

CROP STATISTICS IN GERMANY

Follow up regional workshop on crop statistics Zagreb, 17 – 18 April 2008

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Crop Statistics in Germany

Agriculture and horticulture in Germany

A short overview

German agriculture and horticulture statistics

- Organisation of agricultural statistics
- Main crops land use, yields and harvested production
- Horticulture land use, yields and harvested production
 - Vegetables,
 - Fruit trees and bushes
 - Viticulture
- Horticulture land use
 - Ornamental plants and tree nurseries



Structure of agricultural holdings in Germany

Utilised agricultural area	1949	1971	1991	2007*)
Total	2 500 000	1 200 000	650 000	370 000
under 10 ha	2 000 000	720 000	320 000	134 000
10 - 50 ha	520 000	420 000	276 000	151 000
50 - 100 ha	16 000	18 000	44 000	53 000
100 ha and more	4 000	12 000	12 000	32 000

*) preliminary data.



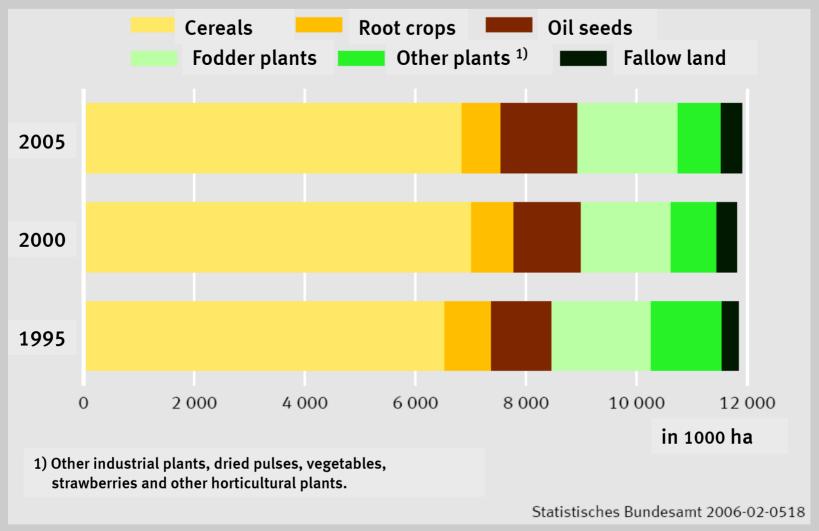
Average size of agricultural holdings in Germany

Year	1949	1971	1991	2007*)
Agricultural holdings	2 500 000	1 200 000	650 000	370 000
Average size	8 ha	12 ha	26 ha	46 ha

^{*)} preliminary data.

