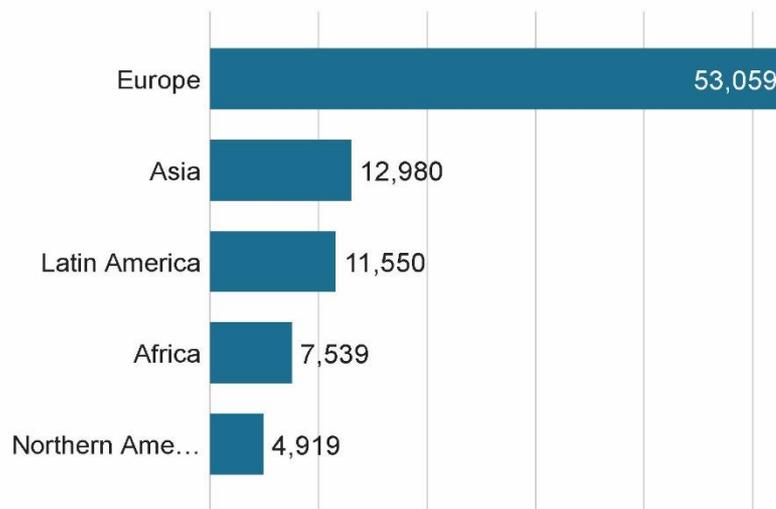


# World: Development of the organic citrus fruit area and area by continent 2018

**The development of the organic citrus fruit area in thousand hectares**

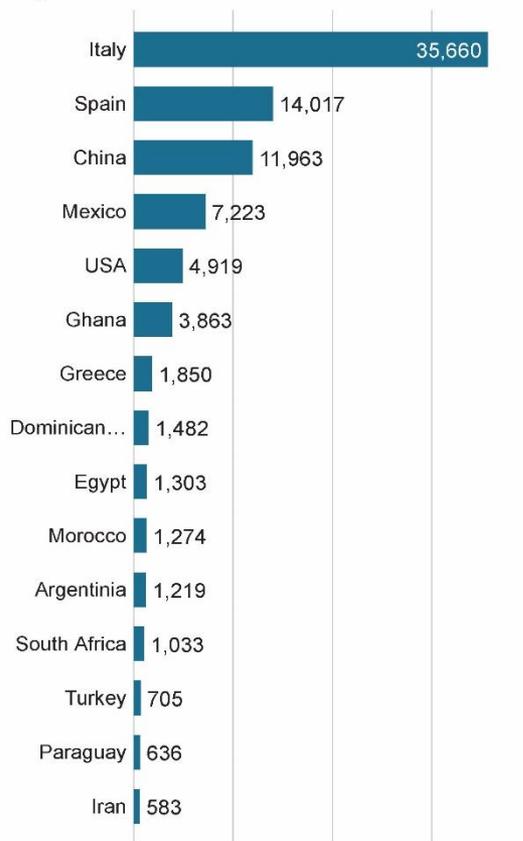


**Organic citrus fruit area by continent in hectares**

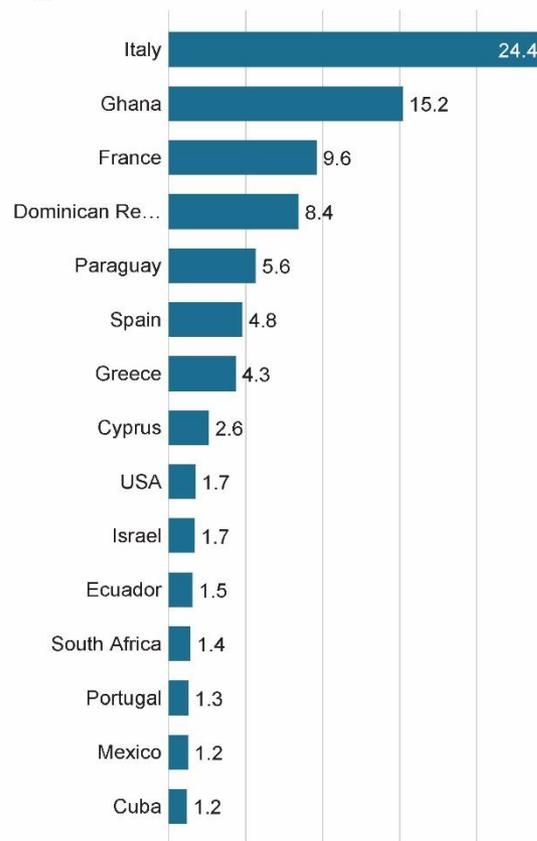


# World: Countries with the largest organic citrus area and highest organic citrus fruit area share 2018

**The countries with the largest organic area in hectares**



**The countries with the highest organic area share in %**



# World: Organic cocoa 2018

- Over 322'000 hectares of cocoa were under organic management in 2018. This constitutes 2.7 percent of the world's harvested cocoa bean area of 11.7 million hectares 2017.
- The world's leading producers are Côte d'Ivoire (2.8 million hectares), Indonesia (1.7 million hectares), Ghana (1.7 million hectares), and Nigeria (0.8 million hectares).
- The largest organic cocoa areas are found in the Dominican Republic (81'399 hectares), the Sierra Leone (61'529 hectares), and Democratic Republic of Congo (51'904 hectares). More than 53 percent of the world's organic cocoa area is in Latin America, and more than 46 percent is in Africa.
- Some countries have when compared with the FAO data on harvested area, very high organic shares. This can probably be attributed to the fact that FAO data might be incomplete.
- The organic cocoa area has grown over seven-fold since 2004. However, part of the increase can be attributed to the continually improving data availability.
- In 2018, over 69'000 hectares less were reported, a decrease of 21.5 percent compared to 2017. The available data on the conversion status indicates that 2.6 percent of the organic cocoa area was in conversion in 2018 (over 8'000 hectares). Thus, a slight increase in the supply of organic cocoa may be expected in the near future.

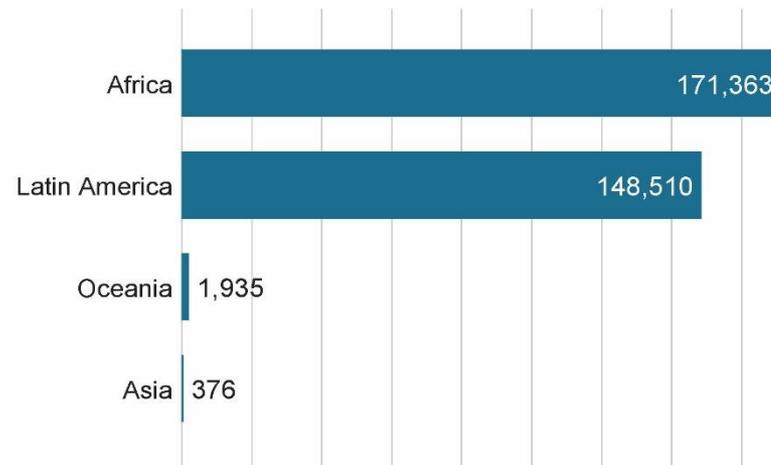


# World: Development of the organic cocoa area and area by continent 2018

**The development of the organic cocoa area in thousand hectares**

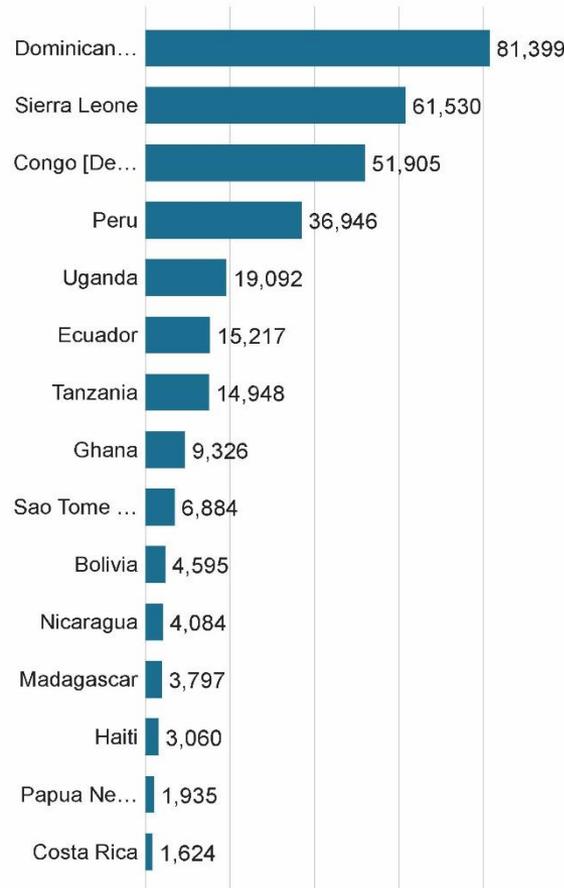


**Organic cocoa area by continent in hectares**

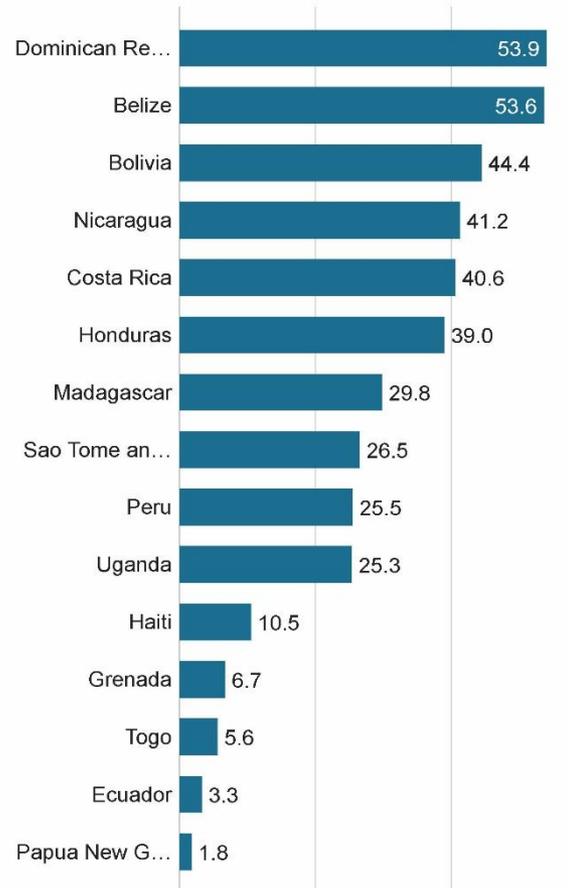


# World: Countries with the largest organic cocoa area and highest organic cocoa area share 2018

**The countries with the largest organic area in hectares**



**The countries with the highest organic cocoa area share in %**



# World: Organic coffee 2018

- More than 728'000 hectares of coffee were grown organically in 2018. This constituted 6.7 percent of the world's harvested coffee area of almost 11 million hectares in 2017, according to FAOSTAT.
- The world's leading producers are Brazil (1.8 million hectares), Indonesia (1.3 million hectares), Côte d'Ivoire (1 million hectares), Colombia (0.9 million hectares), and Ethiopia (0.9 million hectares). Data on organic production was available for all of these countries with the exception of Brazil and Côte d'Ivoire. Slightly more than 46 percent of the world's organic coffee area is in Latin America, and 53 percent is in Africa.
- In organic farming, the largest areas were in Ethiopia (over 161'000 hectares), Peru (121'000 hectares), and Tanzania (almost 82'000 hectares). Bolivia had the highest organic share, with over 47.5 percent organic coffee, followed by Papua New Guinea (44.6 percent), the United Republic of Tanzania (37 percent), and Mexico (almost 36 percent).
- The organic coffee area has increased four-fold since 2004. Compared with 2017, the organic coffee area reported a drop of by 21 percent or almost 159'000 hectares in 2018

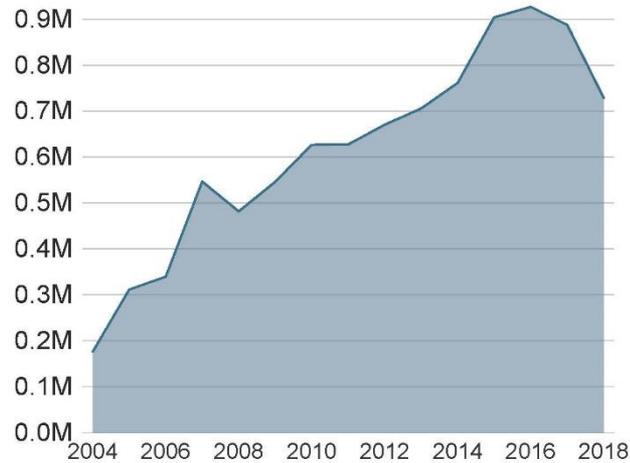
# World: Organic coffee: Global distribution 2018

