



Census of Agriculture 1999

Official Statistics of Norway

This series consists mainly of primary statistics, statistics from statistical accounting systems and results of special censuses and surveys, for reference and documentation purposes. Presentation is basically in the form of tables, figures and necessary information about data, collection and processing methods, and concepts and definitions. In addition, a short overview of the main results is given.

The series also includes the publications Statistical Yearbook of Norway, Historical Statistics and Guide to Norwegian Statistics.

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Preface

The purpose of this NOS publication is to give an overall presentation of the 1999 Agricultural Census at county level and by various structural classifications. Where possible, figures comparable to previous censuses are included in order to show the development over time. Municipal level results have been previously presented in separate publications for each county.

This publication contains statistics on the number of holdings, area use, farm animals, drainage, reclamation, farm buildings, machines, equipment, labour input on or off the holding, etc.

The variables involved are numerous, so this publication does not present statistics for every need. The data is stored at individual level (holdings). More detailed and custom-made statistics can be produced by order.

Parts of the statistics have been previously published in Statistics Norway's internet pages and are available at http://www.ssb.no/jt1999_en/.

Eivind Siig Meen (Senior Executive Officer) prepared the publication, assisted by Anne Snellingen Bye (Advisor) and Ole Rognstad (Advisor). Dagfinn Sve was project leader of the 1999 Agricultural Census, while Ole Osvold Moss is responsible Head of Division for Primary Industry Statistics.

Statistics Norway,
Oslo/Kongsvinger, 21 January 2003

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Contents

List of figures	5
List of tables	6
Chapters	
1. About the 1999 Agricultural census.....	11
2. Ownership and area resources	16
3. Agriculture.....	34
4. Horticulture	54
5. Livestock	91
6. Farm buildings and facilities/equipment in the buildings.....	110
7. Machinery and equipment	125
8. Education, employment and supplementary industries.....	142
9. Income, property, debt and assessed tax.....	161
Appendices	
A. Information and instructions	176
B. Main questionnaire.....	187
C. Supplementary questionnaire	191
D. Instructions for greenhouse and horticulture questionnaire	193
E. Greenhouse and horticulture questionnaire	197
Previously issued on the subject.....	201
Recent publications in the series Official Statistics of Norway	202

List of figures

2. Ownership and area resources

2.1. Holders being natural persons as holders, by age. The whole country. 1989 and 1999. Per cent	16
2.2. Holdings where the holder or spouse/cohabitant had allodial rights to the main holding, by year of receiving title to the main holding and gender of the person having allodial rights. The whole country	16
2.3. Rented agricultural land as per cent of agricultural land in use, by county. 1999	17
2.4. Average driving distance to the field located furthest from farmyard, by county. 1999. km	18

3. Agriculture

3.1. Average agricultural area per holding and number of holdings. The whole country. 1949, 1959, 1969, 1979, 1989 and 1999	34
3.2. Average agricultural area per holding, by county. 1989 and 1999. Decares	34
3.3. Holdings, by size of agricultural area in use. The whole country. 1969, 1979, 1989 and 1999	35
3.4. Agricultural area in use, by kind of crop. The whole country. 1969, 1979, 1989 and 1999. 1 000 decares	35
3.5. Holdings with grain and oil-seeds, by size of area with grain and oil-seeds. The whole country. 1989 and 1999	36

4. Horticulture

4.1. Holdings in various types of horticulture. The whole country. 1979, 1989 and 1999	54
4.2. Labour input in various types of horticulture. The whole country. 1998. Man-years	54
4.3. Holdings by size of area used for vegetables. The whole country. 1979, 1989 and 1999	55
4.4. Area planted with fruit trees, by species. The whole country. 1999. Per cent	55
4.5. Strawberry area, by county. 1989 and 1999. Decares	56
4.6. Greenhouse holdings and greenhouse area, by size of greenhouse area per holding. The whole country. 1999. Per cent	57
4.7. Holdings by type of greenhouse production. The whole country. 1998. Per cent	57

5. Livestock

5.1. Holdings with various types of livestock. The whole country. 1969, 1979, 1989 and 1999	91
5.2. Number of dairy cows, by county. 1999	92
5.3. Number of sheep aged 1 year and over, by county. 1999	92
5.4. Number of breeding sows, by county. 1999	92

6. Farm buildings and facilities/equipment in the buildings

6.1. Number of farm buildings, by type and size. The whole country. 1999	110
6.2. Base area of farm buildings, by year of construction and whether the buildings have been rebuilt or enlarged. The whole country. 1999	110
6.3. Base area of farm buildings rebuilt/enlarged in 1990-1999 as per cent of base area for all farm buildings, by county	111
6.4. Proportion of holdings with storage capacity of at least 8 months for slurry and solid dung respectively, by county. 1999. Per cent	111

7. Machinery and equipment

7.1. Holdings with/without four-wheeled tractor. The whole country. 1969, 1979, 1989 and 1999	125
7.2. Four-wheeled tractors by engine power. The whole country. 1989 and 1999. Per cent	125
7.3. Four-wheeled tractors by operating time the last 12 months. The whole country. 1999. Per cent	126

8. Education, employment and supplementary industries

8.1. Holdings, by highest level of agricultural education completed by holder and/or spouse/cohabitant. The whole country. 1999. Per cent	142
8.2. Labour input in agriculture and horticulture, by type of labour. The whole country. 1998-1999. Per cent	143
8.3. Holdings and man-years in agriculture and horticulture, by man-years per holding. The whole country. 1998-1999. Per cent	143
8.4. Holders and spouses/cohabitants, by labour input at the holding. The whole country. 1998 - 1999	144
8.5. Percentage of holdings with supplementary industry, by county. 1999	144

9. Income, property, debt and assessed tax

9.1. Distribution of gross income of holders and spouses/cohabitants, by type of income. The whole country. 1999. Per cent	162
9.2. Entrepreneurial income from agriculture and horticulture per holding, by county. 1999. NOK	162
9.3. Income and property taxes to the municipality, by county. 1999. Million NOK	162

List of tables

2. Ownership and area resources

2.1.	Total number of holdings, holdings by type of holder and holdings owned/rented by the holder, by county and various structural classifications	19
2.2.	Holdings with natural person as holder, by gender and marital status of the holder, county and various structural classifications	20
2.3.	Holdings with natural person as holder, by age of holder, average age of holder, county and various structural classifications	21
2.4.	Holdings owned by natural person, by time when holder or spouse/cohabitant received title to the main holding, county and various structural classifications	22
2.5.	Holdings where holder or spouse/cohabitant did/did not have allodial rights when receiving title to the main holding, by county and various structural classifications. 1999	23
2.6.	Area owned by holder and/or spouse/cohabitant, by county and various structural classifications. 1999. Decares	24
2.7.	Holdings which rent agricultural area and size of rented area, by county and various structural classifications	25
2.8.	Holdings which rent agricultural area and size of rented area, by type of contract, county and various structural classifications	26
2.9.	Holdings with payment for rented agricultural area and size of rented area by average paid rent per decare, by county and various structural classifications	27
2.10.	Holdings by the number of parcels and fields the agricultural area is divided into, by county and various structural classifications. 1999	28
2.11.	Holdings by driving distance from farmyard of the main holding to the field located furthest away, by county and various structural classifications. 1999	29
2.12.	Holdings with ditching of agricultural area during the period 1994-1998 and size of agricultural area being ditched, by county and various structural classifications	30
2.13.	Holdings with reclamation of agricultural area or clearing of other infield pastureland during the period 1994-1998 and the size of area reclaimed or cleared, by county and various structural classifications.....	31
2.14.	Reclaimed agricultural area and cleared other infield pastureland undertaken during the period 1994-1998, by type of land being reclaimed or cleared, county and various structural classifications	32
2.15.	Holdings which during the period 1994-1998 put agricultural area that had been unused for at least 2 years back into production and size of such land, by type of land, county and various structural classifications.....	33

3. Agriculture

3.1.	Holdings by size of agricultural area in use, county and various structural classifications	37
3.2.	Agricultural area in use, by size of holdings, average agricultural area in use per holding, county and various structural classifications. Decares	38
3.3.	Holdings cultivating various crops, by county and various structural classifications	39
3.4.	Agricultural area, by different crops, county and various structural classifications. Decares	40
3.5.	Holdings with grain and oil-seeds, by county and various structural classifications	41
3.6.	Area of grain and oil-seeds, by county and various structural classifications. Decares	42
3.7.	Holdings with grain and oil-seeds, by area of grain and oil-seeds, county and various structural classifications	43
3.8.	Area of grain and oil-seeds, by area of grain and oil-seeds per holding, county and various structural classifications. Decares	44
3.9.	Holdings using nitrogen (N) from commercial fertilizer on grain and oil-seeds the year before census, by average kg of N per decare, county and various structural classifications	45
3.10.	Holdings using phosphorus (P) from commercial fertilizer on grain and oil-seeds the year before census, by average kg of P per decare, county and various structural classifications	46
3.11.	Holdings with potatoes, by area used for potatoes, county and various structural classifications	47
3.12.	Area of potatoes, by area used for potatoes per holding, county and various structural classifications. Decares	48
3.13.	Holdings with various crops for feed and size of area of these crops, by county and various structural classifications	49

3.14.	Holdings with fully cultivated meadows by age, holdings with surface-cultivated meadows and holdings with other infield pastureland, by county and various structural classifications	50
3.15.	Area of fully cultivated meadows by age, area of surface-cultivated meadows and area of other infield pastureland, by county and various structural classifications. Decares	51
3.16.	Holdings using nitrogen (N) from commercial fertilizer on fully cultivated meadow the year before census, by average kg of N per decare, by county and various structural classifications	52
3.17.	Holdings using phosphorus (P) from commercial fertilizer on fully cultivated meadow the year before census, by average kg of P per decare, county and various structural classifications	53

4. Horticulture

4.1.	Horticulture. Holdings total and holdings in various sectors of horticulture, by county and various structural classifications	58
4.2.	Horticulture. Total area and area of field-grown vegetables, fruit trees, field-grown berries, greenhouses and nurseries, by county and various structural classifications. Decares	59
4.3.	Horticulture. Holdings, by share of income from the holding contributed by horticulture, holders by gender, county and various structural classifications	60
4.4.	Horticulture. Labour input in various sectors of horticulture and labour input executed by foreign guest workers, by county and various structural classifications. 1998	61
4.5.	Horticulture. Holdings in various sectors of horticulture, by way of marketing horticultural products. 1998 ..	62
4.6.	Horticulture. Holdings with investments and invested amount during the period 1996-1998 in greenhouses and other buildings used for horticultural production, by county and various structural classifications	63
4.7.	Vegetables, field grown. Holdings, by area of vegetables, use of covers, county and various structural classifications	64
4.8.	Vegetables, field grown. Area of vegetables, by size of area used for vegetables per holding, use of covers, county and various structural classifications. Decares	65
4.9.	Vegetables, field grown. Area with successive crops (double crops) in the same growing season. 1999	66
4.10.	Vegetables, field grown. Cultivation of various kinds of vegetables. 1999	66
4.11.	Vegetables, field grown. Cultivation of carrots, common cabbage, cauliflower, table swedes and turnips, by county and various structural classifications	67
4.12.	Fruit. Holdings by area of fruit trees, county and various structural classifications	68
4.13.	Fruit. Area used for fruit trees, by size of fruit tree plantation per holding, county and various structural classifications. Decares	69
4.14.	Fruit. Holdings which cultivated fruit, by species of fruit trees, county and various structural classifications	70
4.15.	Fruit. Area of fruit trees, by species of fruit trees, county and various structural classifications. Decares	71
4.16.	Fruit. Various species and varieties by planting period. 1999	72
4.17.	Berries, field grown. Holdings with berries, by species, county and various structural classifications	73
4.18.	Berries, field grown. Area of berries, by species, county and various structural classifications. Decares	74
4.19.	Berries, field grown. Holdings with strawberries, by size of strawberry beds, use of covers, county and various structural classifications	75
4.20.	Berries, field grown. Area of strawberries, by size of strawberry beds per holding, use of covers, county and various structural classifications. Decares	76
4.21.	Berries, field grown. Holdings with strawberries in bearing by varieties and holdings with strawberries newly planted, by county and various structural classifications	77
4.22.	Berries, field grown. Area of strawberries in bearing by varieties, area of strawberries newly planted and area of young plant production, by county and various structural classifications. Decares	78
4.23.	Greenhouses. Holdings with greenhouses, number of greenhouses and area of greenhouses, by county and various structural classifications	79
4.24.	Greenhouses. Holdings with greenhouses and area of greenhouses, by size of greenhouse area per holding, county and various structural classifications	80
4.25.	Greenhouses. Holdings with sales of self-produced greenhouse products from own shop, by county and various structural classifications. 1999	81
4.26.	Greenhouses. Holdings by type of energy used in greenhouses and holdings with electric boiler and heat pump, by various structural classifications	82
4.27.	Greenhouses. Consumption of energy, by various structural classifications	82
4.28.	Greenhouses. Growing lights, by various structural classifications. 1999	83
4.29.	Greenhouses. CO ₂ -supply and internal transport, by various structural classifications. 1999	83

4.30. Greenhouses. Irrigation system, light intensity system and regulation of length of day, by various structural classifications. 1999	84
4.31. Greenhouses. Area of growing media used in various productions in greenhouses, by various structural classifications. 1999. 1 000 m ²	84
4.32. Greenhouses. Biological/integrated plant protection in production of vegetables and flowers, by county and various structural classifications. 1999	85
4.33. Greenhouses. Holdings with various kinds of production, by county and various structural classifications.....	86
4.34. Greenhouses. Production of various kinds of vegetables and berries in greenhouses. 1998	87
4.35. Greenhouses. Production of cut flowers. 1998	87
4.36. Greenhouses. Production of flowering potted plants, decorative plants and bedding plants. 1998.....	88
4.37. Greenhouses. Production of bulb flowers in pots and mini-potted plants. 1998	89
4.38. Greenhouses. Production of young vegetable plants. 1998	89
4.39. Nurseries. County and various structural classifications. 1999	90
4.40. Nurseries. Sold production in 1998. Number of plants	90

5. Livestock

5.1. Holdings with various kinds of livestock, by county and various structural classifications	94
5.2. Domestic animals, by county and various structural classifications	95
5.3. Average number of animals per holding, by kind of animal, county and various structural classifications	96
5.4. Holdings with livestock and holdings with various kinds of livestock, by county and various structural classifications	97
5.5. Holdings with cattle, by county and various structural classifications	98
5.6. Number of cattle, by county and various structural classifications	99
5.7. Holdings with dairy cows and number of dairy cows, by size of herd, county and various structural classifications	100
5.8. Holdings with sheep and number of sheep, by county and various structural classifications	101
5.9. Holdings with sheep 1 year and over and number of sheep 1 year and over, by size of flock, county and various structural classifications	102
5.10. Holdings with goats and number of goats, by county and various structural classifications	103
5.11. Holdings with pigs and number of pigs, by county and various structural classifications	104
5.12. Holdings with breeding sows, by size of herd, county and various structural classifications	105
5.13. Number of breeding sows by size of herd, county and various structural classifications	106
5.14. Holdings with laying hens, by size of herd, county and various structural classifications	107
5.15. Number of laying hens, by size of herd, county and various structural classifications	108
5.16. Holdings with various kinds of poultry and number of poultry, by county and various structural classifications	109

6. Farm buildings and facilities/equipment in the buildings

6.1. Holdings with/without farm building, holdings with different types of farm buildings and base area of farm buildings, by county and various structural classifications	112
6.2. Holdings with farm buildings, by what purpose(s) buildings are used for or built for, county and various structural classifications. 1999	113
6.3. Number of farm buildings, by type of building, size of building, county and various structural classifications. 1999	114
6.4. Base area of farm buildings with livestock quarter and coarse fodder storage, by year of construction, county and various structural classifications. 1 000 m ²	115
6.5. Base area of farm buildings with livestock quarter and coarse fodder storage, by year of construction, year of rebuilding/enlarging, county and various structural classifications. 1999. 1 000 m ²	116
6.6. Base area of farm buildings with livestock quarter but without any coarse fodder storage, by year of construction, county and various structural classifications. 1 000 m ²	117
6.7. Base area of farm buildings with livestock quarter but without any coarse fodder storage, by year of construction, year of rebuilding/enlarging, county and various structural classifications. 1999. 1 000m ² ..	118
6.8. Base area of farm buildings used for or built for other purposes than livestock, by year of construction, county and various structural classifications. 1 000 m ²	119
6.9. Base area of farm buildings used for or built for other purposes than livestock, by year of construction and year of rebuilding/enlarging, county and various structural classifications. 1999. 1 000 m ²	120
6.10. Holdings with grain drier, area of grain and oil-seeds on holdings with/without grain drier and holdings with hay drier, by county and various structural classifications	121

6.11. Holdings with emergency power generator. Holdings with dairy barn and capacity of dairy barn, by type of barn, county and various structural classifications. 1999	122
6.12. Holdings with fire alarm system and holdings with storage for slurry, solid dung or built up/deep litter, by county and various structural classifications. 1999	123
6.13. Holdings with storage for slurry and solid dung, by storage capacity, county and various structural classifications. 1999	124

7. Machinery and equipment

7.1. Holdings with/without four-wheeled tractor, by county and various structural classifications	127
7.2. Four-wheeled tractors by engine power, by county and various structural classifications	128
7.3. Four-wheeled tractors, by model year, county and various structural classifications	129
7.4. Four-wheeled tractors with two/four wheel drive, by time used last 12 months, county and various structural classifications. 1999	130
7.5. Holdings with two-wheeled tractor and motorized mower and number of two-wheeled tractors and motorized mowers, by county and various structural classifications	131
7.6. Holdings with combine harvester and number of combine harvesters, by model year, working width, county and various structural classifications	132
7.7. Holdings with crop sprayer and number of crop sprayers, by model year, working width, county and various structural classifications. 1999	133
7.8. Number of implements for soil preparation, by county and various structural classifications. 1999	134
7.9. Number of implements for harvesting fodder crops, by county and various structural classifications. 1999 ..	135
7.10. Number of miscellaneous implements, by county and various structural classifications. 1999	136
7.11. Holdings executing contracting work for others for payment in the last 12 months, by county and various structural classifications. 1999	137
7.12. Holdings with hiring machinery and operator from others for payment in the last 12 months, by county and various structural classifications. 1999	138
7.13. Holdings which pooled/exchanged machinery without payment in the last 12 months, by county and various structural classifications. 1999	139
7.14. Holdings with irrigation installations, by capacity of irrigation system, agricultural area which can be irrigated, county and various structural classifications	140
7.15. Holdings with irrigation installations, by type of irrigation equipment, type of water source, county and various structural classifications. 1999	141

8. Education, employment and supplementary industries

8.1. Holdings with natural person as holder, by highest level of completed education and agricultural education for holder and spouse/cohabitant, county and various structural classifications	145
8.2. Labour input in agriculture and horticulture, forestry and other supplementary industries on the holding, by county and various structural classifications. 1 August 1998-31 July 1999. 1 000 man-hours	146
8.3. Holdings by number of man-years executed in agriculture and horticulture, by county and various structural classifications. 1 August 1998-31 July 1999	147
8.4. Holders who worked on/off the holding, by county and various structural classifications. 1 June 1988-31 May 1989 and 1 August 1998-31 July 1999	148
8.5. Holders by labour input in agriculture and horticulture, forestry and supplementary industries, by county and various structural classifications. 1 June 1988-31 May 1989 and 1 August 1998-31 July 1999	149
8.6. Labour input executed by holders on and off the holdings, by county and various structural classifications. 1 June 1988-31 May 1989 and 1 August 1998-31 July 1999. 1 000 man-hours	150
8.7. Spouses/cohabitants who worked on/off the holding, by county and various structural classifications. 1 June 1988-31 May 1989 and 1 August 1998-31 July 1999	151
8.8. Spouses/cohabitants by labour input in agriculture and horticulture, forestry and supplementary industries, by county and various structural classifications. 1 June 1988-31 May 1989 and 1 August 1998-31 July 1999	152
8.9. Labour input executed by spouses/cohabitants on and off the holdings, by county and various structural classifications. 1 June 1988-31 May 1989 and 1 August 1998-31 July 1999. 1 000 man-hours	153
8.10. Holdings with labour input executed by family members, regular help and occasional help, by county and various structural classifications. 1 August 1998-31 July 1999	154
8.11. Family members with work on the holding and number of executed man-hours, by county and various structural classifications. 1 August 1998-31 July 1999	155
8.12. Regular help working on the holding and number of executed man-hours, by county and various structural classifications. 1 August 1998-31 July 1999	156

8.13. Occasional help working on the holding and number of executed man-hours, by county and various structural classifications. 1 August 1998-31 July 1999	157
8.14. Holdings hiring self-employed persons or firms to do agricultural or horticultural work and executed man-hours, by county and various structural classifications. 1 August 1998-31 July 1999	158
8.15. Number of man-years executed in supplementary industries, proportion of holdings with supplementary industry and number of holdings by type of supplementary industry, by county and various structural classifications. 1 August 1998-31 July 1999	159

9. Income, assets, debt and assessed tax

9.1. Holdings with/without information from the tax return account and the tax assessment register, by county and various structural classifications. 1999	163
9.2. Gross income. Refer to holders and spouses/cohabitants, by county and various structural classifications. 1999. Million NOK	164
9.3. Average gross income. Refer to holders and spouses/cohabitants, by county and various structural classifications. 1999. NOK	165
9.4. Average gross income. Refer to holders, by county and various structural classifications. 1999. NOK	166
9.5. Average gross income. Refer to spouses/cohabitants, by county and various structural classifications. 1999. NOK	167
9.6. Entrepreneurial income from agriculture and horticulture. Holdings by entrepreneurial income from agriculture and horticulture. Refer to holders and spouses/cohabitants, by county and various structural classifications. 1999	168
9.7. Holdings by entrepreneurial income from agriculture and horticulture as per cent of gross income. Refer to holders and spouses/cohabitants, by county and various structural classifications. 1999	169
9.8. Interest paid. Refer to holders and spouses/cohabitants, by county and various structural classifications. 1999	170
9.9. Debt. Refer to holders and spouses/cohabitants, by county and various structural classifications. 1999	171
9.10. Total gross property, tax value of agricultural real estate, debt and net property. Refer to holders and spouses/cohabitants, by county and various structural classifications. 1999	172
9.11. Net property. Refer to holders and spouses/cohabitants, by county and various structural classifications. 1999	173
9.12. Average income and property according to the tax assessment register. Refer to holders and spouses/cohabitants, by county and various structural classifications. 1999. NOK	174
9.13. Taxes. Refer to holders and spouses/cohabitants, by county and various structural classifications. 1999	175

1. About the 1999 Agricultural Census

1.1. Background and purpose

The purpose of the 1999 Agricultural Census was to obtain information about the resource and production bases, and provide data on operational, environmental and economic conditions within the agricultural industry.

The 1999 Agricultural Census comprises agricultural holdings including horticulture and livestock farming. Previously, separate, complete agricultural censuses were held in 1907, 1918, 1929, 1939, 1949, 1959 and 1969. In 1979 and 1989 full censuses of farms were held. These censuses included all farms, both those being operated as independent agricultural holdings and properties with all agricultural area either rented out as additional land to others or unused. Furthermore, the censuses of 1979 and 1989 also included pure forest properties. Separate, complete forestry censuses were held in 1920-27, 1957 and 1967. Moreover there were separate, complete horticulture censuses in 1974 and 1985.

The results from the full censuses have been important because they form the basis for planning, clarification and decision-making for public authorities and agricultural administration at central and local levels. Other users are researchers and the organisations within the industry.

1.2. About production of the statistics

Legal authority

The data is collected pursuant to § 2-2 (1) in the Act concerning official statistics and Statistics Norway of 16 June 1989 No 54.

According to the EEA treaty, Norway is obliged to carry out the same structural surveys in agriculture as member countries in the EU. The relevant legal procedure here is the Council Regulation (EEC)No 571/88 of 29 February 1988, on the organisation of Community surveys on the structure of agricultural holdings between 1988 and 1997, with later amendments.

Scope

The 1999 Agricultural Census included all those who fulfilled one or more of the following conditions:

- | | |
|------------------------|---------------------------------------|
| 1. Cultivated at least | 5 decares of agricultural area |
| 2. " " | 300 m ² of greenhouse area |
| 3. " " | 2,0 decares of field-grown vegetables |
| 4. " " | 1,0 decare of fruit trees |

- | | |
|------------------------|---|
| 5. Cultivated at least | 1,0 decare of field-grown berries (strawberries, raspberries, blackcurrants or other berries) |
| 6. " " | 1,0 decare of nurseries |
| 7. Had at least | 10 cattle including calves |
| 8. " " | 25 sheep above 1 year |
| 9. " " | 10 goats above 1 year |
| 10. " " | 5 breeding pigs and/or 200 other pigs |
| 11. " " | 1 000 laying hens and/or chickens reared for laying hens |
| 12. " " | 5 000 chickens for slaughter |

Register basis

The *Farm Register*¹ was used as the register of addresses when the questionnaires were issued to census respondents. Norwegian Grain² owned the Farm Register and the Norwegian Institute of Land Inventory³ was responsible for its operation. As from 2000, the Norwegian Agricultural Authority⁴ operates and is responsible for the register. The register comprises all farming properties, agricultural holdings and persons associated with these units as owners and/or holders. If the holding applied for production subsidies for farming in 1998, delivered grain to Norwegian Grain, delivered meat to a slaughterhouse or such, it was coded into the Farm Register as active. The main questionnaire was issued to all holdings coded as active by May 1999.

Data sources

Applications for agricultural production subsidies by 31 July 1999 were used as a source of information on the use of agricultural area and the number of livestock. This is also the reason why the census date in 1999 was different from previous censuses. Norwegian Grain administrated the system of agricultural production subsidies.

For holders being natural persons and their spouses/cohabitants, data from the *tax return account* and *tax assessment register* was combined. This information came from the Directorate of Taxes. Further, information on highest form of education completed was retrieved from Statistics Norway's own education register.

In addition to the administrative data sources mentioned above, the census was based upon information gathered from questionnaires.

¹ Landbruksregisteret

² Statens Kornforretning

³ Norsk Institutt for Jord- og Skogkartlegging

⁴ Statens Landbruksforvaltning

Collection of data

Three different questionnaires were prepared for the census. The main questionnaire and the supplementary questionnaire were sent directly to respondents in the middle of July while the greenhouse and horticulture questionnaires were distributed via the municipal agricultural authority. Census date was 31 July 1999.

With its local knowledge, the municipal agricultural authority played an important role in the collection of data. The administration gathered in completed questionnaires and made a rough check of these before they were sent on to Statistics Norway. This was invaluable work that contributed much to the conduction of the census.

The main questionnaire

All holdings (see Scope) obliged to respond were to fill in the main questionnaire. This questionnaire contained questions about ownership, owned and rented area, number of parcels and fields, drainage and reclamation, farm buildings, machinery and equipment, labour input, supplementary industries, etc. The main questionnaire was tested in a pilot survey in the autumn of 1998.

Supplementary questionnaire for holdings that did not apply for production subsidies

Holders who did not apply for production subsidies by 31 July 1999 but were still obliged to respond to the census (see Scope), had to fill in a supplementary questionnaire with questions about the use of agricultural area and the number of farm animals.

Greenhouse and horticulture questionnaire

The greenhouse and horticulture questionnaire was to be completed by all those who fulfilled one or more of the area requirements for cultivation of field vegetables, fruit or berries as well as running of greenhouses or nurseries (see Scope, requirements 2-6).

Control and editing

At Statistics Norway the questionnaires underwent a thorough process of control and editing mainly consisting of the following steps:

- Firstly, every questionnaire was checked manually. If they were found to be lacking information or containing errors, the municipal agricultural authority was contacted by telephone or letter for supplementary information.
- Thereafter questionnaires were read optically and controlled by computer.
- Finally the results were checked at municipal level and compared with figures from the 1989 census, with the assistance of the municipal agricultural authority.

The administrative organ primarily responsible for the system verified the administrative sources that were

used in the census. For example, the municipal agricultural authority and the division for agriculture at the county governors⁵ regularly check the applications for production subsidies. Every year, 5 per cent of the applicants are selected for field control i.e., a person visits the holding to ensure that information given in the application form is correct.

1.3. Terms and variables

Holding

Business activity with agricultural production including livestock and horticulture. The holding comprises everything being operated under a single management, including rented agricultural area, irrespective of municipal boundaries.

The main holding

The part of the holding where the holder lives or where the most important farm building(s) are located.

Holder

Holder is the person considered as having the main responsibility for operating the holding, usually the person who applies for agricultural production subsidies.

Owner

The person(s) who hold(s) the registered deed to the main holding.

Tenant

The person(s) renting/leasing the main holding.

Family members

Relatives in direct ascending or descending lineage and siblings of the holder or spouse/cohabitant.

Agricultural area in use, fully cultivated land, surface-cultivated land and infield pastureland

Agricultural area in use comprises all owned and rented agricultural area in use at the holding, including fields that lie fallow for a year.

Area cultivated for arable crops is area that is cultivated at normal plough depth and can be renewed by ploughing.

Surface-cultivated land is area that is mostly cleared and superficially levelled to enable harvesting by machine.

Infield pasturelands are areas used for pasture or harvested by other means than machines. Different types of grass should cover at least 50 per cent of the area. The area should be bounded by fences unless it has natural boundaries such as rivers, lakes, mountains, etc.

⁵ Fylkesmannens landbruksavdeling

Land rent

Refers to the leasing (tenancy) or renting of additional land.

Parcels of land and fields

Parcel in this context refers to agricultural area that is completely surrounded by land areas belonging to other properties. A parcel is composed of one or more fields.

Field is continuous agricultural area bounded by roads, streams, forests, etc.

Supplementary industry

Business activity using area, buildings and/or machinery belonging to the holding. Furthermore, the business activity should yield income and/or employment for the holder, spouse/cohabitant and/or their family members.

Various terms related to tax return and tax assessment

Gross income is the sum of wages, pensions, entrepreneurial income and return on capital.

Wages comprises salary, fees, payment in kind, taxable sickness benefit and daily cash allowance during unemployment.

Pensions comprises National Insurance Scheme benefits and service pensions.

Entrepreneurial Income is local and non-local income from industry (primary industry and other industries).

Return on capital comprises among others, interest income and dividends received.

Total tax allowances includes among others, basic tax allowance, travel expenses, losses in industry and interest on debt.

General income is gross income minus total tax allowances.

Net property is the sum of real capital and financial capital minus debt.

Real capital is the sum of all real property, fixed assets, forests etc., moveable operating property and other property other than real property.

Financial capital is the sum of bank deposits, parts in unit trust funds, securities registered in the Norwegian Central Securities Depository, other securities, receivables and other assets.

The sum of *assessed tax* comprises all property tax and income tax payable to the municipality, county and state as well as contribution to the National Insurance Scheme.

Personal income includes gross wages and pensions, certain national insurance payments, (sickness benefit, carer's benefit in connection with adoption, daily cash allowances during unemployment). It also covers other remuneration for work outside own industry, remuneration for participatory work in partnership companies and calculated personal income by the partitive model based on active input in industry or for a company. Personal income is the basis for calculating national insurance contributions and surtax.

Pensionable income is the part of personal income (see above) that is used to calculate contributions at medium or high rates to the National Insurance Scheme. It is also the basis for calculating pension points.

Various terms related to the greenhouse and horticulture questionnaire

Investment in greenhouses and other buildings means expenditures to permanent improvements that are capitalised. The investment should be given including investment tax but excluding value-added tax. Maintenance should not be included. Deduction should not be made for any subsidies received in connection with the building. The value of own work was excluded.

Greenhouse is a room one can enter into without having to remove the glass or plastic covering. Rooms with lower ceiling heights were considered as hotbeds and were not to be included. Greenhouses in good condition were included even if they were not in use at the time of census.

Annual square meters of different crops in greenhouses: If one crop growing on the same area produced several yields, that area was only to be counted once. If different crops growing on the same area of land produced crop yields, the total area was to be distributed among the crops according to how long time (days or months) the various crops were cultivated.

Flower production for "*further cultivation*" and "*finished products*": For "*further cultivation*" only plants sold for further cultivation in other market gardens were to be given. As "*finished products*" were to be given all plants that were ready for sale, both those purchased as seedlings from other market gardens and those cultivated in own production.

1.4. Classifications

Most of the tables are classified by county. Oslo has been combined with Akershus. Other variables often used to classify the data are:

- Agricultural area in use at the holding
- Area of grain and oil-seeds at the holding
- Gender of the holder
- Holder's age. Age on 31 July 1999
- Total labour input in hours in agriculture and horticulture at the holding

In the chapter on horticulture, several variables related to horticulture are used.

1.5. Sources of error and uncertainty

The questionnaires were sent directly to respondents. This is the first time a full census has been carried out with hardly any enumerators (interviewers). Conducting a census without enumerators makes great demands on the formulation of questions. Furthermore, the detail level had to be slightly lowered in relation to

previous censuses. Nonetheless, the census experiences were good and the response rate prior to the first reminder was as much as 96 per cent.

The complete censuses are total surveys, meaning they include all those belonging to the group defined as holdings. Sources of error related to a sample, such as bias and sampling error are thereby avoided. Sources of error in a total census may be due to inadequate register basis (frame error), non-response and measurement errors. Measurement errors occur for e.g. when the respondents do not know the exact answer to the question being asked or they may give a wrong answer because they misunderstand the question. Other measurement errors are errors that occur during the process of control and editing and when the questionnaires are electronically read.

During work with the census there was no indication that a considerable number of holdings were left out and there were no systematic measurement errors in the data either.

751 respondents or 1.1 per cent of those obliged to respond did not return the questionnaires for various reasons. Information for these holdings was manually prepared and is based on other data sources (production subsidies forms, previous censuses) and average values for the municipality or county where the holding is located.

Respondents had some difficulties answering certain questions. These were primarily questions about parcels, fields, labour input and "other area". It is difficult to give labour input for a 12-month period and the definition of parcels and fields may have led to misunderstandings. Reliable information about size of "unproductive" areas was lacking for several respondents. The information provided in this regard was therefore very rough. Moreover there was a tendency to exclude the farmyard area, roads, etc. The question about two-wheeled tractors also caused some misunderstandings. In relation to these questions, a substantial amount of work was done to control and gather additional information via the municipal agricultural authorities.

1.6. Use of the tables

Comparison of results with previous censuses

The 1999 figures have been compared with results from previous censuses as far as possible. Changes in the formulation of questions, among other things, sometimes make comparisons difficult. For e.g. this applies to farm buildings.

Censuses up to 1979 included all cultivation of useful plants and all livestock, irrespective of holding size. In previous census publications, many tables were nonetheless limited to comprise holdings operating at least 5 decares of agricultural land. Almost all agricultural

business took place at these holdings whereas holdings operating less than 5 decares generally represented hobby-type production for own household consumption.

From 1989 to 1999 the number of joint operations with cow/goat milk production increased significantly. These holdings were registered without agricultural area in use. Instead, area used for the production of feed and pasturing was registered at holdings of those involved in joint operations. If the 1999 Census had included only holdings operating at least 5 decares of agricultural area, a substantial part of cattle rearing would have been excluded as well as some horticulture holdings. Most of the tables from the 1999 Census therefore include some holdings operating *less than* 5 decares of agricultural area.

With the exception of the chapter on horticulture, figures from previous censuses comprise holdings operating at least 5 decares of agricultural area. It was concluded that a change in the delimitation would be disadvantageous with regard to figures already used and established among users of the statistics. The adjustments would probably have been small.

In comparing results from the 1999 Agricultural Census with previous censuses, one should be aware of the changes in the basis of data. In 1999, information about the use of agricultural area and the number of animals was mostly gathered from applications for production subsidies whereas this information earlier has been given in census questionnaires. Previously the census date did not coincide with the registration date of application for subsidies.

To some extent, rules and regulations for the granting of subsidies may cause applicants to adapt farm operations. During the 1990's there was an increase in area subsidy and subsidy per animal. The requirement of manure spreading area was also introduced. A further requirement is that cattle are to have access to pasture or outdoor area. Subsequently, in most cases it is therefore more profitable to have much area in use and to have many animals at the time of registration.

Holdings

In previous censuses, a holding was limited to agricultural production taking place within one municipality. As from 1999 this delimitation by municipality no longer exists. The previous delimitation created some artificial holdings, e.g., additional rented land in a neighbouring municipality was registered as a separate holding. This also applied to joint pastures or mountain dairy farms located in a municipality that was different from that of the main holding.

Agricultural area and crops

Two conditions refer to the definition of agricultural area:

- In the 1990's it was possible to receive subsidies for unfertilised fenced-in pasture, so-called infield pasturelands. Previously such areas had to be fertilised and were thus referred to as fertilised pasture. In previous censuses (primarily the 1989 Census), fertilised pasture was given together with natural meadows and surface-cultivated meadows. The introduction of infield pasturelands has led to the definition of some new areas as agricultural area. From 1989 to 1999 the area of surface-cultivated meadows and infield pasturelands increased with a total of 418 000 decares. The most important reason for the relatively great increase in area is not the inclusion of unfertilised pasturelands. Rather, increased area subsidies, the requirement of spreading area, etc. have made it more profitable for holders to use much area and include all area in applications, for example.
- In previous censuses, lawns and ornamental gardens were included in agricultural area. For e.g., in the 1989 Agricultural Census, lawns and ornamental gardens constituted 46 000 decares. In the 1999 Agricultural Census, agricultural area does not include lawns and ornamental gardens at the holdings.

Further, it should be noted that in 1999, with the exception of crops in the greenhouse and horticulture questionnaire, area is given in decares without decimals. In previous censuses, area was given in decares with one decimal. Thus areas less than 1 decare are scarcely included in 1999. This is largely reflected in figures related to potatoes, field-grown vegetables, fruit and berries.

In order to avoid problems of comparison with results published from previous censuses, figures from these censuses are not rounded off but are grouped by whole numbers. For example, holdings operating 49,9 decares in 1989 belong to the group 5-49 decares and not the group 50-99 decares.

Livestock

The livestock figures are as on 31 July 1999, with the exception of sheep for which the census date was 1 June or the day they were released for grazing. In previous censuses, census day has been 20 June or 1 June. Postponing the date by 1-2 months hardly affects livestock figures. Adjusting the number of animals in relation to the registration date of application for subsidy is probably of more significance.

Other factors

There was enough space in the main questionnaire to give detailed responses for up to 5 farm buildings and 5 four-wheeled tractors. Those who had more buildings or tractors could not specify them all. Consequently not all buildings and tractors could be specified by different variables in the tables.

Figures for tractors, harvesters, machines and equipment were given with one decimal in the questionnaires. Usual rules for rounding off figures have been used in the tables. As a result, the total county figures or other classifications may not always agree with the total figures for the country.

1.7. More information

Publication on Internet

Statistics prepared by Statistics Norway are published on Internet at: <http://www.ssb.no/> .

Until further notice, statistics and texts published from the 1999 Agricultural Census related to municipalities, counties and the whole country are available at: http://www.ssb.no/jt1999_en/ .

Publications

In the series Official Statistics of Norway a booklet with municipal figures has been previously published for every county. Akershus and Oslo are combined. The booklets are solely in Norwegian language. Furthermore, this overall publication has also been issued in Norwegian language.

Other documentation

A documentation of the census will be published in the Notes series, and will also be available in English.

Special orders/commissioned output

Since the census data is comprehensive, it is impossible to present statistics for every need in one publication. The data are stored at individual level (holding), making it possible to produce "customised" statistics. By contacting Statistics Norway, results of one's own groupings can be produced. However, confidentiality rules regulate how much detailed statistics to be published. For supplementary information please contact the Division for Primary Industry Statistics at Statistics Norway.

2. Ownership and area resources

2.1. Holdings and holders

In the 1999 Agricultural Census there was a total of 70 740 holdings obliged to respond to the census. This is less than half the figure of 1969 and 29 per cent lower than in 1989. 70 011 of the holdings had at least 5 decares of agricultural area in use. Of the 729 holdings operating less than 5 decares, 398 holdings had livestock and were not operating agricultural area. Of these, 379 joint operations had cow or goat dairy production. The 331 holdings operating 1-4 decares of agricultural area were mainly horticulture holdings.

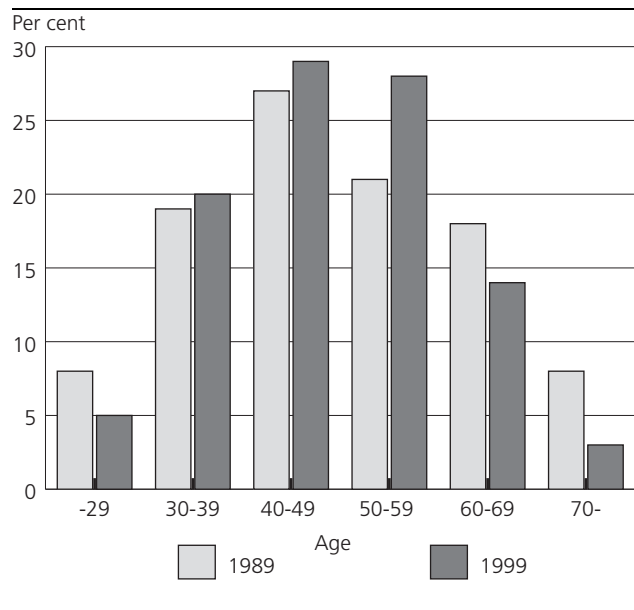
69 959 holdings were run by holders being natural persons, whereas 781 holdings were run by legal persons, e.g. joint operations, limited companies and institutions. Natural person as holder, comprised individuals, married couples and cohabitants if the holding was not registered as a general partnership or such. At holdings with married couples/cohabitants, the holder was the person mainly responsible for the holding, usually the one who applied for the agricultural production subsidies. There were 60 914 male holders and 9 045 female holders. The proportion of female holders increased from 6.4 per cent in 1969, to 9.5 per cent in 1989 to 12.9 per cent in 1999. Previously, a great part of the female holders were widows. For example, only 15 per cent of the female holders were married in 1969. In 1999 the proportion of female holders that were married was 80 per cent, the same as for male holders.

From 1989 to 1999 the average age of holders decreased from 49.3 to 48.0 years. During the same period the percentage of holders in the age group above 60 years decreased by 8 per cent points to 18 per cent, while the proportion of holders aged 50-59 years increased by 6 per cent points, to 28 per cent.

2.2. Ownership

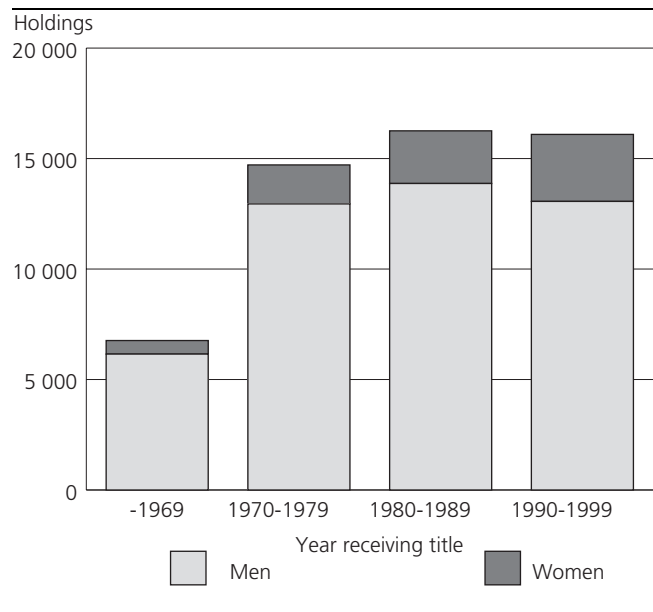
In 1999, 64 139 holdings (main holding) were owned by natural persons, i.e., holder and/or spouse/cohabitant. Of these, 53 824 or 84 per cent had been taken over by persons with allodial rights to the main holding. Takeover by allodial rights is more common at large holdings than at small holdings. For example, the percentage for holdings operating 5-49 decares of agricultural area (including rented land) is 79, versus 88 for holdings operating at least 500 decares of agricultural area.

Figure 2.1. Holders being natural persons as holders, by age. The whole country. 1989 and 1999. Per cent



Among those persons acquired by allodial rights, three out of four had best entitlement to the allodium, whereas one out of four had allodial rights, though not best. The proportion of main holdings being acquired by women has increased. For example, at main holdings where year of takeover was before 1970, 9 per cent was by women. The corresponding figure after 1990 was 19 per cent of female acquirers.

Figure 2.2. Holdings where the holder or spouse/cohabitant had allodial rights to the main holding, by year of receiving title to the main holding and gender of the person having allodial rights. The whole country



Holders who were obliged to report to the census were to state the area of all agricultural properties they owned, both in the municipality where the holding was located and in other municipalities, provided that the properties were part of the holding. In 1999 total area owned by holders and/or spouses/cohabitants, was 63.6 million decares: 7.5 million decares constituted agricultural area, forest area was 28.7 million decares, and other area, 27.4 million decares. In 1989, the Agricultural Census included all agricultural properties irrespective of whether they were being operated as independent holdings or not. The registered total area in 1989 was 205.7 million decares broken-down into 10.8 million decares of agricultural area, 70.4 million decares of productive forest area and 124.5 million decares of other area. The majority of agricultural area in agricultural properties that were not a part of independent holdings in 1999 was found as rented agricultural area (additional land) in other holdings included in the census whereas some areas were unused and not registered.

Otherwise the figures indicate that about 40 per cent of productive forest area belongs to owners who are also involved in farming.

2.3. Rental of agricultural land

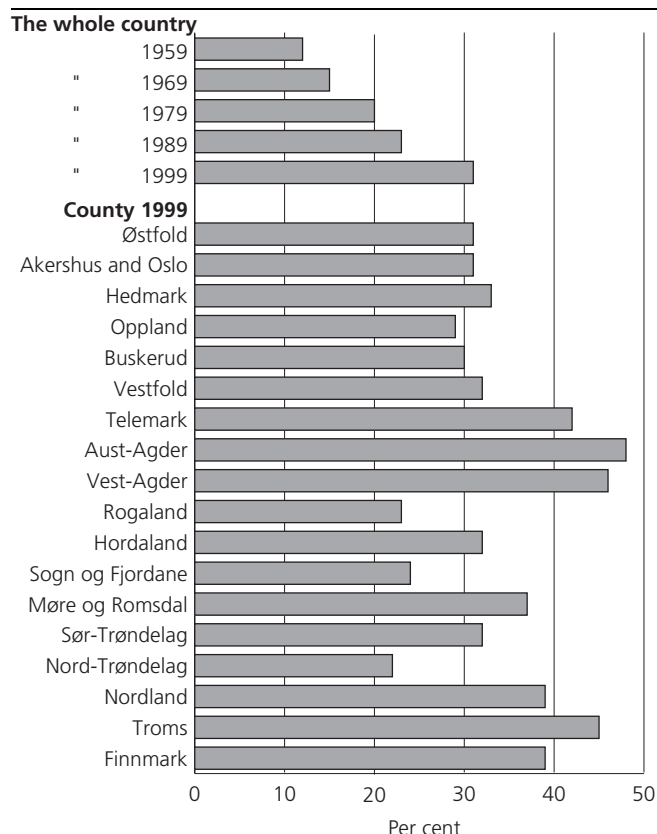
There is an increasing percentage of holdings renting agricultural area. In 1979 this proportion was 31 per cent and as much as 55 per cent in 1999. The proportion of holders leasing or renting the whole holding has been stable at 6 to 8 per cent for the past 40 years.

In 1999, 3.2 million decares or 31 per cent of agricultural area in use was rented land. In 1979 and 1989 this proportion was 20 and 23 per cent respectively. There are great regional variations. In 1999 the proportion of rented land among counties varied from 22 per cent in Nord-Trøndelag and 23 per cent in Rogaland to 46 and 48 per cent in Vest-Agder and Aust-Agder respectively.

2.4. Parcels, fields and driving distance

In the 1999 census it was desirable to acquire information on the structure of parcels and fields the holdings constituted. Parcel refers to an agricultural area that is completely surrounded by area belonging to other properties. Field refers to a continuous agricultural area bordered by roads, streams, forests and such. A holding with many parcels and fields is often more arduous than a holding with few parcels and fields. Generally, renting of additional land increases the number of parcels and fields at the holdings. Use of mountain pastures, for example, illustrates how a holding may comprise several parcels and fields without renting land.

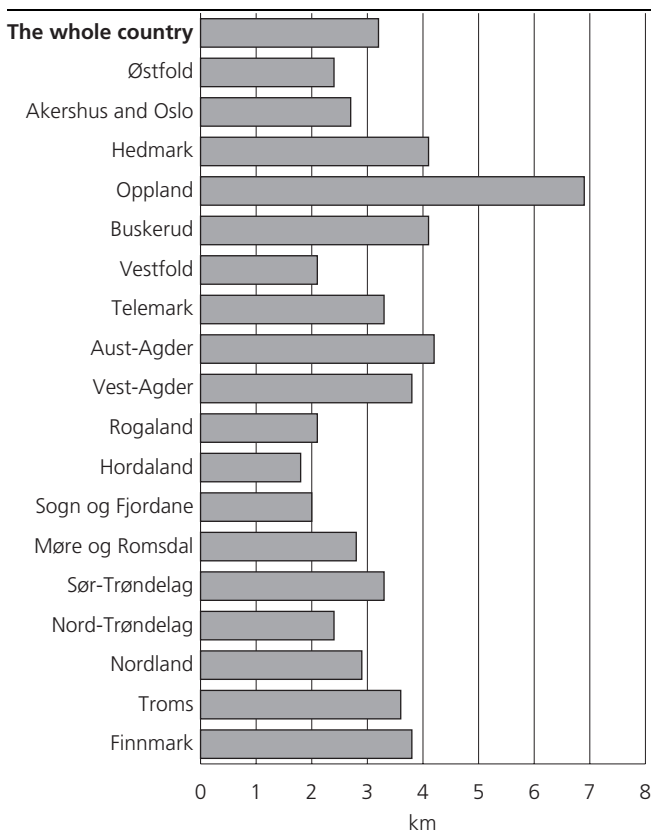
Figure 2.3. Rented agricultural land as per cent of agricultural land in use, by county. 1999



In 1999, average agricultural area per parcel was 47 decares, while average agricultural area per field was 23 decares. 22 300 holdings or barely a third of the holdings comprised one parcel.

In 1999, there were 34 400 holdings, about half of the holdings, where the driving distance to the field (including rented area), located furthest from the farmyard of the main farm, was less than 1.0 km. About a quarter of the holdings had between 1.0 and 2.9 km driving distance, 17 per cent had between 3.0 and 9.9 km and barely 10 per cent had at least 10 km driving distance. Not unexpectedly, land rental is more widespread among holdings with long driving distance, however long driving distance may also be due to other factors. Oppland county has many holdings with long driving distance, however these holdings do not distinguish themselves as having many tenancy agreements. Long driving distances is probably the result of relatively many holdings operating agricultural area in the mountains, for example, with relation to mountain dairy farming.

Figure 2.4. Average driving distance to the field located furthest from farmyard, by county. 1999. km



In addition to fully cultivated area, surface cultivation of agricultural area was also registered as well as clearing of infield pasturelands in the 5-year period of 1994-1998. Clearing of infield pasturelands comprised 37 000 decares while surface cultivated agricultural area comprised barely 5 000 decares. Rogaland is decidedly the largest county as regards cultivation and clearing of pastures, with respectively 17.5 per cent of fully cultivated area and 16 per cent of cleared infield pasturelands in the country.

2.5. Drainage and reclamation

A fourth of the holdings had drained agricultural area in the 5-year period of 1994-98. Altogether 229 000 decares of agricultural area were drained, equivalent to 2.2 per cent of agricultural area in use in 1999. There were great variations among the counties. Relatively, the area least drained was Eastern Norway and southwards, including Aust-Agder. There was slightly more drainage done from Vest-Agder to Sogn og Fjordane, while most drainage was done from Møre og Romsdal northwards. These county variations might be due to subsidies given to certain counties in parts of the period of time referred to here.

In the 1989 census, information on drainage was not gathered as in the 1979 census. In the five-year period at the end of the 70's about 555 000 decares were drained. In the 1970's, subsidies for drainage were awarded in the entire country.

From the 1970's and 80's to the 90's, the extent of reclamation showed a substantial decline. During the 5-year period of 1994-1998, 95 000 decares of agricultural area were fully cultivated, a yearly average of 19 000 decares. In the 70's and 80's the yearly average was approximately 50 000 decares. An important reason for this great decline in cultivation is probably the lapse of subsidies. Another factor could be increased access to land for rent.

2.1. Total number of holdings, holdings by type of holder and holdings owned/rented by the holder¹, by county and various structural classifications

	Number of holdings, total	By type of holder				Ownership of the main holding ^{2,3}	
		Natural person	Legal person			The holder owns the main holding	The holder rents the main holding
			Total	General partnership (joint operations)	Joint-stock company, institution etc.		
1969	154 977	154 493	484	.	.	145 565	9 412
1979	125 302	124 408	894	.	.	114 699	10 603
1989	99 382	98 610	772	.	.	92 322	7 060
1999	70 740	69 959	781	462	319	64 392	5 950
1999							
County							
Østfold	3 604	3 576	28	12	16	3 136	463
Akershus and Oslo	3 484	3 448	36	6	30	3 111	372
Hedmark	5 974	5 917	57	27	30	5 429	523
Oppland	7 054	6 943	111	94	17	6 334	632
Buskerud	3 820	3 799	21	2	19	3 510	310
Vestfold	2 463	2 440	23	3	20	2 233	228
Telemark	2 616	2 594	22	11	11	2 355	252
Aust-Agder	1 258	1 245	13	6	7	1 150	103
Vest-Agder	1 994	1 979	15	6	9	1 785	201
Rogaland	6 189	6 108	81	42	39	5 659	498
Hordaland	5 595	5 535	60	36	24	5 091	471
Sogn og Fjordane	5 295	5 246	49	33	16	4 954	312
Møre og Romsdal	5 018	4 961	57	50	7	4 658	313
Sør-Trøndelag	4 805	4 744	61	39	22	4 381	389
Nord-Trøndelag	5 026	4 942	84	66	18	4 672	296
Nordland	3 833	3 796	37	17	20	3 467	352
Troms	2 054	2 036	18	9	9	1 887	159
Finnmark	658	650	8	3	5	580	76
Agricultural area in use							
0 decares ⁴	398	10	388	376	12	-	-
1 - 4 " ⁵	331	262	69	19	50	279	52
5 - 49 "	13 788	13 697	91	15	76	12 556	1 232
50 - 99 "	16 720	16 672	48	6	42	15 310	1 410
100 - 199 "	22 286	22 228	58	16	42	20 529	1 757
200 - 299 "	10 367	10 331	36	10	26	9 507	860
300 - 499 "	5 273	5 227	46	11	35	4 811	462
500 - "	1 577	1 532	45	9	36	1 400	177
Holders¹ by gender							
Legal persons	781	.	781	462	319	269	124
Males	60 914	60 914	.	.	.	56 007	4 900
Females	9 045	9 045	.	.	.	8 116	926
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	1 784	1 775	9	1	8	1 621	162
100 - 499 "	11 385	11 348	37	7	30	10 278	1 107
500 - 999 "	10 586	10 547	39	10	29	9 536	1 042
1 000 - 1 499 "	8 047	8 010	37	18	19	7 311	725
1 500 - 1 999 "	6 181	6 123	58	26	32	5 599	562
2 000 - 2 999 "	12 122	11 977	145	115	30	11 010	1 006
3 000 - 3 999 "	10 637	10 500	137	110	27	9 836	692
4 000 - "	9 998	9 679	319	175	144	9 201	654

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ²The main holding is the part of the holding where the holder lives and/or the main farm buildings are placed. ³Not comprising holdings without agricultural area in use, mainly joint operations with milk production. ⁴Comprise mainly joint operations with milk production. ⁵Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

2.2. Holdings with natural person as holder¹, by gender and marital status of the holder, county and various structural classifications

	Holdings with natural person as holder, total	Holdings with male holder			Holdings with female holder		
		Total	Holder is married or cohabitant	Holder is single	Total	Holder is married or cohabitant	Holder is single
1969	154 493	144 534	118 912	25 622	9 959	1 496	8 463
1979	124 408	115 375	92 782	22 593	9 033	3 240	5 793
1989	98 610	89 267	71 643	17 624	9 343	5 819	3 524
1999	69 959	60 914	48 541	12 373	9 045	7 305	1 740
1999							
County							
Østfold	3 576	3 154	2 628	526	422	341	81
Akershus and Oslo	3 448	3 047	2 508	539	401	318	83
Hedmark	5 917	5 082	4 075	1 007	835	641	194
Oppland	6 943	6 097	4 745	1 352	846	660	186
Buskerud	3 799	3 280	2 635	645	519	412	107
Vestfold	2 440	2 183	1 793	390	257	221	36
Telemark	2 594	2 176	1 722	454	418	335	83
Aust-Agder	1 245	1 073	878	195	172	139	33
Vest-Agder	1 979	1 734	1 359	375	245	210	35
Rogaland	6 108	5 429	4 419	1 010	679	570	109
Hordaland	5 535	4 796	3 817	979	739	602	137
Sogn og Fjordane	5 246	4 483	3 396	1 087	763	598	165
Møre og Romsdal	4 961	4 279	3 363	916	682	588	94
Sør-Trøndelag	4 744	4 268	3 369	899	476	393	83
Nord-Trøndelag	4 942	4 452	3 605	847	490	389	101
Nordland	3 796	3 194	2 540	654	602	498	104
Troms	2 036	1 676	1 292	384	360	294	66
Finnmark	650	511	397	114	139	96	43
Agricultural area in use							
- 4 decares ²	272	221	180	41	51	35	16
5 - 49 "	13 697	11 321	8 644	2 677	2 376	1 801	575
50 - 99 "	16 672	14 148	10 800	3 348	2 524	2 043	481
100 - 199 "	22 228	19 614	15 650	3 964	2 614	2 185	429
200 - 299 "	10 331	9 368	7 886	1 482	963	807	156
300 - 499 "	5 227	4 803	4 142	661	424	350	74
500 - "	1 532	1 439	1 239	200	93	84	9
Holders¹ by age group							
- 29 years	3 656	2 971	1 443	1 528	685	548	137
30 - 39 "	14 267	11 943	9 212	2 731	2 324	2 061	263
40 - 49 "	20 447	18 142	15 273	2 869	2 305	1 956	349
50 - 59 "	19 276	17 315	14 676	2 639	1 961	1 514	447
60 - 69 "	9 981	8 586	6 893	1 693	1 395	1 079	316
70 - "	2 332	1 957	1 044	913	375	147	228
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	1 775	1 535	1 134	401	240	166	74
100 - 499 "	11 348	9 835	7 579	2 256	1 513	1 182	331
500 - 999 "	10 547	9 019	7 016	2 003	1 528	1 199	329
1 000 - 1 499 "	8 010	6 724	5 281	1 443	1 286	1 029	257
1 500 - 1 999 "	6 123	5 180	3 904	1 276	943	760	183
2 000 - 2 999 "	11 977	10 499	7 987	2 512	1 478	1 214	264
3 000 - 3 999 "	10 500	9 436	7 808	1 628	1 064	896	168
4 000 - "	9 679	8 686	7 832	854	993	859	134

¹Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ²Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

2.3. Holdings with natural person as holder¹, by age of holder, average age of holder, county and various structural classifications

	Holdings with natural person as holder, total	By age of holder						Average age Years
		-29 years	30-39 years	40-49 years	50-59 years	60-69 years	70- years	
1969	155 493	5 385	16 197	33 876	44 923	37 076	17 036	54,0
1979 ²	124 408	7 583	20 169	24 092	31 914	28 053	12 553	51,9
1989 ³	98 610	7 883	18 350	26 155	20 975	17 796	7 430	49,3
1999	69 959	3 656	14 267	20 447	19 276	9 981	2 332	48,0
1999								
County								
Østfold	3 576	165	716	1 105	1 024	456	110	47,9
Akershus and Oslo	3 448	148	669	1 035	994	456	146	48,4
Hedmark	5 917	255	1 197	1 716	1 674	840	235	48,5
Oppland	6 943	405	1 538	2 034	1 826	945	195	47,4
Buskerud	3 799	223	756	1 111	1 031	535	143	48,0
Vestfold	2 440	139	479	780	649	306	87	47,6
Telemark	2 594	123	516	752	700	394	109	48,6
Aust-Agder	1 245	66	244	358	327	208	42	48,5
Vest-Agder	1 979	140	459	501	481	305	93	47,8
Rogaland	6 108	410	1 289	1 748	1 638	815	208	47,4
Hordaland	5 535	279	953	1 613	1 566	899	225	49,1
Sogn og Fjordane	5 246	210	972	1 529	1 421	893	221	49,4
Møre og Romsdal	4 961	223	974	1 456	1 392	754	162	48,5
Sør-Trøndelag	4 744	231	1 088	1 356	1 311	634	124	47,4
Nord-Trøndelag	4 942	287	1 175	1 464	1 371	563	82	46,4
Nordland	3 796	203	738	1 121	1 122	522	90	47,8
Troms	2 036	113	379	587	586	332	39	48,2
Finnmark	650	36	125	181	163	124	21	48,9
Agricultural area in use								
- 4 decares ⁴	272	9	41	70	85	46	21	51,2
5 - 49 "	13 697	572	2 061	3 474	3 751	2 762	1 077	51,4
50 - 99 "	16 672	757	2 999	4 616	4 696	2 876	728	49,4
100 - 199 "	22 228	1 322	4 876	6 610	6 226	2 806	388	46,9
200 - 299 "	10 331	627	2 591	3 389	2 694	946	84	45,4
300 - 499 "	5 227	304	1 299	1 763	1 422	410	29	45,2
500 - "	1 532	65	400	525	402	135	5	45,4
Holders¹ by gender								
Males	60 914	2 971	11 943	18 142	17 315	8 586	1 957	48,2
Females	9 045	685	2 324	2 305	1 961	1 395	375	46,9
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	1 775	88	340	446	463	291	147	50,1
100 - 499 "	11 348	575	2 104	3 270	3 114	1 664	621	49,0
500 - 999 "	10 547	531	1 924	3 040	2 919	1 631	502	49,0
1 000 - 1 499 "	8 010	399	1 540	2 319	2 162	1 271	319	48,7
1 500 - 1 999 "	6 123	350	1 185	1 723	1 637	996	232	48,6
2 000 - 2 999 "	11 977	716	2 589	3 365	3 338	1 686	283	47,4
3 000 - 3 999 "	10 500	558	2 359	3 181	2 955	1 299	148	46,8
4 000 - "	9 679	439	2 226	3 103	2 688	1 143	80	46,7

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ²In 1979 age was not reported for 43 holders. ³In 1989 age was not reported for 21 holders. ⁴Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/ft1999_en/.

2.4. Holdings owned by natural person, by time when holder¹ or spouse/cohabitant received title to the main holding², county and various structural classifications

	Holdings owned by natural person, total	Year receiving title to the main holding							
		-1964	1965-1969	1970-1974	1975-1979	1980-1984	1985-1989	1990-1994	1995-1999
1989	91 764	22 860	8 924	15 693	14 111	15 693	14 483	.	.
1999	64 139	4 552	3 582	8 175	8 473	9 892	9 502	11 137	8 826
1999									
County									
Østfold	3 124	141	133	382	411	503	476	619	459
Akershus and Oslo	3 091	233	149	371	399	473	422	570	474
Hedmark	5 407	377	287	637	672	830	799	992	813
Oppland	6 317	468	380	766	846	936	924	1 067	930
Buskerud	3 494	240	196	403	448	499	542	703	463
Vestfold	2 217	126	91	246	268	360	376	409	341
Telemark	2 349	188	98	300	290	343	380	444	306
Aust-Agder	1 144	83	63	165	135	176	167	189	166
Vest-Agder	1 779	143	83	251	181	239	296	339	247
Rogaland	5 629	440	341	740	734	833	871	938	732
Hordaland	5 074	421	260	734	705	781	743	810	620
Sogn og Fjordane	4 940	462	348	710	667	720	672	834	527
Møre og Romsdal	4 651	352	281	636	617	730	698	803	534
Sør-Trøndelag	4 363	263	248	557	598	711	626	714	646
Nord-Trøndelag	4 656	206	283	614	672	733	659	779	710
Nordland	3 449	229	185	410	492	636	504	532	461
Troms	1 880	135	120	193	257	319	248	296	312
Finnmark	575	45	36	60	81	70	99	99	85
Agricultural area in use									
- 4 decares ³	233	30	11	25	29	34	33	45	24
5 - 49 "	12 502	1 380	724	1 567	1 519	1 801	1 796	1 985	1 730
50 - 99 "	15 284	1 294	814	2 016	2 013	2 368	2 259	2 514	2 006
100 - 199 "	20 498	1 185	1 203	2 620	2 838	3 236	3 054	3 576	2 786
200 - 299 "	9 481	406	515	1 152	1 289	1 521	1 462	1 764	1 372
300 - 499 "	4 777	198	233	608	634	725	717	962	700
500 - "	1 364	59	82	187	151	207	181	291	206
Holders¹ by age group									
- 29 years	2 366	-	-	5	4	15	82	691	1 569
30 - 39 "	12 232	4	14	54	110	899	2 399	4 642	4 110
40 - 49 "	19 102	72	92	1 045	2 684	4 525	4 460	4 047	2 177
50 - 59 "	18 540	650	1 519	4 522	4 220	3 543	2 008	1 361	717
60 - 69 "	9 662	2 544	1 704	2 284	1 323	805	464	323	215
70 - "	2 237	1 282	253	265	132	105	89	73	38
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	1 616	147	78	184	172	227	256	299	253
100 - 499 "	10 256	773	445	1 137	1 205	1 612	1 668	1 848	1 568
500 - 999 "	9 529	755	488	1 160	1 121	1 460	1 512	1 674	1 359
1 000 - 1 499 "	7 297	565	357	924	925	1 126	1 080	1 282	1 038
1 500 - 1 999 "	5 576	446	328	703	747	850	732	997	773
2 000 - 2 999 "	10 979	757	648	1 475	1 543	1 718	1 544	1 829	1 465
3 000 - 3 999 "	9 815	604	641	1 294	1 504	1 535	1 390	1 637	1 210
4 000 - "	9 071	505	597	1 298	1 256	1 364	1 320	1 571	1 160

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ²The main holding is the part of the holding where the holder lives and/or the main farm buildings are placed. ³Comprise mainly holdings in horticulture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_env.

2.5. Holdings where holder¹ or spouse/cohabitant did/did not have allodial rights when receiving title to the main holding², by county and various structural classifications. 1999

	Holdings owned by natural person, total	Neither holder nor spouse/cohabitant had allodial rights	Holder or spouse/cohabitant had allodial rights						
			Total	Best allodial rights			Allodial rights, but not best rights		
				Total	Male	Female	Total	Male	Female
Total	64 139	10 315	53 824	39 218	34 801	4 417	14 606	11 230	3 376
County									
Østfold	3 124	499	2 625	2 059	1 801	258	566	411	155
Akershus and Oslo	3 091	501	2 590	2 034	1 784	250	556	411	145
Hedmark	5 407	1 183	4 224	3 133	2 718	415	1 091	802	289
Oppland	6 317	898	5 419	4 047	3 528	519	1 372	1 041	331
Buskerud	3 494	507	2 987	2 298	1 987	311	689	488	201
Vestfold	2 217	297	1 920	1 463	1 287	176	457	349	108
Telemark	2 349	358	1 991	1 470	1 261	209	521	387	134
Aust-Agder	1 144	160	984	746	667	79	238	183	55
Vest-Agder	1 779	341	1 438	963	855	108	475	379	96
Rogaland	5 629	833	4 796	3 336	3 041	295	1 460	1 169	291
Hordaland	5 074	659	4 415	3 129	2 850	279	1 286	1 027	259
Sogn og Fjordane	4 940	429	4 511	3 215	2 874	341	1 296	1 011	285
Møre og Romsdal	4 651	565	4 086	2 964	2 686	278	1 122	897	225
Sør-Trøndelag	4 363	612	3 751	2 834	2 529	305	917	710	207
Nord-Trøndelag	4 656	697	3 959	2 981	2 637	344	978	725	253
Nordland	3 449	922	2 527	1 583	1 452	131	944	747	197
Troms	1 880	535	1 345	807	709	98	538	420	118
Finnmark	575	319	256	156	135	21	100	73	27
Agricultural area in use									
- 4 decares ³	233	111	122	94	84	10	28	14	14
5 - 49 "	12 502	2 672	9 830	6 968	6 078	890	2 862	2 159	703
50 - 99 "	15 284	2 488	12 796	9 211	8 073	1 138	3 585	2 712	873
100 - 199 "	20 498	2 885	17 613	12 807	11 353	1 454	4 806	3 713	1 093
200 - 299 "	9 481	1 352	8 129	5 965	5 411	554	2 164	1 700	464
300 - 499 "	4 777	638	4 139	3 196	2 904	292	943	758	185
500 - "	1 364	169	1 195	977	898	79	218	174	44
Holders¹ by gender									
Males	56 018	8 528	47 490	35 178	33 275	1 903	12 312	10 558	1 754
Females	8 121	1 787	6 334	4 040	1 526	2 514	2 294	672	1 622
Year receiving title to the main holding²									
- 1964	4 552	856	3 696	2 706	2 513	193	990	878	112
1965 - 1969	3 582	514	3 068	2 312	2 115	197	756	645	111
1970 - 1974	8 175	822	7 353	5 725	5 189	536	1 628	1 334	294
1975 - 1979	8 473	1 114	7 359	5 542	4 982	560	1 817	1 442	375
1980 - 1984	9 892	1 490	8 402	6 156	5 512	644	2 246	1 698	548
1985 - 1989	9 502	1 649	7 853	5 703	5 051	652	2 150	1 611	539
1990 - 1994	11 137	1 970	9 167	6 505	5 671	834	2 662	1 963	699
1995 - 1999	8 826	1 900	6 926	4 569	3 768	801	2 357	1 659	698
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	1 616	440	1 176	841	714	127	335	264	71
100 - 499 "	10 256	1 855	8 401	6 178	5 331	847	2 223	1 657	566
500 - 999 "	9 529	1 723	7 806	5 739	5 015	724	2 067	1 563	504
1 000 - 1 499 "	7 297	1 271	6 026	4 401	3 871	530	1 625	1 209	416
1 500 - 1 999 "	5 576	945	4 631	3 345	2 950	395	1 286	992	294
2 000 - 2 999 "	10 979	1 594	9 385	6 797	6 113	684	2 588	2 046	542
3 000 - 3 999 "	9 815	1 349	8 466	6 093	5 495	598	2 373	1 856	517
4 000 - "	9 071	1 138	7 933	5 824	5 312	512	2 109	1 643	466

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ²The main holding is the part of the holding where the holder lives and/or the main farm buildings are placed. ³Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

2.6. Area owned by holder¹ and/or spouse/cohabitant², by county and various structural classifications. 1999. Decares

	Owned area, total	In the municipality where the main holding is located ³				In other municipalities			
		Total	Agricultural area	Productive forest area	Other land area	Total	Agricultural area	Productive forest area	Other land area
Total	63 556 858	61 664 054	7 405 002	27 581 297	26 677 755	1 892 804	58 312	1 094 643	739 849
County									
Østfold	2 059 098	1 980 504	542 842	1 268 282	169 380	78 594	8 379	60 631	9 584
Akershus and Oslo	2 640 920	2 037 549	580 450	1 318 103	138 996	603 371	14 086	462 883	126 402
Hedmark	7 488 838	7 167 427	752 765	4 160 222	2 254 440	321 411	6 969	220 545	93 897
Oppland	5 568 856	5 473 160	760 237	3 156 322	1 556 601	95 696	6 320	43 820	45 556
Buskerud	4 987 633	4 865 792	379 491	2 586 877	1 899 424	121 841	4 034	73 434	44 373
Vestfold	960 225	942 872	306 638	582 099	54 135	17 353	4 145	12 368	840
Telemark	4 402 397	4 182 006	161 526	1 838 033	2 182 447	220 391	1 762	94 445	124 184
Aust-Agder	2 241 849	2 190 558	66 620	1 063 916	1 060 022	51 291	636	24 155	26 500
Vest-Agder	2 329 160	2 298 748	115 440	902 170	1 281 138	30 412	850	18 622	10 940
Rogaland	4 038 502	3 950 047	772 316	636 115	2 541 616	88 455	2 545	9 149	76 761
Hordaland	2 827 924	2 813 178	330 620	1 050 647	1 431 911	14 746	984	6 805	6 957
Sogn og Fjordane	4 432 640	4 401 733	372 623	1 378 438	2 650 672	30 907	745	8 838	21 324
Møre og Romsdal	3 997 022	3 895 856	409 186	1 267 559	2 219 111	101 166	2 017	18 628	80 521
Sør-Trøndelag	5 328 517	5 263 574	548 896	2 059 620	2 655 058	64 943	1 994	16 157	46 792
Nord-Trøndelag	5 353 986	5 333 675	714 134	2 354 037	2 265 504	20 311	1 627	8 939	9 745
Nordland	3 196 331	3 175 465	367 416	1 194 103	1 613 946	20 866	834	7 634	12 398
Troms	1 581 975	1 571 048	156 931	755 921	658 196	10 927	286	7 590	3 051
Finnmark	120 985	120 862	66 871	8 833	45 158	123	99	-	24
Agricultural area in use									
- 4 decares ⁴	57 395	57 395	5 249	30 558	21 588	-	-	-	-
5 - 49 "	6 658 168	6 534 184	440 829	2 896 687	3 196 668	123 984	837	45 428	77 719
50 - 99 "	13 126 292	12 992 005	1 004 190	5 512 029	6 475 786	134 287	2 841	65 986	65 460
100 - 199 "	22 262 323	21 907 697	2 347 168	9 210 275	10 350 254	354 626	9 943	142 535	202 148
200 - 299 "	11 476 233	11 214 907	1 691 704	5 156 219	4 366 984	261 326	8 867	83 463	168 996
300 - 499 "	6 224 709	6 062 291	1 281 622	3 035 071	1 745 598	162 418	14 363	101 434	46 621
500 - "	3 751 738	2 895 575	634 240	1 740 458	520 877	856 163	21 461	655 797	178 905
Holders¹ by gender									
Legal persons	903 210	833 716	60 161	487 153	286 402	69 494	2 639	42 469	24 386
Males	55 402 428	53 715 338	6 543 332	23 878 962	23 293 044	1 687 090	48 151	991 142	647 797
Females	7 251 220	7 115 000	801 509	3 215 182	3 098 309	136 220	7 522	61 032	67 666
Holders¹ by age group									
Legal persons	903 210	833 716	60 161	487 153	286 402	69 494	2 639	42 469	24 386
- 29 years	2 211 535	2 193 390	271 703	967 316	954 371	18 145	1 311	7 686	9 148
30 - 39 "	12 661 742	12 337 189	1 505 653	5 553 103	5 278 433	324 553	9 667	182 827	132 059
40 - 49 "	19 867 707	18 954 713	2 323 888	8 414 902	8 215 923	912 994	19 113	559 593	334 288
50 - 59 "	18 376 606	18 016 138	2 150 472	8 046 323	7 819 343	360 468	17 696	184 610	158 162
60 - 69 "	8 005 357	7 826 388	932 663	3 481 768	3 411 957	178 969	7 108	109 050	62 811
70 - "	1 530 701	1 502 520	160 462	630 732	711 326	28 181	778	8 408	18 995
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	919 142	903 393	72 176	558 314	272 903	15 749	425	5 764	9 560
100 - 499 "	7 816 834	7 664 635	731 873	4 291 374	2 641 388	152 199	3 329	101 881	46 989
500 - 999 "	7 734 069	7 618 950	828 420	3 814 963	2 975 567	115 119	4 577	73 553	36 989
1 000 - 1 499 "	6 821 440	6 677 812	705 293	3 155 374	2 817 145	143 628	5 739	64 928	72 961
1 500 - 1 999 "	5 683 836	5 550 347	594 498	2 464 835	2 491 014	133 489	6 173	73 545	53 771
2 000 - 2 999 "	12 845 972	12 575 271	1 359 708	5 103 359	6 112 204	270 701	13 332	134 415	122 954
3 000 - 3 999 "	10 983 315	10 682 194	1 445 981	4 271 539	4 964 674	301 121	8 546	138 217	154 358
4 000 - "	10 752 250	9 991 452	1 667 053	3 921 539	4 402 860	760 798	16 191	502 340	242 267

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ² Refer to area belonging to agricultural properties owned by holder and/or spouse/cohabitant and included in the holding reporting to this census. ³ The main holding is the part of the holding where the holder lives and/or the main farm buildings are placed. ⁴ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

2.7. Holdings which rent agricultural area and size of rented area, by county and various structural classifications

	Holdings, total	Holdings without rented agricultural area ¹	Holdings which rent agricultural area				Rented agricultural area		Proportion of agricultural area in use which is rented
			Total	Rent the whole area	Rent 50-99 % of the area	Rent less than 50 % of the area	Total	Per holding with rented area	
							Decares	Per cent	
1959	198 315	171 572	26 743	14 060	2 644	10 039	1 207 130	45	12
1969	154 977	122 147	32 830	9 412	4 766	18 652	1 402 046	43	15
1979	125 302	86 401	38 901	10 120	6 428	22 353	1 939 937	50	20
1989	99 382	60 614	38 768	7 071	7 549	24 148	2 318 239	60	23
1999	70 740	31 994	38 746	5 748	9 543	23 455	3 238 588	84	31
1999									
County									
Østfold	3 604	1 973	1 631	445	336	850	239 585	147	31
Akershus and Oslo	3 484	1 801	1 683	365	402	916	251 197	149	31
Hedmark	5 974	2 516	3 458	505	901	2 052	358 184	104	33
Oppland	7 054	3 304	3 750	610	798	2 342	297 521	79	29
Buskerud	3 820	1 899	1 921	298	442	1 181	155 533	81	30
Vestfold	2 463	1 350	1 113	224	279	610	140 408	126	32
Telemark	2 616	1 247	1 369	251	483	635	108 601	79	42
Aust-Agder	1 258	441	817	99	340	378	57 737	71	48
Vest-Agder	1 994	702	1 292	187	442	663	92 290	71	46
Rogaland	6 189	3 283	2 906	478	533	1 895	222 377	77	23
Hordaland	5 595	2 671	2 924	447	678	1 799	148 550	51	32
Sogn og Fjordane	5 295	2 741	2 554	303	460	1 791	114 886	45	24
Møre og Romsdal	5 018	1 764	3 254	296	947	2 011	226 019	69	37
Sør-Trøndelag	4 805	1 995	2 810	376	616	1 818	243 263	87	32
Nord-Trøndelag	5 026	2 462	2 564	288	365	1 911	193 541	75	22
Nordland	3 833	1 102	2 731	347	824	1 560	225 788	83	39
Troms	2 054	531	1 523	156	586	781	121 786	80	45
Finnmark	658	212	446	73	111	262	41 322	93	39
Agricultural area in use									
- 4 decares ²	729	669	60	57	1	2	279	5	44
5 - 49 "	13 788	10 180	3 608	1 223	648	1 737	69 725	19	17
50 - 99 "	16 720	9 044	7 676	1 375	1 712	4 589	274 243	36	23
100 - 199 "	22 286	7 765	14 521	1 697	3 410	9 414	933 671	64	29
200 - 299 "	10 367	2 655	7 712	808	2 079	4 825	832 147	108	33
300 - 499 "	5 273	1 348	3 925	427	1 214	2 284	678 311	173	35
500 - "	1 577	333	1 244	161	479	604	450 212	362	42
Holders³ by age group									
Legal persons	781	572	209	124	23	62	31 338	150	37
- 29 years	3 656	1 076	2 580	1 264	443	873	314 328	122	55
30 - 39 "	14 267	5 180	9 087	1 969	2 239	4 879	914 845	101	39
40 - 49 "	20 447	8 556	11 891	1 287	3 154	7 450	979 865	82	30
50 - 59 "	19 276	9 137	10 139	703	2 552	6 884	718 189	71	26
60 - 69 "	9 981	5 651	4 330	307	1 027	2 996	260 106	60	23
70 - "	2 332	1 822	510	94	105	311	19 917	39	12
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	1 784	1 433	351	161	58	132	11 474	33	17
100 - 499 "	11 385	7 858	3 527	1 095	686	1 746	187 267	53	22
500 - 999 "	10 586	6 096	4 490	1 030	1 096	2 364	276 154	62	26
1 000 - 1 499 "	8 047	3 907	4 140	707	1 123	2 310	279 231	67	29
1 500 - 1 999 "	6 181	2 614	3 567	536	1 010	2 021	278 440	78	33
2 000 - 2 999 "	12 122	4 155	7 967	951	2 063	4 953	685 334	86	34
3 000 - 3 999 "	10 637	3 162	7 475	656	1 697	5 122	677 176	91	32
4 000 - "	9 998	2 769	7 229	612	1 810	4 807	843 512	117	34

¹ Include 398 holdings without agricultural area in use in 1999, mainly joint operations with milk production. ² Comprise mainly joint operations with milk production and holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1959, Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

2.8. Holdings which rent agricultural area and size of rented area, by type of contract, county and various structural classifications

	Holdings by type of contract					Rented agricultural area by type of contract			
	Holdings which rent agricultural area, total	With a written contract for all rented area			Both with and without a written contract	Without any written contract	Written contract of 1-4 years	Written contract of 5 years or more	
		With all rented area without any written contract	Contracts of 1-4 years only	Contracts of 5 years or more only					Both contracts of 1-4 years and 5 years or more
1979	38 901	25 734		¹ 9 987	3 180	1 040 581	¹ 899 356		
1989	38 768	19 811		¹ 12 959	5 998	978 921	¹ 1 339 319		
1999	38 746	18 157	3 562	7 542	872	8 613	1 455 769	657 364 1 125 455	
1999									
County									
Østfold	1 631	660	352	298	55	266	77 750	86 067	75 768
Akershus and Oslo	1 683	674	304	314	60	331	78 162	79 657	93 378
Hedmark	3 458	1 316	427	755	121	839	121 647	105 591	130 946
Oppland	3 750	1 719	357	793	95	786	125 050	60 674	111 797
Buskerud	1 921	1 033	201	276	29	382	78 556	33 702	43 275
Vestfold	1 113	453	184	185	33	258	55 740	41 259	43 409
Telemark	1 369	724	103	188	23	331	61 215	18 547	28 839
Aust-Agder	817	500	44	69	14	190	38 175	8 987	10 575
Vest-Agder	1 292	729	59	125	12	367	59 739	10 392	22 159
Rogaland	2 906	1 225	423	748	68	442	84 814	48 905	88 658
Hordaland	2 924	1 664	145	568	54	493	84 010	15 407	49 133
Sogn og Fjordane	2 554	1 369	165	570	48	402	62 205	12 887	39 794
Møre og Romsdal	3 254	1 801	127	500	48	778	133 375	23 185	69 459
Sør-Trøndelag	2 810	1 212	201	624	59	714	110 123	36 618	96 522
Nord-Trøndelag	2 564	1 047	275	700	66	476	74 342	36 910	82 289
Nordland	2 731	1 108	103	524	50	946	118 408	21 224	86 156
Troms	1 523	672	67	237	31	516	66 451	12 885	42 450
Finnmark	446	251	25	68	6	96	26 007	4 467	10 848
Agricultural area in use									
- 4 decares ²	60	48	2	10	-	-	105	5	169
5 - 49 "	3 608	2 507	288	600	19	194	45 629	8 416	15 680
50 - 99 "	7 676	4 650	603	1 385	68	970	166 349	33 912	73 982
100 - 199 "	14 521	6 732	1 187	3 042	329	3 231	475 809	139 714	318 148
200 - 299 "	7 712	2 735	718	1 557	225	2 477	370 393	143 785	317 969
300 - 499 "	3 925	1 233	523	714	136	1 319	275 676	163 317	239 318
500 - "	1 244	252	241	234	95	422	121 808	168 215	160 189
Holders³ by age group									
Legal persons	209	68	24	72	9	36	9 316	5 756	16 266
- 29 years	2 580	899	311	606	79	685	115 822	69 905	128 601
30 - 39 "	9 087	3 564	930	1 913	274	2 406	361 259	210 403	343 183
40 - 49 "	11 891	5 410	1 055	2 358	285	2 783	452 866	195 875	331 124
50 - 59 "	10 139	5 239	860	1 841	175	2 024	363 025	128 071	227 093
60 - 69 "	4 330	2 600	345	700	50	635	139 273	44 640	76 193
70 - "	510	377	37	52	-	44	14 208	2 714	2 995
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	351	222	40	68	2	19	6 779	1 828	2 867
100 - 499 "	3 527	2 122	419	596	52	338	95 311	41 332	50 624
500 - 999 "	4 490	2 583	478	764	66	599	138 428	59 697	78 029
1 000 - 1 499 "	4 140	2 267	380	685	62	746	137 382	63 167	78 682
1 500 - 1 999 "	3 567	1 826	337	639	68	697	127 964	57 977	92 499
2 000 - 2 999 "	7 967	3 551	677	1 538	194	2 007	310 421	131 420	243 493
3 000 - 3 999 "	7 475	2 985	597	1 621	200	2 072	300 331	123 133	253 712
4 000 - "	7 229	2 601	634	1 631	228	2 135	339 153	178 810	325 549

¹ In 1979 and 1989 the contract periods were not reported. ² Comprise mainly holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

2.9. Holdings with payment for rented agricultural area and size of rented area by average paid rent per decaire, by county and various structural classifications

	Holdings which paid rent	Area with paid rent Decares	Renting amount, total (VAT not included) NOK 1 000	Average paid rent per decaire being paid for NOK/decaire	Area being paid for by average paid rent in NOK per decaire (VAT not included)				
					1-74	75-149	150-224	225-299	300-
1989	24 675	1 592 164	204 236	128	552 201	500 098	314 094	135 512	90 259
1999	26 419	2 270 455	361 805	159	588 075	646 281	482 428	292 470	260 341
1999									
County									
Østfold	1 457	220 682	51 051	231	7 996	25 414	70 941	72 267	44 004
Akershus and Oslo	1 460	226 983	44 420	196	15 366	49 682	89 046	46 640	26 232
Hedmark	2 612	283 080	53 206	188	54 309	69 400	61 157	47 244	50 970
Oppland	2 847	224 485	33 162	148	52 879	88 413	47 185	17 965	18 018
Buskerud	1 455	121 196	20 073	166	16 330	42 723	38 501	13 605	10 037
Vestfold	985	126 408	32 290	255	3 646	15 540	35 347	35 550	36 325
Telemark	873	71 144	9 093	128	19 387	29 154	15 197	4 917	2 489
Aust-Agder	467	31 881	4 086	128	10 603	12 703	4 548	1 767	2 220
Vest-Agder	867	58 573	5 890	101	24 346	24 894	5 587	1 761	1 954
Rogaland	2 292	174 122	37 888	218	29 017	47 218	28 787	22 304	46 560
Hordaland	1 282	65 864	7 095	108	26 896	24 859	8 036	2 829	3 144
Sogn og Fjordane	1 376	59 520	6 044	102	25 265	22 391	8 071	1 874	1 847
Møre og Romsdal	1 797	111 845	9 015	81	63 585	35 753	9 005	1 176	2 267
Sør-Trøndelag	2 094	166 274	17 729	107	63 505	68 538	24 129	5 407	4 670
Nord-Trøndelag	2 022	150 594	21 581	143	29 993	64 933	32 532	14 932	8 141
Nordland	1 586	112 525	6 053	54	92 104	14 407	3 266	1 589	1 092
Troms	721	48 226	1 960	41	42 951	4 444	259	241	266
Finnmark	226	17 053	1 169	69	9 897	5 815	834	402	105
Agricultural area in use									
- 4 decares ¹	18	204	263	:	5	137	21	4	37
5 - 49 "	1 158	22 482	2 884	128	7 633	8 755	3 193	1 020	1 850
50 - 99 "	3 761	123 334	15 322	125	46 960	40 790	20 526	5 930	8 804
100 - 199 "	10 302	579 477	73 982	128	197 438	204 474	102 056	35 885	39 199
200 - 299 "	6 461	591 864	81 097	137	198 639	184 889	106 715	50 514	51 027
300 - 499 "	3 527	543 850	93 916	173	107 070	144 592	143 954	85 294	62 940
500 - "	1 192	409 244	94 341	231	30 330	62 644	105 963	113 823	96 484
Holders² by age group									
Legal persons	148	21 148	4 013	190	4 127	5 274	3 292	5 730	2 725
- 29 years	1 788	207 026	36 078	174	44 015	57 788	47 053	25 628	32 377
30 - 39 "	6 543	648 938	107 267	165	154 984	187 763	135 858	90 344	79 743
40 - 49 "	8 215	698 315	112 376	161	175 297	196 068	155 337	93 181	78 185
50 - 59 "	6 838	508 007	76 116	150	149 003	145 750	101 724	57 749	53 614
60 - 69 "	2 639	175 986	24 715	140	55 829	49 666	37 789	19 365	13 302
70 - "	248	11 035	1 239	112	4 820	3 972	1 375	473	395
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	149	5 562	822	148	1 581	1 978	1 134	471	398
100 - 499 "	1 996	122 165	19 312	158	21 341	39 358	37 694	14 826	8 886
500 - 999 "	2 525	186 507	30 245	162	31 904	55 184	56 355	28 945	13 983
1 000 - 1 499 "	2 377	183 272	28 945	158	39 840	53 527	47 250	26 272	16 273
1 500 - 1 999 "	2 202	188 400	30 867	164	44 075	50 304	43 536	32 617	17 868
2 000 - 2 999 "	5 578	463 223	71 169	154	131 025	128 802	91 688	62 996	48 303
3 000 - 3 999 "	5 745	477 012	68 822	144	153 372	142 102	84 702	44 930	51 801
4 000 - "	5 847	644 314	111 624	173	164 937	175 026	120 069	81 413	102 829

¹ Comprise mainly holdings in horticulture. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

2.10. Holdings by the number of parcels¹ and fields² the agricultural area is divided into, by county and various structural classifications. 1999

	Holdings by number of parcels			Average agricultural area per parcel Decares	Holdings by number of fields				Average agricultural area per field Decares
	1	2-4	5-		1-2	3-4	5-7	8-	
Total	22 260	33 190	14 892	47,1	13 012	17 233	18 615	21 482	22,8
County									
Østfold	1 594	1 569	436	88,4	794	1 013	958	834	38,1
Akershus and Oslo	1 449	1 475	559	88,4	830	971	841	841	40,8
Hedmark	1 753	2 578	1 621	51,9	1 219	1 335	1 451	1 947	27,4
Oppland	1 643	3 666	1 657	44,9	1 296	1 830	2 087	1 753	25,6
Buskerud	1 442	1 707	671	48,8	934	1 070	976	840	25,3
Vestfold	1 048	1 049	364	67,7	546	666	658	591	30,0
Telemark	1 053	1 072	482	35,5	665	722	630	590	17,8
Aust-Agder	287	525	441	22,0	180	251	305	517	11,7
Vest-Agder	382	825	779	21,8	223	373	465	925	11,3
Rogaland	2 300	3 119	738	62,6	1 140	1 752	1 831	1 434	28,2
Hordaland	1 984	2 746	832	31,7	1 244	1 475	1 453	1 390	14,6
Sogn og Fjordane	1 808	2 790	668	35,2	1 162	1 518	1 413	1 173	17,0
Møre og Romsdal	1 187	2 421	1 363	35,0	662	1 016	1 267	2 026	16,8
Sør-Trøndelag	1 273	2 334	1 163	47,8	656	1 083	1 350	1 681	23,0
Nord-Trøndelag	1 699	2 556	713	67,1	694	1 081	1 439	1 754	26,3
Nordland	841	1 612	1 366	35,1	414	599	864	1 942	16,2
Troms	380	866	800	29,3	246	337	481	982	14,9
Finnmark	137	280	239	36,1	107	141	146	262	21,1
Agricultural area in use									
- 4 decares ³	319	12	-	1,9	322	6	3	-	1,7
5 - 49 "	8 589	4 895	304	18,7	6 765	4 506	2 019	498	9,8
50 - 99 "	6 174	8 912	1 634	30,4	3 479	5 696	5 000	2 545	15,0
100 - 199 "	4 585	11 840	5 861	41,7	1 813	4 843	7 261	8 369	20,3
200 - 299 "	1 580	4 743	4 044	54,6	436	1 421	2 770	5 740	25,8
300 - 499 "	806	2 207	2 260	74,9	171	637	1 277	3 188	34,8
500 - "	207	581	789	120,6	26	124	285	1 142	53,5
Holders⁴ by age group									
Legal persons	203	131	59	84,5	148	58	52	135	33,6
- 29 years	1 035	1 763	858	46,6	554	828	976	1 298	22,2
30 - 39 "	3 785	6 797	3 684	47,7	1 958	2 985	3 895	5 428	22,4
40 - 49 "	5 919	9 676	4 850	47,5	3 191	4 721	5 549	6 984	22,8
50 - 59 "	6 157	9 215	3 897	47,3	3 578	4 913	5 227	5 551	23,2
60 - 69 "	3 819	4 740	1 422	44,4	2 569	2 979	2 515	1 918	22,7
70 - "	1 342	868	122	39,0	1 014	749	401	168	20,2
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	1 268	488	27	26,6	1 023	503	191	66	14,0
100 - 499 "	6 245	4 561	579	39,3	4 220	3 836	2 394	935	19,4
500 - 999 "	4 543	4 943	1 092	43,0	2 804	3 383	2 768	1 623	21,1
1 000 - 1 499 "	2 700	4 047	1 289	42,9	1 514	2 414	2 281	1 827	21,3
1 500 - 1 999 "	1 713	3 146	1 302	44,2	958	1 550	1 860	1 793	21,9
2 000 - 2 999 "	2 485	6 102	3 429	45,2	1 152	2 497	3 571	4 796	22,3
3 000 - 3 999 "	1 714	5 303	3 511	49,7	654	1 753	3 049	5 072	23,5
4 000 - "	1 592	4 600	3 663	57,2	687	1 297	2 501	5 370	26,6