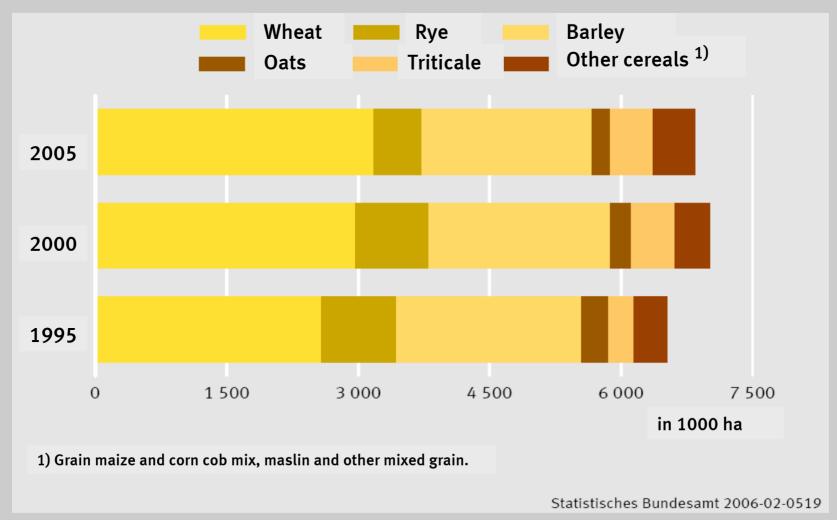


Arable land by main groups of crops in Germany



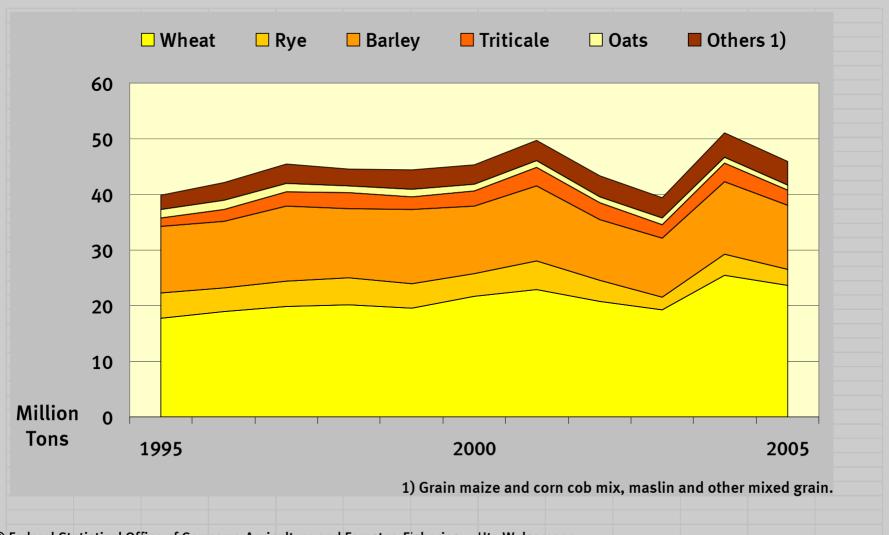


Cultivation of cereals in Germany



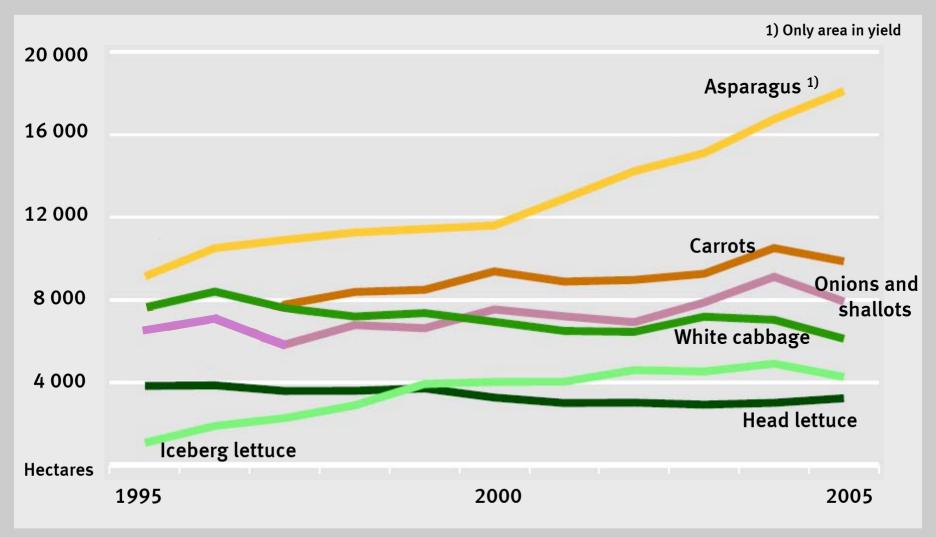


Harvested production of cereals in Germany



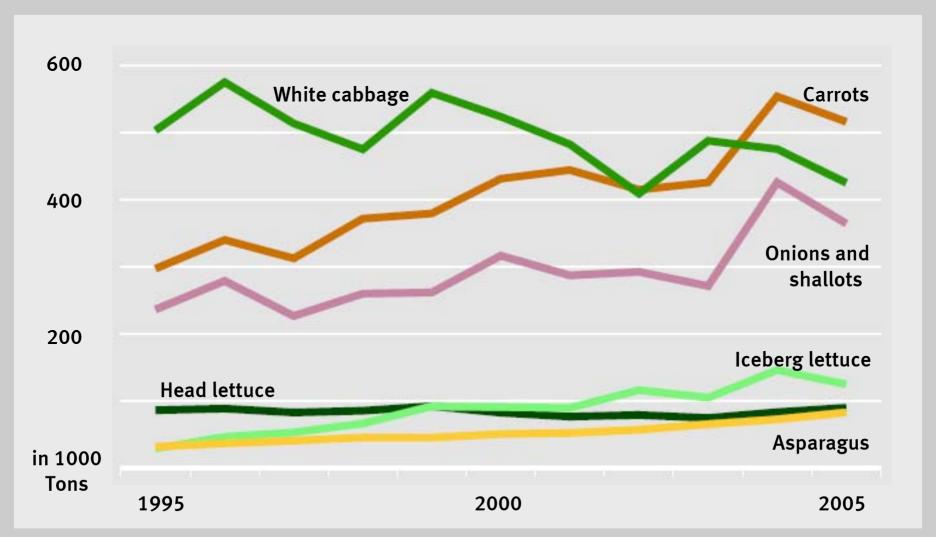


Cultivated area of main vegetables in Germany



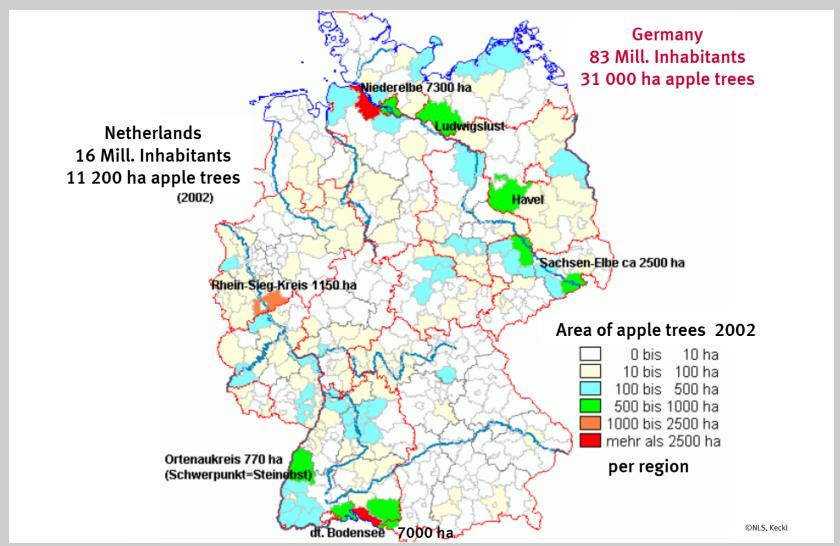


Harvested production of main vegetables



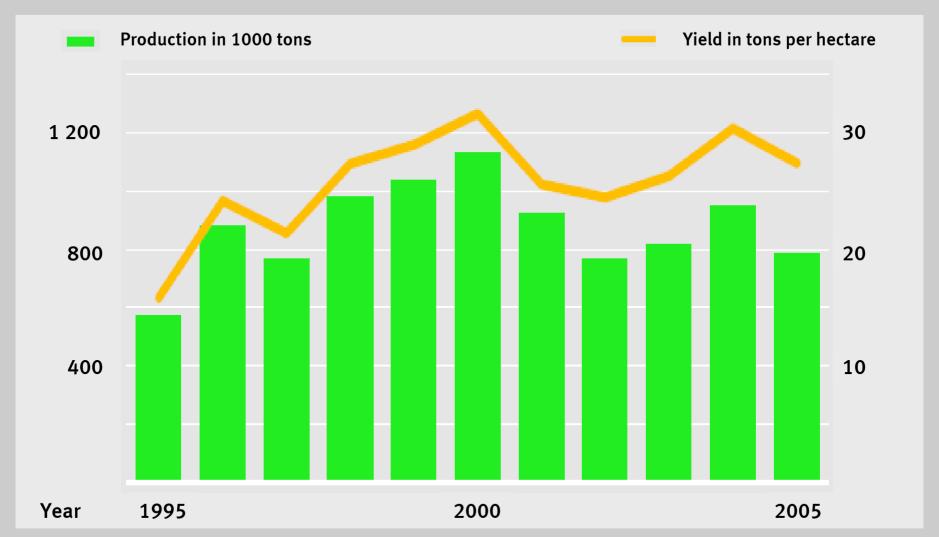


Main regions of apple tree plantations