Coffee: Organic area by country

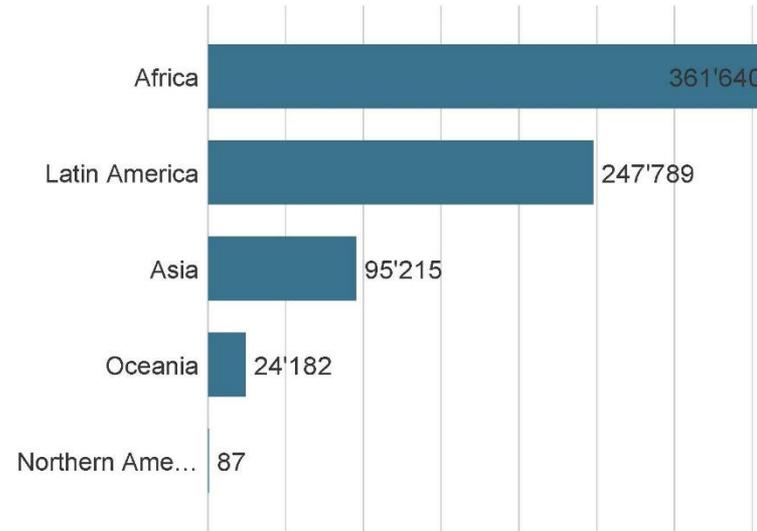


# World: Development of the organic coffee area and area by continent 2018

**The development of the organic coffee area in million hectares**

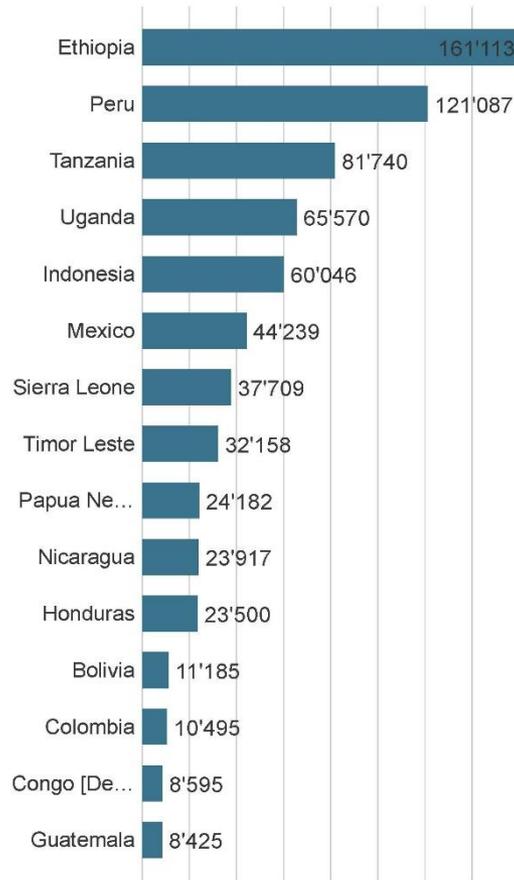


**Organic area by continent in hectares**

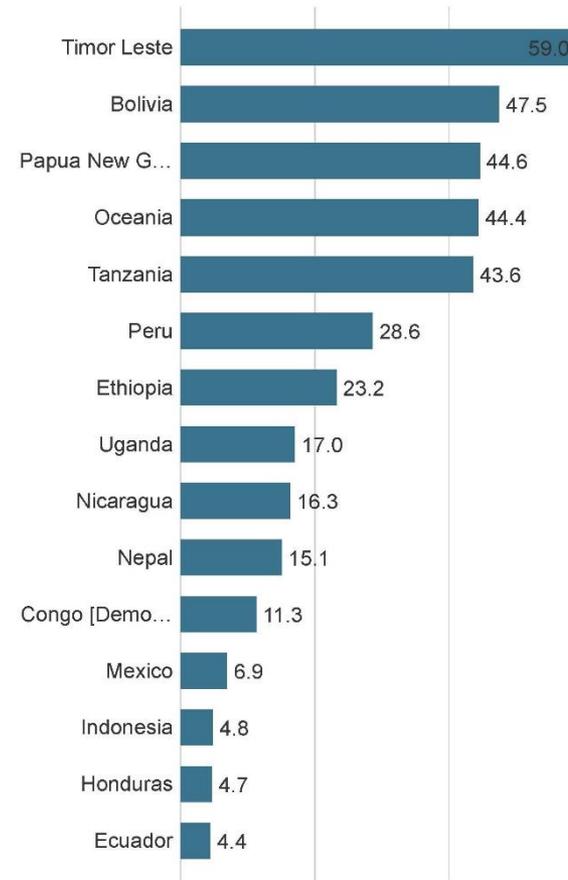


# World: Countries with the largest organic coffee area and highest organic coffee area share 2018

**The countries with the largest organic area in hectares**



**The countries with the highest organic coffee area share in %**



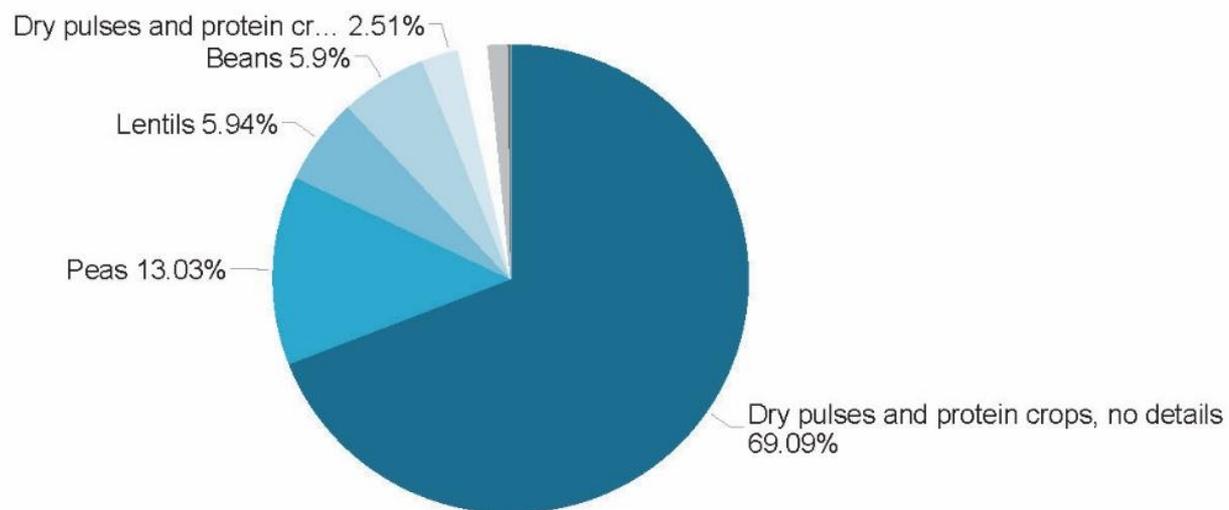
# World: Organic dry pulses 2018

- The total area under organic dry pulses is almost 727'000 hectares, which is 0.8 percent of the total area of dry pulses grown in the world (over 95.1 million hectares in 2017, according to FAOSTAT).
- No current data on the organic area was available from the four out of five most important dry pulse-growing countries in the world: India, Niger, and Myanmar, and Nigeria. India (35 million hectares) was by far the largest grower, representing over 36.7 percent of the global area used to grow dry pulses.
- The countries with the largest organic dry pulses areas are France (over 115'000 hectares), Canada (over 80'000 hectares), China (59'000 hectares), the United Republic of Tanzania (almost 51'000 hectares), Italy (over 50'000 hectares), and Germany (49'000 hectares). Overall, organic shares can be high as dry pulses play an important role in organic farming, particularly in Europe.
- The dry pulses area has increased nine-fold from 79'000 to almost 727'000 hectares since 2004. However, some of the increase can be attributed to the continually improving availability of crop data.
- In 2018, the dry pulses area grew by more than 65'000 hectares, or by more than 9 percent compared to 2017. A breakdown by crop is not available for many countries; for instance, Eurostat the statistical office of the European Union publishes only one figure for “dry pulses,” without breaking that figure down by crop.
- The data available for a breakdown of the total fully converted and in conversion area shows that nearly 18 percent (131'000 hectares is in conversion, and will be fully converted in the next few years. This has implications for the availability of organic dry pulses in the near future.



# World: Use of organic dry pulses area 2018

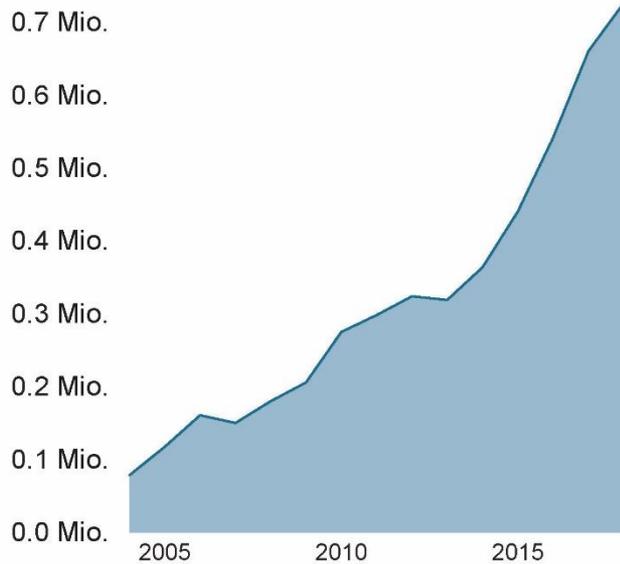
## Dry Pulses: Use of the organic dry pulses area



# World: Development of the organic dry pulses area and area by continent 2018

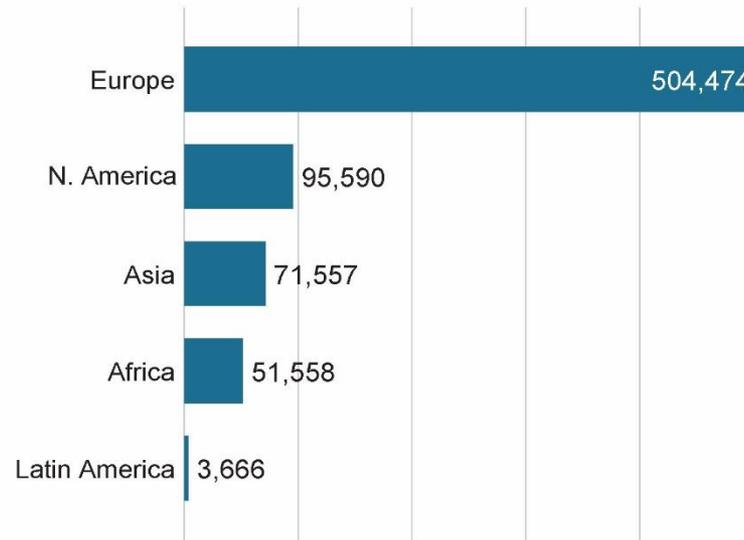
## The development of the dry pulses area

in million hectares



## Organic dry pulses area by continent

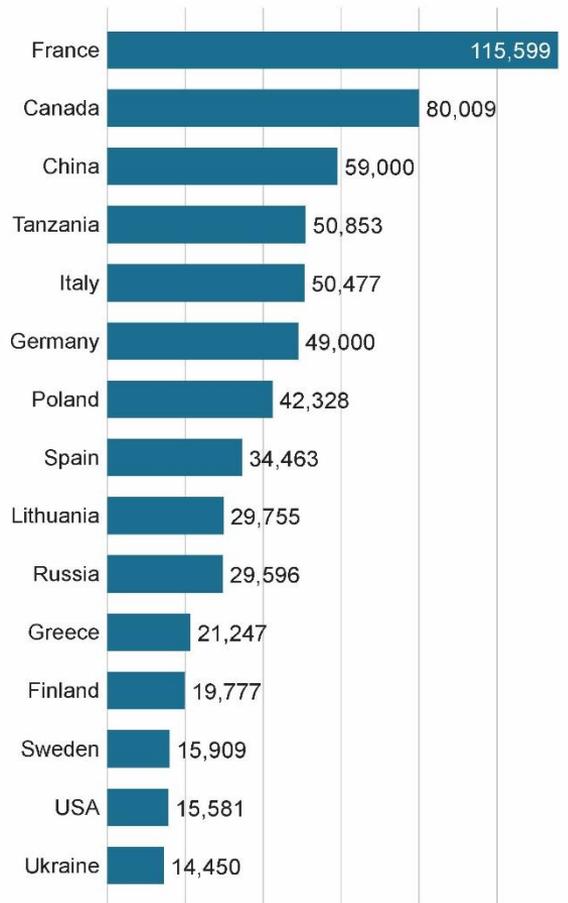
in hectares



# World: Countries with the largest dry pulses area and highest organic dry pulses area share 2018

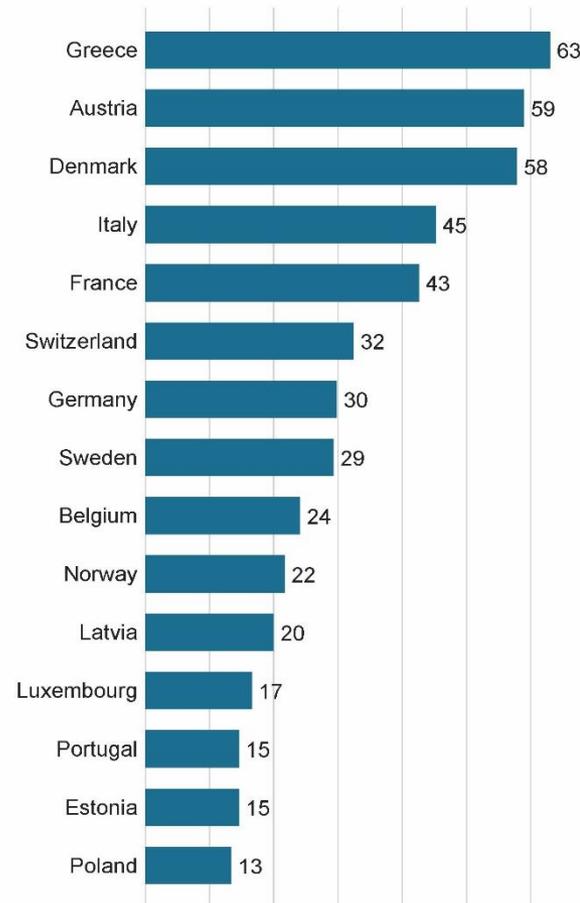
**The countries with the largest organic area**