¹Parcel means agricultural areas that are completely surrounded by land belonging to other properties. ²Field means continuous agricultural areas bounded by roads, streams, forest etc. ³Comprise mainly holdings in horticulture. ⁴Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

2.11. Holdings by driving distance from farmyard of the main holding¹ to the field² located furthest away, by county and various structural classifications. 1999

	Holdings with agricultural area in use, total	By driving distance in km								Average driving distance to the field located furthest away km
		0.0	0.1-0.4	0.5-0.9	1.0-1.9	2.0-2.9	3.0-4.9	5.0-9.9	10.0-	
Total	70 342	7 481	13 577	12 944	11 851	5 887	5 755	6 112	6 735	3,2
County										
Østfold	3 599	479	866	860	605	189	198	180	222	2,4
Akershus and Oslo	3 483	558	719	710	603	241	214	203	235	2,7
Hedmark	5 952	819	1 017	851	731	423	527	762	822	4,1
Oppland	6 966	603	949	886	811	418	499	879	1 921	6,9
Buskerud	3 820	570	834	626	445	212	222	334	577	4,1
Vestfold	2 461	320	588	587	433	149	151	121	112	2,1
Telemark	2 607	331	687	417	300	198	184	236	254	3,3
Aust-Agder	1 253	83	265	212	191	129	96	127	150	4,2
Vest-Agder	1 986	120	373	288	317	200	197	257	234	3,8
Rogaland	6 157	641	1 286	1 366	1 320	512	444	318	270	2,1
Hordaland	5 562	771	1 235	1 240	971	434	389	320	202	1,8
Sogn og Fjordane	5 266	603	1 239	978	936	490	416	404	200	2,0
Møre og Romsdal	4 971	387	944	863	932	567	537	452	289	2,8
Sør-Trøndelag	4 770	363	723	877	919	469	467	464	488	3,3
Nord-Trøndelag	4 968	401	844	1 112	1 122	502	409	344	234	2,4
Nordland	3 819	244	602	687	769	454	431	366	266	2,9
Troms	2 046	139	318	285	339	232	284	253	196	3,6
Finnmark	656	49	88	99	107	68	90	92	63	3,8
Agricultural area in use										
- 4 decares ³	331	297	29	5	-	-	-	-	-	0,0
5 - 49 "	13 788	4 265	4 427	2 171	1 262	469	398	402	394	1,1
50 - 99 "	16 720	1 761	4 426	3 620	2 556	1 147	1 022	1 077	1 111	2,4
100 - 199 "	22 286	872	3 319	4 436	4 365	2 236	2 239	2 348	2 471	3,8
200 - 299 "	10 367	211	916	1 769	2 179	1 179	1 226	1 322	1 565	4,8
300 - 499 "	5 273	64	390	776	1 156	647	657	734	849	5,3
500 - "	1 577	11	70	167	333	209	213	229	345	7,1
Holders⁴ by age group										
Legal persons	393	126	59	54	46	32	33	15	28	2,7
- 29 years	3 656	305	595	591	626	301	357	409	472	4,1
30 - 39 "	14 266	1 102	2 194	2 471	2 488	1 302	1 381	1 513	1 815	4,1
40 - 49 "	20 445	1 760	3 762	3 764	3 536	1 888	1 815	1 916	2 004	3,4
50 - 59 "	19 269	2 072	3 920	3 714	3 349	1 581	1 465	1 528	1 640	3,0
60 - 69 "	9 981	1 489	2 372	1 940	1 542	698	611	648	681	2,4
70 - "	2 332	627	675	410	264	85	93	83	95	1,5
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	1 783	676	563	247	125	55	42	37	38	0,9
100 - 499 "	11 385	2 558	3 487	2 230	1 347	507	416	401	439	1,6
500 - 999 "	10 578	1 573	2 797	2 216	1 613	651	563	592	573	2,0
1 000 - 1 499 "	8 036	839	1 786	1 637	1 350	630	575	593	626	2,8
1 500 - 1 999 "	6 161	512	1 222	1 189	1 071	476	518	528	645	3,4
2 000 - 2 999 "	12 016	575	1 703	2 146	2 312	1 209	1 233	1 377	1 461	4,1
3 000 - 3 999 "	10 528	328	1 147	1 806	2 073	1 198	1 226	1 315	1 435	4,5
4 000 - "	9 855	420	872	1 473	1 960	1 161	1 182	1 269	1 518	4,9

¹The main holding is the part of the holding where the holder lives and/or the main farm buildings are placed. ²Field means continuous agricultural areas bounded by roads, streams, forest etc. ³Comprise mainly holdings in horticulture. ⁴Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

2.12. Holdings with ditching of agricultural area during the period 1994-1998 and size of agricultural area being ditched, by county and various structural classifications

	Holdings with ditching, total	Holdings by size of ditched area in decares			Proportion of holdings which ditched	Agricultural area being ditched	Ditched area as proportion of agricultural area in use in 1999
		1-24	25-49	50-				Per cent	Decares	Per cent
Total	17 636	15 305	1 705	626	25,1	228 704	2,2
County							
Østfold	422	314	74	34	11,7	8 582	1,1
Akershus and Oslo	503	325	99	79	14,4	12 556	1,5
Hedmark	1 187	988	126	73	19,9	19 049	1,8
Oppland	1 702	1 518	136	48	24,4	19 720	1,9
Buskerud	659	586	49	24	17,3	8 284	1,6
Vestfold	335	279	40	16	13,6	5 188	1,2
Telemark	354	328	23	3	13,6	3 492	1,3
Aust-Agder	262	249	11	2	20,9	2 321	1,9
Vest-Agder	500	474	20	6	25,2	4 498	2,2
Rogaland	1 728	1 531	152	45	28,1	20 894	2,2
Hordaland	1 436	1 392	36	8	25,8	10 464	2,2
Sogn og Fjordane	1 292	1 246	38	8	24,5	9 627	2,0
Møre og Romsdal	1 586	1 418	127	41	31,9	18 115	2,9
Sør-Trøndelag	1 660	1 422	173	65	34,8	22 892	3,0
Nord-Trøndelag	1 949	1 601	284	64	39,2	27 870	3,1
Nordland	1 317	1 042	218	57	34,5	21 892	3,8
Troms	621	513	73	35	30,4	10 146	3,7
Finnmark	123	79	26	18	18,8	3 114	3,0
Agricultural area in use							
- 4 decares ¹	3	3	.	.	0,9	6	0,9
5 - 49 "	1 664	1 645	19	.	12,1	9 763	2,3
50 - 99 "	3 241	3 103	119	19	19,4	26 373	2,2
100 - 199 "	6 469	5 830	525	114	29,0	73 876	2,3
200 - 299 "	3 707	3 032	514	161	35,8	57 373	2,3
300 - 499 "	1 940	1 366	384	190	36,8	41 401	2,1
500 - "	612	326	144	142	38,8	19 912	1,8
Holders² by age group							
Legal persons	84	62	9	13	21,4	1 760	2,1
- 29 years	1 020	869	109	42	27,9	14 156	2,5
30 - 39 "	4 452	3 798	488	166	31,2	60 457	2,5
40 - 49 "	5 539	4 752	573	214	27,1	74 749	2,3
50 - 59 "	4 450	3 939	377	134	23,1	54 183	1,9
60 - 69 "	1 844	1 651	142	51	18,5	21 072	1,8
70 - "	247	234	7	6	10,6	2 327	1,4
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	172	164	7	1	9,6	1 384	2,0
100 - 499 "	1 461	1 363	78	20	12,8	13 659	1,6
500 - 999 "	1 731	1 558	122	51	16,4	19 074	1,8
1 000 - 1 499 "	1 672	1 512	114	46	20,8	18 513	1,9
1 500 - 1 999 "	1 482	1 325	116	41	24,1	17 217	2,0
2 000 - 2 999 "	3 487	3 058	320	109	29,0	43 670	2,2
3 000 - 3 999 "	3 692	3 175	383	134	35,1	50 459	2,4
4 000 - "	3 939	3 150	565	224	40,0	64 728	2,6

¹Comprise mainly holdings in horticulture. ²Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

2.13. Holdings with reclamation of agricultural area or clearing of other infield pastureland during the period 1994-1998 and the size of area reclaimed or cleared, by county and various structural classifications

	Holdings with reclamation and/or clearing, total	Proportion of holdings with reclamation and/or clearing	Number of holdings			Reclaimed and cleared area		
			Which cultivated land	Which surface-cultivated land	Which cleared other infield pastureland	Cultivated land	Surface-cultivated land	Cleared other infield pastureland
		Per cent				Decares		
Total	9 268	13,2	7 296	573	2 406	95 153	4 743	36 919
County								
Østfold	115	3,2	94	6	18	1 152	89	296
Akershus and Oslo	160	4,6	123	7	33	2 555	71	618
Hedmark	525	8,8	439	25	85	7 369	539	1 541
Oppland	802	11,5	610	41	229	7 964	412	4 019
Buskerud	389	10,2	279	17	136	2 855	164	2 579
Vestfold	96	3,9	84	10	13	1 058	112	219
Telemark	295	11,3	208	22	94	2 416	177	1 520
Aust-Agder	151	12,1	106	9	46	1 160	92	537
Vest-Agder	375	18,9	296	47	90	3 791	325	1 686
Rogaland	1 457	23,7	1 219	35	363	16 688	255	5 912
Hordaland	806	14,5	533	101	313	4 228	562	3 174
Sogn og Fjordane	982	18,6	714	86	351	5 533	410	4 700
Møre og Romsdal	736	14,8	532	50	246	5 364	310	3 371
Sør-Trøndelag	502	10,5	413	22	104	5 587	188	1 773
Nord-Trøndelag	539	10,8	435	35	105	6 872	449	1 580
Nordland	806	21,1	716	45	116	11 592	436	2 260
Troms	390	19,1	358	11	54	5 979	68	943
Finnmark	142	21,6	137	4	10	2 990	84	191
Agricultural area in use								
- 4 decares ¹	1	0,3	1	-	-	1	-	-
5 - 49 "	755	5,5	548	85	175	3 141	298	1 096
50 - 99 "	1 693	10,1	1 259	107	490	10 360	566	4 554
100 - 199 "	3 599	16,1	2 831	224	999	32 742	1 769	13 784
200 - 299 "	2 017	19,5	1 636	104	496	25 587	1 176	9 930
300 - 499 "	981	18,6	835	43	205	17 830	759	6 173
500 - "	222	14,1	186	10	41	5 492	175	1 382
Holders² by age group								
Legal persons	36	9,2	28	4	7	418	70	90
- 29 years	599	16,4	482	33	152	6 797	335	2 278
30 - 39 "	2 448	17,2	1 913	172	684	27 195	1 418	11 070
40 - 49 "	3 054	14,9	2 394	176	815	31 853	1 475	12 933
50 - 59 "	2 183	11,3	1 716	141	538	20 589	1 081	7 792
60 - 69 "	854	8,6	685	41	193	7 548	320	2 621
70 - "	94	4,0	78	6	17	753	44	135
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	41	2,3	38	1	3	298	2	16
100 - 499 "	460	4,0	374	40	66	3 424	201	752
500 - 999 "	760	7,2	551	67	203	5 279	414	2 099
1 000 - 1 499 "	813	10,1	583	65	259	6 012	463	3 218
1 500 - 1 999 "	779	12,6	574	62	243	6 681	421	3 523
2 000 - 2 999 "	1 953	16,3	1 520	96	539	18 276	724	8 244
3 000 - 3 999 "	2 215	21,0	1 776	128	579	25 066	1 277	9 485
4 000 - "	2 247	22,8	1 880	114	514	30 117	1 241	9 582

¹Comprise mainly holdings in horticulture. ²Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

2.14. Reclaimed agricultural area and cleared other infield pastureland undertaken during the period 1994-1998, by type of land being reclaimed or cleared, county and various structural classifications

	Reclaimed agricultural area and cleared other infield pastureland, total	By type of area being reclaimed or cleared					Reclaimed and cleared agricultural land as proportion of all agricultural area in use in 1999
		Productive forest	Mineral soil (heather, shrubs etc.)	Bogs	Surface-cultivated land that was cultivated	Other infield pastureland that was cultivated or surface-cultivated	
	Decares						Per cent
Total	136 815	25 749	59 516	24 601	11 279	15 670	1,3
County							
Østfold	1 537	621	477	106	96	237	0,2
Akershus and Oslo	3 244	1 520	1 165	153	157	249	0,4
Hedmark	9 449	4 200	3 113	1 079	474	583	0,9
Oppland	12 395	2 987	6 184	1 063	871	1 290	1,2
Buskerud	5 598	1 226	2 887	538	321	626	1,1
Vestfold	1 389	621	506	39	134	89	0,3
Telemark	4 113	874	1 924	436	585	294	1,6
Aust-Agder	1 789	487	699	415	92	96	1,5
Vest-Agder	5 802	1 013	2 241	1 801	434	313	2,9
Rogaland	22 855	1 140	9 287	4 462	1 609	6 357	2,4
Hordaland	7 964	737	3 960	1 546	882	839	1,7
Sogn og Fjordane	10 643	988	5 430	1 405	1 429	1 391	2,2
Møre og Romsdal	9 045	878	4 936	1 813	680	738	1,5
Sør-Trøndelag	7 548	1 383	3 847	1 266	491	561	1,0
Nord-Trøndelag	8 901	3 175	3 476	1 054	627	569	1,0
Nordland	14 288	1 518	5 485	5 401	1 126	758	2,5
Troms	6 990	1 965	2 431	1 091	1 002	501	2,6
Finnmark	3 265	416	1 468	933	269	179	3,1
Agricultural area in use							
- 4 decares ¹	1	1	-	-	-	-	0,2
5 - 49 "	4 535	406	1 883	593	963	690	1,1
50 - 99 "	15 480	1 986	7 084	2 596	2 210	1 604	1,3
100 - 199 "	48 295	7 665	22 218	8 718	3 926	5 768	1,5
200 - 299 "	36 693	7 130	15 991	6 877	2 356	4 339	1,5
300 - 499 "	24 762	5 657	10 088	4 945	1 453	2 619	1,3
500 - "	7 049	2 904	2 252	872	371	650	0,7
Holdings² by age group							
Legal persons	578	54	220	69	65	170	0,7
- 29 years	9 410	1 475	3 530	1 792	1 044	1 569	1,6
30 - 39 "	39 683	8 169	16 594	6 798	3 265	4 857	1,7
40 - 49 "	46 261	9 798	20 000	8 019	3 370	5 074	1,4
50 - 59 "	29 462	4 578	13 719	5 732	2 556	2 877	1,1
60 - 69 "	10 489	1 477	5 091	2 028	868	1 025	0,9
70 - "	932	198	362	163	111	98	0,6
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	316	108	79	17	84	28	0,5
100 - 499 "	4 377	618	1 888	568	690	613	0,5
500 - 999 "	7 792	1 314	3 182	1 402	950	944	0,7
1 000 - 1 499 "	9 693	2 199	4 357	1 195	968	974	1,0
1 500 - 1 999 "	10 625	1 987	4 971	1 876	1 001	790	1,2
2 000 - 2 999 "	27 244	4 780	12 181	5 202	2 408	2 673	1,3
3 000 - 3 999 "	35 828	6 172	16 370	6 610	2 514	4 162	1,7
4 000 - "	40 940	8 571	16 488	7 731	2 664	5 486	1,6

¹Comprise mainly holdings in horticulture. ²Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

2.15. Holdings which during the period 1994-1998 put agricultural area that had been unused for at least 2 years back into production and size of such land, by type of land, county and various structural classifications

	Holdings which put agricultural area back into production	Number of holdings by type of area being put back into production			Area put back into production			
		Cultivated land	Surface-cultivated land	Other infield pastureland	Total	Cultivated land	Surface-cultivated land	Other infield pastureland
Decares								
Total	3 853	2 930	493	968	73 948	47 610	5 846	20 492
County								
Østfold	95	47	21	29	1 622	431	345	846
Akershus and Oslo	139	88	20	47	4 597	2 456	473	1 668
Hedmark	208	164	20	40	3 195	2 099	270	826
Oppland	228	163	19	67	3 725	2 237	176	1 312
Buskerud	177	123	20	53	3 025	1 593	212	1 220
Vestfold	58	43	6	11	831	517	56	258
Telemark	177	123	35	51	3 265	1 930	398	937
Aust-Agder	91	77	8	14	1 192	957	80	155
Vest-Agder	134	101	26	34	1 986	1 195	241	550
Rogaland	173	101	14	83	3 007	1 164	103	1 740
Hordaland	259	168	76	103	3 756	1 589	590	1 577
Sogn og Fjordane	197	130	45	71	3 005	1 371	364	1 270
Møre og Romsdal	330	240	39	105	6 166	3 948	348	1 870
Sør-Trøndelag	291	247	29	54	5 564	3 856	371	1 337
Nord-Trøndelag	335	261	30	68	6 459	4 171	653	1 635
Nordland	507	444	54	84	11 446	8 730	779	1 937
Troms	371	334	30	47	8 726	7 273	373	1 080
Finnmark	83	76	1	7	2 381	2 093	14	274
Agricultural area in use								
- 4 decares ¹	1	1	-	-	2	2	-	-
5 - 49 "	536	415	108	113	5 441	3 829	764	848
50 - 99 "	816	618	120	212	11 906	8 022	1 034	2 850
100 - 199 "	1 287	997	130	315	23 918	15 683	1 647	6 588
200 - 299 "	739	564	75	191	16 949	10 811	1 049	5 089
300 - 499 "	387	277	50	108	12 182	7 314	1 198	3 670
500 - "	87	58	10	29	3 550	1 949	154	1 447
Holders² by age group								
Legal persons	18	13	5	4	525	352	77	96
- 29 years	297	237	35	78	6 961	4 739	532	1 690
30 - 39 "	1 160	877	143	307	22 815	14 831	1 517	6 467
40 - 49 "	1 195	884	181	304	22 508	13 924	2 035	6 549
50 - 59 "	877	675	104	205	15 550	9 859	1 434	4 257
60 - 69 "	281	225	22	65	5 174	3 577	237	1 360
70 - "	25	19	3	5	415	328	14	73
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	44	38	4	5	637	460	75	102
100 - 499 "	377	308	62	60	5 433	3 856	726	851
500 - 999 "	493	363	68	143	7 594	4 693	566	2 335
1 000 - 1 499 "	493	369	80	134	8 296	5 158	772	2 366
1 500 - 1 999 "	420	307	61	129	8 466	5 195	652	2 619
2 000 - 2 999 "	755	575	97	188	15 307	9 651	1 276	4 380
3 000 - 3 999 "	633	472	55	168	14 439	9 542	770	4 127
4 000 - "	638	498	66	141	13 776	9 055	1 009	3 712

¹Comprise mainly holdings in horticulture. ²Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

3. Agriculture

The 1999 Agricultural Census mainly comprises holdings with at least 5 decares of agricultural area in use. In addition, the census includes holdings with less than 5 decares of agricultural area on condition that they had livestock and/or horticulture area above certain limits. The table below shows agricultural area and its use at holdings operating 1-4 decares of agricultural area. "Other area" here mostly refers to greenhouse area. Areas with greenhouses, field-grown vegetables, fruit, berries and nurseries will be discussed in more detail in the chapter on horticulture.

Holdings with 1-4 decares of agricultural area. Holdings with various crops and area of the crops

	Number of holdings	Area in decares
Total	331	641
Grain and oil-seed crops	1	4
Potatoes	8	12
Root crops, green forage and silage crops and grain for silage	1	1
Field-grown vegetables	7	17
Fruit	18	52
Berries	26	65
Meadows and infield pasture-lands	5	9
Other area	281	481

Further discussion and the tables in this chapter are limited to holdings operating at least 5 decares of agricultural area.

3.1. Holdings

In 1999, there was a total of 70 011 holdings operating at least 5 decares of agricultural area. Average agricultural area per holding increased from 100 decares in 1989 to 148 decares in 1999. Average size varied from 85 decares in Hordaland county to 235 decares in Akershus and Oslo.

The number of holdings with less than 50 decares of agricultural area has been declining in every census since 1949. From 1989 to 1999, this figure fell by 63 per cent. These holdings operate a continuously decreasing proportion of agricultural area. In 1989 and 1999 this proportion was respectively 9 and 4 per cent of total area in use. There are variations among the counties; for example, in 1999 this area constituted 1.6 per cent in Akershus and Oslo while it was 10.5 per cent in Aust-Agder.

The number of holdings with 50-99 decares of agricultural area remained stable until the beginning of the 1970's but has shown much decline in subsequent years. From 1989 till 1999 this group was reduced by one third. In the area group 100-199 decares, the number of holdings decreased by 3 000, or 12 per cent,

during the last decade. The 1990's is the first decade to show a decline for this group.

On the contrary, holdings operating at least 200 decares increased by over 5 000 in the past decade, and these holdings represented almost 25 per cent of all holdings in 1999, versus 12 per cent in 1989. Holdings with at least 200 decares had altogether 53 per cent of agricultural area in use in 1999.

Figure 3.1. Average agricultural area per holding and number of holdings. The whole country. 1949, 1959, 1969, 1979, 1989 and 1999

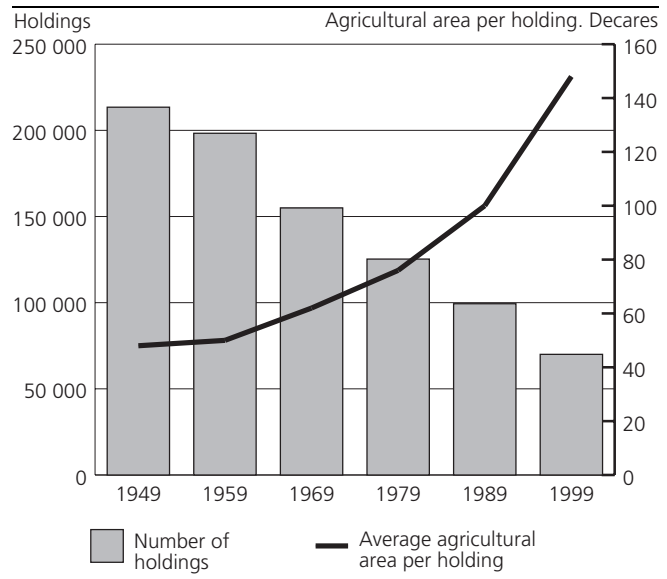


Figure 3.2. Average agricultural area per holding, by county. 1989 and 1999. Decares

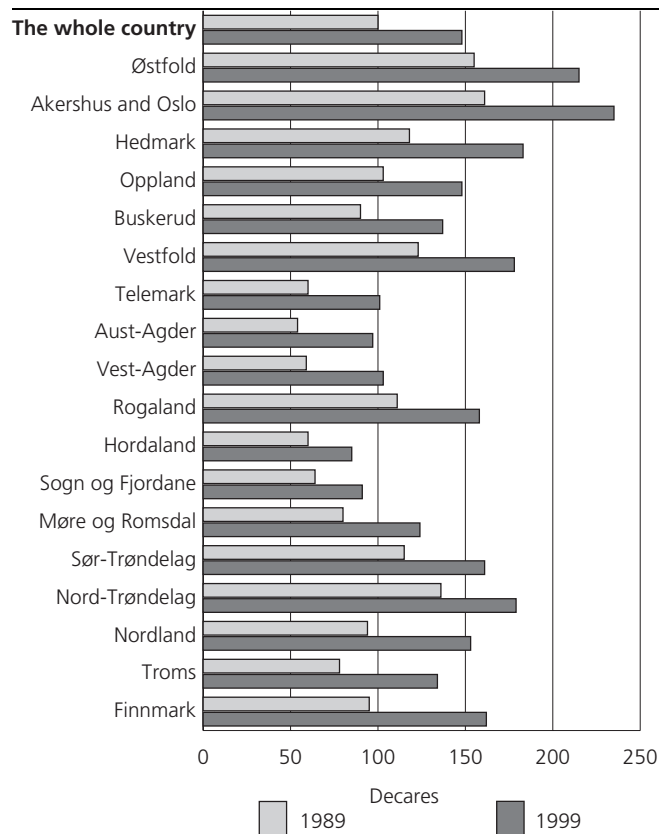
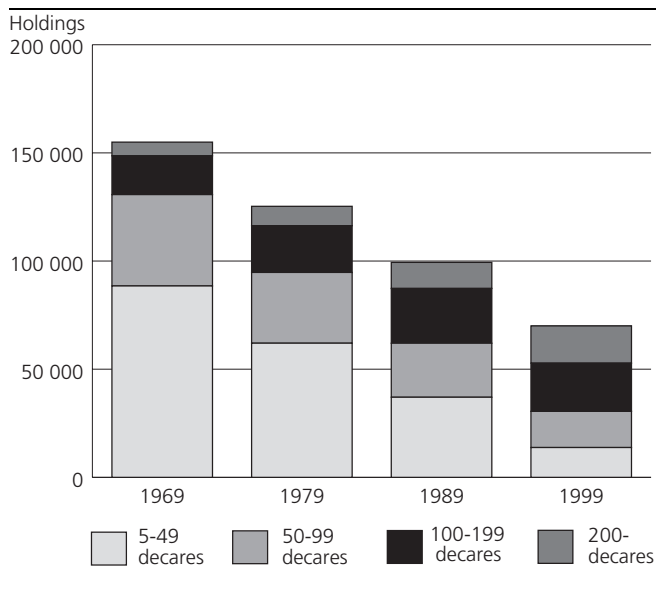


Figure 3.3. Holdings, by size of agricultural area in use. The whole country. 1969, 1979, 1989 and 1999



3.2. Agricultural area

In Norway there was barely 10.4 mill decares of agricultural area in use in 1999, an increase of 71 000 decares or barely 5 per cent since 1989.

When comparing results from the 1999 census with previous censuses, one should be aware of changes in the basis of data. This is discussed in more detail in chapter 1.6 "Use of the tables". Nonetheless here are some factors that are significant in assessing agricultural area and individual crops:

- Information on the use of agricultural area is mainly retrieved from applications for agricultural production subsidies. The rules and regulations for the subsidies will, to a certain degree, influence how the applicants adapt operation of the holding. Area subsidies per decare increased during the 1990's. New requirements that had to be met were; spreading area for animal manure and cattle are to have access to pasture or free outdoor area. In most cases it is, as a result, more profitable to have much area in use at the time of registration.

Two conditions apply to the definition of agricultural area:

- In the 1990's it was possible to receive subsidies for unfertilised fenced-in pasturing area, so-called infield pasturelands. Previously the requirement was for these areas to be fertilised, and they were thus called fertilised pasture. In previous censuses, fertilised pasture was given together with natural meadows and surface-cultivated meadows. The introduction of infield pasturelands created some new agricultural areas. Altogether the area of surface-

cultivated meadows and infield pasturelands increased by 418 000 decares from 1989 till 1999. The most important reason for the relatively great increase is not the inclusion of unfertilised pasturelands but increased area subsidies which have made it profitable for holders to utilise much area and include all area in applications, etc.

- In previous censuses, lawns and ornamental gardens were to be included in agricultural area. For example, lawns and ornamental gardens constituted 46 000 decares in the 1989 Agricultural Census. In the 1999 Agricultural Census, agricultural area is exclusive of lawns and ornamental gardens at the holdings.

Further it should be noted that in 1999, area is not given in decares with one decimal as in previous censuses. Crops with area less than 1 decare are therefore hardly counted in 1999. This is largely reflected in figures for potatoes, field-grown vegetables, fruit and berries and particularly in the number of holdings with these crops.

3.3. Crops

The percentage of holdings with grain and oil-seeds was reduced from 33 in 1989 to 31 per cent in 1999 while the area with such crops decreased by 5 per cent. The area with oats decreased from 1 322 000 decares to 913 000 decares, or by 31 per cent. There was an increase in the area with other types of grain while oil-seeds constituted just about as much area in 1999 as in 1989.

Figure 3.4. Agricultural area in use, by kind of crop. The whole country. 1969, 1979, 1989 and 1999. 1 000 decares

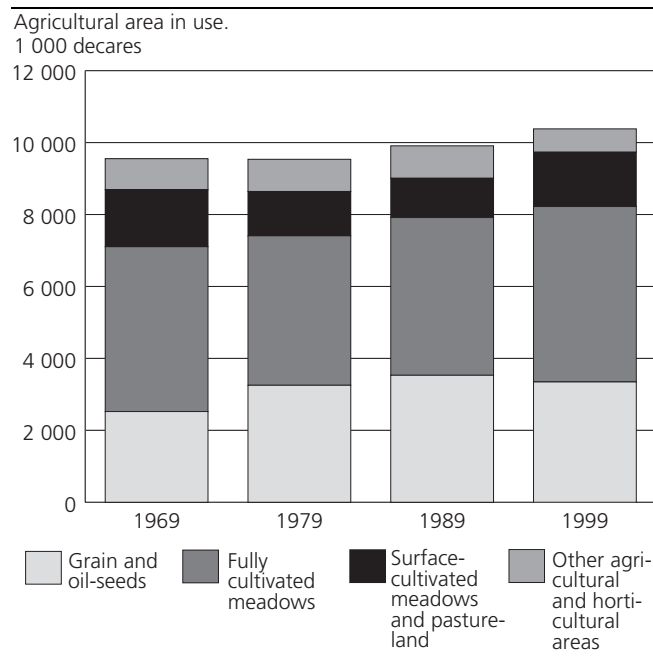
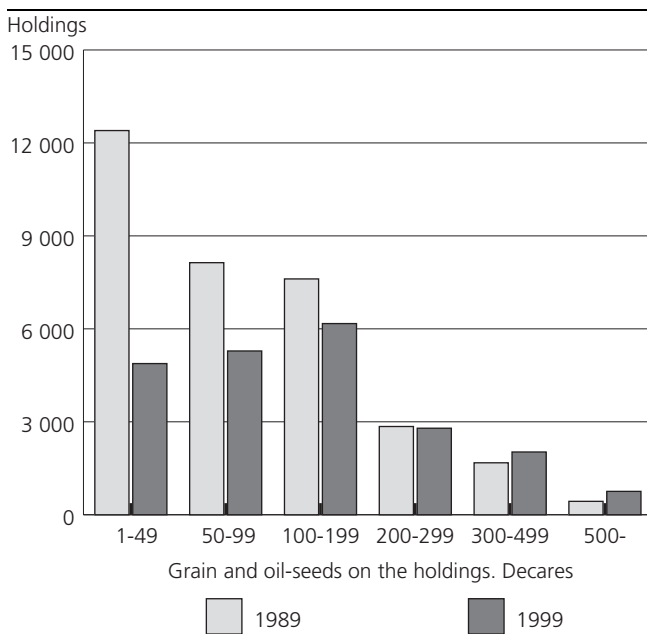


Figure 3.5. Holdings with grain and oil-seeds, by size of area with grain and oil-seeds. The whole country. 1989 and 1999



The average amount of nitrogen per decare from commercial fertiliser for fully-cultivated meadows and grain and oil-seeds increased simultaneously with the area size of the crops concerned. The same applies to the amount of phosphorus though this is not as much.

From 1998 all holdings were required to have a fertiliser plan, and there is therefore reason to believe that the use of commercial fertiliser has become more systematic.

The percentage of holdings with fully-cultivated meadows increased from 71 per cent in 1989 to 79 per cent in 1999. The area of fully-cultivated meadows, increased simultaneously by 11 per cent. Of the total area of meadows and pasture in 1999, fully-cultivated meadows constituted 76 per cent. A considerable part of the area of fully-cultivated meadows has not been ploughed for a long time. The 1999 figures illustrate that 21.5 per cent of fully-cultivated meadows are 10 years or older. 51 per cent of fully-cultivated meadows is less than 5 years old.

3.4. Use of nitrogen and phosphorus from commercial fertilisers

From 1988 till 1998, the average amount of nitrogen from commercial fertilisers for grain and oil-seeds increased from 10.6 to 11.1 kg per decare. In the same period, use of nitrogen in fully-cultivated meadows decreased from 13.9 to 13.5 kg per decare. In 1998, use of nitrogen in fully-cultivated meadows varied from in average 9.5 kg per decare in Troms, to 17.4 kg per decare in Rogaland.

Since 1988, the use of phosphorus has declined. This decline has been greatest for fully-cultivated meadows and slightly less for grain and oil-seeds. The use of phosphorus decreased at the end of the 1980's and at the beginning of the 1990's. Use of phosphorus is generally higher in counties of Eastern Norway than in other counties in the country.

3.1. Holdings¹ by size of agricultural area in use, county and various structural classifications

	Holdings with agricultural area in use, total	Holdings by agricultural area in use in decares					
		5-49	50-99	100-199	200-299	300-499	500-
1949	213 441	150 130	42 526	15 597		4 809	379
1959	198 315	135 830	42 126	15 074		4 870	415
1969	154 977	88 481	42 240	17 938	3 922	1 900	496
1979	125 302	62 017	32 716	21 632	5 652	2 576	709
1989	99 382	37 031	24 969	25 330	7 928	3 266	858
1999	70 011	13 788	16 720	22 286	10 367	5 273	1 577
1999							
County							
Østfold	3 581	408	605	1 056	669	577	266
Akershus and Oslo	3 459	475	595	854	540	639	356
Hedmark	5 935	1 141	1 214	1 629	952	642	357
Oppland	6 958	1 152	1 637	2 482	1 106	453	128
Buskerud	3 803	792	1 037	1 181	472	254	67
Vestfold	2 442	289	531	849	420	260	93
Telemark	2 595	798	885	614	190	90	18
Aust-Agder	1 246	416	392	319	83	30	6
Vest-Agder	1 975	653	557	509	181	71	4
Rogaland	6 116	972	1 140	2 168	1 226	542	68
Hordaland	5 527	1 977	1 788	1 433	271	54	4
Sogn og Fjordane	5 244	1 421	1 824	1 760	208	30	1
Møre og Romsdal	4 952	1 062	1 243	1 774	686	170	17
Sør-Trøndelag	4 753	570	939	1 816	1 005	379	44
Nord-Trøndelag	4 944	515	834	1 806	1 131	560	98
Nordland	3 795	615	828	1 229	770	327	26
Troms	2 034	398	532	642	330	122	10
Finnmark	652	134	139	165	127	73	14
Owned agricultural area							
4 decares	5 680	1 225	1 369	1 696	805	423	162
5 - 49 "	16 031	11 137	3 199	1 390	217	73	15
50 - 99 "	19 570	1 127	11 407	5 694	1 062	241	39
100 - 199 "	19 516	260	690	13 190	4 145	1 091	140
200 - 299 "	5 862	26	38	268	4 011	1 312	207
300 - 499 "	2 713	11	13	43	124	2 091	431
500 - "	639	2	4	5	3	42	583
Holders² by gender							
Legal persons	324	91	48	58	36	46	45
Males	60 693	11 321	14 148	19 614	9 368	4 803	1 439
Females	8 994	2 376	2 524	2 614	963	424	93
Holders² by age group							
Legal persons	324	91	48	58	36	46	45
- 29 years	3 647	572	757	1 322	627	304	65
30 - 39 "	14 226	2 061	2 999	4 876	2 591	1 299	400
40 - 49 "	20 377	3 474	4 616	6 610	3 389	1 763	525
50 - 59 "	19 191	3 751	4 696	6 226	2 694	1 422	402
60 - 69 "	9 935	2 762	2 876	2 806	946	410	135
70 - "	2 311	1 077	728	388	84	29	5
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	1 781	1 331	358	83	4	5	-
100 - 499 "	11 353	4 665	3 972	2 258	343	108	7
500 - 999 "	10 551	3 587	3 137	2 581	862	336	48
1 000 - 1 499 "	8 011	1 886	2 801	1 957	802	473	92
1 500 - 1 999 "	6 132	971	2 006	1 976	579	453	147
2 000 - 2 999 "	11 976	790	2 634	5 403	1 940	875	334
3 000 - 3 999 "	10 483	248	1 152	4 814	2 872	1 137	260
4 000 - "	9 724	310	660	3 214	2 965	1 886	689

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1949, Census of Agriculture 1959, Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

3.2. Agricultural area in use, by size of holdings, average agricultural area in use per holding¹, county and various structural classifications. Decares

	Agricultural area in use	By agricultural area in use in decares per holding						Average agricultural area in use per holding
		5-49	50-99	100-199	200-299	300-499	500-	
1949	10 263 547	3 549 038	2 961 910	2 139 156	1 348 677	264 766	48,1	
1959	9 844 796	3 263 585	2 891 413	2 040 448	1 356 359	292 991	49,6	
1969	9 553 335	2 245 350	2 916 550	2 412 994	931 638	696 680	61,6	
1979	9 535 278	1 512 892	2 287 551	2 963 904	1 338 061	943 249	76,1	
1989	9 910 773	930 710	1 774 754	3 551 927	1 877 552	1 196 192	99,7	
1999	10 381 825	415 749	1 212 458	3 222 171	2 497 287	1 949 961	148,3	
1999								
County								
Østfold	771 306	12 106	44 783	153 585	161 472	217 986	181 374	215,4
Akershus and Oslo	814 038	12 994	43 482	124 714	132 026	244 770	256 052	235,3
Hedmark	1 086 224	33 707	87 076	236 508	230 705	242 194	256 034	183,0
Oppland	1 028 008	35 036	120 330	358 568	266 398	165 932	81 744	147,7
Buskerud	522 201	24 658	74 969	168 528	113 610	95 452	44 984	137,3
Vestfold	435 638	8 386	38 696	120 618	102 265	96 975	68 698	178,4
Telemark	261 871	25 156	63 034	83 533	45 685	33 100	11 363	100,9
Aust-Agder	120 356	12 666	27 530	45 486	19 822	10 869	3 983	96,6
Vest-Agder	202 733	19 450	40 031	72 615	43 026	25 220	2 391	102,6
Rogaland	968 186	28 178	83 547	321 005	295 575	196 652	43 229	158,3
Hordaland	471 053	58 498	126 116	200 264	64 096	19 542	2 537	85,2
Sogn og Fjordane	476 631	43 848	132 777	240 503	48 223	10 737	543	90,9
Møre og Romsdal	615 770	32 714	90 275	257 409	162 966	61 398	11 008	124,3
Sør-Trøndelag	764 684	17 620	68 995	268 752	242 011	138 058	29 248	160,9
Nord-Trøndelag	884 962	15 178	62 158	271 739	271 713	203 884	60 290	179,0
Nordland	579 491	19 082	59 761	181 199	186 075	116 686	16 688	152,7
Troms	273 170	12 342	39 164	92 502	80 051	43 612	5 499	134,3
Finmark	105 503	4 130	9 734	24 643	31 568	26 894	8 534	161,8
Owned agricultural area								
4 decares	844 899	36 604	98 556	243 929	193 992	157 081	114 737	148,7
5 - 49 "	829 633	333 967	221 836	186 182	50 965	26 993	9 690	51,8
50 - 99 "	2 015 661	36 656	833 181	783 419	251 435	86 624	24 346	103,0
100 - 199 "	3 483 824	7 555	54 724	1 956 965	984 175	392 112	88 293	178,5
200 - 299 "	1 639 589	684	2 835	44 607	983 653	473 979	133 831	279,7
300 - 499 "	1 118 704	226	1 041	6 388	32 339	794 826	283 884	412,3
500 - "	449 515	57	285	681	728	18 346	429 418	703,5
Holders² by gender								
Legal persons	84 403	2 087	3 379	8 537	8 829	18 228	43 343	260,5
Males	9 227 927	341 570	1 027 508	2 844 827	2 258 246	1 776 838	978 938	152,0
Females	1 069 495	72 092	181 571	368 807	230 212	154 895	61 918	118,9
Holders² by age group								
Legal persons	84 403	2 087	3 379	8 537	8 829	18 228	43 343	260,5
- 29 years	572 619	17 047	56 128	192 687	150 596	111 992	44 169	157,0
30 - 39 "	2 371 077	62 949	219 934	713 959	626 098	480 416	267 721	166,7
40 - 49 "	3 229 306	106 548	336 549	958 740	816 134	650 365	360 970	158,5
50 - 59 "	2 800 024	114 525	339 258	899 218	649 972	528 565	268 486	145,9
60 - 69 "	1 158 087	83 318	206 380	396 346	226 145	150 004	95 894	116,6
70 - "	166 309	29 275	50 830	52 684	19 513	10 391	3 616	72,0
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	69 544	33 390	23 084	10 222	1 028	1 820	-	39,0
100 - 499 "	841 586	137 149	277 890	303 571	80 084	38 506	4 386	74,1
500 - 999 "	1 052 578	109 902	221 353	363 729	205 226	123 341	29 027	99,8
1 000 - 1 499 "	955 004	61 492	198 848	269 219	193 241	175 277	56 927	119,2
1 500 - 1 999 "	855 581	31 850	146 611	274 840	139 223	172 685	90 372	139,5
2 000 - 2 999 "	2 018 074	26 652	201 963	778 321	463 096	324 730	223 312	168,5
3 000 - 3 999 "	2 103 702	7 883	90 867	724 769	691 621	413 199	175 363	200,7
4 000 - "	2 485 756	7 431	51 842	497 500	723 768	700 403	504 812	255,6

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1949, Census of Agriculture 1959, Census of Agriculture and Forestry 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/t1999_en/.

3.3. Holdings¹ cultivating various crops, by county and various structural classifications

	Holdings		Grain and oil-seeds	Potatoes	Roots for feed, green fodder and silage crops	Field-grown vegetables	Fruit trees	Berries	Meadows and other infield pastureland
	Total	Of which with area cultivated for arable crops							
1969	154 977	153 032	50 099	123 362	43 099	² 25 587	..	..	143 872
1979	125 302	123 806	39 532	87 397	26 192	26 433	..	..	102 331
1989	99 382	98 067	33 103	38 158	22 387	6 516	13 530	5 833	74 546
1999	70 011	69 674	21 908	10 252	13 138	2 116	1 840	2 130	55 999
1999									
County									
Østfold	3 581	3 570	3 317	420	322	171	18	97	1 281
Akershus and Oslo	3 459	3 444	2 972	279	347	71	32	98	1 412
Hedmark	5 935	5 917	3 495	1 065	1 204	171	39	127	3 459
Oppland	6 958	6 939	2 059	1 138	2 337	123	38	94	6 109
Buskerud	3 803	3 789	2 027	407	508	154	168	136	2 329
Vestfold	2 442	2 437	2 155	403	200	321	87	122	826
Telemark	2 595	2 574	1 086	251	228	69	205	95	1 854
Aust-Agder	1 246	1 239	221	216	124	90	46	55	1 112
Vest-Agder	1 975	1 969	142	209	226	51	48	72	1 898
Rogaland	6 116	6 092	661	797	1 762	277	138	99	5 891
Hordaland	5 527	5 456	21	359	395	65	491	153	5 248
Sogn og Fjordane	5 244	5 208	25	614	347	71	482	393	5 109
Møre og Romsdal	4 952	4 935	227	472	388	64	30	102	4 867
Sør-Trøndelag	4 753	4 740	1 294	672	1 117	72	6	100	4 201
Nord-Trøndelag	4 944	4 933	2 161	768	1 782	196	12	127	4 005
Nordland	3 795	3 768	45	1 213	967	98	-	123	3 748
Troms	2 034	2 025	-	864	649	50	-	119	2 001
Finnmark	652	639	-	105	235	2	-	18	649
Agricultural area in use									
5 - 49 decares	13 788	13 507	2 407	1 566	370	406	906	726	10 875
50 - 99 "	16 720	16 671	4 180	2 081	1 485	307	490	480	13 535
100 - 199 "	22 286	22 279	6 466	3 406	5 431	539	305	471	18 302
200 - 299 "	10 367	10 367	4 052	1 781	3 716	370	73	246	8 513
300 - 499 "	5 273	5 273	3 378	992	1 760	330	43	138	3 836
500 - "	1 577	1 577	1 425	426	376	164	23	69	938
Holders³ by gender									
Legal persons	324	318	129	90	75	63	28	45	235
Males	60 693	60 448	19 450	9 024	11 882	1 811	1 590	1 772	48 429
Females	8 994	8 908	2 329	1 138	1 181	242	222	313	7 335
Holders² by age group									
Legal persons	324	318	129	90	75	63	28	45	235
- 29 years	3 647	3 627	957	375	749	88	55	72	3 109
30 - 39 "	14 226	14 168	4 337	1 875	3 023	413	310	425	11 825
40 - 49 "	20 377	20 286	6 475	3 006	4 197	672	520	653	16 378
50 - 59 "	19 191	19 105	6 233	2 953	3 518	623	538	582	14 969
60 - 69 "	9 935	9 886	3 010	1 643	1 428	227	302	309	7 778
70 - "	2 311	2 284	767	310	148	30	87	44	1 705
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	1 781	1 729	800	123	28	11	27	26	1 048
100 - 499 "	11 353	11 218	6 026	1 087	222	138	244	231	6 287
500 - 999 "	10 551	10 471	4 001	1 110	460	204	315	290	7 458
1 000 - 1 499 "	8 011	7 972	2 274	959	705	174	270	240	6 505
1 500 - 1 999 "	6 132	6 118	1 506	909	810	178	210	205	5 194
2 000 - 2 999 "	11 976	11 964	2 508	1 937	2 950	350	324	373	10 812
3 000 - 3 999 "	10 483	10 480	2 117	1 912	3 880	338	219	292	9 879
4 000 - "	9 724	9 722	2 676	2 215	4 083	723	231	473	8 816

¹ Refer to holdings with at least 5.0 decares agricultural area in use. Before 1999, areas were reported in decares with one decimal, while in 1999 in whole decares. Due to this, crops less than 1 decare in size were to a minor extent reported in 1999. This has most impact on potatoes, field-grown vegetables, fruit trees and berries. ² Not included table swedes.

³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/ft1999_en/.

3.4. Agricultural area, by different crops¹, county and various structural classifications. Decares

	Agricultural area in use		Grain and oil-seeds	Potatoes	Roots for feed, green fodder and silage crops	Field grown vegetables	Fruit trees and berries	Meadows and other pastureland	Other agricultural and horticultural areas ²
	Total	Of which area cultivated for arable crops							
1969	9 553 335	7 967 909	2 522 396	326 437	278 268	³ 51 924	..	6 169 405	190 036
1979	9 535 278	8 303 575	3 252 271	214 013	320 136	66 365	..	5 388 492	275 076
1989	9 910 773	8 817 538	3 529 803	188 910	397 337	57 030	57 794	5 478 349	201 550
1999	10 381 825	8 870 595	3 345 392	148 510	311 427	60 170	49 712	6 387 846	78 768
1999									
County									
Østfold	771 306	749 920	637 006	9 939	8 894	4 713	1 727	100 547	8 480
Akershus and Oslo	814 038	783 270	653 171	5 686	9 214	2 098	1 344	133 453	9 072
Hedmark	1 086 224	1 034 797	599 589	48 987	32 703	6 947	2 988	386 875	8 135
Oppland	1 028 008	885 454	252 668	16 732	50 412	5 490	2 135	696 691	3 880
Buskerud	522 201	471 239	270 980	4 653	9 853	7 183	6 091	217 326	6 115
Vestfold	435 638	425 731	311 654	15 181	5 884	16 715	4 133	63 475	18 596
Telemark	261 871	232 369	97 189	3 045	5 379	1 287	5 175	144 905	4 891
Aust-Agder	120 356	108 979	12 586	2 391	2 290	2 228	982	95 914	3 965
Vest-Agder	202 733	159 371	7 777	959	4 558	704	905	186 913	917
Rogaland	968 186	568 349	36 411	8 629	51 395	5 897	1 824	861 840	2 190
Hordaland	471 053	285 139	615	515	4 049	152	10 617	453 413	1 692
Sogn og Fjordane	476 631	315 538	1 161	1 547	3 151	628	7 365	461 888	891
Møre og Romsdal	615 770	511 927	16 790	2 632	6 158	414	1 390	586 566	1 820
Sør-Trøndelag	764 684	688 036	153 019	3 792	26 449	419	823	578 091	2 091
Nord-Trøndelag	884 962	831 822	292 133	16 028	43 741	4 456	1 383	523 513	3 708
Nordland	579 491	483 790	2 643	4 586	21 265	645	507	548 411	1 434
Troms	273 170	243 506	-	2 902	18 349	190	299	250 833	597
Finnmark	105 503	91 358	-	306	7 683	4	24	97 192	294
Agricultural area in use									
5 - 49 decares	415 749	344 616	65 598	4 778	2 277	2 726	16 222	316 462	7 686
50 - 99 "	1 212 458	1 000 642	260 312	9 060	16 187	4 892	13 076	899 533	9 398
100 - 199 "	3 222 171	2 700 355	721 845	25 232	104 600	12 451	10 147	2 332 193	15 703
200 - 299 "	2 497 287	2 125 218	669 956	25 648	105 065	11 059	4 754	1 669 141	11 664
300 - 499 "	1 949 961	1 693 426	885 124	37 586	65 990	15 358	3 653	924 346	17 904
500 - "	1 084 199	1 006 338	742 557	46 206	17 308	13 684	1 860	246 171	16 413
Holders⁴ by gender									
Legal persons	84 403	73 106	33 615	1 977	3 067	978	587	41 312	2 867
Males	9 227 927	7 912 985	3 003 032	137 914	281 996	55 478	43 823	5 637 005	68 679
Females	1 069 495	884 504	308 745	8 619	26 364	3 714	5 302	709 529	7 222
Holders⁴ by age group									
Legal persons	84 403	73 106	33 615	1 977	3 067	978	587	41 312	2 867
- 29 years	572 619	479 863	145 663	4 610	19 598	2 386	1 783	395 318	3 261
30 - 39 "	2 371 077	2 013 034	709 037	32 963	73 936	11 858	8 569	1 519 860	14 854
40 - 49 "	3 229 306	2 762 259	1 052 583	52 829	104 074	21 144	15 251	1 957 157	26 268
50 - 59 "	2 800 024	2 408 251	949 306	41 122	81 711	18 632	15 257	1 672 563	21 433
60 - 69 "	1 158 087	994 267	394 674	13 784	26 757	4 996	7 107	701 932	8 837
70 - "	166 309	139 815	60 514	1 225	2 284	176	1 158	99 704	1 248
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	69 544	63 946	28 144	320	603	22	176	38 131	2 148
100 - 499 "	841 586	793 725	538 296	4 876	4 391	1 289	2 529	280 112	10 093
500 - 999 "	1 052 578	940 412	599 506	7 194	5 857	2 427	4 398	424 192	9 004
1 000 - 1 499 "	955 004	817 561	429 450	10 608	10 545	2 568	4 864	488 357	8 612
1 500 - 1 999 "	855 581	721 608	331 532	12 694	12 428	2 548	4 303	484 367	7 709
2 000 - 2 999 "	2 018 074	1 691 228	522 437	31 007	60 417	6 951	9 340	1 375 514	12 408
3 000 - 3 999 "	2 103 702	1 743 506	363 180	27 601	93 675	7 821	7 519	1 594 489	9 417
4 000 - "	2 485 756	2 098 609	532 847	54 210	123 511	36 544	16 583	1 702 684	19 377

¹ Refer to holdings with at least 5.0 decares agricultural area in use. Before 1999, areas were reported in decares with one decimal, while in 1999 in whole decares. Due to this, crops less than 1 decare in size were to a minor extent reported in 1999. This has most impact on potatoes, field grown vegetables, fruit trees and berries. ² In 1969, 1979 and 1989 also included lawns and ornamental gardens. ³ Not included table swedes. ⁴ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

3.5. Holdings¹ with grain and oil-seeds, by county and various structural classifications

	Holdings with grain and oil-seeds, total	By type of grain								Oil-seeds
		Total	Wheat			Rye	Triticale	Barley	Oats	
			Total	Spring wheat	Winter wheat					
1969	50 099	49 935	1 743	..	..	557	..	43 166	20 181	3 494
1979	39 532	39 346	3 691	..	..	483	..	31 459	21 101	1 576
1989	33 103	32 895	5 779	..	..	98	..	24 294	19 431	1 581
1999	21 908	21 858	5 415	4 679	1 460	273	244	17 782	11 173	1 039
1999										
County										
Østfold	3 317	3 304	1 656	1 372	546	88	83	2 338	2 432	353
Akershus and Oslo	2 972	2 968	856	670	335	39	41	2 300	2 404	172
Hedmark	3 495	3 491	474	452	71	11	33	2 757	2 106	80
Oppland	2 059	2 055	284	273	36	14	8	1 936	529	79
Buskerud	2 027	2 016	623	562	129	13	19	1 590	1 077	115
Vestfold	2 155	2 149	1 156	1 052	251	99	37	1 562	1 087	185
Telemark	1 086	1 079	216	205	25	3	3	834	457	35
Aust-Agder	221	221	8	7	1	-	7	187	60	-
Vest-Agder	142	142	5	4	1	4	-	102	64	-
Rogaland	661	661	12	9	4	-	7	597	106	-
Hordaland	21	21	1	1	-	-	-	17	5	-
Sogn og Fjordane	25	24	9	9	-	1	-	19	5	1
Møre og Romsdal	227	227	2	1	1	-	-	202	49	-
Sør-Trøndelag	1 294	1 294	22	19	3	-	-	1 211	404	9
Nord-Trøndelag	2 161	2 161	90	42	57	1	6	2 090	379	10
Nordland	45	45	1	1	-	-	-	40	9	-
Troms	-	-	-	-	-	-	-	-	-	-
Finnmark	-	-	-	-	-	-	-	-	-	-
Agricultural area in use										
5 - 49 decares	2 407	2 389	103	81	23	7	6	1 479	941	24
50 - 99 "	4 180	4 160	421	360	80	19	17	2 996	1 899	60
100 - 199 "	6 466	6 456	1 411	1 218	282	62	60	5 324	3 327	206
200 - 299 "	4 052	4 051	1 240	1 059	331	59	51	3 587	2 066	218
300 - 499 "	3 378	3 377	1 399	1 210	429	71	62	3 060	1 971	292
500 - "	1 425	1 425	841	751	315	55	48	1 336	969	239
Area of grain and oil-seeds										
1 - 49 decares	4 878	4 855	233	195	43	16	20	3 470	1 489	34
50 - 99 "	5 286	5 266	620	535	111	29	24	4 064	2 255	79
100 - 199 "	6 170	6 165	1 740	1 486	389	80	66	5 189	3 540	223
200 - 299 "	2 793	2 791	1 192	1 023	345	53	51	2 494	1 823	227
300 - 499 "	2 026	2 026	1 095	962	356	55	50	1 851	1 464	274
500 - "	755	755	535	478	216	40	33	714	602	202
Holders² by age group										
Legal persons	129	129	45	41	17	7	6	111	75	12
- 29 years	957	953	264	230	73	11	7	782	449	46
30 - 39 "	4 337	4 330	1 248	1 078	368	66	44	3 600	2 077	284
40 - 49 "	6 475	6 456	1 798	1 576	455	98	84	5 263	3 357	324
50 - 59 "	6 233	6 220	1 482	1 263	405	60	75	5 070	3 269	270
60 - 69 "	3 010	3 003	505	424	135	28	23	2 399	1 575	95
70 - "	767	767	73	67	7	3	5	557	371	8
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	800	794	35	27	9	3	4	472	340	8
100 - 499 "	6 026	5 997	862	735	178	35	26	4 329	3 183	164
500 - 999 "	4 001	3 992	1 071	906	267	44	39	3 227	2 417	220
1 000 - 1 499 "	2 274	2 271	738	637	204	37	36	1 909	1 336	155
1 500 - 1 999 "	1 506	1 506	541	480	152	38	17	1 281	873	124
2 000 - 2 999 "	2 508	2 507	781	699	204	39	43	2 230	1 208	176
3 000 - 3 999 "	2 117	2 116	565	482	177	23	23	1 930	808	90
4 000 - "	2 676	2 675	822	713	269	54	56	2 404	1 008	102

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

3.6. Area of grain and oil-seeds¹, by county and various structural classifications. Decares

	Grain and oil-seeds, total	By type of grain								Oil-seeds
		Total	Wheat			Rye	Triticale	Barley	Oats	
			Total	Spring wheat	Winter wheat					
1969.....	2 522 396	2 444 751	38 274	..	..	13 385	..	1 847 131	545 962	77 645
1979.....	3 252 271	3 198 960	170 021	..	..	16 855	..	2 000 838	1 011 246	53 311
1989.....	3 529 803	3 468 589	382 484	..	..	4 245	..	1 759 910	1 321 950	61 215
1999.....	3 345 392	3 281 736	515 798	418 671	97 127	14 557	12 334	1 825 917	913 130	63 656
1999										
County										
Østfold.....	637 006	611 927	162 283	124 350	37 933	4 642	4 047	221 183	219 772	25 079
Akershus and Oslo.....	653 171	640 532	87 670	62 511	25 159	2 117	2 267	285 116	263 362	12 639
Hedmark.....	599 589	595 012	56 049	50 442	5 607	832	2 044	351 933	184 154	4 577
Oppland.....	252 668	249 885	25 737	24 691	1 046	412	507	194 950	28 279	2 783
Buskerud.....	270 980	265 379	54 363	47 340	7 023	631	922	137 406	72 057	5 601
Vestfold.....	311 654	301 502	110 419	93 319	17 100	5 632	1 593	121 618	62 240	10 152
Telemark.....	97 189	95 325	13 085	12 229	856	212	156	58 011	23 861	1 864
Aust-Agder.....	12 586	12 586	327	312	15	-	102	8 971	3 186	-
Vest-Agder.....	7 777	7 777	135	123	12	47	-	4 473	3 122	-
Rogaland.....	36 411	36 411	618	419	199	-	146	32 149	3 498	-
Hordaland.....	615	615	15	15	-	-	-	569	31	-
Sogn og Fjordane.....	1 161	1 157	398	398	-	1	-	719	39	4
Møre og Romsdal.....	16 790	16 790	35	32	3	-	-	14 604	2 151	-
Sør-Trøndelag.....	153 019	152 676	677	626	51	-	-	127 711	24 288	343
Nord-Trøndelag.....	292 133	291 519	3 956	1 833	2 123	31	550	264 000	22 982	614
Nordland.....	2 643	2 643	31	31	-	-	-	2 504	108	-
Troms.....	-	-	-	-	-	-	-	-	-	-
Finnmark.....	-	-	-	-	-	-	-	-	-	-
Agricultural area in use										
5 - 49 decares.....	65 598	65 021	2 542	2 037	505	94	104	38 267	24 014	577
50 - 99 ".....	260 312	258 145	17 198	14 585	2 613	620	504	153 149	86 674	2 167
100 - 199 ".....	721 845	713 231	81 115	68 543	12 572	2 279	2 365	409 599	217 873	8 614
200 - 299 ".....	669 956	658 912	98 037	79 677	18 360	2 891	2 069	381 712	174 203	11 044
300 - 499 ".....	885 124	867 188	152 512	123 729	28 783	3 886	3 706	474 619	232 465	17 936
500 - ".....	742 557	719 239	164 394	130 100	34 294	4 787	3 586	368 571	177 901	23 318
Area of grain and oil-seeds										
1 - 49 decares.....	138 419	137 624	5 922	4 942	980	231	280	94 514	36 677	795
50 - 99 ".....	380 414	377 487	27 337	23 830	3 507	1 015	918	241 050	107 167	2 927
100 - 199 ".....	874 725	865 218	110 405	92 488	17 917	3 138	3 042	503 483	245 150	9 507
200 - 299 ".....	674 546	662 361	110 237	89 679	20 558	2 797	2 663	366 422	180 242	12 185
300 - 499 ".....	763 017	745 717	139 709	112 679	27 030	3 627	2 824	386 018	213 539	17 300
500 - ".....	514 271	493 329	122 188	95 053	27 135	3 749	2 607	234 430	130 355	20 942
Holders² by age group										
Legal persons.....	33 615	32 743	7 624	5 739	1 885	208	469	17 280	7 162	872
- 29 years.....	145 663	142 309	25 862	20 234	5 628	781	347	79 045	36 274	3 354
30 - 39 ".....	709 037	691 334	122 898	97 782	25 116	3 879	2 513	384 853	177 191	17 703
40 - 49 ".....	1 052 583	1 032 871	176 781	146 857	29 924	5 067	4 096	559 329	287 598	19 712
50 - 59 ".....	949 306	933 095	134 075	108 742	25 333	3 245	3 519	525 924	266 332	16 211
60 - 69 ".....	394 674	389 199	43 818	34 921	8 897	1 279	1 240	224 889	117 973	5 475
70 - ".....	60 514	60 185	4 740	4 396	344	98	150	34 597	20 600	329
Total employment in agriculture and horticulture on the holding										
- 99 man-hours.....	28 144	27 869	1 180	910	270	90	127	15 296	11 176	275
100 - 499 ".....	538 296	530 545	49 433	41 366	8 067	1 525	984	285 465	193 138	7 751
500 - 999 ".....	599 506	588 154	79 531	64 113	15 418	1 963	1 777	307 086	197 797	11 352
1 000 - 1 499 ".....	429 450	420 037	66 522	53 236	13 286	1 990	1 754	221 560	128 211	9 413
1 500 - 1 999 ".....	331 532	324 056	61 534	50 547	10 987	1 924	606	164 469	95 523	7 476
2 000 - 2 999 ".....	522 437	510 416	92 811	76 471	16 340	2 482	2 188	289 971	122 964	12 021
3 000 - 3 999 ".....	363 180	355 977	58 079	46 441	11 638	1 114	1 730	223 594	71 460	7 203
4 000 - ".....	532 847	524 682	106 708	85 587	21 121	3 469	3 168	318 476	92 861	8 165

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_env/.

3.7. Holdings¹ with grain and oil-seeds, by area of grain and oil-seeds, county and various structural classifications

	Holdings with grain and oil-seeds, total		By area of grain and oil-seeds in decares					
	1989	1999	1-49	50-99	100-199	200-299	300-499	500-
1989	33 103	.	12 399	8 135	7 611	2 848	1 677	433
1999 .....	.	21 908	4 878	5 286	6 170	2 793	2 026	755
1999								
County								
Østfold	4 506	3 317	409	661	1 048	582	444	173
Akershus and Oslo	4 280	2 972	355	544	825	503	506	239
Hedmark	5 523	3 495	792	755	899	447	412	190
Oppland	3 368	2 059	595	520	548	246	118	32
Buskerud	3 071	2 027	456	541	631	220	142	37
Vestfold	3 089	2 155	313	589	786	288	133	46
Telemark	1 672	1 086	355	409	236	58	22	6
Aust-Agder	485	221	137	52	26	5	-	1
Vest-Agder	316	142	83	42	12	5	-	-
Rogaland	1 118	661	397	186	62	10	4	2
Hordaland	34	21	17	3	1	-	-	-
Sogn og Fjordane	32	25	16	6	3	-	-	-
Møre og Romsdal	505	227	98	78	42	5	4	-
Sør-Trøndelag	1 926	1 294	342	367	369	142	65	9
Nord-Trøndelag	3 082	2 161	487	523	675	280	176	20
Nordland	93	45	26	10	7	2	-	-
Troms	3	-	-	-	-	-	-	-
Finnmark	-	-	-	-	-	-	-	-
Agricultural area in use								
5 - 49 decares	7 623	2 407	2 407	.	.	.	.	.
50 - 99 "	7 715	4 180	899	3 281	.	.	.	.
100 - 199 "	9 514	6 466	932	1 096	4 438	.	.	.
200 - 299 "	4 709	4 052	469	619	1 065	1 899	.	.
300 - 499 "	2 736	3 378	163	273	603	756	1 583	.
500 - "	806	1 425	8	17	64	138	443	755
Holders² by age group								
Legal persons	³ 229	129	32	21	21	13	19	23
- 29 years	2 214	957	189	241	284	126	90	27
30 - 39 "	7 025	4 337	836	1 007	1 272	613	432	177
40 - 49 "	9 261	6 475	1 304	1 505	1 863	883	671	249
50 - 59 "	6 797	6 233	1 335	1 518	1 775	805	597	203
60 - 69 "	5 612	3 010	834	781	801	318	201	75
70 - "	1 965	767	348	213	154	35	16	1
Total employment in agriculture and horticulture on the holding								
- 99 man-hours .....	..	800	624	152	24	-	-	-
100 - 499 " .....	..	6 026	1 650	2 322	1 699	274	76	5
500 - 999 " .....	..	4 001	527	809	1 673	690	262	40
1 000 - 1 499 " .....	..	2 274	326	355	661	517	345	70
1 500 - 1 999 " .....	..	1 506	229	217	372	243	336	109
2 000 - 2 999 " .....	..	2 508	480	427	593	378	413	217
3 000 - 3 999 " .....	..	2 117	472	482	532	284	237	110
4 000 - " .....	..	2 676	570	522	616	407	357	204

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ³ 6 persons in 1989 are missing age. Those are added to the group of legal persons.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

3.8. Area¹ of grain and oil-seeds, by area of grain and oil-seeds per holding, county and various structural classifications. Decares

	Area with grain and oil-seeds, total		By area of grain and oil-seeds in decares per holding					
	1989	1999	1-49	50-99	100-199	200-299	300-499	500-
1989	3 529 803	.	308 296	577 542	1 062 721	678 414	618 820	284 010
1999 .....	.	3 345 392	138 419	380 414	874 725	674 546	763 017	514 271
1999								
County								
Østfold	648 278	637 006	11 997	48 492	151 329	140 321	167 368	117 499
Akershus and Oslo	673 608	653 171	10 236	39 613	119 392	122 171	193 087	168 672
Hedmark	614 332	599 589	22 845	54 234	128 050	108 896	156 605	128 959
Oppland	281 783	252 668	16 279	37 296	77 274	58 978	43 466	19 375
Buskerud	293 384	270 980	13 316	39 123	88 366	53 111	52 705	24 359
Vestfold	330 511	311 654	9 577	42 706	109 407	68 924	49 995	31 045
Telemark	108 668	97 189	10 744	28 933	31 490	14 099	8 236	3 687
Aust-Agder	15 320	12 586	3 320	3 526	3 590	1 220	-	930
Vest-Agder	9 958	7 777	2 061	2 937	1 533	1 246	-	-
Rogaland	43 959	36 411	10 463	12 500	8 702	2 217	1 384	1 145
Hordaland	1 267	615	328	160	127	-	-	-
Sogn og Fjordane	1 211	1 161	380	390	391	-	-	-
Møre og Romsdal	26 935	16 790	2 899	5 649	5 789	1 142	1 311	-
Sør-Trøndelag	157 592	153 019	9 635	26 161	52 174	34 234	24 089	6 726
Nord-Trøndelag	317 705	292 133	13 810	38 011	96 158	67 509	64 771	11 874
Nordland	5 276	2 643	529	683	953	478	-	-
Troms	16	-	-	-	-	-	-	-
Finnmark	-	-	-	-	-	-	-	-
Agricultural area in use								
5 - 49 decares	173 819	65 598	65 598	.	.	.	.	.
50 - 99 "	441 453	260 312	27 615	232 697	.	.	.	.
100 - 199 "	978 617	721 845	26 027	82 004	613 814	.	.	.
200 - 299 "	774 319	669 956	13 936	45 006	161 004	450 010	.	.
300 - 499 "	749 366	885 124	4 961	19 489	90 004	189 368	581 302	.
500 - "	412 229	742 557	282	1 218	9 903	35 168	181 715	514 271
Holders² by age group								
Legal persons	³ 39 458	33 615	686	1 510	2 945	3 284	7 345	17 845
- 29 years	228 902	145 663	5 070	17 086	40 008	30 192	33 100	20 207
30 - 39 "	816 718	709 037	23 994	72 381	181 708	148 563	163 012	119 379
40 - 49 "	1 075 352	1 052 583	38 111	108 383	264 779	214 064	254 988	172 258
50 - 59 "	739 180	949 306	37 452	109 583	251 272	194 626	223 315	133 058
60 - 69 "	512 511	394 674	23 847	56 306	112 933	75 632	74 980	50 976
70 - "	117 682	60 514	9 259	15 165	21 080	8 185	6 277	548
Total employment in agriculture and horticulture on the holding								
- 99 man-hours .....	..	28 144	15 513	9 844	2 787	-	-	-
100 - 499 " .....	..	538 296	51 331	165 940	227 658	63 669	26 942	2 756
500 - 999 " .....	..	599 506	14 634	61 054	240 647	164 001	94 806	24 364
1 000 - 1 499 " .....	..	429 450	8 682	26 062	97 835	125 261	128 926	42 684
1 500 - 1 999 " .....	..	331 532	6 150	15 914	54 700	60 089	128 548	66 131
2 000 - 2 999 " .....	..	522 437	13 238	30 924	84 735	92 615	155 945	144 980
3 000 - 3 999 " .....	..	363 180	13 305	34 085	76 682	68 693	90 363	80 052
4 000 - " .....	..	532 847	15 566	36 591	89 681	100 218	137 487	153 304

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ³ 6 persons in 1989 are missing age. Those are added to the group of legal persons.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

3.9. Holdings¹ using nitrogen (N) from commercial fertilizer on grain and oil-seeds the year before census, by average kg of N per decare, county and various structural classifications

	Holdings using N from commercial fertilizer on grain and oil-seeds	Holdings by average quantity of N per decare					Average quantity of N ² kg/decare
		1-9 kg	10 kg	11 kg	12 kg	13- kg	
1988	32 119	10 546	6 637	6 342	4 310	4 284	10,6
1998	21 466	4 630	5 779	3 407	5 200	2 450	11,0
1998							
County							
Østfold	3 302	233	571	544	1 244	710	12,0
Akershus and Oslo	2 933	346	812	584	890	301	11,4
Hedmark	3 461	663	1 284	694	645	175	10,5
Oppland	1 983	592	618	281	372	120	10,3
Buskerud	2 002	275	601	343	557	226	11,3
Vestfold	2 136	174	403	258	739	562	12,1
Telemark	1 067	126	271	220	313	137	11,3
Aust-Agder	212	54	30	33	58	37	11,1
Vest-Agder	142	25	15	19	45	38	11,7
Rogaland	570	414	68	22	34	32	8,0
Hordaland	19	13	1	1	2	2	7,1
Sogn og Fjordane	22	10	3	2	3	4	9,9
Møre og Romsdal	212	80	49	42	27	14	9,8
Sør-Trøndelag	1 268	606	376	146	110	30	9,6
Nord-Trøndelag	2 098	1 002	667	215	156	58	9,4
Nordland	36	15	10	2	5	4	10,2
Troms	3	2	-	1	-	-	-
Finnmark	-	-	-	-	-	-	-
Agricultural area in use in 1999							
5 - 49 decares	2 343	565	764	290	531	193	10,4
50 - 99 "	4 116	884	1 261	635	933	403	10,6
100 - 199 "	6 338	1 327	1 771	1 038	1 548	654	10,8
200 - 299 "	3 943	999	911	616	934	483	10,8
300 - 499 "	3 313	671	781	551	860	450	11,1
500 - "	1 413	184	291	277	394	267	11,5
Grain and oil-seeds in 1999							
Without grain and oil-seeds	113	59	28	8	6	12	.
1 - 49 decares	4 484	1 530	1 278	493	854	329	9,9
50 - 99 "	5 179	1 354	1 464	736	1 117	508	10,3
100 - 199 "	6 131	1 081	1 751	1 057	1 569	673	10,7
200 - 299 "	2 786	397	672	527	768	422	11,1
300 - 499 "	2 018	168	462	421	648	319	11,3
500 - "	755	41	124	165	238	187	11,7
Holders³ by age group in 1999							
Legal persons	120	31	31	22	20	16	11,2
- 29 years	948	217	243	133	230	125	11,3
30 - 39 "	4 228	972	1 063	652	1 042	499	11,0
40 - 49 "	6 341	1 326	1 693	1 007	1 562	753	11,0
50 - 59 "	6 130	1 291	1 713	1 027	1 430	669	11,0
60 - 69 "	2 955	629	812	471	740	303	10,9
70 - "	744	164	224	95	176	85	10,9
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	792	181	286	96	169	60	10,5
100 - 499 "	5 991	939	1 845	990	1 626	591	11,0
500 - 999 "	3 961	533	1 109	736	1 063	520	11,2
1 000 - 1 499 "	2 236	337	615	399	592	293	11,3
1 500 - 1 999 "	1 486	267	346	279	386	208	11,4
2 000 - 2 999 "	2 445	647	595	369	546	288	11,1
3 000 - 3 999 "	2 024	751	454	259	363	197	10,6
4 000 - "	2 531	975	529	279	455	293	10,6

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Calculations are based on area of grain and oil-seeds in 1989 and 1999, respectively. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

3.10. Holdings¹ using phosphorus (P) from commercial fertilizer on grain and oil-seeds the year before census, by average kg of P per decare, county and various structural classifications

	Holdings using P from commercial fertilizer on grain and oil-seeds	Holdings by average quantity of P per decare					Average quantity of P ² kg/decare
		0.1-0.9 kg	1.0-1.4 kg	1.5-1.9 kg	2.0-2.4 kg	2.5- kg	
1988.....	31 225	³ ..	5 441	³ ..	16 634	9 150	2,2
1998.....	21 080	2 174	2 341	5 436	8 378	2 751	2,0
1998							
County							
Østfold	3 278	158	223	645	1 745	507	2,1
Akershus and Oslo	2 919	164	214	833	1 418	290	2,0
Hedmark	3 435	295	305	1 009	1 144	682	2,0
Oppland	1 965	312	294	514	685	160	1,8
Buskerud	1 992	96	140	618	918	220	2,1
Vestfold.....	2 133	132	175	432	1 023	371	2,1
Telemark.....	1 057	81	107	244	466	159	2,0
Aust-Agder	207	27	56	46	60	18	1,7
Vest-Agder	140	9	37	34	48	12	1,9
Rogaland.....	361	126	90	49	60	36	1,5
Hordaland	14	4	4	2	3	1	1,2
Sogn og Fjordane	19	2	9	4	3	1	1,3
Møre og Romsdal	209	48	53	60	37	11	1,5
Sør-Trøndelag	1 247	211	243	357	322	114	1,8
Nord-Trøndelag.....	2 070	502	385	579	440	164	1,6
Nordland.....	31	6	4	10	6	5	1,8
Troms	3	1	2	-	-	-	-
Finnmark.....	-	-	-	-	-	-	-
Agricultural area in use in 1999							
5 - 49 decares.....	2 303	189	292	752	826	244	1,9
50 - 99 ".....	4 062	320	467	1 226	1 563	486	1,9
100 - 199 ".....	6 205	617	648	1 699	2 505	736	1,9
200 - 299 ".....	3 850	541	459	847	1 485	518	1,9
300 - 499 ".....	3 260	409	357	665	1 351	478	2,0
500 - ".....	1 400	98	118	247	648	289	2,1
Grain and oil-seeds in 1999							
Without grain and oil-seeds	95	21	23	23	16	12	.
1 - 49 decares.....	4 303	599	731	1 236	1 340	397	1,7
50 - 99 ".....	5 070	613	620	1 405	1 828	604	1,8
100 - 199 ".....	6 077	601	553	1 623	2 525	775	1,9
200 - 299 ".....	2 771	220	246	617	1 257	431	2,0
300 - 499 ".....	2 014	97	138	403	998	378	2,1
500 - ".....	750	23	30	129	414	154	2,1
Holders⁴ by age group in 1999							
Legal persons	113	13	14	36	38	12	1,9
- 29 years.....	927	97	110	230	370	120	2,0
30 - 39 ".....	4 137	488	479	976	1 631	563	2,0
40 - 49 ".....	6 223	653	682	1 586	2 476	826	2,0
50 - 59 ".....	6 021	609	631	1 609	2 399	773	2,0
60 - 69 ".....	2 917	257	341	778	1 173	368	2,0
70 - ".....	742	57	84	221	291	89	1,9
Total employment in agriculture and horticulture on the holding							
- 99 man-hours.....	787	39	102	266	286	94	2,0
100 - 499 ".....	5 956	311	516	1 813	2 546	770	2,0
500 - 999 ".....	3 942	211	319	1 108	1 800	504	2,0
1 000 - 1 499 ".....	2 214	137	213	572	991	301	2,1
1 500 - 1 999 ".....	1 459	107	126	346	656	224	2,1
2 000 - 2 999 ".....	2 372	339	326	519	884	304	2,0
3 000 - 3 999 ".....	1 948	441	325	372	571	239	1,8
4 000 - ".....	2 402	589	414	440	644	315	1,8

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Calculations are based on area of grain and oil-seeds in 1989 and 1999, respectively. ³ For 1988 quantities of phosphorus were reported in kg without any decimal. ⁴ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

3.11. Holdings with potatoes, by area used for potatoes¹, county and various structural classifications

	Holdings with potatoes, total	By potato area in decares						
		1	2-4	5-9	10-19	20-49	50-99	100-
1969	123 362	79 355	30 807	7 683	3 173	1 835	442	67
1979	87 397	66 322	14 470	2 852	1 637	1 547	492	77
1989	38 158	28 130	5 019	1 269	1 189	1 522	802	227
1999	10 252	5 405	1 891	527	550	870	657	352
1999								
County								
Østfold	420	137	81	35	31	58	50	28
Akershus and Oslo	279	110	59	15	15	33	36	11
Hedmark	1 065	325	128	33	55	179	175	170
Oppland	1 138	684	170	30	43	76	92	43
Buskerud	407	231	78	22	19	29	16	12
Vestfold	403	61	37	26	56	108	81	34
Telemark	251	134	47	18	13	17	14	8
Aust-Agder	216	94	58	16	11	19	15	3
Vest-Agder	209	129	44	11	15	7	2	1
Rogaland	797	323	155	78	90	108	41	2
Hordaland	359	297	49	11	1	1	-	-
Sogn og Fjordane	614	485	75	20	15	19	-	-
Møre og Romsdal	472	359	56	17	16	10	8	6
Sør-Trøndelag	672	397	166	40	31	22	12	4
Nord-Trøndelag	768	294	154	38	40	108	106	28
Nordland	1 213	709	323	68	60	46	6	1
Troms	864	566	189	43	34	28	3	1
Finnmark	105	70	22	6	5	2	-	-
Agricultural area in use								
5 - 49 decares	1 566	1 062	272	101	83	48	.	.
50 - 99 "	2 081	1 369	375	95	95	126	21	.
100 - 199 "	3 406	1 962	680	170	184	269	125	16
200 - 299 "	1 781	760	399	101	111	208	175	27
300 - 499 "	992	227	151	47	64	163	230	110
500 - "	426	25	14	13	13	56	106	199
Holders² by age group								
Legal persons	90	11	25	20	13	10	6	5
- 29 years	375	185	69	25	26	40	23	7
30 - 39 "	1 875	929	330	101	105	183	141	86
40 - 49 "	3 006	1 518	550	142	150	278	226	142
50 - 59 "	2 953	1 531	539	147	188	268	198	82
60 - 69 "	1 643	1 002	324	80	63	88	57	29
70 - "	310	229	54	12	5	3	6	1
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	123	99	14	3	4	2	1	-
100 - 499 "	1 087	700	193	71	59	50	12	2
500 - 999 "	1 110	657	198	65	70	96	20	4
1 000 - 1 499 "	959	495	174	52	58	111	56	13
1 500 - 1 999 "	909	462	171	35	49	103	62	27
2 000 - 2 999 "	1 937	1 005	360	73	89	155	181	74
3 000 - 3 999 "	1 912	1 031	356	93	90	147	126	69
4 000 - "	2 215	956	425	135	131	206	199	163

¹ Refer to holdings with at least 5.0 decares agricultural area in use. Before 1999, areas were reported in decares with one decimal, while in 1999 in decares without decimal. Due to this, holdings with less than 1 decare potatoes were to a minor extent reported in 1999. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

3.12. Area of potatoes, by area used for potatoes per holding¹, county and various structural classifications. Decares

	Area of potatoes, total	By potato area in decares per holding						
		1	2-4	5-9	10-19	20-49	50-99	100-
1969	326 437	65 160	83 254	47 944	40 221	52 785	28 414	8 658
1979	214 013	51 015	36 590	17 689	21 174	45 940	31 050	10 556
1989	188 910	21 297	12 532	8 021	15 544	45 900	53 032	32 585
1999	148 510	5 405	4 612	3 326	7 440	26 627	44 755	56 345
1999								
County								
Østfold	9 939	137	208	223	414	1 843	3 446	3 668
Akershus and Oslo	5 686	110	147	90	197	1 022	2 378	1 742
Hedmark	48 987	325	336	190	787	5 533	12 290	29 526
Oppland	16 732	684	404	178	570	2 353	6 245	6 298
Buskerud	4 653	231	190	136	262	863	1 071	1 900
Vestfold	15 181	61	102	156	746	3 405	5 589	5 122
Telemark	3 045	134	120	111	163	495	921	1 101
Aust-Agder	2 391	94	146	105	150	568	917	411
Vest-Agder	959	129	114	71	203	220	112	110
Rogaland	8 629	323	391	505	1 189	3 221	2 620	380
Hordaland	515	297	106	72	10	30	-	-
Sogn og Fjordane	1 547	485	170	142	209	541	-	-
Møre og Romsdal	2 632	359	131	114	223	343	608	854
Sør-Trøndelag	3 792	397	397	250	420	588	710	1 030
Nord-Trøndelag	16 028	294	387	227	549	3 358	7 291	3 922
Nordland	4 586	709	775	443	792	1 398	367	102
Troms	2 902	566	436	267	488	776	190	179
Finnmark	306	70	52	46	68	70	-	-
Agricultural area in use								
5 - 49 decares	4 778	1 062	665	624	1 091	1 336	.	.
50 - 99 "	9 060	1 369	906	601	1 301	3 534	1 349	.
100 - 199 "	25 232	1 962	1 620	1 077	2 467	8 239	7 917	1 950
200 - 299 "	25 648	760	1 003	633	1 531	6 510	11 771	3 440
300 - 499 "	37 586	227	376	309	892	5 226	16 070	14 486
500 - "	46 206	25	42	82	158	1 782	7 648	36 469
Holders² by age group								
Legal persons	1 977	11	66	130	195	233	357	985
- 29 years	4 610	185	163	149	349	1 176	1 509	1 079
30 - 39 "	32 963	929	802	654	1 407	5 622	9 593	13 956
40 - 49 "	52 829	1 518	1 318	919	2 037	8 571	15 447	23 019
50 - 59 "	41 122	1 531	1 325	929	2 522	8 233	13 542	13 040
60 - 69 "	13 784	1 002	796	472	864	2 707	3 882	4 061
70 - "	1 225	229	142	73	66	85	425	205
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	320	99	37	18	47	54	65	-
100 - 499 "	4 876	700	472	415	805	1 382	844	258
500 - 999 "	7 194	657	491	409	959	2 796	1 394	488
1 000 - 1 499 "	10 608	495	414	325	781	3 450	3 626	1 517
1 500 - 1 999 "	12 694	462	408	218	669	3 127	4 115	3 695
2 000 - 2 999 "	31 007	1 005	870	471	1 196	4 833	12 043	10 589
3 000 - 3 999 "	27 601	1 031	873	581	1 234	4 538	8 788	10 556
4 000 - "	54 210	956	1 047	889	1 749	6 447	13 880	29 242

¹ Refer to holdings with at least 5.0 decares agricultural area in use. Before 1999, areas were reported in decares with one decimal, while in 1999 in decares without decimal. Due to this, holdings with less than 1 decare potatoes were to a minor extent reported in 1999. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

3.13. Holdings¹ with various crops for feed and size of area of these crops, by county and various structural classifications

	Holdings with roots for feed, green forage crops and silage crops					Areas of roots for feed, green forage crops and silage crops				
	Total	Roots for feed (turnips, swedes, beets)	Rye grass, forage rape, marrow stem kale, unthinned turnips	Other crops for green forage and silage	Grain for silage	Total	Roots for feed (turnips, swedes, beets)	Rye grass, forage rape, marrow stem kale, unthinned turnips	Other crops for green forage and silage	Grain for silage
1969	43 099	24 780	14 549	19 122	..	278 268	69 960	86 559	121 749	..
1979	26 192	8 494	15 054	10 395	..	320 136	29 499	172 348	118 289	..
1989	22 387	6 244	19 858		..	397 337	25 726	371 611		..
1999	13 138	726	9 132	4 991	196	311 427	3 912	192 849	107 902	6 764
1999										
County										
Østfold	322	55	235	96	1	8 894	527	5 896	2 467	4
Akershus and Oslo	347	25	229	151	1	9 214	136	4 611	4 452	15
Hedmark	1 204	50	832	530	17	32 703	415	19 220	12 470	598
Oppland	2 337	49	1 545	1 053	13	50 412	276	29 784	20 016	336
Buskerud	508	37	326	225	2	9 853	288	4 961	4 569	35
Vestfold	200	33	136	81	3	5 884	316	3 502	1 901	165
Telemark	228	15	168	79	2	5 379	31	3 521	1 785	42
Aust-Agder	124	13	81	48	2	2 290	27	1 468	719	76
Vest-Agder	226	14	148	93	8	4 558	50	3 013	1 228	267
Rogaland	1 762	124	1 621	138	25	51 395	798	47 552	2 484	561
Hordaland	395	61	320	48	2	4 049	108	3 367	520	54
Sogn og Fjordane	347	58	260	68	-	3 151	108	2 276	767	-
Møre og Romsdal	388	53	216	130	25	6 158	141	2 982	1 991	1 044
Sør-Trøndelag	1 117	53	727	486	45	26 449	238	15 228	9 525	1 458
Nord-Trøndelag	1 782	64	1 462	505	21	43 741	340	30 883	11 401	1 117
Nordland	967	15	434	647	9	21 265	103	6 869	13 832	461
Troms	649	5	324	412	17	18 349	7	6 454	11 401	487
Finnmark	235	2	68	201	3	7 683	3	1 262	6 374	44
Agricultural area in use										
5 - 49 decares	370	24	197	173	1	2 277	35	1 079	1 130	33
50 - 99 "	1 485	104	897	616	6	16 187	188	8 655	7 237	107
100 - 199 "	5 431	281	3 744	2 092	64	104 600	1 041	64 313	37 825	1 421
200 - 299 "	3 716	203	2 663	1 403	74	105 065	1 336	64 175	36 940	2 614
300 - 499 "	1 760	86	1 349	594	43	65 990	944	42 981	20 364	1 701
500 - "	376	28	282	113	8	17 308	368	11 646	4 406	888
Holders² by age group										
Legal persons	75	17	43	47	4	3 067	135	1 108	1 749	75
- 29 years	749	33	538	273	20	19 598	195	11 985	6 578	840
30 - 39 "	3 023	161	2 143	1 124	53	73 936	828	44 991	26 353	1 764
40 - 49 "	4 197	237	3 003	1 490	70	104 074	1 341	66 502	33 721	2 510
50 - 59 "	3 518	171	2 455	1 337	39	81 711	950	51 562	27 852	1 347
60 - 69 "	1 428	97	873	647	9	26 757	435	15 483	10 636	203
70 - "	148	10	77	73	1	2 284	28	1 218	1 013	25
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	28	1	14	15	-	603	2	216	385	-
100 - 499 "	222	8	115	108	2	4 391	30	2 037	2 250	74
500 - 999 "	460	24	271	197	4	5 857	77	3 242	2 458	80
1 000 - 1 499 "	705	31	466	277	3	10 545	61	6 265	4 094	125
1 500 - 1 999 "	810	33	559	303	2	12 428	80	7 832	4 483	33
2 000 - 2 999 "	2 950	121	2 009	1 139	42	60 417	443	37 074	21 746	1 154
3 000 - 3 999 "	3 880	221	2 716	1 478	57	93 675	1 000	56 286	34 418	1 971
4 000 - "	4 083	287	2 982	1 474	86	123 511	2 219	79 897	38 068	3 327

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_env/.