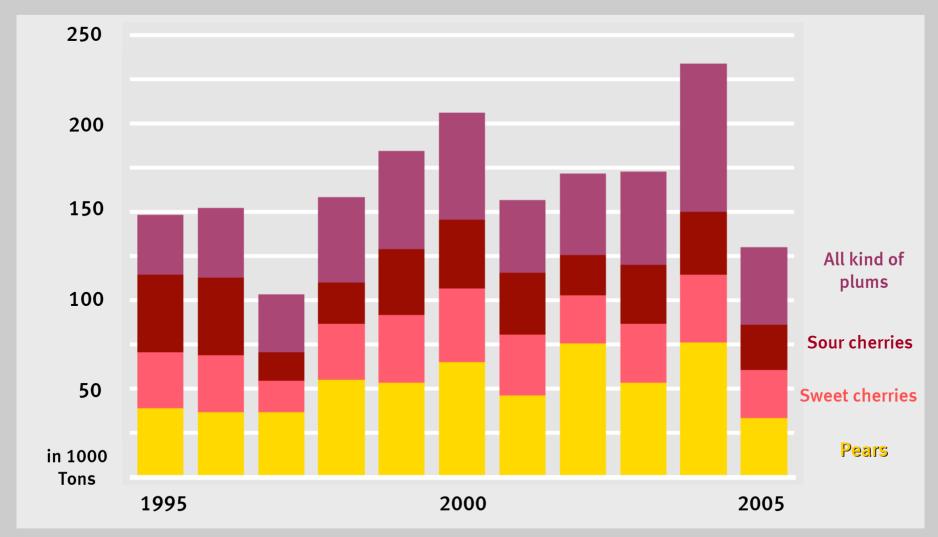


Harvested production and yield of apples in Germany



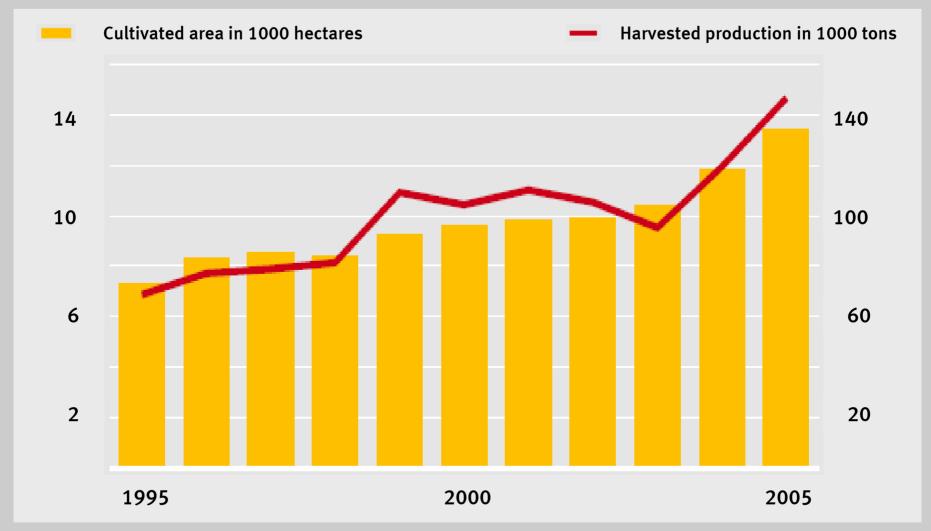


Harvested production of bears, cherries and plums



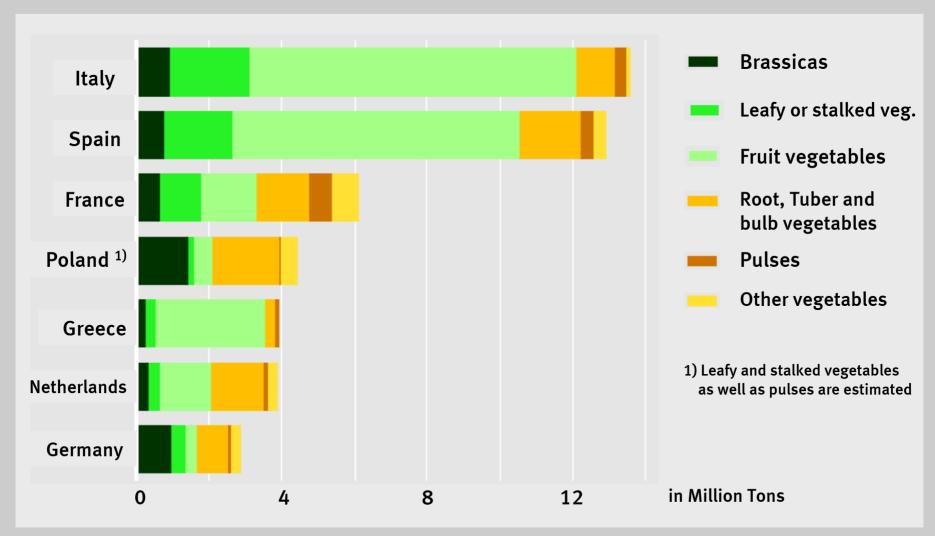


Cultivated area and yield of strawberries





Harvested production of fresh vegetables 2003





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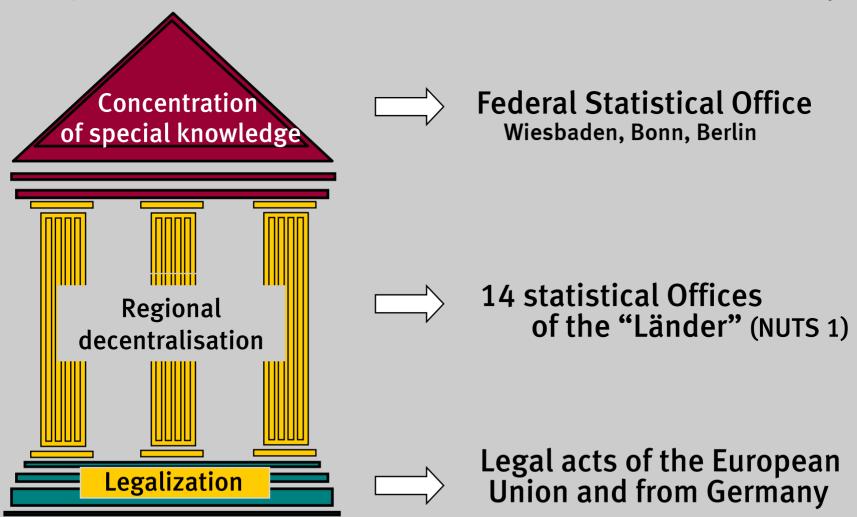
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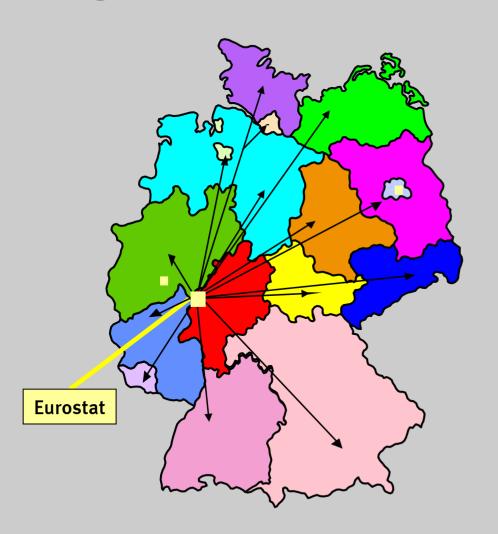


Organisation of federal statistics in Germany





Organisation of federal statistics in Germany



Federal statistical office

- Methodology
- Coordination (survey contents, design, data control ...)
- Data analysis on German level
- Publication of German results

"Länder"- Offices

- Farm register
- Organisation of surveys
- Data processing and control
- Data evaluation and analysis
- Publication on "Länder" and regional level



Process organisation of agricultural statistics

German agricultural statistics are mostly decentralised

- Methodological preparation
 - Contents of the survey EU and national legal basis
 - Sample size and selection or census
 - Specification of data control and coordinated tables
- Survey organisation
 - Establishment of the survey procedures
 - Data collection and data entry (in the "Länder")
 - Data processing, estimation and analysis



Legal basis for agricultural statistics

EU legal acts and "gentlemen's agreements"