in hectares



**The countries with the highest organic area share**

in %

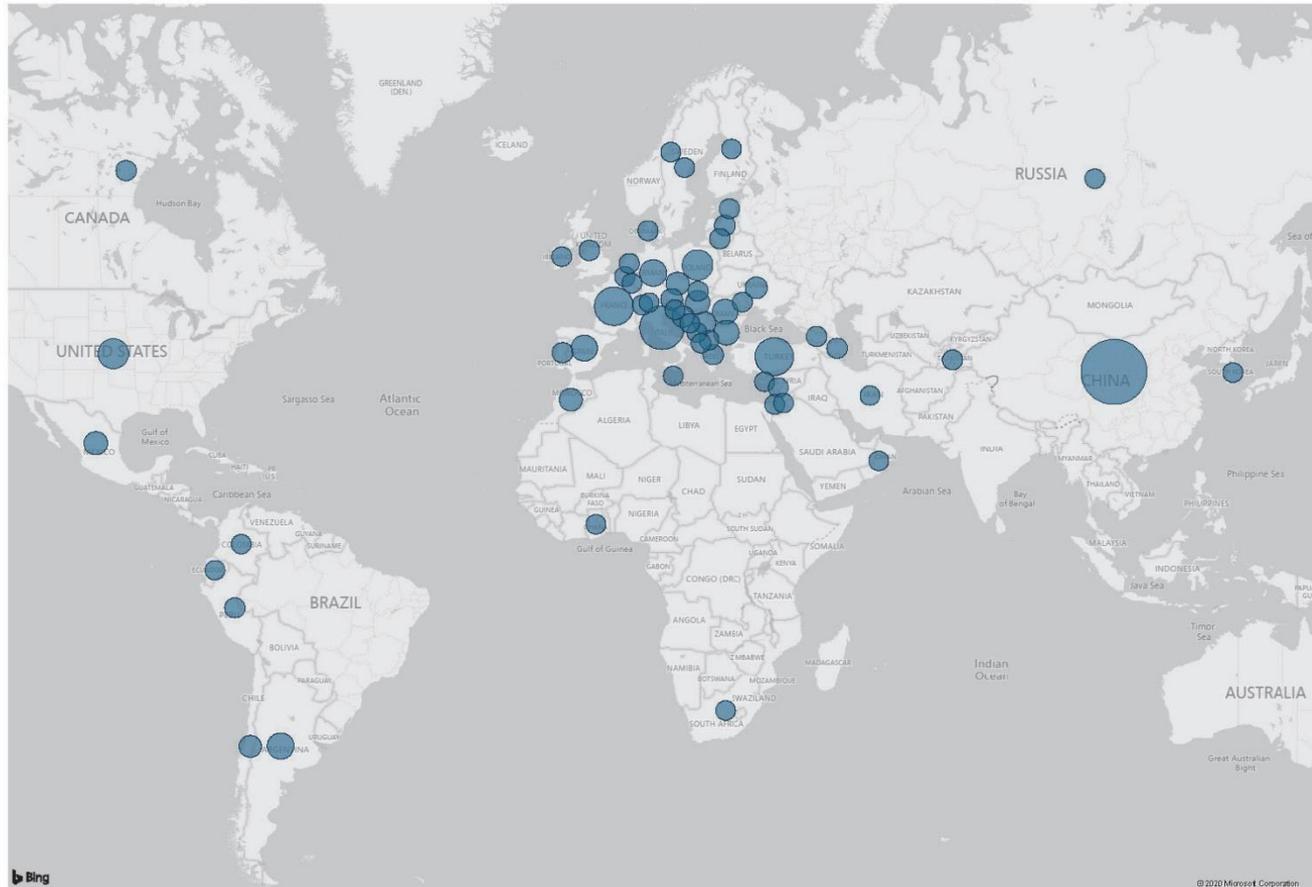


# World: Organic temperate fruit 2018

- The total area under organic temperate fruit production recorded here (over 224'000 hectares), is 1.9 percent of the total area of temperate fruit grown in the world (11.8 million hectares in 2017, according to FAOSTAT).
- Of the seven most important temperate fruit growing countries in the world (China, Turkey, India, Russia, the United States, Poland, and Italy), six countries (China, Turkey, Russia, United States, Poland, and Italy) provided data on the area of organic temperate fruits in 2018. It can, therefore, be assumed that the organic temperate fruit area is higher.
- The countries with the largest organic temperate fruit areas are China (over 51'000 hectares), Italy (over 27'000 hectares), France (21'400 hectares), Turkey (more than 20'000 hectares), Poland (12'000 hectares), and the United States (almost 12'000 hectares).
- Since 2004, when data on land use and crops were collected for the first time, the temperate fruit area has more than doubled. However, some of the increase can be attributed to the continually improving crop data availability. In 2018, a slight increase of 17 hectares occurred.
- The key temperate fruits are apples, with almost 39 percent of the temperate fruit area, followed by apricots, pears, plums, cherries, and peaches.
- The available data on the conversion status indicates that nearly 30 percent (over 60'000 hectares) of the total temperate fruit area is in conversion. Thus, a considerable increase in the supply of organic temperate fruit in the near future.

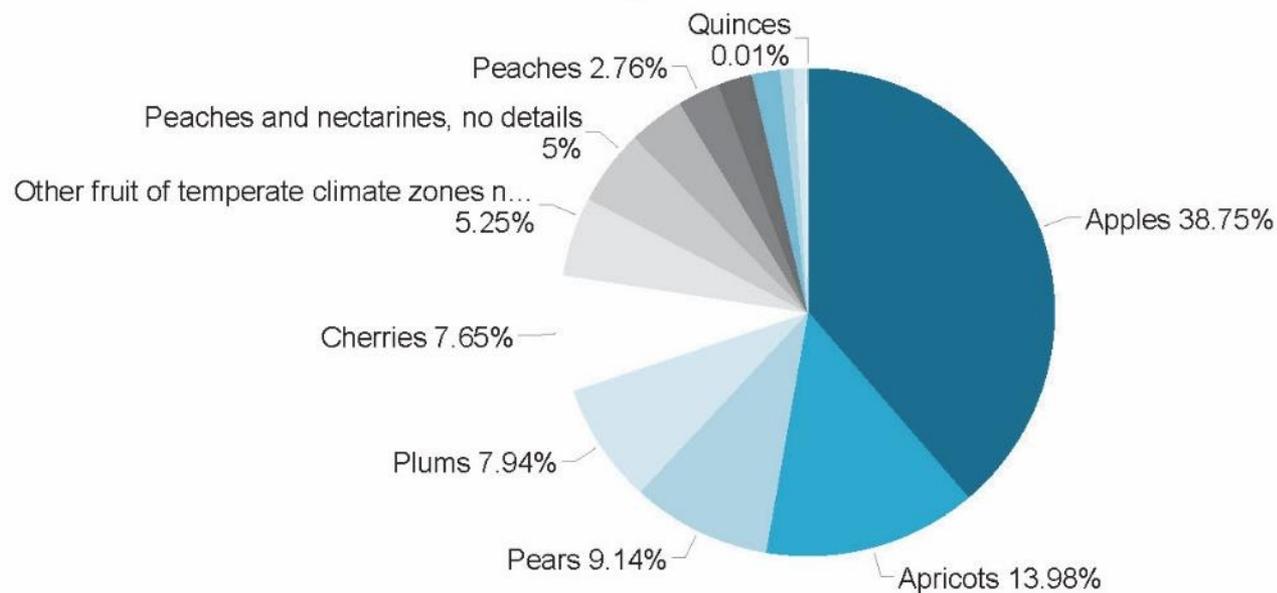
# World: Organic temperate fruit: Global distribution 2018

Temperate Fruit: Organic area by country



# World: Use of the organic temperate fruit area 2018

## Temperate fruit: use of the organic temperate fruit area



# World: Development of the organic temperate fruit area and area by continent 2018

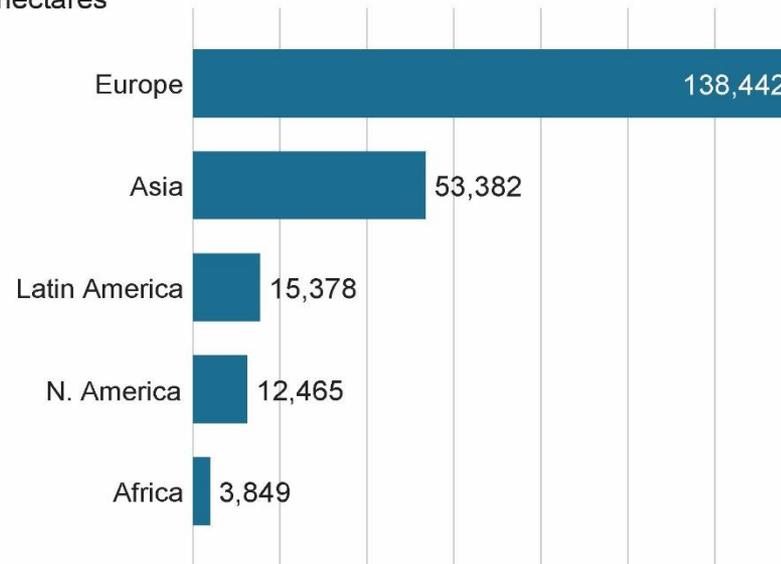
## The development of the temperate fruit area

in thousand hectares



## Organic temperate fruit area by continent

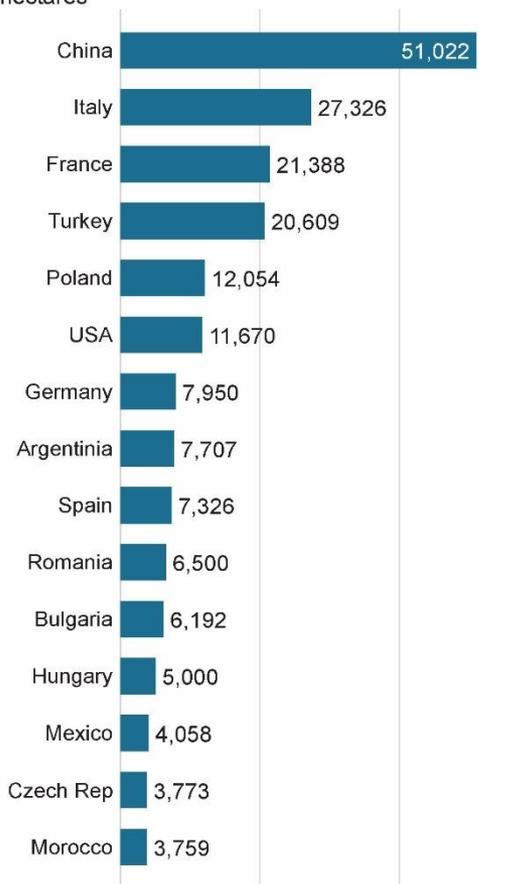
in hectares



# World: Countries with the largest organic temperate fruit area and highest organic temperate fruit area share 2018

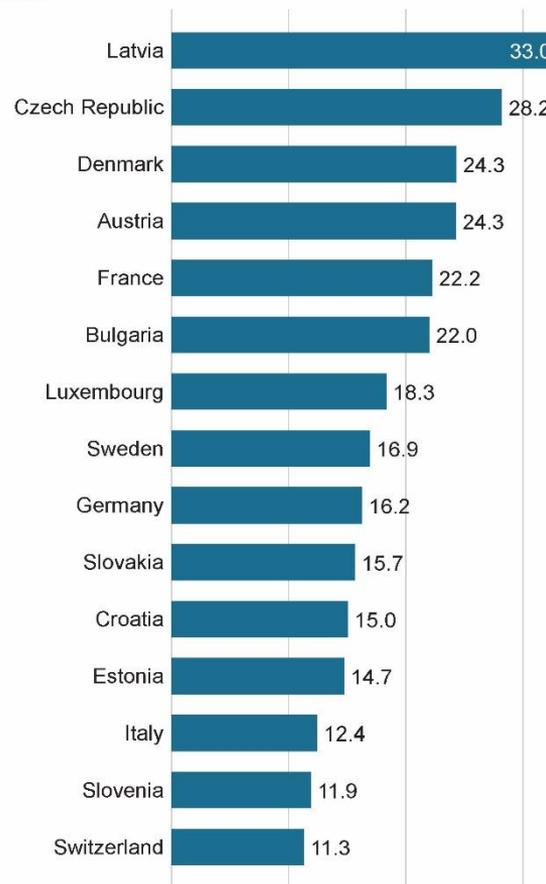
**The countries with the largest organic area**