3.14. Holdings¹ with fully cultivated meadows by age, holdings with surface-cultivated meadows and holdings with other infield pastureland, by county and various structural classifications

	Holdings with meadows and/or other infield pastureland, total	With fully cultivated meadows		With fully cultivated meadows by age				With surface-cultivated meadows		With other infield pastureland
		Total	Whole or parts of the area used only as pasture in 1999	0-1 year old	2-4 years old	5-9 years old	10 years and older	Total	Whole or parts of the area used only as pasture in 1999	
1969.....	143 872	136 166	..	..	..	..	..	81 297	..	..
1979.....	102 331	94 192	..	..	..	..	..	52 426	..	..
1989.....	74 546	70 755	..	..	..	..	..	<u>38 155</u>	..	..
1999.....	55 999	55 217	12 850	28 778	39 861	35 086	28 603	³ 17 687	6 180	29 258
1999										
County										
Østfold.....	1 281	1 202	339	532	932	455	158	292	167	366
Akershus and Oslo.....	1 412	1 340	359	585	1 012	615	264	271	141	541
Hedmark.....	3 459	3 396	927	2 092	2 860	1 980	834	580	247	1 155
Oppland.....	6 109	6 056	1 241	3 719	5 149	4 133	2 452	1 592	644	3 030
Buskerud.....	2 329	2 279	411	1 158	1 765	1 471	991	765	254	1 093
Vestfold.....	826	791	244	348	634	293	100	191	94	203
Telemark.....	1 854	1 784	384	608	1 062	1 027	1 060	732	235	706
Aust-Agder.....	1 112	1 102	396	526	824	803	537	248	111	354
Vest-Agder.....	1 898	1 888	541	967	1 372	1 312	1 075	780	334	1 026
Rogaland.....	5 891	5 837	1 517	3 336	4 445	3 700	2 302	1 135	441	4 856
Hordaland.....	5 248	5 165	648	1 764	2 489	2 773	4 135	3 455	1 010	3 741
Sogn og Fjordane.....	5 109	5 056	470	1 961	2 666	2 978	4 182	2 770	630	3 751
Møre og Romsdal.....	4 867	4 847	1 298	2 527	3 303	3 549	3 549	1 643	660	2 862
Sør-Trøndelag.....	4 201	4 163	1 469	2 732	3 536	3 134	1 825	813	362	1 593
Nord-Trøndelag.....	4 005	3 978	1 373	2 609	3 532	2 624	1 144	807	377	1 285
Nordland.....	3 748	3 711	759	1 963	2 566	2 541	2 350	1 057	336	1 793
Troms.....	2 001	1 987	338	1 080	1 303	1 282	1 290	452	117	715
Finnmark.....	649	635	136	271	411	416	355	104	20	188
Agricultural area in use										
5 - 49 decares.....	10 875	10 459	1 239	2 400	4 392	4 402	6 182	3 583	990	3 370
50 - 99 ".....	13 535	13 391	2 009	5 607	8 508	8 204	7 739	4 747	1 372	6 815
100 - 199 ".....	18 302	18 190	4 779	11 508	15 088	13 359	9 355	5 717	2 137	11 059
200 - 299 ".....	8 513	8 468	3 105	6 078	7 671	6 237	3 709	2 388	1 065	5 178
300 - 499 ".....	3 836	3 785	1 401	2 625	3 399	2 441	1 409	1 019	491	2 352
500 - ".....	938	924	317	560	803	443	209	233	125	484
Fully cultivated meadow										
Without fully cultivated meadow.....	782	-	-	-	-	-	-	567	165	341
1 - 49 decares.....	19 680	19 680	2 331	5 157	9 592	8 448	10 550	7 078	2 043	8 829
50 - 99 ".....	15 849	15 849	3 169	8 735	12 240	11 038	8 254	4 939	1 765	9 136
100 - 149 ".....	10 206	10 206	3 231	7 302	9 171	7 894	5 051	2 741	1 138	6 029
150 - 199 ".....	5 319	5 319	2 137	4 183	4 958	4 284	2 582	1 375	614	2 935
200 - 249 ".....	2 558	2 558	1 208	2 093	2 390	2 103	1 310	636	303	1 234
250 - 299 ".....	976	976	471	794	925	804	507	220	97	458
300 - ".....	629	629	303	514	585	515	349	131	55	296
Holders⁴ by age group										
Legal persons.....	235	223	65	117	161	134	87	81	35	109
- 29 years.....	3 109	3 060	692	1 758	2 310	1 880	1 434	908	298	1 686
30 - 39 ".....	11 825	11 681	2 958	6 868	9 070	7 694	5 659	3 527	1 307	6 524
40 - 49 ".....	16 378	16 154	3 936	8 856	12 158	10 547	8 163	5 303	1 910	8 834
50 - 59 ".....	14 969	14 767	3 426	7 484	10 559	9 510	7 890	4 793	1 706	7 659
60 - 69 ".....	7 778	7 684	1 482	3 268	4 881	4 520	4 345	2 501	756	3 757
70 - ".....	1 705	1 648	291	427	722	801	1 025	574	168	689
Total employment in agriculture and horticulture on the holding										
- 99 man-hours.....	1 048	967	85	198	457	406	403	218	58	124
100 - 499 ".....	6 287	6 021	741	1 541	3 103	2 788	2 791	1 510	434	1 373
500 - 999 ".....	7 458	7 270	1 134	2 310	3 891	3 740	4 039	2 519	814	3 211
1 000 - 1 499 ".....	6 505	6 413	1 137	2 569	3 906	3 583	3 676	2 415	772	3 507
1 500 - 1 999 ".....	5 194	5 159	1 010	2 369	3 481	3 192	2 899	1 876	594	2 993
2 000 - 2 999 ".....	10 812	10 761	2 661	6 428	8 544	7 628	5 773	3 587	1 264	6 421
3 000 - 3 999 ".....	9 879	9 852	3 067	6 882	8 587	7 398	4 885	3 034	1 211	6 134
4 000 - ".....	8 816	8 774	3 015	6 481	7 892	6 351	4 137	2 528	1 033	5 495

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Each holding may have meadow plots of different age. ³ Because of change in the classification in 1999, the number of holdings with surface-cultivated meadows is not comparable with previous censuses. ⁴ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

3.15. Area¹ of cultivated meadows by age, area of surface-cultivated meadows and area of other infield pastureland, by county and various structural classifications. Decares

	Area of meadows and other infield pastureland, total	Fully cultivated meadows		Fully cultivated meadows by age				Surface-cultivated meadows		Other infield pastureland
		Total	Of which used only as pasture in 1999	0-1 year old	2-4 years old	5-9 years old	10 years or older	Total	Of which used only as pasture in 1999	
1969	6 167 405	4 583 978	..	..	..	..	..	1 585 427	..	..
1979	5 388 492	4 156 789	..	..	..	..	..	1 231 703	..	..
1989	5 478 349	4 385 114	..	..	..	..	..	1 093 235	..	..
1999	6 387 846	4 876 616	297 070	672 203	1 818 026	1 336 754	1 049 633	² 295165	102 459	1 216 065
1999										
County										
Østfold	100 547	79 161	7 088	15 387	47 059	12 817	3 898	9 129	5 713	12 257
Akershus and Oslo	133 453	102 685	9 118	17 578	57 703	20 744	6 660	6 491	3 879	24 277
Hedmark	386 875	335 448	23 115	61 534	173 721	77 537	22 656	11 101	4 835	40 326
Oppland	696 691	554 137	26 316	79 848	246 308	155 718	72 263	29 335	12 345	113 219
Buskerud	217 326	166 364	8 770	23 310	68 351	47 744	26 959	11 900	4 114	39 062
Vestfold	63 475	53 568	5 514	9 997	32 078	9 238	2 255	4 503	2 129	5 404
Telemark	144 905	115 403	8 690	11 528	35 275	31 873	36 727	11 467	3 565	18 035
Aust-Agder	95 914	84 537	9 357	9 757	29 720	28 055	17 005	3 240	1 413	8 137
Vest-Agder	186 913	143 551	10 767	16 623	52 820	42 552	31 556	12 113	4 741	31 249
Rogaland	861 840	462 003	31 706	74 647	199 458	122 811	65 087	16 603	6 183	383 234
Hordaland	453 413	267 499	9 192	19 203	52 061	69 675	126 560	55 987	14 325	129 927
Sogn og Fjordane	461 888	300 795	6 617	19 416	53 991	75 750	151 638	37 843	7 311	123 250
Møre og Romsdal	586 566	482 723	31 875	45 163	122 181	155 145	160 234	20 088	7 967	83 755
Sør-Trøndelag	578 091	501 443	43 415	73 877	204 585	150 645	172 336	17 132	7 162	59 516
Nord-Trøndelag	523 513	470 373	35 475	85 512	234 042	114 901	35 918	16 277	7 711	36 863
Nordland	548 411	452 710	18 223	61 467	122 603	137 665	130 975	21 550	6 507	74 151
Troms	250 833	221 169	8 134	38 550	60 141	58 244	64 234	7 725	2 113	21 939
Finnmark	97 192	83 047	3 698	8 806	25 929	25 640	22 672	2 681	446	11 464
Agricultural area in use										
5 - 49 decares	316 462	245 329	10 829	18 407	56 813	62 301	107 808	33 306	7 995	37 827
50 - 99 "	899 533	687 717	28 230	67 959	191 552	199 057	229 149	63 652	16 225	148 164
100 - 199 "	2 332 193	1 810 377	98 068	241 220	644 782	531 328	393 047	98 714	33 828	423 102
200 - 299 "	1 669 141	1 297 072	92 393	201 242	539 306	350 963	205 561	56 013	23 429	316 056
300 - 499 "	924 346	667 811	53 737	112 286	295 620	161 474	98 431	31 175	14 385	225 360
500 - "	246 171	168 310	13 813	31 089	89 953	31 631	15 637	12 305	6 597	65 556
Fully cultivated meadow										
Without fully cultivated meadow	20 110	-	-	-	-	-	-	11 446	2 657	8 664
1 - 49 decares	846 148	520 251	22 678	45 018	141 049	126 982	207 202	89 876	23 686	236 021
50 - 99 "	1 624 847	1 144 403	52 274	135 886	384 964	323 391	300 162	81 163	27 968	399 281
100 - 149 "	1 604 997	1 244 138	73 060	179 195	491 184	347 697	226 062	53 814	22 339	307 045
150 - 199 "	1 095 253	911 673	63 783	144 220	372 667	252 498	142 288	31 251	13 455	152 329
200 - 249 "	644 499	564 547	44 835	91 377	230 287	155 570	87 313	16 361	7 584	63 591
250 - 299 "	296 803	263 824	21 224	41 057	107 041	71 388	44 338	6 323	2 968	26 656
300 - "	255 189	227 780	19 216	35 450	90 834	59 228	42 268	4 931	1 802	22 478
Holders³ by age group										
Legal persons	41 312	30 015	2 588	5 351	13 321	6 778	4 565	3 136	1 967	8 161
- 29 years	395 318	302 562	15 634	47 244	117 670	76 975	60 673	16 211	5 108	76 545
30 - 39 "	1 519 860	1 161 817	73 798	174 835	455 275	312 922	218 785	63 195	23 043	294 848
40 - 49 "	1 957 157	1 490 110	91 504	210 527	570 604	408 023	300 956	89 022	31 353	378 025
50 - 59 "	1 672 563	1 280 790	78 359	165 990	464 267	357 639	292 894	78 901	28 124	312 872
60 - 69 "	701 932	538 112	30 143	62 322	178 589	153 286	143 915	36 810	10 818	127 010
70 - "	99 704	73 210	5 044	5 934	18 300	21 131	27 845	7 890	2 046	18 604
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	38 131	32 533	1 123	3 221	10 710	9 578	9 024	3 040	816	2 558
100 - 499 "	280 112	232 251	10 108	24 130	76 141	68 408	63 572	19 223	5 205	28 638
500 - 999 "	424 192	312 026	16 031	31 172	96 439	87 203	97 212	32 869	10 234	79 297
1 000 - 1 499 "	488 357	350 914	20 638	37 419	108 575	95 149	109 771	34 059	10 106	103 384
1 500 - 1 999 "	484 367	350 394	19 574	39 758	110 212	100 164	100 260	28 872	8 358	105 101
2 000 - 2 999 "	1 375 514	1 048 668	60 310	140 154	373 805	299 154	235 555	61 916	21 215	264 930
3 000 - 3 999 "	1 594 489	1 234 293	80 222	183 309	481 991	347 516	221 477	58 051	22 229	302 145
4 000 - "	1 702 684	1 315 537	89 064	213 040	560 153	329 582	212 762	57 135	24 296	330 012

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Because of change in the classification in 1999, the area of surface-cultivated meadows is not comparable with previous censuses. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

3.16. Holdings¹ using nitrogen (N) from commercial fertilizer on fully cultivated meadow the year before census, by average kg of N per decaire, by county and various structural classifications

	Holdings using N from commercial fertilizer on fully cultivated meadow	Holdings by average quantity of N per decaire							Average quantity of N ² kg/dekar
		1-7 kg	8-9 kg	10-11 kg	12-13 kg	14-15 kg	16-19 kg	20- kg	
1988	64 420	17 645	7 874	9 503	6 651	5 814	6 948	9 985	13,9
1998	51 168	9 421	6 788	8 875	6 681	5 628	6 873	6 902	13,5
1998									
County									
Østfold	1 098	80	86	186	166	147	175	258	16,7
Akershus and Oslo	1 148	130	136	229	191	143	176	143	14,1
Hedmark	3 118	386	421	657	471	354	474	355	13,7
Oppland	5 694	913	830	1 124	876	709	715	527	12,7
Buskerud	2 040	466	334	407	250	195	252	136	12,1
Vestfold	708	69	77	144	93	99	95	131	15,6
Telemark	1 566	439	294	332	184	108	125	84	11,4
Aust-Agder	989	289	186	172	106	93	85	58	11,6
Vest-Agder	1 781	346	307	304	213	251	207	153	13,1
Rogaland	5 631	466	423	599	491	652	1 143	1 857	17,4
Hordaland	4 649	1 520	672	658	569	464	449	317	11,8
Sogn og Fjordane	4 598	1 351	617	635	510	475	549	461	12,3
Møre og Romsdal	4 480	806	449	608	558	556	738	765	14,5
Sør-Trøndelag	3 896	528	505	756	536	494	607	470	13,6
Nord-Trøndelag	3 803	312	257	482	490	486	729	1 047	15,8
Nordland	3 481	707	595	715	698	332	318	116	11,6
Troms	1 881	481	484	640	180	55	26	15	9,5
Finmark	607	132	115	227	99	15	10	9	10,4
Agricultural area in use in 1999									
5 - 49 decares	8 356	3 207	1 491	1 332	813	561	506	446	9,8
50 - 99 "	12 436	3 154	2 104	2 286	1 598	1 190	1 201	903	11,1
100 - 199 "	17 581	2 234	2 146	3 206	2 461	2 178	2 699	2 657	13,3
200 - 299 "	8 240	595	736	1 332	1 167	1 127	1 561	1 722	14,4
300 - 499 "	3 677	199	265	599	513	457	721	923	15,0
500 - "	878	32	46	120	129	115	185	251	16,2
Fully cultivated meadow in 1999									
Without fully cultivated meadow ..	156	40	24	35	18	9	15	15	.
1 - 49 decares	16 692	5 020	2 690	3 010	1 963	1 378	1 404	1 227	10,9
50 - 99 "	15 118	2 631	2 142	2 681	1 959	1 736	2 001	1 968	12,7
100 - 149 "	9 950	1 017	1 062	1 606	1 339	1 299	1 750	1 877	14,0
150 - 199 "	5 180	399	499	841	787	684	935	1 035	14,3
200 - 249 "	2 511	198	216	415	381	326	508	467	14,3
250 - 299 "	950	69	88	186	147	107	160	193	14,1
300 - "	611	47	67	101	87	89	100	120	14,3
Holders³ by age group in 1999									
Legal persons	186	22	19	26	21	27	34	37	15,4
- 29 years	2 856	473	355	528	369	324	410	397	13,6
30 - 39 "	10 956	1 692	1 344	1 925	1 484	1 218	1 587	1 706	13,8
40 - 49 "	14 967	2 561	1 959	2 637	1 928	1 647	2 142	2 093	13,6
50 - 59 "	13 794	2 578	1 820	2 321	1 817	1 544	1 836	1 878	13,5
60 - 69 "	7 071	1 637	1 078	1 218	903	760	766	709	12,7
70 - "	1 338	458	213	220	159	108	98	82	11,3
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	659	215	123	114	86	47	36	38	10,7
100 - 499 "	4 990	1 546	872	1 008	566	343	361	294	10,9
500 - 999 "	6 376	1 944	1 175	1 109	719	528	497	404	11,0
1 000 - 1 499 "	5 885	1 546	974	1 051	725	589	563	437	11,5
1 500 - 1 999 "	4 814	1 013	738	949	663	493	535	423	11,9
2 000 - 2 999 "	10 324	1 548	1 348	1 863	1 414	1 259	1 464	1 428	13,1
3 000 - 3 999 "	9 604	884	849	1 550	1 400	1 283	1 786	1 852	14,3
4 000 - "	8 516	725	709	1 231	1 108	1 086	1 631	2 026	15,0

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Calculations are based on area of cultivated meadow in 1989 and 1999, respectively. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

3.17. Holdings¹ using phosphorus (P) from commercial fertilizer on fully cultivated meadow the year before census, by average kg of P per decares, county and various structural classifications

	Holdings using P from commercial fertilizer on fully cultivated meadow	Holdings by average quantity of P per decares					Average quantity of P ² kg/dekar
		0,1-0,9 kg	1,0-1,4 kg	1,5-1,9 kg	2,0-2,4 kg	2,5- kg	
1988	61 112	³ ..	15 508	³ ..	21 704	23 900	2,6
1998	49 412	10 955	14 754	9 779	6 657	7 267	1,6
1998							
County							
Østfold	1 093	52	141	185	269	446	2,5
Akershus and Oslo	1 142	97	203	241	267	334	2,2
Hedmark	3 094	355	759	689	578	713	1,9
Oppland	5 655	1 074	1 786	1 176	843	776	1,6
Buskerud	2 018	392	549	441	284	352	1,7
Vestfold	704	53	136	150	145	220	2,3
Telemark	1 556	282	490	294	261	229	1,7
Aust-Agder	973	177	382	180	124	110	1,6
Vest-Agder	1 761	289	602	414	247	209	1,7
Rogaland	4 652	1 176	1 531	726	540	679	1,6
Hordaland	4 425	1 533	1 455	657	423	357	1,4
Sogn og Fjordane	4 440	1 731	1 450	652	325	282	1,3
Møre og Romsdal	4 415	1 414	1 440	681	471	409	1,4
Sør-Trøndelag	3 859	781	1 064	803	557	654	1,7
Nord-Trøndelag	3 757	601	988	715	537	916	1,9
Nordland	3 398	620	1 029	890	482	377	1,6
Troms	1 864	251	559	695	210	149	1,6
Finnmark	606	77	190	190	94	55	1,7
Agricultural area in use in 1999							
5 - 49 decares	8 100	2 436	2 750	1 346	871	697	1,4
50 - 99 "	12 115	3 098	3 965	2 452	1 370	1 230	1,4
100 - 199 "	16 921	3 593	5 094	3 490	2 312	2 432	1,6
200 - 299 "	7 879	1 335	2 074	1 622	1 264	1 584	1,7
300 - 499 "	3 535	446	757	706	664	962	1,9
500 - "	862	47	114	163	176	362	2,2
Fully cultivated meadow in 1999							
Without fully cultivated meadow ..	141	33	33	27	20	28	.
1 - 49 decares	16 197	4 252	5 004	2 949	2 096	1 896	1,5
50 - 99 "	14 527	3 300	4 527	2 908	1 797	1 995	1,5
100 - 149 "	9 563	1 898	2 767	1 944	1 341	1 613	1,6
150 - 199 "	5 011	857	1 391	1 071	768	924	1,7
200 - 249 "	2 451	379	660	527	384	501	1,8
250 - 299 "	930	149	231	211	159	180	1,8
300 - "	592	87	141	142	92	130	1,8
Holders⁴ by age group in 1999							
Legal persons	178	21	42	39	33	43	2,2
- 29 years	2 756	628	783	575	349	421	1,6
30 - 39 "	10 562	2 313	3 094	2 013	1 424	1 718	1,7
40 - 49 "	14 457	3 108	4 277	2 878	1 944	2 250	1,7
50 - 59 "	13 297	2 865	3 943	2 718	1 872	1 899	1,7
60 - 69 "	6 857	1 641	2 196	1 310	882	828	1,6
70 - "	1 305	379	419	246	153	108	1,5
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	650	112	222	134	99	83	1,6
100 - 499 "	4 895	1 013	1 584	976	695	627	1,6
500 - 999 "	6 252	1 585	2 020	1 200	766	681	1,5
1 000 - 1 499 "	5 761	1 457	1 761	1 112	726	705	1,6
1 500 - 1 999 "	4 701	1 061	1 421	964	661	594	1,6
2 000 - 2 999 "	9 956	2 226	2 858	2 017	1 374	1 481	1,6
3 000 - 3 999 "	9 147	1 854	2 647	1 841	1 253	1 552	1,7
4 000 - "	8 050	1 647	2 241	1 535	1 083	1 544	1,7

¹ Refer to holdings with at least 5.0 decares agricultural area in use. ² Calculations are based on area of cultivated meadow in 1989 and 1999, respectively. ³ For 1988 quantities of phosphorus were reported in kg without any decimal. ⁴ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

4. Horticulture

All those who fulfilled at least one of the requirements listed below were obliged to respond to the separate greenhouse and horticulture questionnaire in the 1999 Agricultural Census.

Operating at least	300 m ² greenhouse area
" "	2,0 decares of field-grown vegetables
" "	1,0 decare of fruit trees
" "	1,0 decare of field-grown berries (strawberries, raspberries, black currants or other berries)
" "	1,0 decare of nurseries

When applying for production subsidies, areas used for various horticultural crops also had to be stated. Since area was given in whole decares, some holdings actually had less than 1.0 decare of outdoor berries and fruit trees and were therefore not obliged to fill in the separate greenhouse and horticulture questionnaire. Moreover there were a few holdings that fulfilled the area requirements but had very weak production. These were not considered as respondents.

The same condition applied for field-grown vegetables as regards area given in whole decares in the application form for production subsidy. Neither those with 1 decare nor *all* those with 2 decares were obliged to fill in the horticulture questionnaire.

For the productions named above, the number of horticulture holdings, by application for production subsidies, is slightly higher than the number of holdings with the greenhouse and horticulture questionnaire. The difference is approximately 200 holdings producing fruit, the same for holdings with outdoor berries and 430 holdings with field-grown vegetables.

Among nurseries and greenhouse gardens several holdings did not apply for production subsidies. Besides, when applying for subsidies, nursery area is combined with area of field-grown flowers. However, the latter is non-significant. Consequently, the data on subsidies does not provide unambiguous information about the size of the nursery area among applicants.

4.1. Horticulture, total

There were altogether 5 105 horticulture holdings in 1999. This is a decrease of more than 2 000 holdings or barely 29 per cent since 1989. When comparing to 1979 and 1989 it should be noted that nurseries were not included in the two previous censuses and the obligation to respond for field-grown berries has been slightly changed.

Figure 4.1. Holdings in various types of horticulture. The whole country. 1979, 1989 and 1999

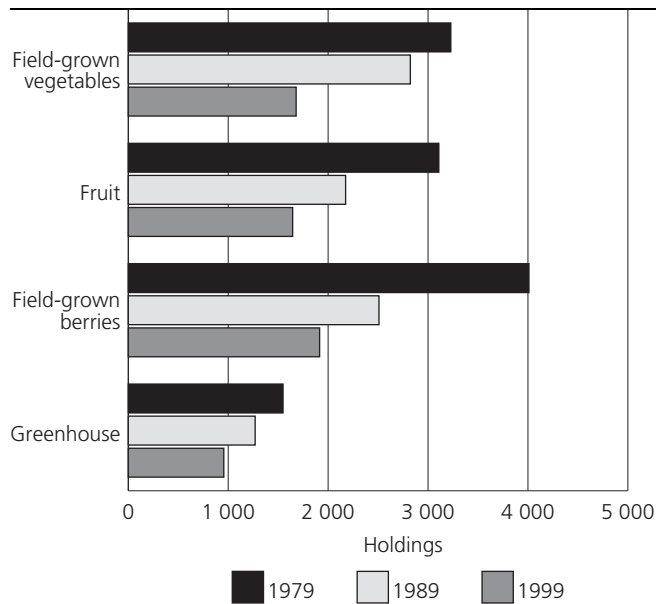
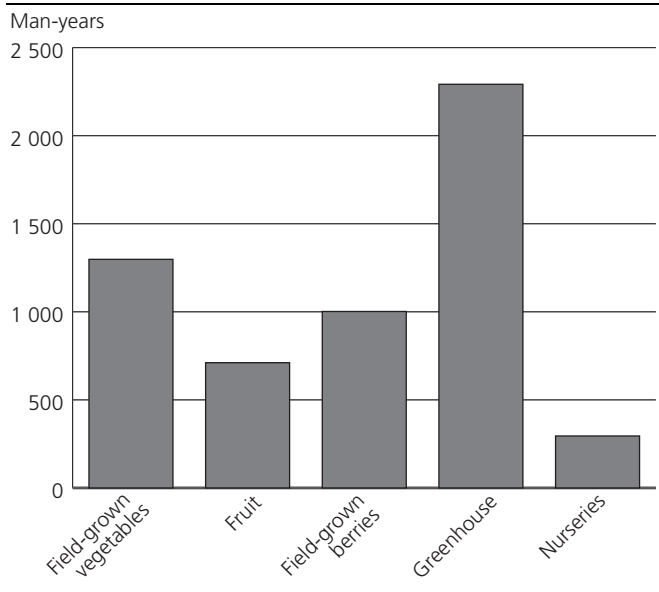


Figure 4.2. Labour input in various types of horticulture. The whole country. 1998. Man-years



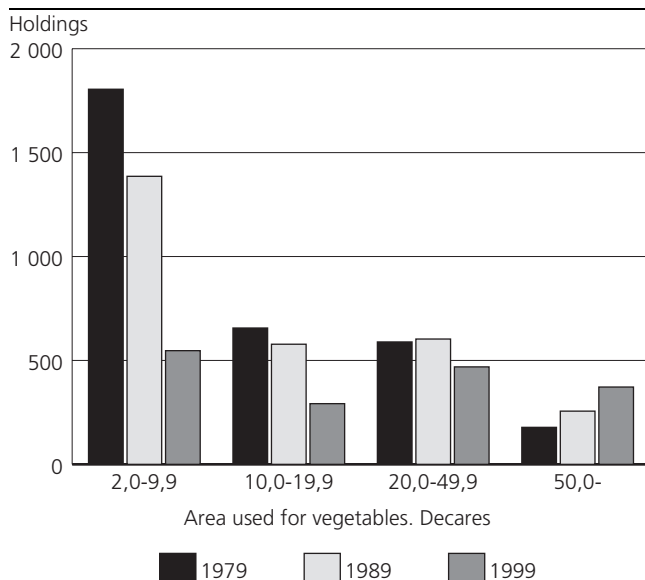
4.2. Field-grown vegetables

In 1999 there were 1 680 holdings with field-grown vegetables, versus 2 820 in 1989. The decline is particularly among holdings with less than 10 decares of vegetables. In 1999, there were 550 holdings with less than 10 decares while in 1989 there were 1 400.

Although the last 10-year period showed a decline in the number of holdings with field-grown vegetables of over 40 per cent, the area with vegetables increased by 7 per cent. As table swedes and table turnips were not considered as field-grown vegetables in 1979, the area given in 1979 is not wholly comparable with figures for 1989 and 1999.

Carrot is the most widely cultivated vegetable in 1999. Approximately 700 holdings cultivated altogether 13 000 decares of carrot. In 1979, barely 12 000 decares of respectively carrot and common cabbage were cultivated. The area with carrot had a weak increase until 1999, while the area with common cabbage has been more than halved. The area with cauliflower has also declined but one has to consider that more than one yield may have been harvested from the same area during one season. After "exploding" in the 1980's the cultivation of "salad crops" continued to increase in the 1990's. In 1999 over 5 000 decares of Chinese cabbage, iceberg lettuce and other lettuce were cultivated. This represents an increase of 1 100 decares since 1989. Broccoli is another vegetable that has shown much increase in the 1990's.

Figure 4.3. Holdings by size of area used for vegetables. The whole country. 1979, 1989 and 1999



Successive cropping of field-grown vegetables

In addition to area distribution as at 31 July, there was registration of areas where the respondent planned to harvest more than one yield during the growing season in 1999. Two or sometimes three yields may be harvested for crops with short period of growth, in parts of the country with long growing season. As in previous censuses, Chinese cabbage was the crop that was mostly cultivated in areas with double yields. The number of holdings with successive cropping was lower in 1999 than in 1989, however area used for successive cropping had increased.

4.3. Fruit

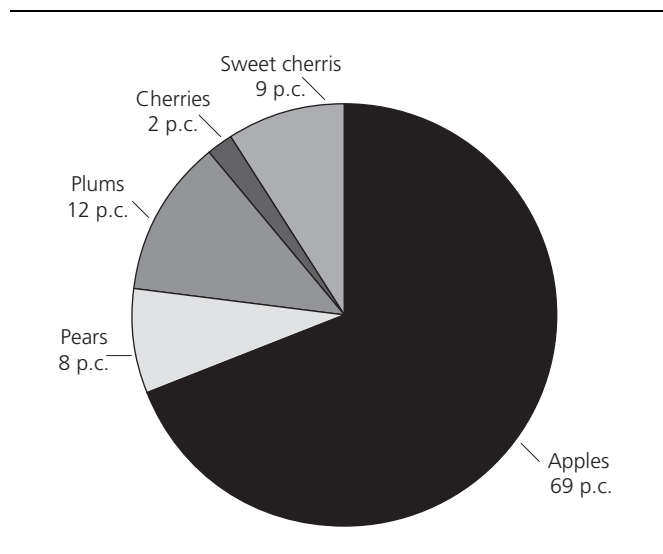
In 1999 there were 27 000 decares with fruit trees. This is 16 per cent less than in 1989 and 28 per cent less than in 1979. There may be reason to believe that some of the decline in 1979-1999 is because areas with few trees pr decare have been taken out of production or replanted more densely.

A few counties dominate fruit cultivation. In 1999, Hordaland and Sogn og Fjordane had altogether 57 per cent of the fruit tree area.

From 1989 to 1999 there has been a decline in the area with apples, pears, plums and cherries, while the area with morellos has increased. The decline in percentage has been very great for pears and cherries.

There were 1 650 holdings with fruit trees in 1999 and of these, 1 380 cultivated apples. Almost all holdings with apples cultivated medium-late or late apple varieties, while 600 of the holdings also cultivated early apples.

Figure 4.4. Area planted with fruit trees, by species. The whole country. 1999. Per cent



4.4. Field-grown berries

The area with field berries was altogether higher in 1999 than in the 1979 and 1989 censuses. The areas with strawberries and raspberries have increased while cultivation of black currants and other berries has slightly decreased.

The area requirement limits for filing for cultivation of field berries varied somewhat in 1979, 1989 and 1999. In 1979, the minimum requirements were 50 shrubs of black currants, red currants and/or gooseberries, 1.0 decare of strawberries and/or 1.0 decare of raspberries. In 1989 the minimum requirements were 1.0 decare of strawberries, 1.0 decare of raspberries and/or 1.0 decare of black currants while the minimum requirement in 1999 was altogether 1.0 decare of berries (strawberries, raspberries, black currants or other berries).

The area with field strawberries increased by over 20 per cent from 1989 to 1999, while the number of holdings with strawberries decreased by 26 per cent. In 1999, the most widespread strawberry variety was Korona, with 57 per cent of the area for strawberries producing yield. The Senga Sengana variety that cov-

ered more than 70 per cent of the area in 1989 covered only 21 per cent of the area for strawberries in 1999.

4.5. Greenhouses

In 1999 there were 957 holdings with greenhouses (excluding nursery greenhouses). The number of greenhouse holdings declined 25 per cent from 1989 to 1999 while the area with greenhouses only declined 2 per cent in the same time period. Of the total area with greenhouses of 2 002 decares in 1999, 1 832 decares had heating plants.

Sources of energy used for heating greenhouses, light, etc., have changed greatly from previous censuses. In 1998 much more electricity was used than in 1978 and 1988 while use of all types of fuel oils had greatly declined.

Of the greenhouse holdings, 950 holdings had production in 1998. Of these, 325 produced only vegetables/berries. 482 produced only flowers/plants for outdoor planting, while 143 holdings had both types of production. There was no production registered for 7 of the holdings in 1998. A detailed comparison over time of holdings with greenhouse production is difficult since the extent of culture is not the same. For example, flowers for further culture in other market gardens and plants for outdoor planting were not included in 1989.

For flowering potted plants, decorative plants and plants for outdoor planting, the number of plants for further cultivation is clearly less than the number of plants of finished products. The reason is that only plants sold for further culture in other market gardens were to be registered. "Semi-manufacture" plants were also imported from abroad for further cultivation (See definition of "further cultivation" and "finished products" in chapter 1.3).

Production of "semi-manufacture" vegetable plants comprised the production of tomato and cucumber plants and vegetable plants for field planting, mainly

cauliflower, Chinese cabbage, common cabbage, table swedes, leek and broccoli.

4.6. Nurseries

For the first time since 1969, nurseries were obliged to respond. 223 nurseries of at least 1.0 decares of nursery area were registered in 1999. Pure forest nurseries were not included in the census. 77 of the nurseries had greenhouses in addition to outdoor area.

Figure 4.5. Strawberry area, by county. 1989 and 1999. Decares

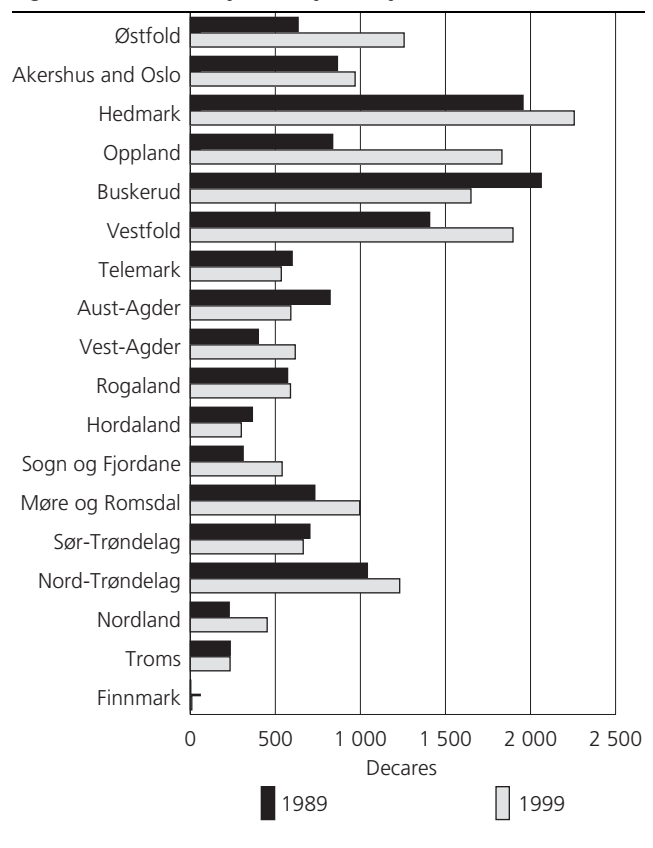


Figure 4.6. Greenhouse holdings and greenhouse area, by size of greenhouse area per holding. The whole country. 1999. Per cent

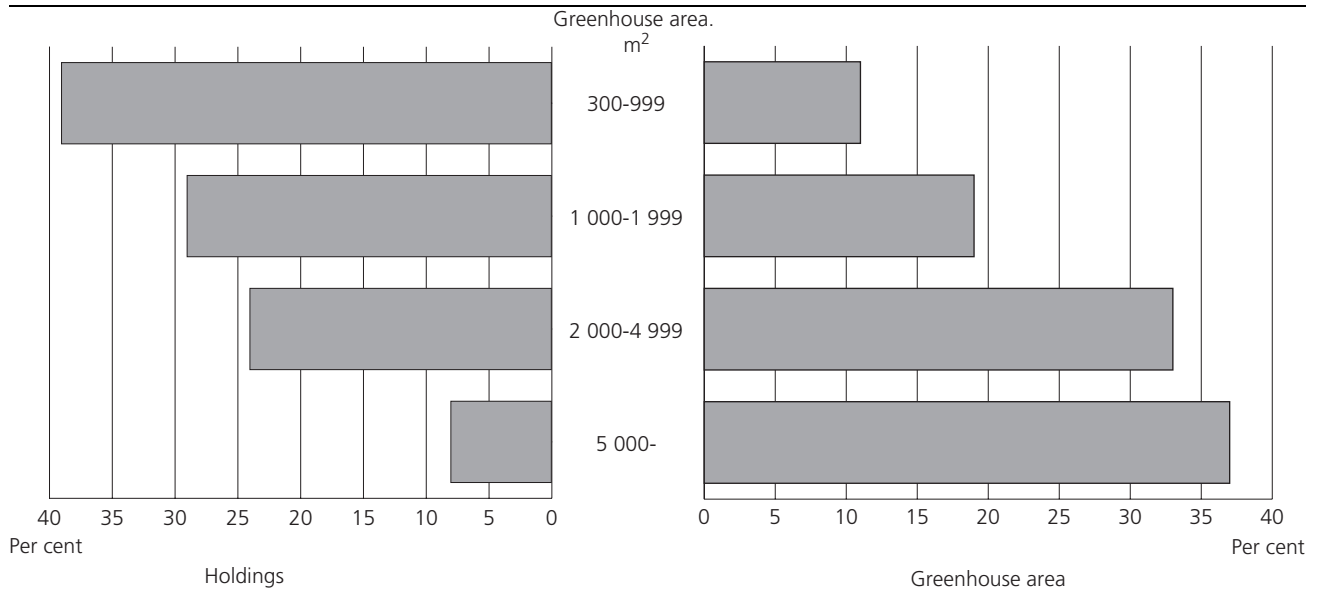
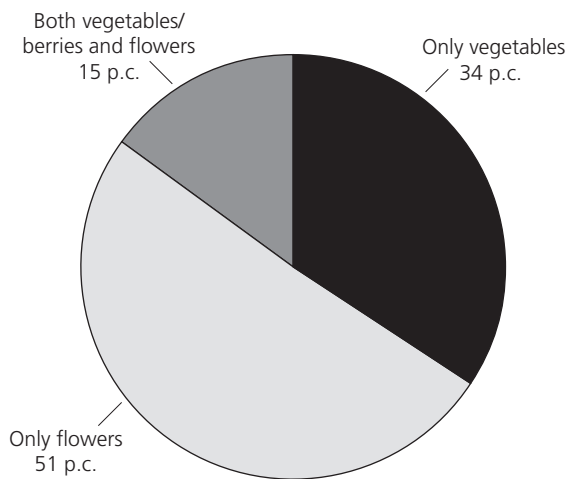


Figure 4.7. Holdings by type of greenhouse production. The whole country. 1998. Per cent



4.1. Horticulture. Holdings¹ total and holdings in various sectors of horticulture, by county and various structural classifications

	Holdings in horticulture, total	Vegetables, field grown	Fruit	Berries, field grown		Greenhouse	Nursery
				Total	Of which with strawberries		
1979	9 551	3 228	3 108	4 010	2 564	1 549	..
1989	7 141	2 823	2 175	2 509	1 737	1 270	..
1999	5 105	1 680	1 645	1 915	1 281	957	223
1999							
County							
Østfold	242	148	9	87	59	62	6
Akershus and Oslo	195	51	25	92	49	58	14
Hedmark	271	134	27	112	89	42	13
Oppland	199	102	22	87	61	33	10
Buskerud	349	133	139	126	87	83	14
Vestfold	479	298	81	117	95	82	21
Telemark	294	36	187	89	54	24	9
Aust-Agder	139	77	30	47	37	25	8
Vest-Agder	128	36	37	67	59	34	10
Rogaland	573	228	109	84	59	228	27
Hordaland	607	28	477	145	91	72	29
Sogn og Fjordane	696	58	464	369	113	20	9
Møre og Romsdal	175	42	24	94	77	43	12
Sør-Trøndelag	138	47	4	78	64	20	6
Nord-Trøndelag	299	173	10	113	92	51	16
Nordland	188	63	-	113	106	47	10
Troms	120	25	-	90	84	24	8
Finnmark	13	1	-	5	5	9	1
Agricultural area in use							
1 - 4 decares	321	6	18	24	18	274	18
5 - 49 "	1 638	257	812	642	375	303	111
50 - 99 "	975	224	443	421	273	109	42
100 - 199 "	1 010	433	263	412	293	122	30
200 - 299 "	535	307	56	223	176	68	11
300 - 499 "	427	299	35	128	103	52	7
500 - "	199	154	18	65	43	29	4
Holders² by gender							
Legal persons	191	54	27	43	24	148	28
Males	4 306	1 471	1 412	1 591	1 080	726	169
Females	608	155	206	281	177	83	26
Holders² by age group							
Legal persons	191	54	27	43	24	148	28
- 29 years	188	71	50	67	52	28	7
30 - 39 "	939	323	276	390	268	151	30
40 - 49 "	1 534	529	472	592	393	252	74
50 - 59 "	1 428	509	485	516	340	228	48
60 - 69 "	697	180	258	271	181	123	32
70 - "	128	14	77	36	23	27	4
Share of income from the holding contributed by horticulture in 1998							
- 9.9 per cent	1 385	413	426	649	389	33	19
10.0 - 49.9 "	1 423	673	395	549	386	111	37
50.0 - 89.9 "	829	360	242	315	243	218	44
90.0 - "	1 468	234	582	402	263	595	123
Total employment in horticulture on the holding in 1998							
- 99 man-hours	561	107	235	254	140	5	6
100 - 499 "	1 464	532	465	635	368	30	20
500 - 999 "	755	265	288	303	190	51	20
1 000 - 1 999 "	823	256	318	284	205	154	29
2 000 - 2 999 "	472	154	172	150	117	139	40
3 000 - 4 999 "	481	183	112	146	131	203	42
5 000 - "	549	183	55	143	130	375	66

¹ Comprise holdings which met one or more of the following conditions: At least 2.0 decares of field-grown vegetables, at least 1.0 decare of fruit trees (50 fruit trees in 1979 and 1989), at least 1.0 decare of field-grown berries (1979: at least 50 bacciferous shrubs, 1.0 decare of strawberry beds or 1.0 decare of raspberry plantations. 1989: at least 1.0 decare of black currant plantations, 1.0 decare of strawberry beds or 1.0 decare of raspberry plantations), at least 300 m² of greenhouse area (1979: included frames) or at least 1.0 decare of nursery (not reported in 1979 and 1989). ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.2. Horticulture¹. Total area and area of field-grown vegetables, fruit trees, field-grown berries, greenhouses and nurseries, by county and various structural classifications. Decares

	Horticultural area, total	Vegetables, field grown	Fruit trees	Berries, field grown		Greenhouses	Nurseries
				Total	Of which strawberries		
1979	107 975	48 407	37 735	19 768	15 172	2 065	..
1989	108 002	54 948	32 673	18 335	13 774	2 046	..
1999	112 763	58 954	27 321	21 558	16 621	2 002	2 928
1999							
County							
Østfold	6 357	4 469	69	1 623	1 257	115	81
Akershus and Oslo	3 962	1 997	170	1 156	969	174	465
Hedmark	9 984	6 710	231	2 725	2 257	64	254
Oppland	7 696	5 424	134	1 963	1 832	62	113
Buskerud	13 575	7 109	3 501	2 396	1 650	245	324
Vestfold	21 385	16 689	2 004	2 107	1 897	225	360
Telemark	6 399	1 125	3 794	1 327	535	57	96
Aust-Agder	3 342	2 211	248	632	591	55	196
Vest-Agder	1 645	688	207	666	617	46	38
Rogaland	8 609	5 873	1 068	683	589	551	434
Hordaland	10 991	114	10 105	465	300	142	165
Sogn og Fjordane	8 049	613	5 453	1 868	540	17	98
Møre og Romsdal	1 833	389	278	1 072	996	62	32
Sør-Trøndelag	1 311	378	19	761	664	24	129
Nord-Trøndelag	5 918	4 390	39	1 326	1 231	89	74
Nordland	1 196	608	-	505	452	46	37
Troms	490	165	-	272	234	22	31
Finnmark	21	3	-	11	9	6	1
Agricultural area in use							
1 - 4 decares	551	16	51	62	44	381	41
5 - 49 "	20 324	2 543	11 968	3 877	2 350	934	1 002
50 - 99 "	18 859	4 801	8 776	4 130	3 127	179	973
100 - 199 "	22 837	12 175	4 751	5 106	4 051	250	555
200 - 299 "	16 050	10 917	1 131	3 546	2 994	135	321
300 - 499 "	18 812	15 082	478	3 154	2 500	73	25
500 - "	15 329	13 419	166	1 682	1 558	50	12
Holdings² by gender							
Legal persons	2 532	908	397	186	101	443	598
Males	101 181	54 549	23 630	19 418	15 130	1 464	2 120
Females	9 049	3 496	3 293	1 954	1 391	95	211
Holdings² by age group							
Legal persons	2 532	908	397	186	101	443	598
- 29 years	4 245	2 346	707	1 057	901	76	59
30 - 39 "	20 747	11 535	4 370	4 091	3 236	269	482
40 - 49 "	37 032	20 750	7 873	7 116	5 463	479	814
50 - 59 "	34 387	18 372	8 769	6 196	4 648	445	605
60 - 69 "	12 453	4 881	4 219	2 775	2 171	237	341
70 - "	1 366	162	985	138	101	52	29
Share of income from the holding contributed by horticulture in 1998							
- 9.9 per cent	12 310	6 775	2 499	2 908	1 846	35	93
10.0 - 49.9 "	31 595	19 655	4 993	6 612	5 181	124	211
50.0 - 89.9 "	30 372	18 061	5 519	6 084	4 945	334	374
90.0 - "	38 487	14 462	14 310	5 955	4 650	1 509	2 251
Total employment in horticulture on the holding in 1998							
- 99 man-hours	4 069	2 680	796	574	292	6	13
100 - 499 "	17 160	10 264	3 736	2 932	1 402	16	212
500 - 999 "	12 119	5 612	3 833	2 561	1 513	30	83
1 000 - 1 999 "	17 444	6 793	7 102	3 238	2 477	142	169
2 000 - 2 999 "	13 697	5 463	5 575	2 308	1 710	156	195
3 000 - 4 999 "	19 068	10 532	4 392	3 345	2 941	311	488
5 000 - "	29 208	17 611	1 887	6 600	6 285	1 342	1 768

¹ Comprise holdings which met one or more of the following conditions: At least 2.0 decares of field-grown vegetables, at least 1.0 decare of fruit trees (50 fruit trees in 1979 and 1989), at least 1.0 decare of field-grown berries (1979: at least 50 bacciferous shrubs, 1.0 decare of strawberry beds or 1.0 decare of raspberry plantations. 1989: at least 1.0 decare of black currant plantations, 1.0 decare of strawberry beds or 1.0 decare of raspberry plantations), at least 300 m² of greenhouse area (1979: included frames) or at least 1.0 decare of nursery (not reported in 1979 and 1989). ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.3. Horticulture. Holdings¹, by share of income from the holding contributed by horticulture, holders² by gender, county and various structural classifications

	Holdings in horticulture, total	Proportion of income in per cent from horticultural production				Holders by gender ³		
		-9,9	10-49,9	50-89,9	90-	Legal persons	Males	Females
1978.....	9 551	2 193	2 896	1 962	2 500	195	8 875	481
1988.....	7 141	1 747	1 963	1 251	2 180	154	6 421	566
1998.....	5 105	1 385	1 423	829	1 468	191	4 306	608
1998								
County								
Østfold.....	242	74	72	40	56	7	216	19
Akershus and Oslo.....	195	55	46	28	66	12	162	21
Hedmark.....	271	86	89	45	51	13	227	31
Oppland.....	199	66	67	33	33	8	176	15
Buskerud.....	349	68	106	62	113	10	304	35
Vestfold.....	479	112	175	96	96	18	422	39
Telemark.....	294	90	62	65	77	7	245	42
Aust-Agder.....	139	29	40	37	33	6	115	18
Vest-Agder.....	128	38	27	22	41	6	110	12
Rogaland.....	573	124	188	95	166	25	497	51
Hordaland.....	607	114	115	76	302	18	515	74
Sogn og Fjordane.....	696	211	205	85	195	11	574	111
Møre og Romsdal.....	175	36	41	26	72	7	140	28
Sør-Trøndelag.....	138	51	38	17	32	7	116	15
Nord-Trøndelag.....	299	81	105	56	57	12	244	43
Nordland.....	188	84	25	30	49	12	144	32
Troms.....	120	63	19	15	23	7	92	21
Finnmark.....	13	3	3	1	6	5	7	1
Agricultural area in use in 1999								
1 - 4 decares.....	321	13	8	17	283	68	209	44
5 - 49 ".....	1 638	270	269	245	854	47	1 336	255
50 - 99 ".....	975	279	308	208	180	15	833	127
100 - 199 ".....	1 010	371	368	179	92	14	887	109
200 - 299 ".....	535	200	219	83	33	13	480	42
300 - 499 ".....	427	161	183	65	18	17	391	19
500 - ".....	199	91	68	32	8	17	170	12
Holders² by gender in 1999								
Legal persons.....	191	37	26	21	107	191	.	.
Males.....	4 306	1 160	1 246	741	1 159	.	4 306	.
Females.....	608	188	151	67	202	.	.	608
Holders² by age group in 1999								
Legal persons.....	191	37	26	21	107	191	.	.
- 29 years.....	188	55	56	17	60	.	151	37
30 - 39 ".....	939	290	277	140	232	.	771	168
40 - 49 ".....	1 534	441	465	265	363	.	1 373	161
50 - 59 ".....	1 428	373	402	249	404	.	1 285	143
60 - 69 ".....	697	163	176	123	235	.	614	83
70 - ".....	128	26	21	14	67	.	112	16
Total employment in horticulture on the holding in 1998								
- 499 man-hours.....	2 025	1 181	538	115	191	23	1 720	282
500 - 999 ".....	755	117	355	99	184	9	645	101
1 000 - 1 999 ".....	823	54	311	195	263	31	698	94
2 000 - 2 999 ".....	472	15	109	135	213	21	388	63
3 000 - 4 999 ".....	481	11	73	158	239	29	411	41
5 000 - ".....	549	7	37	127	378	78	444	27

¹ Comprise holdings which met one or more of the following conditions: At least 2.0 decares of field-grown vegetables, at least 1.0 decare of fruit trees (50 fruit trees in 1979 and 1989), at least 1.0 decare of field-grown berries (1979: at least 50 bacciferous shrubs, 1.0 decare of strawberry beds or 1.0 decare of raspberry plantations, 1989: at least 1.0 decare of black currant plantations, 1.0 decare of strawberry beds or 1.0 decare of raspberry plantations), at least 300 m² of greenhouse area (1979: included frames) or at least 1.0 decare of nursery (not reported in 1979 and 1989). ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ³ Refer to 1979, 1989 and 1999 respectively.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.4. Horticulture. Labour input in various sectors of horticulture¹ and labour input executed by foreign guest workers, by county and various structural classifications. 1998

	Labour input in horticulture		Labour input by sector					Number of holdings hiring foreign guest workers
	Total	Of which by foreign guest workers	Vegetables, field grown	Fruit	Berries, field grown	Green-houses	Nurseries	
	Man-years ²							
Total	5 599,2	1 037,3	1 297,9	711,2	1 002,2	2 292,8	295,1	1 149
County								
Østfold	348,9	75,0	131,3	1,1	61,7	142,7	12,1	63
Akershus and Oslo	325,3	42,9	46,6	3,9	40,5	200,6	33,8	44
Hedmark	330,8	111,5	89,8	4,5	128,9	76,1	31,5	71
Oppland	255,0	97,7	81,5	0,7	83,3	83,0	6,5	79
Buskerud	617,0	184,2	201,2	64,7	93,1	241,9	16,0	138
Vestfold	692,8	139,0	265,8	43,0	92,2	258,6	33,2	146
Telemark	209,3	23,8	21,6	84,8	33,6	61,3	7,9	66
Aust-Agder	195,5	26,4	67,2	4,1	30,1	68,0	26,0	32
Vest-Agder	114,3	10,0	19,0	4,0	29,4	58,3	3,6	23
Rogaland	740,8	94,5	166,0	30,6	35,2	458,9	50,2	79
Hordaland	615,3	34,8	8,0	336,2	29,2	210,6	31,4	114
Sogn og Fjordane	292,7	46,6	18,1	125,8	116,8	23,6	8,4	131
Møre og Romsdal	197,7	50,9	13,5	7,2	74,8	94,8	7,4	59
Sør-Trøndelag	141,0	39,7	9,0	0,2	55,9	68,6	7,3	26
Nord-Trøndelag	328,6	59,4	129,0	0,6	67,0	125,8	6,2	72
Nordland	116,8	0,1	22,6	-	17,8	72,0	4,5	2
Troms	69,1	0,8	7,5	-	11,8	40,8	9,0	4
Finnmark	8,2	-	0,2	-	0,9	7,2	-	-
Agricultural area in use								
1 - 4 decares	662,1	3,7	0,7	1,6	4,1	644,4	11,3	10
5 - 49 "	1 816,6	155,9	91,4	357,8	195,6	1 031,2	140,6	271
50 - 99 "	846,1	166,0	169,5	221,1	192,7	184,6	78,2	240
100 - 199 "	957,1	249,3	308,2	99,3	268,0	240,4	41,2	268
200 - 299 "	533,5	175,6	253,4	19,5	158,3	82,9	19,4	156
300 - 499 "	476,6	172,1	285,9	9,0	111,6	67,5	2,5	133
500 - "	307,1	114,7	188,7	2,8	71,9	41,8	1,9	71
Holders³ by gender								
Legal persons	690,7	38,8	25,6	10,4	6,1	597,9	50,7	17
Males	4 491,0	927,5	1 175,5	617,3	896,2	1 580,5	221,5	1 022
Females	417,5	71,1	96,8	83,5	99,8	114,4	22,9	110
Holders³ by age group								
Legal persons	690,7	38,8	25,6	10,4	6,1	597,9	50,7	17
- 29 years	182,8	41,0	43,4	14,9	44,7	71,3	8,4	40
30 - 39 "	854,8	184,1	254,2	108,1	179,3	268,2	44,9	231
40 - 49 "	1 571,7	355,7	450,2	200,7	308,8	536,5	75,5	374
50 - 59 "	1 487,2	299,0	396,5	213,8	314,7	493,4	68,7	329
60 - 69 "	691,3	102,6	121,3	133,0	137,7	254,7	44,7	146
70 - "	120,8	16,2	6,7	30,3	10,7	70,8	2,2	12
Share of income from the holding contributed by horticulture in 1998								
- 9.9 per cent	250,6	47,7	70,1	38,5	110,3	24,7	7,0	97
10.0 - 49.9 "	884,1	221,3	325,6	119,6	309,1	109,1	20,6	397
50.0 - 89.9 "	1 287,1	304,5	476,8	138,9	302,9	332,1	36,4	283
90.0 - "	3 177,3	463,9	425,4	414,2	279,7	1 826,9	231,1	372
Total employment in horticulture on the holding in 1998								
- 499 man-hours	201,7	7,6	65,7	54,7	76,3	3,8	1,2	122
500 - 999 "	274,6	30,7	82,2	84,0	86,3	17,5	4,5	172
1 000 - 1 999 "	612,8	79,0	153,8	190,1	149,5	108,7	10,7	244
2 000 - 2 999 "	599,8	92,2	145,0	172,9	107,0	151,5	23,3	167
3 000 - 4 999 "	946,9	169,9	256,8	148,2	170,1	332,9	38,9	202
5 000 - "	2 963,4	658,0	594,3	61,3	413,0	1 678,4	216,4	242

¹ Comprise holdings which met one or more of the following conditions: At least 2.0 decares of field-grown vegetables, at least 1.0 decares of fruit trees, at least 1.0 decares of field-grown berries, at least 300 m² of greenhouse area or at least 1.0 decares of nursery. ² One man-year is equal to 1 875 man-hours. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.5. Horticulture. Holdings in various sectors of horticulture¹, by way of marketing horticultural products. 1998

	Vegetables, field grown	Fruit	Berries	Greenhouse products ²	Nursery products
Total	1 680	1 645	1 915	957	223
Sales to whole-salers/commission agents	1 195	1 056	693	651	87
Of which with more than 50 per cent of sales to whole-salers/commission agents	1 070	986	528	523	49
Sales to canneries	327	149	187	3	.
Of which with more than 50 per cent of sales to canneries	218	45	132	1	.
Sales to retailers and consumers (included pick your own) . . .	462	680	1 397	483	144
Of which with more than 50 per cent of sales to retailers and consumers (included pick your own)	286	443	1 058	326	105
Other sales	111	177	200	116	64
Of which with more than 50 per cent of other sales	45	121	107	68	49

¹ Comprise holdings which met one or more of the following conditions: At least 2.0 decares of field-grown vegetables, at least 1.0 decare of fruit trees, at least 1.0 decare of field-grown berries, at least 300 m² of greenhouse area or at least 1.0 decare of nursery. ² 7 holdings are missing information.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

4.6. Horticulture. Holdings¹ with investments and invested amount during the period 1996-1998 in greenhouses and other buildings used for horticultural production, by county and various structural classifications

	Holdings with investments				Invested amount (VAT not included)			
	Total	In greenhouses, incl. fittings and heating systems	In buildings with refrigerated rooms, cold storage, work rooms, packing plant, store-rooms etc.		Total	Greenhouses, incl. fittings and heating systems	Buildings with refrigerated rooms, cold storage, work rooms, packing plant, store-rooms etc.	
			Total	Of which refrigerated rooms or cold storage			Total	Of which refrigerated rooms or cold storage
	NOK 1 000							
Total	740	440	411	202	452 165	330 778	121 387	38 534
County								
Østfold	47	28	28	11	30 891	21 915	8 976	1 900
Akershus and Oslo	47	26	28	15	57 282	50 422	6 860	2 209
Hedmark	41	17	29	17	16 452	11 688	4 764	1 513
Oppland	24	14	12	6	26 111	5 504	20 607	10 083
Buskerud	66	35	41	25	46 551	31 739	14 812	3 840
Vestfold	78	43	47	24	39 281	24 566	14 715	6 676
Telemark	16	6	13	7	5 862	4 582	1 280	596
Aust-Agder	20	12	11	7	14 072	8 687	5 385	830
Vest-Agder	17	12	8	5	2 241	2 001	240	170
Rogaland	160	112	70	30	98 714	81 496	17 218	5 514
Hordaland	65	42	36	12	32 100	27 220	4 880	801
Sogn og Fjordane	31	9	25	12	9 887	2 992	6 895	649
Møre og Romsdal	31	20	15	7	12 393	10 558	1 835	476
Sør-Trøndelag	14	:	:	:	6 867	:	:	:
Nord-Trøndelag	44	27	23	14	38 888	34 071	4 817	2 667
Nordland	23	16	11	4	8 952	6 942	2 010	170
Troms	11	8	6	4	4 814	2 556	2 258	410
Finnmark	5	:	:	:	807	:	:	:
Greenhouse area								
- 299 m ² ²	275	13	265	135	46 137	1 160	44 977	15 940
300 - 999 "	131	118	41	20	28 449	21 699	6 750	1 254
1 000 - 1 999 "	129	117	36	20	55 607	45 398	10 209	2 741
2 000 - 4 999 "	143	133	48	18	129 633	110 110	19 523	4 530
5 000 - "	62	59	21	9	192 339	152 411	39 928	14 069
Holders³ by gender								
Legal persons	76	71	24	11	117 341	84 468	32 873	13 477
Males	601	333	353	173	320 228	236 814	83 414	23 624
Females	63	36	34	18	14 596	9 496	5 100	1 433
Holders³ by age group								
Legal persons	76	71	24	11	117 341	84 468	32 873	13 477
- 29 years	19	14	7	4	10 806	10 325	481	213
30 - 39 "	137	77	82	41	53 957	38 435	15 522	6 078
40 - 49 "	241	132	142	74	113 142	73 818	39 324	9 562
50 - 59 "	188	97	117	49	125 911	97 645	28 266	6 963
60 - 69 "	69	42	34	23	28 272	23 501	4 771	2 241
70 - "	10	7	5	-	2 736	2 586	150	-
Share of income from the holding contributed by horticulture in 1998								
- 9.9 per cent	48	11	38	19	12 925	3 843	9 082	1 721
10.0 - 49.9 "	142	46	103	57	31 293	16 332	14 961	6 019
50.0 - 89.9 "	167	98	97	48	61 333	40 395	20 938	6 074
90.0 - "	383	285	173	78	346 614	270 208	76 406	24 720
Total employment in horticulture on the holding								
- 499 man-hours	61	9	53	21	10 154	838	9 316	849
500 - 999 "	73	22	54	27	7 830	2 784	5 046	1 580
1 000 - 1 999 "	107	49	64	34	22 667	14 364	8 303	2 126
2 000 - 2 999 "	80	46	43	17	22 009	16 730	5 279	1 230
3 000 - 4 999 "	147	89	74	38	57 567	41 005	16 562	8 658
5 000 - "	272	225	123	65	331 938	255 057	76 881	24 091

¹ Comprise holdings which met one or more of the following conditions: At least 2.0 decares of field-grown vegetables, at least 1.0 decare of fruit trees, at least 1.0 decare of field-grown berries, at least 300 m² of greenhouse area or at least 1.0 decare of nursery. ² Comprise holdings which did not meet the filing requirement for greenhouse but met filing requirements for other types of horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

4.7. Vegetables, field grown. Holdings, by area of vegetables¹, use of covers, county and various structural classifications

	Holdings with field-grown vegetables, total	By area of vegetables in decares				By use of covers			
		2.0-9.9	10.0-19.9	20.0-49.9	50.0-	Total	Horticultural fabrics	Plastic	Combination of horticultural fabrics, plastic or other covers
1979.....	3 228	1 805	656	589	178	558	..	..	..
1989.....	2 823	1 386	578	603	256	713	..	..	..
1999.....	1 680	547	292	469	372	627	443	234	100
1999									
County									
Østfold.....	148	40	34	48	26	89	54	48	17
Akershus and Oslo.....	51	13	10	15	13	19	13	6	3
Hedmark.....	134	22	19	40	53	24	18	4	2
Oppland.....	102	24	13	34	31	28	20	11	4
Buskerud.....	133	34	20	35	44	77	69	12	6
Vestfold.....	298	36	29	107	126	81	45	58	16
Telemark.....	36	13	8	8	7	11	10	2	1
Aust-Agder.....	77	19	19	25	14	32	23	13	12
Vest-Agder.....	36	12	13	8	3	16	14	6	3
Rogaland.....	228	93	46	61	28	98	55	40	24
Hordaland.....	28	26	2	-	-	7	5	3	-
Sogn og Fjordane.....	58	37	14	5	2	18	14	4	5
Møre og Romsdal.....	42	28	9	5	-	6	4	1	1
Sør-Trøndelag.....	47	36	7	3	1	11	9	3	-
Nord-Trøndelag.....	173	50	36	64	23	76	65	14	2
Nordland.....	63	43	9	10	1	21	17	4	2
Troms.....	25	20	4	1	-	13	8	5	2
Finnmark.....	1	1	-	-	-	-	-	-	-
Agricultural area in use									
1 - 4 decares.....	6	6	.	.	.	3	1	2	1
5 - 49 ".....	257	159	59	39	.	92	69	23	9
50 - 99 ".....	224	91	43	61	29	101	69	35	15
100 - 199 ".....	433	145	77	131	80	172	112	71	29
200 - 299 ".....	307	83	47	109	68	114	88	46	25
300 - 499 ".....	299	45	51	93	110	95	67	37	15
500 - ".....	154	18	15	36	85	50	37	20	6
Share of income from the holding contributed by field-grown vegetables in 1998									
- 9.9 per cent.....	532	322	90	78	42	125	76	38	20
10.0 - 49.9 ".....	742	178	142	282	140	286	204	105	44
50.0 - 89.9 ".....	284	30	41	85	128	137	103	61	27
90.0 - ".....	122	17	19	24	62	79	60	30	9
Employment in production of field-grown vegetables in 1998									
- 499 man-hours.....	777	424	134	135	84	165	97	64	21
500 - 999 ".....	283	77	89	101	16	97	66	31	13
1 000 - 1 999 ".....	257	35	47	135	40	125	97	46	27
2 000 - 2 999 ".....	125	8	15	50	52	75	53	26	10
3 000 - 4 999 ".....	134	3	7	36	88	91	66	41	16
5 000 - ".....	104	-	-	12	92	74	64	26	13

¹ Comprise holdings with at least 2.0 decares of field-grown vegetables.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.8. Vegetables, field grown. Area of vegetables¹, by size of area used for vegetables per holding, use of covers, county and various structural classifications. Decares

	Field-grown vegetables, total	By area used for vegetables in decares per holding				By use of covers			
		2.0-9.9	10.0-19.9	20.0-49.9	50.0-	Total	Horticultural fabrics	Plastic	Combination of horticultural fabrics, plastic or other covers
1979	48 407	8 279	8 704	17 762	13 662	3 674	..	..	..
1989	54 948	6 316	7 669	18 537	22 427	7 017	..	..	..
1999	58 954	2 447	3 868	14 556	38 083	11 279	6 573	3 455	1 252
1999									
County									
Østfold	4 469	213	482	1 428	2 346	1 253	556	543	154
Akershus and Oslo	1 997	59	139	502	1 297	258	154	81	23
Hedmark	6 710	95	265	1 353	4 997	431	317	89	26
Oppland	5 424	97	175	1 006	4 145	906	739	156	11
Buskerud	7 109	166	263	1 069	5 611	1 961	1 749	165	48
Vestfold	16 689	144	375	3 468	12 703	1 874	576	1 090	208
Telemark	1 125	59	98	251	717	132	95	27	10
Aust-Agder	2 211	86	247	814	1 064	535	191	162	182
Vest-Agder	688	46	158	232	252	126	77	28	21
Rogaland	5 873	467	594	1 794	3 019	2 174	863	798	514
Hordaland	114	92	22	-	-	12	8	4	0
Sogn og Fjordane	613	157	181	147	128	128	80	15	33
Møre og Romsdal	389	129	120	140	-	14	10	3	1
Sør-Trøndelag	378	151	98	74	55	43	40	3	-
Nord-Trøndelag	4 390	251	475	1 970	1 694	1 260	1 063	184	14
Nordland	608	146	126	281	56	138	42	94	2
Troms	165	87	51	27	-	37	16	15	6
Finnmark	3	3	-	-	-	-	-	-	-
Agricultural area in use									
1 - 4 decares	16	16	.	.	.	10	3	4	3
5 - 49 "	2 543	692	743	1 109	.	468	269	164	35
50 - 99 "	4 801	390	596	1 944	1 872	1 058	613	337	109
100 - 199 "	12 175	633	1 030	4 040	6 473	2 795	1 370	996	429
200 - 299 "	10 917	423	634	3 538	6 323	2 329	1 319	720	290
300 - 499 "	15 082	214	677	2 805	11 387	2 133	1 267	758	107
500 - "	13 419	79	190	1 121	12 029	2 487	1 732	476	279
Share of income from the holding contributed by field-grown vegetables in 1998									
- 9.9 per cent	7 955	1 287	1 150	2 258	3 261	808	505	218	85
10.0 - 49.9 "	23 161	896	1 948	8 740	11 578	3 686	2 019	1 245	422
50.0 - 89.9 "	17 973	155	530	2 780	14 509	3 132	1 702	1 127	303
90.0 - "	9 865	109	241	779	8 737	3 654	2 347	865	442
Employment in production of field-grown vegetables in 1998									
- 499 man-hours	14 341	1 787	1 729	4 162	6 665	972	408	494	70
500 - 999 "	6 381	392	1 196	2 962	1 831	784	400	302	83
1 000 - 1 999 "	8 306	192	635	4 091	3 388	1 977	1 249	539	190
2 000 - 2 999 "	6 083	52	209	1 589	4 234	1 477	863	452	162
3 000 - 4 999 "	9 544	24	100	1 331	8 089	2 018	880	908	230
5 000 - "	14 299	-	-	422	13 877	4 051	2 774	760	517

¹ Comprise holdings with at least 2.0 decares of field-grown vegetables.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.9. Vegetables, field grown¹. Area with successive crops (double crops) in the same growing season. 1999

	Holdings with successive crops	Area with successive crops ²					
		Total	Chinese cabbage	Cauliflower	Iceberg lettuce	Broccoli	Other vegetables
Total	115	6 700	2 243	1 512	1 409	370	1 166
County							
Buskerud	45	3 056	1 359	931	543	45	178
Vestfold	14	402	108	30	60	58	147
Rogaland	18	1 949	576	415	712	126	121
Nord-Trøndelag	10	218	75	84	2	10	47
Other counties	28	1 075	125	53	92	131	674

¹Comprise holdings with at least 2.0 decares of field-grown vegetables. ²Included area of main crop.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.10. Vegetables, field grown. Cultivation of various kinds of vegetables¹. 1999

	Holdings which cultivated vegetable concerned	By total area of vegetables in decares				Area of vegetable concerned	Average area per holding of vegetable concerned
		2.0- 9.9	10.0-19.9	20.0-49.9	50.0-		
Total	1680	547	292	469	372	58 954	35
Kind of vegetables							
Onions	221	47	29	66	79	5 541	25
Leeks	245	82	52	65	46	1 344	5
Beetroots	78	28	8	25	17	670	9
Common cabbage harvested before 1 August	206	56	28	56	66	1 466	7
Common cabbage harvested 1 August or later	385	108	63	114	100	3 947	10
Red cabbage	62	10	10	21	21	299	5
Brussels sprouts	114	35	17	27	35	1 831	16
Cauliflower	333	96	48	84	105	4 882	15
Broccoli	215	71	40	53	51	2 121	10
Chinese cabbage	151	16	20	47	68	2 967	20
Turnips	53	31	9	8	5	164	3
Table swedes	484	181	107	123	73	5 367	11
Processing peas and beans	132	4	1	33	94	8 310	63
Radishes	26	13	3	5	5	252	10
Sweet corn	63	26	13	15	9	434	7
Gherkin	86	15	20	28	23	766	9
Carrots	695	242	129	192	132	13 182	19
Root celery	99	25	13	23	38	636	6
Celery	68	22	7	13	26	368	5
Turnip-rooted parsley	37	7	11	10	9	167	5
Curled parsley	63	30	11	11	11	293	5
Iceberg lettuce	101	21	11	24	45	2 091	21
Other lettuce	49	21	9	6	13	179	4
Other vegetables	285	154	44	43	44	1 678	6

¹Comprise holdings with at least 2.0 decares of field-grown vegetables.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.11. Vegetables, field grown¹. Cultivation of carrots, common cabbage, cauliflower, table swedes and turnips, by county and various structural classifications

	Carrots		Common cabbage		Cauliflower		Table swedes and turnips	
	Holdings	Area	Holdings	Area	Holdings	Area	Holdings	Area
		Decares		Decares		Decares		Decares
1979	1 722	11 897	1 707	11 934	1 162	6 059	..	..
1989	1 197	11 678	1 030	7 829	873	5 781	954	4 780
1999	695	13 182	465	5 413	333	4 882	505	5 530
1999								
County								
Østfold	39	558	48	937	19	105	24	234
Akershus and Oslo	15	197	11	135	12	199	21	717
Hedmark	57	1 922	28	287	33	509	15	304
Oppland	29	1 326	30	511	15	196	35	822
Buskerud	20	251	50	836	49	1 759	17	245
Vestfold	114	3 134	58	947	40	823	52	537
Telemark	16	201	15	105	14	227	14	160
Aust-Agder	22	398	43	483	8	44	10	121
Vest-Agder	23	214	14	75	11	42	14	43
Rogaland	121	2 547	46	358	35	362	85	760
Hordaland	11	19	9	7	11	7	15	22
Sogn og Fjordane	31	227	19	45	19	55	26	105
Møre og Romsdal	27	185	5	4	4	3	32	186
Sør-Trøndelag	29	180	4	24	4	9	16	101
Nord-Trøndelag	73	1 435	60	601	43	528	76	918
Nordland	49	328	16	51	11	11	32	177
Troms	19	60	9	8	5	4	21	78
Finnmark	-	-	-	-	-	-	-	-
Area of field-grown vegetables								
2.0 - 9.9 decares	242	633	134	232	96	119	197	528
10.0 - 19.9 "	129	1 209	74	397	48	182	108	747
20.0 - 49.9 "	192	4 248	135	1 710	84	924	125	1 675
50.0 - "	132	7 093	122	3 073	105	3 657	75	2 581
Share of income from the holding contributed by field-grown vegetables in 1998								
- 9.9 per cent	215	1 822	108	378	64	156	172	903
10.0 - 49.9 "	317	5 799	200	2 267	143	1 555	219	2 513
50.0 - 89.9 "	120	3 863	111	2 070	89	1 668	83	1 776
90.0 - "	43	1 697	46	698	37	1 504	31	338
Employment in production of field-grown vegetables in 1998								
- 499 man-hours	310	3 015	136	531	91	272	220	1 273
500 - 999 "	124	2 251	73	620	50	405	83	647
1 000 - 1 999 "	111	2 779	84	724	64	614	87	1 086
2 000 - 2 999 "	53	1 182	56	773	34	480	44	942
3 000 - 4 999 "	56	2 146	62	1 216	44	1 025	47	1 102
5 000 - "	41	1 809	54	1 549	50	2 086	24	481

¹ Comprise holdings with at least 2.0 decares of field-grown vegetables.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.12. Fruit. Holdings¹ by area of fruit trees, county and various structural classifications

	Holdings which cultivated fruit, total	By area of fruit trees in decares					
		1.0-4.9 ²	5.0-9.9	10.0-19.9	20.0-29.9	30.0-49.9	50.0-
1979.....	3 108	1 044	828	626	302	234	74
1989.....	2 175	478	529	591	288	216	73
1999.....	1 645	479	276	389	208	204	89
1999							
County							
Buskerud.....	139	42	20	27	14	12	24
Vestfold.....	81	22	8	17	9	14	11
Telemark.....	187	51	27	44	20	21	24
Rogaland.....	109	43	27	23	11	4	1
Hordaland.....	477	64	55	128	96	113	21
Sogn og Fjordane.....	464	143	104	125	56	31	5
Other counties.....	188	114	35	25	2	9	3
Agricultural area in use							
1 - 4 decares.....	18	18	.	.	.	.	.
5 - 49 ".....	812	186	134	255	121	116	.
50 - 99 ".....	443	133	72	74	52	57	55
100 - 199 ".....	263	90	48	49	29	23	24
200 - 299 ".....	56	25	9	8	3	6	5
300 - 499 ".....	35	18	9	2	-	1	5
500 - ".....	18	9	4	1	3	1	-
Share of income from the holding contributed by production of fruit in 1998							
- 9.9 per cent.....	635	409	136	66	11	8	5
10.0 - 49.9 ".....	373	51	82	129	69	34	8
50.0 - 89.9 ".....	213	5	18	56	48	57	29
90.0 - ".....	424	14	40	138	80	105	47
Employment in production of fruit in 1998							
- 499 man-hours.....	896	473	225	159	27	11	1
500 - 999 ".....	259	6	41	142	53	15	2
1 000 - 1 999 ".....	278	-	8	74	94	82	20
2 000 - 2 999 ".....	127	-	2	11	29	56	29
3 000 - 4 999 ".....	74	-	-	3	5	35	31
5 000 - ".....	11	-	-	-	-	5	6

¹ Comprise holdings with at least 1.0 decares of fruit trees (50 fruit trees in 1979 and 1989). ² In 1979 and 1989 this group comprise a few holdings with 50 fruit trees or more covering less than 1.0 decares.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.13. Fruit. Area used for fruit trees, by size of fruit tree plantation per holding¹, county and various structural classifications. Decares

	Area of fruit trees, total	By area of fruit tree plantation in decares per holding						Average area of fruit trees per holding
		1.0-4.9 ²	5.0-9.9	10.0-19.9	20.0-29.9	30.0-49.9	50.0-	
1979	37 735	2 914	5 302	8 124	6 866	8 586	5 943	12
1989	32 673	1 422	3 537	7 987	6 735	7 790	5 203	15
1999	27 321	1 131	1 885	5 255	5 007	7 569	6 474	17
1999								
County								
Buskerud	3 501	100	130	381	342	445	2 103	25
Vestfold	2 004	49	52	244	219	534	907	25
Telemark	3 794	113	176	599	461	724	1 722	20
Rogaland	1 068	91	189	305	265	161	57	10
Hordaland	10 105	175	393	1 738	2 345	4 235	1 219	21
Sogn og Fjordane	5 453	330	705	1 666	1 333	1 134	286	12
Other counties	1 396	273	240	322	42	337	180	7
Agricultural area in use								
1 - 4 decares	51	51	.	.	.	.	.	3
5 - 49 "	11 968	439	904	3 423	2 924	4 278	.	15
50 - 99 "	8 776	319	515	1 018	1 237	2 181	3 507	20
100 - 199 "	4 751	206	315	665	706	826	2 033	18
200 - 299 "	1 131	56	60	106	69	215	626	20
300 - 499 "	478	37	61	32	-	39	309	14
500 - "	166	24	30	12	70	30	-	9
Share of income from the holding contributed by fruit in 1998								
- 9.9 per cent	3 483	918	907	840	252	278	287	5
10.0 - 49.9 "	5 743	148	583	1 720	1 636	1 207	449	15
50.0 - 89.9 "	6 313	16	118	790	1 151	2 136	2 103	30
90.0 - "	11 782	49	278	1 905	1 968	3 948	3 635	28
Employment in production of fruit in 1998								
- 499 man-hours	5 704	1 110	1 505	2 014	625	396	54	6
500 - 999 "	4 177	21	304	1 946	1 254	527	124	16
1 000 - 1 999 "	7 662	-	62	1 095	2 278	2 913	1 315	28
2 000 - 2 999 "	4 912	-	14	160	732	2 130	1 876	39
3 000 - 4 999 "	3 936	-	-	41	117	1 396	2 382	53
5 000 - "	930	-	-	-	-	208	723	85

¹ Comprise holdings with at least 1.0 decares of fruit trees (50 fruit trees in 1979 and 1989). ² In 1979 and 1989 this group comprise a few holdings with 50 fruit trees or more covering less than 1.0 decares.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.14. Fruit. Holdings¹ which cultivated fruit, by species of fruit trees, county and various structural classifications

	Holdings which cultivated fruit, total	Apples	Pears	Plums	Cherries	Sweet cheris
1979	3 108	3 013	2 573	2 803	937	1 393
1989	2 175	2 049	1 320	1 514	561	815
1999	1 645	1 379	568	851	129	561
1999						
County						
Buskerud	139	119	11	59	21	17
Vestfold	81	57	10	31	11	28
Telemark	187	159	20	22	13	55
Rogaland	109	71	38	69	3	32
Hordaland	477	433	223	364	37	302
Sogn og Fjordane	464	415	227	239	10	66
Other counties	188	125	39	67	34	61
Agricultural area in use						
1 - 4 decares	18	13	4	4	1	7
5 - 49 "	812	694	318	478	60	310
50 - 99 "	443	379	164	234	31	141
100 - 199 "	263	215	66	91	18	72
200 - 299 "	56	41	13	25	8	17
300 - 499 "	35	23	2	13	8	10
500 - "	18	14	1	6	3	4
Area of fruit trees						
1.0 - 4.9 decares	479	299	77	144	47	116
5.0 - 9.9 "	276	218	83	130	13	75
10.0 - 19.9 "	389	369	164	226	32	121
20.0 - 29.9 "	208	203	115	147	5	96
30.0 - 49.9 "	204	202	103	150	16	119
50.0 - "	89	88	26	54	16	34
Share of income from the holding contributed by fruit in 1998						
- 9.9 per cent	635	438	134	231	57	168
10.0 - 49.9 "	373	337	148	188	14	95
50.0 - 89.9 "	213	203	89	132	23	92
90.0 - "	424	401	197	300	35	206
Employment in production of fruit in 1998						
- 499 man-hours	896	660	225	339	71	216
500 - 999 "	259	243	110	149	13	70
1 000 - 1 999 "	278	268	123	196	22	144
2 000 - 2 999 "	127	123	66	101	12	75
3 000 - 4 999 "	74	74	40	57	8	49
5 000 - "	11	11	4	9	3	7

¹ Comprise holdings with at least 1.0 decares of fruit trees (50 fruit trees in 1979 and 1989).

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

4.15. Fruit. Area¹ of fruit trees, by species of fruit trees, county and various structural classifications. Decares

	Area of fruit trees, total	Apples	Pears	Plums	Cherries	Sweet cherries
1979	37 735	..	..	..	..	..
1989	32 673	22 580	4 067	3 461	830	1 736
1999	27 321	18 948	2 224	3 195	471	2 482
1999						
County						
Buskerud	3 501	2 983	15	267	160	76
Vestfold	2 004	1 471	22	249	85	177
Telemark	3 794	3 339	38	52	86	279
Rogaland	1 068	556	146	249	4	113
Hordaland	10 105	6 390	742	1 493	41	1 439
Sogn og Fjordane	5 453	3 461	1 183	657	13	139
Other counties	1 395	749	79	227	82	259
Agricultural area in use						
1 - 4 decares	51	26	4	5	1	15
5 - 49 "	11 968	7 679	1 257	1 639	74	1 319
50 - 99 "	8 776	6 218	636	1 026	188	709
100 - 199 "	4 751	3 649	269	381	144	308
200 - 299 "	1 131	882	51	76	28	95
300 - 499 "	478	370	5	50	28	26
500 - "	166	123	4	19	9	11
Area of fruit trees						
1.0 - 4.9 decares	1 131	549	92	213	70	207
5.0 - 9.9 "	1 885	1 065	181	349	28	262
10.0 - 19.9 "	5 255	3 491	580	680	40	466
20.0 - 29.9 "	5 007	3 373	588	564	2	480
30.0 - 49.9 "	7 569	5 409	618	853	15	676
50.0 - "	6 474	5 062	166	537	316	392
Share of income from the holding contributed by fruit in 1998						
- 9.9 per cent	3 483	2 133	317	504	86	442
10.0 - 49.9 "	5 743	4 119	604	642	21	357
50.0 - 89.9 "	6 313	4 509	414	707	165	518
90.0 - "	11 782	8 188	889	1 342	199	1 165
Employment in production of fruit in 1998						
- 499 man-hours	5 704	3 593	604	762	117	628
500 - 999 "	4 177	2 982	451	480	11	253
1 000 - 1 999 "	7 662	5 384	625	880	118	655
2 000 - 2 999 "	4 912	3 401	342	579	125	464
3 000 - 4 999 "	3 936	2 864	180	393	83	417
5 000 - "	930	725	22	101	18	65

¹ Comprise area on holdings with at least 1.0 decares of fruit trees (50 fruit trees in 1979 and 1989).

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

4.16. Fruit. Various species and varieties by planting period¹. 1999

	Holdings which cultivated various species and varieties	Area of fruit trees			
		Total	By planting period		
			-1984	1985-1994	1995-1999
			Decares		
Fruit trees, total	1 645	27 321	9 536	12 363	5 422
Apple trees, total	1 379	18 948	6 328	9 152	3 468
Early apples, total	600	2 023	347	897	779
Discovery	279	535	21	213	302
Julyred	131	395	37	221	138
Vista Bella	144	287	13	153	122
Quinte	239	359	158	165	36
Other early apple varieties	217	447	118	146	182
Medium late and late apple varieties, total	1 369	16 925	5 982	8 255	2 688
Ordinary and Red Prince	476	1 220	458	561	200
Ordinary Gravenstein	689	2 074	1 051	775	247
Red Gravenstein	772	3 257	1 473	1 558	226
Summer red	822	2 525	657	1 400	469
Aroma	1 011	4 846	1 153	2 718	975
Åkerø	300	1 241	339	643	259
Lobo	162	578	260	242	76
Other medium late apple varieties	192	360	107	149	105
Other late apple varieties	385	826	485	210	132
Pears, total	568	2 224	1 409	709	106
Keiserinne	108	159	109	49	2
Amanlis	140	298	190	91	16
Moltke	403	812	597	192	23
Philip	327	606	340	237	29
Clara Frijs	118	154	68	75	12
Other pear varieties	160	196	105	65	26
Plums, total	851	3 195	1 016	1 350	829
Early plums	118	105	51	39	14
Edda	295	268	68	117	83
Opal	596	989	300	456	233
Victoria	596	1 006	370	433	203
Mallard	354	432	79	194	159
Other plum varieties	320	397	148	112	137
Cherries	129	471	99	313	59
Sweet cherries	561	2 482	684	839	959

¹ Comprise holdings with at least 1.0 decares of fruit trees.Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

4.17. Berries, field grown. Holdings¹ with berries, by species, county and various structural classifications

	Holdings with field-grown berries, total	Strawberries	Raspberries	Black currants	Cultivated blue-berries	Other berries
1979	4 010	2 564	798	1 166	..	1 004
1989	2 509	1 737	801	318	..	..
1999	1 915	1 281	651	185	77	147
1999						
County						
Østfold	87	59	14	9	7	3
Akershus and Oslo	92	49	36	4	11	7
Hedmark	112	89	19	22	:	7
Oppland	87	61	23	7	-	8
Buskerud	126	87	38	15	3	10
Vestfold	117	95	30	8	4	5
Telemark	89	54	15	27	5	:
Aust-Agder	47	37	7	:	5	4
Vest-Agder	67	59	8	3	5	6
Rogaland	84	59	15	10	6	13
Hordaland	145	91	61	13	8	21
Sogn og Fjordane	369	113	305	19	16	19
Møre og Romsdal	94	77	21	8	:	10
Sør-Trøndelag	78	64	17	11	4	6
Nord-Trøndelag	113	92	25	9	-	7
Nordland	113	106	11	7	-	11
Troms	90	84	6	10	-	7
Finnmark	5	5	-	:	:	:
Agricultural area in use						
1 - 4 decares	24	18	6	1	1	2
5 - 49 "	642	375	285	70	19	62
50 - 99 "	421	273	154	36	16	27
100 - 199 "	412	293	126	23	24	22
200 - 299 "	223	176	43	30	9	15
300 - 499 "	128	103	24	16	5	8
500 - "	65	43	13	9	3	11
Share of income from the holding contributed by field-grown berries in 1998						
- 9.9 per cent	916	547	296	107	51	102
10.0 - 49.9 "	607	444	217	39	13	21
50.0 - 89.9 "	224	171	83	19	8	15
90.0 - "	168	119	55	20	5	9
Employment in production of field-grown berries in 1998						
- 499 man-hours	1 159	664	430	143	49	111
500 - 999 "	287	199	107	22	12	16
1 000 - 1 999 "	227	191	63	11	6	15
2 000 - 2 999 "	85	74	24	6	6	4
3 000 - 4 999 "	89	85	17	2	3	1
5 000 - "	68	68	10	1	1	-

¹ Comprise holdings with at least 1.0 decares of field-grown berries (1979: at least 50 bacciferous shrubs, 1.0 decares of strawberry beds or 1.0 decares of raspberry plantations. 1989: at least 1.0 decares of black currant plantations, 1.0 decares of strawberry beds or 1.0 decares of raspberry plantations).

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/ft1999_en/.

4.18. Berries, field grown. Area of berries, by species¹, county and various structural classifications. Decares

	Area of field-grown berries, total	Strawberries	Raspberries	Black currants	Cultivated blueberries	Other berries
1979	19 768	15 172	1 761	2 451	..	384
1989	18 335	13 774	1 924	2 637	..	..
1999	21 558	16 621	2 382	2 000	244	311
1999						
County						
Østfold	1 623	1 257	51	234	79	3
Akershus and Oslo	1 156	969	146	1	23	17
Hedmark	2 725	2 257	33	403	:	:
Oppland	1 963	1 832	87	34	-	11
Buskerud	2 396	1 650	333	368	16	30
Vestfold	2 107	1 897	80	94	14	23
Telemark	1 327	535	44	700	:	:
Aust-Agder	632	591	23	:	13	:
Vest-Agder	666	617	26	10	8	6
Rogaland	683	589	46	15	16	18
Hordaland	465	300	85	27	10	43
Sogn og Fjordane	1 868	540	1 251	20	32	25
Møre og Romsdal	1 072	996	47	:	:	13
Sør-Trøndelag	761	664	48	32	8	9
Nord-Trøndelag	1 326	1 231	58	26	-	11
Nordland	505	452	15	5	-	33
Troms	272	234	12	15	-	11
Finnmark	11	9	-	:	:	:
Agricultural area in use						
1 - 4 decares	62	44	11	4	2	1
5 - 49 "	3 877	2 350	966	422	45	96
50 - 99 "	4 130	3 127	536	375	40	54
100 - 199 "	5 106	4 051	608	269	124	55
200 - 299 "	3 546	2 994	135	345	14	58
300 - 499 "	3 154	2 500	77	532	10	36
500 - "	1 682	1 558	50	53	10	12
Share of income from the holding contributed by field-grown berries in 1998						
- 9.9 per cent	3 796	2 283	770	434	163	147
10.0 - 49.9 "	8 858	7 174	889	700	36	60
50.0 - 89.9 "	5 836	4 807	376	546	32	76
90.0 - "	3 067	2 358	348	320	13	29
Employment in production of field grown berries in 1998						
- 499 man-hours	4 814	2 370	1 134	979	166	165
500 - 999 "	2 752	1 860	445	375	33	40
1 000 - 1 999 "	3 819	2 913	379	428	23	77
2 000 - 2 999 "	1 896	1 611	159	87	10	29
3 000 - 4 999 "	3 144	2 864	188	82	10	1
5 000 - "	5 133	5 004	78	50	2	-

¹ Comprise holdings with at least 1.0 decares of field-grown berries (1979: at least 50 bacciferous shrubs, 1.0 decares of strawberry beds or 1.0 decares of raspberry plantations. 1989: at least 1.0 decares of black currant plantations, 1.0 decares of strawberry beds or 1.0 decares of raspberry plantations).

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.19. Berries, field grown. Holdings¹ with strawberries, by size of strawberry beds, use of covers, county and various structural classifications

	Holdings with strawberries, total	By size of strawberry beds in decares					With plastic on the ground under the plants	With plastic or other covers over the plants
		0.1-4.9	5.0-9.9	10.0-19.9	20.0-49.9	50.0-		
1979	2 564	1 712	450	270	105	27	1 378	..
1989	1 737	968	327	257	161	24	800	97
1999	1 281	596	227	218	169	71	698	232
1999								
County								
Østfold	59	17	13	13	10	6	13	10
Akershus and Oslo	49	15	6	14	11	3	21	13
Hedmark	89	18	19	15	18	19	39	20
Oppland	61	16	8	9	15	13	25	18
Buskerud	87	24	13	22	23	5	26	25
Vestfold	95	32	20	17	14	12	30	27
Telemark	54	21	12	13	8	-	14	10
Aust-Agder	37	18	4	4	8	3	21	7
Vest-Agder	59	20	13	19	5	2	23	11
Rogaland	59	25	17	8	8	1	39	16
Hordaland	91	76	12	2	-	1	72	7
Sogn og Fjordane	113	71	23	18	1	-	93	6
Møre og Romsdal	77	25	17	17	16	2	32	5
Sør-Trøndelag	64	29	13	11	10	1	34	7
Nord-Trøndelag	92	29	20	23	17	3	47	23
Nordland	106	85	9	7	5	-	96	8
Troms	84	70	8	6	-	-	72	15
Finnmark	5	5	-	-	-	-	1	4
Agricultural area in use								
1 - 4 decares	18	18	.	.	.	.	14	3
5 - 49 "	375	201	93	61	20	.	214	36
50 - 99 "	273	139	44	40	37	13	151	55
100 - 199 "	293	131	52	51	40	19	158	63
200 - 299 "	176	72	25	30	37	12	92	37
300 - 499 "	103	26	13	22	26	16	50	18
500 - "	43	9	-	14	9	11	19	20
Share of income from the holding contributed by field-grown berries in 1998								
- 9.9 per cent	547	410	78	39	18	2	318	71
10.0 - 49.9 "	444	127	85	116	91	25	225	86
50.0 - 89.9 "	171	32	34	34	39	32	96	53
90.0 - "	119	27	30	29	21	12	59	22
Employment in production of field-grown berries in 1998								
- 499 man-hours	664	508	99	47	10	-	387	72
500 - 999 "	199	55	72	52	20	-	99	29
1 000 - 1 999 "	191	25	42	77	44	3	104	40
2 000 - 2 999 "	74	6	9	26	29	4	36	25
3 000 - 4 999 "	85	1	3	14	54	13	41	32
5 000 - "	68	1	2	2	12	51	31	34

¹ Comprise holdings with at least 1.0 decares of field-grown berries (1979 and 1989: 1.0 decares of strawberry beds).

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.20. Berries, field grown. Area of strawberries¹, by size of strawberry beds per holding, use of covers, county and various structural classifications. Decares

	Area of strawberries, total	By size of strawberry beds in decares per holding					Average area of strawberry beds per holding	With plastic on the ground under the plants	With plastic or other covers over the plants
		0.1-4.9	5.0-9.9	10.0-19.9	20.0-49.9	50.0-			
1979.....	15 172	3 628	2 926	3 424	2 975	2 219	6	6 145	..
1989.....	13 774	1 984	2 162	3 371	4 580	1 676	8	4 122	301
1999.....	16 621	1 178	1 490	2 911	5 254	5 788	13	6 453	2 957
1999									
County									
Østfold.....	1 257	41	90	165	298	663	21	502	156
Akershus and Oslo.....	969	34	40	194	370	332	20	196	106
Hedmark.....	2 257	37	116	210	609	1 287	25	641	499
Oppland.....	1 832	37	59	114	478	1 144	30	868	780
Buskerud.....	1 650	53	82	307	730	479	19	297	322
Vestfold.....	1 897	73	134	228	439	1 023	20	557	488
Telemark.....	535	46	80	169	240	-	10	82	62
Aust-Agder.....	591	38	30	51	279	193	16	264	50
Vest-Agder.....	617	40	82	214	164	117	10	303	34
Rogaland.....	589	53	112	101	248	75	10	359	48
Hordaland.....	300	133	83	24	-	60	3	241	5
Sogn og Fjordane.....	540	130	158	230	22	-	5	456	22
Møre og Romsdal.....	996	49	108	255	445	140	13	231	20
Sør-Trøndelag.....	664	71	84	156	285	69	10	364	49
Nord-Trøndelag.....	1 231	72	129	330	495	206	13	471	278
Nordland.....	452	155	54	91	153	-	4	414	12
Troms.....	234	110	51	74	-	-	3	204	22
Finnmark.....	9	9	-	-	-	-	2	2	6
Agricultural area in use									
1 - 4 decares.....	44	44	.	.	.	.	2	31	4
5 - 49 ".....	2 350	405	602	812	530	.	6	1 163	136
50 - 99 ".....	3 127	267	295	516	1 216	833	11	1 209	513
100 - 199 ".....	4 051	256	347	706	1 212	1 529	14	1 370	902
200 - 299 ".....	2 994	136	162	401	1 252	1 042	17	1 070	621
300 - 499 ".....	2 500	51	83	287	785	1 294	24	875	143
500 - ".....	1 558	19	-	190	259	1 090	36	735	637
Share of income from the holding contributed by production of field-grown berries in 1998									
- 9.9 per cent.....	2 283	710	499	487	459	128	4	1 069	327
10.0 - 49.9 ".....	7 174	316	573	1 558	2 920	1 807	16	2 843	1 136
50.0 - 89.9 ".....	4 807	85	219	463	1 220	2 820	28	1 691	1 040
90.0 - ".....	2 358	67	199	404	655	1 033	20	849	453
Employment in production of field-grown berries in 1998									
- 499 man-hours.....	2 370	924	621	581	244	-	4	1 163	195
500 - 999 ".....	1 860	162	475	664	559	-	9	688	132
1 000 - 1 999 ".....	2 913	72	294	1 047	1 297	203	15	1 106	293
2 000 - 2 999 ".....	1 611	18	63	392	879	259	22	606	176
3 000 - 4 999 ".....	2 864	1	24	200	1 836	803	34	981	544
5 000 - ".....	5 004	1	12	28	440	4 523	74	1 909	1 616

¹ Comprise holdings with at least 1.0 decares of field-grown berries (1979 and 1989: 1.0 decares of strawberry beds).