- Regulation on surveys on structure of agric. holdings
- New regulation concerning crop statistics
- Directive on orchard surveys (every 5 years)
- Regulations on basic and intermediate vineyard surveys
- Different gentlemen's agreements
 - Main crop production
 - Vegetable production
 - Fruit production
 - Production of flowers and ornamental plants



Legal basis for agricultural statistics

National legal basis in Germany

- Agricultural Statistics Act (Agrarstatistikgesetz)
- Federal Statistics Act (Bundesstatistikgesetz)
- Regulation on the suspension and inclusion of characteristics pursuant to the Agricultural Statistics Act
- Wine (statistics) Act (Weingesetz)
 - access to administrative data of the viticulture register



Legal basis for agricultural statistics

Agricultural Statistics Act (Agrarstatistikgesetz)

- Legal provision for all agricultural statistics
 - Content, units, size and scope of the surveys
 - Frequency and reference periods
 - Responsibility for conducting the surveys
 - Administrative and financial regulations
 - Register, right of access to administrative data
 - Selection, obligations and protection
 - of the persons providing information
 - of the staff or persons conducting the surveys



Units in agricultural statistics in Germany

Agricultural holding (farm or production unit)

- 2 hectare and more agricultural cultivated area or
- less than 2 ha cultivated agricultural area, but reaching or exceeding the following limits
 - 3000 m² area for fruit and berry plantations
 - 3000 m² area for vine yards
 - 3000 m² area for hops or for tobacco
 - 3000 m² area for nurseries or for flowers or ornamental plants
 - 3000 m² area for vegetables
 - 3000 m² area for seeds and seedlings production
 - 3000 m² area for aromatic plants, medicinal and culinary plants
 - 300 m² area under glass or other accessible protective cover



Units in agricultural statistics in Germany

Agricultural holding (farm or production unit)

- Surveys on animal holding or farm structure include also units with the following limits
 - 8 cattle
 - 8 pigs
 - 20 sheep
 - 200 head of different kind of poultry (each)

Included are holdings without any agricultural cultivated area



Main farm structure surveys

Every 10 years (last one)

- Census of agricultural holdings (1999, next 2010)
- Census of horticultural holdings (2005)
 - Horticultural used area (main area and production area)
 - Area under glass or other accessible protective cover (years of construction, extent and way of heating, energy use)
 - Income and marketing channels
 - Structure of employees



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Main crops - land use

Land use surveys - no LUCAS

- Total surveys up to now (2007) every 4 years in May
 - main area of cereals and other crops combined with livestock surveys (all main species)
 - ⇒ about 370 000 units
- Sample surveys every year between also in May
 - main area of cereals and other crops combined with livestock surveys (cattle, pigs and sheep)
 - ⇒ up to 100 000 units (free extrapolation)
 - administrative data are used for both if possible
- Smaller sample surveys every year in November and April



Main crops - yields

Expert valuation of yields combined with sample control measurement at harvest time

- Expert valuation: voluntary sample survey for all crops
 - special experts or farmers themselves -
 - 5 times a year for special crops
 - June, July, August, September and October
- Sample control measurement at harvest time
 - main cereals, potatoes and winter rape
 - two-step selection (farm and field respective production area in each region)
 - either total thrashing of the field or several samples on the field



Main crops - yields and harvested production

Land use results

multiplied with

final results of yields



harvested production for each crop



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Horticultural surveys in Germany

- Census of horticultural holdings (latest 2005)
 - 35 000 units / every 10 years / general
- Orchard survey (latest 2007)
 - 12 000 units / every 5 years / general
- Survey of vegetable production area (incl. strawberries)
 - 12 000 units / annual sample survey / 4-yearly general
- Survey of ornamental plants (latest 2004 and now 2008)
 - 10 000 units / every 4 years / general
- Survey of nurseries (latest 2004 and now 2008)
 - 4 000 units / every 4 years / general



Census of horticultural holdings 2005

Special contents of the survey

Horticultural used area



Fruit trees / bush berries / strawberries /
Vegetables / ornamental plants /
Nurseries / seed and seedlings //
Cover of greenhouses

Greenhouses



Kind of cover /
Year of construction and main area /
Production area / way and extend
of heating / irrigation