in hectares



**The countries with the highest organic area share**

in %

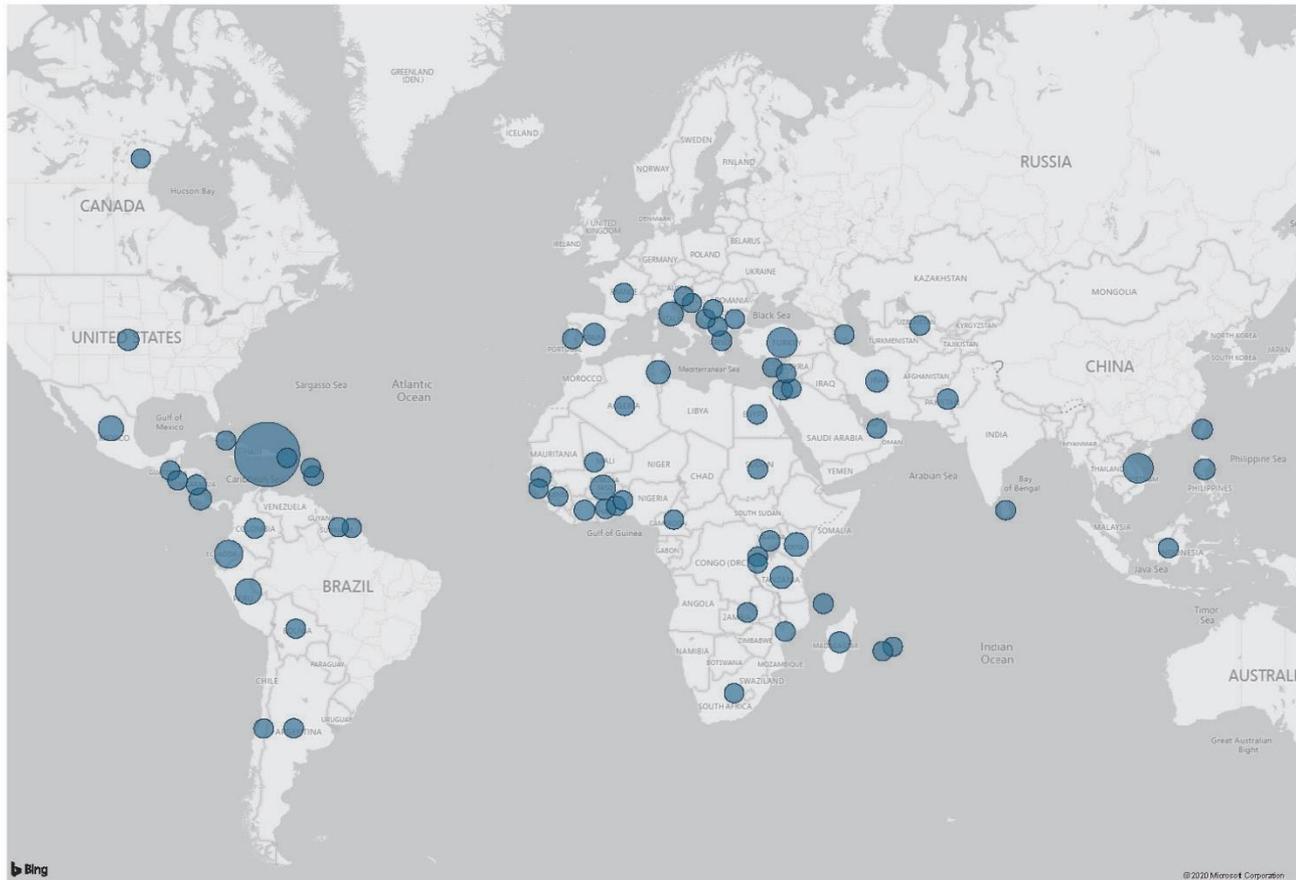


# World: Tropical and subtropical fruits 2018

- The total area under organic tropical and subtropical fruit production recorded here (over 274'000 hectares) is 1.1 percent of the total area of tropical and subtropical fruit grown in the world (25.9 million hectares in 2017, according to FAOSTAT data).
- Of the five most important tropical and subtropical fruit growing countries in the world (India, China, Philippines, Democratic Republic of the Congo, and Brazil, all with more than one million hectares), only the Philippines provided data on the area used for growing organic tropical and subtropical fruit in 2018.
- The largest organic growers for which data on the organic area was available were Dominican Republic (over 83'000 hectares), Fiji (over 20'000 hectares), Turkey (almost 20'000 hectares), and Viet Nam (more than 19'000 hectares). Some of these countries also report very high organic shares of tropical and subtropical fruit, more than the ten percent of their countries' total area for these crops: In the case of the Dominican Republic, bananas; and in the case of Fiji, noni fruit.
- The largest organic shares of tropical and subtropical fruit area are in Dominican Republic (76.8 percent), Fiji (66.5 percent), Turkey (29.9 percent), and Slovenia (29.5 percent). By area, the key tropical and subtropical fruits are bananas, noni, mangos, and avocados.
- Since 2004, when data on land use and crops was collected for the first time, the tropical fruit area has increased more than six-fold. Some of the increase can be attributed to the continually improving data availability. In 2018, a decrease of 38 percent compared to 2017 was reported.
- The available data on the conversion status indicates that nearly 7 percent of the total tropical and subtropical fruit area is in conversion. This suggests that a slight increase in supply in the near future may be expected.

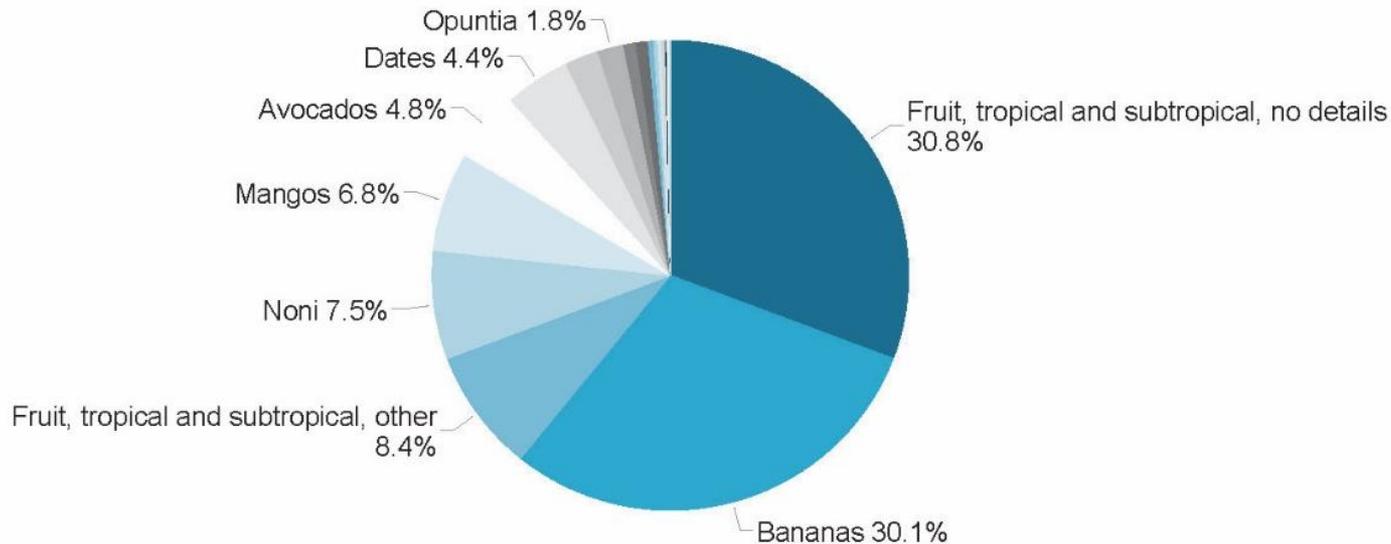
# World: Organic tropical and subtropical fruit: Global distribution 2018

Tropical and subtropical fruit: Organic area by country



# World: Distribution of global organic tropical and subtropical area by crop 2018

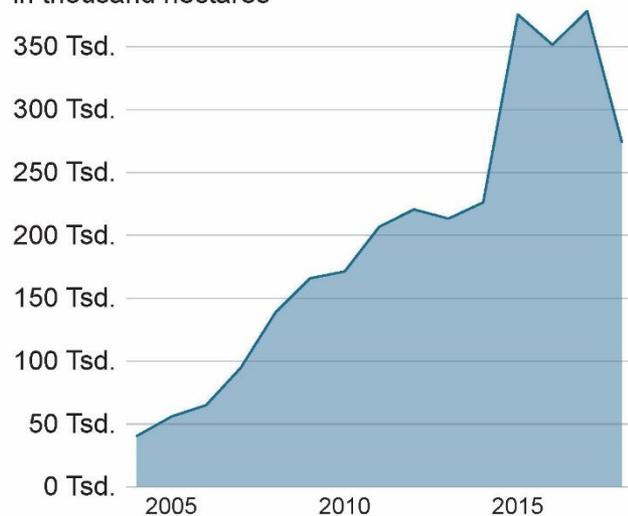
## Tropical and subtropical fruit: Distribution of global organic area by crop



# World: Development of the organic tropical and subtropical fruit area and area by continent 2018

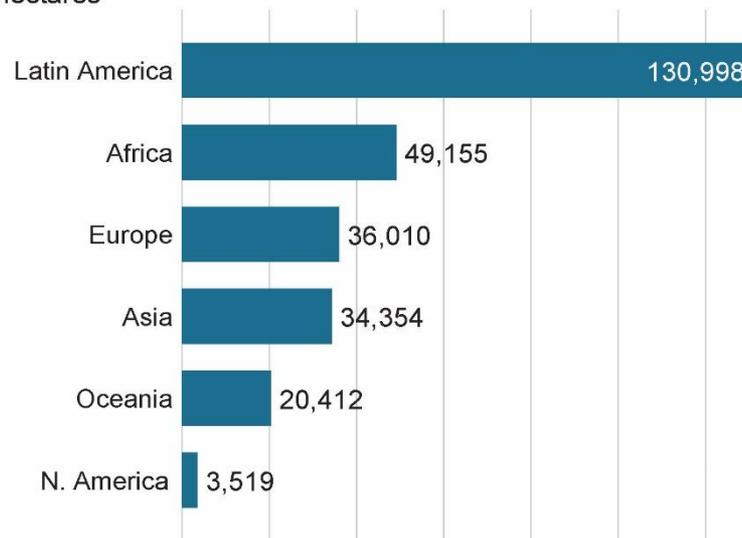
## The development of the tropical and subtropical fruit area

in thousand hectares



## Organic tropical and subtropical fruit area by continent

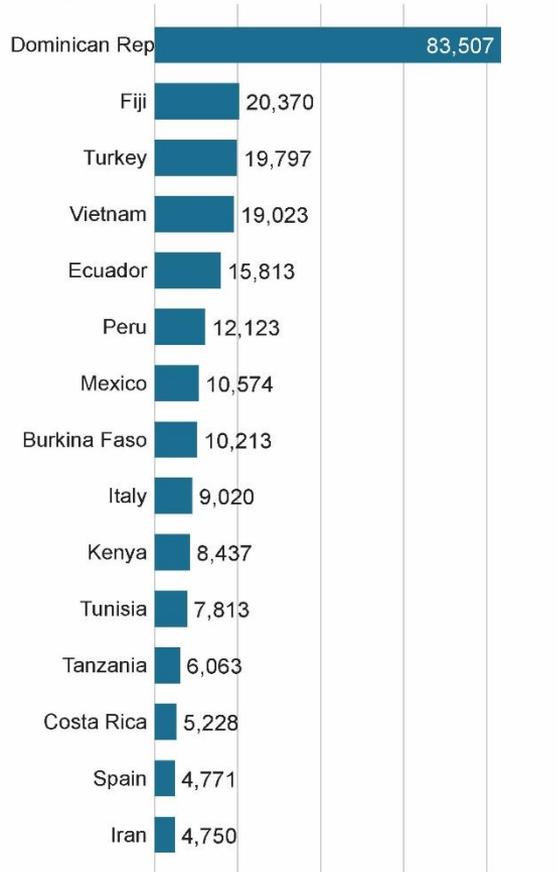
in hectares



# World: Countries with the largest organic tropical and subtropical area and highest organic area share 2018

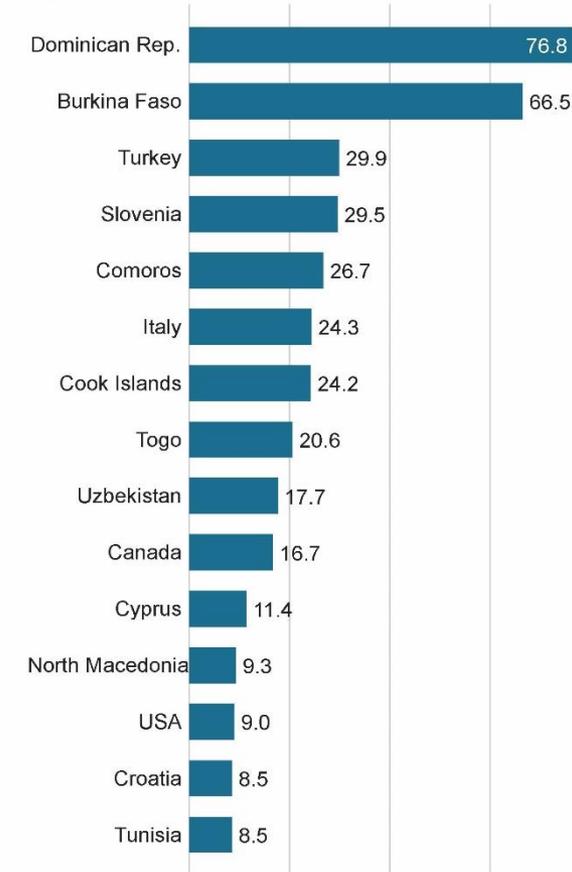
**The countries with the largest organic area**