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.21. Berries, field grown. Holdings¹ with strawberries in bearing by varieties and holdings with strawberries newly planted, by county and various structural classifications

	Holdings with strawberries, total ²	With strawberries in bearing						With strawberries newly planted (not bearing)
		Total	Korona	Senga Sengana	Zefyr	Bounty	Other varieties	
1989	1 737	1 643	..	1 325	436	154	185	854
1999	1 281	1 238	742	542	292	216	273	646
1999								
County								
Østfold	59	59	44	22	16	23	17	35
Akershus and Oslo	49	47	39	25	10	14	13	33
Hedmark	89	85	73	36	1	10	14	61
Oppland	61	60	50	22	1	15	14	45
Buskerud	87	86	75	17	12	9	15	53
Vestfold	95	95	72	41	37	14	21	52
Telemark	54	51	37	20	7	8	15	32
Aust-Agder	37	34	14	27	2	4	10	20
Vest-Agder	59	58	42	27	1	16	19	35
Rogaland	59	56	40	17	3	28	9	26
Hordaland	91	87	50	43	14	24	13	33
Sogn og Fjordane	113	104	17	82	-	5	37	46
Møre og Romsdal	77	75	34	57	5	20	12	44
Sør-Trøndelag	64	64	52	12	21	9	9	31
Nord-Trøndelag	92	89	57	60	5	12	8	58
Nordland	106	101	37	24	81	2	27	28
Troms	84	82	8	10	71	3	17	14
Finnmark	5	5	1	-	5	-	3	-
Agricultural area in use								
1 - 4 decares	18	18	9	5	8	3	2	1
5 - 49 "	375	359	184	155	90	50	78	153
50 - 99 "	273	265	149	116	63	46	57	129
100 - 199 "	293	283	161	134	69	46	71	158
200 - 299 "	176	173	123	68	36	37	36	94
300 - 499 "	103	101	83	45	18	25	23	74
500 - "	43	39	33	19	8	9	6	37
Area of strawberry beds								
0.1 - 4.9 decares	596	566	236	217	162	68	107	94
5.0 - 9.9 "	227	222	149	100	44	41	38	95
10.0 - 19.9 "	218	217	156	111	41	40	63	218
20.0 - 49.9 "	169	163	133	80	28	41	40	168
50.0 - "	71	70	68	34	17	26	25	71
Share of income from the holding contributed by field-grown berries in 1998								
- 9.9 per cent	547	517	244	194	139	53	96	154
10.0 - 49.9 "	444	438	301	213	87	106	103	289
50.0 - 89.9 "	171	166	121	80	39	41	49	124
90.0 - "	119	117	76	55	27	16	25	79
Employment in production of field-grown berries in 1998								
- 499 man-hours	664	631	292	241	176	73	120	170
500 - 999 "	199	197	133	89	44	36	42	115
1 000 - 1 999 "	191	190	142	85	32	49	42	147
2 000 - 2 999 "	74	72	52	50	12	19	23	65
3 000 - 4 999 "	85	81	58	44	10	14	23	84
5 000 - "	68	67	65	33	18	25	23	65

¹ Comprise holdings with at least 1.0 decares of field-grown berries (1989: 1.0 decares of strawberry beds). ² In 1999 included 10 holdings with solely young plant production.
Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

4.22. Berries, field grown. Area¹ of strawberries in bearing by varieties, area of strawberries newly planted and area of young plant production, by county and various structural classifications. Decares

	Area of strawberries, total	Area of strawberries in bearing						Area of strawberries newly planted (not bearing)	Area of young plant production
		Total	Korona	Senga Sengana	Zefyr	Bounty	Other varieties		
1989	13 774	10 687	..	7 762	1 650	636	639	3 087	..
1999	16 621	12 724	7 296	2 715	969	829	914	3 578	319
1999									
County									
Østfold	1 257	1 003	610	104	98	118	73	254	-
Akershus and Oslo	969	735	473	143	26	40	54	216	18
Hedmark	2 257	1 686	1 345	184	16	53	89	570	2
Oppland	1 832	1 385	972	217	4	149	43	374	74
Buskerud	1 650	1 249	991	95	41	76	46	402	-
Vestfold	1 897	1 453	830	176	283	37	127	433	11
Telemark	535	409	238	101	13	28	30	106	20
Aust-Agder	591	417	140	191	7	23	56	118	56
Vest-Agder	617	486	254	99	0	62	71	131	-
Rogaland	589	436	242	43	5	112	35	103	50
Hordaland	300	246	108	57	28	24	29	52	2
Sogn og Fjordane	540	410	29	302	-	5	74	129	1
Møre og Romsdal	996	753	231	438	12	34	39	210	33
Sør-Trøndelag	664	539	372	37	45	35	49	126	-
Nord-Trøndelag	1 231	950	371	495	20	32	33	247	34
Nordland	452	349	85	27	192	2	44	88	16
Troms	234	211	7	7	173	1	22	22	2
Finnmark	9	9	0	-	7	-	2	-	-
Agricultural area in use									
1 - 4 decares	44	42	12	15	12	2	2	2	-
5 - 49 "	2 350	1 903	802	531	285	94	191	415	31
50 - 99 "	3 127	2 369	1 313	510	183	191	172	677	80
100 - 199 "	4 051	3 106	1 612	846	225	140	282	900	45
200 - 299 "	2 994	2 287	1 469	390	108	204	116	649	57
300 - 499 "	2 500	1 977	1 310	340	70	156	101	508	15
500 - "	1 558	1 040	778	85	86	42	50	427	91
Area of strawberry beds									
0.1 - 4.9 decares	1 178	1 073	351	306	213	70	133	100	6
5.0 - 9.9 "	1 490	1 296	583	398	124	100	90	185	9
10.0 - 19.9 "	2 911	2 204	1 009	677	172	132	215	673	34
20.0 - 49.9 "	5 254	3 838	2 347	798	211	258	224	1 227	189
50.0 - "	5 788	4 314	3 006	537	249	270	252	1 394	81
Share of income from the holding contributed by field-grown berries in 1998									
- 9.9 per cent	2 283	1 874	888	451	226	126	182	402	7
10.0 - 49.9 "	7 174	5 402	3 080	1 215	302	437	368	1 562	210
50.0 - 89.9 "	4 807	3 571	2 232	563	309	197	270	1 154	82
90.0 - "	2 358	1 878	1 097	486	132	69	94	460	20
Employment in production of field-grown berries in 1998									
- 499 man-hours	2 370	1 977	791	515	326	123	223	378	15
500 - 999 "	1 860	1 457	678	405	135	100	139	371	32
1 000 - 1 999 "	2 913	2 284	1 287	519	142	183	153	606	23
2 000 - 2 999 "	1 611	1 199	622	352	66	65	94	358	55
3 000 - 4 999 "	2 864	2 053	1 295	480	70	106	102	699	112
5 000 - "	5 004	3 755	2 624	445	230	253	205	1 167	82

¹Comprise holdings with at least 1.0 decares of field-grown berries (1989: 1.0 decares of strawberry beds). Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.2.3. Greenhouses. Holdings with greenhouses, number of greenhouses and area of greenhouses¹, by county and various structural classifications

	Holdings with greenhouses, total	Number of greenhouses			Area of greenhouses		
		Total	With heating system	Without permanent heating system incl. plastic houses	Total	With heating system	Without permanent heating system incl. plastic houses
					1 000 m ²		
1979	1 549	5 623	..	..	2 064,5	1 819,3	² 245,1
1989	1 270	4 485	3 693	792	2 045,7	1 891,5	154,2
1999	957	3 458	2 701	757	2 002,5	1 832,1	170,4
1999							
County							
Østfold	62	238	199	39	114,7	104,9	9,7
Akershus and Oslo	58	279	241	38	174,1	165,9	8,2
Hedmark	42	132	103	29	64,3	57,4	6,9
Oppland	33	109	73	36	62,5	52,1	10,3
Buskerud	83	319	275	44	245,4	234,1	11,3
Vestfold	82	334	283	51	224,6	207,5	17,0
Telemark	24	80	48	32	56,5	50,2	6,4
Aust-Agder	25	98	81	17	55,3	51,6	3,7
Vest-Agder	34	130	89	41	46,1	37,8	8,3
Rogaland	228	688	582	106	550,9	517,8	33,2
Hordaland	72	295	250	45	141,7	133,4	8,3
Sogn og Fjordane	20	66	37	29	17,3	13,5	3,7
Møre og Romsdal	43	156	123	33	62,1	54,1	8,1
Sør-Trøndelag	20	67	50	17	23,9	21,0	2,9
Nord-Trøndelag	51	201	130	71	89,1	76,7	12,5
Nordland	47	158	84	74	46,1	33,6	12,5
Troms	24	84	41	43	21,9	17,0	4,9
Finnmark	9	24	12	12	6,0	3,6	2,4
Agricultural area in use							
1 - 4 decares	274	974	770	204	380,9	345,2	35,7
5 - 49 "	303	1 265	1 057	208	934,1	883,3	50,8
50 - 99 "	109	355	265	90	179,3	157,3	22,1
100 - 199 "	122	387	287	100	249,8	228,5	21,3
200 - 299 "	68	214	150	64	135,3	116,6	18,7
300 - 499 "	52	176	106	70	73,0	58,1	14,9
500 - "	29	87	66	21	49,9	43,1	6,8
Area of greenhouses							
300 - 999 m ²	370	901	556	345	221,0	164,0	57,1
1 000 - 1 999 "	281	904	695	209	377,8	327,5	50,3
2 000 - 4 999 "	227	1 029	869	160	662,3	608,6	53,7
5 000 - "	79	624	581	43	741,4	732,1	9,3
Employment in production in greenhouses in 1998							
- 499 man-hours.	106	206	97	109	72,5	39,1	33,4
500 - 999 "	75	192	114	78	53,9	38,8	15,1
1 000 - 1 999 "	172	456	325	131	169,5	141,6	27,9
2 000 - 2 999 "	139	425	307	118	190,5	167,0	23,5
3 000 - 4 999 "	185	637	501	136	314,8	285,6	29,2
5 000 - "	280	1 542	1 357	185	1 201,2	1 160,1	41,2

¹ Comprise holdings with at least 300 m² of greenhouse area (1979: included frames). ² Of which 119.1 decares of frames.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.24. Greenhouses. Holdings with greenhouses and area of greenhouses, by size of greenhouse area per holding¹, county and various structural classifications

	Holdings with greenhouses					Area of greenhouses				
	Total	By size of greenhouse area in m ²				Total	By size of greenhouse area in m ²			
		300-999	1 000-1 999	2 000-4 999	5 000-		300-999	1 000-1 999	2 000-4 999	5 000-
1979.....	1 549	889	414	197	49	2 064,5	501,1	542,3	560,0	461,1
1989.....	1 270	613	376	215	66	2 045,7	344,5	499,5	582,8	619,0
1999.....	957	370	281	227	79	2 002,5	221,0	377,8	662,3	741,4
1999										
County										
Østfold.....	62	26	19	11	6	114,7	15,4	24,6	35,0	39,6
Akershus and Oslo.....	58	16	17	17	8	174,1	9,3	25,5	56,5	82,8
Hedmark.....	42	22	10	7	3	64,3	11,5	13,6	17,3	22,0
Oppland.....	33	13	11	6	3	62,5	7,6	14,5	16,2	24,1
Buskerud.....	83	29	21	23	10	245,4	17,1	26,4	70,2	131,7
Vestfold.....	82	30	20	17	15	224,6	17,1	28,9	50,9	127,6
Telemark.....	24	10	9	3	2	56,5	6,4	10,8	7,8	31,5
Aust-Agder.....	25	7	7	9	2	55,3	3,8	9,2	25,8	16,5
Vest-Agder.....	34	11	17	6	-	46,1	6,4	23,5	16,2	-
Rogaland.....	228	63	71	72	22	550,9	41,1	96,4	207,8	205,6
Hordaland.....	72	26	19	24	3	141,7	16,6	28,2	69,6	27,4
Sogn og Fjordane.....	20	16	2	2	-	17,3	10,1	2,9	4,3	-
Møre og Romsdal.....	43	12	19	12	-	62,1	7,9	24,1	30,2	-
Sør-Trøndelag.....	20	11	5	4	-	23,9	6,6	6,2	11,1	-
Nord-Trøndelag.....	51	20	19	8	4	89,1	12,5	23,8	25,4	27,5
Nordland.....	47	32	11	3	1	46,1	17,5	14,1	9,5	5,0
Troms.....	24	18	3	3	-	21,9	9,8	3,6	8,5	-
Finmark.....	9	8	1	-	-	6,0	4,5	1,5	-	-
Agricultural area in use										
1 - 4 decares.....	274	118	90	66	.	380,9	71,8	124,4	184,7	.
5 - 49 ".....	303	80	87	77	59	934,1	48,0	119,2	238,4	528,5
50 - 99 ".....	109	43	30	33	3	179,3	26,2	37,1	100,8	15,2
100 - 199 ".....	122	55	31	28	8	249,8	33,3	39,3	72,9	104,4
200 - 299 ".....	68	32	19	13	4	135,3	18,2	25,6	36,9	54,6
300 - 499 ".....	52	29	14	7	2	73,0	15,7	19,5	19,7	18,2
500 - ".....	29	13	10	3	3	49,9	7,8	12,6	9,0	20,5
Type of production in 1998										
Only vegetables/berries.....	325	127	100	79	19	584,7	74,6	133,8	227,3	149,1
Only flowers.....	482	175	141	117	49	1 059,9	106,8	193,7	334,8	424,5
Both vegetables/berries and flowers.....	143	63	39	30	11	349,6	37,1	49,2	95,5	167,8
Not reported.....	7	5	1	1	-	8,3	2,6	1,0	4,7	-
Employment in production in greenhouses in 1998										
- 499 man-hours.....	106	90	13	3	-	72,5	44,8	16,2	11,6	-
500 - 999 ".....	75	64	9	2	-	53,9	36,9	12,0	5,0	-
1 000 - 1 999 ".....	172	96	61	15	-	169,5	58,6	76,1	34,8	-
2 000 - 2 999 ".....	139	53	62	21	3	190,5	33,0	83,8	51,8	22,0
3 000 - 4 999 ".....	185	46	75	61	3	314,8	33,0	100,5	165,2	16,1
5 000 - ".....	280	21	61	125	73	1 201,2	14,7	89,3	394,0	703,3

¹ Comprise holdings with at least 300 m² of greenhouse area (1979: included frames).

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.25. Greenhouses. Holdings¹ with sales of self-produced greenhouse products from own shop, by county and various structural classifications. 1999

	Holdings with greenhouses, total	Holdings without own shop	Holdings with own shop			
			Total	By type of shop		
				Shop at holding	Shop off holding	Sell out from own vehicle
Total	957	498	459	413	94	86
County						
Østfold	62	29	33	30	6	6
Akershus and Oslo	58	31	27	25	3	2
Hedmark	42	18	24	22	4	2
Oppland	33	14	19	18	5	5
Buskerud	83	63	20	16	4	2
Vestfold	82	51	31	27	5	5
Telemark	24	5	19	17	3	1
Aust-Agder	25	10	15	13	4	-
Vest-Agder	34	13	21	19	4	3
Rogaland	228	175	53	44	9	8
Hordaland	72	46	26	21	5	6
Sogn og Fjordane	20	1	19	17	2	4
Møre og Romsdal	43	7	36	34	9	11
Sør-Trøndelag	20	4	16	16	4	1
Nord-Trøndelag	51	20	31	30	6	4
Nordland	47	8	39	37	15	13
Troms	24	3	21	19	2	9
Finnmark	9	-	9	8	4	4
Agricultural area in use						
1 - 4 decares	274	96	178	158	46	26
5 - 49 "	303	159	144	130	24	30
50 - 99 "	109	63	46	44	6	16
100 - 199 "	122	82	40	33	11	12
200 - 299 "	68	46	22	21	3	1
300 - 499 "	52	34	18	16	3	1
500 - "	29	18	11	11	1	-
Greenhouse area						
300 - 999 m ²	370	151	219	197	48	52
1 000 - 1 999 "	281	145	136	124	28	22
2 000 - 4 999 "	227	139	88	79	16	11
5 000 - "	79	63	16	13	2	1
Type of production in 1998						
Only vegetables/berries	325	284	41	33	8	3
Only flowers	482	172	310	282	65	65
Both vegetables/berries and flowers	143	36	107	98	20	18
Not reported	7	6	1	-	1	-
Employment in production in greenhouses in 1998						
- 499 man-hours	106	77	29	22	6	7
500 - 999 "	75	41	34	33	6	5
1 000 - 1 999 "	172	81	91	85	15	17
2 000 - 2 999 "	139	58	81	70	19	16
3 000 - 4 999 "	185	86	99	90	17	20
5 000 - "	280	155	125	113	31	21

¹ Comprise holdings with at least 300 m² of greenhouse area.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.26. Greenhouses. Holdings¹ by type of energy used in greenhouses and holdings with electric boiler and heat pump, by various structural classifications

	Holdings with greenhouses, total	Of which with greenhouses with permanent heating system	With report of energy used					With electric boiler	With heat pump
			Total	Heating oil no. 1, FSD	Electricity for electric boiler etc.	Other electricity	Other energy sources ²		
1978.....	1 549	1 400	1 358	1 217	718	10	..	..
1988.....	1 270	1 163	1 123	943	777	87	..	..
1998.....	957	893	929	774	452	769	500	44	
1998									
Greenhouse area in 1999									
300 - 999 m ²	370	319	352	272	97	258	14	117	9
1 000 - 1 999 ".....	281	270	273	242	136	239	5	149	14
2 000 - 4 999 ".....	227	225	225	197	157	197	14	165	13
5 000 - ".....	79	79	79	63	62	75	17	69	8
Type of production									
Only vegetables/berries.....	325	279	302	272	103	187	20	117	23
Only flowers.....	482	469	478	392	277	449	18	305	15
Both vegetables/berries and flowers.....	143	140	143	104	71	130	12	77	6
Not reported.....	7	5	6	6	1	3	-	1	-
Employment in production in greenhouses									
- 499 man-hours.....	106	67	84	65	14	36	3	19	1
500 - 999 ".....	75	67	74	58	15	50	4	18	3
1 000 - 1 999 ".....	172	165	169	136	49	136	3	62	7
2 000 - 2 999 ".....	139	132	138	118	66	112	5	70	13
3 000 - 4 999 ".....	185	185	185	166	102	162	9	111	5
5 000 - ".....	280	277	279	231	206	273	26	220	15

¹ Comprise holdings with at least 300 m² of greenhouse area (1979: included frames). ² Comprise coal, coke, bio energy, heating oil no. 6 and gas. In 1998 no holdings used coal or coke.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.27. Greenhouses¹. Consumption of energy, by various structural classifications

	Coal, coke, bio energy etc. ²	Heating oil no. 6	Gas	Heating oil no. 1, FSD	Electricity			
					Total	Electricity for electric boiler etc.	Other	
	Metric tons			1 000 litres	1 000 kwh			
1978.....	663	37 396	..	76 725	72 186	..	..
1988.....	5 825	14 063	..	48 466	257 102	..	..
1998.....	3 462	4 129	2 323	39 488	499 284	276 349	222 935	
1998								
Greenhouse area in 1999								
300 - 999 m ²	33	102	-	4 399	23 651	12 188	11 463	
1 000 - 1 999 ".....	429	-	68	8 511	61 906	36 675	25 231	
2 000 - 4 999 ".....	300	525	107	14 410	174 047	107 832	66 215	
5 000 - ".....	2 700	3 502	2 148	12 168	239 680	119 654	120 026	
Type of production								
Only vegetables/berries.....	2 970	277	1 117	13 569	86 135	59 877	26 258	
Only flowers.....	478	1 227	211	21 016	318 011	168 058	149 953	
Both vegetables/berries and flowers.....	14	2 625	995	4 850	94 974	48 384	46 590	
Not reported.....	-	-	-	53	164	30	134	
Employment in production in greenhouses								
- 499 man-hours.....	-	19	-	634	4 680	1 953	2 727	
500 - 999 ".....	1	18	-	1 043	3 817	1 730	2 087	
1 000 - 1 999 ".....	14	36	-	4 091	15 983	8 679	7 304	
2 000 - 2 999 ".....	101	56	-	4 100	24 204	16 496	7 708	
3 000 - 4 999 ".....	278	38	46	7 710	58 885	39 913	18 972	
5 000 - ".....	3 068	3 962	2 277	21 910	391 715	207 578	184 137	

¹ Comprise holdings with at least 300 m² of greenhouse area (1979: included frames). ² In 1998 no consumption of coal or coke was reported.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: <http://www.ssb.no/jt1999/>.

4.28. Greenhouses¹. Growing lights, by various structural classifications. 1999

	Holdings with growing lights				Lighted area			
	Total	By type of fixtures			Total	By type of fixtures		
		High pressure mercury halogen	High pressure sodium steam	Other fixtures		High pressure mercury halogen	High pressure sodium steam	Other fixtures
	1 000 m ²							
Total	637	180	391	190	1 071,5	179,2	797,4	94,9
Greenhouse area								
300 - 999 m ²	190	60	92	79	69,8	17,8	32,4	19,6
1 000 - 1 999 "	196	68	113	63	153,6	38,8	91,9	22,8
2 000 - 4 999 "	179	42	129	36	357,1	60,9	269,5	26,7
5 000 - "	72	10	57	12	491,0	61,7	403,5	25,7
Type of production in 1998								
Only vegetables/berries	100	30	55	37	117,7	32,6	71,8	13,3
Only flowers	418	118	261	115	778,2	132,8	577,4	68,0
Both vegetables/berries and flowers	117	32	74	37	174,9	13,8	147,8	13,4
Not reported	2	-	1	1	0,5	-	0,4	0,1
Employment in production in greenhouses in 1998								
- 499 man-hours	17	5	9	9	8,0	1,1	5,7	1,3
500 - 999 "	31	10	14	14	10,5	2,5	3,7	4,3
1 000 - 1 999 "	89	30	44	32	40,1	9,5	23,0	7,6
2 000 - 2 999 "	90	32	46	31	59,1	12,2	28,7	18,3
3 000 - 4 999 "	143	45	82	38	122,8	32,2	77,8	12,9
5 000 - "	267	58	196	66	830,9	121,8	658,5	50,6

¹ Comprise holdings with at least 300 m² of greenhouse area.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.29. Greenhouses. CO₂-supply and internal transport¹, by various structural classifications. 1999

	Holdings with supply of CO ₂			Area with supply of CO ₂			Holdings with conveyor belt, overhead conveyor, train of rollers or travelling crane
	Total	To flowers	To vegetables	Total	Flowers	Vegetables	
Total	286	129	179	838,6	402,0	436,6	149
Greenhouse area							
300 - 999 m ²	27	9	18	16,2	4,8	11,4	17
1 000 - 1 999 "	85	28	63	96,0	25,8	70,3	43
2 000 - 4 999 "	119	55	74	284,2	109,6	174,6	60
5 000 - "	55	37	24	442,2	261,8	180,4	29
Type of production in 1998							
Only vegetables/berries	141	-	141	343,0	-	343,0	97
Only flowers	102	102	-	330,7	330,7	-	34
Both vegetables/berries and flowers	43	27	38	164,9	71,4	93,5	17
Not reported	-	-	-	-	-	-	1
Employment in production in greenhouses in 1998							
- 499 man-hours	4	1	3	6,2	3,0	3,2	3
500 - 999 "	11	1	10	7,4	0,9	6,5	6
1 000 - 1 999 "	38	7	32	43,2	4,4	38,9	33
2 000 - 2 999 "	35	6	32	59,0	4,7	54,3	22
3 000 - 4 999 "	62	17	49	105,4	16,1	89,3	30
5 000 - "	136	97	53	617,4	373,0	244,4	55

¹ Comprise holdings with at least 300 m² of greenhouse area.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.30. Greenhouses. Irrigation system, light intensity system and regulation of length of day¹, by various structural classifications. 1999

	Irrigation system				Light intensity system and regulation of length of day			
	Recirculation of water to flowers		Recirculation of water to vegetables		Light intensity system		Regulation of length of day	
	Holdings	Area	Holdings	Area	Holdings	Area	Holdings	Area
		1 000 m ²		1 000 m ²		1 000 m ²		1 000 m ²
Total	209	502,8	41	103,9	389	738,5	110	149,3
Greenhouse area								
300 - 999 m ²	36	17,4	6	3,5	83	38,4	18	4,1
1 000 - 1 999 "	61	54,6	11	9,5	122	112,2	18	10,1
2 000 - 4 999 "	73	148,7	13	27,5	124	235,3	42	44,8
5 000 - "	39	282,2	11	63,4	60	352,6	32	90,2
Type of production in 1998								
Only vegetables/berries	-	-	29	65,5	46	92,3	1	2,5
Only flowers	167	423,4	-	-	287	580,8	96	138,2
Both vegetables/berries and flowers	42	79,4	12	38,4	54	64,5	13	8,6
Not reported	-	-	-	-	2	0,9	-	-
Employment in production in greenhouses in 1998								
- 499 man-hours	1	0,4	1	1,0	10	7,2	2	1,0
500 - 999 "	4	1,7	3	1,8	8	3,9	2	0,9
1 000 - 1 999 "	20	13,7	4	4,2	46	32,7	9	3,8
2 000 - 2 999 "	22	16,5	5	7,5	50	44,2	8	1,9
3 000 - 4 999 "	43	48,1	7	8,9	80	85,5	17	13,1
5 000 - "	119	422,5	21	80,5	195	565,0	72	128,6

¹ Comprise holdings with at least 300 m² of greenhouse area.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

4.31. Greenhouses. Area of growing media used in various productions in greenhouses¹, by various structural classifications. 1999. 1 000 m²

	Tomatoes			Cucumbers			Cut flowers		
	Peat	Rock wool	Other	Peat	Rock wool	Other	Peat	Rock wool	Other
Total	50,1	259,4	10,1	67,5	123,3	40,3	119,9	128,4	48,9
Greenhouse area									
300 - 999 m ²	8,7	17,5	3,7	3,5	5,4	1,6	6,5	1,1	4,4
1 000 - 1 999 "	13,7	56,8	4,7	13,6	14,7	5,0	16,3	9,7	6,9
2 000 - 4 999 "	25,7	109,2	1,6	32,8	35,3	9,4	16,3	37,5	20,9
5 000 - "	2,0	75,9	-	17,6	67,8	24,4	80,9	80,2	16,6
Type of production in 1998									
Only vegetables/berries	40,8	231,8	7,1	39,9	93,4	19,5	-	-	-
Only flowers	-	-	-	-	-	-	114,5	90,5	45,5
Both vegetables/berries and flowers	9,3	27,6	2,9	27,6	29,9	20,8	5,4	38,0	3,5
Employment in production in greenhouses in 1998									
- 499 man-hours	1,7	1,7	0,3	2,5	2,1	0,5	0,9	2,6	0,6
500 - 999 "	2,6	9,7	3,0	0,1	3,5	1,0	1,5	-	-
1 000 - 1 999 "	10,8	44,6	4,0	3,0	6,5	2,6	2,7	1,3	1,9
2 000 - 2 999 "	5,3	44,1	0,3	12,6	12,5	9,7	3,1	1,8	2,0
3 000 - 4 999 "	22,2	56,1	1,9	20,9	21,7	3,5	12,7	3,7	8,5
5 000 - "	7,5	103,2	0,6	28,3	77,1	23,0	99,0	119,1	35,9

¹ Comprise holdings with at least 300 m² of greenhouse area.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

4.32. Greenhouses. Biological/integrated plant protection in production of vegetables and flowers¹, by county and various structural classifications. 1999

	Production of vegetables				Production of flowers			
	Holdings		Area (annual square metres) ² i 1998		Holdings		Area in 1998	
	With produc- tion in 1998	Of which with biological/inte- grated plant protection ³	Total	Of which with biological/inte- grated plant protection ³	With produc- tion in 1998	Of which with biological/inte- grated plant protection ³	Total	Of which with biological/inte- grated plant protection ³
		1 000 m ²				1 000 m ²		
Total	358	210	645,5	459,4	625	230	1 175,8	502,7
County								
Østfold	23	9	21,9	12,3	42	13	81,2	34,9
Akershus and Oslo	11	8	13,3	12,3	53	17	151,7	69,8
Hedmark	11	8	8,1	7,4	33	10	50,2	20,9
Oppland	9	5	8,6	5,9	25	12	46,2	14,9
Buskerud	35	26	120,4	97,0	34	12	94,4	37,9
Vestfold	13	7	28,5	16,4	60	19	180,8	61,0
Telemark	7	4	22,3	21,1	20	4	29,3	2,5
Aust-Agder	7	6	9,7	8,7	17	8	36,7	23,4
Vest-Agder	8	3	5,3	4,1	25	6	34,0	8,0
Rogaland	177	97	358,9	235,0	64	21	146,0	56,5
Hordaland	16	10	14,8	12,2	60	22	125,3	67,3
Sogn og Fjordane	4	4	1,4	1,4	17	5	13,5	5,0
Møre og Romsdal	10	9	12,5	11,1	40	15	45,0	15,0
Sør-Trøndelag	1	:	:	:	20	12	20,9	14,2
Nord-Trøndelag	16	11	18,2	14,1	39	20	59,0	40,6
Nordland	5	:	1,1	0,4	44	20	39,1	19,0
Troms	4	-	-	-	23	11	17,4	10,1
Finnmark	1	:	:	:	9	3	5,0	1,7
Greenhouse area								
300 - 999 m ²	118	43	55,9	19,8	238	70	127,5	38,6
1 000 - 1 999 "	113	66	122,8	73,7	180	54	207,4	60,6
2 000 - 4 999 "	98	80	245,6	198,7	147	79	360,4	190,5
5 000 - "	29	21	221,2	167,2	60	27	480,3	213,0
Employment in production in greenhouses in 1998								
- 499 man-hours	42	8	22,9	4,5	22	6	10,8	1,5
500 - 999 "	39	14	21,7	7,7	36	6	16,3	2,9
1 000 - 1 999 "	77	38	78,2	40,0	103	25	71,2	18,2
2 000 - 2 999 "	59	41	90,0	55,7	92	31	77,5	31,4
3 000 - 4 999 "	70	52	131,6	103,0	130	45	163,7	50,9
5 000 - "	71	57	301,1	248,5	242	117	836,4	397,8

¹ Comprise holdings with at least 300 m² of greenhouse area. ² The greenhouse area was to be counted only once. If more than one crop was harvested on the same area, the total area was to be distributed among the crops according to how long time (days or months) the various crops were cultivated. ³ In all or part of the production.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.33. Greenhouses. Holdings¹ with various kinds of production, by county and various structural classifications

	Holdings with production in greenhouses, total	Vegetables, finished products	Vegetables, young plant production	Berries	Cut flowers	Flowering potted plants, bulb flowers in pots or mini-potted plants	Decorative plants	Bedding plants
1978	1 489	942	415	13		465	207	608
1988	1 127	577	..	..	367	648	339	..
1998	950	358	157	32	197	457	119	517
1998								
County								
Østfold	61	23	14	2	8	31	9	36
Akershus and Oslo	58	11	3	1	16	38	7	37
Hedmark	42	11	9	-	7	24	2	32
Oppland	32	9	7	-	8	22	1	21
Buskerud	83	35	28	2	8	24	7	26
Vestfold	80	13	21	3	16	49	20	44
Telemark	24	7	4	1	3	15	3	17
Aust-Agder	24	7	5	1	6	13	2	16
Vest-Agder	34	8	3	4	9	20	9	20
Rogaland	228	177	33	9	26	39	12	46
Hordaland	72	16	10	1	28	36	12	44
Sogn og Fjordane	20	4	4	3	7	11	1	16
Møre og Romsdal	43	10	2	1	16	33	10	37
Sør-Trøndelag	20	1	3	-	7	16	6	18
Nord-Trøndelag	50	16	5	1	14	30	6	35
Nordland	46	5	2	3	11	33	7	42
Troms	24	4	2	-	6	19	5	21
Finnmark	9	1	2	-	1	4	-	9
Greenhouse area in 1999								
300 - 999 m ²	365	118	75	15	55	152	32	220
1 000 - 1 999 "	280	113	40	9	61	143	46	154
2 000 - 4 999 "	226	98	32	7	52	117	26	109
5 000 - "	79	29	10	1	29	45	15	34
Type of production								
Only vegetables/berries	325	262	82	26	-	-	-	-
Only flowers	482	-	-	-	159	360	102	395
Both vegetables/berries and flowers	143	96	75	6	38	97	17	122
Employment in production in greenhouses								
- 499 man-hours	99	42	41	14	5	7	1	17
500 - 999 "	75	39	14	2	4	15	1	33
1 000 - 1 999 "	172	77	29	4	16	61	15	97
2 000 - 2 999 "	139	59	20	6	24	71	12	84
3 000 - 4 999 "	185	70	23	2	43	111	33	113
5 000 - "	280	71	30	4	105	192	57	173

¹ Comprise holdings with at least 300 m² of greenhouse area.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

4.34. Greenhouses. Production of various kinds of vegetables and berries in greenhouses¹. 1998

	Holdings with production of vegetables /berries	Produced quantity		Annual square metres ²
		1 000 pieces		1 000 m ²
Vegetables, total	358	..		645,5
Rapid lettuce	20	10 586		31,9
Head lettuce	13	3 274		14,5
Other lettuce	10	1 312		8,4
Herbs	17	1 967		10,0
Tomatoes, only culture	196	..		274,3
Tomatoes, in combination with other cultures. . .	30	..		45,2
Cucumbers, only culture	108	..		206,6
Cucumbers, in combination with other cultures .	30	..		26,9
Other vegetables	40	..		27,6
Berries, total	32	..		27,0
Strawberries	26	..		23,8
Other berries	8	..		3,3

¹ Comprise holdings with at least 300 m² of greenhouse area. ² The greenhouse area was to be counted only once. If more than one crop was harvested on the same area, the total area was to be distributed among the crops according to how long time (days or months) the various crops were cultivated.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.35. Greenhouses. Production of cut flowers¹. 1998

	Holdings with cut flower production	Produced quantity		Annual square metres ²
		1 000 pieces		1 000 m ²
Total	197	112 122		296,8
Kind of cut flowers				
Tulips (<i>Tulipa</i> spp.)	99	51 741		43,8
Roses (<i>Rosa</i> spp.)	71	38 312		163,4
Chrysanthemums (<i>Dendranthema x grandiflorum</i>)	50	5 730		32,2
Lilies (<i>Lilium</i> spp.)	29	3 156		13,6
Inca Lilies (<i>Alstroemeria aurantiaca</i>)	9	2 915		12,4
Gerberas (<i>Gerbera jamesonii</i>)	3	1 669		4,9
Other cut flowers	43	8 599		26,3

¹ Comprise holdings with at least 300 m² of greenhouse area. ² The greenhouse area was to be counted only once. If more than one crop was harvested on the same area the total area was to be distributed among the crops according to how long time (days or months) the various crops were cultivated.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.36. Greenhouses. Production of flowering potted plants, decorative plants and bedding plants¹. 1998

	Holdings with production	Produced quantity	
		For further cultivation	Finished products
1 000 pieces			
Flowering potted plants, total	445	18 571	34 738
Poinsettias (<i>Euphorbia pulcherrima</i>)	322	4 843	5 774
Potted chrysanthemums (<i>Dendranthema x grandiflorum</i>)	67	8	3 528
Begonia hiemalis (<i>Begonia x hiemalis</i>)	153	2 755	3 147
Kalanchoes (<i>Kalanchoe blossfeldiana</i>)	47	705	2 649
Geraniums (<i>Pelargonium x hortorum</i>)	250	3 340	3 507
African violets (<i>Saintpaulia ionantha</i>)	57	808	2 367
Potted roses (<i>Rosa</i> spp.)	26	2	2 353
Primulas (<i>Primula</i> spp.)	80	350	1 399
Ivy geraniums (<i>Pelargonium x peltatum</i>)	176	714	1 067
Gerberas (<i>Gerbera jamesonii</i>)	20	165	862
Azaleas (<i>Rhododendron simsii</i>)	125	51	1 000
Impatiens (<i>Impatiens wallerana</i>)	99	246	706
Begonia cheimanthas (<i>Begonia x cheimantha</i>)	125	686	945
Cyclamens (<i>Cyclamen persicum</i>)	86	585	684
Hydrangeas (<i>Hydrangea macrophylla</i>)	49	228	792
Other flowering potted plants	200	3 085	3 958
Decorative plants, total	119	318	4 367
Ivy foliage plants (<i>Hedera</i> spp.)	44	66	1 475
Ferns (<i>Nephrolepis</i> spp.)	18	150	135
Baby's tears (<i>Soleirolia soleirolii</i>)	25	-	316
Golden pathos (<i>Epipremnum aureum</i>)	23	10	243
Peperomias (<i>Peperomia</i> spp.)	27	25	150
Dieffenbachias (<i>Dieffenbachia</i> spp.)	19	10	106
Krotons (<i>Codiaeum variegatum</i>)	20	-	128
Syngoniums (<i>Syngonium</i> spp.)	17	5	89
Umbrella trees (<i>Schefflera</i> spp.)	19	25	103
Begonias (<i>Begonia</i> spp.)	24	1	409
Ficus (<i>Ficus benjamina</i>)	16	11	42
Other decorative plants	84	15	1 171
Bedding plants, total	517	5 352	31 615
Pansies (<i>Viola</i> spp.)	424	1 196	8 244
Lobelias; edging and trailing (<i>Lobelia</i> spp.)	400	657	5 661
Petunias; ordinary (<i>Petunia x hybrida</i>)	383	516	2 788
Marguerites (<i>Argyranthemum frutescens</i>)	307	856	2 939
Marigolds (<i>Tagetes</i> spp.)	361	83	2 690
Dianthus (<i>Dianthus chinensis</i>)	311	225	1 364
Wax begonias (<i>Begonia x semperflorens-cultorum</i>)	105	108	734
Dahlias (<i>Dahlia</i> spp.)	255	151	741
Sweet alyssums (<i>Lobularia maritima</i>)	102	39	284
Hanging petunias (<i>Petunia x hybrida</i>)	289	673	912
African daisies (<i>Osteospermum</i> spp.)	75	252	327
Bedding impatiens (<i>Impatiens wallerana</i>)	110	43	373
Other bedding plants	394	553	4 558

¹ Comprise holdings with at least 300 m² of greenhouse area.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.37. Greenhouses. Production of bulb flowers in pots and mini-potted plants¹. 1998

	Holdings with production	Produced quantity	
		1 000 pieces	
Bulb flowers, total	102	867	
Amaryllises (<i>Hippeastrum</i> spp.)	16	89	
Daffodils (<i>Narcissus</i> spp.)	41	269	
Hyacinths (<i>Hyacinthus orientalis</i>)	79	350	
Other bulb flowers in pots	17	159	
Mini-potted plants, total	51	1 664	
Poinsettias (<i>Euphorbia pulcherrima</i>)	38	845	
Kalanchoes (<i>Kalanchoe blossfeldiana</i>)	7	373	
African violets (<i>Saintpaulia ionantha</i>)	5	102	
Other mini-potted plants incl. potted roses (<i>Roses</i> spp.)	13	344	

¹ Comprise holdings with at least 300 m² of greenhouse area.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.38. Greenhouses. Production of young vegetable plants¹. 1998

	Holdings with young vegetable plant production	Produced quantity			
		Total	Tomatoes	Cucumbers	Other vegetables
		1 000 pieces			
Total	157	61 875	947	692	60 236

¹ Comprise holdings with at least 300 m² of greenhouse area.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.39. Nurseries¹. County and various structural classifications. 1999

	Holdings		Outdoor area					Green-house area	
	Total	Of which with green-house area	Total	Finished products	Young plants	Area temporarily out of production	Other area		Container-grown plants
Total	223	77	2 869,3	913,8	686,4	312,6	393,9	562,6	59,0
County									
Østfold	6	4	78,5	15,0	2,0	10,0	33,0	18,5	2,4
Akershus and Oslo	14	5	458,3	124,5	75,5	172,0	39,0	47,3	6,8
Hedmark	13	4	250,3	107,5	73,7	10,5	-	58,6	4,1
Oppland	10	3	111,7	30,7	58,1	3,1	-	19,8	1,3
Buskerud	14	6	319,4	41,3	99,0	9,0	114,2	55,9	4,4
Vestfold	21	10	352,9	87,5	105,6	8,0	12,7	139,1	7,4
Telemark	9	1	95,0	14,5	26,5	1,0	43,0	10,0	0,5
Aust-Agder	8	3	192,7	67,7	37,2	23,0	10,0	54,8	3,5
Vest-Agder	10	4	37,6	9,5	6,4	2,5	15,0	4,2	0,8
Rogaland	27	9	422,9	159,1	100,2	40,5	81,7	41,4	10,7
Hordaland	29	8	157,8	64,5	33,3	1,2	8,7	50,1	7,1
Sogn og Fjordane	9	3	96,0	31,0	30,0	13,0	2,5	19,5	2,2
Møre og Romsdal	12	4	31,1	13,4	7,2	-	1,7	8,8	0,7
Sør-Trøndelag	6	2	127,7	89,0	9,5	8,0	5,0	16,2	1,7
Nord-Trøndelag	16	2	72,6	39,0	9,5	6,0	9,0	9,1	1,3
Nordland	10	5	33,9	9,0	4,0	1,0	15,2	4,7	3,3
Troms	8	4	30,0	10,6	8,7	2,8	3,2	4,7	1,0
Finnmark	1	-	1,0	-	-	1,0	-	-	-
Nursery area									
1.0 - 4.9 decares	137	33	274,4	88,5	74,1	22,6	29,8	59,3	13,5
5.0 - 9.9 "	25	8	156,9	61,5	46,6	7,0	22,5	19,3	6,6
10.0 - 19.9 "	19	10	247,4	104,3	46,7	3,0	40,6	52,8	4,3
20.0 - 49.9 "	24	14	759,7	281,5	187,0	47,0	73,0	171,2	18,1
50.0 - "	18	12	1 431,0	378,0	332,0	233,0	228,0	260,0	16,4
Share of income from the holding contributed by nursery production in 1998									
- 9.9 per cent	96	12	310,9	98,1	76,8	50,6	51,9	33,5	7,5
10.0 - 49.9 "	47	15	350,6	104,7	126,4	1,0	77,0	41,5	7,7
50.0 - 89.9 "	23	11	321,1	156,3	61,6	7,0	29,1	67,1	9,4
90.0 - "	57	39	1 886,7	554,7	421,6	254,0	235,9	420,5	34,4
Total employment in nursery on the holding in 1998									
- 499 man-hours	98	8	482,2	118,3	94,4	210,1	51,2	8,2	3,0
500 - 999 "	26	10	84,4	32,1	16,5	3,0	20,2	12,6	4,3
1 000 - 1 999 "	28	9	209,5	81,4	64,7	11,5	2,0	49,9	4,4
2 000 - 2 999 "	18	13	181,1	41,3	57,7	-	49,9	32,2	7,2
3 000 - 4 999 "	18	12	381,7	146,2	120,4	3,0	38,4	73,7	4,8
5 000 - "	35	25	1 530,4	494,5	332,7	85,0	232,2	386,0	35,2

¹ Comprise holdings with at least 1.0 decares of nursery area.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

4.40. Nurseries¹. Sold production in 1998. Number of plants

	Deciduous trees	Berry shrubs	Fruit trees	Coniferous plants (not forest plants)	Ornamental plants	Hedge and mass plants	Roses	Climbing and twinning plants	Perennials plants
	100 pieces			1 000 pieces					
Total	1 339	794	1 992	1 644	2 011	1 788	748	123	713
Bare root	561	15	215	57	96	447	6	3	76
Finished balled plants	253	.	491	279	92	.	.	2	.
Container-grown plants	297	468	910	751	1 362	863	662	116	576
Young plants	228	311	376	557	461	478	80	2	61

¹ Comprise holdings with at least 1.0 decares of nursery area.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

5. Livestock

For holdings obliged to respond to the 1999 census, all categories of livestock specified in the census questionnaire (application form for production subsidy) were to be included. The response duty connected to livestock farming was mainly the same as in previous censuses, with the exception of fur-bearing animal farms not obliged to respond. It should also be noted that horse farms were neither obliged to respond in 1989 nor in 1999. Horses and fur-bearing animals were therefore only counted at holdings with other production which obliged them to respond.

The census date in the 1999 Agricultural Census was 31 July. The census date in 1989 was 1 June while that of censuses before 1989 was 20 June. It is not expected that a different census date is significant when comparing livestock figures from the various censuses.

When comparing results from 1999 with previous censuses, one should be aware of the changes in the basis of data. In 1999, information about livestock is mostly retrieved from applications for production subsidies. The regulations for subsidies will to a certain extent influence how the applicants adapt production. In most cases, it would be profitable to have much livestock at the time of registration.

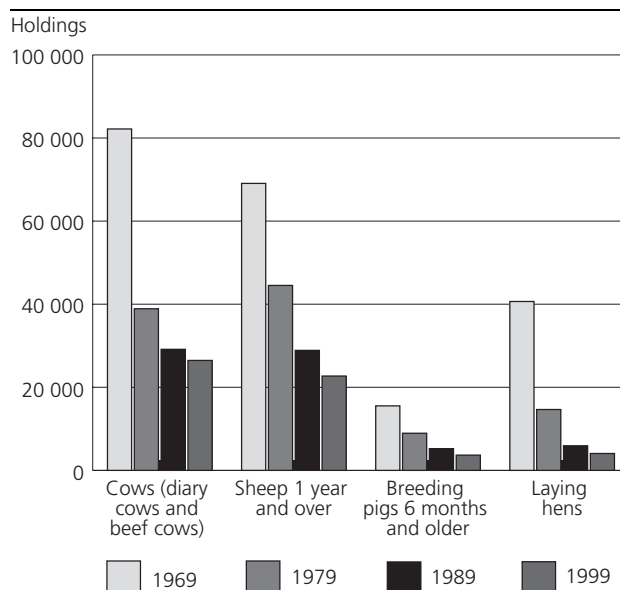
For some domestic animals, the number of heads may experience much variation during one year. For example in rearing of laying hens, chickens and pigs for slaughter, the whole batch is often renewed at one time. In some cases the census date might be between two batches and production might thus be underreported. The effect of this in the statistics is considered insignificant.

As at 31 July 1999, there were 51 000 holdings with one or more types of livestock. The scope varies from hobby-type livestock, for e.g. one horse, to great numbers of livestock. 72 per cent of all holdings had livestock in 1999 while the corresponding percentage was 65 in 1989.

5.1. Cattle

From 1969 until 1999 the number of holdings with cows, including beef cows, declined by 68 per cent. From 1989 to 1999 the decline has only been 9 per cent. However it is important to consider here that in the last ten-year period there has been an increase in the number of holdings with beef cows. 3 800 of altogether 26 500 holdings with cows had only beef cows in 1999. Separate information was not gathered on beef cows and dairy cows in the 1989 census. However in the applications for production subsidies about 1 000 holdings had beef cows and not

Figure 5.1. Holdings with various types of livestock. The whole country. 1969, 1979, 1989 and 1999



dairy cows. Prior to 1989, beef cows were even more seldom. The number of cows declined from the 1969 census up to 1989, but increased up to 1999. The increase in the last decade is due to the increase in the number of beef cows. The number of beef cows has increased from between 6 000 and 7 000 animals in 1989 to barely 37 000 animals in 1999. The number of dairy cows decreased by about 21 000 in the ten-year period.

In 1999 there was an average of 13.8 dairy cows per holding with dairy cows. Of all counties, Vestfold had the highest average of 19.2 dairy cows per holding, while the lowest figure was registered in Telemark with 10.2. In Vestfold there were only 185 holdings left with dairy cows in 1999. Rogaland had most dairy cow holdings with 3 100, with an average of 16.9 dairy cows. Average size of herd has shown relatively little change since the early 1980's. This must be seen in light of the fact that dairy production in this period has been regulated by quota.

In recent years, the number of joint operations with dairy production has increased strongly. Joint operation is co-operation whereby several farmers pool their dairy production. In 1999, the main rule was for each member of the joint operation to apply individually for production subsidies for the agricultural area that was involved in the joint operation and for any other livestock they had outside of the joint operation. The joint operation itself applied for subsidies for the dairy cows, other cattle and livestock included in the joint operation. In the tables, holdings with dairy cows or dairy goats operating less than 5 decares of agricultural area are mainly joint operations. In 1999 there were 375 joint operations with dairy cows, with an average of 26.5 dairy cows.

Figure 5.2. Number of dairy cows, by county. 1999

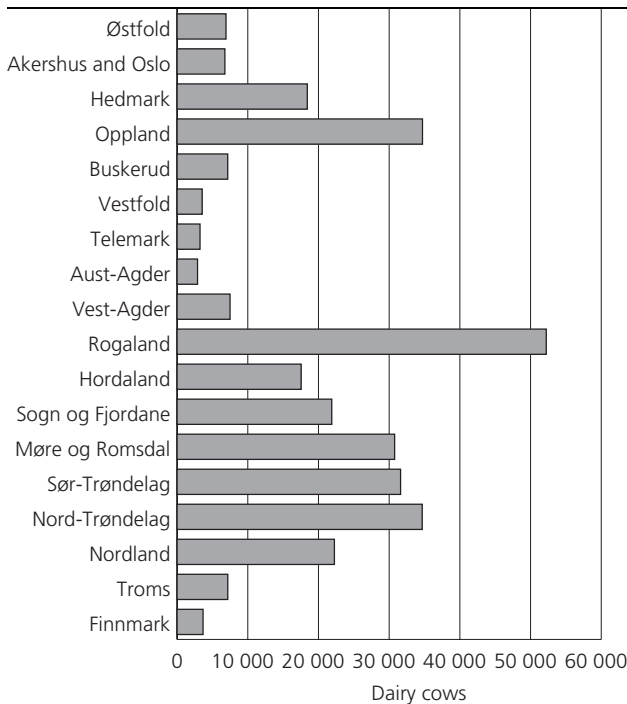
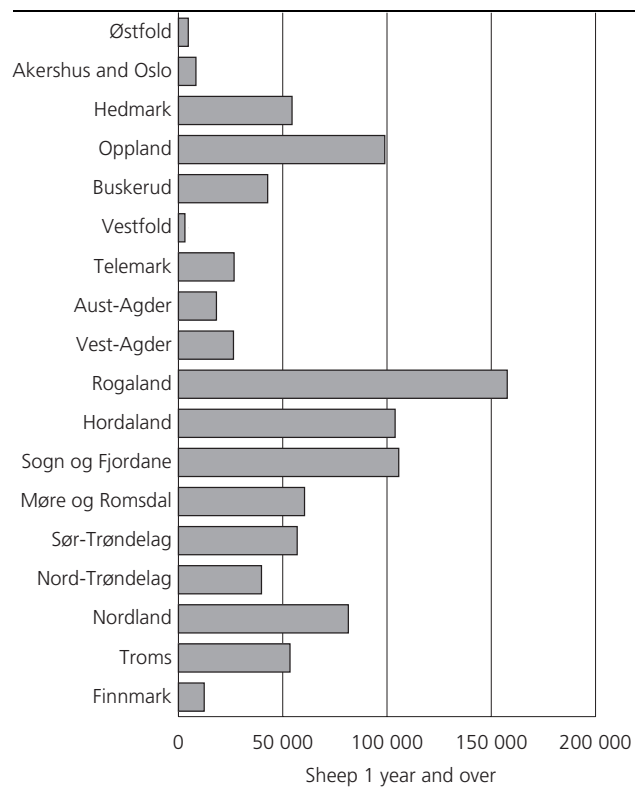


Figure 5.3. Number of sheep aged 1 year and over, by county. 1999



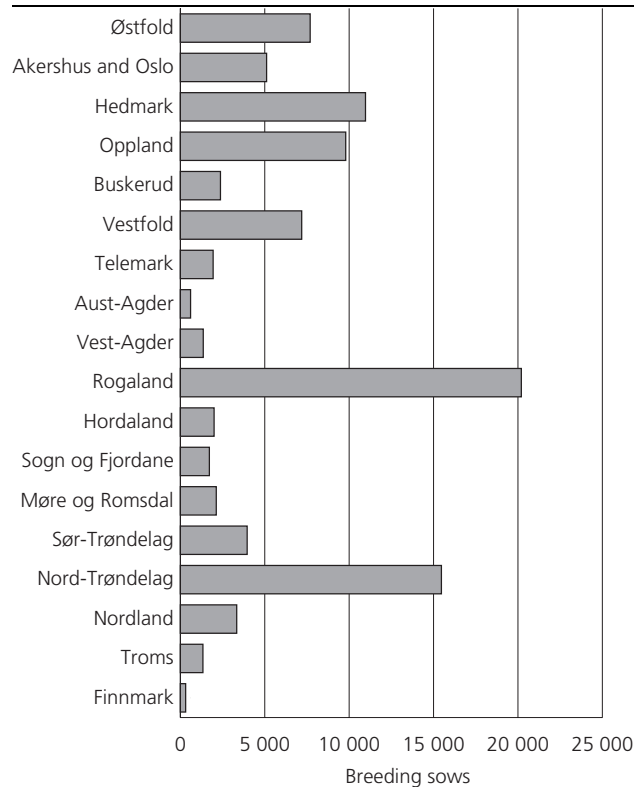
5.2. Sheep

The number of holdings with sheep fell 15 per cent from 1989 till 1999, from 29 100 holdings to 24 750. The number of sheep (including lambs) on the contrary, increased by 6.5 per cent and in 1999 there were 2.32 million sheep in Norway versus 2.18 million in 1989. Average full-grown sheep per holding increased from 31 animals in 1989 to 42 in 1999. Sheep are most widespread in the three Western Norway counties, Rogaland, Hordaland and Sogn og Fjordane. In 1999, 40 per cent of the flocks and 37.5 per cent of the animals were in these three counties.

5.3. Pigs

Both the number of breeding pigs and the number of other pigs increased from 1969 to 1999, while the number of holdings with pigs decreased strongly. From 1989 to 1999 the number of holdings with pigs declined 29 per cent to 5 900. At the same time, the number of breeding pigs increased by 19 per cent and the number of other pigs increased by 11 per cent. Since 1975, pork and poultry production has been subject to a law on the regulation of commercial livestock, i.e. the rearing of pigs beyond a certain extent requires a licence. In 1999 the limit for license-free operation was 70 breeding sows or maximum space for 450 pigs for slaughter, equivalent to 1 400 pigs for slaughter annually.

Figure 5.4. Number of breeding sows, by county. 1999



5.4. Laying hens

As at 31 July 1999, there were 3.2 million laying hens at about 4 100 holdings. Compared to 1989 this represented a decline of barely 8 per cent in the number of laying hens. Since 1989 there have been fewer holdings with up to 3 000 laying hens. At the same time, the number of holdings with more than 3 000 laying hens has increased about 70 per cent. About 50 per cent of laying hens in 1999 were reared at holdings with at least 3 000 laying hens, versus 27 per cent in 1989.

The 1999 census also included some types of live-stock, not presented in separate tables. This is partly due to small-scale operation (deers, ostriches, llamas, alpacas and donkeys) and partly because a substantial part of the total production is not included in the census (rabbits and fur animals). The scope of what is included in the census is illustrated in the table below.

Holdings obliged to respond to the 1999 Agricultural Census with various types and number of livestock

	Number of holdings	Number of animals
Female rabbits which have littered	839	3 328
Female minks, polecats or foxes	684	91 955
Deers	28	1 791
Ostriches	125	2 287
Llamas, alpacas and donkeys. Horses in agistment in the grazing season	423	1 790

5.1. Holdings with various kinds of livestock, by county and various structural classifications

	Holdings, total	Horses	Cattle		Sheep 1 year and over	Goats which have kidded ²	Pigs		Laying hens
			Total	Cows ¹			Total	Breeding sows ³	
1949	213 441	130 513	..	192 492	..	..	119 063	..	138 648
1959	198 315	95 623	152 283	148 167	..	..	84 999	..	85 588
1969	154 977	34 090	92 116	82 177	69 075	3 488	49 970	15 444	40 653
1979	125 302	12 328	53 793	38 906	44 514	1 713	17 667	8 914	14 655
1989	99 382	7 560	37 584	29 143	28 887	1 474	8 272	5 229	5 930
1999	70 740	7 310	30 130	26 468	22 709	1 235	5 876	3 676	4 064
1999									
County									
Østfold	3 604	373	601	553	237	15	399	273	235
Akershus and Oslo	3 484	410	614	555	294	13	332	205	205
Hedmark	5 974	588	1 688	1 562	1 111	66	559	334	278
Oppland	7 054	760	3 227	2 938	1 997	105	651	408	289
Buskerud	3 820	434	887	789	888	38	154	73	177
Vestfold	2 463	225	369	332	152	9	281	196	109
Telemark	2 616	340	594	475	656	43	150	82	172
Aust-Agder	1 258	180	435	335	446	13	80	35	99
Vest-Agder	1 994	290	959	797	851	13	97	46	159
Rogaland	6 189	691	3 983	3 543	3 194	66	1 195	705	645
Hordaland	5 595	647	2 527	2 038	3 220	129	282	158	341
Sogn og Fjordane	5 295	474	2 722	2 321	2 938	183	179	115	236
Møre og Romsdal	5 018	474	3 145	2 541	1 866	114	191	117	251
Sør-Trøndelag	4 805	478	2 692	2 458	1 030	23	278	171	226
Nord-Trøndelag	5 026	301	2 677	2 496	806	47	743	521	216
Nordland	3 833	351	2 016	1 892	1 647	104	194	157	257
Troms	2 054	214	725	599	1 114	247	85	59	124
Finmark	658	80	269	244	262	7	26	21	45
Agricultural area in use									
- 4 decares ⁴	729	16	380	378	22	4	22	13	13
5 - 49 "	13 788	1341	1 204	504	5 779	172	499	256	982
50 - 99 "	16 720	1713	4 791	3 400	7 149	467	796	487	882
100 - 199 "	22 286	2316	12 815	11 689	6 432	459	2 142	1 421	1 260
200 - 299 "	10 367	1130	7 170	6 871	2 204	85	1 270	807	546
300 - 499 "	5 273	605	3 093	2 972	950	41	864	514	290
500 - "	1 577	189	677	654	173	7	283	178	91
Holders⁵ by gender									
Legal persons	781	110	499	484	117	31	100	66	73
Males	60 914	5985	26 435	23 306	19 005	967	5 170	3 252	3 228
Females	9 045	1215	3 196	2 678	3 587	237	606	358	763
Holders⁵ by age group									
Legal persons	781	110	499	484	117	31	100	66	73
- 29 years	3 656	403	1 815	1 588	1 178	70	381	197	201
30 - 39 "	14 267	1669	6 900	6 207	4 335	232	1 415	836	971
40 - 49 "	20 447	2532	8 925	7 997	6 426	393	1 712	1 089	1 284
50 - 59 "	19 276	1752	7 759	6 781	6 191	324	1 555	1 052	981
60 - 69 "	9 981	690	3 691	3 015	3 577	157	646	402	476
70 - "	2 332	154	541	396	885	28	67	34	78
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	1 784	116	17	9	67	3	17	7	30
100 - 499 "	11 385	947	436	179	1 673	37	168	55	326
500 - 999 "	10 586	1064	1 407	646	4 308	65	302	109	540
1 000 - 1 499 "	8 047	892	1 874	1 090	4 139	87	387	162	518
1 500 - 1 999 "	6 181	742	2 161	1 548	3 051	102	447	255	462
2 000 - 2 999 "	12 122	1254	7 514	6 750	4 401	324	1 272	808	790
3 000 - 3 999 "	10 637	1126	8 652	8 333	2 755	292	1 416	940	654
4 000 - "	9 998	1169	8 069	7 913	2 315	325	1 867	1 340	744

¹ Comprise holdings with dairy cows and/or beef cows. ² Comprise holdings with goats 1 year and over (including he-goats) in 1949, 1959, 1969, 1979 and 1989. ³ In 1969 holdings with breeding sows over 6 months. In 1979 breeding sows which have farrowed and mated young breeding sows not yet farrowed. In 1989 sows and boars over 6 months for breeding. In 1999 sows which have farrowed and young sows determined for breeding. ⁴ Comprise mainly joint operations with milk production. ⁵ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1949, Census of Agriculture 1959, Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

5.2. Domestic animals, by county and various structural classifications

	Horses	Cattle		Sheep 1 year and over	Goats which have kidded ²	Pigs		Laying hens
		Total	Cows ¹			Total	Breeding sows ³	
1949	196 861	1 204 571	755 701	..	..	365 332	..	43 044 498
1959	115 798	1 099 350	594 432	834 470	74 754	435 245	61 787	2 668 394
1969	40 635	971 928	436 353	837 859	71 924	621 317	74 438	3 270 423
1979	20 704	968 843	372 288	862 504	57 849	672 754	81 951	3 827 799
1989	17 417	949 369	340 469	899 080	67 691	656 695	84 233	3 441 719
1999	26 959	1 033 070	349 757	955 367	55 023	738 372	97 495	3 181 174
1999								
County								
Østfold	1 986	25 965	8 890	4 711	80	60 553	7 691	378 036
Akershus and Oslo	2 629	28 102	9 185	8 385	109	39 187	5 109	241 441
Hedmark	2 357	65 126	22 885	54 471	1 770	91 458	10 968	336 254
Oppland	2 523	113 683	38 548	98 938	4 976	67 209	9 797	161 013
Buskerud	2 012	26 230	9 361	42 782	1 453	14 591	2 376	75 487
Vestfold	1 410	15 966	5 314	3 102	64	55 148	7 189	161 453
Telemark	1 313	13 832	4 474	26 683	1 553	13 875	1 942	114 947
Aust-Agder	675	10 470	3 456	18 214	29	5 657	605	80 407
Vest-Agder	773	26 095	8 479	26 382	27	7 208	1 357	94 819
Rogaland	2 304	173 483	56 090	157 659	1 287	164 528	20 201	801 768
Hordaland	1 571	55 712	19 505	103 897	4 816	16 744	1 999	171 476
Sogn og Fjordane	1 010	60 635	22 959	105 632	10 066	10 555	1 719	74 683
Møre og Romsdal	1 947	99 670	32 839	60 453	6 881	15 463	2 128	84 964
Sør-Trøndelag	1 887	101 759	33 927	56 937	211	27 004	3 958	122 578
Nord-Trøndelag	838	113 907	38 173	39 812	1 163	114 051	15 466	154 928
Nordland	905	72 805	24 481	81 467	4 614	23 084	3 339	69 119
Troms	584	20 462	7 492	53 491	15 872	9 965	1 337	51 740
Finnmark	235	9 168	3 699	12 351	52	2 092	314	6 061
Agricultural area in use								
- 4 decares ⁵	37	26 083	10 210	581	751	3 661	394	30 410
5 - 49 "	4 204	7 970	1 734	122 545	3 889	33 870	4 822	747 477
50 - 99 "	6 163	66 799	21 645	271 788	22 603	69 655	9 369	476 827
100 - 199 "	8 411	368 917	130 352	354 103	23 427	236 227	32 048	892 559
200 - 299 "	4 062	318 105	107 827	130 709	2 784	181 747	24 874	459 160
300 - 499 "	2 674	186 111	59 288	63 336	1 415	148 392	18 582	350 945
500 - "	1 408	59 085	18 701	12 305	154	64 820	7 406	223 796
Holders⁶ by gender								
Legal persons	772	33 163	12 586	4 785	1 191	12 816	2 105	110 138
Males	20 787	914 304	307 831	819 707	44 857	664 225	87 549	2 724 498
Females	5 400	85 603	29 340	130 875	8 975	61 331	7 841	346 538
Holders⁶ by age group								
Legal persons	772	33 163	12 586	4 785	1 191	12 816	2 105	110 138
- 29 years	1 519	63 996	21 246	53 680	2 661	42 293	4 592	107 828
30 - 39 "	6 670	254 302	83 526	196 630	11 707	184 534	22 862	672 625
40 - 49 "	8 896	314 627	106 475	277 437	16 842	224 103	31 065	932 287
50 - 59 "	6 576	260 101	88 794	274 358	14 597	206 643	28 497	890 878
60 - 69 "	2 133	98 167	33 942	128 688	7 278	64 816	8 045	444 671
70 - "	393	8 714	3 188	19 789	747	3 167	329	22 747
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	652	106	26	1 064	19	577	29	1 076
100 - 499 "	4 114	4 039	757	28 899	212	5 875	444	43 920
500 - 999 "	3 938	17 228	3 507	114 507	724	12 797	1 018	148 309
1 000 - 1 499 "	3 735	30 432	7 138	158 822	1 053	22 270	1 613	289 216
1 500 - 1 999 "	2 871	41 851	12 187	148 336	1 894	37 586	4 004	333 821
2 000 - 2 999 "	4 222	212 181	73 751	248 643	14 421	147 952	17 447	722 765
3 000 - 3 999 "	3 446	322 045	114 467	144 518	16 649	185 612	24 374	551 271
4 000 - "	3 981	405 188	137 924	110 578	20 051	325 703	48 566	1 090 796

¹ Comprise dairy cows and beef cows. ² Comprise goats 1 year and over (including he-goats) in 1949, 1959, 1969, 1979 and 1989. ³ In 1969 breeding sows over 6 months. In 1979 breeding sows which have farrowed and mated young breeding sows not yet farrowed. In 1989 sows and boars over 6 months for breeding. In 1999 sows which have farrowed and young sows determined for breeding. ⁴ Included cocks. ⁵ Comprise mainly joint operations with milk production. ⁶ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1949, Census of Agriculture 1959, Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

5.3. Average number of animals per holding, by kind of animal, county and various structural classifications

	Cattle				Sheeps 1 year and over	Goats which have kidded ²	Breeding sows ³	Laying hens
	Total	Cows, total ¹	Dairy cows	Beef cows				
1949 .....	..	3,9	..	..	..	..	..	422
1959	7,2	4,0	..	..	..	..	..	31
1969	10,6	5,3	..	..	12,1	20,6	4,8	80
1979	18,0	9,6	..	..	19,4	33,8	9,2	261
1989	25,3	11,7	..	..	31,1	45,9	16,1	580
1999	34,3	13,2	13,8	6,7	42,1	44,6	26,5	783
1999								
County								
Østfold	43,2	16,1	18,6	8,0	19,9	5,3	28,2	1 609
Akershus and Oslo	45,8	16,5	18,3	9,5	28,5	8,4	24,9	1 178
Hedmark	38,6	14,7	15,4	8,7	49,0	26,8	32,8	1 210
Oppland	35,2	13,1	13,1	7,9	49,5	47,4	24,0	557
Buskerud	29,6	11,9	12,0	8,8	48,2	38,2	32,5	427
Vestfold	43,3	16,0	19,2	10,0	20,4	7,1	36,7	1 481
Telemark	23,3	9,4	10,2	6,7	40,7	36,1	23,7	668
Aust-Agder	24,1	10,3	11,1	6,5	40,8	2,2	17,3	812
Vest-Agder	27,2	10,6	11,5	5,3	31,0	2,1	29,5	596
Rogaland	43,6	15,8	16,9	5,8	49,4	19,5	28,7	1 243
Hordaland	22,0	9,6	10,6	4,1	32,3	37,3	12,7	503
Sogn og Fjordane	22,3	9,9	10,3	4,4	36,0	55,0	14,9	317
Møre og Romsdal	31,7	12,9	13,6	5,3	32,4	60,4	18,2	339
Sør-Trøndelag	37,8	13,8	14,2	5,7	55,3	9,2	23,1	542
Nord-Trøndelag	42,6	15,3	15,5	7,0	49,4	24,7	29,7	717
Nordland	36,1	12,9	13,3	6,9	49,5	44,4	21,3	269
Troms	28,2	12,5	13,2	5,3	48,0	64,3	22,7	417
Finnmark	34,1	15,2	15,6	2,0	47,1	7,4	15,0	135
Agricultural area in use								
- 4 decares ⁵	68,6	27,0	26,5	5,9	26,4	187,8	30,3	2 339
5 - 49 "	6,6	3,4	4,5	2,4	21,2	22,6	18,8	761
50 - 99 "	13,9	6,4	7,2	3,9	38,0	48,4	19,2	541
100 - 199 "	28,8	11,2	11,7	5,3	55,1	51,0	22,6	708
200 - 299 "	44,4	15,7	15,9	7,3	59,3	32,8	30,8	841
300 - 499 "	60,2	19,9	19,9	10,1	66,7	34,5	36,2	1 210
500 - "	87,3	28,6	29,1	15,9	71,1	22,0	41,6	2 459
Holders⁶ by gender								
Legal persons	66,5	26,0	26,6	6,4	40,9	38,4	31,9	1 509
Males	34,6	13,2	13,7	6,9	43,1	46,4	26,9	844
Females	26,8	11,0	11,9	5,6	36,5	37,9	21,9	454
Holders⁶ by age group								
Legal persons	66,5	26,0	26,6	6,4	40,9	38,4	31,9	1 509
- 29 years	35,3	13,4	14,0	6,7	45,6	38,0	23,3	537
30 - 39 "	36,9	13,5	14,0	7,1	45,4	50,5	27,3	693
40 - 49 "	35,3	13,3	13,8	7,1	43,2	42,9	28,5	726
50 - 59 "	33,5	13,1	13,6	6,8	44,3	45,1	27,1	908
60 - 69 "	26,6	11,3	12,1	5,2	36,0	46,4	20,0	934
70 - "	16,1	8,1	8,9	5,1	22,4	26,7	9,7	292
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	6,2	2,9	-	2,9	15,9	6,3	4,1	36
100 - 499 "	9,3	4,2	8,9	3,5	17,3	5,7	8,1	135
500 - 999 "	12,2	5,4	7,9	5,0	26,6	11,1	9,3	275
1 000 - 1 499 "	16,2	6,5	7,7	5,9	38,4	12,1	10,0	558
1 500 - 1 999 "	19,4	7,9	8,5	6,6	48,6	18,6	15,7	723
2 000 - 2 999 "	28,2	10,9	11,1	7,3	56,5	44,5	21,6	915
3 000 - 3 999 "	37,2	13,7	13,6	6,9	52,5	57,0	25,9	843
4 000 - "	50,2	17,4	17,0	7,9	47,8	61,7	36,2	1 466

¹ Comprise dairy cows and beef cows. ² Comprise goats 1 year and over (including he-goats) in 1949, 1959, 1969, 1979 and 1989. ³ In 1969 breeding sows over 6 months. In 1979 breeding sows which have farrowed and mated young breeding sows not yet farrowed. In 1989 sows and boars over 6 months for breeding. In 1999 sows which have farrowed and young sows determined for breeding. ⁴ Included cocks. ⁵ Comprise mainly joint operations with milk production. ⁶ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1949, Census of Agriculture 1959, Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

5.4. Holdings with livestock and holdings with various kinds of livestock, by county and various structural classifications

	Without livestock	With livestock, total ¹	With cattle only ²	With sheep 1 year and over only ²	With pigs only ²	With both cattle and sheep 1 year and over, but not any pigs ²	With both cattle and pigs, but not any sheep 1 year and over ²	With both sheep 1 year and over and pigs, but not any cattle ²	With poultry only ^{2,3}
1989	34 918	64 464	22 250	17 255	2 478	8 327	3 708	621	1 626
1999	19 682	51 058	19 262	13 374	1 710	6 250	2 412	682	1 156
1999									
County									
Østfold	2 190	1 414	379	110	227	49	115	29	194
Akershus and Oslo	2 167	1 317	402	164	171	46	95	20	83
Hedmark	2 806	3 168	1 133	659	262	272	158	55	175
Oppland	1 881	5 173	2 308	1 308	148	421	328	90	63
Buskerud	1 929	1 891	629	637	47	142	50	32	62
Vestfold	1 602	861	237	69	172	28	63	18	73
Telemark	1 199	1 417	393	454	58	105	46	26	58
Aust-Agder	321	937	308	335	18	59	36	11	40
Vest-Agder	332	1 662	606	514	12	232	39	18	30
Rogaland	452	5 737	1 401	1 113	105	1 435	582	130	138
Hordaland	605	4 990	1 358	2 075	16	844	138	44	35
Sogn og Fjordane	585	4 710	1 490	1 696	4	991	90	18	14
Møre og Romsdal	464	4 554	2 269	1 088	19	612	113	28	33
Sør-Trøndelag	1 046	3 759	2 189	670	71	237	134	37	60
Nord-Trøndelag	1 315	3 711	2 022	441	338	214	298	47	61
Nordland	413	3 420	1 458	1 104	27	346	99	37	22
Troms	241	1 813	471	741	8	181	22	36	13
Finnmark	134	524	209	196	7	36	6	6	2
Agricultural area in use									
- 4 decares ⁴	323	406	337	-	4	19	16	-	18
5 - 49 "	5 657	8 131	729	4 869	213	310	66	127	437
50 - 99 "	5 007	11 713	2 860	4 995	269	1 362	249	174	188
100 - 199 "	4 758	17 528	8 280	2 808	476	2 610	1 024	245	205
200 - 299 "	1 942	8 425	4 719	489	332	1 329	605	83	109
300 - 499 "	1 405	3 868	1 909	177	285	538	356	47	118
500 - "	590	987	428	36	131	82	96	6	81
Holder⁵ by age group									
Legal persons	194	587	363	19	9	41	37	6	12
- 29 years	857	2 799	1 122	587	94	396	153	43	48
30 - 39 "	3 447	10 820	4 380	2 203	383	1 389	572	184	244
40 - 49 "	5 565	14 882	5 682	3 665	475	1 801	726	203	363
50 - 59 "	5 671	13 605	5 006	3 823	489	1 606	653	175	327
60 - 69 "	2 997	6 984	2 377	2 396	238	862	243	61	141
70 - "	951	1 381	332	681	22	155	28	10	21
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	1 552	232	16	58	10	1	-	2	19
100 - 499 "	8 339	3 046	325	1 414	77	72	15	37	156
500 - 999 "	4 380	6 206	938	3 601	118	325	52	80	197
1 000 - 1 499 "	1 989	6 058	1 116	3 242	169	545	79	74	171
1 500 - 1 999 "	1 072	5 109	1 355	2 134	176	563	106	92	143
2 000 - 2 999 "	1 032	11 090	4 995	2 125	469	1 635	439	183	225
3 000 - 3 999 "	489	10 148	5 723	601	324	1 620	720	110	100
4 000 - "	829	9 169	4 794	199	367	1 489	1 001	104	145

¹ Livestock are: Horses, cattle, sheep, goats, pigs, broilers, laying hens, pullets, turkeys, ducks, geese and fur bearing animals. In addition the following livestock were included in 1999: Rabbits, deer, ostriches, llamas, alpacas, donkeys and horses in agistment in grazing season. ² The holdings may in addition have horse, fur bearing animals, rabbits, ostriches, llamas, alpacas, deer, donkeys or horses in agistment in grazing season. ³ Comprise laying hens, pullets, broilers, fattening turkeys, fattening ducks, fattening geese and breeding animals of duck, turkey and goose. ⁴ Comprise mainly joint operations with milk production. ⁵ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

5.5. Holdings with cattle, by county and various structural classifications

	Holdings with cattle, total	With cows				With other cattle	
		Total	Dairy cows, but not any beef cows	Beef cows, but not any dairy cows	Both dairy cows and beef cows	Total	Of which without dairy cows and/or beef cows
1969.....	92 116	82 177	..	..	..	87 192	9 939
1979.....	53 793	38 906	..	..	..	53 037	14 887
1989.....	37 584	29 143	..	..	..	37 272	8 441
1999.....	30 130	26 468	21 004	3 809	1 655	29 983	3 662
1999							
County							
Østfold.....	601	553	306	180	67	595	48
Akershus and Oslo.....	614	555	300	186	69	608	59
Hedmark.....	1 688	1 562	1 046	365	151	1 685	126
Oppland.....	3 227	2 938	2 452	290	196	3 209	289
Buskerud.....	887	789	539	190	60	885	98
Vestfold.....	369	332	156	147	29	369	37
Telemark.....	594	475	291	158	26	588	119
Aust-Agder.....	435	335	248	74	13	432	100
Vest-Agder.....	959	797	612	145	40	949	162
Rogaland.....	3 983	3 543	2 877	449	217	3 967	440
Hordaland.....	2 527	2 038	1 561	387	90	2 504	489
Sogn og Fjordane.....	2 722	2 321	2 076	201	44	2 699	401
Møre og Romsdal.....	3 145	2 541	2 152	279	110	3 132	604
Sør-Trøndelag.....	2 692	2 458	2 054	229	175	2 685	234
Nord-Trøndelag.....	2 677	2 496	1 994	253	249	2 672	181
Nordland.....	2 016	1 892	1 571	213	108	2 011	124
Troms.....	725	599	538	55	6	724	126
Finnmark.....	269	244	231	8	5	269	25
Agricultural area in use							
- 4 decares ¹	380	378	336	2	40	366	2
5 - 49 ".....	1 204	504	238	261	5	1 171	700
50 - 99 ".....	4 791	3 400	2 470	890	40	4 738	1 391
100 - 199 ".....	12 815	11 689	9 803	1 421	465	12 783	1 126
200 - 299 ".....	7 170	6 871	5 725	618	528	7 161	299
300 - 499 ".....	3 093	2 972	2 099	431	442	3 089	121
500 - ".....	677	654	333	186	135	675	23
Holders² by age group							
Legal persons.....	499	484	394	32	58	483	15
- 29 years.....	1 815	1 588	1 230	245	113	1 808	227
30 - 39 ".....	6 900	6 207	4 829	947	431	6 881	693
40 - 49 ".....	8 925	7 997	6 286	1 174	537	8 889	928
50 - 59 ".....	7 759	6 781	5 527	868	386	7 737	978
60 - 69 ".....	3 691	3 015	2 449	444	122	3 659	676
70 - ".....	541	396	289	99	8	526	145
Total employment in agriculture and horticulture on the holding							
- 99 man-hours.....	17	9	-	9	-	16	8
100 - 499 ".....	436	179	20	157	2	431	257
500 - 999 ".....	1 407	646	96	548	2	1 392	761
1 000 - 1 499 ".....	1 874	1 090	308	764	18	1 854	784
1 500 - 1 999 ".....	2 161	1 548	864	653	31	2 132	613
2 000 - 2 999 ".....	7 514	6 750	5 510	937	303	7 471	764
3 000 - 3 999 ".....	8 652	8 333	7 391	421	521	8 634	319
4 000 - ".....	8 069	7 913	6 815	320	778	8 053	156

¹ Comprise mainly joint operations with milk production. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

5.6. Number of cattle, by county and various structural classifications

	Cattle, total	Cows			Total	Other cattle				
		Total	Dairy cows	Beef cows		Of which on holdings without any cows	Male animals 1 year and under	Male animals 1 years and over	Female animals 1 year and under	Female animals 1 years and over
1969	971 928	436 353	..	..	535 575	51 902	156 344	47 023	164 128	148 313
1979	968 843	372 288	..	..	596 555	131 044	177 025	79 275	174 268	165 987
1989	949 369	340 469	..	..	608 900	101 454	..	..	..	..
1999	1 033 070	349 757	312 948	36 809	683 313	49 760	184 111	124 641	176 172	198 389
1999										
County										
Østfold	25 965	8 890	6 921	1 969	17 075	551	4 371	3 247	4 341	5 116
Akershus and Oslo	28 102	9 185	6 762	2 423	18 917	1 019	4 805	3 967	4 576	5 569
Hedmark	65 126	22 885	18 416	4 469	42 241	1 663	11 460	7 316	11 228	12 237
Oppland	113 683	38 548	34 714	3 834	75 135	5 108	21 410	12 010	20 145	21 570
Buskerud	26 230	9 361	7 164	2 197	16 869	1 180	4 442	2 744	4 641	5 042
Vestfold	15 966	5 314	3 546	1 768	10 652	584	2 817	2 342	2 592	2 901
Telemark	13 832	4 474	3 245	1 229	9 358	1 385	2 578	2 029	2 260	2 491
Aust-Agder	10 470	3 456	2 893	563	7 014	1 061	1 801	1 534	1 683	1 996
Vest-Agder	26 095	8 479	7 491	988	17 616	1 739	4 716	3 801	4 077	5 022
Rogaland	173 483	56 090	52 221	3 869	117 393	8 250	30 307	22 516	29 399	35 171
Hordaland	55 712	19 505	17 541	1 964	36 207	4 273	9 713	5 773	9 703	11 018
Sogn og Fjordane	60 635	22 959	21 881	1 078	37 676	3 558	10 971	3 870	11 485	11 350
Møre og Romsdal	99 670	32 839	30 771	2 068	66 831	8 369	18 219	12 868	16 761	18 983
Sør-Trøndelag	101 759	33 927	31 614	2 313	67 832	4 495	18 326	13 107	17 405	18 994
Nord-Trøndelag	113 907	38 173	34 671	3 502	75 734	3 242	20 089	15 226	18 736	21 683
Nordland	72 805	24 481	22 253	2 228	48 324	1 816	13 162	9 338	12 052	13 772
Troms	20 462	7 492	7 171	321	12 970	1 165	3 478	2 215	3 479	3 798
Finnmark	9 168	3 699	3 673	26	5 469	302	1 446	738	1 609	1 676
Agricultural area in use										
- 4 decares ¹	26 083	10 210	9 964	246	15 873	182	4 339	2 413	4 606	4 515
5 - 49 "	7 970	1 734	1 102	632	6 236	3 972	2 065	1 759	1 011	1 401
50 - 99 "	66 799	21 645	18 020	3 625	45 154	13 577	12 989	9 728	10 514	11 923
100 - 199 "	368 917	130 352	120 308	10 044	238 565	18 266	63 691	38 536	64 756	71 582
200 - 299 "	318 105	107 827	99 489	8 338	210 278	8 180	55 880	37 959	54 833	61 606
300 - 499 "	186 111	59 288	50 457	8 831	126 823	4 612	34 287	25 876	30 754	35 906
500 - "	59 085	18 701	13 608	5 093	40 384	971	10 860	8 370	9 698	11 456
Holders² by age group										
Legal persons	33 163	12 586	12 012	574	20 577	794	5 553	3 278	5 852	5 894
- 29 years	63 996	21 246	18 864	2 382	42 750	3 488	11 764	8 395	10 594	11 997
30 - 39 "	254 302	83 526	73 800	9 726	170 776	10 440	47 664	31 744	43 060	48 308
40 - 49 "	314 627	106 475	94 404	12 071	208 152	12 024	55 817	37 599	54 294	60 442
50 - 59 "	260 101	88 794	80 245	8 549	171 307	13 994	45 272	31 047	44 357	50 631
60 - 69 "	98 167	33 942	30 981	2 961	64 225	8 052	16 722	11 562	16 645	19 296
70 - "	8 714	3 188	2 642	546	5 526	968	1 319	1 016	1 370	1 821
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	106	26	-	26	80	34	16	26	23	15
100 - 499 "	4 039	757	195	562	3 282	1 763	1 042	957	555	728
500 - 999 "	17 228	3 507	773	2 734	13 721	6 602	4 164	4 492	2 140	2 925
1 000 - 1 499 "	30 432	7 138	2 508	4 630	23 294	9 176	7 251	7 167	3 998	4 878
1 500 - 1 999 "	41 851	12 187	7 640	4 547	29 664	8 040	8 567	7 804	5 945	7 348
2 000 - 2 999 "	212 181	73 751	64 670	9 081	138 430	13 282	37 081	25 923	35 874	39 552
3 000 - 3 999 "	322 045	114 467	107 930	6 537	207 578	6 430	54 401	33 169	56 677	63 331
4 000 - "	405 188	137 924	129 232	8 692	267 264	4 433	71 589	45 103	70 960	79 612

¹ Comprise mainly joint operations with milk production. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

5.7. Holdings with dairy cows and number of dairy cows, by size of herd, county and various structural classifications

	Holdings with dairy cows					Number of dairy cows				
	Total	By size of herd				Total	By size of herd			
		1-9	10-14	15-19	20-		1-9	10-14	15-19	20-
1969 ¹	82 177	71 598	7 156	2 008	1 415	436 353	283 162	82 300	33 271	37 620
1979 ¹	38 906	23 147	7 980	4 223	3 556	372 288	112 224	93 928	70 312	95 824
1989 ¹	29 143	11 610	9 711	5 085	2 737	340 469	70 462	115 350	84 064	70 593
1999	22 659	6 047	7 979	5 201	3 432	312 948	42 938	95 428	86 660	87 922
1999										
County										
Østfold	373	40	97	103	133	6 921	273	1 195	1 743	3 710
Akershus and Oslo	369	46	85	100	138	6 762	332	1 050	1 695	3 685
Hedmark	1 197	217	413	335	232	18 416	1 556	4 980	5 572	6 308
Oppland	2 648	794	1 059	491	304	34 714	5 869	12 456	8 157	8 232
Buskerud	599	222	237	88	52	7 164	1 580	2 803	1 464	1 317
Vestfold	185	20	28	62	75	3 546	153	349	1 053	1 991
Telemark	317	169	87	40	21	3 245	1 053	1 021	671	500
Aust-Agder	261	109	103	37	12	2 893	788	1 226	597	282
Vest-Agder	652	278	213	102	59	7 491	1 883	2 490	1 685	1 433
Rogaland	3 094	472	874	816	932	52 221	3 553	10 582	13 772	24 314
Hordaland	1 651	791	553	235	72	17 541	5 415	6 542	3 845	1 739
Sogn og Fjordane	2 120	1 048	737	240	95	21 881	7 061	8 568	3 957	2 295
Møre og Romsdal	2 262	561	850	566	285	30 771	3 995	10 273	9 440	7 063
Sør-Trøndelag	2 229	393	896	647	293	31 614	2 944	10 817	10 740	7 113
Nord-Trøndelag	2 243	286	815	709	433	34 671	2 161	9 910	11 774	10 826
Nordland	1 679	442	632	407	198	22 253	3 189	7 548	6 773	4 743
Troms	544	127	228	139	50	7 171	899	2 746	2 323	1 203
Finmark	236	32	72	84	48	3 673	234	872	1 399	1 168
Agricultural area in use										
- 4 decares ²	376	2	35	75	264	9 964	12	438	1 288	8 226
5 - 49 "	243	238	4	1	-	1 102	1 043	43	16	-
50 - 99 "	2 510	2 110	381	17	2	18 020	13 526	4 183	267	44
100 - 199 "	10 268	3 153	4 888	1 850	377	120 308	24 054	57 743	30 259	8 252
200 - 299 "	6 253	456	2 177	2 348	1 272	99 489	3 623	26 867	39 317	29 682
300 - 499 "	2 541	83	461	840	1 157	50 457	645	5 751	14 311	29 750
500 - "	468	5	33	70	360	13 608	35	403	1 202	11 968
Holders³ by age group										
Legal persons	452	11	50	94	297	12 012	73	622	1 606	9 711
- 29 years	1 343	315	492	315	221	18 864	2 290	5 860	5 218	5 496
30 - 39 "	5 260	1 263	1 881	1 282	834	73 800	9 235	22 576	21 402	20 587
40 - 49 "	6 823	1 681	2 455	1 687	1 000	94 404	12 235	29 354	28 078	24 737
50 - 59 "	5 913	1 582	2 171	1 351	809	80 245	11 271	26 008	22 516	20 450
60 - 69 "	2 571	999	861	452	259	30 981	6 671	10 196	7 507	6 607
70 - "	297	196	69	20	12	2 642	1 163	812	333	334
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	-	-	-	-	-	-	-	-	-	-
100 - 499 "	22	14	5	3	-	195	88	57	50	-
500 - 999 "	98	67	17	11	3	773	318	193	179	83
1 000 - 1 499 "	326	245	56	19	6	2 508	1 393	650	318	147
1 500 - 1 999 "	895	608	215	55	17	7 640	3 843	2 487	909	401
2 000 - 2 999 "	5 813	2 514	2 122	849	328	64 670	17 805	24 847	14 001	8 017
3 000 - 3 999 "	7 912	1 662	3 259	2 045	946	107 930	12 396	39 130	33 888	22 516
4 000 - "	7 593	937	2 305	2 219	2 132	129 232	7 095	28 064	37 315	56 758

¹ Comprise both dairy cows and beef cows. ² Comprise mainly joint operations with milk production. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

5.8. Holdings with sheep and number of sheep, by county and various structural classifications

	Holdings with sheep					Number of sheep				
	Total	With sheep 1 year and over			With lambs	Total	Sheep 1 year and over			Lambs
		Total	Ewes	Rams			Total	Ewes	Rams	
1969	69 310	69 075	..	..	67 609	1 840 755	837 859	..	..	1 002 896
1979	44 747	44 514	..	..	43 623	1 952 092	862 504	..	..	1 089 588
1989	29 108	28 887	..	..	28 694	2 183 098	899 080	..	..	1 284 018
1999	22 943	22 709	22 673	13 169	22 518	2 324 789	955 367	923 849	31 518	1 369 422
1999										
County										
Østfold	243	237	236	125	227	11 460	4 711	4 511	200	6 749
Akershus and Oslo	301	294	292	140	285	19 638	8 385	8 122	263	11 253
Hedmark	1 131	1 111	1 109	486	1 108	135 491	54 471	53 115	1 356	81 020
Oppland	2 009	1 997	1 994	1 171	1 977	254 056	98 938	96 054	2 884	155 118
Buskerud	898	888	888	404	885	111 608	42 782	41 673	1 109	68 826
Vestfold	161	152	151	67	151	7 750	3 102	2 997	105	4 648
Telemark	667	656	655	398	655	67 007	26 683	25 912	771	40 324
Aust-Agder	450	446	446	226	442	45 163	18 214	17 692	522	26 949
Vest-Agder	871	851	851	469	854	64 270	26 382	25 440	942	37 888
Rogaland	3 236	3 194	3 192	2 309	3 185	387 735	157 659	153 072	4 587	230 076
Hordaland	3 230	3 220	3 216	1 846	3 164	240 764	103 897	99 409	4 488	136 867
Sogn og Fjordane	2 944	2 938	2 937	1 681	2 899	243 149	105 632	101 185	4 447	137 517
Møre og Romsdal	1 884	1 866	1 859	917	1 846	142 979	60 453	57 796	2 657	82 526
Sør-Trøndelag	1 047	1 030	1 029	655	1 036	134 061	56 937	55 135	1 802	77 124
Nord-Trøndelag	829	806	802	439	802	99 312	39 812	38 681	1 131	59 500
Nordland	1 657	1 647	1 642	961	1 631	198 224	81 467	78 937	2 530	116 757
Troms	1 120	1 114	1 112	693	1 111	133 277	53 491	52 212	1 279	79 786
Finnmark	265	262	262	182	260	28 845	12 351	11 906	445	16 494
Agricultural area in use										
- 4 decares	24	22	22	10	23	1 446	581	566	15	865
5 - 49 "	5 832	5 779	5 770	2 702	5 677	282 887	122 545	117 386	5 159	160 342
50 - 99 "	7 196	7 149	7 142	4 155	7 084	649 563	271 788	262 336	9 452	377 775
100 - 199 "	6 500	6 432	6 420	4 141	6 409	871 165	354 103	343 142	10 961	517 062
200 - 299 "	2 239	2 204	2 201	1 421	2 200	328 329	130 709	126 877	3 832	197 620
300 - 499 "	971	950	947	632	951	160 164	63 336	61 572	1 764	96 828
500 - "	181	173	171	108	174	31 235	12 305	11 970	335	18 930
Holders¹ by age group										
Legal persons	122	117	116	62	117	11 860	4 785	4 628	157	7 075
- 29 years	1 205	1 178	1 176	736	1 172	129 348	53 680	52 005	1 675	75 668
30 - 39 "	4 419	4 335	4 328	2 711	4 315	482 043	196 630	190 216	6 414	285 413
40 - 49 "	6 495	6 426	6 413	3 868	6 382	677 392	277 437	267 706	9 731	399 955
50 - 59 "	6 228	6 191	6 186	3 619	6 133	669 778	274 358	265 738	8 620	395 420
60 - 69 "	3 584	3 577	3 570	1 813	3 530	308 527	128 688	124 412	4 276	179 839
70 - "	890	885	884	360	869	45 841	19 789	19 144	645	26 052
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	76	67	67	28	69	2 337	1 064	1 021	43	1 273
100 - 499 "	1 705	1 673	1 671	767	1 627	65 280	28 899	27 614	1 285	36 381
500 - 999 "	4 341	4 308	4 301	2 217	4 239	266 269	114 507	109 857	4 650	151 762
1 000 - 1 499 "	4 160	4 139	4 134	2 444	4 112	380 152	158 822	152 973	5 849	221 330
1 500 - 1 999 "	3 065	3 051	3 050	1 939	3 031	357 572	148 336	143 628	4 708	209 236
2 000 - 2 999 "	4 440	4 401	4 392	2 758	4 387	610 092	248 643	241 064	7 579	361 449
3 000 - 3 999 "	2 793	2 755	2 751	1 646	2 734	362 090	144 518	140 330	4 188	217 572
4 000 - "	2 363	2 315	2 307	1 370	2 319	280 997	110 578	107 362	3 216	170 419

5.9. Holdings with sheep 1 year and over and number of sheep 1 year and over, by size of flock, county and various structural classifications

	Holdings with sheep 1 year and over					Number of sheep 1 year and over				
	Total	By size of flock				Total	By size of flock			
		1-19	20-49	50-99	100-		1-19	20-49	50-99	100-
1969	69 075	58 241	8 822	1 686	326	837 859	427 808	253 637	109 932	46 482
1979	44 514	31 131	9 801	2 827	755	862 504	277 622	289 983	187 400	107 499
1989	28 887	13 235	10 261	4 216	1 175	899 080	138 286	320 130	283 543	157 121
1999	22 709	6 790	8 997	5 223	1 699	955 367	72 219	292 859	358 239	232 050
1999										
County										
Østfold	237	160	54	16	7	4 711	1 142	1 566	1 137	866
Akershus and Oslo	294	161	74	46	13	8 385	1 206	2 321	3 296	1 562
Hedmark	1 111	271	419	308	113	54 471	2 679	14 065	21 688	16 039
Oppland	1 997	399	819	581	198	98 938	4 235	27 782	40 262	26 659
Buskerud	888	181	357	267	83	42 782	1 845	12 085	17 948	10 904
Vestfold	152	102	34	13	3	3 102	779	1 094	831	398
Telemark	656	175	270	182	29	26 683	1 653	8 915	12 493	3 622
Aust-Agder	446	126	182	112	26	18 214	1 340	5 879	7 620	3 375
Vest-Agder	851	355	342	134	20	26 382	3 618	11 088	8 941	2 735
Rogaland	3 194	679	1 290	901	324	157 659	7 672	42 758	61 929	45 300
Hordaland	3 220	1 162	1 474	498	86	103 897	13 333	46 440	32 696	11 428
Sogn og Fjordane	2 938	967	1 280	572	119	105 632	11 523	40 499	38 596	15 014
Møre og Romsdal	1 866	745	739	319	63	60 453	7 899	23 128	21 359	8 067
Sør-Trøndelag	1 030	240	355	278	157	56 937	2 400	11 800	19 885	22 852
Nord-Trøndelag	806	255	244	204	103	39 812	2 276	8 060	14 272	15 204
Nordland	1 647	442	578	419	208	81 467	4 632	19 355	29 282	28 198
Troms	1 114	294	394	308	118	53 491	3 112	13 033	21 410	15 936
Finnmark	262	76	92	65	29	12 351	875	2 991	4 594	3 891
Agricultural area in use										
- 4 decares	22	10	11	-	1	581	112	329	-	140
5 - 49 "	5 779	2 978	2 572	215	14	122 545	32 093	75 689	13 058	1 705
50 - 99 "	7 149	1 616	3 594	1 824	115	271 788	18 472	121 308	117 882	14 126
100 - 199 "	6 432	1 349	1 914	2 309	860	354 103	13 684	64 722	164 873	110 824
200 - 299 "	2 204	551	626	587	440	130 709	5 388	21 345	41 821	62 155
300 - 499 "	950	235	242	253	220	63 336	2 070	8 138	18 071	35 057
500 - "	173	51	38	35	49	12 305	400	1 328	2 534	8 043
Holders¹ by age group										
Legal persons	117	46	47	14	10	4 785	476	1 501	949	1 859
- 29 years	1 178	308	454	303	113	53 680	3 160	14 966	20 749	14 805
30 - 39 "	4 335	1 219	1 630	1 073	413	196 630	12 352	53 579	73 653	57 046
40 - 49 "	6 426	1 793	2 595	1 545	493	277 437	18 721	85 597	106 345	66 774
50 - 59 "	6 191	1 690	2 450	1 550	501	274 358	18 794	79 929	106 503	69 132
60 - 69 "	3 577	1 213	1 543	662	159	128 688	13 387	48 926	45 186	21 189
70 - "	885	521	278	76	10	19 789	5 329	8 361	4 854	1 245
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	67	53	9	4	1	1 064	369	260	308	127
100 - 499 "	1 673	1 125	486	56	6	28 899	10 740	13 748	3 513	898
500 - 999 "	4 308	1 650	2 263	365	30	114 507	18 470	69 578	22 616	3 843
1 000 - 1 499 "	4 139	890	2 138	1 029	82	158 822	10 391	72 863	65 447	10 121
1 500 - 1 999 "	3 051	552	1 176	1 124	199	148 336	6 317	39 996	77 338	24 685
2 000 - 2 999 "	4 401	955	1 294	1 464	688	248 643	9 950	43 020	106 170	89 503
3 000 - 3 999 "	2 755	813	865	657	420	144 518	8 404	28 345	46 260	61 509
4 000 - "	2 315	752	766	524	273	110 578	7 578	25 049	36 587	41 364

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

5.10. Holdings with goats and number of goats, by county and various structural classifications

	Holdings with goats					Number of goats				
	Total	With goats which have kidded ¹			With he-goats, young goats over 6 months and/or kids 6 months and under ²	Total	Goats which have kidded ¹			He-goats, young goats over 6 months and kids 6 months and under ²
		Total	Dairy goats	Other goats			Total	Dairy goats	Other goats	
1969	3 801	3 488	..	..	2 800	91 670	71 924	..	..	19 236
1979	1 969	1 713	..	..	1 706	80 652	57 849	..	..	22 803
1989 .....	..	1 474	..	..	..	..	67 691	..	..	..
1999	1 477	1 235	751	507	1 389	78 590	55 023	51 724	3 299	23 567
1999										
County										
Østfold	27	15	-	15	23	158	80	-	80	78
Akershus and Oslo	24	13	3	11	17	295	109	40	69	186
Hedmark	91	66	36	31	86	2 664	1 770	1 581	189	894
Oppland	119	105	77	33	112	6 981	4 976	4 844	132	2 005
Buskerud	46	38	25	13	43	2 075	1 453	1 369	84	622
Vestfold	15	9	-	9	13	180	64	-	64	116
Telemark	48	43	30	14	42	2 175	1 553	1 494	59	622
Aust-Agder	19	13	-	13	14	76	29	-	29	47
Vest-Agder	24	13	-	13	21	117	27	-	27	90
Rogaland	80	66	16	51	79	2 099	1 287	1 027	260	812
Hordaland	152	129	57	76	144	7 351	4 816	4 122	694	2 535
Sogn og Fjordane	200	183	115	72	192	14 720	10 066	9 289	777	4 654
Møre og Romsdal	142	114	81	34	137	9 728	6 881	6 685	196	2 847
Sør-Trøndelag	35	23	3	20	30	324	211	147	64	113
Nord-Trøndelag	61	47	16	31	53	1 645	1 163	1 064	99	482
Nordland	122	104	64	43	118	6 485	4 614	4 323	291	1 871
Troms	260	247	228	21	254	21 334	15 872	15 739	133	5 462
Finnmark	12	7	-	7	11	183	52	-	52	131
Agricultural area in use										
- 4 decares ³	4	4	4	-	4	1 072	751	751	-	321
5 - 49 "	222	172	62	112	204	6 000	3 889	3 120	769	2 111
50 - 99 "	527	467	331	144	495	31 856	22 603	21 704	899	9 253
100 - 199 "	543	459	302	165	521	33 169	23 427	22 274	1 153	9 742
200 - 299 "	117	85	33	54	109	4 028	2 784	2 596	188	1 244
300 - 499 "	54	41	18	25	49	2 137	1 415	1 243	172	722
500 - "	10	7	1	7	7	328	154	36	118	174
Holders⁴ by age group										
Legal persons	36	31	10	22	34	1 953	1 191	991	200	762
- 29 years	92	70	38	33	87	3 833	2 661	2 515	146	1 172
30 - 39 "	305	232	155	80	293	16 836	11 707	11 213	494	5 129
40 - 49 "	477	393	229	173	447	24 178	16 842	15 909	933	7 336
50 - 59 "	366	324	203	127	338	20 607	14 597	13 732	865	6 010
60 - 69 "	169	157	103	55	160	10 043	7 278	6 791	487	2 765
70 - "	32	28	13	17	30	1 140	747	573	174	393
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	8	3	-	3	8	54	19	-	19	35
100 - 499 "	58	37	3	34	49	566	212	35	177	354
500 - 999 "	107	65	9	56	96	1 274	724	451	273	550
1 000 - 1 499 "	116	87	13	76	107	1 861	1 053	508	545	808
1 500 - 1 999 "	138	102	31	72	126	3 038	1 894	1 490	404	1 144
2 000 - 2 999 "	369	324	221	107	347	20 459	14 421	13 477	944	6 038
3 000 - 3 999 "	323	292	222	77	314	23 316	16 649	16 165	484	6 667
4 000 - "	358	325	252	82	342	28 022	20 051	19 598	453	7 971

¹ In 1969, 1979 and 1989: Goats 1 year and over, including he-goats. ² In 1969 and 1979: Goats under 1 year. ³ Comprise mainly joint operations with milk production.

