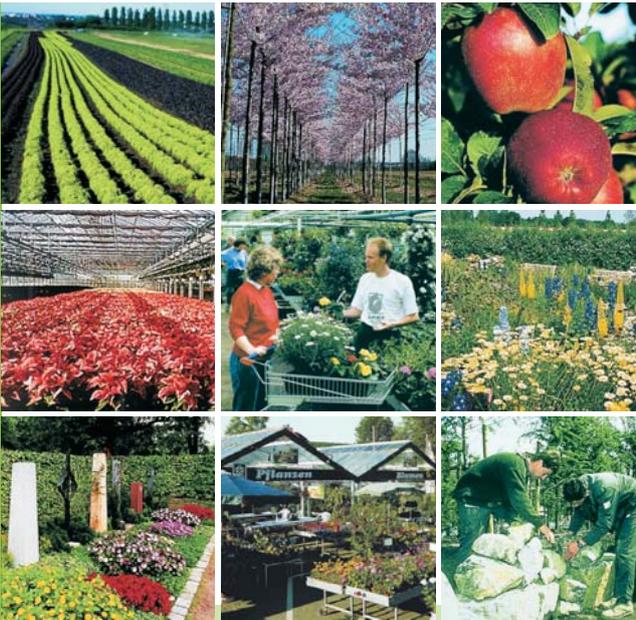




Horticulture

Facts and Figures



Economic Data

In economic terms, commercial horticulture is part of agriculture, so-called original production. Horticultural services are characterized by the annually determined value of both horticultural and fruit production and horticultural services rendered. For agriculture, a provisional production value of € 48,377 million was determined in 2008.

2008 Provisional production values of special sectors in horticulture (in million €)

Horticultural and fruit production 5,743				Horticultural services rendered 5,717	
Fruit	Vegetables	Flowers and ornamentals	Tree nursery products	Garden construction and landscaping	Cemetery gardening
923	2,083	1,574	1,163	4,417	1,300

Source: BMELV

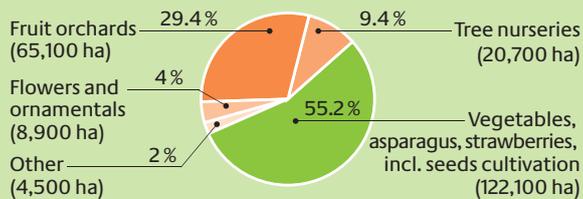
With a production value of about € 5,743 million, horticulture, including fruit production, contributed a share of almost 12% to total agricultural production. For horticultural services rendered a production value of € 5,717 million was determined.

Structure

In 2008 an acreage of about 221,300 ha, equivalent to 1.3% of the total acreage of 17 million ha in use for agriculture, was used to grow special cultures. Vegetable production makes up the biggest share, followed by fruit production, tree nurseries, flowers and ornamental plants.

2008 Land use in commercial horticulture in Germany

Special crop acreage: 221,300 ha



Source: Statistisches Bundesamt, BMELV

The 2007 survey on agricultural structure covered almost 20,000 horticultural enterprises. An additional 10,000 agricultural enterprises also engaged in horticultural production. Business structure in horticulture is characterised by small and medium-size enterprises which create most of the jobs in horticulture. Almost 90% were managed as individual

2007 Number of horticultural enterprises

Commercial horticulture	19,903
Fruit cultivation	7,750
Flowers and ornamentals	7,133
Tree nurseries	2,636
Vegetables	2,021
Other	383
Garden, landscape and sports field construction ¹⁾	14,461
Cemetery gardening ¹⁾	9,200

¹⁾ Estimates

Source: Statistisches Bundesamt, 2007 Survey on agricultural structure, BGL, ZVG

enterprises, two thirds of them full-time. Compared to agriculture in general, commercial horticulture is quite labour-intensive. Hence 340,000 people, i.e. a quarter of the workforce in agriculture, are employed

in horticulture. If we add those employed in horticultural services, horticulture accounts for a workforce of almost 500,000 employees. According to data of the Federal Office of Statistics (Statistisches Bundesamt) in 2008, horticultural enterprises provided over 18,000 apprenticeships for gardeners. Education and training generally take three years and can be done in seven special fields.

Number of horticulture apprentices 2008

Total (7 special branches)	18,022
Garden and landscape construction	11,585
Ornamental plant culture	3,376
Tree nurseries	1,403
Cemetery gardening	608
Vegetable cultivation	524
Perennial gardening	270
Fruit growing	256

Source: Statistisches Bundesamt

Horticultural and fruit production

Vegetable production

In 2008 open-space vegetables were commercially grown on an acreage of 112,625 ha. About 3,26 million tonnes, an increase of almost 3% compared to the previous year, were harvested. Vegetable cultivation under glass has continued to grow to 1,500 ha. The provisional degree of self-sufficiency with vegetables from market vegetable production was at 38% for the 2008 marketing year. Provisional per capita consumption was at 88.9 kg.