in hectares



**The countries with the highest organic area share**

in %

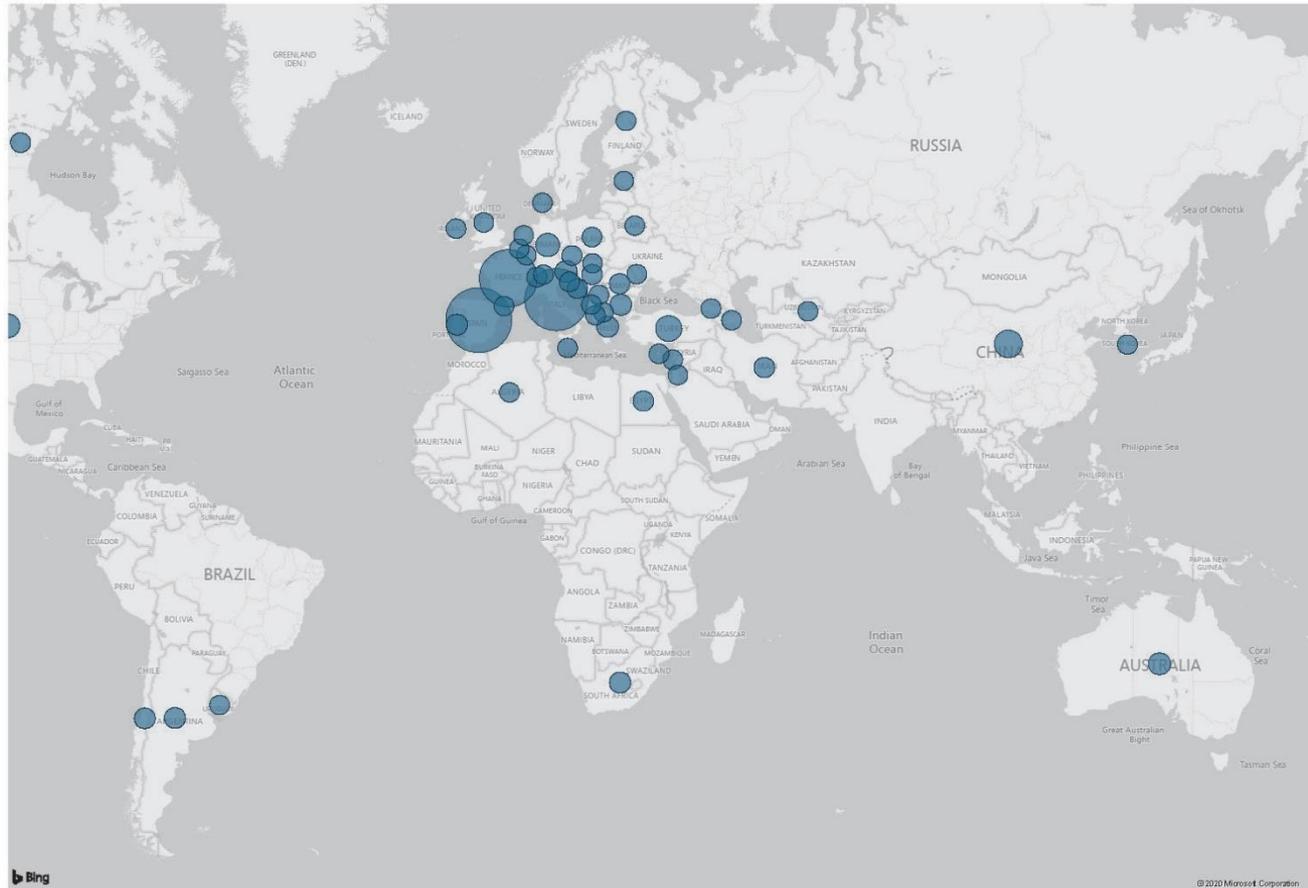


# World: Organic grapes area 2018

- More than 422'000 hectares of organic grapes are grown, constituting 6.1 percent of the world's grape-growing area (6.9 million hectares in 2017, according to FAOSTAT). In Europe, over 365'000 hectares (9.5 percent of the harvested grape area) are organic.
- Not all of the grape area listed in the table is used for wine. The production of table grapes and raisins is important in many countries, such as Turkey. All of the five most important grape-growing countries in the world (Spain, China, France, Italy, and Turkey) provided data on the area under organic grape production in 2018.
- The countries with the largest organic grape areas are Spain and Italy, each with more than 100'000 hectares of organic grapes, followed by France with over 94'000 hectares. Some of the highest organic shares of the total grape area are also found in these countries. Almost 90 percent of the world's organic grape area is in Europe, 5 percent in Asia and the rest is distributed almost equally among Africa, North America, Oceania, and Latin America.
- Since 2004, when data on land use and crops were collected for the first time, the organic grape area has increased almost five-fold. However, some of the increase can be attributed to the continually improving availability of crop data.
- The available data indicates that a large part of the organic grape area (at least 24 percent) is in conversion. Thus, a considerable increase in the supply of organic grapes may be expected, particularly from Spain, Italy, and France.

# World: Organic grapes: Global distribution 2018

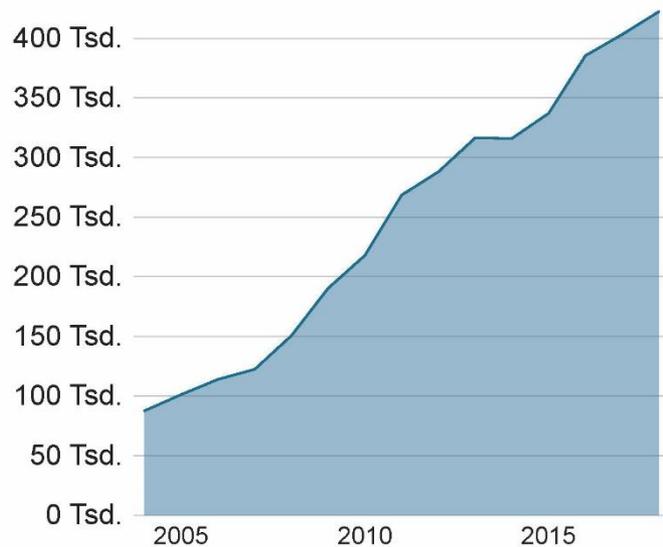
Grapes: Organic area by country



# World: Development of the organic grapes area and area by continent 2018

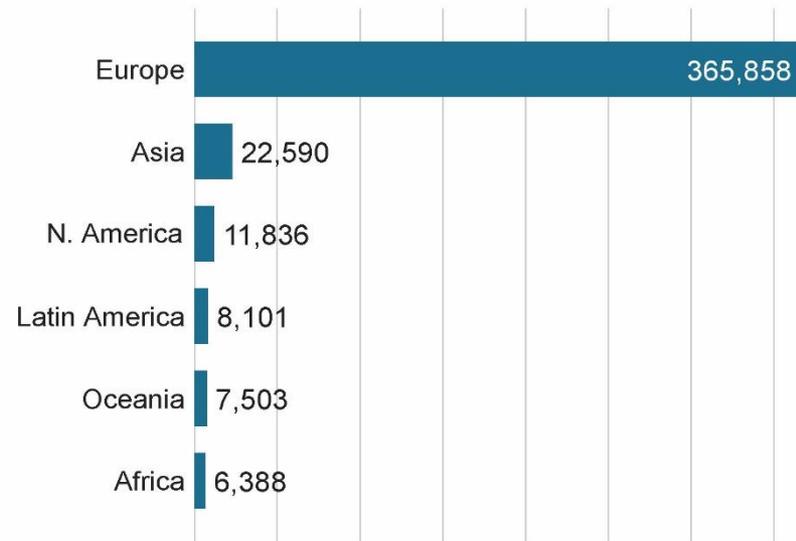
## The development of the organic grapes area

in thousand hectares



## Organic grapes area by continent

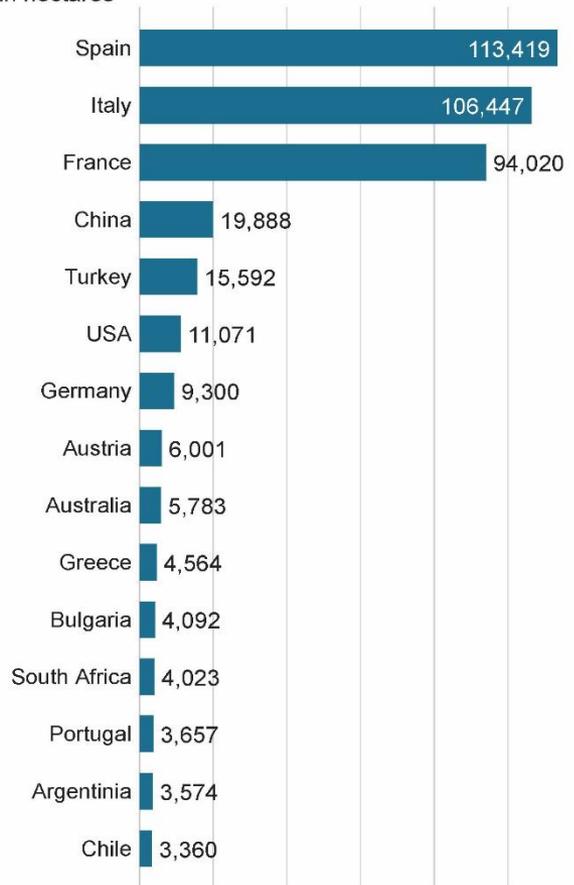
in hectares



# World: Countries with the largest organic grapes area and highest organic grapes area share 2018

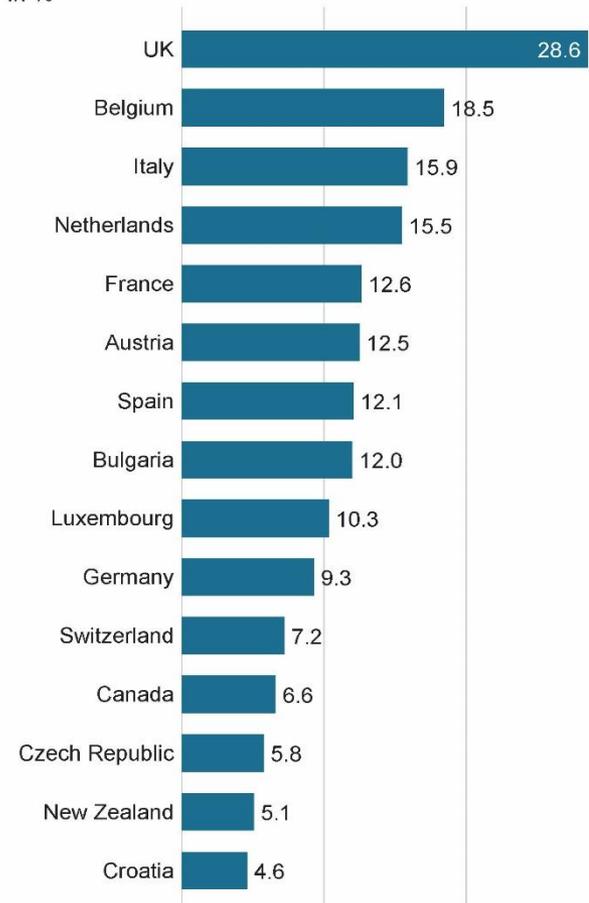
**The countries with the largest organic area**