⁴ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

5.11. Holdings with pigs and number of pigs, by county and various structural classifications

	Holdings with pigs			Number of pigs				
	Total	With pigs for breeding	With other pigs	Total	Pigs for breeding			Other pigs
					Total	Breeding sows and young breeding sows	Breeding boars and young breeding boars	
1969.....	49 970	15 530	48 023	621 317	78 163	74 438	3 725	543 154
1979.....	17 667	8 943	16 820	672 754	86 340	81 951	4 389	586 414
1989.....	8 272	5 229	7 805	656 695	84 233	..	..	572 462
1999.....	5 876	3 686	5 664	738 372	100 408	97 495	2 913	637 964
1999								
County								
Østfold.....	399	273	389	60 553	7 959	7 691	268	52 594
Akershus and Oslo.....	332	205	318	39 187	5 210	5 109	101	33 977
Hedmark.....	559	335	543	91 458	11 424	10 968	456	80 034
Oppland.....	651	411	621	67 209	10 019	9 797	222	57 190
Buskerud.....	154	73	147	14 591	2 484	2 376	108	12 107
Vestfold.....	281	197	271	55 148	7 295	7 189	106	47 853
Telemark.....	150	82	138	13 875	1 995	1 942	53	11 880
Aust-Agder.....	80	35	75	5 657	619	605	14	5 038
Vest-Agder.....	97	46	93	7 208	1 388	1 357	31	5 820
Rogaland.....	1 195	705	1 175	164 528	20 946	20 201	745	143 582
Hordaland.....	282	159	265	16 744	2 153	1 999	154	14 591
Sogn og Fjordane.....	179	117	168	10 555	1 776	1 719	57	8 779
Møre og Romsdal.....	191	118	184	15 463	2 205	2 128	77	13 258
Sør-Trøndelag.....	278	171	267	27 004	4 119	3 958	161	22 885
Nord-Trøndelag.....	743	522	726	114 051	15 675	15 466	209	98 376
Nordland.....	194	157	183	23 084	3 430	3 339	91	19 654
Troms.....	85	59	80	9 965	1 377	1 337	40	8 588
Finnmark.....	26	21	21	2 092	334	314	20	1 758
Agricultural area in use								
- 4 decares.....	22	13	22	3 661	403	394	9	3 258
5 - 49 ".....	499	257	460	33 870	5 013	4 822	191	28 857
50 - 99 ".....	796	490	753	69 655	9 765	9 369	396	59 890
100 - 199 ".....	2 142	1 426	2 067	236 227	32 881	32 048	833	203 346
200 - 299 ".....	1 270	808	1 235	181 747	25 632	24 874	758	156 115
300 - 499 ".....	864	514	851	148 392	19 188	18 582	606	129 204
500 - ".....	283	178	276	64 820	7 526	7 406	120	57 294
Holders¹ by age group								
Legal persons.....	100	67	94	12 816	2 514	2 105	409	10 302
- 29 years.....	381	198	362	42 293	4 693	4 592	101	37 600
30 - 39 ".....	1 415	840	1 369	184 534	23 484	22 862	622	161 050
40 - 49 ".....	1 712	1 091	1 645	224 103	31 910	31 065	845	192 193
50 - 59 ".....	1 555	1 053	1 506	206 643	29 301	28 497	804	177 342
60 - 69 ".....	646	403	628	64 816	8 174	8 045	129	56 642
70 - ".....	67	34	60	3 167	332	329	3	2 835
Total employment in agriculture and horticulture on the holding								
- 99 man-hours.....	17	7	15	577	32	29	3	545
100 - 499 ".....	168	56	152	5 875	464	444	20	5 411
500 - 999 ".....	302	110	275	12 797	1 053	1 018	35	11 744
1 000 - 1 499 ".....	387	163	364	22 270	1 701	1 613	88	20 569
1 500 - 1 999 ".....	447	255	433	37 586	4 104	4 004	100	33 482
2 000 - 2 999 ".....	1 272	812	1 228	147 952	17 901	17 447	454	130 051
3 000 - 3 999 ".....	1 416	943	1 376	185 612	25 489	24 374	1 115	160 123
4 000 - ".....	1 867	1 340	1 821	325 703	49 664	48 566	1 098	276 039

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_ev/.

5.12. Holdings¹ with breeding sows, by size of herd, county and various structural classifications

	Holdings with breeding sows, total	By number of breeding sows				
		1-9	10-19	20-29	30-49	50-
1969	15 444	13 521	1 529	279	98	17
1979	8 914	5 888	1 874	750	334	68
1989	5 229	2 204	1 426	878	530	191
1999	3 676	1 123	779	599	678	497
1999						
County						
Østfold	273	72	42	57	64	38
Akershus and Oslo	205	73	37	28	46	21
Hedmark	334	94	66	38	55	81
Oppland	408	156	91	58	63	40
Buskerud	73	22	18	15	10	8
Vestfold	196	38	26	32	58	42
Telemark	82	36	14	12	11	9
Aust-Agder	35	15	8	3	7	2
Vest-Agder	46	22	8	2	10	4
Rogaland	705	164	176	138	108	119
Hordaland	158	93	36	14	9	6
Sogn og Fjordane	115	50	38	14	9	4
Møre og Romsdal	117	49	33	15	14	6
Sør-Trøndelag	171	63	35	29	26	18
Nord-Trøndelag	521	102	95	100	144	80
Nordland	157	50	37	26	29	15
Troms	59	18	10	15	12	4
Finnmark	21	6	9	3	3	-
Agricultural area in use						
- 4 decares	13	5	1	4	1	2
5 - 49 "	256	130	50	32	28	16
50 - 99 "	487	197	102	81	69	38
100 - 199 "	1 421	461	353	218	252	137
200 - 299 "	807	195	168	151	152	141
300 - 499 "	514	106	78	87	125	118
500 - "	178	29	27	26	51	45
Holders² by age group						
Legal persons	66	22	8	15	14	7
- 29 years	197	63	39	31	43	21
30 - 39 "	836	267	141	137	166	125
40 - 49 "	1 089	319	231	171	198	170
50 - 59 "	1 052	281	244	181	207	139
60 - 69 "	402	146	112	61	50	33
70 - "	34	25	4	3	-	2
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	7	7	-	-	-	-
100 - 499 "	55	41	6	4	4	-
500 - 999 "	109	75	18	9	4	3
1 000 - 1 499 "	162	98	42	13	7	2
1 500 - 1 999 "	255	108	71	41	29	6
2 000 - 2 999 "	808	230	192	175	151	60
3 000 - 3 999 "	940	259	206	152	202	121
4 000 - "	1 340	305	244	205	281	305

¹ In 1969 holdings with breeding sows over 6 months. In 1979 breeding sows which have farrowed and mated young breeding sows not yet farrowed. In 1989 sows and boars over 6 months for breeding. In 1999 sows which have farrowed and young sows determined for breeding. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

5.13. Number of breeding sows¹ by size of herd, county and various structural classifications

	Breeding sows, total	By number of breeding sows				
		1-9	10-19	20-29	30-49	50-
1969	74 438	43 574	19 847	6 369	3 412	1 236
1979	81 951	22 162	25 572	17 590	11 693	4 934
1989	84 233	9 858	19 473	20 862	18 940	15 100
1999	97 495	4 765	10 914	14 509	25 900	41 407
1999						
County						
Østfold	7 691	325	596	1 400	2 469	2 901
Akershus and Oslo	5 109	318	535	692	1 710	1 854
Hedmark	10 968	333	910	902	2 138	6 685
Oppland	9 797	665	1 231	1 364	2 407	4 130
Buskerud	2 376	66	264	363	379	1 304
Vestfold	7 189	129	386	797	2 321	3 556
Telemark	1 942	94	223	307	435	883
Aust-Agder	605	39	117	70	268	111
Vest-Agder	1 357	80	96	55	371	755
Rogaland	20 201	847	2 477	3 338	4 014	9 525
Hordaland	1 999	387	495	334	330	453
Sogn og Fjordane	1 719	212	507	306	329	365
Møre og Romsdal	2 128	237	474	373	516	528
Sør-Trøndelag	3 958	273	484	723	1 022	1 456
Nord-Trøndelag	15 466	438	1 336	2 427	5 535	5 730
Nordland	3 339	227	518	625	1 092	877
Troms	1 337	81	142	359	461	294
Finnmark	314	14	123	74	103	-
Agricultural area in use						
- 4 decares	394	25	13	88	47	221
5 - 49 "	4 822	429	691	761	1 036	1 905
50 - 99 "	9 369	777	1 414	1 950	2 615	2 613
100 - 199 "	32 048	2 062	4 905	5 282	9 699	10 100
200 - 299 "	24 874	863	2 378	3 679	5 789	12 165
300 - 499 "	18 582	494	1 124	2 106	4 717	10 141
500 - "	7 406	115	389	643	1 997	4 262
Holders² by age group						
Legal persons	2 105	70	122	357	545	1 011
- 29 years	4 592	254	542	730	1 603	1 463
30 - 39 "	22 862	1 073	2 001	3 342	6 443	10 003
40 - 49 "	31 065	1 370	3 235	4 156	7 537	14 767
50 - 59 "	28 497	1 215	3 461	4 388	7 883	11 550
60 - 69 "	8 045	686	1 488	1 470	1 889	2 512
70 - "	329	97	65	66	-	101
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	29	29	-	-	-	-
100 - 499 "	444	128	82	88	146	-
500 - 999 "	1 018	231	239	216	154	178
1 000 - 1 499 "	1 613	343	573	296	253	148
1 500 - 1 999 "	4 004	426	1 019	972	1 075	512
2 000 - 2 999 "	17 447	909	2 754	4 208	5 617	3 959
3 000 - 3 999 "	24 374	1 218	2 849	3 688	7 781	8 838
4 000 - "	48 566	1 481	3 398	5 041	10 874	27 772

¹ In 1969 breeding sows over 6 months. In 1979 breeding sows which have farrowed and mated young breeding sows not yet farrowed. In 1989 sows and boars over 6 months for breeding. In 1999 sows which have farrowed and young sows determined for breeding. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

5.14. Holdings with laying hens, by size of herd, county and various structural classifications

	Holdings with laying hens, total	By number of laying hens				
		1-99	100-999	1 000-1 999	2 000-2 999	3 000-
1969	40 653	34 525	5 635	312	100	81
1979	14 655	11 198	2 474	411	342	230
1989	5 930	3 653	996	592	536	153
1999	4 064	2 712	321	398	370	263
1999						
County						
Østfold	235	113	27	21	34	40
Akershus and Oslo	205	151	12	12	8	22
Hedmark	278	173	10	19	36	40
Oppland	289	220	12	13	29	15
Buskerud	177	144	11	9	6	7
Vestfold	109	62	5	7	14	21
Telemark	172	121	13	12	15	11
Aust-Agder	99	55	12	17	11	4
Vest-Agder	159	108	12	17	17	5
Rogaland	645	255	80	164	100	46
Hordaland	341	246	35	25	23	12
Sogn og Fjordane	236	194	16	13	9	4
Møre og Romsdal	251	200	17	19	12	3
Sør-Trøndelag	226	163	19	16	19	9
Nord-Trøndelag	216	151	20	13	17	15
Nordland	257	216	13	13	9	6
Troms	124	98	6	7	11	2
Finnmark	45	42	1	1	-	1
Agricultural area in use						
- 4 decares	13	5	-	1	3	4
5 - 49 "	982	680	71	87	84	60
50 - 99 "	882	652	57	85	61	27
100 - 199 "	1 260	819	125	136	119	61
200 - 299 "	546	361	40	51	54	40
300 - 499 "	290	166	23	30	33	38
500 - "	91	29	5	8	16	33
Holders¹ by age group						
Legal persons	73	41	10	13	1	8
- 29 years	201	147	16	12	17	9
30 - 39 "	971	708	50	69	84	60
40 - 49 "	1 284	900	82	116	110	76
50 - 59 "	981	578	97	124	104	78
60 - 69 "	476	275	58	60	52	31
70 - "	78	63	8	4	2	1
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	30	28	2	-	-	-
100 - 499 "	326	296	15	8	5	2
500 - 999 "	540	445	28	36	25	6
1 000 - 1 499 "	518	365	38	50	56	9
1 500 - 1 999 "	462	303	35	49	55	20
2 000 - 2 999 "	790	468	67	86	101	68
3 000 - 3 999 "	654	413	69	72	50	50
4 000 - "	744	394	67	97	78	108

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/ft1999_en/.

5.15. Number of laying hens, by size of herd, county and various structural classifications

	Laying hens, total	By number of laying hens				
		1-99	100-999	1 000-1 999	2 000-2 999	3 000-
1969	3 270 423	741 278	1 433 756	415 641	222 170	457 578
1979	3 827 799	246 638	796 430	564 190	752 000	1 468 541
1989	3 441 719	70 122	423 599	896 729	1 111 885	939 384
1999	3 181 174	41 949	152 755	594 523	804 908	1 587 039
1999						
County						
Østfold	378 036	2 084	11 912	31 032	71 686	261 322
Akershus and Oslo	241 441	2 495	3 841	20 206	18 833	196 066
Hedmark	336 254	2 701	4 790	30 019	79 454	219 290
Oppland	161 013	3 339	4 019	21 157	63 355	69 143
Buskerud	75 487	2 343	4 319	13 593	13 608	41 624
Vestfold	161 453	1 428	1 515	10 199	31 554	116 757
Telemark	114 947	1 824	5 506	18 522	32 867	56 228
Aust-Agder	80 407	906	6 246	26 697	23 830	22 728
Vest-Agder	94 819	1 525	6 853	25 314	35 767	25 360
Rogaland	801 768	4 094	47 617	244 389	217 507	288 161
Hordaland	171 476	3 652	18 304	34 009	51 956	63 555
Sogn og Fjordane	74 683	2 614	9 985	20 291	19 473	22 320
Møre og Romsdal	84 964	2 686	6 464	29 009	24 938	21 867
Sør-Trøndelag	122 578	2 837	9 489	20 704	41 592	47 956
Nord-Trøndelag	154 928	2 240	5 849	18 144	35 569	93 126
Nordland	69 119	2 982	3 856	18 760	20 065	23 456
Troms	51 740	1 718	1 740	11 348	22 854	14 080
Finnmark	6 061	481	450	1 130	-	4 000
Agricultural area in use						
- 4 decares	30 410	35	-	1 170	6 000	23 205
5 - 49 "	747 477	10 419	33 473	129 631	184 284	389 670
50 - 99 "	476 827	9 788	26 212	125 838	131 956	183 033
100 - 199 "	892 559	13 002	60 724	201 908	258 811	358 114
200 - 299 "	459 160	5 510	19 500	77 754	115 264	241 132
300 - 499 "	350 945	2 753	9 445	46 206	75 003	217 538
500 - "	223 796	442	3 401	12 016	33 590	174 347
Holders¹ by age group						
Legal persons	110 138	893	5 556	18 658	2 052	82 979
- 29 years	107 828	1 817	7 183	19 860	35 431	43 537
30 - 39 "	672 625	10 525	21 849	102 624	183 853	353 774
40 - 49 "	932 287	13 855	38 738	173 326	242 936	463 432
50 - 59 "	890 878	8 990	51 436	183 789	223 813	422 850
60 - 69 "	444 671	4 643	26 328	90 246	112 623	210 831
70 - "	22 747	1 226	1 665	6 020	4 200	9 636
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	1 076	316	760	-	-	-
100 - 499 "	43 920	4 193	4 575	10 238	10 752	14 162
500 - 999 "	148 309	6 871	12 634	48 949	52 307	27 548
1 000 - 1 499 "	289 216	5 636	18 272	78 131	119 307	67 870
1 500 - 1 999 "	333 821	4 756	12 348	75 543	119 840	121 334
2 000 - 2 999 "	722 765	7 679	30 944	132 855	221 214	330 073
3 000 - 3 999 "	551 271	6 447	36 607	105 802	110 680	291 735
4 000 - "	1 090 796	6 051	36 615	143 005	170 808	734 317

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

5.16. Holdings with various kinds of poultry and number of poultry, by county and various structural classifications

	Holdings with poultry				Number of poultry			
	With pullets	With broilers	With breeding ducks, turkeys or geese	With fattening ducks, turkeys or geese	Pullets	Broilers	Breeding ducks, turkeys and geese	Fattening ducks, turkeys and geese
1969	8 709	278	941	..	1 387 155	593 047	36 785	..
1979	1 347	196	738	..	1 235 641	1 605 286	22 120	..
1989	478	402	566	..	1 207 942	3 228 698	20 061	..
1999	390	424	357	327	1 459 614	4 833 875	24 858	294 281
1999								
County								
Østfold	21	67	39	42	270 748	1 410 761	8 219	109 691
Akershus and Oslo	25	16	23	21	106 835	219 993	4 067	21 554
Hedmark	37	79	25	38	193 313	918 403	2 249	23 152
Oppland	25	12	30	18	577	62 865	352	12 605
Buskerud	18	16	17	18	6 244	132 312	146	8 736
Vestfold	14	30	10	21	12 320	299 735	2 601	76 522
Telemark	19	8	10	11	127 349	28 140	1 876	2 206
Aust-Agder	6	4	9	6	81	16 614	119	98
Vest-Agder	12	8	11	5	17 442	39 935	84	68
Rogaland	39	55	24	16	532 436	585 298	204	9 053
Hordaland	35	21	33	28	21 613	171 024	251	738
Sogn og Fjordane	19	7	15	17	200	13 064	107	138
Møre og Romsdal	33	9	28	21	7 634	102 058	313	309
Sør-Trøndelag	15	37	21	19	1 547	405 288	3 633	20 700
Nord-Trøndelag	18	38	14	15	104 724	428 256	118	8 272
Nordland	35	9	33	18	39 499	80	328	329
Troms	13	5	11	9	15 787	28	137	77
Finnmark	6	3	4	4	1 265	21	54	33
Agricultural area in use								
- 4 decares	2	10	1	3	16 400	648 980	3 400	6 715
5 - 49 "	122	86	111	73	675 461	669 866	2 832	20 581
50 - 99 "	81	49	85	80	87 522	553 181	746	23 821
100 - 199 "	101	98	95	85	220 787	784 049	5 388	64 752
200 - 299 "	45	67	42	44	48 974	681 767	4 848	94 700
300 - 499 "	28	70	16	31	312 932	880 950	3 676	51 447
500 - "	11	44	7	11	97 538	615 082	3 968	32 265
Holders¹ by age group								
Legal persons	14	7	18	15	317 633	550 028	3 586	6 851
- 29 years	16	18	29	18	449	152 159	263	13 672
30 - 39 "	109	108	89	74	293 672	1 113 059	4 929	55 806
40 - 49 "	134	147	106	116	468 011	1 434 151	7 471	95 776
50 - 59 "	86	102	85	73	301 190	1 169 406	6 277	88 364
60 - 69 "	24	37	26	25	78 463	319 177	2 276	28 740
70 - "	7	5	4	6	196	95 895	56	5 072
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	5	2	4	2	43	11	24	25
100 - 499 "	33	24	40	34	498	84 833	2 309	4 950
500 - 999 "	67	52	71	45	9 675	517 665	660	17 767
1 000 - 1 499 "	55	50	56	48	29 010	429 792	493	29 221
1 500 - 1 999 "	47	43	49	41	22 990	406 714	2 533	28 836
2 000 - 2 999 "	63	94	58	60	93 720	1 612 670	4 970	46 625
3 000 - 3 999 "	48	74	38	39	94 095	804 792	315	65 968
4 000 - "	72	85	41	58	1 209 583	977 398	13 554	100 889

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

6. Farm buildings and facilities/equipment in the buildings

All buildings used in the operation or fit for use as farm buildings without great costs were considered farm buildings. A "stabbur" (storehouse) was to be considered farm building if it was mainly used as storage in relation to the farming. Farmhouses were not to be considered as farm buildings. Dwellings for the previous occupier, housing for employees, forest cabins, accommodation at mountain pastures, warehouses, rental cabins, greenhouses, sheds for fur-bearing animal, saw mills, etc. were not to be considered as farm buildings either.

6.1. Farm buildings

At respondent holdings for the 1999 Agricultural Census, there were 131 300 farm buildings in usable condition. On average there were 1.9 farm buildings per holding. Aggregate base area was 28.9 million m². 10 100 farm buildings were either not used at all or the greater part of the buildings concerned was not in use. The base area of these buildings was 1.4 million m², or barely 5 per cent of the total base area of all farm buildings. About 52 per cent of the buildings had a base area of less than 200 m², while 7 per cent were 500 m² or more.

The base area of farm buildings built before 1950 constituted 42 per cent of aggregate base area, while farm buildings built in 1990 or later constituted 8 per cent. About 21 500 or 16 per cent of all farm buildings were either rebuilt or enlarged between 1990 and 1999. The base area of these buildings was 6,3 million m² or 22 per cent of aggregate base area in 1999.

Figure 6.1. Number of farm buildings, by type and size. The whole country. 1999

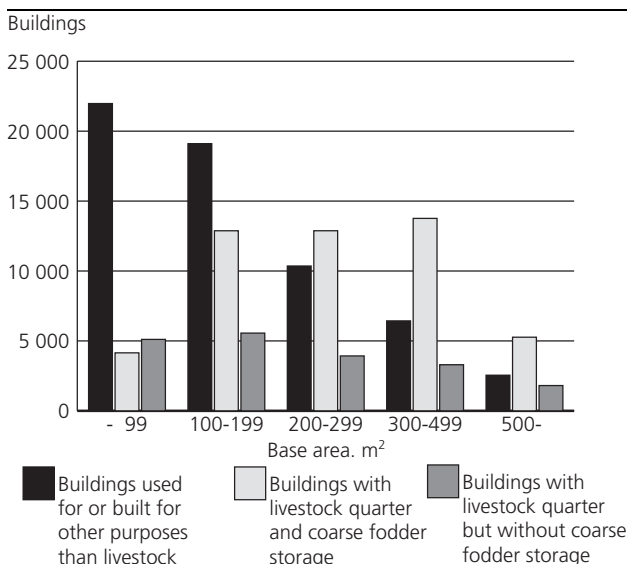
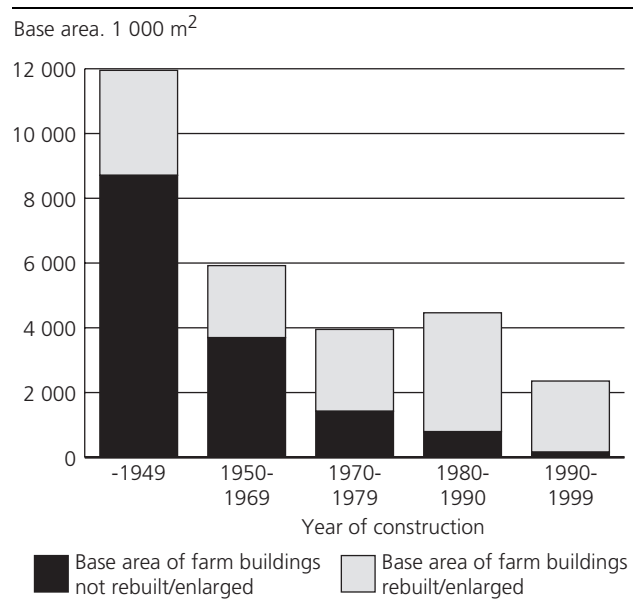


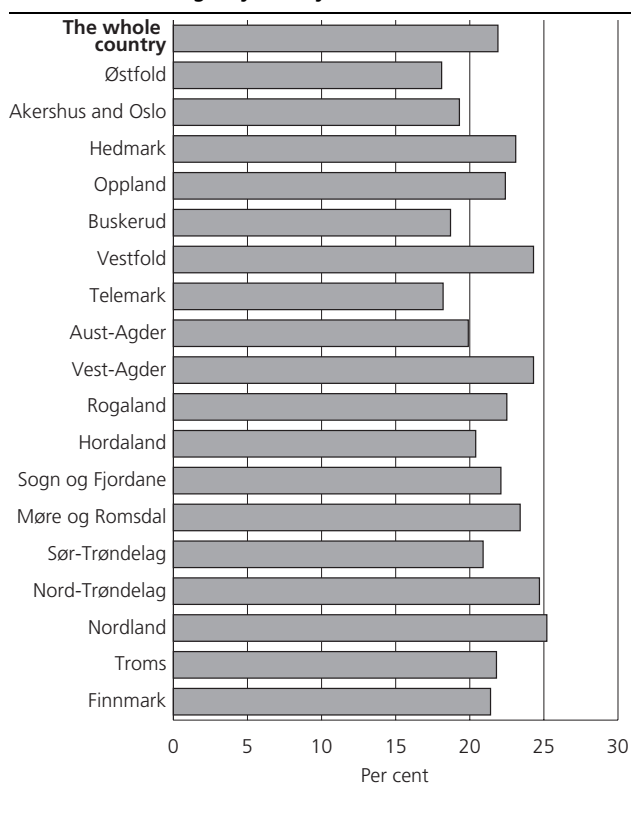
Figure 6.2. Base area of farm buildings, by year of construction and whether the buildings have been rebuilt or enlarged. The whole country. 1999



In 1999 farm buildings used or built for livestock had a total base area of 18.3 million m², while buildings used or built for other purposes constituted 10,3 million m². Of farm buildings for livestock, three-quarters of base area represented buildings with storage for coarse forage. Since 1989, the base area of farm buildings with room for livestock and coarse forage storerooms has been reduced by 36 per cent. The base area of farm buildings with rooms for livestock, but without coarse forage storerooms was more than doubled in the same period. The base area of other farm buildings increased by 31 per cent.

The relatively great changes for the two categories of farm buildings for livestock might be because many of the traditional farm buildings with cowsheds and barns have been obsolete. Another reason might be that coarse forage storages, like silos, are no longer fit for use. Other buildings may have been rebuilt. Yet another reason might be that the respondents did not include the coarse forage storehouse if it was no longer in use. The proportion of holdings with livestock fed on coarse forage, but without coarse forage storerooms was about 6 per cent in 1999. This could indicate that some holdings store all coarse forage in round bales, for example.

Figure 6.3. Base area of farm buildings rebuilt/enlarged in 1990-1999 as per cent of base area for all farm buildings, by county



6.2. Machinery and equipment in the farm buildings

About 14 400 holdings had a drying plant for grain. Of these, almost 2 000, or 14 per cent had both cold-air dryer and warm-air dryer. From 1989 till 1999, the number of holdings with grain and oil-seeds and grain dryers increased from 47 to 66 per cent. The number of holdings with a drying plant for hay increased in the last ten-year period by 3 200, and in 1999 there were 10 600 holdings with such a dryer.

In the 1999 census, for the first time, questions were asked about emergency power generator and fire alarm system. 13 per cent of all holdings had access to an emergency power generator and 6 per cent of holdings with livestock had an approved fire alarm system in at least one of the farm buildings with livestock.

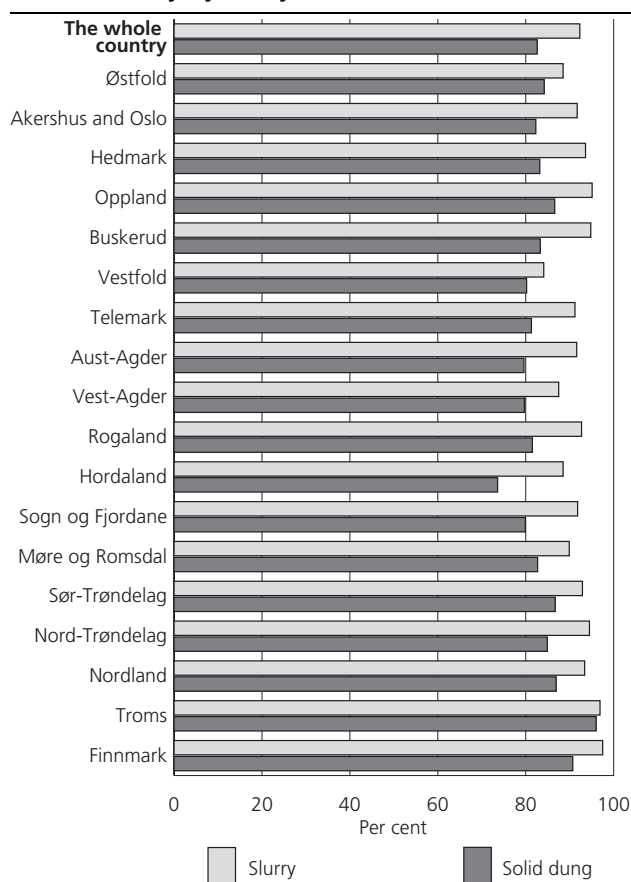
In 1999, 27 500 holdings had cowsheds in use or fit for dairy production. Of these, 4 800 holdings did not have dairy cows. Of the 22 700 holdings with dairy cows, 21 300 had stanchion barn and 1 600, loose housing barn. Some few holdings had both types of barns. In 1999, holdings rearing dairy cows could accommodate a total of 423 400 cows. Of these, 91 per cent were stanchion places and 9 per cent were in loose housing barns. In comparison, the holdings had 313 000 dairy cows as at 31 July 1999,

meaning they were utilising 74 per cent of capacity. The capacity at holdings without dairy cows was 66 000 places.

Of 51 100 holdings with livestock, 60 per cent had storage for slurry, 41 per cent had storage for solid dung and 19 per cent used built-up manure or deep litter. About 19 per cent of holdings had more than one type of storage for fertiliser.

According to the rules and regulations on animal manure, as from 1 January 2000, storage capacity should be minimum 8 months. Of the 30 600 holdings with storage for slurry, 92 per cent had storage capacity of 8 months or longer. For the 20 900 holdings with storage for solid dung the corresponding proportion was 83 per cent.

Figure 6.4. Proportion of holdings with storage capacity of at least 8 months for slurry and solid dung respectively, by county. 1999. Per cent



6.1. Holdings with/without farm building, holdings with different types of farm buildings and base area of farm buildings, by county and various structural classifications

	Holdings with farm buildings			Holdings with different types of buildings			Base area of farm buildings	
	Holdings without any farm building(s) ¹	Total	Of which with farm buildings where all or most of the buildings are unused	Livestock quarter and coarse fodder storage	Livestock quarter, but without coarse fodder storage	Other farm buildings	Total	Of which where all or most of the buildings are unused
							1 000 m ²	
1979.....	6 190	119 112	..	110 506	15 479	46 204	32 037	..
1989.....	4 456	94 926	..	80 596	12 113	45 657	31 803	..
1999.....	1 164	69 576	8 502	46 457	16 216	38 269	28 905	1 362
1999								
County								
Østfold.....	59	3 545	610	1 035	962	3 077	2 166	127
Akershus and Oslo.....	90	3 394	654	1 138	688	2 756	1 947	140
Hedmark.....	150	5 824	864	2 669	1 468	4 140	2 921	155
Oppland.....	111	6 943	1 003	4 904	1 845	3 807	2 987	166
Buskerud.....	55	3 765	585	1 890	750	2 568	1 588	92
Vestfold.....	41	2 422	299	600	579	2 040	1 258	50
Telemark.....	48	2 568	381	1 406	423	1 551	867	52
Aust-Agder.....	23	1 235	165	884	199	619	410	21
Vest-Agder.....	21	1 973	196	1 605	330	849	578	23
Rogaland.....	77	6 112	621	5 071	2 350	2 515	2 698	91
Hordaland.....	86	5 509	441	4 822	958	2 029	1 385	46
Sogn og Fjordane.....	56	5 239	519	4 652	747	1 952	1 542	60
Møre og Romsdal.....	64	4 954	420	4 280	846	2 066	1 737	56
Sør-Trøndelag.....	79	4 726	608	3 375	1 081	2 687	2 153	101
Nord-Trøndelag.....	79	4 947	641	2 957	1 542	3 042	2 562	121
Nordland.....	59	3 774	308	3 025	937	1 659	1 334	39
Troms.....	34	2 020	137	1 678	376	681	587	16
Finnmark.....	32	626	50	466	135	231	185	5
Agricultural area in use								
- 4 decares ²	189	540	24	359	108	178	299	5
5 - 49 ".....	480	13 308	1 799	7 956	2 147	6 373	2 692	204
50 - 99 ".....	206	16 514	2 111	11 247	2 992	8 147	4 689	289
100 - 199 ".....	182	22 104	2 467	15 779	5 496	12 156	9 311	391
200 - 299 ".....	70	10 297	1 151	7 264	3 107	6 354	5 910	219
300 - 499 ".....	34	5 239	668	3 121	1 796	3 751	4 064	164
500 - ".....	3	1 574	282	731	570	1 310	1 939	89
Holders³ by age group								
Legal persons.....	83	698	46	508	159	280	623	13
- 29 years.....	89	3 567	369	2 456	880	1 781	1 423	56
30 - 39 ".....	248	14 019	1 691	9 384	3 614	8 077	6 224	268
40 - 49 ".....	287	20 160	2 528	13 378	4 923	11 439	8 713	423
50 - 59 ".....	266	19 010	2 301	12 562	4 285	10 637	7 840	374
60 - 69 ".....	147	9 834	1 188	6 696	1 933	4 992	3 478	175
70 - ".....	44	2 288	379	1 473	422	1 063	605	53
Total employment in agriculture and horticulture on the holding								
- 99 man-hours.....	190	1 594	403	413	224	1 157	335	55
100 - 499 ".....	417	10 968	2 457	3 900	1 606	7 424	3 027	369
500 - 999 ".....	149	10 437	1 603	6 020	1 774	5 660	3 170	261
1 000 - 1 499 ".....	98	7 949	946	5 529	1 503	3 913	2 626	159
1 500 - 1 999 ".....	57	6 124	586	4 509	1 330	2 937	2 259	103
2 000 - 2 999 ".....	64	12 058	964	9 548	3 229	5 773	5 234	155
3 000 - 3 999 ".....	43	10 594	719	8 787	3 065	5 513	5 445	116
4 000 - ".....	146	9 852	824	7 751	3 485	5 892	6 808	145

¹ The holdings may have greenhouses or sheds for fur bearing animals. ² Comprise mainly joint operations with milk production and holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

6.2. Holdings with farm buildings, by what purpose(s) buildings are used for or built for¹, county and various structural classifications. 1999

	Cattle	Sheep	Goat	Pork	Poultry	Coarse fodder storage	Implements etc.	Storage for crop products	Other agricultural and horticultural purposes	Other purposes than agriculture and horticulture
Total	36 580	25 329	1 530	9 355	5 046	52 690	54 554	20 504	11 308	6 927
County										
Østfold	989	253	20	735	491	1 398	3 386	2 853	993	654
Akershus and Oslo	1 032	333	18	668	273	1 556	3 152	2 467	938	598
Hedmark	2 276	1 298	97	914	453	3 352	5 044	2 517	1 157	750
Oppland	3 944	2 320	161	1 084	340	5 744	5 233	1 835	1 089	604
Buskerud	1 435	1 058	52	319	262	2 299	3 221	1 734	838	480
Vestfold	609	164	14	449	214	830	2 284	1 780	691	429
Telemark	929	791	58	299	259	1 800	2 193	909	499	324
Aust-Agder	587	504	12	151	138	999	1 001	210	207	167
Vest-Agder	1 163	936	23	131	161	1 742	1 659	170	241	160
Rogaland	4 376	3 421	77	1 643	769	5 354	4 757	774	652	371
Hordaland	2 954	3 504	150	482	365	5 082	3 806	500	845	418
Sogn og Fjordane	3 107	3 225	223	308	206	4 909	3 763	432	683	366
Møre og Romsdal	3 526	2 053	133	301	241	4 584	3 620	410	491	332
Sør-Trøndelag	3 191	1 210	36	504	290	3 918	3 782	1 034	660	460
Nord-Trøndelag	3 084	931	55	1 026	283	3 366	3 971	2 376	738	495
Nordland	2 231	1 817	119	229	181	3 394	2 391	341	323	194
Troms	834	1 217	274	85	83	1 798	1 027	139	204	89
Finnmark	313	294	8	27	37	565	264	23	59	36
Agricultural area in use										
- 4 decares ²	390	43	4	39	25	380	243	96	79	22
5 - 49 "	3 172	6 903	296	1 143	1 311	9 502	9 410	2 035	2 305	1 465
50 - 99 "	6 921	7 851	543	1 727	1 106	12 724	12 505	3 609	2 457	1 634
100 - 199 "	14 329	6 967	514	3 204	1 397	17 467	17 750	6 331	3 294	1 958
200 - 299 "	7 629	2 370	111	1 708	633	8 085	8 577	3 905	1 619	1 003
300 - 499 "	3 366	1 013	52	1 132	396	3 623	4 589	3 169	1 083	607
500 - "	773	182	10	402	178	909	1 480	1 359	471	238
Holders³ by age group										
Legal persons	516	141	33	114	79	564	383	187	148	73
- 29 years	2 058	1 308	80	512	207	2 775	2 687	859	493	290
30 - 39 "	7 879	4 772	293	1 999	1 040	10 786	11 182	3 956	2 449	1 521
40 - 49 "	10 667	7 123	466	2 716	1 522	15 240	16 032	6 174	3 478	2 129
50 - 59 "	9 579	6 903	398	2 524	1 345	14 239	15 021	5 998	3 088	1 853
60 - 69 "	4 836	4 018	210	1 215	675	7 436	7 593	2 756	1 358	875
70 - "	1 045	1 064	50	275	178	1 650	1 656	574	294	186
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	344	252	16	160	100	667	1 296	325	298	279
100 - 499 "	2 775	2 620	100	1 135	736	5 569	9 168	4 335	1 992	1 553
500 - 999 "	2 999	4 801	130	1 017	813	7 069	8 055	3 641	1 842	1 221
1 000 - 1 499 "	2 805	4 377	121	793	614	6 152	6 063	2 253	1 313	829
1 500 - 1 999 "	2 699	3 204	130	733	523	4 954	4 629	1 595	994	566
2 000 - 2 999 "	7 987	4 650	362	1 715	866	10 305	9 086	2 810	1 703	918
3 000 - 3 999 "	8 803	2 950	323	1 698	640	9 510	8 273	2 439	1 353	733
4 000 - "	8 168	2 475	348	2 104	754	8 464	7 984	3 106	1 813	828

¹ Each holding may have more than one type of farm building and some of the buildings may be used for or built for multiple purposes. ² Comprise mainly joint operations with milk production and holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

6.3. Number of farm buildings, by type of building, size of building, county and various structural classifications. 1999

	Farm buildings		Farm buildings by type ¹			Farm buildings by base ¹ area in m ²				
	Total	Of which where all or most of the buildings unused	Buildings with livestock quarter and coarse fodder storage	Buildings with livestock quarter, but without coarse fodder storage	Other farm buildings	-99	100-199	200-299	300-499	500-
Total	131 318	10 136	48 930	19 699	60 416	31 231	37 538	27 162	23 491	9 623
County										
Østfold	8 312	785	1 072	1 193	5 813	2 080	1 742	1 491	1 623	1 142
Akershus and Oslo	6 941	799	1 190	795	4 819	1 536	1 478	1 206	1 454	1 130
Hedmark	11 992	1 103	2 819	1 748	7 049	2 598	3 185	2 461	2 152	1 220
Oppland	13 986	1 321	5 147	2 220	6 224	3 579	3 810	2 783	2 397	1 022
Buskerud	7 006	705	1 996	849	4 041	1 673	1 750	1 448	1 456	559
Vestfold	4 901	339	634	715	3 501	1 002	1 048	1 056	1 243	501
Telemark	4 322	448	1 478	495	2 261	1 038	1 185	1 073	755	183
Aust-Agder	2 146	184	917	239	947	512	665	525	342	59
Vest-Agder	3 351	214	1 723	390	1 189	883	1 262	726	366	65
Rogaland	12 285	708	5 499	3 203	3 405	2 599	3 696	2 767	2 268	777
Hordaland	9 217	508	5 078	1 112	2 923	3 323	3 242	1 579	853	116
Sogn og Fjordane	8 607	585	4 897	878	2 740	2 470	2 829	1 766	1 232	218
Møre og Romsdal	8 445	464	4 484	996	2 891	1 874	2 729	1 902	1 481	385
Sør-Trøndelag	9 003	713	3 504	1 245	4 122	1 591	2 495	2 077	1 984	724
Nord-Trøndelag	9 839	714	3 059	1 865	4 794	1 512	2 665	2 289	2 179	1 073
Nordland	6 854	344	3 207	1 160	2 440	1 821	2 342	1 284	1 047	313
Troms	3 143	148	1 736	436	947	856	1 123	549	496	95
Finmark	968	54	490	160	310	284	292	180	163	41
Agricultural area in use										
- 4 decares ²	902	24	469	144	277	90	197	204	244	155
5 - 49 "	19 649	2 022	8 117	2 435	8 895	7 736	7 544	2 868	1 035	264
50 - 99 "	27 462	2 451	11 677	3 451	12 044	7 839	9 256	6 399	3 215	463
100 - 199 "	42 683	2 946	16 633	6 639	18 820	9 260	11 531	9 718	9 350	2 233
200 - 299 "	22 807	1 427	7 819	3 937	10 629	4 027	5 508	4 673	5 595	2 582
300 - 499 "	12 969	871	3 394	2 358	6 841	1 816	2 703	2 478	3 023	2 573
500 - "	4 846	395	821	735	2 910	463	799	822	1 029	1 353
Holders³ by age group										
Legal persons	1 547	61	638	227	537	121	252	291	392	346
- 29 years	6 349	432	2 606	1 058	2 640	1 397	1 850	1 384	1 220	453
30 - 39 "	27 647	2 001	9 882	4 469	12 844	6 262	7 802	5 774	5 209	2 148
40 - 49 "	39 171	3 040	14 102	6 001	18 284	9 102	10 999	8 154	7 078	3 054
50 - 59 "	35 796	2 793	13 173	5 200	16 822	8 516	10 200	7 400	6 503	2 576
60 - 69 "	17 211	1 364	7 005	2 267	7 723	4 608	5 264	3 513	2 668	942
70 - "	3 597	445	1 524	477	1 566	1 225	1 171	646	421	104
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	2 174	450	421	231	1 513	718	840	417	146	44
100 - 499 "	16 937	2 824	3 977	1 749	11 092	5 054	5 321	3 563	2 343	537
500 - 999 "	17 302	1 884	6 163	1 944	9 038	5 407	5 478	3 109	2 344	807
1 000 - 1 499 "	13 882	1 126	5 738	1 676	6 297	4 020	4 539	2 649	1 769	734
1 500 - 1 999 "	11 192	700	4 711	1 571	4 748	2 894	3 491	2 352	1 650	643
2 000 - 2 999 "	23 493	1 174	10 087	3 915	9 097	5 083	6 557	5 384	4 512	1 563
3 000 - 3 999 "	22 138	925	9 354	3 836	8 565	4 153	5 641	4 786	5 175	2 000
4 000 - "	24 200	1 053	8 479	4 777	10 066	3 902	5 671	4 902	5 552	3 295

¹ Information on base area and type were not reported for 2 273 farm buildings. ² Comprise mainly joint operations with milk production and holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

6.4. Base area of farm buildings¹ with livestock quarter and coarse fodder storage, by year of construction, county and various structural classifications. 1 000 m²

	Base area, total	By year of construction				
		-1949	1950-1969	1970-1979	1980-1989	1990-1999
1979	24 588,0	16 745,0	5 503,0	2 340,0	.	.
1989	21 707,0	12 693,0	5 015,0	2 196,0	1 803,0	.
1999	13 827,9	6 053,5	3 581,7	1 934,6	1 743,4	514,8
1999						
County						
Østfold	509,9	357,3	78,4	27,8	28,5	17,9
Akershus and Oslo	536,4	377,6	92,8	25,2	21,7	19,1
Hedmark	988,6	469,4	271,9	121,5	96,6	29,2
Oppland	1 582,9	689,5	468,7	213,3	171,7	39,8
Buskerud	611,6	345,3	140,1	51,8	57,8	16,6
Vestfold	253,5	153,0	41,9	18,7	27,6	12,2
Telemark	377,0	230,7	67,7	29,6	34,4	14,6
Aust-Agder	221,7	113,8	41,8	26,9	29,3	10,0
Vest-Agder	357,6	157,7	79,6	49,5	50,9	19,9
Rogaland	1 537,6	614,8	473,3	222,6	166,1	60,8
Hordaland	968,8	454,9	176,6	135,5	156,2	45,7
Sogn og Fjordane	1 117,9	464,1	222,2	179,0	201,4	51,1
Møre og Romsdal	1 165,5	498,0	296,8	177,7	156,8	36,2
Sør-Trøndelag	1 154,2	464,2	333,0	177,6	145,0	34,5
Nord-Trøndelag	1 125,7	410,7	369,6	187,5	119,1	38,7
Nordland	809,4	160,5	263,7	174,2	169,4	41,7
Troms	391,3	75,0	128,3	80,5	87,9	19,6
Finnmark	118,3	16,9	35,3	35,9	23,2	7,1
Agricultural area in use						
- 4 decares ²	186,1	48,8	41,7	60,1	27,7	7,8
5 - 49 "	1 190,3	754,7	250,2	65,7	85,1	34,6
50 - 99 "	2 408,1	1 215,2	594,2	236,9	264,9	96,9
100 - 199 "	4 899,6	1 861,1	1 336,8	750,1	762,2	189,4
200 - 299 "	2 939,6	1 077,0	856,0	523,6	398,3	84,6
300 - 499 "	1 623,5	741,2	413,6	242,5	158,5	67,8
500 - "	580,8	355,5	89,2	55,8	46,6	33,6
With/without livestock						
Without any livestock	1 082,5	694,9	262,5	71,6	44,4	9,1
With livestock	12 745,5	5 358,6	3 319,2	1 863,0	1 698,9	505,7
Holders³ by age group						
Legal persons	304,3	91,8	69,3	71,6	48,6	23,0
- 29 years	734,6	279,8	206,4	123,2	97,0	28,2
30 - 39 "	2 943,6	1 237,7	820,8	424,6	319,3	141,2
40 - 49 "	4 082,6	1 741,7	1 105,2	505,1	561,6	169,0
50 - 59 "	3 701,7	1 639,3	895,2	545,4	510,6	111,2
60 - 69 "	1 753,0	870,9	417,1	239,9	186,0	39,1
70 - "	308,1	192,2	67,7	24,8	20,2	3,1
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	78,9	42,6	24,8	5,2	5,9	0,6
100 - 499 "	798,7	488,9	200,1	53,5	41,0	15,1
500 - 999 "	1 176,7	732,2	253,8	69,9	84,2	36,6
1 000 - 1 499 "	1 206,8	677,2	267,2	88,9	122,0	51,5
1 500 - 1 999 "	1 105,8	546,3	263,3	103,8	139,8	52,6
2 000 - 2 999 "	2 844,9	1 152,1	741,0	401,0	439,3	111,6
3 000 - 3 999 "	3 183,7	1 141,1	859,1	577,7	498,5	107,4
4 000 - "	3 432,3	1 273,1	972,3	634,6	412,7	139,6

¹ Comprise only farm buildings with information about what they are used for or built for. ² Comprise mainly joint operations with milk production and holdings in horticulture.

³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

6.5. Base area of farm buildings¹ with livestock quarter and coarse fodder storage, by year of construction, year of rebuilding/enlarging, county and various structural classifications. 1999. 1 000 m²

	Built before 1970					Built 1970-1999			
	Not rebuilt/enlarged	Last time rebuilt/enlarged				Not rebuilt/enlarged	Last time rebuilt/enlarged		
		-1969	1970-1979	1980-1989	1990-1999		1970-1979	1980-1989	1990-1999
Total	1 971,3	868,2	1 432,6	2 412,1	2 951,1	2 900,4	46,0	343,7	902,6
County									
Østfold	107,2	56,6	63,8	89,6	118,5	54,2	0,7	3,1	16,0
Akershus and Oslo	109,6	84,4	49,7	89,7	137,0	45,0	0,8	6,1	14,1
Hedmark	138,5	78,5	107,8	166,1	250,4	166,6	4,0	21,4	55,4
Oppland	235,9	92,6	170,0	303,8	355,8	282,0	7,2	40,4	95,2
Buskerud	132,4	53,8	58,2	120,0	121,1	93,4	1,0	10,8	21,0
Vestfold	45,1	23,5	20,2	40,9	65,1	35,9	1,0	4,4	17,2
Telemark	91,4	36,0	28,1	62,7	80,2	57,4	0,8	6,0	14,3
Aust-Agder	44,7	13,1	18,2	44,0	35,6	46,9	0,9	6,1	12,1
Vest-Agder	62,7	17,0	29,5	46,9	81,1	83,4	0,7	7,7	28,4
Rogaland	208,5	108,6	192,8	243,2	335,0	305,4	6,9	42,7	94,5
Hordaland	135,7	62,7	83,5	172,8	176,8	258,3	1,6	26,4	51,1
Sogn og Fjordane	133,4	54,0	93,5	195,6	209,9	324,1	2,5	30,2	74,7
Møre og Romsdal	124,2	61,6	132,8	228,7	247,4	257,8	2,8	27,3	82,7
Sør-Trøndelag	149,9	52,3	134,5	222,0	238,6	253,4	5,5	22,0	76,2
Nord-Trøndelag	123,4	41,0	141,1	199,8	275,0	214,5	3,4	26,1	101,4
Nordland	75,1	18,7	68,6	114,0	147,8	251,8	4,5	35,2	93,8
Troms	42,0	11,5	30,3	57,0	62,5	130,0	1,6	19,9	36,6
Finnmark	11,6	2,2	9,9	15,3	13,3	40,2	0,3	7,7	17,9
Agricultural area in use									
- 4 decares ²	7,4	2,8	14,4	23,3	42,6	49,2	0,2	7,5	38,7
5 - 49 "	391,7	141,9	96,0	191,3	184,0	147,7	2,6	16,7	18,5
50 - 99 "	528,3	197,5	215,6	427,0	441,1	468,7	5,0	41,2	83,8
100 - 199 "	575,3	241,5	519,1	891,1	970,8	1 217,2	21,4	140,6	322,5
200 - 299 "	257,2	142,0	350,0	523,0	660,9	653,6	12,6	83,7	256,6
300 - 499 "	160,4	98,3	179,6	263,0	453,5	274,2	3,0	43,3	148,3
500 - "	51,0	44,4	57,8	93,4	198,2	89,8	1,2	10,7	34,4
With/without livestock									
Without any livestock	386,6	190,1	117,3	157,7	105,6	91,9	2,9	14,5	15,7
With livestock	1 584,7	678,1	1 315,3	2 254,4	2 845,5	2 808,5	43,1	329,1	886,9
Holders³ by age group									
Legal persons	19,8	7,7	19,5	39,3	74,9	89,5	0,2	10,2	43,3
- 29 years	104,9	36,3	68,3	111,9	164,7	167,5	3,1	17,7	60,1
30 - 39 "	348,1	143,1	303,8	446,6	817,0	575,4	10,3	62,6	236,8
40 - 49 "	516,1	223,1	343,8	759,4	1 004,5	807,6	10,6	115,1	302,5
50 - 59 "	524,1	238,1	419,8	709,4	643,1	851,7	15,4	99,8	200,3
60 - 69 "	344,7	167,6	246,1	307,3	222,3	366,7	6,0	34,7	57,6
70 - "	113,5	52,3	31,4	38,1	24,5	42,0	0,5	3,5	2,0
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	34,0	9,9	6,4	10,9	6,1	8,5	-	1,0	2,1
100 - 499 "	300,9	115,7	70,5	110,5	91,4	84,9	1,5	10,7	12,5
500 - 999 "	338,4	142,0	110,5	208,9	186,2	148,6	2,2	16,1	23,8
1 000 - 1 499 "	264,7	114,7	107,0	210,4	247,6	194,8	3,5	25,0	39,1
1 500 - 1 999 "	212,9	91,9	99,3	183,1	222,3	221,6	1,3	22,6	50,7
2 000 - 2 999 "	348,7	153,5	289,2	535,7	565,9	714,5	10,8	67,6	159,0
3 000 - 3 999 "	250,2	122,3	358,7	570,7	698,2	798,9	12,8	100,7	271,2
4 000 - "	221,4	118,1	390,9	581,8	933,3	728,7	13,9	100,0	344,3

¹ Comprise only farm buildings with information about what they are used for or built for. ² Comprise mainly joint operations with milk production and holdings in horticulture.

³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

6.6. Base area of farm buildings¹ with livestock quarter but without any coarse fodder storage, by year of construction, county and various structural classifications. 1 000 m²

	Base area, total	By year of construction				
		-1949	1950-1969	1970-1979	1980-1989	1990-1999
1979	1 911,0	1 716,0	90,0	105,0	.	.
1989	2 114,0	936,0	448,0	413,0	316,0	.
1999	4 489,9	1 514,6	983,0	794,4	625,3	572,6
1999						
County						
Østfold	415,7	170,9	74,8	87,1	44,1	38,9
Akershus and Oslo	256,7	121,4	46,0	37,1	25,7	26,6
Hedmark	491,6	193,7	92,7	79,5	77,4	48,3
Oppland	382,4	150,0	83,3	59,8	47,9	41,4
Buskerud	181,9	83,1	36,4	22,2	19,0	21,1
Vestfold	238,1	95,3	37,5	38,0	28,7	38,6
Telemark	107,9	48,4	13,6	15,1	19,0	11,8
Aust-Agder	51,7	20,1	8,0	8,7	9,7	5,2
Vest-Agder	71,3	16,3	13,7	15,4	13,7	12,3
Rogaland	635,3	139,1	155,2	126,9	105,1	109,0
Hordaland	146,7	49,2	29,3	25,4	27,0	15,8
Sogn og Fjordane	129,8	43,2	21,3	25,4	24,3	15,7
Møre og Romsdal	191,0	53,9	47,4	34,3	29,0	26,4
Sør-Trøndelag	305,6	104,5	64,1	57,5	46,9	32,6
Nord-Trøndelag	574,6	175,4	166,9	99,2	51,5	81,5
Nordland	212,5	35,2	63,4	44,1	36,4	33,3
Troms	72,8	12,3	24,1	10,8	14,5	11,0
Finnmark	24,3	2,5	5,1	8,2	5,4	3,2
Agricultural area in use						
- 4 decares ²	51,2	9,0	13,0	18,2	5,1	6,0
5 - 49 "	389,7	136,3	100,3	64,7	55,8	32,6
50 - 99 "	582,0	218,0	143,6	82,0	82,7	55,8
100 - 199 "	1 366,9	434,0	306,2	244,5	213,7	168,5
200 - 299 "	966,4	318,0	209,7	188,7	131,2	118,7
300 - 499 "	772,3	260,0	152,0	136,6	88,4	135,3
500 - "	361,3	139,3	58,2	59,7	48,4	55,7
With/without livestock						
Without any livestock	761,1	440,5	182,8	76,1	41,7	19,9
With livestock	3 728,7	1 074,1	800,1	718,3	583,6	552,7
Holders³ by age group						
Legal persons	98,2	17,0	26,3	29,6	15,4	9,9
- 29 years	239,6	74,3	55,2	42,2	29,2	38,6
30 - 39 "	1 046,7	324,7	240,6	187,5	131,4	162,6
40 - 49 "	1 375,9	450,8	302,6	218,5	201,4	202,6
50 - 59 "	1 178,5	427,5	234,5	213,2	181,4	122,0
60 - 69 "	475,9	184,6	105,0	92,1	60,5	33,7
70 - "	75,1	35,8	18,8	11,4	6,0	3,1
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	35,2	17,8	10,5	3,6	2,7	0,6
100 - 499 "	336,8	182,9	86,4	33,1	23,2	11,3
500 - 999 "	371,9	195,2	84,1	38,3	33,9	20,5
1 000 - 1 499 "	329,0	143,0	71,7	37,7	39,9	36,6
1 500 - 1 999 "	320,0	125,5	67,0	51,0	42,7	33,9
2 000 - 2 999 "	888,2	291,7	177,1	166,9	137,7	114,8
3 000 - 3 999 "	881,2	236,1	203,7	177,4	147,1	116,9
4 000 - "	1 327,6	322,5	282,5	286,5	198,1	237,9

¹ Comprise only farm buildings with information about what they are used for or built for. ² Comprise mainly joint operations with milk production and holdings in horticulture.

³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

6.7. Base area of farm buildings¹ with livestock quarter but without any coarse fodder storage, by year of construction, year of rebuilding/enlarging, county and various structural classifications. 1999. 1 000 m²

	Built before 1970					Built 1970-1999			
	Not rebuilt/ enlarged	Last time rebuilt/enlarged				Not rebuilt/ enlarged	Last time rebuilt/enlarged		
		-1969	1970-1979	1980-1989	1990-1999		1970-1979	1980-1989	1990-1999
Total	775,6	233,3	322,2	480,2	686,3	1 454,2	18,4	98,5	421,3
County									
Østfold	79,7	27,0	29,1	47,5	62,6	126,6	0,6	11,8	30,9
Akershus and Oslo	55,4	19,6	23,8	29,7	38,8	65,5	1,4	4,8	17,6
Hedmark	74,0	28,5	25,8	57,5	100,5	130,8	1,2	12,5	60,8
Oppland	75,0	21,2	26,5	50,7	59,9	115,3	1,5	7,1	25,1
Buskerud	51,1	12,5	12,8	21,9	21,2	44,5	0,5	1,1	16,2
Vestfold	36,0	10,8	19,8	21,3	44,8	68,3	3,3	3,4	30,4
Telemark	24,4	10,0	5,8	9,5	12,3	34,0	-	2,7	9,3
Aust-Agder	7,5	2,4	4,0	5,6	8,7	14,5	-	1,6	7,4
Vest-Agder	10,5	1,9	2,9	4,2	10,4	32,5	0,5	2,3	6,1
Rogaland	111,5	25,9	35,9	48,9	72,1	262,2	2,6	13,4	62,8
Hordaland	29,5	7,3	9,2	14,9	17,7	53,0	0,6	4,4	10,2
Sogn og Fjordane	22,0	7,5	5,7	13,4	16,0	50,3	0,1	3,3	11,5
Møre og Romsdal	31,8	8,8	15,8	21,1	23,8	69,2	0,6	5,7	14,2
Sør-Trøndelag	50,3	16,6	27,3	29,6	44,9	104,8	0,1	6,3	25,8
Nord-Trøndelag	71,8	26,8	61,0	73,5	109,3	166,7	3,7	9,6	52,2
Nordland	28,5	4,5	12,1	21,7	31,8	78,1	1,1	4,9	29,8
Troms	13,5	1,5	4,2	7,7	9,6	26,7	0,1	2,6	7,0
Finnmark	3,0	0,7	0,5	1,5	1,8	11,3	0,5	1,1	3,9
Agricultural area in use									
- 4 decares ²	6,4	2,3	2,4	3,6	7,2	20,5	-	1,7	7,0
5 - 49 "	106,6	25,9	25,1	37,0	42,1	115,2	0,7	9,9	27,3
50 - 99 "	153,3	40,9	39,5	61,3	66,6	178,0	2,9	9,3	30,3
100 - 199 "	237,1	66,6	104,4	149,9	182,3	466,8	5,2	31,3	123,3
200 - 299 "	139,7	49,2	72,7	104,2	162,0	321,7	6,1	18,8	92,1
300 - 499 "	95,6	31,8	54,8	86,2	143,5	244,6	3,1	15,5	97,2
500 - "	36,9	16,8	23,3	38,0	82,5	107,4	0,4	12,0	44,0
With/without livestock									
Without any livestock	256,4	103,0	93,7	105,5	64,7	115,6	2,5	8,6	11,1
With livestock	519,1	130,4	228,6	374,6	621,5	1 338,6	15,9	89,8	410,2
Holders³ by age group									
Legal persons	11,8	2,0	3,1	7,2	19,2	39,3	-	1,7	14,0
- 29 years	36,9	13,1	17,4	22,1	40,0	78,2	0,5	5,0	26,4
30 - 39 "	151,9	43,1	70,9	94,7	204,7	346,4	6,5	21,9	106,6
40 - 49 "	223,4	67,6	91,4	153,4	217,5	445,5	4,9	33,1	139,0
50 - 59 "	206,3	63,8	86,3	149,5	156,0	376,4	3,5	25,0	111,5
60 - 69 "	115,2	34,1	47,7	46,7	45,9	149,2	2,8	11,5	22,9
70 - "	30,1	9,5	5,4	6,6	2,9	19,1	0,2	0,4	0,8
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	15,5	2,6	3,6	3,7	3,0	6,1	0,1	0,4	0,4
100 - 499 "	130,0	39,9	39,5	33,0	26,8	55,6	1,4	4,7	5,8
500 - 999 "	112,8	41,0	31,0	46,8	47,7	74,8	0,8	7,0	10,0
1 000 - 1 499 "	74,0	30,7	25,6	45,1	39,3	91,5	1,2	4,8	16,7
1 500 - 1 999 "	58,6	18,9	24,5	44,7	45,7	101,4	0,6	6,4	19,2
2 000 - 2 999 "	128,5	39,8	52,4	104,8	143,2	318,5	3,4	19,4	78,1
3 000 - 3 999 "	106,7	27,1	66,6	86,1	153,3	317,3	1,5	20,4	102,3
4 000 - "	149,5	33,3	79,0	116,0	227,2	489,0	9,4	35,4	188,8

¹ Comprise only farm buildings with information about what they are used for or built for. ² Comprise mainly joint operations with milk production and holdings in horticulture.

³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

6.8. Base area of farm buildings¹ used for or built for other purposes than livestock, by year of construction, county and various structural classifications. 1 000 m²

	Base area, total	By year of construction				
		-1949	1950-1969	1970-1979	1980-1989	1990-1999
1979	5 537,8	3 020,0	1 288,5	1 229,3	.	.
1989	7 882,0	..	..	..	..	.
1999	10 325,8	4 383,1	1 356,3	1 221,8	2 096,4	1 268,1
1999						
County						
Østfold	1 207,8	646,3	152,5	132,0	180,5	96,6
Akershus and Oslo	1 122,7	637,3	149,5	95,4	156,4	84,1
Hedmark	1 398,8	679,9	199,4	164,3	222,9	132,4
Oppland	995,3	468,5	119,5	104,2	193,2	109,9
Buskerud	787,3	426,4	94,6	66,0	127,2	73,2
Vestfold	759,7	389,5	96,3	86,7	121,3	66,0
Telemark	373,0	216,4	39,5	22,1	58,3	36,6
Aust-Agder	133,3	46,4	17,8	15,3	33,6	20,1
Vest-Agder	143,5	42,0	18,4	16,5	36,8	29,8
Rogaland	488,1	79,9	84,1	74,2	151,1	98,9
Hordaland	262,8	82,6	35,8	25,7	67,0	51,7
Sogn og Fjordane	289,1	90,0	29,6	28,5	82,8	58,2
Møre og Romsdal	371,3	78,7	44,0	63,2	112,2	73,3
Sør-Trøndelag	679,5	216,5	77,5	87,9	185,5	112,2
Nord-Trøndelag	848,8	228,8	123,9	149,0	222,1	125,1
Nordland	307,3	36,4	47,3	63,2	97,1	63,2
Troms	116,3	13,0	16,6	20,0	38,9	27,7
Finnmark	41,1	4,5	10,2	7,6	9,6	9,3
Agricultural area in use						
- 4 decares ²	53,5	11,3	9,8	9,0	17,3	6,0
5 - 49 "	1 076,2	508,9	165,4	87,4	191,0	123,5
50 - 99 "	1 680,5	755,2	239,4	152,1	320,8	213,0
100 - 199 "	2 998,3	1 199,7	384,1	350,1	658,2	406,2
200 - 299 "	1 961,6	754,9	232,7	283,2	443,7	247,0
300 - 499 "	1 624,4	714,8	207,6	216,5	307,3	178,1
500 - "	931,4	438,4	117,3	123,5	158,1	94,3
With/without livestock						
Without any livestock	5 392,4	3 049,5	748,2	479,0	722,9	392,9
With livestock	4 933,4	1 333,6	608,1	742,9	1 373,5	875,3
Holders³ by age group						
Legal persons	165,7	42,6	35,6	19,1	42,1	26,3
- 29 years	443,1	173,2	65,1	55,8	91,9	57,1
30 - 39 "	2 187,9	836,1	294,8	294,0	451,0	312,0
40 - 49 "	3 182,0	1 349,2	418,5	341,3	650,9	422,1
50 - 59 "	2 898,8	1 284,4	366,0	329,1	606,2	313,0
60 - 69 "	1 230,8	578,5	142,4	157,9	226,5	125,6
70 - "	217,5	119,1	33,9	24,7	27,8	12,0
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	219,7	115,6	36,0	14,3	32,8	21,0
100 - 499 "	1 884,5	1 056,1	276,9	148,0	263,7	139,9
500 - 999 "	1 612,7	891,1	220,8	140,9	223,8	136,2
1 000 - 1 499 "	1 074,4	552,5	135,6	97,9	180,4	108,1
1 500 - 1 999 "	819,9	376,6	95,1	96,4	154,2	97,7
2 000 - 2 999 "	1 463,1	528,8	181,2	186,3	353,1	213,8
3 000 - 3 999 "	1 345,8	360,7	163,8	218,0	368,3	235,0
4 000 - "	1 905,7	501,8	247,0	320,2	520,3	316,6

¹ Comprise only farm buildings with information about what they are used for or built for. ² Comprise mainly joint operations with milk production and holdings in horticulture.

³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

6.9. Base area of farm buildings¹ used for or built for other purposes than livestock, by year of construction and year of rebuilding/enlarging, county and various structural classifications. 1999. 1 000 m²

	Built before 1970					Built 1970-1999			
	Not rebuilt/enlarged	Last time rebuilt/enlarged				Not rebuilt/enlarged	Last time rebuilt/enlarged		
		-1969	1970-1979	1980-1989	1990-1999		1970-1979	1980-1989	1990-1999
Total	2 718,9	570,9	496,7	947,2	1 005,8	4 040,7	23,1	169,2	353,4
County									
Østfold	383,9	66,1	62,6	151,6	134,6	359,2	2,0	18,7	29,1
Akershus and Oslo	362,1	80,4	71,7	132,1	140,5	290,6	3,7	13,6	28,1
Hedmark	395,0	92,0	93,7	138,1	160,4	444,8	4,9	22,5	47,3
Oppland	275,8	65,1	46,6	95,9	104,5	364,1	1,2	13,2	28,8
Buskerud	244,1	54,4	42,8	84,6	95,1	231,4	0,3	12,2	22,5
Vestfold	178,7	46,9	51,7	97,1	111,4	224,1	1,3	11,7	36,9
Telemark	133,1	27,4	17,4	40,9	37,2	109,1	0,4	3,1	4,5
Aust-Agder	27,6	7,0	6,2	12,4	11,0	58,5	0,8	3,1	6,7
Vest-Agder	32,8	7,9	3,4	6,7	9,6	77,2	-	1,1	4,7
Rogaland	90,5	12,3	10,9	24,9	25,4	299,3	1,0	6,9	16,9
Hordaland	61,0	12,6	7,4	18,9	18,6	134,4	0,6	1,5	7,8
Sogn og Fjordane	59,0	13,5	8,7	18,3	20,0	155,9	0,1	4,4	9,1
Møre og Romsdal	69,4	8,7	8,1	18,3	18,2	215,8	0,8	12,0	20,0
Sør-Trøndelag	160,5	32,6	19,0	40,6	41,2	346,4	1,8	13,3	24,1
Nord-Trøndelag	177,8	34,7	35,3	47,9	56,8	435,0	2,4	19,4	39,3
Nordland	43,2	5,9	8,2	11,0	15,5	195,8	1,4	8,3	18,1
Troms	16,3	2,5	2,0	4,7	4,1	75,3	0,2	2,8	8,4
Finnmark	7,9	0,8	1,0	3,1	1,8	23,7	0,3	1,4	1,1
Agricultural area in use									
- 4 decares ²	12,0	1,7	1,0	2,5	4,0	27,1	-	0,6	4,6
5 - 49 "	353,4	80,2	42,7	89,4	108,6	358,4	0,6	12,0	30,9
50 - 99 "	509,0	102,7	78,4	157,3	147,3	615,0	3,4	21,4	46,1
100 - 199 "	784,6	163,0	138,2	245,6	252,4	1 279,2	4,0	44,5	86,8
200 - 299 "	474,1	89,1	94,0	164,3	166,1	850,4	6,2	43,0	74,4
300 - 499 "	378,5	83,6	91,6	168,5	200,3	596,7	3,9	31,0	70,4
500 - "	207,5	50,7	50,7	119,6	127,2	313,9	5,2	16,5	40,2
With/without livestock									
Without any livestock	1 703,0	423,7	343,2	671,8	656,2	1 368,4	10,6	77,7	138,0
With livestock	1 016,0	147,2	153,5	275,5	349,6	2 672,3	12,6	91,5	215,3
Holders³ by age group									
Legal persons	31,6	5,4	5,7	16,5	19,1	75,8	-	2,4	9,3
- 29 years	115,5	22,1	20,1	45,2	35,4	180,3	1,2	7,9	15,4
30 - 39 "	537,7	100,4	94,0	164,4	234,5	918,8	7,8	38,7	91,7
40 - 49 "	792,7	160,3	144,2	308,4	362,2	1 237,4	5,2	50,0	121,7
50 - 59 "	778,0	169,4	143,3	301,7	258,0	1 106,2	4,9	49,1	88,2
60 - 69 "	369,1	89,9	79,5	95,6	86,9	462,0	3,9	19,2	24,8
70 - "	94,4	23,4	9,9	15,5	9,7	60,2	-	1,9	2,4
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	82,8	17,6	9,9	18,0	23,4	59,1	0,4	1,7	7,0
100 - 499 "	684,0	153,9	100,1	218,9	176,1	489,1	1,8	21,9	38,7
500 - 999 "	507,4	124,9	103,2	181,9	194,4	441,7	1,9	21,9	35,3
1 000 - 1 499 "	308,2	66,6	57,3	113,0	143,0	347,0	2,7	11,8	24,9
1 500 - 1 999 "	214,2	48,5	40,3	80,4	88,4	303,4	1,5	16,1	27,3
2 000 - 2 999 "	332,9	58,1	68,0	117,4	133,6	675,7	3,7	20,6	53,2
3 000 - 3 999 "	267,0	42,4	47,5	79,0	88,7	733,2	4,0	28,5	55,6
4 000 - "	322,5	59,0	70,4	138,7	158,2	991,6	7,2	46,8	111,4

¹ Comprise only farm buildings with information about what they are used for or built for. ² Comprise mainly joint operations with milk production and holdings in horticulture.

³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

6.10. Holdings with grain drier, area of grain and oil-seeds on holdings with/without grain drier and holdings with hay drier, by county and various structural classifications

	Holdings with grain drier			Area of grain and oil-seeds		Holdings with hay drier
	Total	With cold-air drier	With warm-air drier	On holdings with grain drier	On holdings without any grain drier	
1979	12 570	10 188	3 210	2 016 454	1 235 817	2 184
1989	15 620	13 693	3 291	2 542 484	987 319	7 449
1999	14 367	12 483	3 846	2 700 754	644 642	10 631
1999						
County						
Østfold	2 574	2 220	858	564 251	72 755	288
Akershus and Oslo	2 201	1 656	1 121	573 895	79 276	400
Hedmark	1 978	1 515	744	469 649	129 944	1 097
Oppland	1 298	1 208	188	191 960	60 708	2 321
Buskerud	1 394	1 238	276	222 217	48 763	994
Vestfold	1 394	1 290	273	236 122	75 532	299
Telemark	643	588	99	67 915	29 274	773
Aust-Agder	49	46	5	3 964	8 622	284
Vest-Agder	18	18	-	1 547	6 230	166
Rogaland	38	33	5	3 492	32 919	444
Hordaland	:	:	:	-	615	533
Sogn og Fjordane	10	8	3	380	781	906
Møre og Romsdal	58	50	11	3 713	13 077	417
Sør-Trøndelag	634	589	73	93 063	59 956	653
Nord-Trøndelag	2 049	1 998	186	266 905	25 228	466
Nordland	25	22	4	1 681	962	293
Troms	:	:	:	-	-	152
Finnmark	:	:	:	-	-	145
Agricultural area in use						
- 4 decares ¹	16	15	3	-	4	57
5 - 49 "	695	669	37	18 054	47 544	1 550
50 - 99 "	2 082	1 954	176	129 383	130 929	2 690
100 - 199 "	4 399	3 923	749	513 464	208 381	3 498
200 - 299 "	3 079	2 641	842	549 230	120 726	1 573
300 - 499 "	2 793	2 289	1 208	787 031	98 093	918
500 - "	1 303	992	831	703 592	38 965	345
With/without livestock						
Without any livestock	8 562	7 328	2 402	1 622 116	391 751	1 865
With livestock	5 805	5 155	1 444	1 078 638	252 891	8 766
Area of grain and oil-seeds						
Without any grain or oil-seeds	866	824	61	.	.	8 112
1 - 49 decares	1 210	1 166	64	39 135	99 288	545
50 - 99 "	2 661	2 487	249	197 522	182 892	568
100 - 199 "	4 552	4 001	917	655 817	218 908	677
200 - 299 "	2 447	2 008	917	592 307	82 239	333
300 - 499 "	1 901	1 481	1 081	717 001	46 016	273
500 - "	730	516	557	498 972	15 299	123
Dairy cows						
Without any dairy cows	12 430	10 699	3 517	2 439 785	541 650	7 561
1 - 9 dairy cows	151	142	16	14 428	8 686	759
10 - 14 "	477	439	64	48 358	26 282	1 042
15 - 19 "	620	585	79	68 935	29 793	716
20 - 24 "	366	332	80	53 949	19 897	294
25 - "	323	286	90	75 299	18 334	259
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	197	185	13	7 201	20 943	106
100 - 499 "	3 306	2 993	483	342 931	195 365	1 237
500 - 999 "	2 858	2 437	750	480 668	118 838	1 490
1 000 - 1 499 "	1 703	1 439	565	369 938	59 512	1 367
1 500 - 1 999 "	1 151	946	451	292 658	38 878	1 075
2 000 - 2 999 "	1 837	1 572	622	454 482	67 955	2 061
3 000 - 3 999 "	1 482	1 310	396	305 164	58 016	1 608
4 000 - "	1 833	1 601	566	447 712	85 135	1 687

¹ Comprise mainly joint operations with milk production and holdings in horticulture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

6.11. Holdings with emergency power generator. Holdings with dairy barn and capacity of dairy barn, by type of barn, county and various structural classifications. 1999

	Holdings with access to emergency power generator	Holdings with dairy barn in usable condition for milk production			Cow capacity		Holdings with dairy cows	Number of dairy cows
		Total	Stanchion barn	Loose housing barn	In stanchion barn	In loose housing barn		
Total	8 943	27 461	25 872	1 856	446 425	42 932	22 659	312 948
County								
Østfold	289	538	467	81	9 278	2 506	373	6 921
Akershus and Oslo	185	584	526	70	10 255	1 821	369	6 762
Hedmark	770	1 544	1 417	142	24 678	3 633	1 197	18 416
Oppland	1 019	3 080	2 916	186	48 331	4 742	2 648	34 714
Buskerud	374	902	823	88	11 518	1 656	599	7 164
Vestfold	156	301	235	76	4 305	1 783	185	3 546
Telemark	254	507	470	47	5 730	837	317	3 245
Aust-Agder	145	357	346	18	4 965	331	261	2 893
Vest-Agder	247	816	782	47	10 731	901	652	7 491
Rogaland	570	3 566	3 434	163	75 795	4 467	3 094	52 221
Hordaland	514	2 135	2 077	70	29 958	1 331	1 651	17 541
Sogn og Fjordane	993	2 486	2 422	80	34 239	1 322	2 120	21 881
Møre og Romsdal	1 105	2 749	2 588	187	42 840	4 211	2 262	30 771
Sør-Trøndelag	695	2 609	2 428	201	44 671	4 473	2 229	31 614
Nord-Trøndelag	448	2 488	2 286	230	45 694	5 684	2 243	34 671
Nordland	791	1 885	1 789	111	29 509	2 117	1 679	22 253
Troms	288	645	619	31	9 544	628	544	7 171
Finnmark	100	269	247	28	4 384	489	236	3 673
Agricultural area in use								
- 4 decares ¹	187	377	320	78	9 315	2 991	376	9 964
5 - 49 "	759	1 077	1 069	17	8 369	145	243	1 102
50 - 99 "	1 326	4 139	4 091	78	44 833	1 085	2 510	18 020
100 - 199 "	3 526	11 844	11 333	598	182 248	10 185	10 268	120 308
200 - 299 "	1 970	6 704	6 212	560	128 248	11 797	6 253	99 489
300 - 499 "	898	2 777	2 424	389	60 133	10 461	2 541	50 457
500 - "	277	543	423	136	13 279	6 268	468	13 608
With/without livestock								
Without any livestock	973	1 403	1 377	33	18 420	684	.	.
With livestock	7 970	26 058	24 495	1 823	428 005	42 248	22 659	312 948
Dairy cows								
Without any dairy cows	3 337	4 802	4 617	266	60 919	5 081	.	.
1 - 9 dairy cows	1 358	6 047	5 963	115	69 465	1 448	6 047	42 938
10 - 14 "	2 069	7 979	7 627	403	127 996	6 940	7 979	95 428
15 - 19 "	1 329	5 201	4 783	469	101 977	9 189	5 201	86 660
20 - 24 "	506	2 062	1 808	270	48 051	6 604	2 062	44 528
25 - "	344	1 370	1 074	333	38 017	13 670	1 370	43 394
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	48	99	98	2	1 026	30	-	-
100 - 499 "	357	897	878	25	9 872	418	22	195
500 - 999 "	502	1 050	1 009	59	11 916	974	98	773
1 000 - 1 499 "	497	1 240	1 203	57	15 114	959	326	2 508
1 500 - 1 999 "	597	1 591	1 544	63	19 927	1 111	895	7 640
2 000 - 2 999 "	1 888	6 611	6 353	312	97 671	5 920	5 813	64 670
3 000 - 3 999 "	2 281	8 228	7 729	565	140 585	11 622	7 912	107 930
4 000 - "	2 773	7 745	7 058	773	150 314	21 898	7 593	129 232

¹Comprise mainly joint operations with milk production.Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

6.12. Holdings¹ with fire alarm system and holdings with storage for slurry, solid dung or built up/deep litter, by county and various structural classifications. 1999

	Holdings with livestock, total	Holdings with approved fire alarm system in farm buildings with livestock	Holdings with storage for slurry ²	Holdings with storage for solid dung ³	Holdings without storage for slurry or solid dung	Holdings which used built up/deep litter
Total.....	51 058	3 006	30 604	20 883	2 769	9 475
County						
Østfold	1 414	105	610	742	144	432
Akershus and Oslo	1 317	97	576	640	170	420
Hedmark	3 168	178	1 724	1 332	284	987
Oppland	5 173	328	3 226	1 875	352	1 169
Buskerud	1 891	134	792	1 009	172	598
Vestfold	861	87	372	460	85	357
Telemark	1 417	88	455	771	244	494
Aust-Agder	937	51	382	465	142	296
Vest-Agder	1 662	82	944	684	169	459
Rogaland	5 737	262	4 241	2 022	116	748
Hordaland	4 990	144	2 466	2 706	218	642
Sogn og Fjordane	4 710	110	2 739	2 131	182	595
Møre og Romsdal	4 554	131	3 183	1 453	174	544
Sør-Trøndelag	3 759	345	2 707	1 109	115	550
Nord-Trøndelag	3 711	556	3 052	775	73	544
Nordland	3 420	172	2 050	1 407	82	389
Troms	1 813	90	808	1 054	25	176
Finnmark	524	46	277	248	22	75
Agricultural area in use						
- 4 decares ⁴	406	45	379	35	8	41
5 - 49 "	8 131	313	1 326	6 086	1 010	2 216
50 - 99 "	11 713	411	4 686	6 917	858	2 365
100 - 199 "	17 528	931	13 041	5 212	516	2 465
200 - 299 "	8 425	729	7 277	1 507	168	1 199
300 - 499 "	3 868	422	3 210	815	133	841
500 - "	987	155	685	311	76	348
Dairy cows						
Without any dairy cows	28 399	1 421	9 006	18 539	2 685	7 411
1 - 9 dairy cows	6 047	240	5 315	1 168	40	567
10 - 14 "	7 979	536	7 755	652	18	675
15 - 19 "	5 201	417	5 138	311	10	415
20 - 24 "	2 062	206	2 032	119	12	231
25 - "	1 370	186	1 358	94	4	176
Holders⁵ by age group						
Legal persons	587	99	480	137	15	87
- 29 years	2 799	152	1 854	1 004	162	602
30 - 39 "	10 820	660	7 098	3 895	589	2 228
40 - 49 "	14 882	820	9 220	5 836	790	2 818
50 - 59 "	13 605	836	8 010	5 678	669	2 220
60 - 69 "	6 984	387	3 498	3 490	377	1 168
70 - "	1 381	52	444	843	167	352
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	232	7	32	176	31	55
100 - 499 "	3 046	105	440	2 243	469	906
500 - 999 "	6 206	197	1 352	4 334	790	1 736
1 000 - 1 499 "	6 058	233	1 866	3 995	513	1 441
1 500 - 1 999 "	5 109	237	2 248	2 856	343	1 097
2 000 - 2 999 "	11 090	615	7 653	3 845	374	1 785
3 000 - 3 999 "	10 148	704	8 769	1 912	136	1 229
4 000 - "	9 169	908	8 244	1 522	113	1 226

¹ Comprise holdings with livestock. ² May also have storage for solid dung or built up/deep litter. ³ May also have storage for slurry or built up/deep litter. ⁴ Comprise mainly joint operations with milk production. ⁵ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

6.13. Holdings¹ with storage for slurry and solid dung, by storage capacity, county and various structural classifications. 1999

	Holdings with storage for slurry ²				Holdings with storage for solid dung ³			
	Total	By storage capacity in months			Total	By storage capacity in months		
		-7	8-12	13-		-7	8-12	13-
Total	30 604	2 348	26 608	1 648	20 883	3 625	13 232	4 026
County								
Østfold	610	70	511	29	742	117	588	37
Akershus and Oslo	576	48	493	35	640	113	465	62
Hedmark	1 724	111	1 512	101	1 332	224	931	177
Oppland	3 226	159	2 918	149	1 875	252	1 152	471
Buskerud	792	41	689	62	1 009	168	581	260
Vestfold	372	59	294	19	460	91	348	21
Telemark	455	40	401	14	771	144	458	169
Aust-Agder	382	32	322	28	465	95	297	73
Vest-Agder	944	118	775	51	684	139	430	115
Rogaland	4 241	310	3 708	223	2 022	374	1 383	265
Hordaland	2 466	284	2 054	128	2 706	714	1 616	376
Sogn og Fjordane	2 739	225	2 367	147	2 131	428	1 305	398
Møre og Romsdal	3 183	323	2 707	153	1 453	251	913	289
Sør-Trøndelag	2 707	193	2 387	127	1 109	148	682	279
Nord-Trøndelag	3 052	167	2 740	145	775	117	531	127
Nordland	2 050	136	1 793	121	1 407	185	812	410
Troms	808	25	683	100	1 054	42	561	451
Finnmark	277	7	254	16	248	23	179	46
Agricultural area in use								
- 4 decares ⁴	379	21	348	10	35	2	28	5
5 - 49 "	1 326	231	964	131	6 086	1 364	3 756	966
50 - 99 "	4 686	488	3 842	356	6 917	1 209	4 231	1 477
100 - 199 "	13 041	874	11 531	636	5 212	712	3 293	1 207
200 - 299 "	7 277	465	6 461	351	1 507	179	1 074	254
300 - 499 "	3 210	218	2 859	133	815	115	607	93
500 - "	685	51	603	31	311	44	243	24
Dairy cows								
Without any dairy cows	9 006	946	7 128	932	18 539	3 264	11 389	3 886
1 - 9 dairy cows	5 315	425	4 708	182	1 168	220	886	62
10 - 14 "	7 755	431	7 073	251	652	83	521	48
15 - 19 "	5 138	306	4 670	162	311	37	255	19
20 - 24 "	2 032	138	1 826	68	119	13	99	7
25 - "	1 358	102	1 203	53	94	8	82	4
Holders⁵ by age group								
Legal persons	480	24	438	18	137	12	112	13
- 29 years	1 854	171	1 575	108	1 004	169	623	212
30 - 39 "	7 098	504	6 165	429	3 895	609	2 545	741
40 - 49 "	9 220	697	8 018	505	5 836	925	3 754	1 157
50 - 59 "	8 010	563	7 019	428	5 678	991	3 450	1 237
60 - 69 "	3 498	329	3 027	142	3 490	750	2 165	575
70 - "	444	60	366	18	843	169	583	91
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	32	6	25	1	176	41	125	10
100 - 499 "	440	101	296	43	2 243	493	1 483	267
500 - 999 "	1 352	188	1 040	124	4 334	903	2 698	733
1 000 - 1 499 "	1 866	212	1 478	176	3 995	725	2 410	860
1 500 - 1 999 "	2 248	233	1 817	198	2 856	485	1 725	646
2 000 - 2 999 "	7 653	589	6 641	423	3 845	538	2 413	894
3 000 - 3 999 "	8 769	532	7 883	354	1 912	269	1 272	371
4 000 - "	8 244	487	7 428	329	1 522	171	1 106	245

¹ Comprise holdings with livestock. ² May also have storage for solid dung or built up/deep litter. ³ May also have storage for slurry or built up/deep litter. ⁴ Comprise mainly joint operations with milk production. ⁵ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

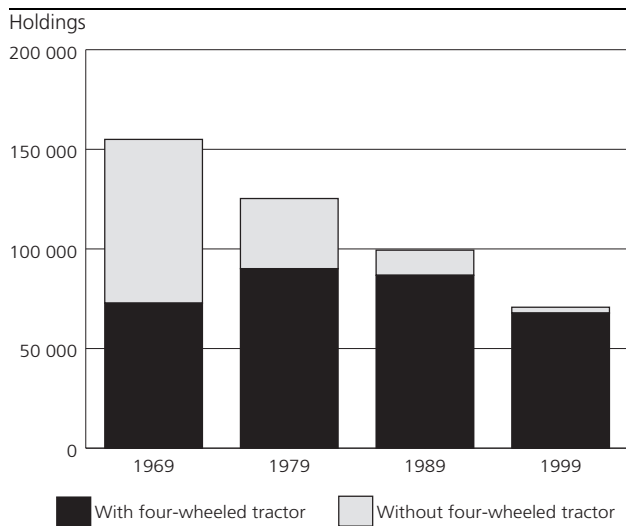
Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

7. Machinery and equipment

7.1. Four-wheeled tractors

In 1999, 67 800 or 96 per cent of all agricultural and horticultural holdings had four-wheeled tractors. In comparison, there were four-wheeled tractors at respectively 72 and 87 per cent of the holdings in 1979 and 1989. An increasingly greater number of tractors have four-wheel drive. In 1999 there were altogether 134 300 four-wheeled tractors, 52 per cent of these had four-wheel drive. In 1979 and 1989 the corresponding figures were 8 and 34 per cent. Among the four-wheeled tractors made in 1990 or later 96 per cent had four-wheel drive.