Income and marketing channels



Percentage of own production / trading / Service delivery / kind of marketing channels and part of sales proceed

Not primary surveyed was the whole area of horticultural service delivery



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Survey of vegetable production area since 2006

Contents of the survey



Annual – sample survey

Characteristics

Production area of:

9 brassicas

12 leafy vegetables
rhubarb / asparagus / celery
7 root and tuber vegetables
5 fruit vegetables
5 pulses
5 further vegetables
8 vegetables under glass

strawberries open air

and under glass

Every 4 years – total last one 2004 – now 2008

Characteristics



Additionally:

Production area for contracts

Growing of seedlings

Main area for vegetables



Special questions for early- und later production of several brassicas and lettuces, spinach, carrots, gherkins and peas have been cancelled since 2006



Vegetables - yields and harvested production

Expert valuation of yields

- Voluntary sample surveys for all vegetables (since 2006)
 - 1 500 units / sample survey / 3 times a year: June, Aug., Nov.
 - special experts or farmers themselves -
 - June: strawberries, asparagus and rhubarb
 - August: all vegetables preliminary results end of September
 - November: all vegetables final results end of December





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Orchard Survey 2007

Survey contents

Fruit tree species

Pomaceous fruit: apples and pears

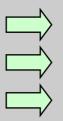


sweet cherries
sour cherries
plums
mirabelles / greengages



Characteristics

Varieties for minimum 80% of production area of each species of orchard plantation / age of trees / production area / number of trees (density of plantation) / kind of usage (dessert fruits or other purposes)



Varieties of dessert fruit or other purposes /
Production area / age of trees /
Number of trees (density of plantation)



Apricots, peaches and walnuts are no more part of survey (latest 2002)



Fruits - yields and harvested production

Expert valuation of yields

- **Voluntary sample surveys for all fruits** (since 2006)
- 1 800 units / sample survey / 4 times a year: June, July, Aug., Nov.
 - special experts or farmers themselves -
 - June: sweet cherries (preliminary results)
 - July: apples, cherries, plums (preliminary results)
 - August: apples, pears (preliminary), cherries, currents (final)results end of September
 - November: apples, pears, all kinds of plums, raspberries, blueberries final results in January





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Surveys of areas under vine (EU-VO 357/79)

Data of vineyard register

- Basic surveys every 10 years in all viticultural holdings (last survey in 1999, next survey in 2009)
 - Entire area under vine
 - Varieties of vine
 - Age of the vines
 - Yield classes
 - Bracing devices
- Interim surveys every year
 - Area under vine
 - Land clearings, replantation and discontinuation of cultivation
 - Varieties of vine



Must of wine - yields and harvested production

Expert valuation of yields

- **■** Voluntary sample surveys for wine must
 - 1 000 units / sample survey / 3 times a year: Aug., Sept., October
 - special experts or farmers themselves -
 - August: white must / red must (preliminary, results in Sept.)
 - Sept.: important varieties of vines (preliminary, results in Nov.)
 - October: weight and quality of must (preliminary, results in Dez.)

Estimation of the expected harvest of wine must Acreage recorded by the viniculture survey



Must of wine - yields and harvested production

Final results of yields and harvested production

- Results from the vineyard register
 - Reports of winegrowers in mid-December
 final harvest of wine must results in mid-March
 - Quality of must
 - White and red must
 - Important varieties of vine
 - Regional varieties of vine
 - Weight of must



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Survey of ornamental plants 2004/2008

Survey contents

Main area

Production area

Propagation area



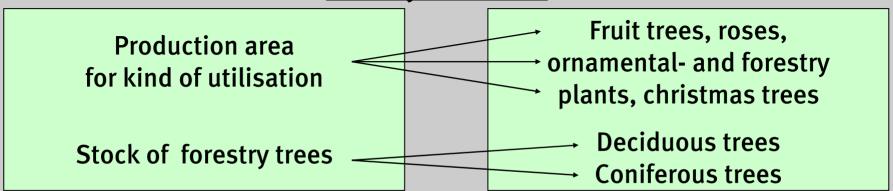
under glass

Plant varieties und species:

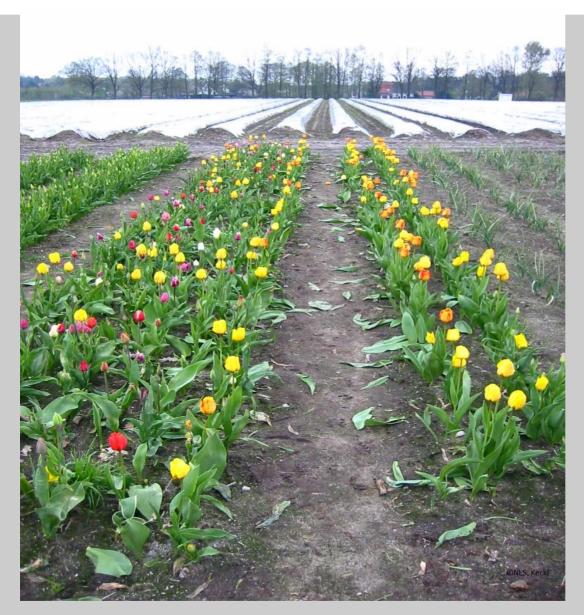
Bed- und balcony plants
Potted plants
Cut flowers

Nursery survey 2004/2008

Survey contents







Flowers and in the background asparagus

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ür Pferde und Gefl
ügel aus Mai 2005 fortgeschrieben Forschung und Entwicklung ² Landwirtschaftliche Betriebe mit einer landwirtschaftlich genutzten Fläche von mindestens 2 ha und mehr bzw. mit einer Mindestgröße an Wissenschaftsforum Erzeugungseinheiten.

³ Berechnung der Anteile auf Basis des zuvor in Großvieheinheiter

umgerechneten Viehbestandes.

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Forschungsdatenzentrum

Standardkosten-Modell



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Standard Cost Model

Data collection

Online methods (german)

Intra/Extra-EU trade

Land use III

Autumn seeding in 2007: More winter grain, less rape

In autumn 2007, farmers in Germany sowed winter grain for the coming harvest in 2008 on an area of 5.72 million hectares, while an area of more than 1.40 million hectares was sowed with winter rape. The area used for winter grain is hence 4.8% above the provisional results from the main survey of land use of May 2007. The area used to cultivate winter rape by contrast decreased from last year's high by 8.4% and hence corresponds to the value of 2006.

The above data have been taken from the crop production reports on field crops and grassland. They are based on information supplied by harvest reporters in the Laender and, due to their limited number, must be considered as provisional cultivation trends only.

The actual areas under cultivation are covered in May as part of the main survey of land use.

more...

Tables

- Agriculturally used area by main types of uses
- Arable land by main groupes of crops and by types of crops
- Orchard Survey 2002 and 2007.
- Tree nurseries an areas of tree nurseries
- Cultivation of ornamental plants



Version: 2.24.0 / 31.08.2007

Further Information

Press releases



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Land Use

Orchard Survey 2002 and 2007

Species of fruit trees	Hold	Holdings		Area of fruit trees		Trees	
	2002	2007	2002	2007	2002	2007	
	number		ha		number		
Fruit plantations, total ¹	13,671	11,454	49,597	47,912	74,213,229	77,896,318	
of which							
Apples	10,561	9,058	32,405	31,761	64,182,007	67,849,813	
Pears	5,901	5,325	2,188	2,101	2,703,016	2,875,828	
Sweet Cherries	7,732	6,577	5,504	5,482	1,826,669	2,150,042	
Sour Cherries	3,281	2,238	4,231	3,444	2,914,387	2,285,960	
Plums and damsons	8,038	6,864	4,562	4,564	2,294,788	2,502,509	
Mirabelle plums/greengage	2,604	2,623	473	561	186,805	232,166	
Apricots	202	٠.	53		30,157		
Peaches	525	1.	103		66,131		
Walnuts	636		77		9,269		

^{. =} numerical value unknown or not to be disclosed.

Version: 2.24.0 / 31.08.2007

Thin the year 2006 the result of the orchad survey 2002 were corrected retroactively (Lower Saxony, North Rhine-Westphalia.

¹ Starting from the year 2007 apricots, peaches and walnuts are not any longer raised.



Thank you for your attention!

For subject-related information and queries please contact: Agriculture and forestry, fisheries

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