in hectares



**The countries with the highest organic area share**

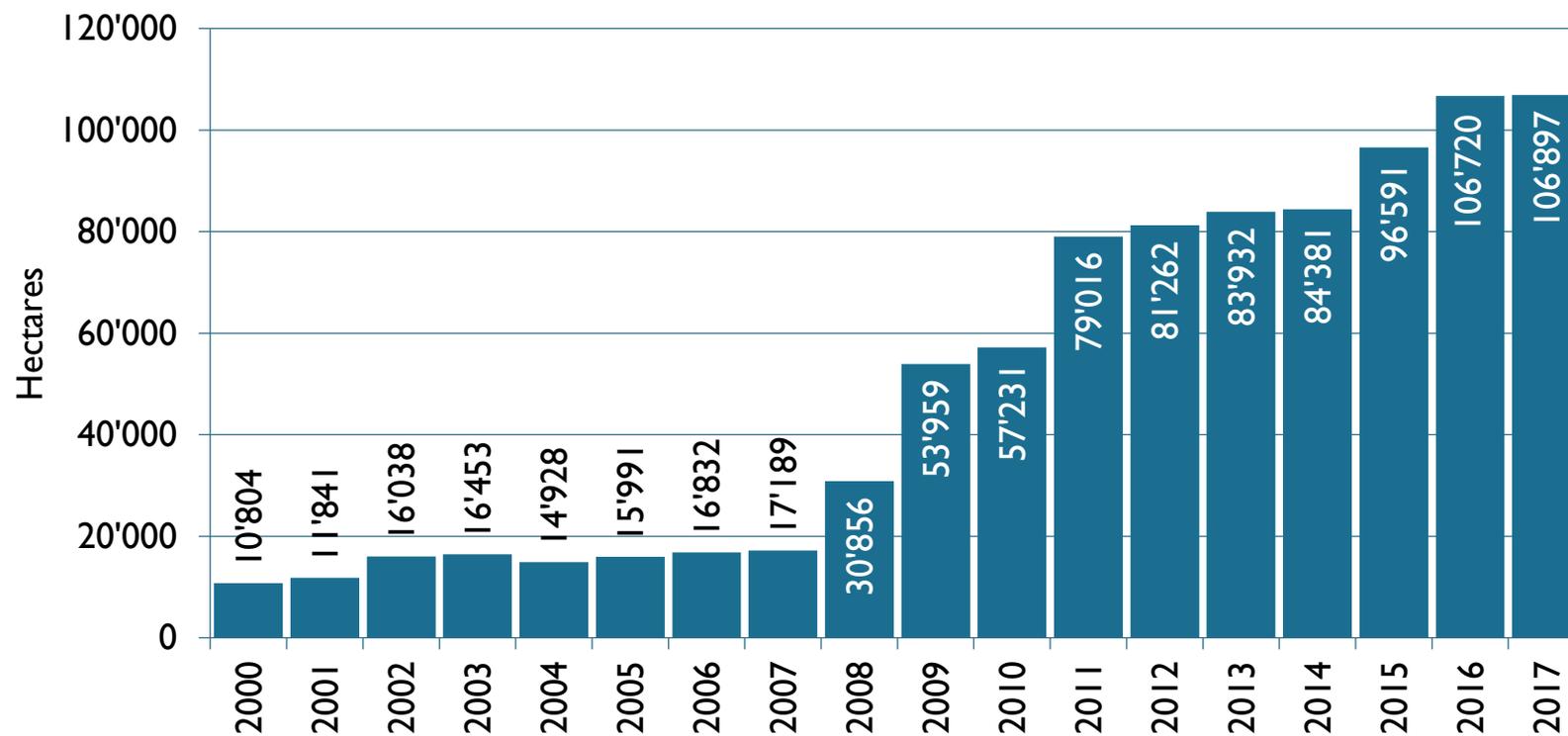
in %



# Spain: Development of the organic grape area 2000-2017 (including in-conversion areas)

## Spain: Development of the organic grape area 2000-2017 (including in-conversion areas)

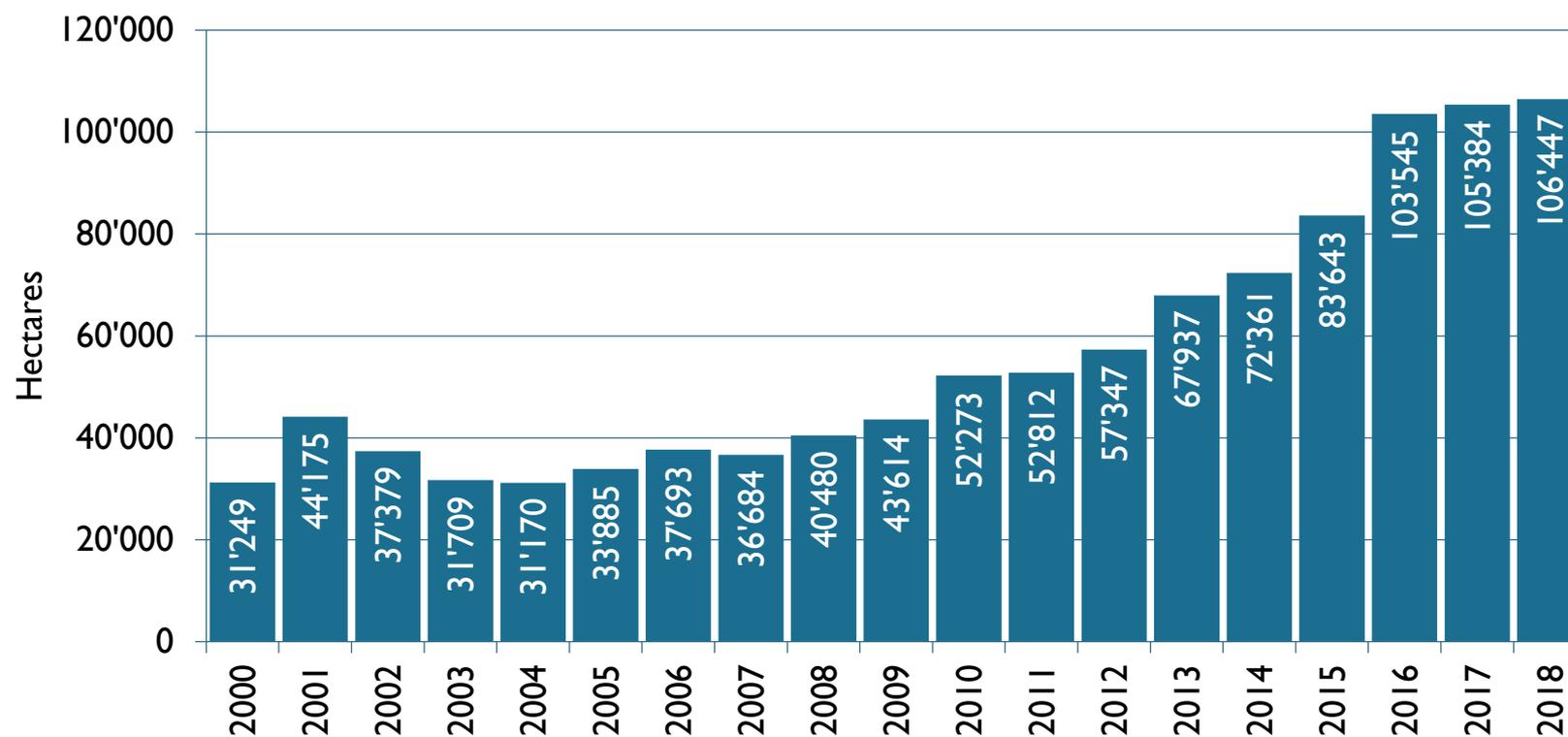
Source: MARA 1999-2019



# Italy: Development of the organic grape area 2000-2018 (including in-conversion areas)

## Italy: Development of the organic grape area 2000-2018 (including in-conversion areas)

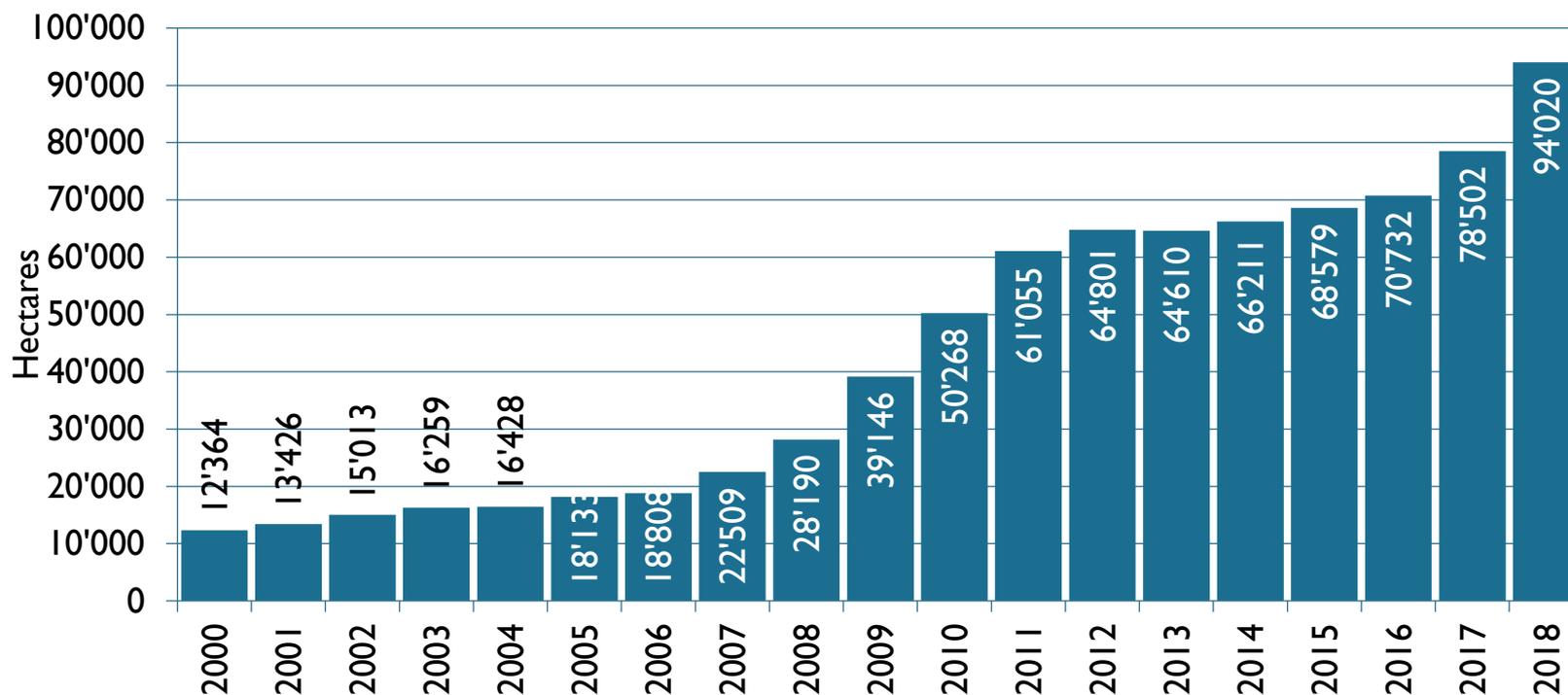
Source: SINAB 2000-2020



# France: Development of the organic grape area 2000-2018 (including in-conversion areas)

## France: Development of the organic grape area 2000-2018 (including in-conversion areas)

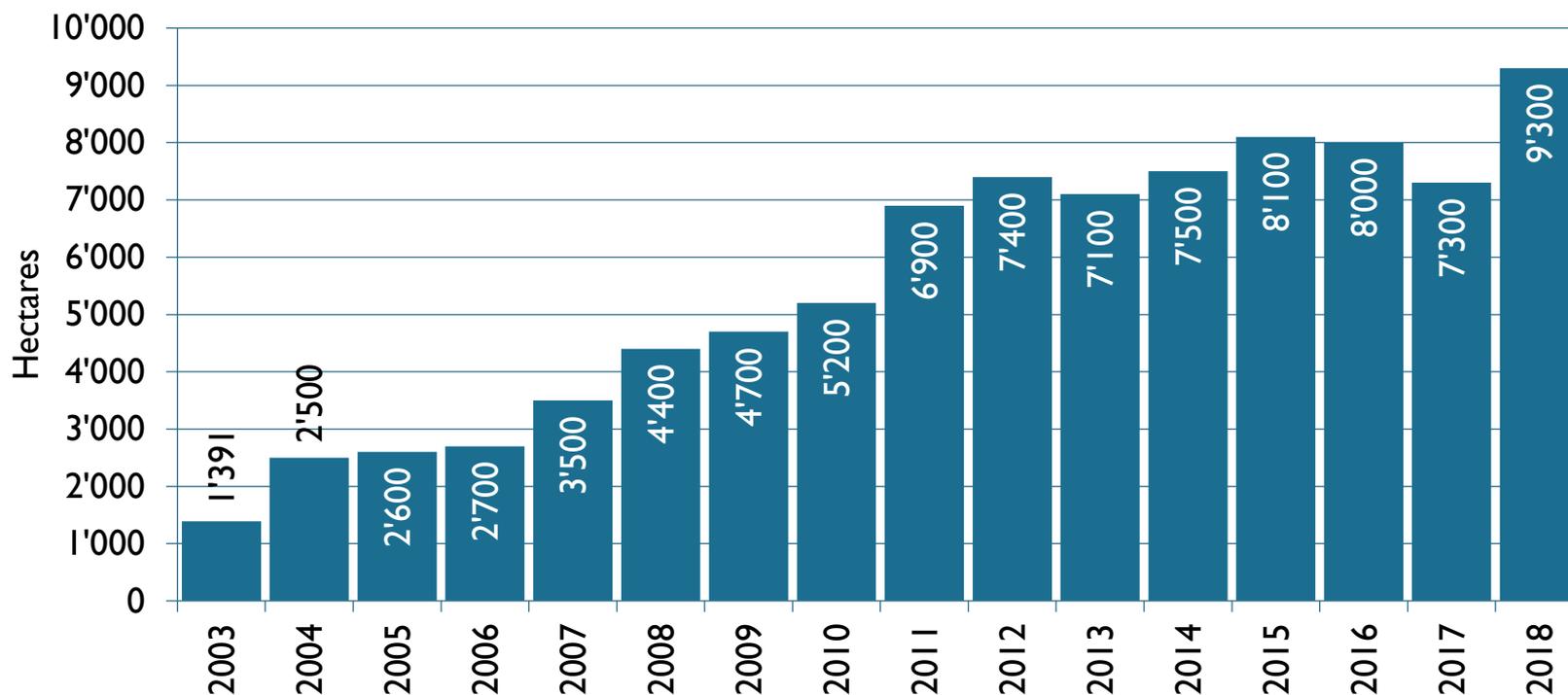
Source: Agence Bio 2000-2020



# Germany: Development of the organic grape area 2003-2018 (including in-conversion areas)

## Germany: Development of the organic grape area 2003-2018 (including in-conversion areas)

Source: AMI 2000-2020



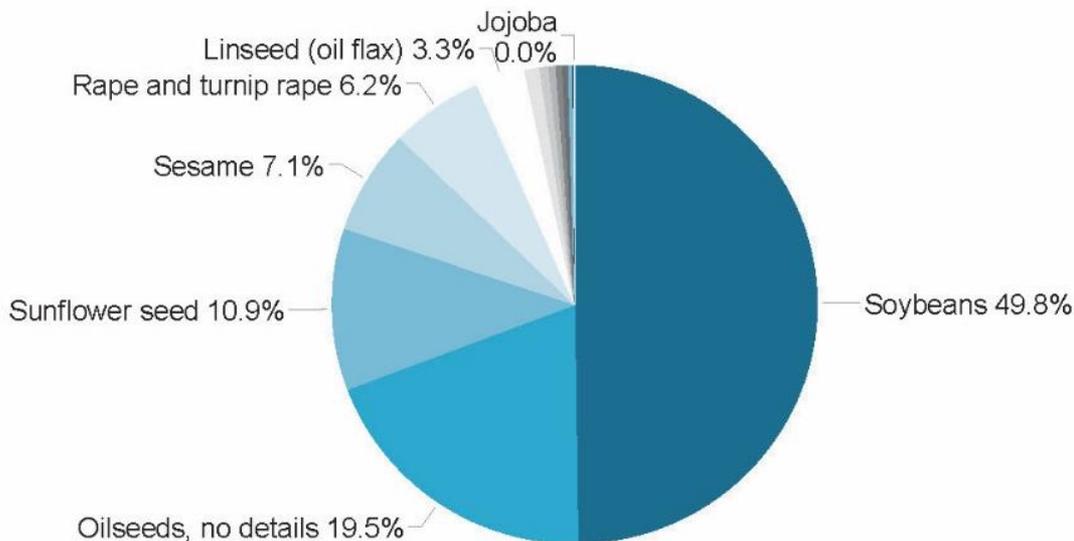
# World: Organic oilseeds 2017

- Almost 1.2 million hectares were used for growing organic oilseeds in 2017. This is 0.6 percent of the world's total harvested oilseed area (almost 230 million hectares according to FAOSTAT).
- The main countries in which oilseeds are grown are the United States, Brazil, India, Argentina, and China (each with more than 20 million hectares). Data on organic production was available for all of these countries but Brazil. The countries with the largest organic oilseed area are China, India, the Russian Federation, Sudan, Romania, and the United States.
- The highest organic shares are in Peru (23.3 percent, mainly sesame) and Austria (18.7 percent, mostly soybeans).
- Since 2004, when data on land use and crops was collected for the first time, the oilseed area (2004: almost 144'000 hectares) has increased more than eight-fold. However, some of the increase can be attributed to the continually improving availability of crop data. In 2017, the organic oilseed area reported a drop of nearly 13 percent (over 172'500 hectares).
- Over third of the organic oilseed area is for soybeans, and another twenty percent is for sunflower seeds and sesame.
- The data available for a breakdown of the total fully converted and in conversion area shows that at least 17 percent is in conversion and will be fully converted in the next few years. This has implications for the availability of organic oilseeds in the near future.