Figure 7.1. Holdings with/without four-wheeled tractor. The whole country. 1969, 1979, 1989 and 1999

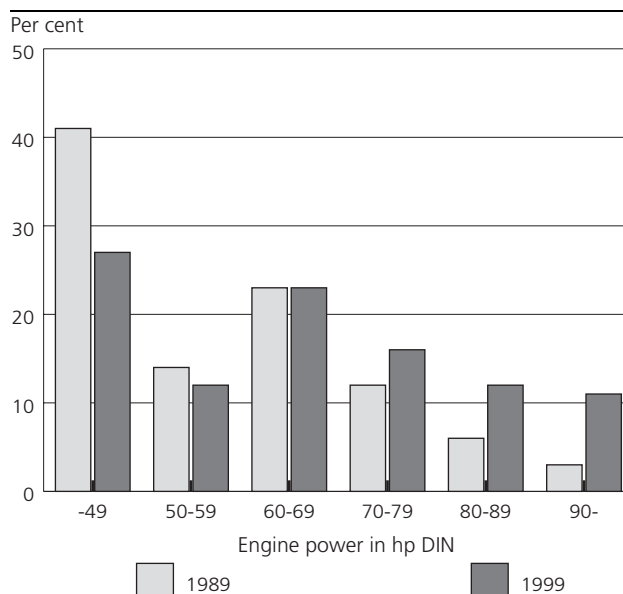


Four-wheeled tractors used in agriculture are increasingly larger. From 1989 to 1999 the number of four-wheeled tractors with engine power of 80 hp DIN or more increased from 14 500 to 30 200. Among tractors made in 1990 or later, 59 per cent had an engine power of 80 hp DIN or more.

7.2. Other machinery and equipment

In 1999 there were combine harvesters at 14 900 holdings. 18 per cent of the holdings were only part owners of harvesters, while 82 per cent were sole owner of their harvester. Average area of grain and oil-seeds per harvester was 202 decares in 1979, 212 decares in 1989 and 242 decares in 1999. In comparison average area of grain and oil-seeds per holding was respectively 82 decares, 107 decares and 153 decares. Previously, trailed harvesters constituted part of the harvesters. Trailed harvesters have not been sold for several years and the old harvesters have gradually become obsolete. The new self-propelled harvesters have a considerably greater capacity than trailed harvesters in particular, and in

Figure 7.2. Four-wheeled tractors by engine power. The whole country. 1989 and 1999. Per cent



comparison to the old self-propelled harvesters. Of altogether 13 800 combine harvesters in 1999, harvesters that were 20 years or older and from the years 1980 to 1989 constituted about 44 per cent each, while only 12 per cent of harvesters were from 1990 or later.

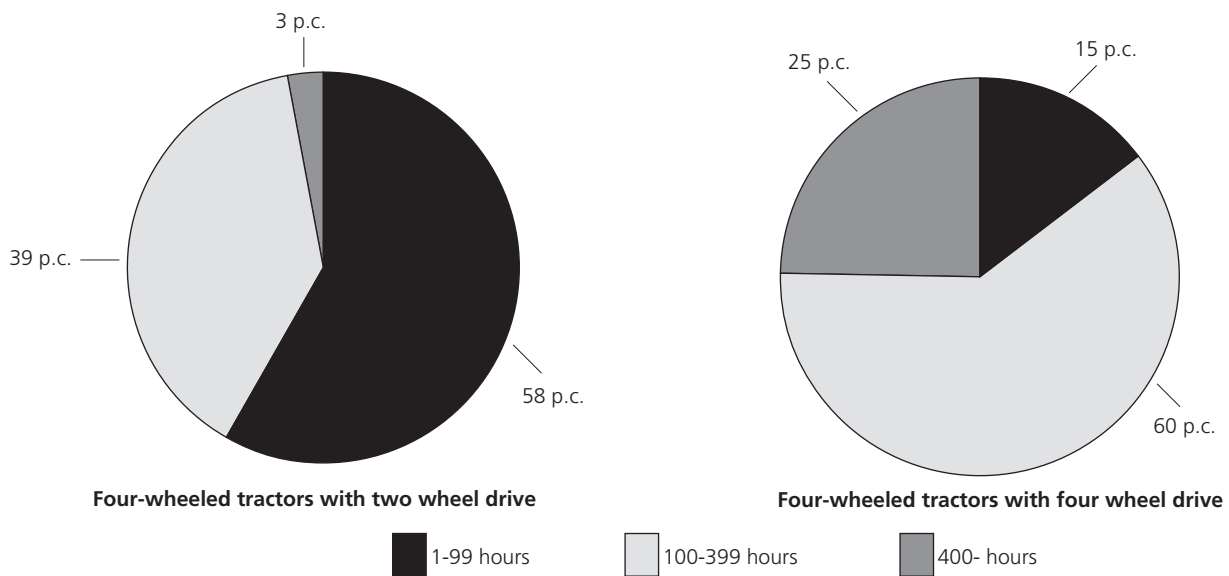
In 1999 there were 33 800 holdings with 27 200 crop sprayers available for their use. 21 per cent of the crop sprayers were 20 years or older, 56 per cent were from 1980-1989, while 23 per cent were from 1990 or later.

7.3. Contracting services and machinery pooling/exchange

Altogether 35 100 holdings, or about 50 per cent of the holdings, hired machinery with operator during the last 12 months before the census date. Contracting services were often done during packing and baling of straw or other coarse forage (24 900 holdings), in reaping coarse forage with a mower or flail forage harvester (11 600 holdings) or threshing with a combine harvester (7 100 holdings).

14 100 holdings, or 20 per cent of all holdings had contracts to operate machinery for others in the last 12 months. Contracting out agricultural tractor with operator in forestry and other contracting services of agricultural tractors with operators are included in these figures. These types of services may have been contracted off the agricultural holdings. Other contracting services, like snow clearing, is the most typical type of work referred to here (8 100 holdings). Next in succession are pressing or packing of straw or other coarse forage, coarse forage reaped by mower or flail forage harvester and threshing with combine harvester.

Figure 7.3. Four-wheeled tractors by operating time the last 12 months. The whole country, 1999. Per cent



About 29 per cent of all holdings did non-remunerative machinery pooling/work exchange with other holdings during the last 12 months. In addition to those registered as co-operating/exchanging work, there was a number of holdings that only had joint ownership of equipment with other holdings. The number of holdings co-operating, in one way or other, with other holdings as regards machinery and equipment was thus higher than indicated by the figure for machinery pooling/exchange work. The most common types of machinery pooling/work exchange were reaping of coarse forage with mower or flail forage harvester (6 900 holdings), seeding/planting (barely 6 000 holdings) and ploughing/harrowing (5 800 holdings).

7.4. Irrigation system

In 1999, altogether 12 500 holdings had irrigation installations. The agricultural area that could be irrigated at these holdings constituted 1 344 000 decares, or 13 per cent of agricultural area in use. In 1989, 907 000 decares could be irrigated. Area that can be irrigated thus increased by 48 per cent in the 10-year period.

7.1. Holdings with/without four-wheeled tractor, by county and various structural classifications

	Holdings without any four-wheeled tractor	Holdings with four-wheeled tractor						
		Total	By number of four-wheeled tractors				By two/four wheel drive	
			0.1-1.9	2.0-2.9	3.0-3.9	4.0 or more	With two wheel drive	With four wheel drive
1969	82 182	72 795	61 174	9 907	1 334	380	..	..
1979	35 193	90 109	57 831	26 018	5 104	1 156	84 649	10 235
1989	12 597	86 785	37 609	34 613	11 554	3 009	68 803	48 992
1999	2 910	67 830	22 673	29 388	11 886	3 883	46 921	54 036
1999								
County								
Østfold	90	3 514	839	1 419	875	381	2 942	2 587
Akershus and Oslo	101	3 383	903	1 378	796	306	2 610	2 643
Hedmark	206	5 768	1 756	2 316	1 164	532	4 472	4 345
Oppland	255	6 799	1 878	3 077	1 370	474	4 727	5 835
Buskerud	99	3 721	1 227	1 724	568	202	2 617	2 993
Vestfold	52	2 411	628	1 098	532	153	1 983	1 728
Telemark	88	2 528	1 023	1 171	288	46	1 528	2 090
Aust-Agder	65	1 193	515	507	128	43	699	985
Vest-Agder	120	1 874	902	745	179	48	1 010	1 548
Rogaland	287	5 902	1 893	2 518	1 098	393	4 665	3 785
Hordaland	423	5 172	2 915	1 894	301	62	2 437	4 199
Sogn og Fjordane	288	5 007	2 358	2 187	383	79	2 454	4 230
Møre og Romsdal	186	4 832	1 662	2 276	706	188	3 316	3 961
Sør-Trøndelag	157	4 648	1 057	2 209	1 102	280	3 518	3 976
Nord-Trøndelag	176	4 850	1 077	2 219	1 189	365	3 779	4 038
Nordland	170	3 663	1 011	1 562	823	267	2 670	2 972
Troms	80	1 974	767	861	297	49	1 143	1 670
Finnmark	67	591	262	227	87	15	351	451
Agricultural area in use								
- 4 decares ¹	520	209	127	36	20	26	138	127
5 - 49 "	1 660	12 128	8 372	3 329	370	57	7 452	6 895
50 - 99 "	428	16 292	7 504	7 316	1 295	177	10 327	11 975
100 - 199 "	215	22 071	5 111	11 801	4 287	872	15 625	19 040
200 - 299 "	55	10 312	1 176	4 800	3 273	1 063	7 934	9 474
300 - 499 "	28	5 245	344	1 824	2 066	1 011	4 199	4 985
500 - "	4	1 573	39	282	575	677	1 246	1 540
Holder² by age group								
Legal persons	405	376	118	87	59	112	247	310
- 29 years	199	3 457	1 188	1 418	650	201	2 308	2 885
30 - 39 "	415	13 852	4 212	6 103	2 675	862	9 530	11 656
40 - 49 "	525	19 922	6 456	8 701	3 589	1 176	13 821	16 227
50 - 59 "	568	18 708	6 076	8 205	3 348	1 079	13 091	14 735
60 - 69 "	492	9 489	3 589	4 107	1 385	408	6 497	7 051
70 - "	306	2 026	1 034	767	180	45	1 427	1 172
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	278	1 506	1 143	327	31	5	991	744
100 - 499 "	818	10 567	5 626	4 123	714	104	7 194	6 792
500 - 999 "	626	9 960	4 703	4 020	1 039	198	6 657	6 999
1 000 - 1 499 "	341	7 706	3 325	3 146	1 013	222	4 965	5 893
1 500 - 1 999 "	184	5 997	2 272	2 624	860	241	3 841	4 902
2 000 - 2 999 "	257	11 865	3 002	5 939	2 270	654	8 080	10 272
3 000 - 3 999 "	166	10 471	1 609	5 294	2 784	784	7 664	9 487
4 000 - "	240	9 758	993	3 915	3 175	1 675	7 529	8 947

¹ Comprise mainly joint operations with milk production and holdings in horticulture. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

7.2. Four-wheeled tractors by engine power, by county and various structural classifications

	Four-wheeled tractors, total	By engine power in hp DIN							Not reported
		-49	50-59	60-69	70-79	80-89	90-99	100-	
1969.....	86 722	78 983	3 630	2 934	177	87	40	-	871
1979.....	130 202	86 397	13 681	19 666	6 475	2 412	572	354	645
1989.....	154 696	63 873	21 670	36 204	18 032	9 644	3 233	1 649	391
1999.....	134 341	36 304	16 042	30 405	20 983	15 508	8 974	5 746	379
1999									
County									
Østfold.....	8 009	1 662	598	1 605	1 344	1 189	758	803	51
Akershus and Oslo.....	7 431	1 409	588	1 432	1 187	1 077	756	923	59
Hedmark.....	12 232	2 447	1 058	2 813	2 134	1 777	1 071	882	51
Oppland.....	14 198	3 185	1 620	3 417	2 373	1 891	1 080	621	12
Buskerud.....	7 307	1 790	809	1 730	1 217	917	491	323	30
Vestfold.....	5 132	1 047	533	1 225	950	645	393	297	43
Telemark.....	4 448	1 251	738	1 049	722	382	190	107	9
Aust-Agder.....	2 105	637	402	490	255	198	76	46	3
Vest-Agder.....	3 158	1 024	573	681	353	273	167	74	15
Rogaland.....	11 946	3 772	1 488	2 721	1 706	1 129	724	382	25
Hordaland.....	7 897	3 276	1 600	1 613	758	412	164	61	14
Sogn og Fjordane.....	8 243	3 071	1 413	1 956	972	520	231	73	7
Møre og Romsdal.....	9 148	2 934	1 082	2 081	1 338	950	542	215	6
Sør-Trøndelag.....	9 998	2 641	939	2 164	1 737	1 350	836	314	18
Nord-Trøndelag.....	10 687	2 596	1 067	2 370	1 872	1 541	853	366	21
Nordland.....	7 752	2 265	1 009	1 952	1 255	769	375	117	11
Troms.....	3 606	1 031	425	831	603	375	216	120	5
Finnmark.....	1 045	265	104	277	210	114	52	24	-
Agricultural area in use									
- 4 decares ¹	377	105	60	63	56	55	20	16	4
5 - 49 ".....	16 379	7 827	2 990	3 267	1 409	561	213	113	-
50 - 99 ".....	26 832	9 330	4 594	6 626	3 604	1 770	622	268	18
100 - 199 ".....	45 377	11 440	5 266	11 286	8 072	5 737	2 611	949	16
200 - 299 ".....	25 200	4 835	2 013	5 750	4 628	4 106	2 597	1 227	45
300 - 499 ".....	14 631	2 260	896	2 708	2 497	2 477	2 059	1 648	86
500 - ".....	5 544	507	224	705	718	803	853	1 525	210
Two/four wheel drive									
Two wheel drive.....	64 515	30 952	9 208	14 683	5 967	2 582	830	293	..
Four wheel drive.....	69 447	5 351	6 834	15 723	15 016	12 926	8 143	5 454	..
Not reported.....	379	..	..	..	..	..	..	..	379
Model year									
- 1969.....	21 422	17 274	1 749	1 963	302	106	14	16	..
1970 - 1979.....	38 437	14 171	6 625	10 644	4 331	1 799	507	359	..
1980 - 1989.....	48 063	4 464	6 659	14 246	10 715	7 217	2 976	1 787	..
1990 - 1994.....	12 073	242	652	2 501	2 957	2 880	1 809	1 034	..
1995 -	13 966	153	357	1 052	2 678	3 507	3 668	2 551	..
Not reported.....	379	..	..	..	..	..	..	..	379
Total employment in agriculture and horticulture on the holding									
- 99 man-hours.....	1 906	686	316	469	220	135	42	38	-
100 - 499 ".....	16 475	5 100	2 256	3 976	2 556	1 536	647	389	15
500 - 999 ".....	16 728	5 488	2 258	3 656	2 356	1 619	817	532	2
1 000 - 1 499 ".....	13 638	4 285	1 925	2 979	1 914	1 251	714	567	4
1 500 - 1 999 ".....	11 165	3 335	1 481	2 461	1 614	1 116	665	488	5
2 000 - 2 999 ".....	24 551	6 359	3 001	5 687	3 903	2 895	1 608	1 066	30
3 000 - 3 999 ".....	23 948	5 520	2 449	5 692	4 060	3 259	1 966	966	36
4 000 - ".....	25 931	5 530	2 356	5 487	4 360	3 697	2 514	1 700	287

¹Comprise mainly joint operations with milk production and holdings in horticulture.

Source: Census of Agriculture 1969, Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/jt1999_en/.

7.3. Four-wheeled tractors, by model year, county and various structural classifications

	Four-wheeled tractors, total	By model year					Not reported
		-1969	1970-1979	1980-1989	1990-1994	1995-1999	
1979	130 202	70 053	59 363	.	.	.	786
1989	154 696	43 038	54 250	57 093	.	.	315
1999	134 341	21 422	38 437	48 063	12 073	13 966	379
1999							
County							
Østfold	8 009	1 523	2 631	2 741	474	591	50
Akershus and Oslo	7 431	1 263	2 167	2 638	583	721	59
Hedmark	12 232	1 941	3 609	4 522	872	1 238	51
Oppland	14 198	2 335	3 869	5 201	1 287	1 494	12
Buskerud	7 307	1 283	2 144	2 661	539	649	30
Vestfold	5 132	947	1 496	1 825	357	465	43
Telemark	4 448	704	1 250	1 627	375	484	9
Aust-Agder	2 105	323	581	730	203	266	3
Vest-Agder	3 158	419	914	1 109	328	374	15
Rogaland	11 946	2 146	3 590	3 757	1 151	1 278	25
Hordaland	7 897	1 079	2 208	3 002	750	844	14
Sogn og Fjordane	8 243	951	2 453	3 152	788	892	7
Møre og Romsdal	9 148	1 464	2 575	3 173	975	956	6
Sør-Trøndelag	9 998	1 635	2 649	3 466	1 064	1 166	18
Nord-Trøndelag	10 687	1 619	2 975	3 854	1 066	1 151	21
Nordland	7 752	1 176	2 165	2 852	754	794	11
Troms	3 606	508	887	1 339	395	473	5
Finnmark	1 045	108	275	415	115	132	-
Agricultural area in use							
- 4 decares ¹	377	56	101	129	41	46	4
5 - 49 "	16 379	3 715	5 554	5 838	734	538	-
50 - 99 "	26 832	4 889	8 011	10 212	1 887	1 815	18
100 - 199 "	45 377	6 914	12 796	16 093	4 471	5 087	16
200 - 299 "	25 200	3 442	6 909	8 826	2 652	3 326	45
300 - 499 "	14 631	1 873	3 834	5 019	1 636	2 182	86
500 - "	5 544	533	1 232	1 946	652	972	210
Two/four wheel drive							
Two wheel drive	64 515	20 763	31 452	11 344	659	298	..
Four wheel drive	69 447	660	6 985	36 720	11 415	13 668	..
Not reported	379	..	..	..	..	..	379
Holder² by age group							
Legal persons	1 162	88	202	381	140	180	172
- 29 years	6 870	951	1 916	2 498	639	853	13
30 - 39 "	28 260	4 135	7 832	10 257	2 676	3 322	39
40 - 49 "	39 800	6 082	11 353	14 484	3 572	4 230	80
50 - 59 "	37 236	6 192	10 730	13 215	3 343	3 700	56
60 - 69 "	17 718	3 188	5 354	6 158	1 466	1 532	20
70 - "	3 296	787	1 051	1 071	237	150	-
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	1 906	431	658	663	77	77	-
100 - 499 "	16 475	3 303	5 250	6 263	892	753	15
500 - 999 "	16 728	3 188	5 316	6 250	982	990	2
1 000 - 1 499 "	13 638	2 441	4 070	5 143	953	1 027	4
1 500 - 1 999 "	11 165	1 821	3 203	4 082	930	1 124	5
2 000 - 2 999 "	24 551	3 534	6 775	8 853	2 409	2 949	31
3 000 - 3 999 "	23 948	3 281	6 411	8 202	2 720	3 298	36
4 000 - "	25 931	3 425	6 754	8 607	3 110	3 749	287

¹ Comprise mainly joint operations with milk production and holdings in horticulture. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

7.4. Four-wheeled tractors with two/four wheel drive, by time used last 12 months¹, county and various structural classifications. 1999

	With two wheel drive				With four wheel drive			
	Total	By use in hours			Total	By use in hours		
		1-99	100-399	400-		1-99	100-399	400-
Total	64 515	37 572	25 044	1 899	69 447	10 146	42 139	17 162
County								
Østfold	4 618	2 688	1 818	112	3 341	513	2 211	617
Akershus and Oslo	3 742	2 390	1 272	80	3 629	566	2 339	725
Hedmark	6 262	3 624	2 455	183	5 919	800	3 505	1 614
Oppland	6 315	3 839	2 353	122	7 871	939	4 808	2 124
Buskerud	3 548	2 105	1 362	81	3 729	648	2 307	774
Vestfold	2 913	1 558	1 256	99	2 177	245	1 341	591
Telemark	1 854	1 202	607	45	2 585	527	1 606	452
Aust-Agder	865	514	322	29	1 237	230	677	330
Vest-Agder	1 215	720	444	51	1 928	354	1 080	494
Rogaland	7 364	3 734	3 322	308	4 557	629	2 885	1 043
Hordaland	2 822	1 710	1 040	71	5 062	1 101	3 135	826
Sogn og Fjordane	2 919	1 730	1 121	69	5 317	1 112	3 324	881
Møre og Romsdal	4 269	2 498	1 641	131	4 873	631	2 936	1 305
Sør-Trøndelag	4 808	3 002	1 672	134	5 172	545	3 054	1 574
Nord-Trøndelag	5 336	2 918	2 236	182	5 330	476	2 993	1 862
Nordland	3 789	2 155	1 491	143	3 952	456	2 268	1 228
Troms	1 418	927	461	31	2 183	278	1 355	551
Finmark	459	257	172	30	587	98	316	173
Agricultural area in use								
- 4 decares ²	183	120	54	9	191	47	79	65
5 - 49 "	8 903	6 332	2 478	94	7 477	2 970	4 147	359
50 - 99 "	13 172	8 314	4 610	248	13 643	2 895	9 233	1 516
100 - 199 "	21 512	12 384	8 508	620	23 849	2 560	15 291	5 999
200 - 299 "	11 922	6 223	5 240	459	13 233	1 000	7 586	4 648
300 - 499 "	6 702	3 285	3 095	322	7 843	508	4 196	3 140
500 - "	2 122	915	1 059	148	3 212	167	1 608	1 437
Engine power								
- 49 hp DIN	30 952	22 396	8 209	348	5 351	2 404	2 735	213
50 - 59 "	9 208	5 168	3 820	221	6 834	1 573	4 665	596
60 - 69 "	14 683	6 550	7 526	607	15 723	2 492	10 651	2 580
70 - 79 "	5 967	2 257	3 308	403	15 016	1 743	9 694	3 579
80 - 89 "	2 582	909	1 477	197	12 926	1 081	7 526	4 319
90 - 99 "	830	209	535	87	8 143	458	4 214	3 471
100 - "	293	84	170	39	5 454	395	2 654	2 404
Model year								
- 1969	20 763	16 691	3 940	132	660	464	171	25
1970 - 1979	31 452	17 216	13 458	777	6 985	2 662	3 900	424
1980 - 1989	11 344	3 483	7 026	835	36 720	5 615	24 266	6 839
1990 - 1994	659	117	436	106	11 415	667	6 642	4 105
1995 -	298	66	184	49	13 668	738	7 160	5 770
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	1 129	943	183	3	777	426	307	44
100 - 499 "	9 012	6 520	2 425	67	7 448	2 428	4 507	514
500 - 999 "	8 749	5 671	2 966	112	7 977	1 877	5 331	769
1 000 - 1 499 "	6 646	4 087	2 446	114	6 988	1 260	4 745	983
1 500 - 1 999 "	5 127	2 979	2 011	137	6 033	890	4 006	1 137
2 000 - 2 999 "	11 088	6 288	4 414	386	13 432	1 370	8 413	3 650
3 000 - 3 999 "	10 998	5 720	4 877	401	12 914	956	7 561	4 397
4 000 - "	11 766	5 363	5 723	681	13 878	939	7 270	5 669

¹ Information is missing for 379 tractors. ² Comprise mainly joint operations with milk production and holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

7.5. Holdings with two-wheeled tractor and motorized mower and number of two-wheeled tractors and motorized mowers, by county and various structural classifications

	Holdings with two-wheeled tractor		Number of two-wheeled tractors	Holdings with motorized mower		Number of motorized mowers
	Total	Of which also with four-wheeled tractor		Total	Of which also with four-wheeled tractor	
1979	17 108	6 081	17 723	..	..	..
1989	7 768	4 527	8 158	..	..	..
1999	2 842	2 159	2 986	21 985	21 121	23 423
1999						
County						
Østfold	34	29	34	67	66	75
Akershus and Oslo	52	42	58	197	183	207
Hedmark	32	28	32	596	590	607
Oppland	130	105	136	2 192	2 152	2 273
Buskerud	62	46	64	1 173	1 146	1 268
Vestfold	24	21	27	89	88	96
Telemark	153	139	159	910	891	971
Aust-Agder	56	42	57	252	243	264
Vest-Agder	123	91	123	580	544	621
Rogaland	246	194	260	1 404	1 346	1 473
Hordaland	598	387	633	4 645	4 378	5 016
Sogn og Fjordane	528	421	552	4 639	4 443	5 082
Møre og Romsdal	183	133	194	2 492	2 425	2 614
Sør-Trøndelag	92	70	96	978	957	1 000
Nord-Trøndelag	64	56	64	397	392	404
Nordland	267	203	285	884	826	938
Troms	169	138	182	415	396	434
Finnmark	29	14	31	75	55	82
Agricultural area in use						
- 4 decares ¹	33	16	36	51	45	59
5 - 49 "	1 331	778	1 404	5 903	5 204	6 288
50 - 99 "	738	648	767	6 616	6 487	7 104
100 - 199 "	516	494	540	6 798	6 770	7 215
200 - 299 "	156	155	165	1 933	1 932	2 040
300 - 499 "	55	55	61	590	589	619
500 - "	13	13	14	94	94	99
Holders² by age group						
Legal persons	32	28	37	96	90	119
- 29 years	108	85	117	1 010	980	1 092
30 - 39 "	500	420	527	4 236	4 141	4 539
40 - 49 "	783	636	826	6 331	6 164	6 715
50 - 59 "	721	561	752	5 952	5 744	6 308
60 - 69 "	507	337	526	3 482	3 264	3 716
70 - "	191	92	202	878	738	934
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	57	27	58	281	250	294
100 - 499 "	444	270	458	2 337	2 093	2 438
500 - 999 "	655	414	692	3 442	3 140	3 633
1 000 - 1 499 "	495	375	537	3 015	2 873	3 230
1 500 - 1 999 "	311	253	327	2 352	2 285	2 516
2 000 - 2 999 "	409	376	421	4 328	4 278	4 647
3 000 - 3 999 "	242	226	254	3 429	3 414	3 639
4 000 - "	229	218	240	2 801	2 788	3 027

¹ Comprise mainly joint operations with milk production and holdings in horticulture. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/ft1999_en/.

7.6. Holdings with combine harvester and number of combine harvesters, by model year, working width, county and various structural classifications

	Holdings with combine harvester			Number of combine harvesters					
	Total	Of which with share in combine harvester	Total	By model year			By working width in feet		
				-1979	1980-1989	1990-	-8	9-10	11-
1979.....	18 594	4 622	16 093	.	.	.	..	..	..
1989.....	18 299	3 279	16 671	.	.	.	..	..	..
1999.....	14 901	2 714	13 813	6 057	6 070	1 687	4 708	7 635	1 470
1999									
County									
Østfold.....	2 450	334	2 348	894	1 146	307	725	1 286	337
Akershus and Oslo.....	2 243	276	2 145	784	1 011	350	546	1 217	382
Hedmark.....	2 422	288	2 342	1 023	1 040	279	663	1 361	319
Oppland.....	1 504	317	1 374	734	521	119	605	691	78
Buskerud.....	1 393	298	1 255	609	500	145	511	679	64
Vestfold.....	1 320	231	1 223	483	575	165	403	702	119
Telemark.....	632	264	486	221	217	49	194	269	24
Aust-Agder.....	98	34	98	53	34	11	43	51	4
Vest-Agder.....	33	9	28	12	11	5	14	12	3
Rogaland.....	142	21	142	85	45	12	45	79	17
Hordaland.....	10	3	9	8	1	-	4	4	1
Sogn og Fjordane.....	13	3	12	9	3	-	10	2	-
Møre og Romsdal.....	184	56	158	106	47	5	76	75	8
Sør-Trøndelag.....	819	161	748	360	294	94	308	402	38
Nord-Trøndelag.....	1 596	406	1 412	655	612	145	545	791	76
Nordland.....	31	3	29	17	12	-	15	14	-
Troms.....	8	7	3	3	1	-	2	1	-
Finnmark.....	3	3	1	1	-	-	1	-	-
Agricultural area in use									
- 4 decares ¹	12	7	9	5	2	2	2	4	3
5 - 49 ".....	846	155	760	636	118	7	527	210	24
50 - 99 ".....	2 301	513	2 039	1 488	510	40	1 222	761	56
100 - 199 ".....	4 545	935	4 136	2 122	1 785	228	1 701	2 258	177
200 - 299 ".....	3 098	567	2 881	1 044	1 492	345	807	1 885	189
300 - 499 ".....	2 791	402	2 672	591	1 521	559	386	1 879	407
500 - ".....	1 308	135	1 316	169	642	505	63	639	615
Area of grain and oil-seeds									
Without any grain or oil-seeds.....	623	198	510	403	95	12	323	160	27
1 - 49 decares.....	1 514	377	1 313	1 047	246	19	869	408	36
50 - 99 ".....	2 987	689	2 654	1 757	807	89	1 413	1 154	87
100 - 199 ".....	4 693	871	4 345	1 947	2 087	312	1 559	2 576	211
200 - 299 ".....	2 458	321	2 366	588	1 386	393	408	1 737	222
300 - 499 ".....	1 897	201	1 873	261	1 111	501	127	1 309	437
500 - ".....	729	57	753	54	338	361	10	292	451
Total employment in agriculture and horticulture on the holding									
- 99 man-hours.....	250	43	224	177	46	1	141	73	10
100 - 499 ".....	3 627	677	3 314	2 044	1 128	142	1 632	1 543	140
500 - 999 ".....	2 942	480	2 763	1 244	1 269	250	1 006	1 565	193
1 000 - 1 499 ".....	1 729	284	1 613	568	815	230	436	1 000	177
1 500 - 1 999 ".....	1 171	181	1 118	368	556	195	271	686	162
2 000 - 2 999 ".....	1 872	323	1 758	596	840	323	427	1 024	307
3 000 - 3 999 ".....	1 475	349	1 327	499	610	218	390	752	186
4 000 - ".....	1 835	377	1 696	561	807	328	406	994	296

¹ Comprise mainly joint operations with milk production and holdings in horticulture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

7.7. Holdings with crop sprayer and number of crop sprayers, by model year, working width, county and various structural classifications. 1999

	Holdings with crop sprayer		Number of crop sprayers						
	Total	Of which with share in crop sprayer	Total	By model year			By working width in metres		
				-1979	1980-1989	1990-	-6	7-8	9-
Total	33 791	10 787	27 193	5 717	15 228	6 248	12 852	7 368	6 973
County									
Østfold	2 732	436	2 497	433	1 468	596	525	836	1 136
Akershus and Oslo	2 456	475	2 191	330	1 288	574	491	686	1 015
Hedmark	3 080	649	2 691	400	1 605	687	698	879	1 115
Oppland	3 113	1 049	2 461	484	1 418	559	1 152	754	556
Buskerud	2 276	650	1 877	444	1 041	391	725	654	498
Vestfold	1 916	273	1 770	348	1 004	417	327	581	861
Telemark	1 292	380	1 059	247	601	211	493	343	222
Aust-Agder	506	115	438	109	254	75	249	141	49
Vest-Agder	529	133	451	87	267	97	322	88	41
Rogaland	3 373	1 032	2 748	823	1 392	533	1 788	566	394
Hordaland	1 402	667	974	232	508	233	860	85	28
Sogn og Fjordane	1 581	771	1 076	220	554	302	871	134	72
Møre og Romsdal	2 330	1 186	1 585	337	945	304	1 202	270	113
Sør-Trøndelag	2 532	1 127	1 824	460	970	394	1 141	443	240
Nord-Trøndelag	2 820	1 049	2 182	440	1 192	550	958	677	547
Nordland	1 141	489	843	219	434	190	640	148	55
Troms	591	248	440	89	239	112	351	63	27
Finnmark	121	58	86	15	47	23	61	18	6
Agricultural area in use									
- 4 decares ¹	72	23	59	13	29	16	36	17	6
5 - 49 "	2 697	617	2 315	728	1 258	329	1 616	536	163
50 - 99 "	6 122	1 899	4 941	1 266	2 861	813	3 089	1 331	521
100 - 199 "	12 301	4 468	9 520	2 078	5 482	1 960	4 989	2 797	1 734
200 - 299 "	7 034	2 413	5 575	1 088	3 146	1 341	2 295	1 661	1 619
300 - 499 "	4 153	1 136	3 498	469	1 859	1 170	757	882	1 859
500 - "	1 412	231	1 286	74	594	618	70	144	1 072
Area of grain and oil-seeds									
Without any grain or oil-seeds	16 604	7 223	12 027	3 057	6 622	2 349	9 100	2 072	855
1 - 49 decares	2 922	655	2 539	724	1 421	394	1 354	827	358
50 - 99 "	3 953	871	3 448	816	1 979	653	1 328	1 377	743
100 - 199 "	5 195	1 091	4 575	739	2 719	1 117	861	2 012	1 702
200 - 299 "	2 523	512	2 241	231	1 300	709	168	731	1 341
300 - 499 "	1 877	335	1 697	129	896	673	38	308	1 352
500 - "	717	100	665	19	292	354	3	41	622
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	445	93	388	129	215	45	267	85	36
100 - 499 "	5 129	1 122	4 465	1 136	2 604	725	2 041	1 628	795
500 - 999 "	4 345	1 050	3 723	707	2 234	783	1 321	1 328	1 074
1 000 - 1 499 "	3 079	832	2 574	479	1 481	614	996	727	851
1 500 - 1 999 "	2 479	750	2 023	383	1 123	517	910	440	673
2 000 - 2 999 "	5 752	2 153	4 414	868	2 502	1 044	2 340	951	1 123
3 000 - 3 999 "	6 077	2 478	4 538	1 003	2 409	1 127	2 570	1 003	965
4 000 - "	6 485	2 309	5 068	1 011	2 662	1 394	2 407	1 205	1 456

¹ Comprise mainly joint operations with milk production and holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

7.8. Number of implements¹ for soil preparation, by county and various structural classifications. 1999

	Reversible ploughs	Conventional ploughs		Harrows with stiff/spring spikes		Rotary harrows
		1-3 shares	4 or more shares	Mounted to three-point linkage	Trailed	
Total	8 447	45 755	2 068	47 980	6 266	18 053
County						
Østfold	1 206	2 129	233	2 897	810	1 067
Akershus and Oslo	927	2 202	348	2 742	813	1 012
Hedmark	1 115	4 163	516	5 089	792	1 524
Oppland	884	5 356	180	6 027	481	1 541
Buskerud	542	2 719	134	3 086	339	1 094
Vestfold	632	1 551	172	2 270	299	728
Telemark	185	1 848	59	1 976	149	650
Aust-Agder	77	913	19	819	67	519
Vest-Agder	95	1 297	20	1 100	127	794
Rogaland	521	3 887	107	4 178	500	1 259
Hordaland	237	2 272	14	1 540	195	1 541
Sogn og Fjordane	217	2 486	15	1 966	223	1 596
Møre og Romsdal	249	3 206	33	2 870	328	1 141
Sør-Trøndelag	406	3 633	81	3 533	339	921
Nord-Trøndelag	774	3 629	86	4 113	375	681
Nordland	222	2 702	24	2 230	249	1 111
Troms	110	1 386	26	1 271	139	654
Finnmark	47	375	2	272	42	223
Agricultural area in use						
- 4 decares ²	16	99	4	107	11	46
5 - 49 "	687	7 141	64	6 107	940	2 185
50 - 99 "	969	11 548	132	10 474	1 160	4 084
100 - 199 "	1 925	16 592	440	17 094	1 362	6 378
200 - 299 "	1 822	7 173	472	8 762	849	2 994
300 - 499 "	2 003	2 755	556	4 353	1 100	1 720
500 - "	1 025	447	401	1 083	844	646
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	81	1 059	12	1 000	123	245
100 - 499 "	888	7 875	263	7 935	924	2 083
500 - 999 "	1 298	6 269	302	6 521	916	2 253
1 000 - 1 499 "	1 035	4 578	256	4 763	792	1 921
1 500 - 1 999 "	817	3 664	195	3 734	667	1 681
2 000 - 2 999 "	1 365	8 026	372	8 182	1 103	3 458
3 000 - 3 999 "	1 162	7 609	258	7 953	762	3 145
4 000 - "	1 801	6 675	410	7 893	980	3 266

¹ Implements for four-wheeled tractors. ² Comprise mainly joint operations with milk production and holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

7.9. Number of implements¹ for harvesting fodder crops, by county and various structural classifications. 1999

	Flail forage harvesters	Mowers with disc/rotor	Hay tedders/swath turners	Round balers	Round bale wrappers	Unloading wagons	Pickup-wagons
Total	34 354	20 379	26 184	6 087	4 870	20 663	4 695
County							
Østfold	539	559	871	187	119	382	78
Akershus and Oslo	513	706	1 114	231	156	413	103
Hedmark	1 395	1 971	2 509	521	376	1 121	539
Oppland	2 795	4 049	4 977	951	748	1 503	1 221
Buskerud	985	1 281	1 913	226	190	501	277
Vestfold	311	351	563	116	76	222	46
Telemark	495	1 114	1 529	178	155	290	204
Aust-Agder	414	621	914	118	110	257	55
Vest-Agder	928	798	1 337	155	149	526	66
Rogaland	4 422	996	2 591	172	138	3 625	219
Hordaland	3 773	575	1 122	131	105	943	107
Sogn og Fjordane	3 748	794	1 426	308	245	1 119	219
Møre og Romsdal	4 050	1 164	1 256	562	390	2 508	223
Sør-Trøndelag	2 902	1 650	1 442	632	491	2 192	477
Nord-Trøndelag	2 735	1 294	880	556	471	2 303	333
Nordland	2 679	1 423	847	623	551	1 784	312
Troms	1 381	663	546	314	305	800	137
Finnmark	291	371	345	105	94	174	81
Agricultural area in use							
- 4 decares ²	81	45	33	19	18	76	21
5 - 49 "	2 880	2 419	4 076	118	82	479	175
50 - 99 "	7 462	4 408	6 460	637	513	2 432	759
100 - 199 "	13 898	7 094	8 665	2 308	1 877	8 954	1 712
200 - 299 "	6 744	3 913	4 125	1 667	1 383	5 795	1 173
300 - 499 "	2 735	1 961	2 166	987	769	2 455	666
500 - "	555	539	659	351	228	472	189
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	123	215	306	16	12	24	7
100 - 499 "	1 416	1 992	3 084	180	131	364	227
500 - 999 "	2 718	2 253	3 559	313	229	724	321
1 000 - 1 499 "	3 117	2 098	3 134	395	319	1 078	382
1 500 - 1 999 "	2 919	1 864	2 607	443	364	1 219	379
2 000 - 2 999 "	7 842	4 065	4 978	1 383	1 163	4 608	963
3 000 - 3 999 "	8 419	3 853	4 263	1 581	1 259	6 268	1 102
4 000 - "	7 800	4 040	4 254	1 776	1 392	6 378	1 314

¹ Implements for four-wheeled tractors. ² Comprise mainly joint operations with milk production and holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

7.10. Number of miscellaneous implements¹, by county and various structural classifications. 1999

	Centrifugal spreaders for commercial fertilizer	Combination drills (grain- fertilizer)	Tank spreaders for slurry	Fully automatic potato harvesters	Flatbed trailers for tractor, by total weight		Front loaders
					Up to 6 metric tons	6 metric tons or more	
Total	44 736	16 356	23 527	2 431	63 012	12 489	48 927
County							
Østfold	2 156	2 631	520	193	3 582	1 449	2 579
Akershus and Oslo	2 045	2 325	456	107	3 319	1 501	2 716
Hedmark	3 329	2 738	1 340	533	6 429	1 980	5 227
Oppland	4 878	1 484	2 632	249	7 309	1 169	5 860
Buskerud	2 271	1 497	598	91	3 566	839	3 058
Vestfold	1 568	1 613	294	249	2 466	890	2 532
Telemark	1 560	636	312	58	2 255	330	2 085
Aust-Agder	809	96	275	51	936	121	1 180
Vest-Agder	1 286	71	655	22	1 443	231	1 648
Rogaland	4 601	404	3 552	235	6 211	675	3 848
Hordaland	3 042	65	1 516	21	3 494	289	1 412
Sogn og Fjordane	2 977	63	1 786	26	3 128	244	1 718
Møre og Romsdal	3 269	182	2 507	41	3 892	504	2 420
Sør-Trøndelag	3 262	905	2 254	88	4 731	746	3 569
Nord-Trøndelag	3 370	1 391	2 241	260	4 896	779	3 933
Nordland	2 582	173	1 730	126	3 163	460	2 830
Troms	1 313	64	630	75	1 666	191	1 767
Finnmark	417	20	230	10	528	92	545
Agricultural area in use							
- 4 decares ²	87	14	78	3	179	36	150
5 - 49 "	5 272	875	607	162	7 953	353	5 064
50 - 99 "	10 177	2 737	3 160	303	13 869	929	9 328
100 - 199 "	15 825	5 221	10 273	634	21 969	3 314	16 882
200 - 299 "	7 970	3 375	6 036	496	11 370	3 046	9 605
300 - 499 "	4 125	2 824	2 731	510	5 862	2 943	5 743
500 - "	1 280	1 309	644	324	1 811	1 867	2 156
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	542	302	37	11	1 090	80	693
100 - 499 "	5 039	3 894	493	211	9 178	1 175	6 054
500 - 999 "	5 515	3 116	897	251	8 330	1 498	5 905
1 000 - 1 499 "	4 737	1 810	1 159	235	6 411	1 247	4 848
1 500 - 1 999 "	3 981	1 263	1 498	223	5 169	1 106	4 086
2 000 - 2 999 "	8 732	2 117	5 619	472	11 070	2 186	9 049
3 000 - 3 999 "	8 274	1 748	6 862	413	10 782	2 101	8 690
4 000 - "	7 917	2 105	6 962	616	10 983	3 095	9 604

¹ Implements for four-wheeled tractors. ² Comprise mainly joint operations with milk production and holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

7.11. Holdings executing contracting work for others for payment in the last 12 months, by county and various structural classifications. 1999

	Holdings executing contracting work for others, total	By kind of contracting work								
		Ploughing/harrowing	Seeding/planting	Spraying	Treshing with combine harvester	Mowing of coarse fodder plants with mower/flail forage harvester	Bailing/packing of straw/coarse fodder	Spreading of manure	Hauling timber with farm tractor	Other contracting work with farm tractor (e.g. snow removal)
Total	14 067	1 563	1 513	1 979	2 580	2 856	3 933	956	1 706	8 143
County										
Østfold	867	110	168	209	419	102	155	32	125	382
Akershus and Oslo	891	107	115	196	358	106	185	27	90	553
Hedmark	1 315	164	183	301	385	219	287	51	165	734
Oppland	1 596	165	164	186	220	388	581	107	186	943
Buskerud	920	91	111	126	236	125	209	26	145	565
Vestfold	673	99	106	155	315	66	115	35	63	356
Telemark	622	61	57	80	112	94	164	23	111	381
Aust-Agder	321	27	31	19	21	64	105	14	65	219
Vest-Agder	430	60	68	51	12	133	146	74	101	235
Rogaland	797	141	112	113	46	267	175	151	34	432
Hordaland	665	83	46	72	3	131	96	83	100	475
Sogn og Fjordane	717	67	41	57	1	143	179	78	81	415
Møre og Romsdal	924	85	64	91	31	227	330	71	69	577
Sør-Trøndelag	960	83	77	99	157	224	321	51	141	535
Nord-Trøndelag	1 126	105	107	146	257	282	389	91	158	517
Nordland	738	69	35	58	6	183	288	29	47	485
Troms	388	29	20	17	1	71	164	8	19	254
Finnmark	117	17	8	3	-	31	44	5	6	85
Agricultural area in use										
- 4 decares ¹	29	10	13	7	3	15	15	10	3	16
5 - 49 "	840	66	41	44	43	92	99	21	117	609
50 - 99 "	2 047	150	121	148	162	296	404	95	268	1 363
100 - 199 "	5 061	525	466	555	628	1 067	1 464	387	613	2 902
200 - 299 "	3 261	398	380	490	652	764	1 068	248	396	1 775
300 - 499 "	2 048	287	312	458	710	456	656	141	226	1 048
500 - "	781	127	180	277	382	166	227	54	83	430
Holders² by age group										
Legal persons	69	22	21	15	18	23	22	14	9	42
- 29 years	1 039	157	147	115	106	304	402	104	150	622
30 - 39 "	3 917	489	467	588	602	977	1 277	348	516	2 244
40 - 49 "	4 461	504	487	669	871	874	1 251	291	524	2 527
50 - 59 "	3 376	287	289	455	725	540	783	159	382	1 949
60 - 69 "	1 130	96	96	127	239	130	191	40	118	715
70 - "	75	8	6	10	19	8	7	-	7	44
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	132	16	12	6	17	15	17	1	22	95
100 - 499 "	1 283	127	127	159	341	117	138	20	188	794
500 - 999 "	1 446	156	149	204	440	135	234	33	180	842
1 000 - 1 499 "	1 295	145	151	205	338	182	270	41	188	763
1 500 - 1 999 "	1 193	107	135	180	251	197	307	66	170	709
2 000 - 2 999 "	2 933	344	300	403	424	685	948	239	356	1 714
3 000 - 3 999 "	2 885	302	288	362	317	726	981	268	335	1 615
4 000 - "	2 900	366	351	460	452	799	1 038	288	267	1 611

¹ Comprise mainly joint operations with milk production and holdings in horticulture. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

7.12. Holdings with hiring machinery and operator from others for payment in the last 12 months, by county and various structural classifications. 1999

	Holdings hiring machinery and operator, total	By kind of hired work								
		Ploughing/harrowing	Seeding/planting	Spraying	Threshing with combine harvester	Mowing of coarse fodder plants with mower/flail forage harvester	Bailing/packing of straw/coarse fodder	Spreading of manure	Hauling timber with farm tractor	Other contracting work with farm tractor (e.g. snow removal)
Total	35 065	2 944	3 798	5 857	7 128	11 615	24 864	3 143	1 364	2 602
County										
Østfold	1 704	133	268	552	838	336	700	99	172	99
Akershus and Oslo	1 528	126	238	426	752	325	669	70	75	130
Hedmark	3 049	259	445	851	1 011	687	1 759	241	135	259
Oppland	4 425	285	484	611	654	1 182	3 630	509	184	326
Buskerud	1 911	146	206	265	589	449	1 239	100	143	181
Vestfold	1 392	112	187	327	858	276	558	99	61	128
Telemark	1 210	66	115	151	455	197	666	60	68	128
Aust-Agder	751	52	59	49	154	192	526	45	56	69
Vest-Agder	1 251	120	184	139	105	591	1 023	166	73	72
Rogaland	4 626	744	696	935	540	2 686	3 821	806	51	302
Hordaland	1 525	146	114	171	9	585	1 082	185	45	109
Sogn og Fjordane	1 615	95	87	114	8	446	1 156	220	55	128
Møre og Romsdal	2 244	143	128	220	73	792	1 867	141	28	136
Sør-Trøndelag	2 558	152	173	348	487	864	2 012	114	85	163
Nord-Trøndelag	2 908	197	238	575	573	1 186	2 207	181	106	141
Nordland	1 509	96	85	85	21	547	1 223	58	20	154
Troms	646	53	53	31	1	197	540	36	7	61
Finnmark	213	19	38	7	-	77	186	13	0	16
Agricultural area in use										
- 4 decares ¹	34	5	4	4	1	8	13	10	3	10
5 - 49 "	5 417	706	882	924	1 313	2 197	3 199	449	228	564
50 - 99 "	8 404	710	912	1 418	1 872	2 817	5 674	782	345	623
100 - 199 "	11 901	833	1 088	1 919	2 027	3 763	9 020	1 072	389	748
200 - 299 "	5 714	405	480	977	1 058	1 737	4 429	483	202	342
300 - 499 "	2 863	228	322	498	683	864	2 051	258	148	247
500 - "	732	57	110	117	174	229	478	89	49	68
Holders² by age group										
Legal persons	186	23	38	33	47	69	121	36	9	32
- 29 years	1 984	199	242	362	348	702	1 444	217	64	155
30 - 39 "	7 761	633	814	1 338	1 400	2 586	5 704	703	278	625
40 - 49 "	10 411	835	1 008	1 674	2 072	3 335	7 522	949	436	767
50 - 59 "	9 251	737	970	1 433	1 880	3 024	6 587	755	380	652
60 - 69 "	4 465	384	529	768	1 023	1 541	2 992	392	157	290
70 - "	1 007	133	197	249	358	358	494	91	40	81
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	914	151	247	300	465	309	355	37	30	61
100 - 499 "	5 177	544	830	1 408	2 293	1 565	2 305	258	267	437
500 - 999 "	4 494	494	646	834	1 092	1 610	2 752	375	217	387
1 000 - 1 499 "	3 686	362	412	566	567	1 363	2 646	422	168	309
1 500 - 1 999 "	2 900	242	300	380	359	1 016	2 218	337	134	242
2 000 - 2 999 "	6 281	448	529	864	699	2 067	5 048	651	214	410
3 000 - 3 999 "	5 988	348	403	803	700	1 903	4 968	511	153	344
4 000 - "	5 625	355	431	702	953	1 782	4 572	552	181	412

¹ Comprise mainly joint operations with milk production and holdings in horticulture. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

7.13. Holdings which pooled/exchanged machinery without payment in the last 12 months, by county and various structural classifications. 1999

	Holdings which pooled/exchanged machinery, total	By kind of pooled/exchanged work								
		Ploughing/harrowing	Seeding/planting	Spraying	Threshing with combine harvester	Mowing of coarse fodder plants with mower/flail forage harvester	Bailing/packing of straw/coarse fodder	Spreading of manure	Hauling timber with farm tractor	Other contracting work with farm tractor (e.g. snow removal)
Total	20 284	5 837	5 959	5 312	2 453	6 881	5 632	4 692	1 029	3 607
County										
Østfold	1 107	415	439	459	406	160	145	130	65	150
Akershus and Oslo	999	372	356	427	314	214	220	95	43	148
Hedmark	1 978	563	597	605	413	626	494	356	87	379
Oppland	2 159	459	590	474	218	856	820	476	90	440
Buskerud	1 068	314	394	312	257	282	213	142	44	180
Vestfold	668	215	277	232	170	68	70	73	25	137
Telemark	660	151	160	150	105	228	207	98	33	105
Aust-Agder	331	91	93	70	20	117	131	79	23	55
Vest-Agder	507	145	131	101	10	228	179	156	31	67
Rogaland	1 490	438	419	374	29	649	138	439	39	303
Hordaland	1 093	377	267	250	4	353	149	404	75	234
Sogn og Fjordane	1 275	399	270	258	4	423	325	391	96	239
Møre og Romsdal	1 308	372	300	332	41	453	503	349	51	221
Sør-Trøndelag	1 593	387	450	408	153	561	523	362	87	304
Nord-Trøndelag	1 916	499	619	505	298	683	579	581	163	307
Nordland	1 220	362	347	219	9	605	484	335	49	200
Troms	681	200	167	100	2	270	342	162	23	108
Finnmark	231	78	83	36	-	105	110	64	5	30
Agricultural area in use										
- 4 decares ¹	29	12	11	7	1	13	10	14	1	7
5 - 49 "	2 590	721	702	517	369	996	503	428	132	480
50 - 99 "	3 993	1 171	1 141	1 023	429	1 212	984	863	187	679
100 - 199 "	7 110	2 006	2 125	1 931	675	2 368	2 086	1 814	368	1 207
200 - 299 "	3 905	1 110	1 118	1 006	446	1 442	1 263	961	199	725
300 - 499 "	2 087	628	667	616	381	703	650	500	117	372
500 - "	570	189	195	212	152	147	136	112	25	137
Holders² by age group										
Legal persons	100	35	29	28	14	30	27	37	3	16
- 29 years	1 472	553	543	407	170	611	458	426	106	299
30 - 39 "	5 165	1 614	1 565	1 362	598	1 908	1 615	1 303	317	984
40 - 49 "	6 523	1 862	1 853	1 628	731	2 164	1 826	1 488	333	1 226
50 - 59 "	4 914	1 237	1 343	1 335	623	1 502	1 223	1 048	185	786
60 - 69 "	1 801	476	542	484	249	559	439	350	73	252
70 - "	309	60	84	68	68	107	44	40	12	44
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	433	112	161	142	130	157	71	22	16	46
100 - 499 "	2 608	771	941	932	669	643	445	217	111	412
500 - 999 "	2 472	787	765	723	410	718	531	414	139	459
1 000 - 1 499 "	2 001	644	590	521	235	679	538	437	106	340
1 500 - 1 999 "	1 654	516	466	403	181	548	473	405	79	277
2 000 - 2 999 "	3 791	1 040	1 006	857	260	1 383	1 205	1 084	215	677
3 000 - 3 999 "	3 776	1 028	1 039	876	250	1 432	1 218	1 083	174	676
4 000 - "	3 549	939	991	858	318	1 321	1 151	1 030	189	720

¹ Comprise mainly joint operations with milk production and holdings in horticulture. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

7.14. Holdings with irrigation installations¹, by capacity of irrigation system, agricultural area which can be irrigated, county and various structural classifications

	Holdings with irrigation installations, total	By capacity in decares per holding						Agricultural area which can be irrigated, total
		-24 decares	25-49 decares	50-74 decares	75-99 decares	100- 199 decares	200- decares	
1979 ²	10 053	3 027	2 165	1 530	719	1 473	746	688 146
1989	11 138	2 997	2 241	1 848	923	2 054	1 075	906 702
1999	12 466	2 253	2 276	2 036	1 146	2 863	1 892	1 343 963
1999								
County								
Østfold	667	56	58	41	47	196	269	124 718
Akershus and Oslo	468	76	35	56	29	107	165	81 687
Hedmark	1 256	123	106	153	97	302	475	252 424
Oppland	2 438	261	466	395	286	694	336	266 681
Buskerud	1 257	181	245	220	126	323	162	132 612
Vestfold	829	82	74	94	81	277	221	123 251
Telemark	626	130	192	118	46	108	32	42 422
Aust-Agder	505	125	131	103	48	76	22	33 386
Vest-Agder	497	130	107	93	45	99	23	33 298
Rogaland	668	109	96	125	75	191	72	61 643
Hordaland	727	279	209	126	46	60	7	31 126
Sogn og Fjordane	1 435	392	373	316	161	185	8	75 515
Møre og Romsdal	306	73	84	52	20	61	16	20 358
Sør-Trøndelag	204	52	25	46	10	56	15	16 453
Nord-Trøndelag	273	75	30	53	15	59	41	24 998
Nordland	156	46	22	27	9	36	16	12 570
Troms	103	52	16	10	3	15	7	6 030
Finnmark	51	11	7	8	2	18	5	4 791
Agricultural area in use								
- 4 decares ³	28	28	.	.	.	.	.	76
5 - 49 "	2 155	1 358	797	.	.	.	.	45 615
50 - 99 "	2 458	463	735	893	367	.	.	116 951
100 - 199 "	3 861	299	584	799	563	1 616	.	330 950
200 - 299 "	2 000	63	123	249	163	839	563	281 264
300 - 499 "	1 332	33	32	83	45	345	794	297 518
500 - "	632	9	5	12	8	63	535	271 589
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	141	80	35	15	6	4	1	4 632
100 - 499 "	1 278	448	333	211	104	154	28	66 316
500 - 999 "	1 424	480	300	205	93	251	95	95 918
1 000 - 1 499 "	1 288	317	307	205	100	213	146	105 865
1 500 - 1 999 "	1 099	251	273	175	64	179	157	101 694
2 000 - 2 999 "	2 373	312	486	454	253	526	342	254 193
3 000 - 3 999 "	2 166	161	288	392	287	690	348	263 701
4 000 - "	2 697	204	254	379	239	846	775	451 644

¹ Not included irrigation installations in greenhouses. ² Irrigated area were not reported for 393 holdings. ³ Comprise mainly joint operations with milk production and holdings in horticulture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.

More information: http://www.ssb.no/jt1999_en/.

7.15. Holdings with irrigation installations¹, by type of irrigation equipment, type of water source, county and various structural classifications. 1999

	Holdings with irrigation installations, total	By type of irrigation equipment			By type of water source		
		Mobile irrigator	Pipe/hose with sprinklers	Drip irrigation	River, stream etc.	Lake, pond	Groundwater
Total	12 466	5 926	7 968	673	8 401	4 081	811
County							
Østfold	667	472	290	24	323	349	39
Akershus and Oslo	468	294	211	46	262	197	43
Hedmark	1 256	868	530	14	793	502	63
Oppland	2 438	1 443	1 549	24	1 791	699	85
Buskerud	1 257	737	728	49	896	356	49
Vestfold	829	599	418	61	404	386	124
Telemark	626	248	379	66	383	226	62
Aust-Agder	505	184	400	15	277	264	15
Vest-Agder	497	125	393	35	340	175	31
Rogaland	668	272	405	26	413	268	41
Hordaland	727	67	606	170	539	156	81
Sogn og Fjordane	1 435	258	1 255	106	1 216	205	98
Møre og Romsdal	306	63	249	8	269	29	16
Sør-Trøndelag	204	84	134	6	164	36	10
Nord-Trøndelag	273	133	184	13	89	177	17
Nordland	156	38	117	8	121	32	11
Troms	103	21	85	2	87	11	11
Finnmark	51	20	35	-	34	13	15
Agricultural area in use							
- 4 decares ²	28	2	26	4	13	9	7
5 - 49 "	2 155	170	1 917	287	1 352	656	262
50 - 99 "	2 458	723	1 967	156	1 671	731	169
100 - 199 "	3 861	1 921	2 530	135	2 758	1 182	176
200 - 299 "	2 000	1 417	945	45	1 382	675	99
300 - 499 "	1 332	1 098	457	34	850	522	63
500 - "	632	595	126	12	375	306	35
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	141	23	121	-	81	53	14
100 - 499 "	1 278	409	947	38	755	484	96
500 - 999 "	1 424	494	1 013	71	899	476	116
1 000 - 1 499 "	1 288	502	872	75	854	404	93
1 500 - 1 999 "	1 099	434	726	75	719	351	86
2 000 - 2 999 "	2 373	1 133	1 480	147	1 666	751	140
3 000 - 3 999 "	2 166	1 204	1 295	94	1 579	626	109
4 000 - "	2 697	1 727	1 514	173	1 848	936	157

¹ Not included irrigation installations in greenhouses. ² Comprise mainly joint operations with milk production and holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

8. Education, employment and supplementary industries

8.1. Education

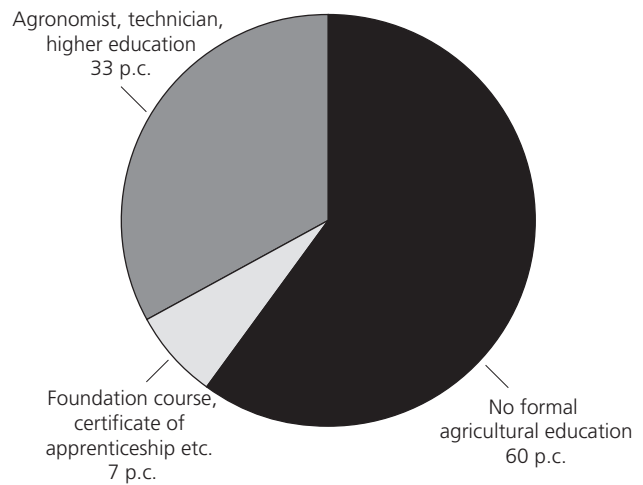
In 1999, at 40 per cent of holdings with natural person as holder, the holder and/or spouse/cohabitant had agricultural education. In 1979 and 1989 the corresponding per cents were 24 and 31 respectively. In 1999, the most common types of agricultural education were agronomist, agricultural technician or other higher education. Four out of five with agricultural education had such education while one out of five had completed foundation course, certificate of apprenticeship, or such.

The number of holdings where the holder and/or spouse/cohabitant was an agronomist, technician or had other higher agricultural education, increased with the size of agricultural area in use, excluding holdings with less than 5 decares of agricultural area. The latter mainly applied to horticultural holdings where many of the holders were probably educated as gardeners.

The 1999 Agricultural Census has been linked with Statistics Norway's register of people's highest education. In this linkage, information on spouse/cohabitant is retrieved from official population registers. From the responses given at the census questionnaires, the census covers about 55 800 holders with spouse/cohabitant. When information from official registers are used, we have about 52 200 holders with spouse/cohabitant. Thus there were 3 600 cohabitants with no code registered for highest education.

At 22 per cent of the holdings, the holder and/or spouse/cohabitant had education at university or college level. At 66 per cent of the holdings, highest education completed was sixth-form college/vocational training. 12 per cent of the holdings had neither a holder nor spouse/cohabitant with education beyond compulsory primary/junior secondary school.

Figure 8.1. Holdings, by highest level of agricultural education completed by holder and/or spouse/cohabitant. The whole country. 1999. Per cent



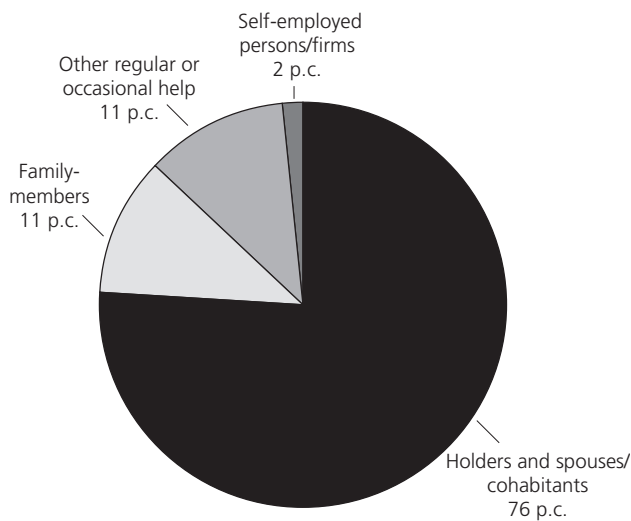
8.2. Labour input at the holdings

Aggregate labour input in agriculture and horticulture from 1 August 1998 to 31 July 1999 was 151.4 million man-hours. When converted to man-years, this is equivalent to 80 800 man-years (1 man-year is equal to 1 875 hours worked). Labour input is by holders, spouses/cohabitants of holders, family members, other regular or occasional help and self-employed persons or firms. Labour input in supplementary industries and forestry on the holding comes in addition.

Holders and spouses/cohabitants worked 76 per cent of labour input in agriculture and horticulture. Breakdown of the remaining percentage was; 11 per cent by family members and other permanent and casual workers respectively and barely 2 per cent by self-employed persons. Of the total labour input in agriculture and horticulture, three quarters of the work was done by men and one quarter by women. Work done by the self-employed is not included here. Average labour input per holding in agriculture and horticulture was 2 141 man-hours.

In 1998-99, 88 per cent of altogether 125 800 holders and spouses/cohabitants worked at the holdings. Forestry and supplementary industry is included here. 37 900 holders and spouses/cohabitants worked 1 500 hours or more at the holding. The corresponding figure from the 1989 census was 50 200.

Figure 8.2. Labour input in agriculture and horticulture, by type of labour. The whole country. 1998-1999. Per cent



8.3. Labour input off the holding for holders and spouses/cohabitants

53 per cent of holders had work off the holding in 1998-99. Corresponding percentage for spouses/cohabitants was 59. In 1988-1989 respectively 56 per cent of holders and 51 per cent of spouses/cohabitants had work off the holding. Average labour input off the holding for holders with such work was 1 400 hours both in 1988-89 and in 1998-99. Figures for spouses/cohabitants were respectively 1 100 and 1 300 hours.

8.4. Hiring of self-employed persons/firms

For the first time in an agricultural census, questions were asked about agricultural and horticultural work done by self-employed persons or firms. Between 1 August 1998 and 31 July 1999, this group carried out 1 300 man-years at the holdings included in the census. 39 per cent of this was related to ongoing operation/production while the rest was for maintenance of farm buildings, construction of new farm buildings as well as drainage/reclamation.

Figure 8.3. Holdings and man-years in agriculture and horticulture, by man-years per holding. The whole country. 1998-1999. Per cent

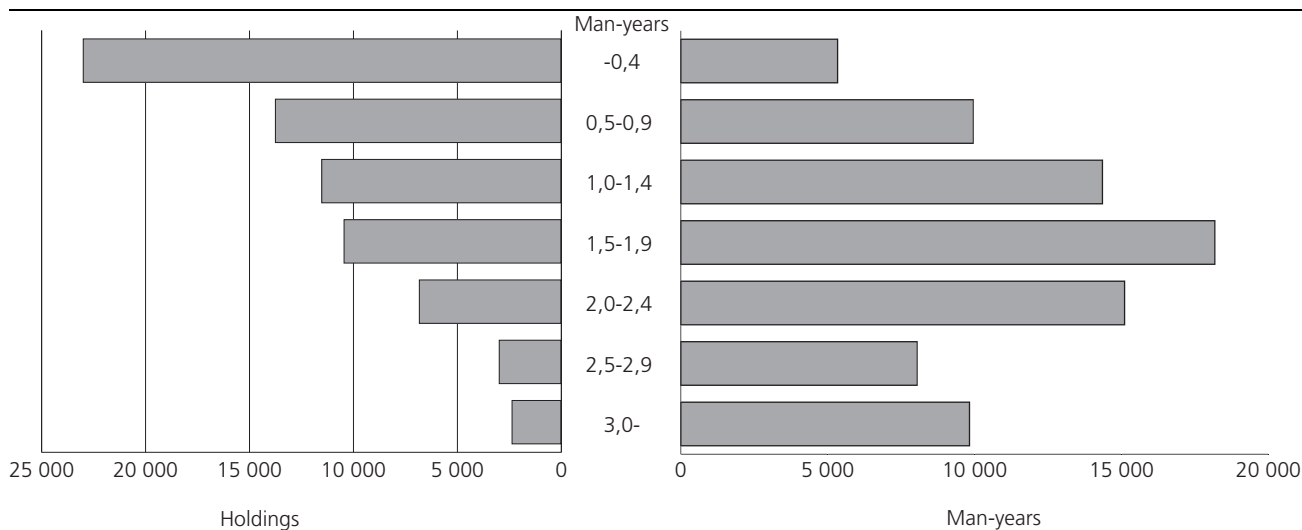
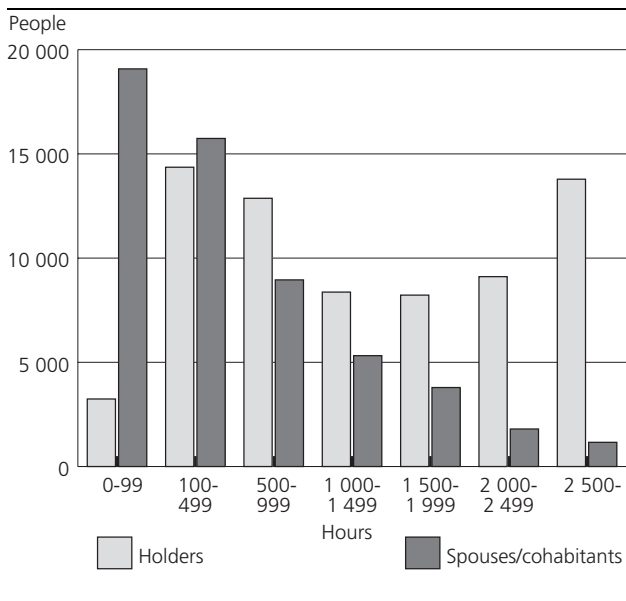


Figure 8.4. Holders and spouses/cohabitants, by labour input at the holding. The whole country. 1998 - 1999

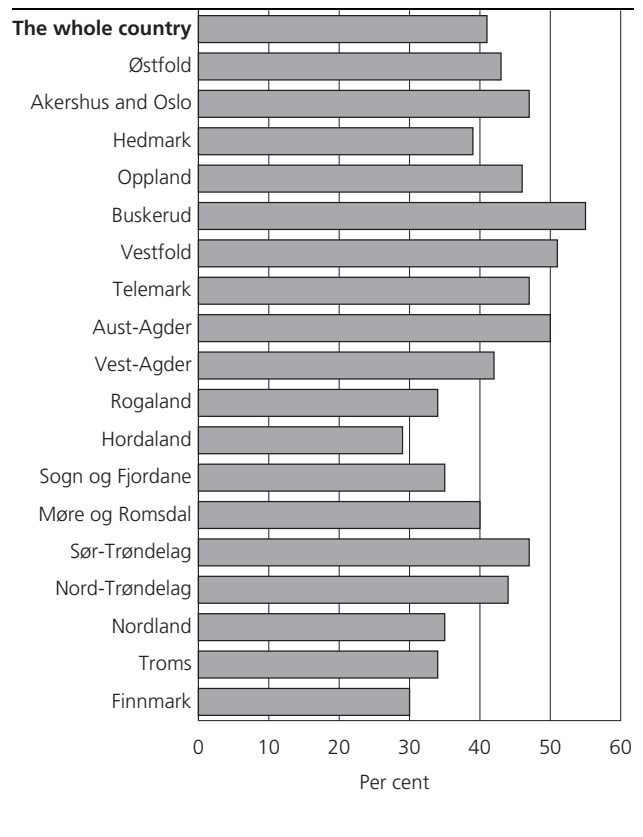


8.5. Supplementary industries

Supplementary industry is activity carried out by the holder and/or spouse/cohabitant, utilising the holdings' area, buildings and/or machines. Supplementary industries must provide income and/or employment for the holder, spouse/cohabitant and/or members of their family. Supplementary industry is widely defined and thus encompasses activity requiring great effort from the holder and business activity normally requiring little effort. An example of the latter is the leasing of agricultural area, leasing of sites, etc.

Altogether 29 100 holdings or 41 per cent of the holdings stated that they were engaged in supplementary industry in 1999. The most widespread supplementary industry was services contracted involving tractors, harvesters, etc., carried out by almost half of the holdings. Next comes leasing of agricultural area and hiring out of hunting or fishing rights. In 1998-99, labour input in supplementary industries constituted about 4 350 man-years. This was equivalent to an average of 281 hours per holding with supplementary industry.

Figure 8.5. Percentage of holdings with supplementary industry, by county. 1999



8.1. Holdings with natural person as holder¹, by highest level of completed education and agricultural education for holder and spouse/cohabitant, county and various structural classifications

	Holdings with natural person as holder, total	By highest level of completed education for holder or spouse/cohabitant			By highest level of agricultural education for holder or spouse/cohabitant		
		Compulsory primary and lower secondary school	Upper secondary school	College or university	No formal agricultural education	Foundation course, certificate of apprenticeship etc.	Agronomist, technician, higher education
1979	124 408	..	..	..	94 839	29 569	
1989	98 610	..	..	..	67 657	30 953	
1999	69 959	8 624	46 013	15 322	41 824	5 042	23 093
1999							
County							
Østfold	3 576	300	2 359	917	1 775	191	1 610
Akershus and Oslo	3 448	335	2 151	962	1 835	209	1 404
Hedmark	5 917	849	3 621	1 447	3 446	375	2 096
Oppland	6 943	939	4 543	1 461	4 177	487	2 279
Buskerud	3 799	347	2 441	1 011	2 099	308	1 392
Vestfold	2 440	185	1 571	684	1 256	187	997
Telemark	2 594	292	1 633	669	1 764	192	638
Aust-Agder	1 245	100	844	301	710	92	443
Vest-Agder	1 979	247	1 317	415	1 423	102	454
Rogaland	6 108	804	4 311	993	3 471	540	2 097
Hordaland	5 535	686	3 699	1 150	3 769	321	1 445
Sogn og Fjordane	5 246	676	3 480	1 090	3 636	266	1 344
Møre og Romsdal	4 961	583	3 362	1 016	3 244	301	1 416
Sør-Trøndelag	4 744	563	3 283	898	2 520	591	1 633
Nord-Trøndelag	4 942	452	3 333	1 157	2 337	465	2 140
Nordland	3 796	703	2 421	672	2 453	243	1 100
Troms	2 036	412	1 272	352	1 451	137	448
Finnmark	650	151	372	127	458	35	157
Agricultural area in use							
- 4 decares ²	272	20	194	58	131	31	110
5 - 49 "	13 697	2 559	8 106	3 032	11 022	774	1 901
50 - 99 "	16 672	2 548	10 673	3 451	12 116	1 144	3 412
100 - 199 "	22 228	2 456	15 223	4 549	12 429	1 788	8 011
200 - 299 "	10 331	734	7 347	2 250	4 184	876	5 271
300 - 499 "	5 227	264	3 535	1 428	1 632	367	3 228
500 - "	1 532	43	935	554	310	62	1 160
Holders¹ by gender							
Males	60 914	7 401	40 401	13 112	35 566	4 488	20 860
Females	9 045	1 223	5 612	2 210	6 258	554	2 233
Holders¹ by age group							
- 29 years	3 656	179	2 974	503	1 940	452	1 264
30 - 39 "	14 267	568	10 190	3 509	6 883	1 367	6 017
40 - 49 "	20 447	1 295	13 537	5 615	11 851	1 255	7 341
50 - 59 "	19 276	2 627	12 448	4 201	12 385	1 204	5 687
60 - 69 "	9 981	2 794	5 843	1 344	6 914	639	2 428
70 - "	2 332	1 161	1 021	150	1 851	125	356
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	1 775	312	1 066	397	1 436	90	249
100 - 499 "	11 348	1 552	6 956	2 840	8 567	635	2 146
500 - 999 "	10 547	1 403	6 437	2 707	7 530	613	2 404
1 000 - 1 499 "	8 010	1 111	4 978	1 921	5 388	544	2 078
1 500 - 1 999 "	6 123	848	3 923	1 352	3 822	477	1 824
2 000 - 2 999 "	11 977	1 614	8 096	2 267	6 627	1 023	4 327
3 000 - 3 999 "	10 500	1 063	7 427	2 010	4 846	894	4 760
4 000 - "	9 679	721	7 130	1 828	3 608	766	5 305

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ² Comprise mainly holdings in horticulture.

Source: Census of Agriculture and Forestry 1979, Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway.
More information: http://www.ssb.no/ft1999_en/.

8.2. Labour input in agriculture and horticulture, forestry and other supplementary industries on the holding, by county and various structural classifications. 1 August 1998-31 July 1999. 1 000 man-hours

	Labour input, total	In agriculture and horticulture					In forestry ²	In supplementary industries
		Total	Holders ¹ and spouses/cohabitants	Family members	Other regular or occasional help	Self-employed persons/firms		
Total	165 613,0	151 441,7	115 071,5	16 772,6	17 134,7	2 462,9	6 002,8	8 168,5
County								
Østfold	6 708,0	5 842,1	4 313,1	567,7	790,0	171,3	361,7	504,2
Akershus and Oslo	6 668,5	5 697,9	4 022,0	602,0	912,3	161,6	327,9	642,7
Hedmark	12 369,3	11 128,6	7 968,3	1 184,2	1 697,3	278,9	600,8	639,9
Oppland	17 459,2	16 019,2	12 188,9	1 754,4	1 810,4	265,5	600,3	839,7
Buskerud	7 555,1	6 409,9	4 614,2	688,5	981,8	125,5	523,1	622,1
Vestfold	5 090,5	4 388,9	2 865,4	395,9	1 005,4	122,2	286,8	414,7
Telemark	4 081,2	3 399,6	2 633,2	339,4	375,2	51,9	366,1	315,5
Aust-Agder	2 455,1	2 061,8	1 496,1	206,9	324,3	34,5	214,6	178,7
Vest-Agder	3 864,9	3 405,8	2 697,4	353,4	302,9	52,1	254,1	205,0
Rogaland	18 451,7	17 678,1	13 340,3	2 054,1	1 977,9	305,8	183,9	589,7
Hordaland	12 242,8	11 451,3	8 902,1	1 433,7	1 011,7	103,7	315,7	475,8
Sogn og Fjordane	12 906,2	12 080,5	9 471,9	1 680,8	810,9	116,9	301,8	523,9
Møre og Romsdal	12 811,4	11 973,6	9 362,2	1 487,7	999,0	124,7	307,6	530,2
Sør-Trøndelag	12 579,4	11 481,8	9 029,5	1 197,9	1 102,8	151,6	479,8	617,7
Nord-Trøndelag	13 800,3	12 752,1	9 667,6	1 298,1	1 541,1	245,3	558,7	489,5
Nordland	10 179,0	9 615,7	7 644,9	928,3	938,5	104,0	216,2	347,1
Troms	4 911,6	4 648,5	3 752,2	442,2	415,5	38,6	101,6	161,5
Finnmark	1 478,9	1 406,3	1 102,2	157,5	137,8	8,8	2,1	70,5
Agricultural area in use								
0 decares ³	1 508,6	1 501,2	6,3	0,6	1 480,6	13,7	1,5	5,9
1 - 4 " ⁴	1 424,1	1 349,7	534,2	97,5	715,3	2,7	2,1	72,4
5 - 49 "	14 903,1	13 051,1	9 611,8	1 346,7	1 916,2	176,4	646,2	1 205,8
50 - 99 "	26 732,4	23 896,6	19 264,8	2 766,8	1 544,4	320,6	1 160,8	1 675,1
100 - 199 "	59 104,9	54 449,9	43 534,1	6 011,7	4 139,6	764,5	2 118,7	2 536,3
200 - 299 "	35 033,8	32 588,3	25 332,7	3 685,7	3 027,6	542,2	1 129,7	1 315,7
300 - 499 "	19 535,4	18 015,7	13 001,2	2 116,6	2 451,0	446,8	641,6	878,1
500 - "	7 370,8	6 589,3	3 786,3	747,1	1 859,9	196,0	302,2	479,2
Holders¹ by gender								
Legal persons	4 054,7	3 787,2	.	.	3 737,0	50,2	46,7	220,8
Males	143 006,3	130 574,4	101 875,8	14 586,0	11 994,9	2 117,7	5 388,4	7 043,5
Females	18 552,0	17 080,1	13 195,7	2 186,6	1 402,9	294,9	567,7	904,2
Holders¹ by age group								
Legal persons	4 054,7	3 787,2	.	.	3 737,0	50,2	46,7	220,8
- 29 years	8 254,0	7 642,0	5 559,1	1 262,5	671,1	149,3	216,9	395,1
30 - 39 "	35 147,3	32 067,0	24 036,3	4 217,6	3 156,7	656,4	1 209,4	1 870,9
40 - 49 "	48 990,8	44 552,0	34 572,5	4 779,6	4 391,2	808,7	1 834,8	2 604,0
50 - 59 "	44 965,2	41 015,5	32 729,1	4 168,5	3 553,7	564,2	1 688,9	2 260,7
60 - 69 "	21 063,5	19 457,1	15 875,0	1 991,9	1 388,2	202,0	860,8	745,6
70 - "	3 137,6	2 921,0	2 299,6	352,5	236,9	32,1	145,3	71,2
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	527,9	97,6	78,2	4,6	1,5	13,3	82,6	347,7
100 - 499 "	4 910,0	3 097,1	2 640,9	253,1	59,4	143,6	789,9	1 023,1
500 - 999 "	9 425,3	7 563,5	6 370,5	779,2	223,6	190,2	816,7	1 045,1
1 000 - 1 499 "	11 332,2	9 689,3	8 032,5	1 084,6	394,7	177,5	689,2	953,7
1 500 - 1 999 "	11 972,8	10 677,8	8 815,0	1 125,6	587,1	150,1	543,8	751,2
2 000 - 2 999 "	32 607,6	29 959,6	24 425,3	2 944,8	2 240,2	349,3	1 118,8	1 529,2
3 000 - 3 999 "	38 912,8	36 717,4	29 256,2	3 693,7	3 351,5	416,0	989,7	1 205,7
4 000 - "	55 924,3	53 639,5	35 452,9	6 887,1	10 276,7	1 022,8	972,1	1 312,7

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ²Not included work executed by self-employed persons or firms. ³Comprise mainly joint operations with milk production. ⁴Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

**8.3. Holdings by number of man-years¹ executed in agriculture and horticulture, by county and various structural classifications.
1 August 1998-31 July 1999**

	Holdings, total	By number of man-years						
		-0.4	0.5-0.9	1.0-1.4	1.5-1.9	2.0-2.4	2.5-2.9	3.0-
Total	70 740	22 972	13 729	11 499	10 427	6 805	2 962	2 346
County								
Østfold	3 604	1 821	683	401	280	184	116	119
Akershus and Oslo	3 484	1 765	716	351	241	177	105	129
Hedmark	5 974	2 639	1 008	740	684	446	238	219
Oppland	7 054	2 056	1 214	1 253	1 143	823	327	238
Buskerud	3 820	1 866	735	480	340	188	93	118
Vestfold	2 463	1 294	432	222	187	138	73	117
Telemark	2 616	1 421	528	330	175	94	42	26
Aust-Agder	1 258	559	274	201	114	51	27	32
Vest-Agder	1 994	758	463	384	212	105	42	30
Rogaland	6 189	1 001	1 084	1 145	1 251	903	437	368
Hordaland	5 595	1 528	1 532	1 027	801	422	166	119
Sogn og Fjordane	5 295	1 148	1 238	1 092	941	565	183	128
Møre og Romsdal	5 018	1 160	1 053	873	886	624	269	153
Sør-Trøndelag	4 805	1 289	705	845	953	621	249	143
Nord-Trøndelag	5 026	1 208	717	905	1 041	678	279	198
Nordland	3 833	781	744	732	729	509	204	134
Troms	2 054	473	480	403	345	220	76	57
Finnmark	658	205	123	115	104	57	36	18
Agricultural area in use								
0 decares ²	398	9	30	89	97	80	40	53
1 - 4 " ³	331	58	54	39	42	26	22	90
5 - 49 "	13 788	9 368	2 928	876	275	109	66	166
50 - 99 "	16 720	7 194	4 664	2 774	1 266	525	158	139
100 - 199 "	22 286	4 741	3 658	4 912	4 869	2 689	895	522
200 - 299 "	10 367	1 136	1 318	1 670	2 598	2 164	949	532
300 - 499 "	5 273	415	864	823	1 021	995	632	523
500 - "	1 577	51	213	316	259	217	200	321
Holders⁴ by gender								
Legal persons	781	82	89	129	127	110	57	187
Males	60 914	19 742	11 449	9 923	9 236	6 012	2 623	1 929
Females	9 045	3 148	2 191	1 447	1 064	683	282	230
Holders⁴ by age group								
Legal persons	781	82	89	129	127	110	57	187
- 29 years	3 656	1 151	722	680	562	304	135	102
30 - 39 "	14 267	4 220	2 639	2 361	2 360	1 509	685	493
40 - 49 "	20 447	6 538	3 897	3 194	3 059	2 116	929	714
50 - 59 "	19 276	6 270	3 680	3 152	2 884	1 909	815	566
60 - 69 "	9 981	3 475	2 170	1 671	1 292	785	322	266
70 - "	2 332	1 236	532	312	143	72	19	18
Dairy cows								
Without any dairy cows	48 081	22 864	12 773	6 670	2 942	1 354	583	895
1 - 9 dairy cows	6 047	72	675	2 288	1 808	805	258	141
10 - 14 "	7 979	21	202	1 675	3 110	2 006	658	307
15 - 19 "	5 201	13	58	635	1 788	1 620	717	370
20 - 24 "	2 062	-	13	151	553	678	426	241
25 - "	1 370	2	8	80	226	342	320	392

¹ One man-year is equal to 1 875 man-hours. ² Comprise mainly joint operations with milk production. ³ Comprise mainly holdings in horticulture. ⁴ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: <http://www.ssb.no/jt1999/>.

8.4. Holders¹ who worked on/off the holding², by county and various structural classifications. 1 June 1988 - 31 May 1989 and 1 August 1998-31 July 1999

	Holders, total	With work on the holding				With work off the holding		
		Total	In agriculture and horticulture	In forestry	In supplement- ary industries	Total	As employee	As self- employed
1988-1989	98 610	..	..	..	..	54 916	41 984	13 883
1998-1999	69 959	68 802	68 588	23 376	19 151	37 283	29 048	10 130
1998-1999								
County								
Østfold	3 576	3 496	3 484	1 643	1 095	2 270	1 668	725
Akershus and Oslo	3 448	3 371	3 351	1 299	1 111	2 283	1 755	646
Hedmark	5 917	5 738	5 717	2 182	1 606	3 305	2 597	878
Oppland	6 943	6 824	6 803	2 423	2 008	3 462	2 572	1 074
Buskerud	3 799	3 708	3 690	1 803	1 283	2 386	1 799	727
Vestfold	2 440	2 394	2 385	1 225	852	1 520	1 141	464
Telemark	2 594	2 541	2 534	1 173	848	1 648	1 287	450
Aust-Agder	1 245	1 211	1 205	624	440	686	536	201
Vest-Agder	1 979	1 959	1 949	966	632	1 116	912	269
Rogaland	6 108	6 031	6 017	675	1 191	2 697	2 142	657
Hordaland	5 535	5 498	5 488	1 466	1 099	3 295	2 750	703
Sogn og Fjordane	5 246	5 199	5 193	1 471	1 234	2 792	2 255	659
Møre og Romsdal	4 961	4 910	4 898	1 356	1 257	2 588	2 073	624
Sør-Trøndelag	4 744	4 679	4 659	1 782	1 440	2 209	1 672	662
Nord-Trøndelag	4 942	4 858	4 842	1 976	1 442	2 168	1 718	566
Nordland	3 796	3 745	3 736	866	977	1 601	1 210	464
Troms	2 036	2 010	2 009	431	494	972	765	248
Finnmark	650	630	628	15	142	285	196	113
Agricultural area in use								
- 4 decares ³	272	266	266	13	20	86	61	27
5 - 49 "	13 697	13 297	13 219	3 326	2 102	8 929	7 680	1 616
50 - 99 "	16 672	16 369	16 312	5 233	3 488	10 667	8 713	2 475
100 - 199 "	22 228	21 929	21 872	8 066	6 656	11 059	8 373	3 292
200 - 299 "	10 331	10 237	10 228	3 926	3 786	4 015	2 680	1 555
300 - 499 "	5 227	5 184	5 175	2 112	2 292	1 967	1 269	841
500 - "	1 532	1 520	1 516	700	807	560	272	324
Holders¹ by gender								
Males	60 914	60 574	60 463	22 511	18 203	32 830	24 967	9 621
Females	9 045	8 228	8 125	865	948	4 453	4 081	509
Holders¹ by age group								
- 29 years	3 656	3 597	3 587	829	1 149	2 288	1 886	592
30 - 39 "	14 267	14 062	14 014	4 649	4 837	8 993	7 168	2 413
40 - 49 "	20 447	20 183	20 110	7 390	6 148	12 849	10 018	3 494
50 - 59 "	19 276	19 020	18 966	6 851	5 010	10 403	8 126	2 660
60 - 69 "	9 981	9 727	9 705	3 084	1 821	2 644	1 810	905
70 - "	2 332	2 213	2 206	573	186	106	40	66
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	1 775	1 606	1 528	540	362	1 310	1 083	278
100 - 499 "	11 348	10 937	10 881	4 126	2 251	8 875	7 380	1 981
500 - 999 "	10 547	10 344	10 314	3 536	2 281	7 912	6 477	1 826
1 000 - 1 499 "	8 010	7 881	7 863	2 484	1 896	5 568	4 467	1 390
1 500 - 1 999 "	6 123	6 057	6 047	1 938	1 688	3 656	2 816	1 048
2 000 - 2 999 "	11 977	11 878	11 866	4 055	3 851	4 941	3 537	1 646
3 000 - 3 999 "	10 500	10 444	10 436	3 636	3 509	2 999	2 008	1 124
4 000 - "	9 679	9 655	9 653	3 061	3 313	2 022	1 280	837

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ² Comprise holdings with natural person as holder. ³ Comprise mainly holdings in horticulture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_env/.