2008 Open space acreage for major vegetables

Vegetable	ha	Vegetable	ha
Asparagus, yielding	18,436	Leek	2,682
Carrots	10,226	Gherkins	2,473
Onions	8,942	Lettuce	2,392
White cabbage	6,767	Red cabbage	2,374
Cauliflower	4,819	Lamb's lettuce	2,318
Peas (without pods)	4,784	Kohlrabi	2,317
Bush beans	4,640	Broccoli	2,214
Crisphead lettuce	4,585	Sweet corn	1,853
Spinach	3,528	Pumpkin	1,640
Radish	3,293	Red beet	1,560

Source: Statistisches Bundesamt

Fruit production

Fruits were grown on 30 % of the acreage in horticultural use. Compared to last year, fruit harvest in 2008 decreased by 7.1 % to 1,326 million tonnes. Following the record year of 2007, apple harvests decreased only slightly by 2.2 %. In 2008/09 per capita consumption of fruits from market fruit cultivation was at 68.6 kg. The provisional supply balance indicates a 22 % degree of self-sufficiency.

2008 Harvest of selected fruit species in Germany (in t)

Other	4,480
Raspberries, blueberries, currants	20,037
Pears	31,363
Plums and damsons	38,076
Cherries, sweet and sour	40,077
Strawberries	144,938
Apples	1,046,995

Source: Statistisches Bundesamt, BMELV

Flowers and ornamental plants including perennial gardening

The 2008 survey on ornamental plant cultivation indicates that about 8,600 enterprises in Germany cultivated flowers and ornamental plants on an acreage of 7,167 ha of which 2,256 ha are under glass. Indoor plants (blooming potted plants and green plants), bedding and balcony plants as well as perennials were grown on 3,504 ha, i.e. 49 % of the total acreage in use. Cultivation of cut flowers followed with 44 % on 3,167 ha. Young plant products were grown on about 4 % of the total acreage while seeds, flowering corms and tubers were produced on 230 ha (3 %). As the area for ornamental plants is often used several times per year this leads to higher figures for cultivation acreage (see diagramme: Main survey on land use).

2008 Production of major bedding and balcony plants and perennials (Ready products)

Plants	in million pieces	Number of businesses *
Viola (Pansies)	265	4,283
Potted perennials	109	1,674
Primula	97	3,375
Calluna (Heather)	96	460
Pelargonium (Geraniums)	96	4,423
Begonia without Elatior	87	3,093
Petunia (Petunias, Calibrachoa)	41	3,715
Impatiens	39	3,745
Erica	30	446
Daisies	11	2,057

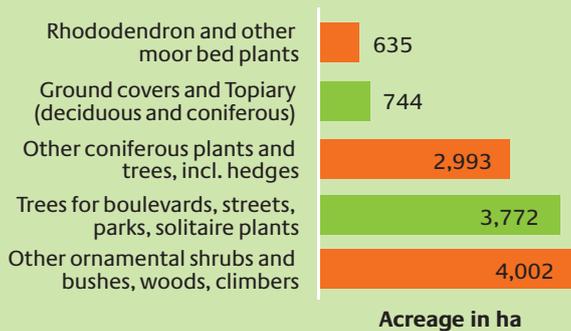
* Multiple entries possible

Source: Statistisches Bundesamt

Tree nursery products

The tree nursery survey of 2008 includes 3,035 tree nurseries which grow a variety of species, both deciduous and coniferous, including street and park trees, blooming and fruit woods, ornamental shrubs, ground covers and roses as well as hedges and climbers. Tree nurseries manage almost 10 % of the area in horticultural use.

2008 Area of nurseries for the production of Ornamental shrubs and woods for streets, parks, gardens and woods for landscaping



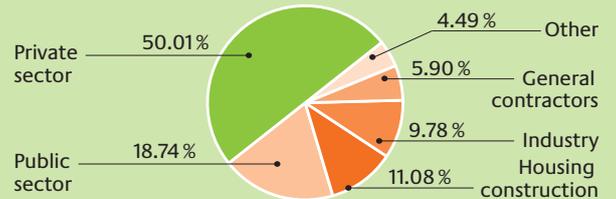
Source: Statistisches Bundesamt, BMELV

Horticultural Services

Garden construction and landscaping

Exterior facilities are built and maintained by garden, landscape and sports fields constructors. These facilities include private gardens, parks, green spaces as well as playgrounds and sports fields. Construction and maintenance include greening of roofs, facades and interiors as well as various recultivation and tree rehabilitation measures.

Client structure in garden construction and landscaping in 2008



Source: Bundesverband Garten-, Landschafts- und Sportplatzbau e. V.

Cemetery gardening

Cemetery gardeners plan, construct and maintain a variety of gravesites. The responsible local trustees supervise the services to be rendered in connection with permanent gravesite care. There are about 32 million gravesites on ca. 32,000 cemeteries in Germany. Over 80 % of these gravesites are decorated with flowers. The majority of cemetery gardeners operate as business establishments.

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