# World: Distribution of the global organic oilseeds area by oilseed type 2018

**Oilseeds: Distribution of global organic oilseeds area by crop**



# World: Development of the organic oilseeds area and area by continent 2018

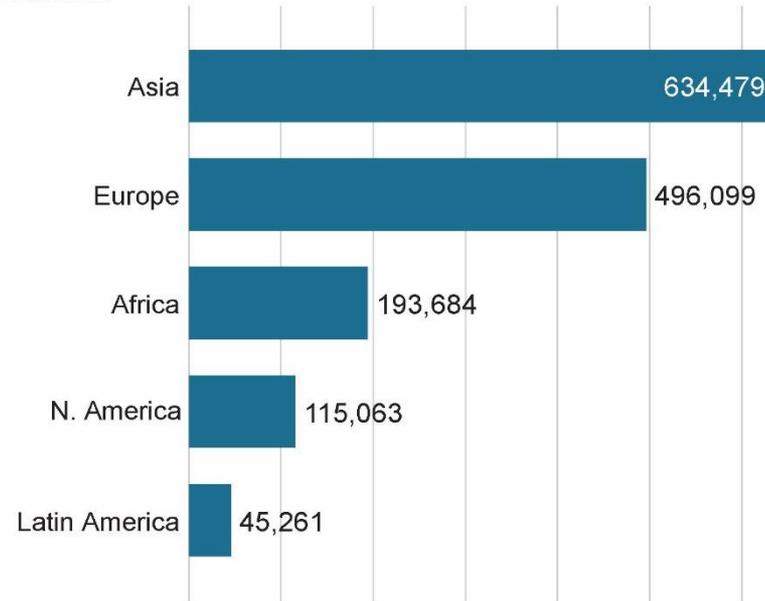
## The development of the oilseeds area

in million hectares



## Oilseeds area by continent

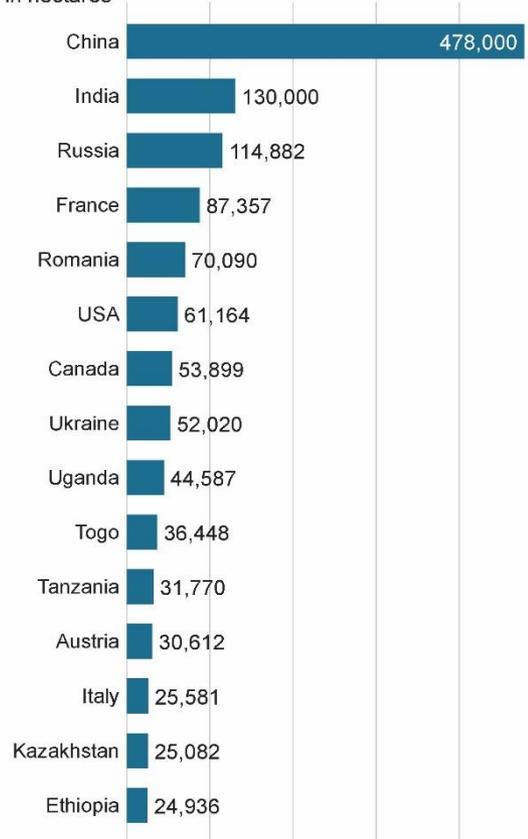
in hectares



# World: Countries with the largest organic oilseeds area and highest organic oilseeds area share 2018

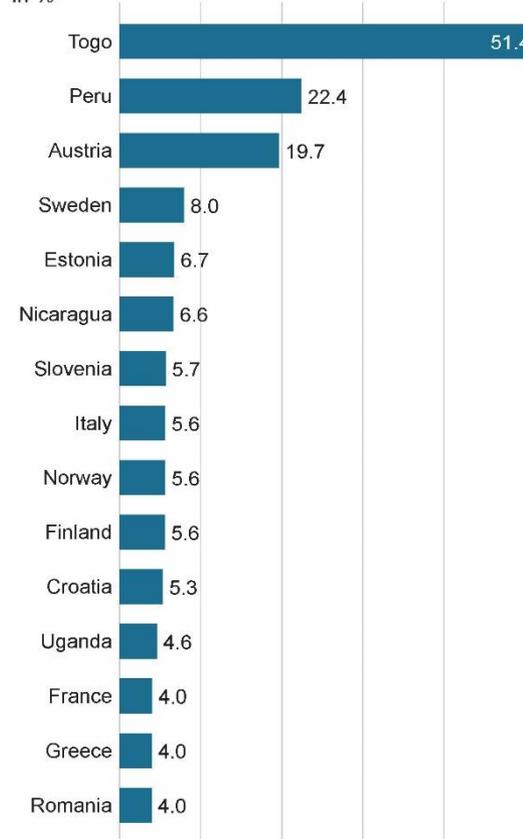
**The countries with the largest organic area**

in hectares



**The countries with the highest organic area share**

in %



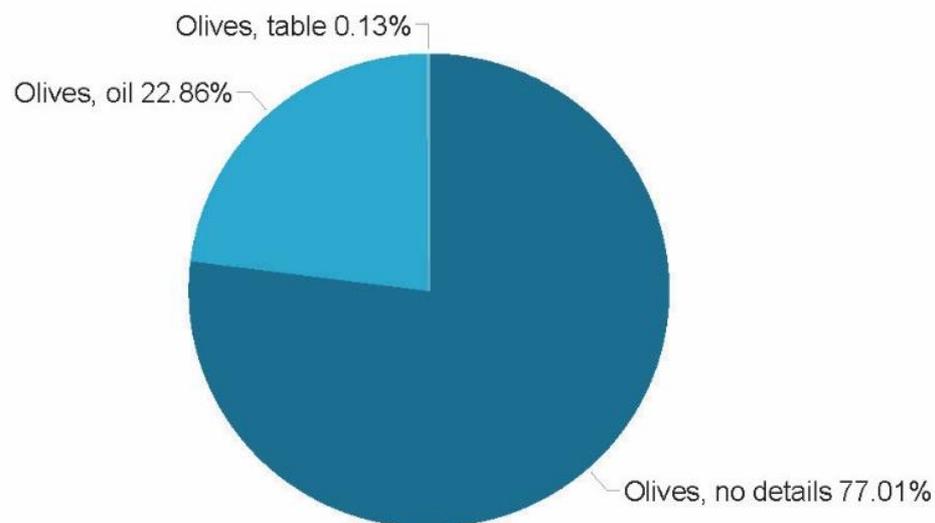
# World: Organic olives 2018

- Over 872'000 hectares of olives were reported to be under organic production in 2018. This represents 8.2 percent of the world's total harvested olive area (10.8 million hectares according to FAOSTAT).
- The main countries in which olives are grown are around the Mediterranean. Spain is by far the largest grower with 2.6 million hectares, followed by Tunisia (1.6 million hectares) and Italy (1.2 million hectares). Greece and Morocco are also important producers. For all these countries, data for the organic area was available.
- Tunisia has the largest area of organic olives (more than 254'000 hectares), followed by Italy (almost 236'000 hectares), and Spain (more than 195'000 hectares).
- Almost 70 percent of the world's organic olive area is in Europe, followed by northern Africa with nearly 30 percent of the world's organic olive area. In Italy, the percentage of area under organic production is relatively high (over 18 percent).
- In Tunisia, 15.7 percent of the olive area is organic, and in Spain almost 8 percent. France has the highest organic share with 30.0 percent of the olive area being organic.
- Since 2004, when data on land use and crops were collected for the first time, the olive area almost trebled. The available data indicates that a large part of the total olive area, 15 percent, is in conversion. Thus, an increase in the supply of organic olives may be expected.



# World: Use of the organic olive area 2018

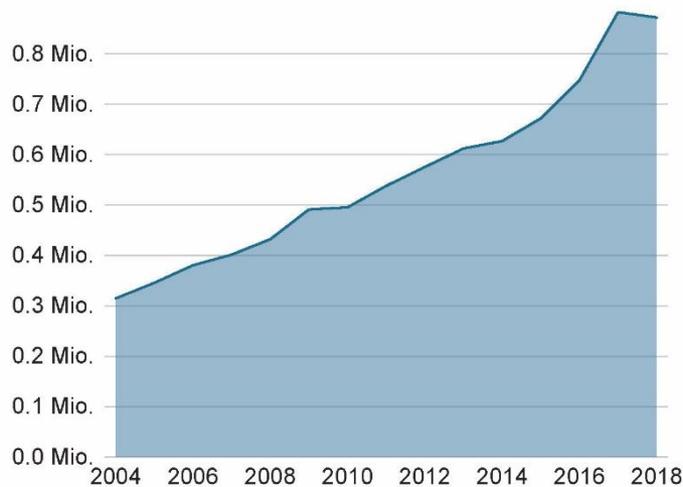
## Olives: Use of the organic olive area



# World: Development of the organic olives area and area by continent 2018

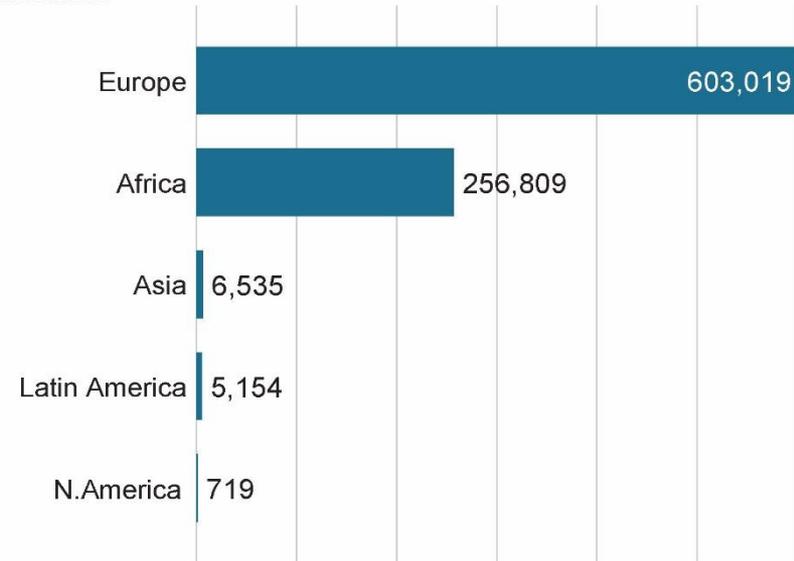
## The development of the organic olive area

in million hectares



## Organic area by continent

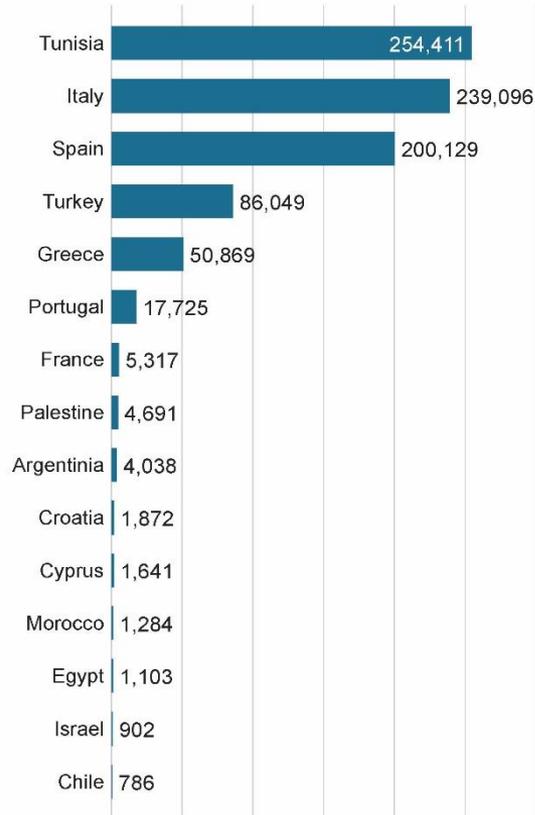
in hectares



# World: Countries with the largest organic olives area and highest organic olives area share 2018

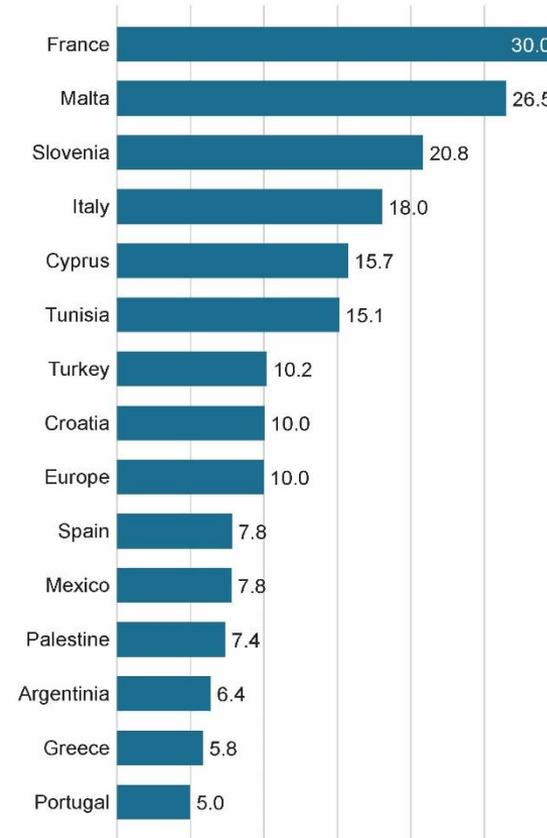
**The countries with the largest organic area**