8.5. Holders¹ by labour input in agriculture and horticulture, forestry and supplementary industries², by county and various structural classifications. 1 June 1988-31 May 1989 and 1 August 1998-31 July 1999

	Holders, total	By man-hours						
		-99	100-499	500-999	1 000-1 499	1 500-1 999	2 000-2 499	2 500-
1988-1989	98 610	11 821	20 433	16 617	10 735		39 004	
1998-1999	69 959	3 240	14 360	12 870	8 369	8 224	9 110	13 786
1998-1999								
County								
Østfold	3 576	250	1 093	721	393	338	307	474
Akershus and Oslo	3 448	267	1 001	742	368	329	292	449
Hedmark	5 917	573	1 645	902	582	630	715	870
Oppland	6 943	340	1 279	1 109	783	904	1 032	1 496
Buskerud	3 799	265	1 076	747	476	401	376	458
Vestfold	2 440	119	781	526	242	230	212	330
Telemark	2 594	186	872	568	297	247	207	217
Aust-Agder	1 245	67	335	244	139	154	151	155
Vest-Agder	1 979	69	468	438	296	235	196	277
Rogaland	6 108	151	677	945	776	740	966	1 853
Hordaland	5 535	119	994	1 379	897	641	641	864
Sogn og Fjordane	5 246	120	757	1 101	753	787	756	972
Møre og Romsdal	4 961	123	770	1 021	633	531	657	1 226
Sør-Trøndelag	4 744	162	834	688	463	593	739	1 265
Nord-Trøndelag	4 942	197	803	640	456	582	855	1 409
Nordland	3 796	116	504	605	499	494	622	956
Troms	2 036	57	342	390	246	303	292	406
Finnmark	650	59	129	104	70	85	94	109
Agricultural area in use								
- 4 decares ³	272	13	47	34	13	68	48	49
5 - 49 "	13 697	1 636	5 635	3 563	1 432	751	371	309
50 - 99 "	16 672	828	4 747	4 133	2 571	1 969	1 356	1 068
100 - 199 "	22 228	537	2 946	3 405	2 703	3 230	3 939	5 468
200 - 299 "	10 331	152	659	1 130	976	1 338	1 970	4 106
300 - 499 "	5 227	60	270	503	543	657	1 044	2 150
500 - "	1 532	14	56	102	131	211	382	636
Holders¹ by gender								
Males	60 914	1 687	11 866	11 144	7 208	7 188	8 499	13 322
Females	9 045	1 553	2 494	1 726	1 161	1 036	611	464
Holders¹ by age group								
- 29 years	3 656	184	779	631	461	407	450	744
30 - 39 "	14 267	642	2 787	2 428	1 677	1 625	1 915	3 193
40 - 49 "	20 447	787	4 269	3 754	2 354	2 242	2 599	4 442
50 - 59 "	19 276	780	3 865	3 614	2 247	2 217	2 670	3 883
60 - 69 "	9 981	574	2 060	1 914	1 288	1 422	1 305	1 418
70 - "	2 332	273	600	529	342	311	171	106
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	1 775	1 244	388	54	25	26	19	19
100 - 499 "	11 348	1 146	8 909	880	188	134	65	26
500 - 999 "	10 547	374	3 120	6 032	598	280	92	51
1 000 - 1 499 "	8 010	174	943	3 157	2 972	500	193	71
1 500 - 1 999 "	6 123	93	379	1 243	1 830	2 064	400	114
2 000 - 2 999 "	11 977	114	397	976	1 746	2 874	3 895	1 975
3 000 - 3 999 "	10 500	68	157	350	688	1 554	2 543	5 140
4 000 - "	9 679	27	67	178	322	792	1 903	6 390

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ² Comprise holdings with natural person as holder. ³ Comprise mainly holdings in horticulture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: <http://www.ssb.no/ft1999/en/>.
More information: <http://www.ssb.no/ft1999/>.

**8.6. Labour input executed by holders¹ on and off the holdings², by county and various structural classifications.
1 June 1988-31 May 1989 and 1 August 1998-31 July 1999. 1 000 man-hours**

	Labour input executed by holders, total	On the holding				Off the holding		
		Total	In agriculture and horticulture	In forestry	In supplement- ary industries	Total	As employee	As self- employed
1988-1989 .....	..	..	..	..	..	76 571,8	61 271,8	15 300,0
1998-1999	149 180,2	97 088,9	87 978,7	4 324,9	4 785,3	52 091,3	42 232,3	9 859,0
1998-1999								
County								
Østfold	7 316,7	3 899,7	3 349,3	261,9	288,5	3 417,0	2 623,9	793,1
Akershus and Oslo	7 181,3	3 742,5	3 199,6	204,9	338,1	3 438,8	2 764,7	674,1
Hedmark	11 595,5	6 931,9	6 167,6	401,6	362,8	4 663,5	3 796,5	867,0
Oppland	14 858,7	10 198,5	9 250,5	430,4	517,6	4 660,2	3 635,8	1 024,4
Buskerud	7 645,2	4 232,6	3 502,9	392,4	337,4	3 412,5	2 648,3	764,2
Vestfold	4 959,9	2 679,1	2 244,4	211,7	222,9	2 280,8	1 792,0	488,9
Telemark	4 870,1	2 470,2	1 998,3	270,6	201,3	2 399,9	1 943,7	456,2
Aust-Agder	2 405,0	1 461,3	1 181,5	164,3	115,5	943,7	769,3	174,4
Vest-Agder	4 019,6	2 427,3	2 098,3	193,8	135,2	1 592,3	1 330,3	261,9
Rogaland	14 285,4	10 603,3	10 157,1	124,9	321,4	3 682,0	3 050,5	631,5
Hordaland	12 059,4	7 300,7	6 798,6	216,0	286,2	4 758,7	4 100,3	658,4
Sogn og Fjordane	11 441,4	7 676,4	7 154,7	219,3	302,4	3 764,9	3 132,3	632,6
Møre og Romsdal	11 306,7	7 664,4	7 115,9	225,8	322,6	3 642,3	2 992,5	649,8
Sør-Trøndelag	10 558,0	7 598,9	6 849,4	362,2	387,4	2 959,1	2 390,2	568,9
Nord-Trøndelag	11 110,3	8 204,4	7 490,7	407,1	306,6	2 906,0	2 412,8	493,2
Nordland	8 116,8	6 138,7	5 768,3	163,0	207,4	1 978,1	1 575,9	402,2
Troms	4 239,7	3 000,7	2 825,1	73,9	101,8	1 238,9	1 020,9	218,0
Finnmark	1 210,8	858,1	826,5	1,3	30,3	352,7	252,4	100,3
Agricultural area in use								
- 4 decares ³	519,7	404,9	390,6	2,6	11,6	114,7	90,3	24,5
5 - 49 "	22 565,7	8 421,6	7 239,0	470,5	712,1	14 144,0	12 258,8	1 885,2
50 - 99 "	32 334,2	16 450,5	14 652,5	853,5	944,5	15 883,7	13 228,6	2 655,1
100 - 199 "	51 046,1	36 549,5	33 402,2	1 581,5	1 565,8	14 496,6	11 518,5	2 978,1
200 - 299 "	25 644,9	20 963,9	19 315,3	816,4	832,2	4 681,0	3 306,9	1 374,1
300 - 499 "	13 180,5	10 950,9	9 995,4	455,3	500,3	2 229,6	1 527,5	702,1
500 - "	3 889,3	3 347,6	2 983,6	145,2	218,8	541,7	301,8	239,8
Holders¹ by gender								
Males	136 269,8	89 564,7	80 939,7	4 246,6	4 378,4	46 705,1	37 295,7	9 409,4
Females	12 910,5	7 524,2	7 038,9	78,3	406,9	5 386,3	4 936,7	449,6
Holders¹ by age group								
- 29 years	8 163,0	5 057,0	4 619,3	146,9	290,8	3 105,9	2 648,3	457,7
30 - 39 "	33 147,0	20 800,6	18 785,9	820,7	1 194,0	12 346,4	10 179,5	2 166,9
40 - 49 "	47 590,4	29 196,9	26 348,4	1 306,5	1 542,0	18 393,5	14 815,9	3 577,6
50 - 59 "	42 082,3	27 191,6	24 629,6	1 279,9	1 282,1	14 890,7	12 131,6	2 759,1
60 - 69 "	16 028,0	12 751,5	11 656,4	659,7	435,4	3 276,5	2 421,3	855,2
70 - "	2 169,6	2 091,3	1 939,1	111,2	41,0	78,3	35,7	42,6
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	2 473,4	333,4	69,5	58,5	205,4	2 140,1	1 770,2	369,9
100 - 499 "	18 086,0	3 445,6	2 230,0	592,7	623,0	14 640,4	12 163,9	2 476,6
500 - 999 "	18 905,8	6 467,4	5 199,2	620,2	648,0	12 438,5	10 293,8	2 144,6
1 000 - 1 499 "	15 615,5	7 386,2	6 333,3	502,1	550,7	8 229,3	6 719,1	1 510,3
1 500 - 1 999 "	12 668,8	7 827,5	6 969,1	394,1	464,4	4 841,2	3 894,8	946,4
2 000 - 2 999 "	27 061,0	21 613,6	19 837,6	830,5	945,5	5 447,5	4 213,1	1 234,4
3 000 - 3 999 "	27 006,4	24 251,2	22 835,0	720,9	695,3	2 755,2	2 059,9	695,3
4 000 - "	27 363,2	25 764,0	24 505,0	606,0	653,1	1 599,2	1 117,5	481,6

¹ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ² Comprise holdings with natural person as holder. ³ Comprise mainly holdings in horticulture. Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

**8.7. Spouses/cohabitants who worked on/off the holding¹, by county and various structural classifications.
1 June 1988-31 May 1989 and 1 August 1998-31 July 1999**

	Number of spouses/cohabitants, total	With work on/off the holding	With work on the holding				With work off the holding		
			Total	In agriculture and horticulture	In forestry	In supplementary industries	Total	As employee	As self-employed person
1988-1989	77 462	..	..	..	..	..	39 527	35 995	3 801
1998-1999	55 846	51 331	41 956	41 239	4 113	4 873	32 846	30 233	3 228
1998-1999									
County									
Østfold	2 969	2 686	1 976	1 933	300	270	1 871	1 701	207
Akershus and Oslo	2 826	2 569	1 767	1 735	217	225	1 932	1 783	187
Hedmark	4 716	4 235	3 255	3 201	395	382	2 925	2 704	274
Oppland	5 405	5 007	4 123	4 052	374	458	3 065	2 799	334
Buskerud	3 047	2 739	2 165	2 095	346	375	1 883	1 722	189
Vestfold	2 014	1 809	1 359	1 318	264	184	1 255	1 136	144
Telemark	2 057	1 828	1 446	1 390	251	244	1 253	1 158	128
Aust-Agder	1 017	866	674	655	111	123	544	492	62
Vest-Agder	1 569	1 407	1 186	1 165	200	152	882	824	79
Rogaland	4 989	4 633	3 973	3 935	154	341	2 689	2 490	229
Hordaland	4 419	4 125	3 572	3 528	276	341	2 742	2 540	256
Sogn og Fjordane	3 994	3 794	3 390	3 349	213	368	2 419	2 259	208
Møre og Romsdal	3 951	3 727	3 130	3 090	223	347	2 337	2 151	230
Sør-Trøndelag	3 762	3 471	2 879	2 817	250	358	2 061	1 914	184
Nord-Trøndelag	3 994	3 718	3 028	2 983	292	316	2 315	2 142	212
Nordland	3 038	2 801	2 376	2 349	154	239	1 555	1 419	158
Troms	1 586	1 469	1 286	1 279	90	112	865	781	105
Finnmark	493	447	371	365	3	38	253	218	42
Agricultural area in use									
- 4 decares ²	215	196	163	162	4	14	94	81	15
5 - 49 "	10 445	9 125	7 100	6 912	723	752	6 432	5 940	597
50 - 99 "	12 843	11 664	9 387	9 192	1 071	1 085	8 019	7 400	757
100 - 199 "	17 835	16 674	13 786	13 590	1 329	1 597	10 497	9 715	1 010
200 - 299 "	8 693	8 200	6 956	6 886	590	823	4 723	4 317	496
300 - 499 "	4 492	4 229	3 535	3 487	298	454	2 377	2 149	266
500 - "	1 323	1 243	1 029	1 010	98	148	704	631	87
Spouses/cohabitants by gender									
Males	7 305	7 162	6 918	6 852	2 052	1 420	4 489	3 705	990
Females	48 541	44 169	35 038	34 387	2 061	3 453	28 357	26 528	2 238
Holders³ by age group									
- 29 years	1 991	1 794	1 401	1 386	164	178	1 322	1 248	120
30 - 39 "	11 273	10 627	8 511	8 371	1 051	1 147	7 581	6 957	794
40 - 49 "	17 229	16 478	13 244	12 999	1 331	1 675	11 862	10 967	1 122
50 - 59 "	16 190	15 110	12 288	12 066	1 008	1 337	9 567	8 832	873
60 - 69 "	7 972	6 636	5 853	5 766	498	512	2 446	2 173	307
70 - "	1 191	686	659	651	61	24	68	56	12
Total employment in agriculture and horticulture on the holding									
- 99 man-hours	1 300	986	418	339	92	101	862	803	72
100 - 499 "	8 761	7 438	4 658	4 441	817	627	6 144	5 680	592
500 - 999 "	8 215	7 407	5 721	5 596	718	627	5 713	5 226	589
1 000 - 1 499 "	6 310	5 841	4 888	4 818	563	576	4 197	3 866	405
1 500 - 1 999 "	4 664	4 301	3 656	3 604	387	478	2 949	2 687	331
2 000 - 2 999 "	9 201	8 577	7 190	7 096	592	853	5 360	4 933	537
3 000 - 3 999 "	8 704	8 277	7 352	7 291	465	808	4 427	4 096	398
4 000 - "	8 691	8 504	8 073	8 054	479	803	3 194	2 942	304

¹ Comprise holdings with natural person as holder. ² Comprise mainly holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/t1999_en/.

8.8. Spouses/cohabitants¹ by labour input in agriculture and horticulture, forestry and supplementary industries, by county and various structural classifications. 1 June 1988-31 May 1989 and 1 August 1998-31 July 1999

	Number of spouses/ cohabitants, total	By man-hours						
		-99	100-499	500-999	1 000-1 499	1 500-1 999	2 000-2 499	2 500-
1988-1989	77 462	28 009	18 484	12 178	7 595		11 196	
1998-1999	55 846	19 079	15 741	8 955	5 319	3 790	1 801	1 161
1998-1999								
County								
Østfold	2 969	1 408	818	329	175	135	56	48
Akershus and Oslo	2 826	1 433	753	297	152	86	60	45
Hedmark	4 716	2 111	1 257	545	345	254	123	81
Oppland	5 405	1 749	1 440	845	566	446	213	146
Buskerud	3 047	1 301	856	412	195	144	83	56
Vestfold	2 014	948	576	220	119	88	35	28
Telemark	2 057	905	633	262	128	81	30	18
Aust-Agder	1 017	446	312	125	61	45	16	12
Vest-Agder	1 569	575	532	208	134	75	25	20
Rogaland	4 989	1 272	1 223	1 013	673	449	224	135
Hordaland	4 419	1 183	1 545	837	411	257	131	55
Sogn og Fjordane	3 994	878	1 276	836	456	314	159	75
Møre og Romsdal	3 951	1 083	1 116	757	451	305	141	98
Sør-Trøndelag	3 762	1 125	950	635	454	360	140	98
Nord-Trøndelag	3 994	1 271	1 065	666	429	306	148	109
Nordland	3 038	824	780	576	367	271	135	85
Troms	1 586	410	481	298	156	143	60	38
Finnmark	493	157	128	94	47	31	22	14
Agricultural area in use								
- 4 decares ²	215	68	45	23	22	34	14	9
5 - 49 "	10 445	5 082	3 451	1 179	396	207	85	45
50 - 99 "	12 843	4 935	4 061	2 016	969	562	207	93
100 - 199 "	17 835	5 326	4 612	3 180	2 079	1 498	715	425
200 - 299 "	8 693	2 141	2 074	1 591	1 148	964	443	332
300 - 499 "	4 492	1 176	1 139	737	554	426	262	198
500 - "	1 323	351	359	229	151	99	75	59
Spouses/cohabitants by gender								
Males	7 305	668	2 181	1 707	992	695	499	563
Females	48 541	18 411	13 560	7 248	4 327	3 095	1 302	598
Holders³ by age group								
- 29 years	1 991	761	533	289	190	97	65	56
30 - 39 "	11 273	3 826	3 378	1 885	932	612	322	318
40 - 49 "	17 229	5 665	5 081	2 764	1 709	1 113	569	328
50 - 59 "	16 190	5 424	4 483	2 605	1 573	1 263	542	300
60 - 69 "	7 972	2 755	1 995	1 281	858	655	276	152
70 - "	1 191	648	271	131	57	50	27	7
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	1 300	1 207	57	18	5	6	5	2
100 - 499 "	8 761	6 489	2 063	131	38	24	12	4
500 - 999 "	8 215	3 710	3 741	639	59	46	13	7
1 000 - 1 499 "	6 310	1 843	2 879	1 215	296	46	26	5
1 500 - 1 999 "	4 664	1 233	1 538	1 305	410	140	30	8
2 000 - 2 999 "	9 201	2 341	2 702	2 141	1 181	583	200	53
3 000 - 3 999 "	8 704	1 547	1 824	2 088	1 616	1 088	349	192
4 000 - "	8 691	709	937	1 418	1 714	1 857	1 166	890

¹ Comprise holdings with natural person as holder. ² Comprise mainly holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_ev/.

**8.9. Labour input executed by spouses/cohabitants¹ on and off the holdings, by county and various structural classifications.
1 June 1988-31 May 1989 and 1 August 1998-31 July 1999. 1 000 man-hours**

	Labour input executed by spouses/co- habitants, total	On the holding				Off the holding		
		Total	In agriculture and horticulture	In forestry	In supplement- ary industries	Total	As employee	As self- employed
1988-1989 .....	..	..	..	..	..	44 207,5	39 971,1	4 236,4
1998-1999	71 875,2	29 232,0	27 092,8	464,0	1 675,1	42 643,2	39 205,8	3 437,5
1998-1999								
County								
Østfold	3 622,5	1 096,8	963,8	27,3	105,8	2 525,6	2 303,7	222,0
Akershus and Oslo	3 713,4	940,6	822,4	19,4	98,8	2 772,8	2 576,8	195,9
Hedmark	5 851,1	1 965,0	1 800,7	46,7	117,6	3 886,1	3 576,6	309,5
Oppland	6 994,7	3 154,6	2 938,4	41,5	174,7	3 840,1	3 490,2	349,9
Buskerud	3 734,4	1 294,1	1 111,2	39,5	143,4	2 440,3	2 230,4	209,9
Vestfold	2 326,5	718,9	621,0	23,9	74,0	1 607,7	1 450,6	157,1
Telemark	2 361,5	731,3	634,9	31,9	64,5	1 630,2	1 514,8	115,5
Aust-Agder	1 055,2	365,4	314,6	17,7	33,1	689,8	618,2	71,6
Vest-Agder	1 743,9	653,6	599,1	19,6	34,9	1 090,3	1 025,3	65,0
Rogaland	6 631,6	3 325,4	3 183,2	18,8	123,5	3 306,1	3 056,1	250,0
Hordaland	5 836,4	2 250,2	2 103,5	30,2	116,5	3 586,2	3 315,6	270,6
Sogn og Fjordane	5 585,4	2 463,0	2 317,1	23,7	122,2	3 122,3	2 897,3	225,1
Møre og Romsdal	5 429,3	2 385,7	2 246,3	24,6	114,8	3 043,6	2 803,2	240,5
Sør-Trøndelag	4 948,2	2 337,1	2 180,2	34,2	122,7	2 611,1	2 419,0	192,2
Nord-Trøndelag	5 230,0	2 317,1	2 176,9	34,1	106,0	2 912,9	2 694,2	218,7
Nordland	4 040,4	1 976,6	1 876,6	20,7	79,3	2 063,9	1 875,4	188,5
Troms	2 144,4	965,8	927,1	10,2	28,5	1 178,6	1 069,2	109,4
Finnmark	626,3	290,8	275,7	0,1	15,0	335,5	289,4	46,2
Agricultural area in use								
- 4 decares ²	298,2	159,6	149,9	0,3	9,5	138,6	121,2	17,4
5 - 49 "	11 526,2	2 695,8	2 372,8	76,3	246,7	8 830,3	8 152,2	678,1
50 - 99 "	15 718,2	5 089,1	4 612,3	106,8	370,0	10 629,0	9 775,5	853,5
100 - 199 "	24 155,4	10 834,8	10 131,9	156,6	546,4	13 320,6	12 293,1	1 027,5
200 - 299 "	12 183,7	6 352,2	6 017,5	76,5	258,1	5 831,5	5 325,8	505,7
300 - 499 "	6 194,9	3 214,4	3 005,9	35,7	172,9	2 980,4	2 706,1	274,4
500 - "	1 798,7	885,9	802,7	11,8	71,5	912,8	831,9	80,9
Spouses/cohabitants by gender								
Males	13 883,8	6 798,0	6 156,8	335,9	305,4	7 085,8	5 901,7	1 184,1
Females	57 991,4	22 433,9	20 936,1	128,2	1 369,7	35 557,5	33 304,1	2 253,4
Holders³ by age group								
- 29 years	2 793,2	993,8	939,8	21,6	32,4	1 799,5	1 694,9	104,6
30 - 39 "	15 623,4	5 709,9	5 250,4	119,5	339,9	9 913,6	9 073,0	840,6
40 - 49 "	24 451,3	8 961,4	8 224,1	145,5	591,8	15 489,9	14 264,1	1 225,8
50 - 59 "	21 221,3	8 741,2	8 099,5	106,7	535,0	12 480,1	11 522,7	957,4
60 - 69 "	7 336,1	4 448,2	4 218,6	62,8	166,9	2 887,9	2 588,2	299,7
70 - "	449,8	377,5	360,5	7,9	9,1	72,3	63,0	9,4
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	1 283,3	66,7	8,7	7,4	50,6	1 216,7	1 127,5	89,2
100 - 499 "	9 244,5	680,1	411,0	62,3	206,9	8 564,4	7 913,9	650,5
500 - 999 "	9 302,6	1 458,6	1 171,2	76,5	210,9	7 844,0	7 152,5	691,5
1 000 - 1 499 "	7 510,0	1 949,3	1 699,2	64,8	185,3	5 560,8	5 125,7	435,1
1 500 - 1 999 "	5 904,8	2 055,5	1 845,9	49,4	160,2	3 849,3	3 490,7	358,6
2 000 - 2 999 "	11 800,6	4 975,2	4 587,7	73,9	313,6	6 825,3	6 270,2	555,2
3 000 - 3 999 "	12 079,5	6 756,1	6 421,3	56,6	278,2	5 323,4	4 929,0	394,4
4 000 - "	14 749,8	11 290,4	10 947,9	73,1	269,4	3 459,4	3 196,3	263,1

¹ Comprise holdings with natural person as holder. ² Comprise mainly holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture and Forestry 1989, Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/t1999_en/.

8.10. Holdings with labour input executed by family members, regular help and occasional help, by county and various structural classifications. 1 August 1998-31 July 1999

	Holdings, total	Holdings with work executed by family members or other persons, total	With work executed by family members		With work executed by regular help		With work executed by occasional help	
			Total	Of which in agriculture and horticulture	Total	Of which in agriculture and horticulture	Total	Of which in agriculture and horticulture
Total	70 740	51 934	39 885	39 238	17 104	16 759	15 048	14 366
County								
Østfold	3 604	2 116	1 666	1 622	547	527	607	562
Akershus and Oslo	3 484	2 051	1 632	1 595	474	444	628	584
Hedmark	5 974	3 938	2 980	2 930	1 197	1 159	1 551	1 473
Oppland	7 054	5 340	3 987	3 936	1 999	1 955	1 572	1 489
Buskerud	3 820	2 441	1 945	1 892	597	565	721	662
Vestfold	2 463	1 511	1 183	1 141	376	354	516	488
Telemark	2 616	1 622	1 264	1 217	368	349	493	451
Aust-Agder	1 258	863	644	619	275	269	230	206
Vest-Agder	1 994	1 472	1 124	1 091	479	474	317	296
Rogaland	6 189	5 148	3 836	3 809	2 089	2 071	1 318	1 284
Hordaland	5 595	4 342	3 535	3 503	1 177	1 161	1 021	988
Sogn og Fjordane	5 295	4 374	3 573	3 546	1 170	1 159	1 045	1 023
Møre og Romsdal	5 018	4 203	3 357	3 319	1 276	1 262	1 159	1 129
Sør-Trøndelag	4 805	3 582	2 678	2 616	1 447	1 421	1 038	986
Nord-Trøndelag	5 026	3 812	2 745	2 700	1 685	1 664	1 219	1 159
Nordland	3 833	3 062	2 192	2 170	1 237	1 226	982	963
Troms	2 054	1 588	1 183	1 175	549	540	491	484
Finnmark	658	469	361	357	162	159	140	139
Agricultural area in use								
0 decares ¹	398	393	4	3	388	388	108	108
1 - 4 " ²	331	242	82	80	179	177	86	84
5 - 49 "	13 788	7 179	5 932	5 711	1 027	968	1 563	1 432
50 - 99 "	16 720	11 325	9 056	8 897	2 454	2 362	2 574	2 424
100 - 199 "	22 286	17 889	13 663	13 503	6 424	6 316	5 115	4 914
200 - 299 "	10 367	8 935	6 744	6 680	3 915	3 875	3 053	2 941
300 - 499 "	5 273	4 556	3 413	3 381	2 024	1 996	1 792	1 728
500 - "	1 577	1 415	991	983	693	677	757	735
Type of holders								
Natural persons	69 959	51 153	39 885	39 238	16 331	15 988	14 762	14 093
General partnerships	462	462	.	.	462	462	130	126
Others	319	319	.	.	311	309	156	147
Holder³ by gender								
Legal persons	781	781	.	.	773	771	286	273
Males	60 914	44 437	34 575	34 035	14 433	14 147	12 793	12 227
Females	9 045	6 716	5 310	5 203	1 898	1 841	1 969	1 866
Holder³ by age group								
Legal person	781	781	.	.	773	771	286	273
- 29 years	3 656	2 780	2 244	2 223	875	865	817	792
30 - 39 "	14 267	10 767	7 862	7 732	4 283	4 187	3 633	3 479
40 - 49 "	20 447	15 534	12 285	12 055	5 262	5 146	4 631	4 402
50 - 59 "	19 276	14 259	11 440	11 251	4 080	3 991	3 811	3 631
60 - 69 "	9 981	6 585	5 169	5 107	1 595	1 565	1 574	1 510
70 - "	2 332	1 228	885	870	236	234	296	279
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	1 784	352	269	179	48	13	89	49
100 - 499 "	11 385	4 139	3 510	3 264	326	244	798	642
500 - 999 "	10 586	6 325	5 317	5 212	729	678	1 297	1 182
1 000 - 1 499 "	8 047	5 998	4 877	4 800	1 077	1 029	1 373	1 289
1 500 - 1 999 "	6 181	4 864	3 766	3 739	1 136	1 104	1 307	1 237
2 000 - 2 999 "	12 122	10 578	7 668	7 611	3 898	3 849	3 056	2 967
3 000 - 3 999 "	10 637	9 954	7 134	7 111	4 777	4 747	3 268	3 180
4 000 - "	9 998	9 724	7 344	7 322	5 113	5 095	3 860	3 820

¹ Comprise mainly joint operations with milk production. ² Comprise mainly holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

**8.11. Family members with work on the holding¹ and number of executed man-hours, by county and various structural classifications.
1 August 1998-31 July 1999**

	Number of family members				Labour input of family members			
	Total	Of which			Total	In agriculture and horticulture	In forestry	In supplementary industries
		In agriculture and horticulture	In forestry	In supplementary industries				
1 000 man-hours								
Total	59 668	58 397	7 307	3 137	18 120,2	16 772,6	717,5	630,1
County								
Østfold	2 358	2 264	483	161	641,7	567,7	42,4	31,6
Akershus and Oslo	2 294	2 224	409	188	681,2	602,0	35,9	43,3
Hedmark	4 410	4 314	617	245	1 286,4	1 184,2	62,4	39,8
Oppland	5 796	5 694	664	269	1 886,1	1 754,4	67,1	64,6
Buskerud	2 885	2 788	575	231	786,8	688,5	56,7	41,7
Vestfold	1 710	1 635	395	123	468,9	395,9	34,9	38,0
Telemark	1 840	1 750	354	146	402,2	339,4	37,2	25,7
Aust-Agder	936	890	198	91	247,8	206,9	22,3	18,6
Vest-Agder	1 637	1 582	342	89	402,4	353,4	32,5	16,5
Rogaland	5 866	5 809	269	219	2 130,9	2 054,1	29,7	47,1
Hordaland	5 527	5 444	572	237	1 526,1	1 433,7	51,8	40,6
Sogn og Fjordane	5 661	5 594	515	257	1 777,9	1 680,8	43,5	53,6
Møre og Romsdal	5 198	5 128	442	237	1 571,9	1 487,7	41,7	42,5
Sør-Trøndelag	3 923	3 816	527	246	1 303,8	1 197,9	58,1	47,8
Nord-Trøndelag	4 019	3 928	578	213	1 408,9	1 298,1	68,2	42,7
Nordland	3 237	3 196	231	94	971,9	928,3	22,9	20,7
Troms	1 762	1 737	127	73	461,3	442,2	9,7	9,4
Finnmark	609	604	9	18	163,9	157,5	0,6	5,8
Agricultural area in use								
- 4 decares ²	129	124	5	5	101,7	98,1	0,6	3,0
5 - 49 "	8 567	8 202	1 043	476	1 512,9	1 346,7	74,7	91,5
50 - 99 "	13 108	12 800	1 655	685	3 042,7	2 766,8	144,0	131,9
100 - 199 "	20 580	20 215	2 518	994	6 452,8	6 011,7	254,8	186,3
200 - 299 "	10 465	10 324	1 229	511	3 939,1	3 685,7	141,8	111,6
300 - 499 "	5 286	5 223	666	324	2 265,5	2 116,6	77,3	71,5
500 - "	1 533	1 509	191	142	805,6	747,1	24,2	34,3
Family members by gender								
Males	39 779	38 972	6 551	2 179	13 523,3	12 403,8	679,1	440,4
Females	19 889	19 425	756	958	4 596,9	4 368,8	38,4	189,7
Holders³ by age group								
- 29 years	3 495	3 448	318	154	1 334,3	1 262,5	38,9	33,0
30 - 39 "	11 606	11 344	1 475	636	4 531,8	4 217,6	174,7	139,5
40 - 49 "	19 172	18 737	2 434	1 087	5 172,9	4 779,6	209,8	183,5
50 - 59 "	17 161	16 773	2 063	956	4 538,4	4 168,5	182,7	187,2
60 - 69 "	7 084	6 966	859	271	2 163,6	1 991,9	91,7	80,0
70 - "	1 150	1 129	158	33	379,1	352,5	19,7	7,0
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	340	210	91	111	34,8	4,6	5,9	24,3
100 - 499 "	4 620	4 238	1 142	380	398,8	253,1	81,9	63,8
500 - 999 "	7 428	7 191	1 189	454	956,6	779,2	87,8	89,7
1 000 - 1 499 "	7 003	6 858	871	363	1 237,7	1 084,6	81,8	71,3
1 500 - 1 999 "	5 556	5 488	655	289	1 237,3	1 125,6	61,9	49,9
2 000 - 2 999 "	11 439	11 283	1 167	544	3 179,3	2 944,8	125,6	109,0
3 000 - 3 999 "	11 007	10 924	1 058	460	3 914,9	3 693,7	120,0	101,2
4 000 - "	12 275	12 205	1 134	536	7 160,8	6 887,1	152,6	121,0

¹ Comprise holdings with natural person as holder. ² Comprise mainly holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

**8.12. Regular help working on the holding and number of executed man-hours, by county and various structural classifications.
1 August 1998-31 July 1999**

	Number of regular help				Labour input of regular help			
	Total	Of which			Total	In agriculture and horticulture	In forestry	In supplementary industries
		In agriculture and horticulture	In forestry	In supplementary industries				
1 000 man-hours								
Total	22 486	21 730	1 823	1 425	12 550,2	11 464,4	330,5	755,3
County								
Østfold	777	732	98	109	578,2	496,6	21,4	60,2
Akershus and Oslo	747	668	81	148	734,8	588,7	31,3	114,8
Hedmark	1 621	1 540	213	125	1 172,8	1 037,9	66,4	68,5
Oppland	2 587	2 506	249	133	1 394,6	1 287,0	47,4	60,2
Buskerud	846	775	99	89	520,4	426,5	20,4	73,6
Vestfold	617	562	43	93	503,2	429,3	9,0	65,0
Telemark	504	473	56	37	258,2	224,9	17,4	15,9
Aust-Agder	371	357	42	25	196,0	182,0	6,8	7,2
Vest-Agder	602	592	43	25	230,7	215,0	5,4	10,4
Rogaland	2 741	2 689	60	129	1 462,6	1 392,3	7,2	63,1
Hordaland	1 556	1 528	103	54	775,5	739,1	13,0	23,4
Sogn og Fjordane	1 443	1 411	119	90	609,3	558,8	12,0	38,5
Møre og Romsdal	1 667	1 634	110	76	762,5	724,2	10,8	27,6
Sør-Trøndelag	1 824	1 766	144	118	928,2	861,6	18,1	48,4
Nord-Trøndelag	2 154	2 109	257	67	1 228,0	1 171,6	34,2	22,2
Nordland	1 512	1 495	75	60	740,4	709,8	6,0	24,6
Troms	709	693	30	35	326,2	305,9	3,7	16,6
Finnmark	208	200	1	12	128,6	113,5	0,0	15,1
Agricultural area in use								
0 decares ¹	1 374	1 374	-	37	1 433,7	1 428,7	-	5,0
1 - 4 " ²	437	418	-	52	628,0	581,6	-	46,4
5 - 49 "	1 542	1 441	66	163	1 111,9	995,0	12,8	104,2
50 - 99 "	2 931	2 760	206	248	1 085,4	886,0	32,5	166,9
100 - 199 "	7 673	7 447	621	375	2 966,1	2 710,5	87,0	168,5
200 - 299 "	4 748	4 638	435	208	2 226,7	2 076,2	69,6	80,9
300 - 499 "	2 640	2 565	288	197	1 771,6	1 618,4	53,7	99,4
500 - "	1 141	1 087	207	145	1 326,9	1 168,1	74,9	83,9
Regular help by gender								
Males	17 050	16 608	1 735	952	9 612,2	8 868,8	321,3	422,1
Females	5 436	5 122	88	473	2 938,0	2 595,6	9,1	333,2
Type of holders								
Natural persons	19 899	19 200	1 743	1 170	9 367,4	8 497,1	296,1	574,2
General partnerships	1 601	1 593	10	82	1 711,5	1 682,0	0,9	28,6
Others	986	937	70	173	1 471,4	1 285,3	33,6	152,5
Holders³ by age group								
Legal person	2 587	2 530	80	255	3 182,8	2 967,3	34,4	181,1
- 29 years	1 079	1 051	49	56	463,1	429,3	6,6	27,1
30 - 39 "	5 277	5 090	449	311	2 306,4	2 091,2	66,8	148,5
40 - 49 "	6 415	6 164	602	427	3 001,0	2 719,4	101,5	180,0
50 - 59 "	4 952	4 770	458	300	2 472,0	2 211,1	85,7	175,2
60 - 69 "	1 891	1 844	165	66	949,0	883,1	31,0	34,9
70 - "	285	281	20	10	175,9	163,0	4,5	8,4
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	71	13	14	54	51,2	0,5	9,5	41,2
100 - 499 "	419	284	86	138	158,5	28,3	32,0	98,2
500 - 999 "	847	768	90	124	204,4	117,2	15,7	71,5
1 000 - 1 499 "	1 278	1 181	112	148	362,5	238,0	24,8	99,7
1 500 - 1 999 "	1 346	1 287	116	125	480,8	398,8	23,2	58,8
2 000 - 2 999 "	4 816	4 687	399	248	1 856,1	1 669,6	64,9	121,6
3 000 - 3 999 "	5 913	5 819	468	237	2 725,6	2 558,5	73,0	94,1
4 000 - "	7 796	7 691	538	351	6 711,1	6 453,5	87,3	170,3

¹ Comprise mainly joint operations with milk production. ² Comprise mainly holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

**8.13. Occasional help working on the holding and number of executed man-hours, by county and various structural classifications.
1 August 1998-31 July 1999**

	Number of occasional help			Labour input of occasional help			
	Total	Males	Females	Total	In agriculture and horticulture	In forestry	In supplementary industries
	1 000 man-hours						
Total	48 603	34 640	13 963	6 158,8	5 670,3	165,9	322,6
County							
Østfold	2 339	1 580	759	320,2	293,4	8,7	18,1
Akershus and Oslo	2 199	1 472	727	407,8	323,6	36,4	47,8
Hedmark	6 222	4 190	2 032	734,3	659,4	23,7	51,2
Oppland	4 935	3 639	1 296	559,9	523,5	13,9	22,5
Buskerud	2 850	1 923	927	595,6	555,3	14,2	26,0
Vestfold	3 092	1 843	1 249	598,2	576,1	7,3	14,8
Telemark	1 486	1 029	457	167,4	150,3	9,0	8,2
Aust-Agder	1 219	747	472	150,0	142,2	3,4	4,3
Vest-Agder	1 147	760	387	98,7	88,0	2,8	7,9
Rogaland	4 254	3 115	1 139	623,5	585,7	3,3	34,6
Hordaland	2 574	1 978	596	286,6	272,6	4,8	9,2
Sogn og Fjordane	2 557	1 873	684	262,7	252,1	3,3	7,2
Møre og Romsdal	3 071	2 255	816	302,2	274,8	4,8	22,7
Sør-Trøndelag	2 642	2 063	579	259,8	241,2	7,2	11,4
Nord-Trøndelag	3 818	2 906	912	396,7	369,5	15,2	12,0
Nordland	2 472	1 964	508	247,5	228,7	3,6	15,2
Troms	1 346	1 002	344	118,9	109,6	4,1	5,2
Finnmark	380	301	79	28,7	24,3	-	4,4
Agricultural area in use							
0 decares ¹	271	196	75	51,9	51,9	-	-
1 - 4 " ²	316	101	215	136,5	133,7	-	2,8
5 - 49 "	5 257	3 237	2 020	984,5	921,3	11,9	51,3
50 - 99 "	7 648	5 321	2 327	744,1	658,4	24,0	61,7
100 - 199 "	14 375	10 706	3 669	1 537,2	1 429,1	38,8	69,3
200 - 299 "	9 549	7 205	2 344	1 009,8	951,5	25,4	32,9
300 - 499 "	6 952	5 026	1 926	886,1	832,6	19,6	34,0
500 - "	4 235	2 848	1 387	808,7	691,8	46,3	70,6
Regular help by gender							
Males	34 640	34 640	.	4 078,9	3 740,8	158,4	179,7
Females	13 963	.	13 963	2 079,9	1 929,5	7,5	142,9
Type of holders							
Natural persons	47 060	33 783	13 277	5 337,2	4 900,6	153,6	283,0
General partnerships	362	249	113	138,8	136,6	0,0	2,2
Others	1 181	608	573	682,9	633,2	12,3	37,4
Holders³ by age group							
Legal person	1 543	857	686	821,7	769,7	12,3	39,7
- 29 years	2 548	1 886	662	256,5	241,8	2,9	11,8
30 - 39 "	11 624	8 585	3 039	1 142,2	1 065,5	27,8	48,9
40 - 49 "	15 206	10 825	4 381	1 849,9	1 671,8	71,5	106,6
50 - 59 "	12 334	8 677	3 657	1 457,7	1 342,5	33,9	81,3
60 - 69 "	4 621	3 272	1 349	549,2	505,1	15,6	28,6
70 - "	727	538	189	81,6	73,9	2,0	5,8
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	258	180	78	28,5	1,0	1,3	26,3
100 - 499 "	1 822	1 469	353	83,4	31,2	20,9	31,3
500 - 999 "	3 022	2 334	688	148,0	106,4	16,5	25,1
1 000 - 1 499 "	3 574	2 623	951	219,1	156,6	15,7	46,7
1 500 - 1 999 "	3 362	2 468	894	221,6	188,3	15,3	18,0
2 000 - 2 999 "	8 283	6 138	2 145	634,1	570,6	23,9	39,5
3 000 - 3 999 "	9 271	7 070	2 201	849,1	793,0	19,2	36,9
4 000 - "	19 011	12 358	6 653	3 975,2	3 823,2	53,1	98,9

¹ Comprise mainly joint operations with milk production. ² Comprise mainly holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

8.14. Holdings hiring self-employed persons or firms to do agricultural or horticultural work and executed man-hours, by county and various structural classifications. 1 August 1998-31 July 1999

	Holdings hiring self-employed persons or firms					Labour input done by self-employed persons or firms				
	Total	Of which				Total	Ongoing operations/production	Maintenance of farm buildings (not farmhouses)	Construction of new farm buildings (not farmhouses)	Ditching and reclamation
		For ongoing operations/production	For maintenance of farm buildings (not farmhouses)	For construction of new farm buildings (not farmhouses)	For ditching and reclamation					
1 000 man-hours										
Total	39 066	35 810	4 409	2 263	4 970	2 462,9	965,9	462,5	792,4	242,1
County										
Østfold	1 933	1 767	347	116	148	171,3	73,9	47,2	44,8	5,4
Akershus and Oslo	1 766	1 568	302	105	141	161,6	72,0	36,4	44,5	8,8
Hedmark	3 444	3 131	488	197	401	278,9	108,8	68,7	83,7	17,6
Oppland	4 713	4 501	526	210	459	265,5	117,2	53,8	80,9	13,6
Buskerud	2 129	1 981	270	117	178	125,5	59,8	28,6	30,7	6,4
Vestfold	1 507	1 410	201	119	108	122,2	45,1	25,4	47,7	4,1
Telemark	1 306	1 222	111	48	93	51,9	25,9	7,7	13,5	4,8
Aust-Agder	798	764	57	39	70	34,5	17,4	6,3	8,0	2,8
Vest-Agder	1 318	1 265	76	47	136	52,1	27,2	5,9	11,9	7,0
Rogaland	4 831	4 680	592	327	636	305,8	109,1	47,0	106,4	43,3
Hordaland	1 942	1 585	212	152	368	103,7	26,0	16,5	42,6	18,6
Sogn og Fjordane	1 964	1 653	209	130	336	116,9	30,5	14,4	42,6	29,4
Møre og Romsdal	2 535	2 289	218	130	416	124,7	49,8	18,6	36,0	20,3
Sør-Trøndelag	2 851	2 597	280	135	429	151,6	64,8	27,9	44,3	14,5
Nord-Trøndelag	3 261	2 981	347	235	568	245,3	81,6	43,9	99,6	20,2
Nordland	1 749	1 534	107	102	312	104,0	38,8	9,1	37,6	18,4
Troms	773	664	50	38	148	38,6	13,2	4,3	14,8	6,3
Finnmark	246	218	16	16	23	8,8	4,7	0,8	2,6	0,7
Agricultural area in use										
0 decares ¹	61	38	19	14	8	13,7	2,2	2,6	8,4	0,5
1 - 4 " ²	31	16	11	4	1	2,7	1,5	0,6	0,6	0,0
5 - 49 "	5 821	5 492	321	151	385	176,4	90,1	31,4	39,2	15,7
50 - 99 "	9 039	8 530	562	297	793	320,6	173,7	43,9	71,0	32,0
100 - 199 "	13 223	12 147	1 372	756	1 786	764,5	304,3	124,7	251,3	84,3
200 - 299 "	6 520	5 859	1 052	545	1 097	542,2	183,6	105,7	197,5	55,4
300 - 499 "	3 382	2 938	750	363	683	446,8	148,8	95,2	163,0	39,9
500 - "	989	790	322	133	217	196,0	61,8	58,5	61,4	14,3
Holders³ by gender										
Legal persons	265	207	64	32	38	50,2	11,3	12,3	24,1	2,5
Males	33 693	30 861	3 814	1 980	4 348	2 117,7	815,8	399,4	691,9	210,6
Females	5 108	4 742	531	251	584	294,9	138,9	50,7	76,3	29,0
Type of holders										
Natural persons	38 801	35 603	4 345	2 231	4 932	2 412,7	954,7	450,2	768,3	239,6
General partnerships	94	61	26	19	16	20,5	4,2	4,8	10,5	1,0
Others	171	146	38	13	22	29,7	7,1	7,5	13,6	1,6
Holders³ by age group										
Legal person	265	207	64	32	38	50,2	11,3	12,3	24,1	2,5
- 29 years	2 192	2 024	228	144	287	149,3	60,7	23,4	48,7	16,4
30 - 39 "	8 742	7 943	1 146	684	1 339	656,4	226,0	119,4	235,9	75,1
40 - 49 "	11 623	10 629	1 421	813	1 558	808,7	286,9	153,9	293,4	74,6
50 - 59 "	10 267	9 439	1 107	453	1 228	564,2	252,2	109,2	148,5	54,2
60 - 69 "	4 910	4 540	388	130	465	202,0	104,1	39,3	41,1	17,5
70 - "	1 067	1 028	55	7	55	32,1	24,8	4,8	0,8	1,7
Total employment in agriculture and horticulture on the holding										
- 99 man-hours	938	928	8	3	16	13,3	12,8	0,2	0,0	0,3
100 - 499 "	5 468	5 266	282	60	296	143,6	117,7	14,7	3,9	7,3
500 - 999 "	4 936	4 566	459	134	465	190,2	116,0	39,3	20,5	14,5
1 000 - 1 499 "	4 093	3 759	431	152	470	177,5	94,7	39,5	26,2	17,1
1 500 - 1 999 "	3 231	2 961	315	159	383	150,1	74,9	30,6	29,0	15,7
2 000 - 2 999 "	7 052	6 445	715	366	954	349,3	170,2	57,7	79,7	41,7
3 000 - 3 999 "	6 757	6 097	856	471	1 132	416,0	169,0	80,1	107,7	59,1
4 000 - "	6 591	5 788	1 343	918	1 254	1 022,8	210,7	200,4	525,2	86,6

¹ Comprise mainly joint operations with milk production. ² Comprise mainly holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

8.15. Number of man-years¹ executed in supplementary industries, proportion of holdings with supplementary industry and number of holdings by type of supplementary industry², by county and various structural classifications. 1 August 1998-31 July 1999

	Man-years executed in supplementary industries	Proportion of holdings with supplementary industry	Holdings with supplementary industry, total	By type of supplementary industry			
				Leasing out sites	Renting out farmhouse or farm buildings	Renting out agricultural area	Renting out hunting or fishing rights
		Per cent					
Total	4 357	41	29 097	2 662	3 490	5 862	5 851
County							
Østfold	269	43	1 556	224	253	287	91
Akershus and Oslo	343	47	1 631	74	439	344	191
Hedmark	341	39	2 354	122	330	561	358
Oppland	448	46	3 249	290	321	652	962
Buskerud	332	55	2 084	365	262	368	881
Vestfold	221	51	1 258	139	239	281	141
Telemark	168	47	1 224	220	136	209	206
Aust-Agder	95	50	626	74	54	105	132
Vest-Agder	109	42	844	75	73	142	84
Rogaland	315	34	2 123	187	305	572	316
Hordaland	254	29	1 620	129	207	251	157
Sogn og Fjordane	279	35	1 829	116	151	301	335
Møre og Romsdal	283	40	1 989	120	162	495	398
Sør-Trøndelag	329	47	2 259	237	194	503	719
Nord-Trøndelag	261	44	2 215	191	196	449	670
Nordland	185	35	1 336	85	105	197	125
Troms	86	34	701	14	46	116	72
Finnmark	38	30	199	-	17	29	13
Agricultural area in use							
- 4 decares ³	42	15	108	4	13	47	5
5 - 49 "	643	31	4 315	413	482	1 809	666
50 - 99 "	893	36	5 979	643	719	1 440	1 254
100 - 199 "	1 353	43	9 532	904	1 023	1 321	2 091
200 - 299 "	702	50	5 138	386	577	627	1 098
300 - 499 "	468	56	2 978	219	447	427	569
500 - "	256	66	1 047	93	229	191	168
Holders⁴ by gender							
Legal persons	118	25	194	11	42	50	27
Males	3 757	42	25 706	2 315	3 038	4 953	5 131
Females	482	35	3 197	336	410	859	693
Holders⁴ by age group							
Legal persons	118	25	194	11	42	50	27
- 29 years	211	43	1 574	89	127	229	233
30 - 39 "	998	47	6 711	592	698	1 131	1 238
40 - 49 "	1 389	44	8 922	802	1 122	1 705	1 792
50 - 59 "	1 206	41	7 843	757	1 036	1 655	1 688
60 - 69 "	398	33	3 304	360	407	835	749
70 - "	38	24	549	51	58	257	124
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	185	34	601	59	68	233	99
100 - 499 "	546	37	4 169	422	630	1 487	793
500 - 999 "	557	38	3 972	383	587	1 179	718
1 000 - 1 499 "	509	38	3 068	297	419	695	630
1 500 - 1 999 "	401	41	2 528	245	325	431	503
2 000 - 2 999 "	816	44	5 305	497	552	679	1 097
3 000 - 3 999 "	643	45	4 782	399	423	530	1 011
4 000 - "	700	47	4 672	360	486	628	1 000

¹ One man-year is equal to 1 875 man-hours. ² Table 8.15 covers to pages. ³ Comprise mainly joint operations with milk production and holdings in horticulture. ⁴ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

8.15. Holdings¹ by type of supplementary industry, county and various structural classifications. 1 August 1998-31 July 1999
 (cont.).

	Contracting work with tractor, combine harvester etc.	Camping site, cabin renting, farm tourism etc.	Processing own timber for sale	Production and sale of Christmas trees or decorative greenery	Arts and crafts or light industry	Fur farming	Other supplementary industries
Total	14 076	3 106	3 714	1 068	1 066	683	2 176
County							
Østfold	867	87	181	65	53	6	154
Akershus and Oslo	891	79	117	45	52	6	191
Hedmark	1 316	196	202	42	85	47	152
Oppland	1 599	329	314	59	114	102	208
Buskerud	920	394	220	54	63	22	148
Vestfold	673	76	107	66	32	4	127
Telemark	622	198	164	50	61	24	99
Aust-Agder	321	71	113	29	26	24	51
Vest-Agder	430	98	221	79	23	9	65
Rogaland	798	202	221	120	65	55	155
Hordaland	665	241	301	120	85	20	147
Sogn og Fjordane	718	340	296	63	74	106	111
Møre og Romsdal	925	220	271	73	65	69	107
Sør-Trøndelag	960	220	345	66	85	122	138
Nord-Trøndelag	1 127	172	236	69	73	26	155
Nordland	738	112	259	38	57	29	108
Troms	389	47	139	29	39	10	34
Finnmark	117	24	7	1	14	2	26
Agricultural area in use							
- 4 decares ²	29	4	3	4	-	-	23
5 - 49 "	840	556	520	218	207	174	344
50 - 99 "	2 049	763	807	227	246	171	478
100 - 199 "	5 063	1 032	1 372	322	349	233	700
200 - 299 "	3 264	454	642	159	179	73	331
300 - 499 "	2 050	220	289	108	68	25	215
500 - "	781	77	81	30	17	7	85
Holders³ by gender							
Legal persons	69	20	22	11	4	5	49
Males	13 082	2 647	3 398	943	903	624	1 774
Females	925	439	294	114	159	54	353
Holders³ by age group							
Legal persons	69	20	22	11	4	5	49
- 29 years	1 039	100	218	34	20	23	104
30 - 39 "	3 923	600	954	265	214	153	530
40 - 49 "	4 463	1 034	1 165	329	386	212	685
50 - 59 "	3 377	929	926	296	319	199	575
60 - 69 "	1 130	377	378	119	108	81	206
70 - "	75	46	51	14	15	10	27
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	132	68	87	37	25	63	71
100 - 499 "	1 284	406	452	169	147	87	290
500 - 999 "	1 446	393	470	165	146	77	310
1 000 - 1 499 "	1 295	368	395	128	118	83	247
1 500 - 1 999 "	1 194	289	337	79	113	77	202
2 000 - 2 999 "	2 935	602	772	177	201	146	396
3 000 - 3 999 "	2 886	544	647	148	160	88	292
4 000 - "	2 904	436	554	165	156	62	368

¹ Table 8.15 covers to pages. ² Comprise mainly joint operations with milk production and holdings in horticulture. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

9. Income, property, debt and assessed taxes

Chapter 9 comprises information based on tax returns and tax assessment of natural holders and their spouses/cohabitants. Tax information is retrieved from the Directorate of Taxes' registers on tax returns and tax assessment of personal taxpayers. This information is then joined with the data collected in the 1999 Agricultural Census.

Of altogether 69 959 holders (natural persons), 69 910 were linked to the registers in question. Lack of linkage might be because some holders are not Norwegian citizens, while others might have changed their personal identification number. In the basis of data used in chapter 9, information about cohabitants is retrieved from official population registers. In the other chapters, (excluding figures for highest education of holder or spouse/cohabitant in chapter 8) information on cohabitants is gathered from the responses given at the census questionnaire. The data gathered from census questionnaires indicates that the census covers about 14 100 holders without spouse/cohabitant. However, the official registers comprised about 17 700 holders without spouse/cohabitant. Consequently, the agricultural census covers 3 600 more cohabitants than the number registered in official registers.

In addition to data from the tax return and tax assessment, the code for highest completed education is retrieved from Statistics Norway's register of the level of education in Norway. Here too, education code is not given for 3 600 cohabitants.

Figures from the tax return gives an overview of taxable income, tax allowances, asset items and debts. The tax assessment provides, inter alia, other information on assessed taxes and tax allowances as well as a general view of income and property values used for estimating taxes. Statistics Norway has compiled annual tax return statistics since the income year of 1993, however this information has not been previously connected to agricultural statistics. On the contrary tax assessment data has been utilised in agricultural statistics since 1968 and is annually published in the NOS (Norway Official Statistics) Agricultural Statistics.

For holders (natural persons) operating their own holding and participating in joint operations organised as a general partnership, figures for income and assets include both figures for own holding and the part of the joint operation (partner assessment).

In this chapter, information about various types of income, debt, interest expense etc, does not only comprise figures for agricultural activity but also all

information given by the individual taxpayer in the tax return. *Figures from the tax return and tax assessment only cover taxable income. The amounts are therefore determined by the tax regulations in force at that time. All values connected to assets are tax assessment values.*

For definition of the main terms see chapter 1.3. "Terms and variables".

In the data from the tax return, general income can be negative if the sum of income allowance is greater than gross income. Net assets can also be negative if debt is greater than gross assets. The data from tax assessment does not comprise negative values and negative values for general income and net assets were made equal to zero. As a result, total figures and average figures for general income and net assets may show discrepancies, when using figures from the two sources.

In the tax assessment figures for pensionable income, income from self-employment in agriculture is summed up with self-employment income from forestry and fishing.

With the exception of tables 9.4 and 9.5, all the tables in chapter 9 cover both holders and spouses/cohabitants.

9.1. Income

In 1999 average gross income for holders was NOK 285 100. On average, income from employment constituted more than income from self-employment in agriculture, 39 and 33 per cent respectively. Not unexpectedly, income from employment declines as size of the holding increases, while income from self-employment in agriculture increases.

Average gross income among spouses/cohabitants was NOK 137 600, representing barely half of the average gross income for holders. Income from employment is clearly greatest: 63 per cent, while income from self-employment in agriculture is 17 per cent.

In 1999 income from self-employment in agriculture was on average NOK 116 700 per holding. As much as 22 per cent of the holdings did not have positive income from employment in agriculture. The proportion of this group was particularly high for holdings operating less than 100 decares of agricultural area and for holdings where the holder was 70 years or above. Income from employment in agriculture constituted 90 per cent of total gross income for the holder and spouse/cohabitant, at only 8 per cent of the holdings.

Figure 9.1. Distribution of gross income of holders and spouses/cohabitants, by type of income. The whole country. 1999. Per cent

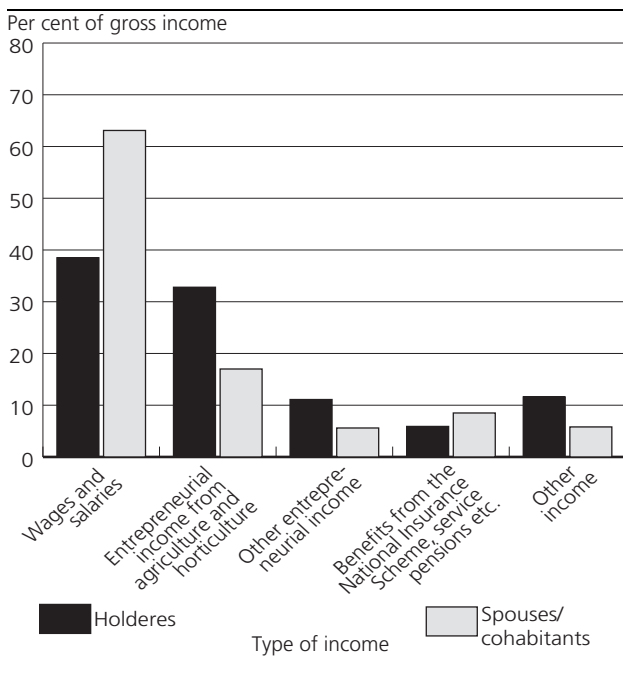
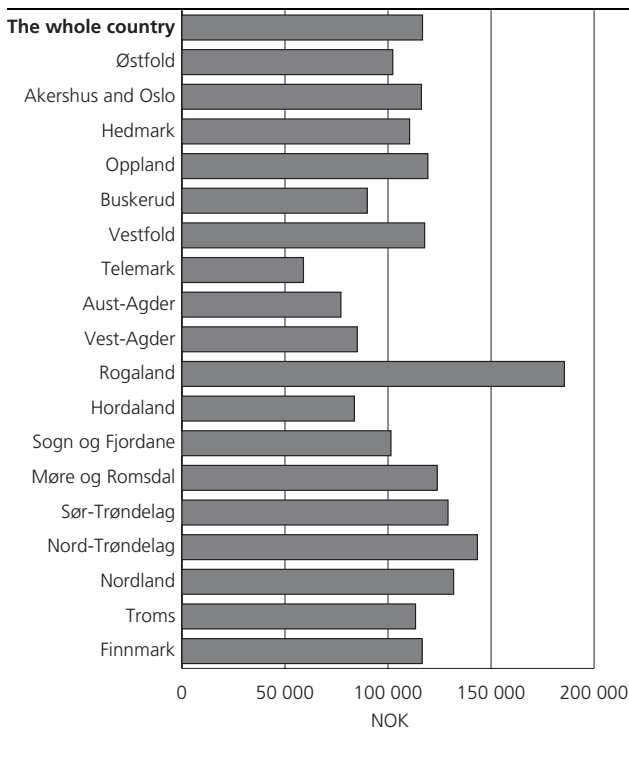


Figure 9.2. Entrepreneurial income from agriculture and horticulture per holding, by county. 1999. NOK



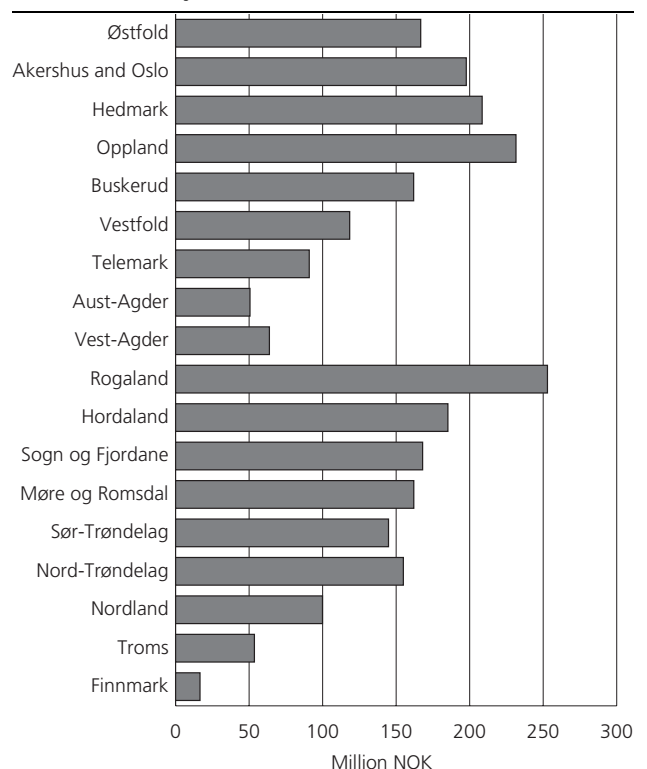
9.2. Property, debt and taxes

On average debt interest constituted NOK 40 400 per holding. About 10 per cent of holdings with holders (natural persons) did not have interest expenses, while 8 per cent of the holdings had NOK 100 000 or more of annual interest expenses. Interest expenses were greatest at holdings operating less than 5 decares of agricultural area, at holdings operating more than 300 decares of agricultural area and at holdings where the holder was below 50 years. The debt figures showed an average of NOK 641 600 per holding. Naturally, those holdings with high interest expenses also had the greatest debt. 6 per cent of the holdings were without debt, while 4 per cent had debt over NOK 2 million.

The tax assessment value of agricultural property was on average NOK 334 500. For counties this figure varied from NOK 198 000 in Aust-Agder to NOK 466 500 in Rogaland.

In 1999 there was an average estimated gross tax of NOK 112 300 per holding. Of this, NOK 36 160 constituted income and property tax to the municipality. Total gross income and property tax to the municipality was NOK 2 528 million. Net tax was altogether NOK 7 492 million or NOK 107 200 per holding.

Figure 9.3. Income and property taxes to the municipality, by county. 1999. Million NOK



9.1. Holdings with/without information from the tax return account and the tax assessment register¹, by county and various structural classifications. 1999

	Holdings, total	Holdings without tax information ²	Holdings with natural person as holder ³ and with tax information		
			Total	Males	Females
Total	70 740	830	69 910	60 871	9 039
County					
Østfold	3 604	31	3 573	3 152	421
Akershus and Oslo	3 484	42	3 442	3 041	401
Hedmark	5 974	61	5 913	5 079	834
Oppland	7 054	113	6 941	6 095	846
Buskerud	3 820	25	3 795	3 277	518
Vestfold	2 463	27	2 436	2 179	257
Telemark	2 616	25	2 591	2 173	418
Aust-Agder	1 258	13	1 245	1 073	172
Vest-Agder	1 994	18	1 976	1 732	244
Rogaland	6 189	84	6 105	5 426	679
Hordaland	5 595	62	5 533	4 794	739
Sogn og Fjordane	5 295	53	5 242	4 481	761
Møre og Romsdal	5 018	60	4 958	4 276	682
Sør-Trøndelag	4 805	64	4 741	4 265	476
Nord-Trøndelag	5 026	86	4 940	4 450	490
Nordland	3 833	39	3 794	3 192	602
Troms	2 054	19	2 035	1 675	360
Finnmark	658	8	650	511	139
Agricultural area in use					
- 4 decares ⁴	729	458	271	220	51
5 - 49 "	13 788	101	13 687	11 313	2 374
50 - 99 "	16 720	61	16 659	14 137	2 522
100 - 199 "	22 286	73	22 213	19 601	2 612
200 - 299 "	10 367	43	10 324	9 361	963
300 - 499 "	5 273	48	5 225	4 801	424
500 - "	1 577	46	1 531	1 438	93
Holders³ by gender					
Legal persons	781	781	.	.	.
Males	60 914	43	60 871	60 871	.
Females	9 045	6	9 039	.	9 039
Holders³ by age group					
Legal persons	781	781	.	.	.
- 29 years	3 656	4	3 652	2 967	685
30 - 39 "	14 267	8	14 259	11 936	2 323
40 - 49 "	20 447	11	20 436	18 133	2 303
50 - 59 "	19 276	11	19 265	17 304	1 961
60 - 69 "	9 981	11	9 970	8 577	1 393
70 - "	2 332	4	2 328	1 954	374
Total employment in agriculture and horticulture on the holding					
- 99 man-hours	1 784	11	1 773	1 533	240
100 - 499 "	11 385	51	11 334	9 824	1 510
500 - 999 "	10 586	46	10 540	9 012	1 528
1 000 - 1 499 "	8 047	40	8 007	6 721	1 286
1 500 - 1 999 "	6 181	66	6 115	5 174	941
2 000 - 2 999 "	12 122	151	11 971	10 494	1 477
3 000 - 3 999 "	10 637	142	10 495	9 431	1 064
4 000 - "	9 998	323	9 675	8 682	993

¹ Information from the tax return account and the tax assessment register is given by the Directorate of Taxes. ² Comprise holdings where the holder is a legal person or the holder is a natural person without tax information. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ⁴ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

9.2. Gross income^{1, 2}. Refer to holders³ and spouses/cohabitants, by county and various structural classifications. 1999. Million NOK

	Gross income, total	Wages and salaries	Entrepreneurial income		Benefits from the National Insurance Scheme, service pensions etc.	Other income ⁵
			Agriculture and horticulture ⁴	Other		
Total	29 550	13 750	8 161	2 765	2 000	2 874
County						
Østfold	1 946	821	366	216	102	441
Akershus and Oslo	2 017	885	400	243	98	392
Hedmark	2 509	1 188	653	317	185	165
Oppland	2 691	1 172	828	297	183	210
Buskerud	1 800	853	341	297	104	205
Vestfold	1 276	578	287	151	68	191
Telemark	1 086	606	153	126	93	108
Aust-Agder	547	248	96	64	44	95
Vest-Agder	778	410	168	62	78	60
Rogaland	2 822	1 133	1 133	163	141	252
Hordaland	2 220	1 254	463	156	175	172
Sogn og Fjordane	1 960	1 008	532	126	156	138
Møre og Romsdal	1 948	940	614	122	144	129
Sør-Trøndelag	1 767	804	612	126	114	112
Nord-Trøndelag	1 921	840	708	165	103	105
Nordland	1 335	576	500	77	120	61
Troms	705	338	231	41	67	29
Finnmark	224	97	76	15	26	10
Agricultural area in use						
- 4 decares ⁶	123	37	37	23	9	17
5 - 49 "	5 311	3 380	355	423	664	489
50 - 99 "	6 457	3 793	941	597	582	545
100 - 199 "	9 064	3 991	2 991	852	484	746
200 - 299 "	4 544	1 543	2 070	422	163	345
300 - 499 "	2 690	785	1 265	282	78	280
500 - "	1 362	221	502	167	19	453
Holders³ by gender						
Males	25 946	11 922	7 487	2 450	1 554	2 533
Females	3 604	1 829	674	315	445	341
Holders³ by age group						
- 29 years	1 043	576	315	101	10	40
30 - 39 "	5 998	3 040	1 658	613	86	601
40 - 49 "	9 698	5 012	2 642	1 000	228	817
50 - 59 "	8 663	4 139	2 461	764	463	836
60 - 69 "	3 564	964	1 014	263	858	466
70 - "	585	19	72	25	355	114
Holders³ and spouses/cohabitants by highest level of education						
Compulsory primary and lower secondary school	2 347	674	749	203	511	210
Upper secondary school	18 769	8 166	5 842	1 795	1 183	1 784
College or university	8 434	4 911	1 571	767	305	881
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	710	464	21	78	77	70
100 - 499 "	4 989	3 222	269	571	422	506
500 - 999 "	4 508	2 834	404	506	382	381
1 000 - 1 499 "	3 358	1 977	455	383	274	269
1 500 - 1 999 "	2 450	1 256	508	258	203	225
2 000 - 2 999 "	4 695	1 831	1 735	402	303	425
3 000 - 3 999 "	4 199	1 260	2 163	293	191	292
4 000 - "	4 641	906	2 607	274	147	706

¹ Comprise holdings with natural person as holder and with tax information. ² Gross income according to the tax return account without deductions. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ⁴ Comprise profit according to the tax questionnaire on accounting and entrepreneurial sickness benefits. ⁵ Comprise interest income, dividends, realized capital gains of shares etc. ⁶ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

9.3. Average gross income^{1,2}. Refer to holders³ and spouses/cohabitants, by county and various structural classifications. 1999. NOK

	Gross income, total	Wages and salaries	Entrepreneurial income		Benefits from the National Insurance Scheme, service pensions etc.	Other income ⁵
			Agriculture and horticulture ⁴	Other		
Total	422 686	196 686	116 741	39 549	28 602	41 108
County						
Østfold	544 558	229 663	102 310	60 568	28 530	123 487
Akershus and Oslo	586 053	257 068	116 222	70 663	28 314	113 784
Hedmark	424 313	200 967	110 466	53 654	31 292	27 933
Oppland	387 628	168 915	119 348	42 807	26 318	30 241
Buskerud	474 344	224 774	89 935	78 285	27 373	53 977
Vestfold	523 615	237 438	117 773	62 130	28 021	78 252
Telemark	419 038	233 840	58 966	48 734	36 028	41 471
Aust-Agder	439 337	199 304	77 139	51 199	35 176	76 520
Vest-Agder	393 651	207 367	85 091	31 509	39 249	30 435
Rogaland	462 250	185 532	185 599	26 743	23 115	41 260
Hordaland	401 238	226 684	83 678	28 128	31 638	31 109
Sogn og Fjordane	373 812	192 288	101 429	23 975	29 805	26 315
Møre og Romsdal	392 977	189 522	123 856	24 532	28 997	26 069
Sør-Trøndelag	372 797	169 507	129 123	26 493	24 026	23 648
Nord-Trøndelag	388 802	169 982	143 397	33 377	20 898	21 148
Nordland	351 797	151 901	131 838	20 359	31 725	15 974
Troms	346 418	166 139	113 353	20 068	32 670	14 189
Finnmark	344 035	148 727	116 560	23 696	39 161	15 890
Agricultural area in use						
- 4 decares ⁶	453 292	136 572	136 573	84 250	33 607	62 290
5 - 49 "	388 024	246 945	25 953	30 892	48 480	35 754
50 - 99 "	387 604	227 675	56 465	35 818	34 941	32 706
100 - 199 "	408 066	179 688	134 662	38 337	21 804	33 575
200 - 299 "	440 097	149 426	200 543	40 905	15 831	33 392
300 - 499 "	514 752	150 282	242 025	53 948	15 014	53 484
500 - "	889 399	144 512	328 056	108 936	12 156	295 740
Holders³ by gender						
Males	426 251	195 852	123 002	40 250	25 531	41 616
Females	398 685	202 302	74 579	34 832	49 281	37 691
Holders³ by age group						
- 29 years	285 507	157 817	86 277	27 595	2 842	10 976
30 - 39 "	420 614	213 171	116 276	42 990	6 034	42 144
40 - 49 "	474 564	245 256	129 260	48 924	11 134	39 990
50 - 59 "	449 689	214 863	127 744	39 666	24 048	43 369
60 - 69 "	357 458	96 680	101 675	26 337	86 038	46 727
70 - "	251 079	8 200	30 949	10 558	152 295	49 076
Holders³ and spouses/cohabitants by highest level of education						
Compulsory primary and lower secondary school	270 389	77 652	86 265	23 410	58 898	24 163
Upper secondary school	406 898	177 025	126 647	38 903	25 655	38 668
College or university	558 454	325 163	104 002	50 801	20 188	58 301
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	400 551	261 828	11 640	43 944	43 470	39 670
100 - 499 "	440 206	284 287	23 690	50 342	37 253	44 633
500 - 999 "	427 728	268 855	38 368	48 041	36 281	36 184
1 000 - 1 499 "	419 403	246 934	56 840	47 797	34 257	33 575
1 500 - 1 999 "	400 629	205 460	83 031	42 242	33 111	36 784
2 000 - 2 999 "	392 210	152 954	144 900	33 559	25 322	35 475
3 000 - 3 999 "	400 062	120 016	206 130	27 922	18 206	27 788
4 000 - "	479 636	93 653	269 462	28 346	15 182	72 993

¹ Comprise holdings with natural person as holder and with tax information. ² Gross income according to the tax return account without deductions. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ⁴ Comprise profit according to the tax questionnaire on accounting and entrepreneurial sickness benefits. ⁵ Comprise interest income, dividends, realized capital gains of shares etc. ⁶ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

9.4. Average gross income^{1,2}. Refer to holders³, by county and various structural classifications. 1999. NOK

	Gross income, total	Wages and salaries	Entrepreneurial income		Benefits from the National Insurance Scheme, service pensions etc.	Other income ⁵
			Agriculture and horticulture ⁴	Other		
Total	285 096	109 894	93 405	31 783	16 912	33 102
County						
Østfold	393 368	133 725	80 555	49 479	17 100	112 509
Akershus and Oslo	421 399	150 872	97 336	58 113	16 631	98 446
Hedmark	288 149	111 673	91 527	44 568	18 846	21 535
Oppland	261 779	92 874	96 099	34 318	15 821	22 667
Buskerud	329 926	131 270	73 214	65 877	17 701	41 865
Vestfold	363 459	142 301	93 812	51 338	17 410	58 598
Telemark	282 087	139 535	47 662	41 208	21 502	32 180
Aust-Agder	297 242	110 902	63 283	41 219	20 426	61 414
Vest-Agder	267 187	124 531	69 020	25 528	24 752	23 356
Rogaland	304 732	100 088	136 589	20 737	14 458	32 860
Hordaland	266 322	134 209	67 462	21 654	19 065	23 933
Sogn og Fjordane	244 693	105 687	82 013	18 291	18 000	20 701
Møre og Romsdal	258 647	104 763	99 589	18 657	15 821	19 816
Sør-Trøndelag	248 523	90 173	103 693	21 136	14 459	19 062
Nord-Trøndelag	257 303	87 464	115 976	26 649	11 424	15 790
Nordland	224 048	73 913	107 467	14 061	16 813	11 795
Troms	219 860	86 160	92 684	14 355	16 603	10 059
Finnmark	218 639	73 493	95 588	16 276	21 501	11 781
Agricultural area in use						
- 4 decares ⁶	314 445	67 974	104 786	65 762	23 100	52 823
5 - 49 "	261 171	155 949	20 972	23 965	31 795	28 489
50 - 99 "	261 003	139 349	46 167	28 733	21 268	25 486
100 - 199 "	272 882	95 359	108 462	31 097	11 702	26 262
200 - 299 "	292 141	65 818	159 771	32 971	7 636	25 944
300 - 499 "	342 835	63 197	189 286	43 477	7 440	39 435
500 - "	688 601	52 576	259 715	90 857	5 821	279 632
Holders³ by gender						
Males	298 556	112 821	99 407	34 382	16 600	35 345
Females	194 452	90 185	52 982	14 278	19 009	17 999
Holders³ by age group						
- 29 years	227 029	112 385	79 554	24 624	1 329	9 137
30 - 39 "	293 277	123 511	97 574	34 332	2 801	35 059
40 - 49 "	314 143	135 504	102 563	39 071	5 241	31 764
50 - 59 "	295 143	117 936	99 280	31 927	11 252	34 749
60 - 69 "	236 491	46 766	77 792	20 712	54 805	36 416
70 - "	196 109	1 594	27 444	9 633	114 797	42 642
Holders³ and spouses/cohabitants by highest level of education						
Compulsory primary and lower secondary school	206 865	51 522	73 401	20 400	40 474	21 068
Upper secondary school	278 856	102 069	99 322	31 314	14 568	31 583
College or university	349 125	167 351	86 831	39 757	10 526	44 659
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	280 736	169 811	10 956	36 652	30 217	33 100
100 - 499 "	306 136	184 159	21 121	41 401	24 236	35 219
500 - 999 "	294 279	170 120	33 087	39 670	22 697	28 704
1 000 - 1 499 "	281 540	148 654	47 311	38 515	20 875	26 185
1 500 - 1 999 "	269 743	116 720	69 419	34 471	20 108	29 025
2 000 - 2 999 "	261 011	70 288	122 481	26 483	13 545	28 214
3 000 - 3 999 "	260 583	42 591	167 525	21 345	8 537	20 585
4 000 - "	320 279	31 927	195 831	21 639	7 541	63 341

¹ Comprise holdings with natural person as holder and with tax information. ² Gross income according to the tax return account without deductions. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ⁴ Comprise profit according to the tax questionnaire on accounting and entrepreneurial sickness benefits. ⁵ Comprise interest income, dividends, realized capital gains of shares etc. ⁶ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

9.5. Average gross income^{1, 2}. Refer to spouses/cohabitants, by county and various structural classifications. 1999. NOK

	Gross income, total	Wages and salaries	Entrepreneurial income		Benefits from the National Insurance Scheme, service pensions etc.	Other ⁴
			Agriculture and horticulture ³	Other		
Total	137 591	86 792	23 336	7 767	11 690	8 006
County						
Østfold	151 190	95 938	21 755	11 088	11 430	10 979
Akershus and Oslo	164 654	106 196	18 886	12 550	11 683	15 338
Hedmark	136 164	89 294	18 938	9 086	12 447	6 399
Oppland	125 849	76 041	23 249	8 489	10 496	7 574
Buskerud	144 418	93 504	16 722	12 408	9 672	12 112
Vestfold	160 155	95 137	23 961	10 792	10 611	19 654
Telemark	136 951	94 305	11 304	7 526	14 526	9 290
Aust-Agder	142 095	88 402	13 856	9 981	14 750	15 106
Vest-Agder	126 464	82 836	16 071	5 981	14 497	7 079
Rogaland	157 518	85 444	49 011	6 006	8 657	8 400
Hordaland	134 916	92 475	16 217	6 475	12 573	7 176
Sogn og Fjordane	129 119	86 601	19 416	5 683	11 806	5 614
Møre og Romsdal	134 330	84 759	24 267	5 875	13 177	6 253
Sør-Trøndelag	124 274	79 334	25 430	5 357	9 566	4 586
Nord-Trøndelag	131 499	82 518	27 421	6 728	9 474	5 358
Nordland	127 748	77 988	24 371	6 298	14 912	4 179
Troms	126 558	79 979	20 669	5 713	16 067	4 130
Finnmark	125 395	75 234	20 972	7 420	17 660	4 109
Agricultural area in use						
- 4 decares ⁵	138 847	68 598	31 786	18 488	10 507	9 467
5 - 49 "	126 854	90 996	4 981	6 927	16 685	7 265
50 - 99 "	126 601	88 326	10 298	7 085	13 673	7 219
100 - 199 "	135 185	84 329	26 200	7 240	10 101	7 314
200 - 299 "	147 956	83 607	40 771	7 934	8 195	7 449
300 - 499 "	171 916	87 084	52 739	10 470	7 574	14 049
500 - "	200 798	91 936	68 341	18 078	6 335	16 108
Holders⁶ by gender						
Males	127 695	83 031	23 594	5 868	8 931	6 271
Females	204 232	112 117	21 597	20 554	30 272	19 692
Holders⁶ by age group						
- 29 years	58 477	45 432	6 723	2 971	1 513	1 839
30 - 39 "	127 337	89 660	18 701	8 658	3 233	7 085
40 - 49 "	160 421	109 752	26 697	9 853	5 892	8 226
50 - 59 "	154 546	96 927	28 464	7 738	12 796	8 620
60 - 69 "	120 967	49 914	23 883	5 625	31 234	10 311
70 - "	54 970	6 607	3 505	925	37 499	6 435
Holders³ and spouses/cohabitants by highest level of education						
Compulsory primary and lower secondary school	63 523	26 130	12 864	3 009	18 424	3 096
Upper secondary school	128 042	74 956	27 326	7 589	11 087	7 085
College or university	209 330	157 812	17 170	11 043	9 662	13 642
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	119 814	92 017	684	7 291	13 253	6 570
100 - 499 "	134 070	100 129	2 569	8 941	13 017	9 414
500 - 999 "	133 449	98 735	5 280	8 371	13 583	7 480
1 000 - 1 499 "	137 862	98 280	9 529	9 283	13 382	7 390
1 500 - 1 999 "	130 886	88 740	13 612	7 771	13 003	7 759
2 000 - 2 999 "	131 199	82 666	22 419	7 076	11 777	7 261
3 000 - 3 999 "	139 479	77 425	38 605	6 577	9 670	7 202
4 000 - "	159 357	61 725	73 631	6 707	7 641	9 652

¹ Comprise holdings with natural person as holder and with tax information. ² Gross income according to the tax return account without deductions. ³ Comprise profit according to the tax questionnaire on accounting and entrepreneurial sickness benefits. ⁴ Comprise interest income, dividends, realized capital gains of shares etc. ⁵ Comprise mainly holdings in horticulture. ⁶ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

9.6. Entrepreneurial income from agriculture and horticulture^{1,2}. Holdings by entrepreneurial income from agriculture and horticulture. Refer to holders³ and spouses/cohabitants, by county and various structural classifications. 1999

	Entrepreneurial income from agriculture and horticulture		Holdings by entrepreneurial income from agriculture and horticulture in NOK					
	Total	Per holding	Total	Without positiv income	1-49 999	50 000-99 999	100 000-199 999	200 000-
	Million NOK	NOK			Per cent			
Total	8 161,4	116 741	69 910	22,1	23,5	12,6	18,4	23,4
County								
Østfold	365,6	102 310	3 573	27,5	27,8	11,8	13,9	19,0
Akershus and Oslo	400,0	116 222	3 442	25,9	25,1	12,6	15,1	21,3
Hedmark	653,2	110 466	5 913	26,3	24,5	11,9	15,9	21,4
Oppland	828,4	119 348	6 941	21,4	20,5	12,5	21,4	24,3
Buskerud	341,3	89 935	3 795	29,2	27,6	13,0	15,0	15,2
Vestfold	286,9	117 773	2 436	26,1	27,7	12,5	11,9	21,8
Telemark	152,8	58 966	2 591	34,6	30,7	13,3	13,6	7,8
Aust-Agder	96,0	77 139	1 245	29,2	28,4	14,4	15,9	12,0
Vest-Agder	168,1	85 091	1 976	27,5	29,4	11,1	16,7	15,3
Rogaland	1 133,1	185 599	6 105	12,8	18,3	10,6	17,8	40,5
Hordaland	463,0	83 678	5 533	27,1	28,1	13,4	16,6	14,8
Sogn og Fjordane	531,7	101 429	5 242	17,4	27,0	15,0	22,3	18,4
Møre og Romsdal	614,1	123 856	4 958	19,7	20,2	12,4	20,6	27,1
Sør-Trøndelag	612,2	129 123	4 741	17,9	18,8	12,3	22,8	28,2
Nord-Trøndelag	708,4	143 397	4 940	16,5	17,5	12,0	22,1	31,9
Nordland	500,2	131 838	3 794	15,6	20,3	13,6	21,8	28,7
Troms	230,7	113 353	2 035	20,0	22,0	14,6	20,1	23,2
Finnmark	75,8	116 560	650	22,9	23,8	13,7	14,2	25,4
Agricultural area in use								
- 4 decares ⁴	37,0	136 573	271	38,7	14,8	8,1	13,7	24,7
5 - 49 "	355,2	25 953	13 687	49,9	37,4	6,8	3,6	2,3
50 - 99 "	940,6	56 465	16 659	27,3	36,0	16,8	14,7	5,2
100 - 199 "	2 991,2	134 662	22 213	12,5	17,6	15,7	26,8	27,4
200 - 299 "	2 070,4	200 543	10 324	7,2	8,8	10,3	24,7	49,0
300 - 499 "	1 264,6	242 025	5 225	6,5	6,7	8,5	22,0	56,3
500 - "	502,3	328 056	1 531	7,2	4,4	5,3	15,7	67,4
Holders³ by gender								
Males	7 487,2	123 002	60 871	20,9	22,7	12,4	18,8	25,2
Females	674,1	74 579	9 039	29,9	28,8	14,1	15,8	11,5
Holders³ by age group								
- 29 years	315,1	86 277	3 652	31,2	21,4	13,0	19,7	14,7
30 - 39 "	1 658,0	116 276	14 259	23,9	20,3	12,2	20,6	23,0
40 - 49 "	2 641,6	129 260	20 436	20,6	22,1	12,2	18,3	26,8
50 - 59 "	2 461,0	127 744	19 265	19,2	23,1	12,8	18,4	26,5
60 - 69 "	1 013,7	101 675	9 970	20,4	28,8	14,1	17,8	18,9
70 - "	72,0	30 949	2 328	41,4	38,4	10,5	7,1	2,5
Holders³ and spouses/cohabitants by highest level of education								
Compulsory primary and lower secondary school	748,9	86 265	8 681	22,9	29,4	14,7	18,4	14,6
Upper secondary school	5 841,9	126 647	46 127	20,0	22,3	12,4	19,3	26,1
College or university	1 570,6	104 002	15 102	28,1	23,7	12,2	15,9	20,2
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	20,6	11 640	1 773	64,6	29,2	3,7	1,5	1,0
100 - 499 "	268,5	23 690	11 334	47,2	38,4	9,0	3,7	1,6
500 - 999 "	404,4	38 368	10 540	34,8	40,4	14,3	7,6	2,9
1 000 - 1 499 "	455,1	56 840	8 007	25,2	37,3	19,4	12,6	5,6
1 500 - 1 999 "	507,7	83 031	6 115	19,6	28,3	20,5	20,7	10,9
2 000 - 2 999 "	1 734,6	144 900	11 971	9,7	13,3	16,2	33,4	27,4
3 000 - 3 999 "	2 163,3	206 130	10 495	4,8	5,7	8,9	30,7	49,9
4 000 - "	2 607,0	269 462	9 675	4,3	3,7	5,7	22,0	64,3

¹ Comprise holdings with natural person as holder and with tax information. ² Comprise profit according to the tax questionnaire on accounting and entrepreneurial sickness benefits. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ⁴ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

9.7. Holdings¹ by entrepreneurial income from agriculture and horticulture² as per cent of gross income³. Refer to holders⁴ and spouses/cohabitants, by county and various structural classifications. 1999

	Holdings, total	Entrepreneurial income from agriculture and horticulture as per cent of gross income				
		Without positive entrepreneurial income from agriculture and horticulture	1-9 per cent	10-49 per cent	50-89 per cent	90- per cent
						Per cent
Total	69 910	22,1	18,0	31,2	21,5	7,2
County						
Østfold	3 573	27,5	24,0	28,7	15,3	4,5
Akershus and Oslo	3 442	25,9	22,9	33,0	14,4	3,7
Hedmark	5 913	26,3	18,9	30,7	18,3	5,9
Oppland	6 941	21,4	14,7	30,7	25,5	7,7
Buskerud	3 795	29,2	23,0	31,1	13,9	2,8
Vestfold	2 436	26,1	24,6	28,6	16,0	4,7
Telemark	2 591	34,6	25,1	28,0	9,9	2,4
Aust-Agder	1 245	29,2	21,4	32,9	13,9	2,6
Vest-Agder	1 976	27,5	22,4	30,8	15,5	3,8
Rogaland	6 105	12,8	14,1	31,0	30,4	11,6
Hordaland	5 533	27,1	21,8	30,8	15,0	5,3
Sogn og Fjordane	5 242	17,4	18,8	36,2	21,3	6,4
Møre og Romsdal	4 958	19,7	15,3	31,8	24,2	8,9
Sør-Trøndelag	4 741	17,9	13,7	30,2	29,0	9,2
Nord-Trøndelag	4 940	16,5	13,3	30,8	29,8	9,6
Nordland	3 794	15,6	13,0	31,8	26,7	12,9
Troms	2 035	20,0	14,3	31,1	22,8	11,8
Finnmark	650	22,9	15,2	28,9	22,6	10,3
Agricultural area in use						
- 4 decares ⁵	271	38,7	11,1	21,4	16,2	12,5
5 - 49 "	13 687	49,9	29,1	15,9	3,2	1,9
50 - 99 "	16 659	27,3	26,8	32,9	9,8	3,3
100 - 199 "	22 213	12,5	13,6	37,8	27,2	8,9
200 - 299 "	10 324	7,2	7,1	33,0	39,6	13,1
300 - 499 "	5 225	6,5	5,9	33,6	40,4	13,6
500 - "	1 531	7,2	4,3	33,9	43,1	11,5
Holders⁴ by gender						
Males	60 871	20,9	17,6	30,8	22,9	7,7
Females	9 039	29,9	21,3	33,3	11,9	3,7
Holders⁴ by age group						
- 29 years	3 652	31,2	12,0	24,9	19,2	12,7
30 - 39 "	14 259	23,9	15,7	29,9	21,7	8,8
40 - 49 "	20 436	20,6	19,0	31,8	21,9	6,7
50 - 59 "	19 265	19,2	19,0	31,3	23,2	7,3
60 - 69 "	9 970	20,4	18,4	33,4	22,3	5,6
70 - "	2 328	41,4	23,4	32,2	2,9	0,1
Holders⁴ and spouses/cohabitants by highest level of education						
Compulsory primary and lower secondary school	8 681	22,9	15,9	30,4	20,8	10,0
Upper secondary school	46 127	20,0	16,8	30,6	24,3	8,3
College or university	15 102	28,1	23,1	33,4	13,2	2,3
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	1 773	64,6	26,0	7,6	1,1	0,8
100 - 499 "	11 334	47,2	32,6	17,4	1,7	1,1
500 - 999 "	10 540	34,8	32,3	28,4	3,3	1,2
1 000 - 1 499 "	8 007	25,2	28,6	38,4	6,2	1,7
1 500 - 1 999 "	6 115	19,6	19,6	44,0	12,8	4,0
2 000 - 2 999 "	11 971	9,7	8,4	43,9	29,5	8,4
3 000 - 3 999 "	10 495	4,8	3,3	33,3	45,2	13,5
4 000 - "	9 675	4,3	2,1	22,5	50,7	20,4

¹ Comprise holdings with natural person as holder and with tax information. ² Comprise profit according to the tax questionnaire on accounting and entrepreneurial sickness benefits. ³ Gross income according to the tax return account without deductions. ⁴ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ⁵ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