in hectares



**The countries with the highest organic area share**

in %

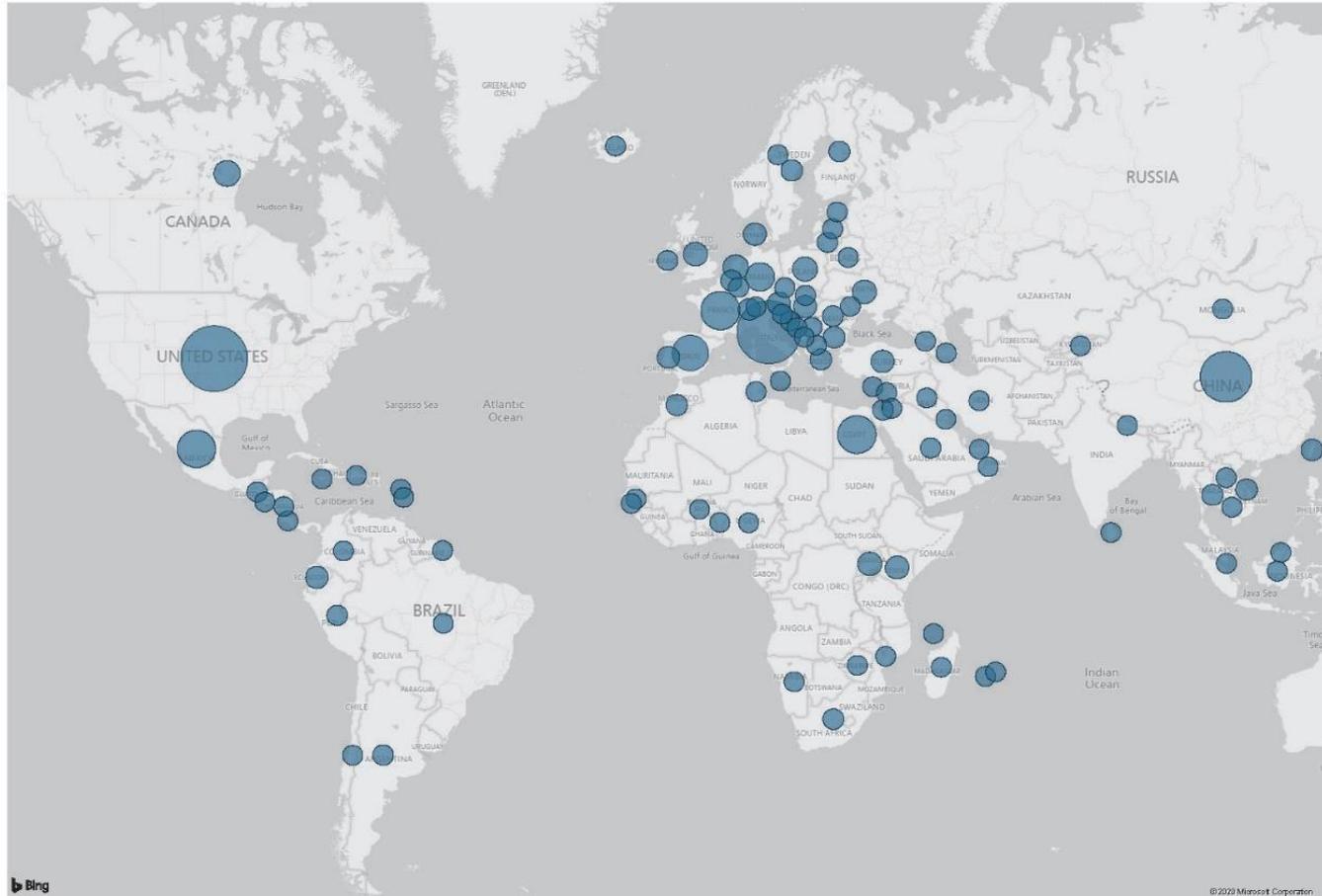


# World: Organic vegetables 2018

- The total area under organic vegetable production in 2018 (over 387'000 hectares) was 0.6 percent of the total area of vegetables grown in the world (63 million hectares in 2017, according to FAOSTAT).
- Of the four most important vegetable-growing countries in the world (China, India, Nigeria, and Viet Nam), data on the organic area was only available for China, Nigeria, and Viet Nam. The countries with the largest organic vegetable areas are the United States, Italy, China, France, Egypt, and Mexico.
- The highest organic shares of the total vegetable areas are in Luxembourg, Denmark, Iceland, Austria, Sweden, and Switzerland. Furthermore, Sweden and Italy reported high organic shares of the total vegetable area.
- Since 2004, when data on organic land use and crops was collected for the first time, the vegetable area increased by almost four-fold, from 105'000 hectares to the current 387'000 hectares.
- A large part (nearly 80'000 hectares) is for fruit vegetables, followed by leafy and stalked vegetables (salads). For most countries, however, no crop details for the vegetable area are available.
- The available data on the breakdown of the fully converted and in conversion area at least 47'000 hectares of a large part of the organic vegetable area is under conversion. Thus, it can be concluded that not a big increase of the organic vegetable supply can be expected.

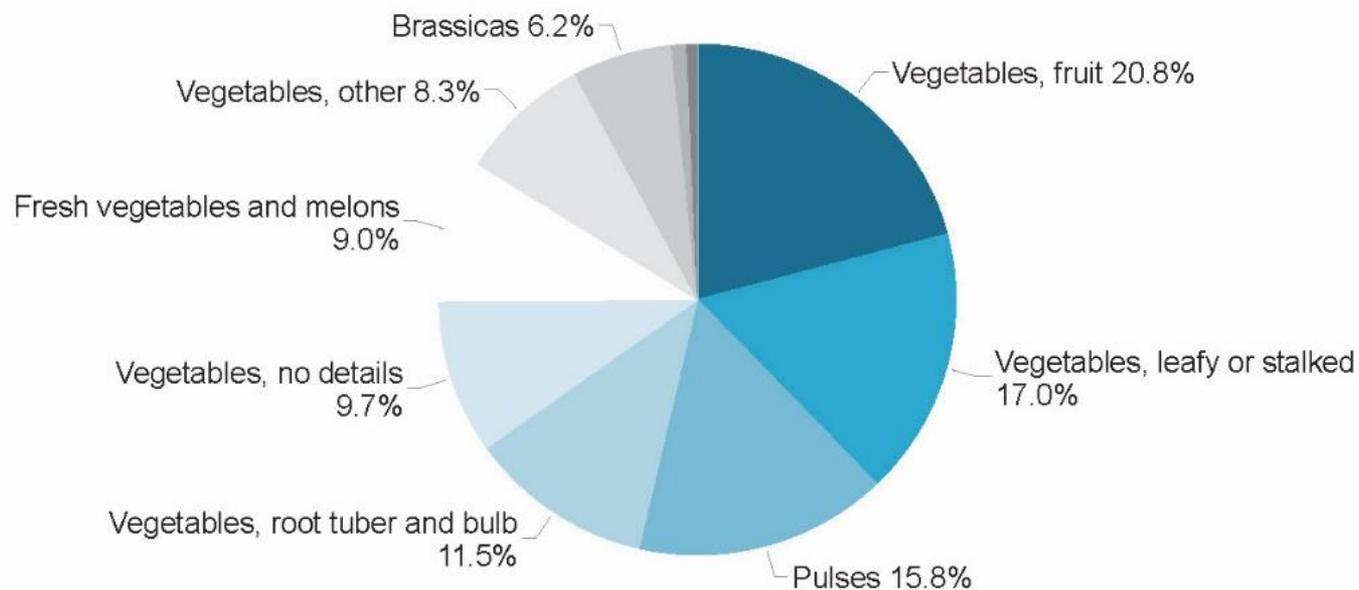
# World: Organic vegetables: Global distribution 2018

Vegetables: Organic area by country



# World: Distribution of the global organic vegetable area by crop 2018

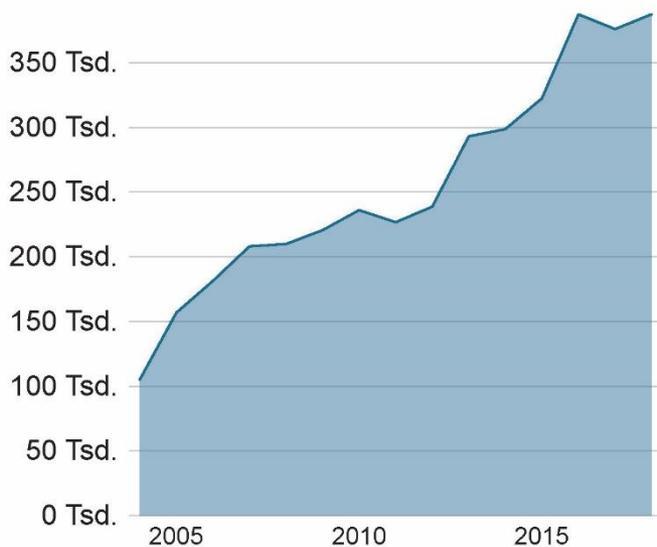
## Vegetables: Distribution of the global organic vegetable area by crop



# World: Development of the organic vegetable area and area by continent 2018

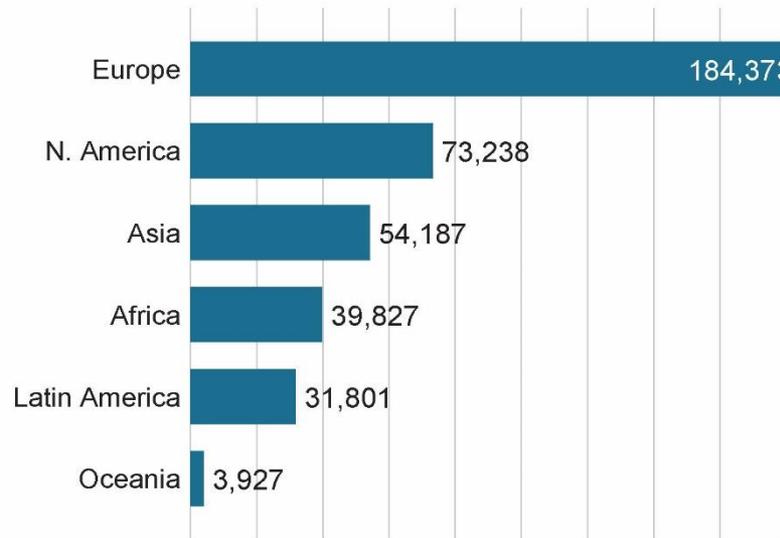
## Development of the organic vegetable area

in thousand hectares



## Vegetable area by continent

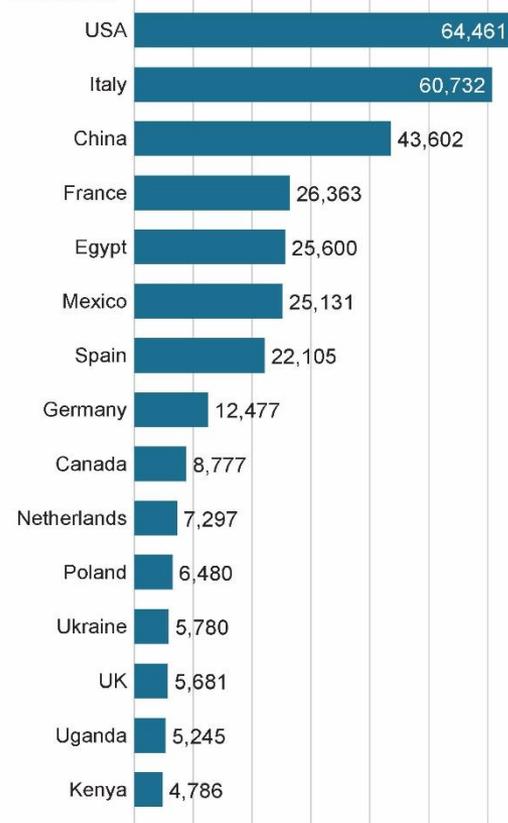
in hectares



# World: Countries with the largest organic vegetable area and highest organic vegetable area share 2018

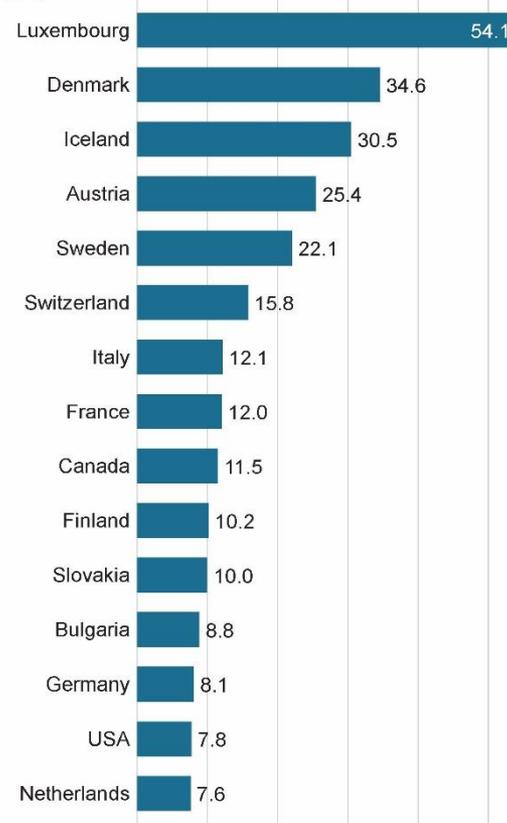
**The countries with the largest organic area**

in hectares



**The countries with the highest organic area share**

in %



## More information

More information (PDF, data sources, graphs) at <http://www.organic-world.net/yearbook/yearbook-2020.html>

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# Disclaimer

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