9.8. Interest paid¹. Refer to holders² and spouses/cohabitants, by county and various structural classifications. 1999

	Interest paid		Holdings by interest paid in NOK				
	Total	Per holding	Total	Without interest paid	1 - 49 999	50 000 - 99 999	100 000-
	Million NOK	NOK		Per cent			
Total	2821,5	40 359	69 910	10,7	60,4	20,3	8,6
County							
Østfold	184,2	51 546	3 573	8,3	59,3	20,6	11,7
Akershus and Oslo	171,4	49 794	3 442	8,7	58,4	21,2	11,7
Hedmark	274,5	46 427	5 913	9,7	58,3	20,3	11,7
Oppland	250,2	36 047	6 941	11,0	63,5	18,7	6,8
Buskerud	152,4	40 165	3 795	11,8	62,5	17,7	8,0
Vestfold	136,1	55 891	2 436	8,6	56,3	21,9	13,2
Telemark	83,8	32 328	2 591	12,2	65,5	16,9	5,4
Aust-Agder	43,0	34 499	1 245	12,4	63,1	18,6	5,9
Vest-Agder	67,8	34 295	1 976	15,1	59,9	17,8	7,2
Rogaland	274,7	45 000	6 105	9,4	56,7	21,4	12,4
Hordaland	166,7	30 127	5 533	16,2	63,4	16,6	3,7
Sogn og Fjordane	140,5	26 806	5 242	16,2	65,2	15,1	3,5
Møre og Romsdal	183,2	36 958	4 958	10,5	61,1	21,2	7,2
Sør-Trøndelag	181,0	38 177	4 741	9,2	61,2	22,1	7,6
Nord-Trøndelag	230,3	46 621	4 940	6,0	56,6	26,9	10,5
Nordland	175,2	46 169	3 794	8,4	55,3	24,2	12,1
Troms	79,2	38 905	2 035	8,8	60,9	23,8	6,5
Finnmark	27,3	42 043	650	9,2	57,8	24,9	8,0
Agricultural area in use							
- 4 decares ³	19,2	70 896	271	8,9	50,2	19,6	21,4
5 - 49 "	349,2	25 511	13 687	22,1	62,4	12,2	3,4
50 - 99 "	476,9	28 628	16 659	14,7	67,1	14,5	3,7
100 - 199 "	872,7	39 287	22 213	6,9	63,1	22,9	7,1
200 - 299 "	552,1	53 477	10 324	3,2	53,2	29,5	14,1
300 - 499 "	355,3	67 998	5 225	2,2	45,4	29,6	22,8
500 - "	196,1	128 111	1 531	1,8	32,0	25,1	41,1
Holders² by gender							
Males	2487,7	40 868	60 871	10,2	60,6	20,4	8,7
Females	333,8	36 931	9 039	14,0	58,7	19,5	7,8
Holders² by age group							
- 29 years	169,5	46 406	3 652	5,1	57,1	27,8	10,1
30 - 39 "	774,8	54 340	14 259	3,4	54,1	29,9	12,6
40 - 49 "	1002,2	49 042	20 436	4,7	60,0	24,5	10,8
50 - 59 "	679,2	35 256	19 265	9,3	67,4	16,3	7,0
60 - 69 "	183,1	18 364	9 970	26,3	63,8	7,4	2,5
70 - "	12,6	5 433	2 328	62,6	35,1	1,4	0,9
Holders² and spouses/cohabitants by highest level of education							
Compulsory primary and lower secondary school	191,1	22 008	8 681	27,9	57,6	10,8	3,7
Upper secondary school	1902,6	41 247	46 127	8,9	61,1	21,2	8,7
College or university	727,8	48 194	15 102	6,3	59,7	23,0	11,1
Total employment in agriculture and horticulture on the holding							
- 99 man-hours	51,9	29 259	1 773	17,9	62,2	15,6	4,4
100 - 499 "	351,1	30 978	11 334	15,5	63,4	16,3	4,8
500 - 999 "	324,7	30 808	10 540	14,8	64,1	16,4	4,8
1 000 - 1 499 "	264,7	33 055	8 007	13,4	63,6	17,1	5,8
1 500 - 1 999 "	212,6	34 762	6 115	12,5	62,3	18,6	6,7
2 000 - 2 999 "	507,9	42 430	11 971	8,4	60,4	22,3	8,9
3 000 - 3 999 "	493,2	46 998	10 495	5,5	57,4	25,7	11,4
4 000 - "	615,4	63 605	9 675	4,5	51,8	25,6	18,0

¹ Comprise holdings with natural person as holder and with tax information. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ³ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

9.9. Debt¹. Refer to holders² and spouses/cohabitants, by county and various structural classifications. 1999

	Debt		Holdings by debt in million NOK					
	Total	Per holding	Total	Without debt	0.1-0.4	0.5-0.9	1.0-1.9	2.0-
	Million NOK	NOK			Per cent			
Total	44 853,2	641 585	69 910	6,4	48,4	25,2	15,7	4,2
County								
Østfold	3 021,8	845 733	3 573	4,2	45,8	25,0	18,2	6,8
Akershus and Oslo	2 878,5	836 297	3 442	5,1	44,2	24,8	18,3	7,5
Hedmark	4 339,1	733 826	5 913	5,8	47,3	23,9	15,9	7,1
Oppland	4 087,7	588 920	6 941	5,1	51,7	25,5	14,5	3,2
Buskerud	2 516,3	663 066	3 795	5,7	51,4	23,3	14,6	5,0
Vestfold	2 299,3	943 881	2 436	3,9	43,3	24,5	19,2	9,0
Telemark	1 295,0	499 795	2 591	6,9	56,2	24,2	10,2	2,4
Aust-Agder	675,2	542 366	1 245	8,3	54,0	23,5	11,3	2,9
Vest-Agder	1 025,6	519 028	1 976	12,1	49,4	23,1	11,9	3,5
Rogaland	4 786,6	784 053	6 105	4,5	40,6	24,6	23,5	6,8
Hordaland	2 579,4	466 178	5 533	11,6	54,4	22,8	9,3	1,9
Sogn og Fjordane	2 331,5	444 766	5 242	8,5	57,5	22,3	10,2	1,5
Møre og Romsdal	2 729,8	550 575	4 958	7,3	49,0	26,6	14,8	2,4
Sør-Trøndelag	2 744,9	578 978	4 741	5,2	49,6	27,4	15,1	2,6
Nord-Trøndelag	3 621,3	733 063	4 940	3,5	40,4	29,9	21,8	4,5
Nordland	2 438,2	642 658	3 794	6,9	44,3	26,9	18,5	3,4
Troms	1 104,6	542 799	2 035	7,7	47,9	28,8	13,3	2,2
Finnmark	378,3	581 962	650	9,2	43,4	30,2	14,8	2,4
Agricultural area in use								
- 4 decares ³	314,2	1 159 234	271	7,0	33,6	22,9	21,4	15,2
5 - 49 "	5 045,9	368 665	13 687	19,0	56,0	17,3	6,1	1,6
50 - 99 "	7 080,8	425 044	16 659	7,4	62,2	21,3	7,5	1,6
100 - 199 "	13 846,8	623 366	22 213	2,2	48,9	30,0	16,2	2,7
200 - 299 "	9 026,7	874 340	10 324	1,0	33,0	32,1	27,9	6,1
300 - 499 "	5 991,3	1 146 668	5 225	0,8	24,5	26,8	34,7	13,2
500 - "	3 547,5	2 317 103	1 531	0,7	14,0	17,5	33,8	33,9
Holders² by gender								
Males	39 674,8	651 785	60 871	6,0	48,4	25,4	15,9	4,4
Females	5 178,4	572 893	9 039	9,3	48,9	23,6	14,5	3,6
Holders² by age group								
- 29 years	2 782,3	761 869	3 652	2,9	37,7	31,2	23,6	4,6
30 - 39 "	12 406,2	870 061	14 259	1,8	33,9	34,1	24,2	6,0
40 - 49 "	15 775,7	771 955	20 436	2,7	42,7	30,4	18,7	5,6
50 - 59 "	10 629,3	551 740	19 265	5,6	57,0	22,0	12,0	3,5
60 - 69 "	3 036,1	304 523	9 970	15,6	66,7	11,2	5,1	1,4
70 - "	223,6	96 059	2 328	40,1	55,5	2,6	1,0	0,8
Holders² and spouses/cohabitants by highest level of education								
Compulsory primary and lower secondary school	2 818,1	324 634	8 681	17,2	60,2	14,7	6,6	1,5
Upper secondary school	30 082,9	652 176	46 127	5,0	48,0	26,5	16,3	4,1
College or university	11 952,1	791 426	15 102	4,4	43,1	27,2	18,9	6,4
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	720,4	406 326	1 773	17,5	51,4	21,4	8,1	1,5
100 - 499 "	5 193,4	458 212	11 334	12,3	55,4	21,2	9,0	2,2
500 - 999 "	4 766,2	452 203	10 540	10,1	55,7	22,5	9,9	1,9
1 000 - 1 499 "	4 075,7	509 021	8 007	8,7	54,4	23,3	11,0	2,6
1 500 - 1 999 "	3 309,1	541 142	6 115	6,5	54,3	23,7	12,4	3,1
2 000 - 2 999 "	8 115,6	677 937	11 971	3,1	48,5	26,9	17,5	4,0
3 000 - 3 999 "	8 079,9	769 881	10 495	1,2	40,3	30,5	23,2	4,8
4 000 - "	10 592,9	1 094 872	9 675	1,4	31,9	28,3	26,8	11,6

¹ Comprise holdings with natural person as holder and with tax information. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ³ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

9.10. Total gross property, tax value of agricultural real estate, debt and net property¹. Refer to holders² and spouses/cohabitants, by county and various structural classifications. 1999

	Gross property				Debt, total Million NOK	Net property, total Million NOK
	Total		Of which taxed value of agricultural real estate			
	Total Million NOK	Per holding NOK	Total Million NOK	Per holding NOK		
Total	88 996,4	1 273 014	23 381,6	334 453	44 853,2	44 143,2
County						
Østfold	6 376,7	1 784 693	1 605,8	449 433	3 021,8	3 354,9
Akershus and Oslo	7 487,6	2 175 365	1 477,2	429 171	2 878,5	4 609,1
Hedmark	8 007,2	1 354 170	2 247,4	380 076	4 339,1	3 668,1
Oppland	8 551,2	1 231 981	2 246,1	323 603	4 087,7	4 463,5
Buskerud	5 716,6	1 506 353	1 194,5	314 747	2 516,3	3 200,3
Vestfold	4 794,0	1 967 984	968,3	397 478	2 299,3	2 494,7
Telemark	2 919,4	1 126 745	669,8	258 524	1 295,0	1 624,4
Aust-Agder	1 876,8	1 507 506	246,5	198 019	675,2	1 201,6
Vest-Agder	1 975,9	999 925	511,5	258 851	1 025,6	950,3
Rogaland	8 862,6	1 451 692	2 848,2	466 529	4 786,6	4 075,9
Hordaland	5 121,7	925 660	1 233,0	222 842	2 579,4	2 542,3
Sogn og Fjordane	5 505,3	1 050 235	1 523,0	290 530	2 331,5	3 173,9
Møre og Romsdal	5 413,4	1 091 861	1 695,2	341 907	2 729,8	2 683,7
Sør-Trøndelag	4 949,4	1 043 952	1 301,3	274 474	2 744,9	2 204,4
Nord-Trøndelag	5 560,5	1 125 600	1 549,8	313 726	3 621,3	1 939,1
Nordland	3 484,2	918 346	1 180,9	311 246	2 438,2	1 046,0
Troms	1 840,9	904 622	701,3	344 603	1 104,6	736,3
Finnmark	553,0	850 757	182,0	279 975	378,3	174,7
Agricultural area in use						
- 4 decares ³	446,9	1 649 140	61,9	228 533	314,2	132,8
5 - 49 "	11 629,7	849 691	2 203,9	161 019	5 045,9	6 583,8
50 - 99 "	16 290,9	977 905	3 953,2	237 300	7 080,8	9 210,1
100 - 199 "	27 562,1	1 240 808	7 768,6	349 731	13 846,8	13 715,2
200 - 299 "	15 489,1	1 500 297	4 803,4	465 263	9 026,7	6 462,4
300 - 499 "	10 847,4	2 076 053	3 205,0	613 397	5 991,3	4 856,0
500 - "	6 730,3	4 396 042	1 385,7	905 086	3 547,5	3 182,9
Holders² by gender						
Males	79 240,2	1 301 773	20 849,0	342 511	39 674,8	39 565,4
Females	9 756,2	1 079 343	2 532,7	280 192	5 178,4	4 577,8
Holders² by age group						
- 29 years	2 863,6	784 122	788,0	215 781	2 782,3	81,3
30 - 39 "	16 447,9	1 153 508	4 701,3	329 707	12 406,2	4 041,7
40 - 49 "	27 226,1	1 332 263	7 657,4	374 704	15 775,7	11 450,5
50 - 59 "	27 138,6	1 408 699	6 959,6	361 255	10 629,3	16 509,3
60 - 69 "	12 696,3	1 273 449	2 857,3	286 594	3 036,1	9 660,2
70 - "	2 623,9	1 127 110	417,9	179 519	223,6	2 400,3
Holders² and spouses/cohabitants by highest level of education						
Compulsory primary and lower secondary school	7 713,2	888 513	1 952,6	224 931	2 818,1	4 895,0
Upper secondary school	57 368,4	1 243 705	15 560,7	337 345	30 082,9	27 285,4
College or university	23 914,8	1 583 554	5 868,3	388 576	11 952,1	11 962,7
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	1 526,8	861 118	232,6	131 191	720,4	806,3
100 - 499 "	11 862,7	1 046 649	2 390,7	210 928	5 193,4	6 669,3
500 - 999 "	10 877,8	1 032 050	2 651,4	251 553	4 766,2	6 111,6
1 000 - 1 499 "	8 636,6	1 078 627	2 232,1	278 768	4 075,7	4 560,8
1 500 - 1 999 "	6 854,3	1 120 905	1 857,7	303 791	3 309,1	3 545,3
2 000 - 2 999 "	15 562,7	1 300 032	4 304,4	359 571	8 115,6	7 447,1
3 000 - 3 999 "	14 286,6	1 361 279	4 514,0	430 109	8 079,9	6 206,7
4 000 - "	19 388,9	2 004 019	5 198,8	537 341	10 592,9	8 796,0

¹ Comprise holdings with natural person as holder and with tax information. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ³ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

9.11. Net property¹. Refer to holders² and spouses/cohabitants, by county and various structural classifications. 1999

	Net property		Holdings by net property in million NOK					
	Total	Per holding	Total	Negative net property	0-0.4	0.5-0.9	1.0-1.9	2.0-
	Million NOK	NOK			Per cent			
Total	44 143,2	631 429	69 910	24,1	31,2	21,7	16,6	6,4
County								
Østfold	3 354,9	938 960	3 573	21,3	26,8	19,8	20,3	11,8
Akershus and Oslo	4 609,1	1 339 068	3 442	20,0	26,9	19,4	21,5	12,1
Hedmark	3 668,1	620 344	5 913	22,4	32,2	21,9	16,7	6,9
Oppland	4 463,5	643 061	6 941	21,4	30,4	23,4	17,7	7,1
Buskerud	3 200,3	843 287	3 795	19,6	26,0	23,0	20,7	10,7
Vestfold	2 494,7	1 024 103	2 436	25,7	24,6	19,6	19,0	11,0
Telemark	1 624,4	626 950	2 591	24,2	30,7	22,9	17,1	5,2
Aust-Agder	1 201,6	965 140	1 245	24,8	31,9	23,1	14,8	5,5
Vest-Agder	950,3	480 897	1 976	25,1	31,3	24,1	15,3	4,2
Rogaland	4 075,9	667 640	6 105	25,0	25,9	20,8	20,1	8,2
Hordaland	2 542,3	459 482	5 533	24,7	35,8	22,6	13,4	3,5
Sogn og Fjordane	3 173,9	605 469	5 242	18,3	32,6	25,9	18,9	4,3
Møre og Romsdal	2 683,7	541 286	4 958	22,1	32,8	24,0	16,3	4,7
Sør-Trøndelag	2 204,4	464 975	4 741	26,7	33,8	20,5	14,7	4,2
Nord-Trøndelag	1 939,1	392 536	4 940	31,7	31,7	19,0	12,8	4,9
Nordland	1 046,0	275 688	3 794	32,9	36,4	18,5	10,3	2,0
Troms	736,3	361 823	2 035	26,8	40,1	19,7	11,1	2,4
Finnmark	174,7	268 795	650	33,8	37,7	17,1	8,6	2,8
Agricultural area in use								
- 4 decares ³	132,8	489 906	271	29,2	26,6	18,8	16,2	9,2
5 - 49 "	6 583,8	481 026	13 687	23,4	38,2	21,9	12,7	3,7
50 - 99 "	9 210,1	552 861	16 659	22,6	34,2	23,4	15,3	4,5
100 - 199 "	13 715,2	617 442	22 213	24,8	29,8	22,4	17,3	5,7
200 - 299 "	6 462,4	625 957	10 324	26,3	27,1	20,1	18,6	7,9
300 - 499 "	4 856,0	929 385	5 225	23,8	21,5	18,9	22,4	13,4
500 - "	3 182,9	2 078 939	1 531	22,0	17,0	13,6	23,1	24,3
Holders² by gender								
Males	39 565,4	649 988	60 871	23,5	31,0	21,9	17,0	6,5
Females	4 577,8	506 450	9 039	28,1	32,2	20,3	14,3	5,0
Holders² by age group								
- 29 years	81,3	22 253	3 652	49,9	35,1	10,7	3,6	0,7
30 - 39 "	4 041,7	283 447	14 259	39,3	31,7	16,2	9,9	2,9
40 - 49 "	11 450,5	560 308	20 436	27,7	32,0	19,8	14,8	5,7
50 - 59 "	16 509,3	856 959	19 265	15,4	30,6	25,2	20,5	8,3
60 - 69 "	9 660,2	968 926	9 970	7,3	28,6	29,1	25,4	9,7
70 - "	2 400,3	1 031 051	2 328	2,4	30,5	30,2	25,0	11,9
Holders² and spouses/cohabitants by highest level of education								
Compulsory primary and lower secondary school	4 895,0	563 879	8 681	16,6	39,1	24,0	16,0	4,3
Upper secondary school	27 285,4	591 529	46 127	25,6	31,2	21,4	16,1	5,7
College or university	11 962,7	792 128	15 102	23,9	26,6	21,3	18,7	9,5
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	806,3	454 793	1 773	27,6	36,1	20,0	12,1	4,2
100 - 499 "	6 669,3	588 437	11 334	24,0	34,1	22,1	14,6	5,2
500 - 999 "	6 111,6	579 847	10 540	22,9	34,9	20,8	15,6	5,7
1 000 - 1 499 "	4 560,8	569 606	8 007	23,3	33,7	22,4	15,1	5,5
1 500 - 1 999 "	3 545,3	579 763	6 115	23,3	32,4	22,6	16,2	5,5
2 000 - 2 999 "	7 447,1	622 095	11 971	24,6	30,1	22,2	17,3	5,8
3 000 - 3 999 "	6 206,7	591 398	10 495	25,2	28,6	21,5	18,0	6,7
4 000 - "	8 796,0	909 147	9 675	24,4	24,1	21,1	20,1	10,3

¹ Comprise holdings with natural person as holder and with tax information. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ³ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/jt1999_en/.

9.12. Average income and property according to the tax assessment register¹. Refer to holders² and spouses/cohabitants, by county and various structural classifications. 1999. NOK

	General income subtracted special deductions ³	Personal income						Net property ³
		Total	Pension, annuity etc.	Pensionable income			Other	
				Total	Wages and salaries	Entrepreneurial income		
						Agriculture and horticulture ⁴		
Total	321 023	330 468	28 601	301 867	196 556	81 430	23 881	731 707
County								
Østfold	395 105	364 723	28 514	336 209	229 264	66 638	40 307	1 033 236
Akershus and Oslo	463 490	402 758	28 405	374 352	256 903	71 145	46 304	1 443 032
Hedmark	313 893	325 800	31 276	294 524	200 759	72 575	21 191	717 246
Oppland	296 577	307 251	26 304	280 947	168 881	90 783	21 283	719 432
Buskerud	365 568	352 137	27 425	324 712	224 655	59 249	40 808	939 157
Vestfold	402 834	384 673	28 021	356 652	237 223	74 776	44 654	1 166 695
Telemark	313 148	340 668	36 014	304 653	233 737	43 130	27 786	715 289
Aust-Agder	340 483	317 516	35 169	282 347	199 150	57 801	25 396	1 063 699
Vest-Agder	296 426	325 856	39 229	286 627	207 373	58 441	20 813	586 740
Rogaland	364 227	352 076	23 120	328 956	185 464	121 348	22 145	789 576
Hordaland	309 560	339 985	31 623	308 362	226 584	58 212	23 566	546 537
Sogn og Fjordane	288 893	310 317	29 802	280 515	192 219	69 784	18 511	670 397
Møre og Romsdal	297 759	319 788	28 999	290 789	189 382	84 353	17 054	622 967
Sør-Trøndelag	281 372	306 588	24 001	282 587	169 431	94 112	19 044	567 887
Nord-Trøndelag	290 330	315 326	20 886	294 440	169 691	110 280	14 469	534 380
Nordland	253 541	292 961	31 715	261 246	151 833	98 830	10 582	413 424
Troms	252 447	297 291	32 682	264 609	166 089	85 453	13 067	447 137
Finmark	246 907	290 306	39 142	251 164	148 671	88 596	13 898	398 831
Agricultural area in use								
- 4 decares ⁵	332 968	311 345	33 504	277 841	136 533	87 558	53 749	705 262
5 - 49 "	290 584	336 453	48 500	287 953	246 753	16 583	24 617	568 124
50 - 99 "	292 946	324 258	34 919	289 338	227 525	37 556	24 257	634 628
100 - 199 "	314 012	319 256	21 790	297 465	179 593	96 708	21 164	714 268
200 - 299 "	337 701	332 856	15 850	317 006	149 296	144 072	23 639	745 750
300 - 499 "	396 384	357 955	15 035	342 920	150 220	164 906	27 793	1 063 376
500 - "	628 597	400 679	12 174	388 505	144 365	208 527	35 613	2 281 542
Holders² by gender								
Males	325 070	331 574	25 534	306 040	195 714	86 098	24 227	747 058
Females	293 771	323 021	49 254	273 768	202 223	49 998	21 547	628 327
Holders² by age group								
- 29 years	191 436	231 427	2 850	228 577	157 663	57 525	13 388	218 088
30 - 39 "	296 338	321 545	6 037	315 507	213 024	75 523	26 960	451 976
40 - 49 "	361 667	375 858	11 141	364 717	245 098	88 090	31 529	679 318
50 - 59 "	355 383	356 627	24 036	332 591	214 773	93 769	24 048	919 364
60 - 69 "	285 463	271 184	86 023	185 160	96 566	76 399	12 194	992 902
70 - "	186 658	179 458	152 322	27 136	8 041	16 089	3 006	1 039 155
Holders² and spouses/cohabitants by highest level of education								
Compulsory primary and lower secondary school	205 470	212 660	58 888	153 771	77 547	62 272	13 953	618 402
Upper secondary school	308 528	315 669	25 658	290 011	176 872	89 763	23 377	695 029
College or university	425 610	443 389	20 180	423 209	325 087	66 994	31 128	908 865
Total employment in agriculture and horticulture on the holding								
- 99 man-hours	296 732	342 109	43 559	298 550	261 571	5 849	31 130	558 346
100 - 499 "	331 657	372 539	37 251	335 288	284 026	12 308	38 955	679 189
500 - 999 "	321 649	358 112	36 276	321 836	268 721	22 944	30 170	659 174
1 000 - 1 499 "	314 067	344 613	34 244	310 368	246 715	35 721	27 933	659 815
1 500 - 1 999 "	301 917	316 326	33 093	283 233	205 418	54 970	22 845	674 468
2 000 - 2 999 "	299 220	299 205	25 308	273 897	152 846	102 846	18 205	721 529
3 000 - 3 999 "	311 214	303 411	18 212	285 198	119 963	150 490	14 745	697 201
4 000 - "	367 785	314 197	15 197	298 999	93 609	193 115	12 276	1 049 717

¹ Comprise holdings with natural person as holder and with tax information. ² Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ³ The tax assessment register does not comprise negative amounts. Figures for net property in this table will not correspond with figures in table 9.11. ⁴ Comprise income in agriculture, forestry and fishing. ⁵ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

9.13. Taxes^{1,2}. Refer to holders³ and spouses/cohabitants, by county and various structural classifications. 1999

	Gross taxes		Of which income and property taxes to the municipality		Net taxes	
	Total	Per holding	Total	Per holding	Total	Per holding
	Million NOK	NOK	Million NOK	NOK	Million NOK	NOK
Total	7 849,8	112 284	2 528,0	36 160	7 491,7	107 162
County						
Østfold	502,8	140 718	166,7	46 654	480,1	134 376
Akershus and Oslo	584,8	169 913	197,7	57 427	518,0	150 506
Hedmark	647,2	109 455	208,5	35 269	627,7	106 151
Oppland	714,5	102 935	231,5	33 359	690,5	99 485
Buskerud	494,6	130 328	161,9	42 658	471,4	124 210
Vestfold	359,9	147 754	118,4	48 586	336,5	138 128
Telemark	287,6	111 016	90,9	35 072	274,2	105 841
Aust-Agder	148,7	119 447	50,6	40 670	142,6	114 516
Vest-Agder	202,7	102 593	63,8	32 282	195,7	99 025
Rogaland	776,5	127 196	252,9	41 426	745,1	122 052
Hordaland	596,6	107 833	185,2	33 478	575,2	103 956
Sogn og Fjordane	523,3	99 820	168,0	32 057	504,9	96 320
Møre og Romsdal	509,2	102 706	162,0	32 674	492,5	99 330
Sør-Trøndelag	457,0	96 393	144,8	30 547	441,6	93 155
Nord-Trøndelag	492,8	99 749	154,9	31 347	477,7	96 706
Nordland	323,2	85 177	99,9	26 330	311,9	82 204
Troms	174,2	85 580	53,6	26 349	162,5	79 831
Finnmark	54,2	83 312	16,6	25 541	43,5	66 988
Agricultural area in use						
- 4 decares ⁴	31,1	114 665	10,2	37 480	29,2	107 670
5 - 49 "	1 398,5	102 175	432,4	31 589	1 333,8	97 451
50 - 99 "	1 713,5	102 857	538,4	32 321	1 638,3	98 344
100 - 199 "	2 422,8	109 071	782,5	35 225	2 318,5	104 374
200 - 299 "	1 209,7	117 171	393,2	38 087	1 160,3	112 390
300 - 499 "	731,9	140 074	245,6	46 999	692,5	132 543
500 - "	342,4	223 636	125,8	82 142	319,0	208 387
Holders³ by gender						
Males	6 925,1	113 766	2 236,2	36 736	6 621,6	108 781
Females	924,7	102 301	291,8	32 280	870,0	96 254
Holders³ by age group						
- 29 years	241,1	66 024	70,3	19 245	231,9	63 491
30 - 39 "	1 475,9	103 510	451,2	31 645	1 398,3	98 062
40 - 49 "	2 627,0	128 549	823,2	40 280	2 498,2	122 246
50 - 59 "	2 428,2	126 042	792,8	41 155	2 336,0	121 254
60 - 69 "	944,8	94 769	335,9	33 686	902,9	90 565
70 - "	132,6	56 973	54,6	23 446	124,4	53 444
Holders³ and spouses/cohabitants by highest level of education						
Compulsory primary and lower secondary school	580,1	66 825	198,1	22 815	557,2	64 188
Upper secondary school	4 912,4	106 498	1 590,3	34 477	4 702,0	101 935
College or university	2 357,2	156 086	739,6	48 971	2 232,5	147 827
Total employment in agriculture and horticulture on the holding						
- 99 man-hours	187,4	105 712	57,5	32 411	178,9	100 882
100 - 499 "	1 360,7	120 051	420,0	37 058	1 291,8	113 973
500 - 999 "	1 214,3	115 205	376,9	35 758	1 166,6	110 685
1 000 - 1 499 "	892,7	111 492	279,2	34 871	855,9	106 897
1 500 - 1 999 "	643,7	105 263	205,8	33 663	612,3	100 131
2 000 - 2 999 "	1 230,2	102 763	403,2	33 684	1 179,9	98 565
3 000 - 3 999 "	1 104,1	105 202	364,3	34 716	1 066,5	101 624
4 000 - "	1 216,8	125 763	420,9	43 509	1 139,7	117 801

¹ Comprise holdings with natural person as holder and with information from the tax return account and the tax assessment register. ² Gross taxes comprise income taxes and property taxes to the municipality, county and state, contributions to the National Insurance Scheme etc. Net taxes are the sum of gross taxes subtracted deductions and reduction of taxes. ³ Holder is the person considered as responsible for operating the holding, usually the person applying for governmental production subsidies in agriculture. ⁴ Comprise mainly holdings in horticulture.

Source: Census of Agriculture 1999, Statistics Norway. More information: http://www.ssb.no/ft1999_en/.

Census of Agriculture 31 July 1999 - Information and instructions

How to fill in the questionnaires

The questionnaires will be read optically by machine, so it is important that you fill them out accurately and legibly. Use a pen with blue or black ink. Fill in the questionnaire from start to finish. A number of the yes/no questions state which question should be answered next (→ question 19), so that you do not have to read questions not relevant to you. See the example below under number 1.

Tick the boxes this way: and not like this: If you tick the wrong box:

Write numbers as follows: 1 2 3 4 5 6 7 8 9 0

The questionnaire contains three types of answers:

1. Questions that can be answered with a tick. Note that the responses are joined.

Yes → question 18 2-wheel 4-wheel
 No → question 19 drive drive

2. Questions where several answers may be ticked. Note that the responses are not joined.

Cattle Sheep Goat Pork Poultry

3. Questions where totals or quantities are given. Please note that in some places the answers are to be given with one decimal.

_____| m² |_____|

Example:

Own round baler alone | 1,0|

Own 1/3 of round bale wrapper | 0,3|

Steering marks (L) are used for machine reading of the questionnaires.

Explanation of some concepts used in the questionnaire

Holding: Farming operation including keeping livestock and horticulture. The holding shall include everything operated as a unit, including rented agricultural area, and is independent of municipal boundaries.

Information shall also be given on the main questionnaire about productive forest area and other land areas owned by the holder(s) and operated together with the holding.

The main holding: The part of the holding where the holder(s) lives and/or the main farm buildings are placed.

The main holding is identified with a unique main number (municipality no., land no., title no., lease no., and serial no.) For those applying governmental production subsidies, the main holding corresponds to the agricultural property on which the application is based.

Holder(s): The person(s) who is/are responsible for operating the holding.

Owner: The person(s) who hold(s) the registered deed to the main holding.

Tenant: The person(s) who rents/leases the main holding.

Agricultural area in use: Covers all deeded and rented agricultural area in use on the holding, including one-year fallow. Agricultural area means cultivated land, surface-cultivated land and other infield pastureland.

Area cultivated for arable crops: Land cultivated to the normal ploughing depth and can be renewed by ploughing.

Surface-cultivated land: Land which for the most part is cleared and evened on the surface to permit machine harvesting.

Other infield pastureland: Land used for pasture or harvested in another way because it cannot be machine harvested. At least 50 per cent of the area shall be covered by species of grass. The area shall be fenced in unless the area has natural boundaries such as a river, lake, mountain etc.

Land rent: Applies to leasing or renting of additional land.

Supplementary industries: Activities that use the areas, buildings and/or machinery of the holding. A further requirement is that the industry provides income and/or employment for the holder(s) and/or their family members.

Family members: Relatives in direct ascending or descending lineage and brother(s) and sister(s) of the holder(s).

Non-family labour regularly employed: Persons (outside family members) who have worked on the holding each week for all or part of the year (e.g., the summer months) regardless of number of working hours per week. Also covers replacements employed in replacement pools or groups.

Non-family labour not regularly employed: Persons who have carried out short-term tasks such as berry picking, rock picking and forest planting.

Why the census is being conducted

In accordance with the Storting's autumn 1997 decision, a census of agriculture shall be held in 1999. The census is administered by Statistics Norway.

The census will show the production basis in agriculture and provide operational, environmental and economic data. This applies to both the situation at the time of the census and changes over time.

Local and central public administration, extension services, research institutions, agricultural organizations, etc. have an interest in the results of the census. Norway is furthermore obligated to report agricultural statistics in accordance with international treaties.

Where practical, Statistics Norway uses administrative data sources as replacement for collecting data on its own. The main census questionnaire therefore does not include detailed questions about area use and number of livestock. This information is obtained for most of the holdings from the Applications for Governmental Production Subsidies in Agriculture 31 July 1999.

Legal authority

The data are collected by Statistics Norway pursuant to Section 2-2 (1) of Act no. 54 of 16 June 1989 relating to Official Statistics and Statistics Norway and the Ministry of Finance delegation letter of 13 February 1990. If you believe you are not obligated or have legal authority to provide information, you can appeal the order within three weeks. The right of appeal does not apply to the issue of whether the filing requirement is reasonable or necessary.

Under Section 2-3 of the Statistics Act you can be penalized for not providing information by the deadline.

The data are subject to the duty of confidentiality under Section 2-4 of the Statistics Act. Statistics Norway will use the information to compile official statistics, and for statistical use in research and public planning. Use of collected data will take place in accordance with requirements of the Data Inspectorate. The information will be stored and destroyed if necessary in a secure way.

Conduction of the census

Statistics Norway sends questionnaires to persons who according to the Farm Register are registered as the reference person on active holdings in agriculture.

The reference person shall fill in the questionnaire and send it to the agricultural administration in the municipality. The agricultural administration will assist Statistics Norway with the census. The questionnaires are sent from the municipality to Statistics Norway for further processing.

Not subject to filing requirement?

If farming operations have ceased or are of an extent that is below the filing requirements, the questionnaire is to be sent back to the agricultural administration in the municipality with such notification.

Deadline

The questionnaires are to be sent to the municipal agricultural administration by 20 August 1999. The address of the agricultural administration is pre-printed on the back of the main questionnaire. Fold the questionnaire so that the field is visible in the window of the reply envelope. The reply envelope is franked by Statistics Norway.

Free phone

A free phone number has been set up, **800 41 051**, which will be manned until 20 August. Here you can get help to fill in the questionnaire and answer other questions in connection with the census. The phone will be manned Monday to Friday from 8.00 to 16.00. The free phone line will be manned until 20.00 on Tuesdays and Thursdays from Tuesday 27 July to Thursday 19 August.

Statistics Norway also has information about the Census of Agriculture 1999 on its website. The address is <http://www.ssb.no/jt1999/>.

Who must file

Everyone who meets one or several of the following conditions must file:

1. Everyone who cultivates at least 5 decares of agricultural area
2. " " " " 300 m² of greenhouse area
3. " " " " 2 decares of field-grown vegetables
4. " " " " 1 decare of fruit trees
5. " " " " 1 decare of berries (strawberries, raspberries, black currants or other berries)
6. " " " " 1 decare of nursery
7. Everyone with at least 10 cattle, including calves
8. " " " 25 sheep over 1 year
9. " " " 10 goats over 1 year
10. " " " 5 breeding pigs and/or 200 other pigs
11. " " " 1000 laying hens and/or chickens intended as laying hens
12. " " " 5000 chicks for slaughtering

The person(s) responsible for operating the farm provide(s) the information. The questionnaire uses the term *holder(s)* for the person(s) responsible for running the farm. On certain questions information is also provided for spouses/cohabitants, even though the person is not actively involved in farming. Persons who have entered into a registered domestic partnership fill in the questionnaire in the same way as married couples.

Spouses/cohabitants who each operate a holding shall as a rule fill in a joint questionnaire.

The part of the holding where the holder(s) live(s) and/or the main farm buildings are sited, is called the *main holding*.

Farm Register

The Farm Register forms the basis for advance filling out of name, address etc. The register covers all agricultural properties, agricultural holdings and persons who are associated with these units as owners and/or holders. Holdings that applied for production subsidies, delivered animals for slaughtering or delivered grain in 1998 are coded as active in the Farm Register. All holdings coded as active in May 1999 will receive the main questionnaire.

Because of delays in updating the Farm Register, some of the holdings receiving census of agriculture questionnaires will not be in operation today.

Which questionnaires shall be filled in?

The Census of Agriculture 1999 has 3 different questionnaires:

Questionnaire 1. Main Questionnaire

Everyone subject to the census shall fill in the questionnaire.

Questionnaire 2. Greenhouse and Horticultural Questionnaire

Everyone meeting at least one of the requirements in nos. 2-6 "Who must file", shall in addition fill in the Greenhouse and Horticultural Questionnaire.

The Greenhouse and Horticultural Questionnaire is not sent directly to the holder(s). Those who must file will be contacted by the agricultural administration in the municipality in connection with the collection of information.

Questionnaire 3. Additional Questionnaire for holdings not applying for production subsidies

Everyone fulfilling one or more of the census conditions, but are not applying for governmental production subsidies on 31 July 1999 shall fill in an additional questionnaire together with the Main Questionnaire. The Additional Questionnaire contains questions about the number of livestock and area in use. This questionnaire has been sent with the Main Questionnaire to holders who did not apply for governmental production subsidies on either 31 July 1998 or 31 December 1998. The questionnaire is also available by contacting Statistics Norway or the agricultural administration in the municipality.

Tenancy, common herds and common areas

In the case of renting and handover of a farm from one generation to the next, information about farm buildings, machinery and equipment used in farming operations shall be given by the holder(s) regardless of ownership.

For co-operation production of cow or goat's milk, list the resources at the disposal of the common herd on the common herd questionnaire, and those used by the individual participant on his or her questionnaire.

For co-ops only involved in plant production, where the participants do not have filing requirements for their agricultural production outside the co-op, farm buildings, machinery and implements used by the co-op are listed on the co-op questionnaire.

The term *common pasture* means pasturing and care of animals during the grazing period. Participants in common pastures own their own animals, but the pasture area can be jointly owned/rented. The area of the common pasture is distributed among the participants and listed as owned or rented area.

Questionnaire 1. Main questionnaire

General information, property and areas

Information about the holder(s) – name, address etc.

The questionnaire has been filled in with name, address, etc. Check to see that the information is correct and complete. Correct any errors or incomplete information by crossing out the information and entering the correct information in the correct field.

In the event of a change in holdership, change the information on the pre-filled in questionnaire or fill in a new questionnaire.

If a new (blank) questionnaire has to be filled in, it is important that the land and title number of the main holdings and the national identity number of the holder(s) are written correctly. If the unit has an organization number, list it on the questionnaire. The organization number can be found on VAT statements etc.

Single persons and married/cohabiting couples:

There is room for the names and national identity number of two holders. *The national identity number of the reference person must always be given.*

If the reference person operates the holding together with brothers and sisters or family members, they shall not be listed as holders even though they farm together. In such cases, the questionnaire shall be filled in in the name of the person who has the main responsibility for the farm, and his/her spouse/cohabitant shall be listed. If responsibility is equally divided among sisters and brothers, the oldest is regarded as the reference person.

Other holders:

Covers holders who are registered as general partnerships, joint-stock companies, foundations, institutions, estates etc., and holdings operated by the state, county, municipality etc. The name of the enterprise is given in the rubric for the reference person. List the organization number.

1. Tick whether the holder(s) is/are:

Single person, married/cohabiting couples (sole proprietorship):

Entered here are all holdings for which single persons or married couples are responsible for operating. Person who have undivided possession of an estate should also tick this alternative.

Holdings farmed by several members of the same family tick single person if the joint operation is not registered as a general partnership or joint-stock company. Family members means relatives in direct ascending or descending lineage and brother(s) and sister(s).

General partnership (joint operation):

Covers holdings registered as *general partnerships* (ANS) or companies with *divided responsibilities* (DA).

Other:

Covers holdings that are not sole proprietorships or general partnerships. This applies to holdings run by *joint-stock companies, the state, county, municipalities, institutions, foundations, estates etc.*

2. Do(es) the holder(s) own the main holding?

As owner is regarded:

- Anyone who has a registered deed to the property, including surviving spouse with undivided possession of the estate
- Anyone who has bought the property at a forced sale confirmed by a court of execution and enforcement, even though the buyer has yet to register the deed in his or her name

5. What year did the holder(s) receive the title to the main holding?

The question shall only be answered if the holder(s) own the main holding.

- For owners with deed, included surviving spouse with undivided possession of the estate, give the year when the registered deed was issued for the main holding.
- For property purchased at a forced sale, give the year the court of execution and enforcement confirmed the auction transaction.

9. Give the area owned by the holder(s). Decares

Covers the area in the municipality where the main holding lies and in other municipalities if applicable. Information shall be given for all agricultural properties owned jointly or individually by the holder(s), and which are included in the holding. Agricultural area that the holder(s) own(s) together with others, e.g. common pastures, are listed by the share owned of the common pasture.

Area owned by the holder(s) in the municipality where the main holding lies, shall be listed in the left column. On pre-filled in questionnaires, the name of the municipality will be written above this column.

Area which the holder(s) own(s) in other municipalities shall be listed in the right column. The areas shall be included in the holding. Enter the municipality name or municipality number of the relevant municipalities. If the holder(s) own(s) area in more than one municipality, enter the total of the areas in the right column.

Should the holder(s), alone or together with others, own(s) agricultural property not included in the holding, this area shall *not* be given as owned area.

Area leased out for at least 20 years, shall not be included by owner, but by the person who leases the areas. Do not include water areas. If you do not have information based on area measurement, give the area information according to your best judgement.

Agricultural area covers cultivated land and surface-cultivated land that is in use, or which without extensive work can be taken into use again as agricultural area. Other infield pastureland in use (pastures not fully cleared), are regarded as agricultural area. Also include owned share of common agricultural area, e.g. common pasture.

Lawn, ornamental gardens, building sites, farmyards, roads etc. are listed as other area.

Productive forest area covers area which on average for a normal cycle can produce at least 0.1 m³ timber per decare and year ($H_{40} > 5$), when the area is stocked with a type of tree that fits the local growing conditions. Please note that it is the *production capacity of the area* that is to be used as a basis, regardless of current production and opportunities to harvest timber at present.

Area used to grow Christmas trees and decorative greenery is regarded as productive forest area.

Forest area with a production capacity of less than 0.1 m³ per decare, shall be listed as other area.

Other area covers all land area outside agricultural area and productive forest area. Areas covered by water are not included. Area types which are to be listed as other area are bogs, bare rock, virgin and other mineral soil area. Other area also includes, lawn, ornamental gardens, building sites, farmyards, roads, cleared right of ways, open ditches and channels, gravel pits etc. Permanent campsites, sites for rental cabins and golf courses are also regarded as other area.

11. Agricultural area rented by the holder(s)

All rented agricultural area shall be included, regardless of whether remuneration is paid or not. Both leasing and renting of additional land are regarded as agricultural rent. Areas leased for at least 20 years shall not be listed here but entered instead as owned area.

12. Payment for rented agricultural area in 1999

Give the total payment for rented agricultural area, not the amount per decare. Any shares of lease/rent payments that concern farm buildings, machinery, etc. shall not be included in the amount given. If the rent is paid with other than money, give the estimated value of the remuneration.

14. Agricultural area in use, including rented area

Agricultural area in use covers all deeded and rented agricultural area in use on the holding. The holding's share of common pasture and agricultural area idled as one-year fallow shall also be included. *One-year fallow* means all area of open fields where

no crop will be harvested in 1999, but will according to plan be harvested next year. The reason the area is fallow can be ditching, weed control, flood damage etc. Reclaimed area not brought into production, shall also be regarded as fallow.

Agricultural area in use shall correspond to the area said to be in use on the Application for Governmental Production Subsidies 31 July 1999. Those who are not applying production subsidies, shall provide information about the use of the agricultural area on the Additional Questionnaire. This questionnaire was included in the questionnaires sent to the holder(s) who did not apply for governmental production subsidies 31 July 1998 or 31 December 1998. The Additional Questionnaire may also be obtained by contacting Statistics Norway or the agricultural administration in the municipality.

15. How many parcels and fields does the agricultural area consist of?

Parcel means agricultural area that is completely surrounded by area belonging to other properties. If public roads or railway tracks divide a property into several parts, the parts as a main rule shall not be regarded as parcels.

A *parcel* consists of *one or more fields*.

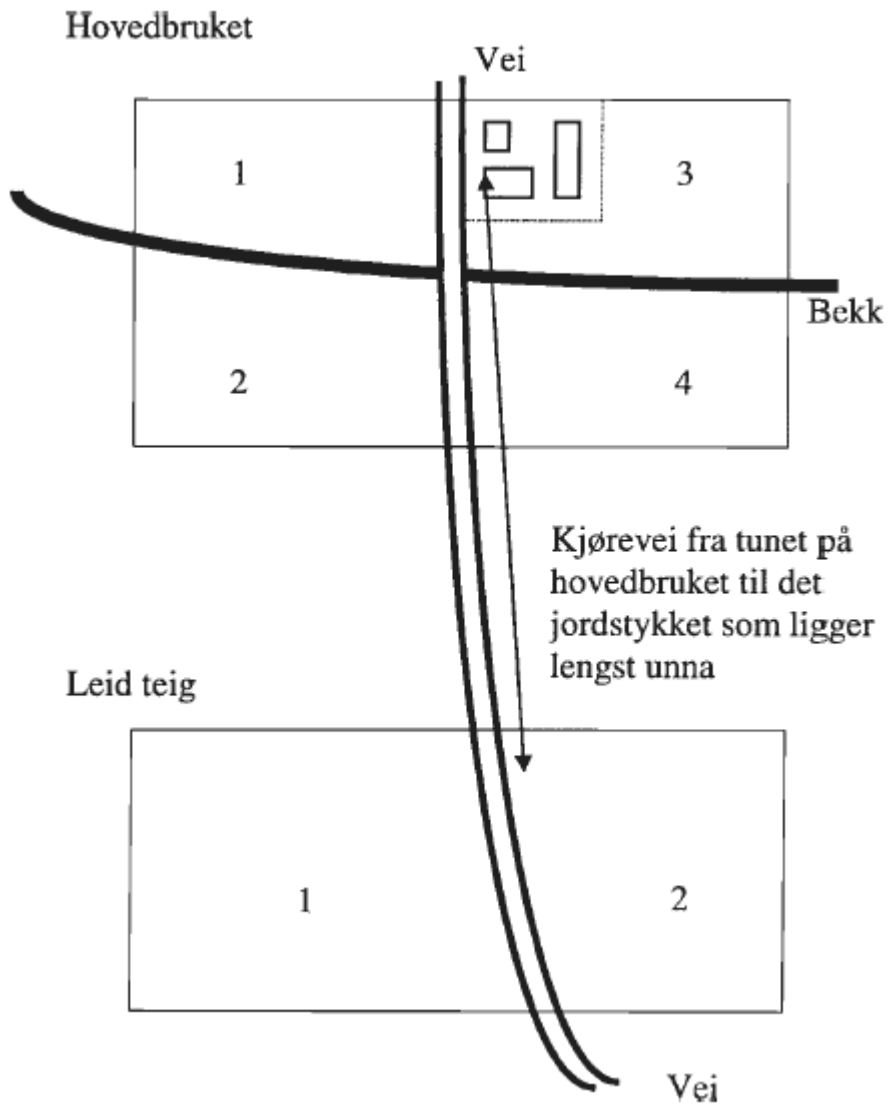
Field means contiguous agricultural area bounded by a road, stream, forest etc.

Below are two examples for illustrating the filling in of the questions on parcels and plots.

Example 1 shows a holding that consists of the main holding [hovedbruket] and a rented property [leid teig]. The main holding's parcel [teig] is divided by a road [vei] and stream [bekk], and consists of four fields [jordstykker]. The rented property is also divided by the road and consists of two fields. The arrow indicates the distance from the farmyard on the main holding to the field located the farthest away.

This will result in the following answer to question 15:

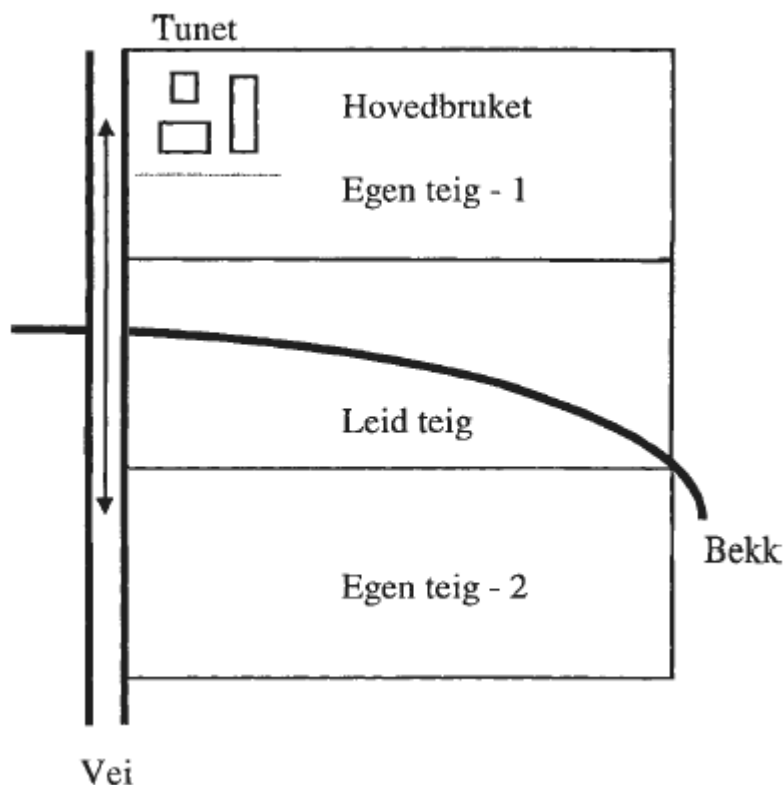
	No. of parcels	No. of fields
Main holding's agricultural area in use.....	1	4
Other owned/rented agricultural area in use	1	2



Example 2 shows a holding consisting of the main holding that is divided into two parcels by an intermediate parcel that belongs to another property. The arrow indicates the distance from the farmyard of the main holding to the field located the farthest away.

This will result in the following answer to question 15:

	No. of parcels	No. of fields
Main holding's agricultural area in use.....	2	2
Other owned/rented agricultural area in use	1	1



16. How long of a drive is it from the farmyard of the main holding to the field located the farthest away?

State how many kilometres it is from the farmyard of the main holding to the entrance of the farthest away field in use, regardless of whether the field is owned or rented. No distance is calculated if the holding only consists of one or more fields adjacent to the farmyard.

17-18. Drainage of agricultural area. 5-year period 1994-1998

List drainage of both owned and leased or rented land if relevant. The question can be answered even though there has been a change of ownership or the area has not been leased for the entire period.

Drainage means areas that are ditched for the first time or being thoroughly reditched because the old ditching system no longer functions. Maintenance of an existing ditching system and profiling of histosols are also entered as ditching.

The entire area of areas that are systematically ditched shall be included. For single ditches the achieved drainage area is given by multiplying the length of the ditch with drained width, usually 6-12 metres.

19-20. Reclamation. 5-year period 1994-1998

List reclamation of both owned and possibly leased or rented land. This applies even though there has been a change of ownership or the area has not been leased the entire period.

For other infield pastureland the area that has been cleared or prepared in the five-year period is entered.

Other infield pastureland that has been surface-cultivated or cultivated and surface-cultivated land that has been cultivated, shall also be included as reclaimed area.

21. Different types of area that have been brought into cultivation/cleared

The areas given in question 20 shall be distributed according to which types of area have been brought into cultivation or cleared.

22-23. Agricultural area put back into production in the 5-year period 1994-1998 after having been out of use for at least 2 years.

Covers area in use in 1999, and covers both owned and any leased or rented land. Do not take into consideration whether there has been a change of ownership or whether the area has not been leased the entire period.

24. Commercial fertilizer applied to cultivated meadow and grain and oil seed plants in 1998

State the consumption of pure nitrogen (N) and pure phosphorus (P) per decare here. Consumption shall be given as an *average* of the cultivated meadow areas for mowing (silage/hay) and cultivated pasture, and as an *average* for the areas planted in grain

and oil seeds. Do not include information for meadow seed for harvesting. Give the number of kilos of nitrogen per decare without a decimal. The number of kilos of phosphorus per decare is given with one decimal.

The tables showing nitrogen and phosphorus content in kilograms per decare and for the most commonly used types of fertilizers:

Nitrogen content, kilograms per decare:

Type of fertilizer		Kg fertilizer per decare										
		20	30	40	50	60	70	80	90	100	110	120
Fertilizer	11-5-17.....	2	3	4	6	7	8	9	10	11	12	13
"	15-4-12.....	3	4	6	7	9	10	12	13	15	16	18
"	16-3-18.....	3	5	6	8	9	11	12	14	16	17	19
"	17-5-13.....	3	5	7	9	10	12	14	15	17	19	21
"	18-3-15.....	4	5	7	9	11	12	14	16	18	19	21
"	21-4-10.....	4	6	8	10	12	14	16	19	21	23	25
"	22-2-12.....	4	6	9	11	13	15	17	19	22	24	26
"	25-2-6.....	5	7	10	12	15	17	20	22	25	27	30
NPK micro	6-5-20.....	1	2	2	3	4	4	5	5	6	7	7
NK	19-16.....	4	6	8	10	12	14	16	17	19	21	23
Calcium nitrate	.....	3	5	6	8	9	11	12	14	16	19	18
Ammonium nitrate limestone (Hydro KAS)	.....	6	8	11	14	17	19	22	25	28	30	33
Urea 46 %	.....	9	14	18	23	28	32	37	41	46	51	55

Phosphorus content, kg per decare:

Type of fertilizer		Kg fertilizer per decare										
		20	30	40	50	60	70	80	90	100	110	120
Fertilizer	11-5-17.....	0.9	1.4	1.8	2.3	2.8	3.2	3.7	4.1	4.6	5.1	5.5
"	15-4-12.....	0.7	1.1	1.4	1.8	2.2	2.5	2.9	3.2	3.6	4.0	4.3
"	16-3-18.....	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.6	2.9	3.1
"	17-5-13.....	0.9	1.4	1.8	2.3	2.8	3.2	3.7	4.1	4.6	5.1	5.5
"	18-3-15.....	0.5	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.6	2.9	3.1
"	21-4-10.....	0.7	1.1	1.4	1.8	2.2	2.5	2.9	3.2	3.6	4.0	4.3
"	22-2-12.....	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.2
"	25-2-6.....	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6	1.8	1.9
NPK micro	6-5-20.....	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
Hydro PK 5-17	.....	0.9	1.4	1.9	2.4	2.8	3.3	3.8	4.2	4.7	5.2	5.6
Hydro P 8	.....	1.6	2.3	3.1	3.9	4.7	5.5	6.2	7.0	7.8	8.6	9.4

25-26. Meadow area divided into cultivated and surface-cultivated meadow and by age of meadow.

Area information concerns only cultivated and surface-cultivated meadow, and shall correspond with area information on the Application for Governmental Production Subsidies 31 July 1999, or area information given on the Additional Questionnaire. Area used for green fodder plants, including one-year rye grass, meadow seed and other infield pastureland, shall not be included here.

Meadow, 0-1 year old: Covers area seeded in 1998 or until 31 July 1999. Areas ploughed and shall be seeded with meadow seed are also entered.

Farm buildings

Included shall be all buildings in use as farm building or which are in such a condition that they may without great additional cost be used again as farm buildings. Information about all farm buildings used in farming operations shall be given. A "stabbur" (storehouse) is regarded as a farm building if it is primarily used as a storeroom in connection with farming. For farm buildings owned/rented by two or more holders who each fill in the census questionnaire, the area of the buildings is divided proportionally so that no information is given twice.

Farmhouses are not regarded as farm buildings and the same applies for the house in which the previous owners of the farm live, employee housing, forest shelters, shelters at mountain dairy farms, fishermen's huts, rental cabins, greenhouses, sheds for fur-bearing animals, sawmills etc.

Farm buildings which in their entirety have been rebuilt for other purposes than agriculture shall not be included.

27. Farm building used on the holding

Area: Give only the area even though the farm building has several stories. Dungsteads and course fodder silos built adjacent to a farm building are included with the farm building in question. Free-standing tight manure pits shall not be included.

Building year: Covers the building year for the oldest part of the building. If the exact building year is not known, give the estimated building year.

Last year rebuilt or added on to: Give the last year when rebuilding or expanding was undertaken. As rebuilding/additions are regarded capitalized investments. Maintenance is not regarded as rebuilding.

Purpose: Tick which purpose the farm building is used for. For farm buildings or parts of farm buildings that are not in use but in usable condition, tick what the buildings are fitted or built for.

If there are more than five farm buildings on the holding, give detailed information about the five buildings that are in use or have the largest area.

30-31. Drying systems for grain and hay

Cold air dryer for grain also covers cold air dryers with supplementary heat, and drying or air silos with large drying capacity. Systems that have both cold air dryers and hot air dryers are listed as two systems.

Drying systems for hay are covered systems where regular fresh air or heated air is blown through the hay.

Drying systems that can be used for drying both hay and grain (combined dryer) are listed as two systems.

36. Storing manure

If there are several storage facilities of the same type on the holding, give information about capacity of the dugnstead that has to be emptied the most often.

Machinery and implements

The holder(s) list(s) the machinery and implements they use. If machinery and implements are owned together with others, the individual owners list their shares. Machinery and implements rented or borrowed for a short time are not included.

39 - 40. Four-wheeled tractors

Fill in one line for each four-wheeled tractor the holder(s) use(s) alone or jointly with others. Transporters and similar special tractors for agriculture shall also be included. The tractor's engine power shall be given in DIN. Engine power given in kW is converted to hp DIN by multiplying the number of kW by 1.35. Engine power given in hp SAE is converted to hp DIN by multiplying hp SAE by 0.9.

If there are more than 5 tractors on the holding, answer question 40 by giving information on the 5 tractors that have been used the most in the last 12 months. Use of the tractor covers all use in agriculture, forestry and supplementary industries.

43. Crop sprayer

Give the greatest working width in metres for the sprayer boom.

44. Combine harvester.

Give the cutterbar width in feet. 1 foot = 0.3 metres.

46-48. Contracting work, hiring and machinery pooling

Applies to all contracting work, hiring and machinery pooling/exchanging of machinery mainly used in agriculture and horticulture.

Machinery pooling/exchange work where there is a certain amount of financial settlement because the participants have not contributed equally to the cooperation, is also listed in question 48.

52. Water sources

By groundwater as water source is understood to be water pumped up from water-bearing layers in the ground.

If the water is taken, e.g., from dams or public water supply, tick the original water source (river, stream, lake, groundwater).

Education, supplementary industries, labour input

54. Agricultural education

Education information shall be given for spouses/cohabitants even though they do not participate in operating the farm.

Agricultural education means courses with a duration of at least 5 months in agriculture, animal husbandry, horticulture or forestry. Include correspondence courses equivalent to at least 5 months of technical college.

55-56. Supplementary industries – use of the holding's resources

A supplementary industry under the direction of the holder(s) means activities that use the holding's areas, buildings and/or machinery. The supplementary industry must furthermore provide income and/or employment for the holder(s) and/or their family members.

Business activities without direct connection to the holding, e.g., a shop that does not sell the farm's products, are not regarded as supplementary industry in this connection.

The concept supplementary industry comprises many forms of business. A number of supplementary industries are listed on the questionnaire, but there is also room for the holder(s) to list other supplementary industries. Below are examples of other supplementary industries.

- Sale of own-produced agricultural products directly to consumer (farm shop etc.)
- Processing of agricultural products for sale (cheesemaking, curing meat etc.)
- New biological businesses, e.g., mushroom growing, sprout production etc.
- Work of caring nature (treatment services)
- Riding school

The supplementary industries can in certain cases have a considerable extent. For some holders the supplementary industry may be more important than farming, and it can be difficult to determine whether the business should be defined as a supplementary industry.

57. Holder(s) labour input on and off the holding

Information shall be given about a spouse/cohabitant's work off the holding even though he/she does not participate in operating the farm.

A man-year equals about 1 750 hours for employees in manufacturing and services. A half man-year is thus 875 hours.

Labour input on the holding:

Information on labour input is given according to best judgement. Give actual labour input instead of labour input based on standard man-hours. It is natural to use the number of working days and average working hours per day as a base. In the course of one year there are c. 300 workdays (including Saturdays) and c. 65 holidays. When calculating labour input in this way, remember to deduct holiday, freetime, illness etc.

Labour input on new buildings and maintenance shall be included. Exchange work performed for others shall be entered as work on own holding, while exchange work received shall not be entered.

Time spent on taking care of the lawn, ornamental garden etc. and housework shall *not* be included in the working hours.

Labour input in supplementary industries is entered in a separate rubric. See definition of supplementary industries under question 55-56.

Work off the holding:

Add up the number of hours worked as employee or self-employed person off the holding. Give man-hours for both all-year work and occasional/seasonal work.

59. Family members or other persons worked on the holding in the last 12 months

The information shall cover both paid and unpaid help who have worked for the holder(s) in the last 12 months.

For family members and regular help it is possible to give information for up to 5 persons. Labour input of the individual person shall be divided into agriculture and horticulture, forestry and supplementary industries. If it is difficult or impossible to separate labour input in this way, list the person's total labour input in the area he/she has worked the most. If the holder(s) has/have had more than 5 family members/regular help employed, list the excess persons as occasional labour. Regular replacements are listed as regular help, even though he/she is formally employed by a replacement group/pool.

For non-family not regularly employed, list the total man-hours for males and females. Labour input is divided into agriculture and horticulture, forestry and supplementary industries. Give the number of males and females to whom the man-hour information applies.

60-61. Hiring self-employed persons or firms to work in agriculture and horticulture on the holding

Agricultural and horticultural work for pay performed on an hourly basis or piecework by contractors, another farmer, craftsman etc. shall be included here. For piecework it can be difficult to give an estimate of total man-hours, so use your judgement. Work on farmhouse, other farm housing and other work not related to farming, shall not be included.

Note for instance that a neighbour farmer who is hired to operate machinery in connection with farming operations shall be entered here. Any exchange work shall not be included here, cf. question 57.

Hired labour in the forest shall *not* be included.

Census of Agriculture 31 July 1999 - Main questionnaire

Free phone: 800 41 051

General information, property and land areas

(Pin code)	(Name of holding)	(Municipality number)
(Name of holder)	(Holders identity number)	(Land number)
(Name of co-holder)	(Co-holders identity number)	(Title number)
	(Organization number)	(Lease number)
		(Serial number)

1. Tick to indicate whether the holder(s) is/are:

- Single person, married couple, cohabiting couple → q. 2
 General partnership (joint operation) → q. 9
 Other (Joint-stock company, institution etc.) → q. 9

2. Do(es) the holder(s) own the main holding?

- Yes → q. 5
 No → q. 3

3. Is the main holding rented from family?

- Yes → q. 4
 No → q. 4

4. Do(es) the holder(s) own agricultural holdings in addition to the rented main holding?

- Yes → q. 9
 No → q. 11

5. What year did the holder(s) receive the title to the main holding?

| 19__|

6. Did the buyer have allodial rights?

- Yes → q. 7
 No → q. 9

7. Tick who had the allodial rights?

- Man
 Woman

8. Tick the buyer's type of allodial rights:

- Best allodial rights
 Allodial rights, but not best rights

9. Give the area owned by the holder(s). Decares

Includes area in the municipality where the main holding is and in any other municipalities. The area shall be included in the holding.

Name of municipality
 Agricultural area owned _____
 Productive forest area owned _____
 Other land area owned _____
Total land area owned _____

10. Do(es) the holder(s) rent agricultural area in addition to the owned agricultural area?

- Yes → q. 11
 No → q. 14

11. Give the agricultural area rented by the holder(s) in decares:

Area without written contract _____
 Area with written contract of 1-4 years _____
 Area with written contract of 5 or more years _____
Total rented agricultural area _____
 Of which area rent is being paid in 1999 _____

12. Give the total payment for rented agricultural area in 1999 (NOK without VAT)

| _____|

13. Does the agricultural area of the main holding border all or part of the rented agricultural area?

- Yes
 No

14. How much agricultural area, including rented area was in use on 31 July 1999?

| _____| decares

15. How many parcels and fields does the agricultural area consist of? See instructions.

Parcel means agricultural area that is completely surrounded by land belonging to other properties. A parcel consist of one or more fields. A field is a continuous agricultural area bounded by roads, streams, forests etc.

	No of parcels	No of fields
Main holdings agricultural area in use	| _____|	| _____|
Other owned/rented agric. area in use	| _____|	| _____|

16. How long of a drive in kilometers is it from the farmyard of the main holding to the field located the farthest away?

| _____| km

17. Was drainage of the holding's agricultural area, including rented area, undertaken during the five-year period from 1994 to 1998?

- Yes → q. 18
 No → q. 19

18. How many decares were ditched during the five-year period?

| _____| decares

19. Was any reclamation of agricultural area or clearing of other infield pastureland undertaken on the holding, including rented area, during the five-year period from 1994 to 1998?

- Yes → q. 20
 No → q. 22

20. How many decares were reclaimed/cleared during the five-year period?

Cultivated land	Surface-cultivated land	Cleared other infield pastureland
| _____| decares	| _____| decares	| _____| decares

21. How many decares of different types of land were brought into cultivation/cleared in the five-year period?

Productive forest	| _____| decares
Mineral soil (heather, scrub etc.)	| _____| decares
Bogs	| _____| decares
Surface-cultivated land that was cultivated	| _____| decares
Other infield pastureland that was cultivated or surface-cultivated	| _____| decares

22. During the five-year period from 1994 to 1998, was agricultural land, including rented area, that had been unused for at least 2 years put back into production on the holding? Yes → q. 23
No → q. 24

23. How many decares were put back into production in 1994-1998 after having been unused for at least 2 years?

Cultivated land	Surface-cultivated land	Cleared other infield pastureland
|____| decares	|____| decares	|____| decares

24. How much nitrogen and phosphorus from commercial fertilizer was applied on average in 1998? See instructions.

	Fully-cultivated meadow	Grain and oil seed
Nitrogen	|____,0| kg/decare	|____,0| kg/decare
Phosphorus	|____,| kg/decare	|____,| kg/decare

25. Does the holding have meadows for mowing or pastureland? Yes → q. 26
No → q. 27

26. Give the meadow area in decares, including rented area, broken down by fully-cultivated and surface-cultivated meadow and by the age of the meadow.

Fully-cultivated meadow should correspond with code 210 on the Application for Governmental Production Subsidies and surface-cultivated meadow should correspond with code 211. Other infield pastureland, code 212, should not be included.

	Fully-cultivated	Surface-cultivated
Meadows 0-1 year old	|____|	|____|
Meadows 2-4 years old	|____|	|____|
Meadows 5-9 years old	|____|	|____|
Meadows 10 years old and older	|____|	|____|
Total meadow area 31 July 1999	|____|	|____|
Of which meadow area which are only used as pasture in 1999	|____|	|____|

Farm buildings

27. Give information about the individual farm buildings the holder(s) use(s) on the holding.

Include only farm buildings that are in usable condition. Tick the purpose for which the building is used. For farm buildings or parts of farm buildings not in use but in usable condition, tick what the building is fitted out for or built for. Several answers can be ticked for each farm building.

Area, m ²	Year built	Last year rebuilt/added on to	Cattle	Sheep	Goat	Pork	Poultry	Course fodder storage	Implement etc.	Storage for plant-products	Other agric. and horticult. purposes	Other purposes than agric. and horticult.
|____|	|____|	|19____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
|____|	|____|	|19____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
|____|	|____|	|19____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
|____|	|____|	|19____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
|____|	|____|	|19____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

28. Are there more than 5 farm buildings on the holding? Yes → How many more than 5? |____| → Total area |____| m²
No

29. Are there some farm buildings mentioned above where all or most parts of the building(s) is/are not used? Yes → How many? |____| → Total area not in use |____| m²
No

30. Does the holding have a drying system for grain?

Yes → Cold air system Warm air system
No

31. Does the holding have a drying system for hay?

Yes
No

32. Does the holding have access to an emergency power generator?

Yes
No

33. Does the holding have a dairy barn that is in use or in usable condition for milk production?

Yes → q. 34
No → q. 35

34. Give the cow capacity by type of barn:

	Cow capacity
Stanchion barn	|____|
Loose housing barn	|____|

35. Are there livestock on the holding?

Yes → q. 36
No → q. 39

36. For how many months of indoor feeding of livestock are there room for regulation-compliant storage of manure?

Slurry	|____| months
Solid dung	|____| months

37. Is built up or deep litter used?

Yes
No

38. Is there an approved fire alarm system in one or more of the farm buildings with livestock?

Yes
No

Machinery and implements

Only usable machinery and implements used by the holder(s) on the holding should be included. Enter shares with a decimal.

See the example to the right.

Example:

Own round baler alone |1,0|
Own 1/3 of round bale wrapper |0,3|

39. How many 4-wheeled tractors are at the disposal of the holder(s)? Include only tractors that have been in use in the last 12 months. |__,_|

40. Give information about each of the 4-wheeled tractors:

Share	Hp DIN	Model year	2-wheel drive	4-wheel drive	Use of the tractor, hours in last 12 months		
					1-99	100-399	400-
|__,_|	|__|	|19__	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
|__,_|	|__|	|19__	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
|__,_|	|__|	|19__	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
|__,_|	|__|	|19__	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
|__,_|	|__|	|19__	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

41. How many 2-wheeled tractors are on the holding? |__,_|

42. How many motorized mowers are on the holding? |__,_|

43. Give information about crop sprayer:

Share	Model year	Working width
|__,_|	|19__|	|__| meter

44. Give information about combine harvester(s):

Share	Model year	Working width
|__,_|	|19__|	|__| foot
|__,_|	|19__|	|__| foot

45. Enter the share or number of the individual implements for 4-wheeled tractors. Include only implements that are in usable condition.

Reversible plough	|__,_|
Conventional plough, 1-3 shares	|__,_|
Conventional plough, 4 or more shares	|__,_|
Harrow with stiff/spring spikes mounted to three-point linkage	|__,_|
Harrow with stiff/spring spikes, trailed	|__,_|
Rotary harrow	|__,_|
Centrifugal spreader for commercial fertilizer	|__,_|
Flail forage harvester	|__,_|
Mower with disc/rotor	|__,_|
Hay tedder/swath turner	|__,_|
Round baler	|__,_|
Round bale wrapper	|__,_|
Unloading wagon	|__,_|
Pick-up wagon	|__,_|
Combination drill (grain - fertilizer)	|__,_|
Fully automatic potato harvester	|__,_|
Front loader (loading apparatus)	|__,_|
Flatbed trailer for tractor, by total weight up to 6 tonnes	|__,_|
Flatbed trailer for tractor, by total weight 6 or more tonnes	|__,_|
Tank spreader for slurry	|__,_|

Contracting work and machinery pooling in the last 12 months

	Plough- ing/ harrow- ing	Seed- ing/ planting	Spray- ing	Harvest- ing with combine harvest- er	Mowing of coarse fodder plants with mower/ forage harvester	Bailing/ of straw/ coarse fodder	Spread- ing of manure	Hauling timber with farm tractor	Other contracting work with farm tractor (e. g. snow removal)
46. Do you do contracting work for others for payment?									
Yes <input type="checkbox"/> → What kind of work?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No <input type="checkbox"/>									
47. Do you hire work done (machinery + operator) for payment?									
Yes <input type="checkbox"/> → What kind of work?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No <input type="checkbox"/>									
48. Do you pool/exchange machinery without payment?									
Yes <input type="checkbox"/> → What kind of work?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No <input type="checkbox"/>									

Irrigation system

49. Does the holding have access to an irrigation system?

Yes → q. 50
No → q. 53

50. On how many decares of the holding's agricultural area can the system(s) be used?

|_____| decares

51. What type of irrigation equipment is used?

Mobile irrigator Pipe/hose with Drip irrigation
sprinklers

52. What kind of water source is used by the irrigation system?

River, stream etc. Lake, pond Groundwater

Education, supplementary industries, labour input

Single persons and married/cohabiting couples are to answer questions 53-61. Note that for married/cohabiting couples the information given is for both. General partnerships (joint operations), joint-stock companies, institutions etc. are to answer questions 55-56 and 58-61.

53. Tick the holder(s) marital status on 31 July 1999:

- Single
- Married couple, cohabiting couple

54. Tick the holder(s) agricultural education. Only courses or schooling of at least 5 months' duration shall be included.

- | | | | |
|--------|--------------------------|---|---|
| | No agricultural training | Foundation course, certificate of apprenticeship etc. | Agronomists, technician, higher education |
| Male | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Female | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

55. Do(es) the holder(s) run supplementary industry(ies) that use the holding's areas, buildings and/or machinery? See instructions.

- Yes → q. 56
 No → q. 57

56. Tick the type of supplementary industry(ies). See instructions.

- Contracting work with tractor, combine harvester etc.
- Camping site, cabin renting, other accommodation or farm tourism
- Processing own timber (sawn timber or fire wood) for sale
- Production and sale of Christmas trees or decorative greenery
- Arts and crafts or light industry
- Fur farming
- Leasing of sites
- Renting out farmhouse or farm buildings
- Renting out agricultural area
- Renting out hunting or fishing rights
- Other, specify:

57. List the holder(s) labour input in man-hours in the last 12 months. See instructions. Include spouse/cohabitant if applicable.

	On the holding			Off the holding		Total man-hours
	In agriculture and horticulture	In forestry	In supplementary industries, cf. q. 55	As employee	As self-employed person	
Male	|_|_| +	|_|_| +	|_|_| +	|_|_| +	|_|_| =	|_|_|
Female	|_|_| +	|_|_| +	|_|_| +	|_|_| +	|_|_| =	|_|_|

58. Have other family members or other persons - 15 or more years old - worked on the holding in the last 12 months? The persons must have worked - with or without pay - for the holder(s). Self-employed persons and firms are entered under question 61.

- Yes → q. 59
 No → q. 60

59. List family members and other persons who have worked on the holding in the last 12 months. See instructions.

<p><i>Family members:</i> Relatives in direct ascending or descending lineage and brother(s) and sister(s) of holder(s). <i>Regular help:</i> Persons who are not family members and have worked on the holding every week for all or part of the year. Include replacements. <i>Occasional help:</i> Persons who have performed short-term jobs, e.g. harvesting, rock-picking. Include holder's substitutes.</p>	Type of labour		Gender		Man-hours			Total	
	Family member	Regular help (non-family)	Male	Female	In agriculture and horticulture	In forestry	In suppl. industries, cf. q. 55		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_ _	+ _ _	+ _ _	=	_ _
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_ _	+ _ _	+ _ _	=	_ _
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_ _	+ _ _	+ _ _	=	_ _
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_ _	+ _ _	+ _ _	=	_ _
	Number of occasional help (non-family)		Males	|_|_|	|_|_|	+|_|_|	+|_|_|	=	|_|_|
		Females	|_|_|	|_|_|	+|_|_|	+|_|_|	=	|_|_|	

60. Have self-employed persons or firms been hired to do agricultural or horticultural work in the last 12 months?

- Yes → q. 61
 No → Quit

61. Hiring of self-employed persons or firms in the last 12 months. Enter number of man-hours. See instructions.

	Man-hours
For ongoing operation/production	|_|_|
For maintenance of farm buildings (not farmhouse)	|_|_|
For construction of new farm buildings (not farmhouse)	|_|_|
For ditching and reclamation	|_|_|

Return address (fits in the window of the replay envelope)	
Date:	Signature

Census of Agriculture 31 July 1999**Supplementary questionnaire for holdings which do not apply for governmental production subsidies**

(Pin code)	(Name of holding)	(Municipality number)
(Name of holder)	(Holders identity number)	(Land number)
(Name of co-holder)	(Co-holders identity number)	(Title number)
	(Organization number)	(Lease number)
		(Serial number)

Livestock on the holding 31 July 1999**Horses**

	No of heads
Breeding horses	|_____|
Young horses under 2 years old	|_____|
Other horses owned by the holder or in agistment on the holding	|_____|

Bovine animals

Dairy cows	|_____|
Male animals, 2 years old and over	|_____|
Male animals, 1-2 years old	|_____|
Male animals, 1 year old and under	|_____|
Female animals, 2 years old and over	|_____|
Female animals, 1-2 years old	|_____|
Female animals, 1 year old and under	|_____|
Other cows (beef cows)	|_____|

Goats

Dairy goats	|_____|
He-goats, young goats over 6 months	|_____|
Kids 6 months and under	|_____|
Other goats which have kidded	|_____|

Pigs

Breeding sows which have farrowed	|_____|
Breeding boars	|_____|
Young breeding sows, not yet farrowed, weighting 50 kg and over	|_____|
Young breeding boars, weighting 50 kg and over	|_____|
Piglets weighting under 20 kg	|_____|
Fattening pigs weighting 20 kg and over, breeding pigs weighting 20-50 kg	|_____|

Sheep

No of animals 1 June or at the time of putting animals to outfield grazing

	No of heads
Ewes, 1 year old and over	|_____|
Rams, 1 year old and over	|_____|
Lambs, under 1 year old	|_____|

Poultry

Laying hens, 20 weeks and over	|_____|
Breeding animals of duck, turkey and goose	|_____|
Pullets	|_____|
Broilers	|_____|
Fattening ducks	|_____|
Fattening turkeys	|_____|
Fattening geese	|_____|

Rabbits

Female rabbits which have littered |_____|

Fur bearing animals

Female mink and polecats	|_____|
Female fox	|_____|

Other coarse fodder animals

Deer	|_____|
Ostriches	|_____|
Llamas, alpacas and donkeys.	
Horses in agistment in grazing season	|_____|

Mountain dairy farming

Shall be filled in if the holding keeps dairy cows and/or dairy goats.

Has the holding mountain dairy farming lasting at least 4 weeks in summer 1999?

Yes, solely operated	<input type="checkbox"/>
Yes, jointly operated with other holdings	<input type="checkbox"/>
No	<input type="checkbox"/>

Use of the agricultural area 31 July 1999**Coarse fodder**

	Decares
Cultivated meadow	<input type="text"/>
Surface-cultivated meadow	<input type="text"/>
Other infield pastureland	<input type="text"/>
Fodder roots	<input type="text"/>
Rye grass, forage rape, marrow stem kale and unthinned turnips	<input type="text"/>
Other green forage crops	<input type="text"/>

Potatoes

	<input type="text"/>
--	----------------------

Cereals etc.

Spring wheat	<input type="text"/>
Winter wheat	<input type="text"/>
Rye	<input type="text"/>
Triticale	<input type="text"/>
Barley	<input type="text"/>
Oats	<input type="text"/>
Oil-seed crops, sown in spring	<input type="text"/>
Oil-seed crops, sown in autumn	<input type="text"/>
Peas, beans, green peas for processing etc.	<input type="text"/>
Meadow seed and other seeds	<input type="text"/>
Grain for silage	<input type="text"/>

Fruit and berry plantations

	Decares
Apple trees	<input type="text"/>
Pear trees	<input type="text"/>
Plum trees	<input type="text"/>
Cherry trees	<input type="text"/>
Strawberries	<input type="text"/>
Other berries	<input type="text"/>
Nurseries, field grown flowers	<input type="text"/>

Field grown vegetables

Swedes for food	<input type="text"/>
Other vegetables, included herbs	<input type="text"/>

Other agricultural area in use

Green manure	<input type="text"/>
Fallow	<input type="text"/>
Other area not elsewhere specified	<input type="text"/>

Agricultural area out of use

Cultivated or surface-cultivated	<input type="text"/>
Other infield pastureland	<input type="text"/>

Greenhouses and frames

Greenhouses and frames, heated as per 1 March 1999	<input type="text"/>
Other greenhouses and frames as per 1 March 1999	<input type="text"/>

Animals grazing in outfield areas

	No of heads
Dairy cows/other cows	<input type="text"/>
Other bovine animals	<input type="text"/>
Sheep, all ages	<input type="text"/>
Goats, all ages	<input type="text"/>
Horses, over 1 year old	<input type="text"/>

Date:

Signature:

Greenhouse and Horticulture Questionnaire

It is important to fill in the rubrics clearly and legibly. Use blue or black pen. Tick only one box for questions where the response boxes are joined (for example, yes/no questions). Several boxes may be ticked under "Greenhouse produce sales" questions, where the boxes are not joined. Further information about how the questionnaire should be filled in is otherwise described on page 1 of the instructions of the Main Questionnaire. If you have to fill in a blank questionnaire, it is important that municipality number, land number, title number, lease number, and serial number are filled in in addition to name and national identity number of the reference person. More information about holders, addresses, etc. is described on page 3 of the main instruction.

The first part of the questionnaire – General questions – shall be filled in by *everyone* subject to the greenhouse and horticultural census. In addition, the chapters shall be filled in in which the respondent has land areas meeting the minimum requirement for mandatory reporting. The minimum requirement is that the respondent meets at least one of the requirements below:

- Cultivates at least 2.0 decares of field-grown vegetables
- Cultivates at least 1.0 decare of fruit trees
- Cultivates at least 1.0 decare of field-grown berries (strawberries, raspberries, black currants or other berries)
- Cultivates at least 300 m² of greenhouse area
- Cultivates at least 1.0 decare of nursery area

Note that the area for field-grown vegetables, fruit trees, field-grown berries and nurseries is given in decares with one decimal.

General information

Share of income from greenhouse crops and horticultural production. 1998

Tick each line to show the individual production's share of the revenues of the *entire holding*. Those without production should tick the box "Not cultivated". Those who had production, but no profit (0 or loss), should tick the answer " – 9.9 %".

On the line for "Greenhouse and horticulture, total", tick horticulture's total share of the income of the holding. The sum of "Greenhouse and horticulture, total" and "Rest of holding" should be 100 %. If you tick that the greenhouse and horticulture portion totalled between 10 and 49.9 %, the rest of the holding must total between 50 and 89.9 %.

Example: A holding produces field-grown vegetables and berries in addition to the usual agricultural crops. The production of field-grown vegetables accounted for 40 per cent of the income of the holding, berry production 15 per cent and other agricultural production made up 45 per cent. You should then tick "10 – 49.9 %" for both "Vegetables, field grown" and "Berries". Tick "Not cultivated" for the other crops. On the line for "Greenhouse and horticulture, total" tick "50 – 89.9 %", and on the line for "Rest of the holding" tick the box for "10 – 49.9 %".

Labour input. 1998

The labour input is to be broken down for the various crops and for males and females. Use your judgement if the labour input is unknown. A full-time equivalent in manufacturing amounts to c. 1 750 hours. The actual labour input is to be given, not the labour input based on standardized man-hours by crop. There is more about labour input on page 8 of the instruction on the Main Questionnaire. Note that the labour input in question covers the year 1998, and not the last 12 months asked about in the Main Questionnaire.

The term foreign guest worker means persons who are in the country for short periods for harvesting work etc. Write 0 if you do not have such help.

Sales value by type of marketing. 1998

Answer in whole percentages based on the value of the products. If you do not know the exact figures, give your best estimate, preferably rounded off to the nearest whole 10 per cent.

The sum of each column filled in (below), should be 100 per cent.

Investments in greenhouses and other buildings. 1 000 kroner

Investment means permanent improvements that are capitalized. The investments shall be entered including investment tax, but without VAT. Do *not* include maintenance. Enter the investments for the years 1996, 1997 and 1998, rounded off to the nearest whole 1 000 kroner. Do *not* make deductions for any subsidies received for building projects. Do *not* include the value of your own work.

"Farm buildings with refrigerated rooms, cold storage, workrooms, packing plant, storerooms etc." includes all other types of buildings and rooms used in connection with greenhouse nursery or horticultural production. Investments in fittings etc. shall also be included.

Vegetables, field grown. Area on 31 July 1999

This section shall be filled in by everyone cultivating at least 2.0 decares of field-grown vegetables. The data shall cover the areas given in code 260 (table swedes), code 263 (other field-grown vegetables incl. herbs) and code 245 (processing peas and beans) on the Application for Governmental Production Subsidies 31 July 1999.

Enter the area only once even if you intend to harvest several crops on the same area during the growing season. The area shall be listed under the crop regarded as the main crop. Further specification of areas with several crops is entered in the section with successive crops in the bottom of page 1.

Areas planted in vegetables which on 31 July 1999 are lying fallow for a short period due to change of crop, shall be included as vegetable area, and entered under the crop regarded as the main crop.

Covers

Covers means covering materials laid *over* the plants. Areas where both horticultural fabrics and plastic are used are entered under "combination of horticultural fabrics/plastic".

Double crops

If several crops are grown on the same area in the course of the growing season, this shall be stated in the section on successive crops. Both crop(s) and area shall be given.

Example of questionnaire entry:

1. One crop of iceberg lettuce and one crop of cauliflower are harvested on 5 decares:

Iceberg lettuce/cauliflower 5 decares

In the section for single crops, enter 5 decares of iceberg lettuce *or* 5 decares of cauliflower depending on which crop is regarded as the main crop.

2. Three crops of iceberg lettuce are harvested on 4 decares:

Iceberg lettuce/iceberg lettuce/iceberg lettuce 4 decares

Enter 4 decares of iceberg lettuce in the section for single crops.

Fruit

This section shall be filled in by all who grow at least 1.0 decare of fruit trees. The data shall apply to the area that if applicable was listed in code 272 (apples), code 273 (pears), code 274 (plums) and code 271 (sweet cherries and cherries) on the Application for Governmental Production Subsidies 31 July 1999. In the Greenhouse and Horticultural Questionnaire, code 271 shall be divided between sour and sweet cherries.

The area planted with fruit trees shall be entered by variety and planting time for each variety. The area concerns the total area without deduction for any intermediate crops such as meadow.

Below is a list of the most common varieties of fruit that are included under "*Other*":

Other early varieties of apples: Alice, Close, Leinestrand and Melba

Other medium-late varieties of apples: James Grieve and Haugmann

Other late varieties of apples: Filippa, Fosseple, Ingrid Marie, Torstein, Raud Torstein and Karen Schneider

Other varieties of pears: Broket Juli, Williams, Bonne Louise, Conference, Gråpære, Herrepære and Herzogin Elsa

Early varieties of plums: Bonne de Bry, Czar, Edda and Early Rivers

Other varieties of plums: Ruth Gerstetter and Althans

Berries, field grown

This section shall be filled in by everyone growing at least 1.0 decares of field-grown berries, (strawberries, raspberries, black currants or other berries). The data shall apply to the area listed if applicable in code 280 (strawberries) and code 281 (other berries) on the Application for Governmental Production Subsidies 31 July 1999.

Strawberries shall be categorized as bearing, new plantings or young plant production. All land area planted in other varieties of berries shall be included.

Greenhouses

This section shall be filled in by everyone cultivating at least 300 m² under glass outside greenhouse areas only used as a nursery. The data shall apply to the area listed in code 251 (heated greenhouse) and code 250 (other greenhouse) in the Application for Governmental Production Subsidies 31 July 1999. Also include greenhouses that are usable even though they are not currently in use. Note that the area of hotbeds shall *not* be included even though production subsidies have been applied for such areas.

Greenhouses are defined as spaces into which a person can walk without removing the glass or plastic cover. Spaces with lower ceiling heights are regarded as hotbeds and shall *not* be included here.

Separate between greenhouses with heating systems and greenhouses without permanent heating systems.

Energy consumption

1 m³ wood chips is equal to c. 100 kg (0.1 tonne). Gas used for supplying CO₂ shall also be listed under energy consumption.

Growing lights

List only growing lights, not working lights or lights to regulate the length of the day.

Greenhouse crops. Total production in 1998.

Area shall be given as *annual square metres*, which means the greenhouse area shall only be counted once. If the same crop is harvested several times on the same area, the area should only be counted once. If different crops are harvested on the same area, the total area is to be distributed among the crops according to how long time (days or months) the various crops are cultivated.

Example 1: If three crops of "Other lettuce" are harvested on 1 500 m², enter 1 500 m² under "Other lettuce" and not 4 500 m².

Example 2: If "Cucumbers" are grown on 1 500 m² from January to September (9 months), and "Poinsettias" are grown from October to December (3 months), 1 100 m² (1 500*9/12) shall be entered for "Cucumber" and 400 m² (1 500*3/12) for "Poinsettias", and not 1 500 m² for each of the crops.

Flowering potted plants

The number of square metres used for flower production includes areas for flowering potted plants, decorative plants, bedding plants (annuals), bulb flowers in pots and miniature potted plants. Give the annual square metres (see above).

Give the number of plants in thousands divided between "For further cultivation" and "Finished product". In the "For further cultivation" column list only the plants *sold* for further cultivation in other greenhouse nurseries. In the column for "Finished products" list all plants ready for sale, both those purchased as "semi-finished" from other greenhouse nurseries and those grown by you. It is important that the same plants are not listed in both columns.

Please note that only "New Guinea hybrids" of "Impatiens" shall be included as flowering potted plants. Other hybrids of "Impatiens" (*Impatiens walleriana*) shall be listed in the bedding plant section.

Nursery production

This section shall be filled in by everyone who has at least 1.0 decare of nursery area for growing ornamental plants, fruit trees or berry shrubs. Whole or part of the nursery area can be entered in code 285 (nursery and flower growing outdoors) in the Application for Governmental Production Subsidies. Note that forest nurseries are *not* covered by the greenhouse and horticultural census. Those running a combined operation shall fill in the section if the part of the nursery used to produce ornamental plants, fruit trees and berry shrubs totals at least 1.0 decare.

The field area shall refer to 31 July 1999, and is given with one decimal. The area of container-grown plants and greenhouse area shall be given in m².

Sold production shall be given as the number of plants. Note that plants imported for direct sale *shall not* be included.

Census of Agriculture 31 July 1999 - Greenhouse and Horticulture Questionnaire

(Pin code)	(Name of holding)	(Municipality number)
(Name of holder)	(Holders identity number)	(Land number)
	(Organization number)	(Title number)
		(Lease number)
		(Serial number)

General information (are to be answered by all)

Share of income from greenhouse crops and horticultural production, 1998

Entire holding = 100 %

	Not cultivated	-9,9 %	10-49,9 %	50-89,9 %	90- %
Vegetables, field grown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fruit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Berries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Greenhouse - vegetables/berries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Greenhouse - flowers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nursery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Greenhouse and horticulture, total		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rest of the holding		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Labour input 1998

	Man-hours, males	Man-hours, females
Vegetables, field grown	<input type="text"/>	<input type="text"/>
Fruit	<input type="text"/>	<input type="text"/>
Berries	<input type="text"/>	<input type="text"/>
Greenhouse crops	<input type="text"/>	<input type="text"/>
Nursery	<input type="text"/>	<input type="text"/>

How much of the labour input was performed by foreign guest workers? %

Sales value by type of marketing, 1998. Per cent

	Vegetables, field grown	Fruit	Berries	Greenhouse crops	Nursery
Sales to wholesalers/commission agents	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sales to canneries	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sales to retailers and consumers, incl. pick your own	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other sales	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total sales	100	100	100	100	100

Investments in greenhouses and other buildings, 1000 kroner

	1996	1997	1998
Greenhouses, incl. fittings and heating systems	<input type="text"/>	<input type="text"/>	<input type="text"/>
Farm buildings with refrigerated rooms, cold storage, workrooms, packing plant, storerooms etc. -of which refrigerated rooms or cold storage	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total	<input type="text"/>	<input type="text"/>	<input type="text"/>

Vegetables, field grown. Area on 31 July 1999

	Decares
Onions	<input type="text"/>
Leeks	<input type="text"/>
Beetroots	<input type="text"/>
Common cabbage (harvested before 1 August)	<input type="text"/>
Common cabbage (harvested 1 August or later)	<input type="text"/>
Red cabbage	<input type="text"/>
Brussels sprouts	<input type="text"/>
Cauliflower	<input type="text"/>
Broccoli	<input type="text"/>
Chinese cabbage	<input type="text"/>
Turnips	<input type="text"/>
Table swedes	<input type="text"/>
Processing peas and beans	<input type="text"/>
Radishes	<input type="text"/>
Sweet corn	<input type="text"/>
Gherkin	<input type="text"/>
Carrots	<input type="text"/>
Root celery	<input type="text"/>
Celery	<input type="text"/>
Turnip-rooted parsley	<input type="text"/>
Curled parsley, field grown	<input type="text"/>
Iceberg lettuce	<input type="text"/>
Other lettuce, field grown	<input type="text"/>
Other vegetables, field grown	<input type="text"/>
Vegetables, total	<input type="text"/>

Covers

Are covers used on all or part of the area used for growing vegetables?

Yes
No

If yes:

Number of decares with horticultural fabrics	<input type="text"/>
Number of decares with plastic	<input type="text"/>
Number of decares with combination of horticultural fabrics, plastic or other covers	<input type="text"/>

Successive crops (several vegetable crops on the same land in the course of one year). See instructions

Crop succession	Decares
.....	<input type="text"/>
.....	<input type="text"/>
.....	<input type="text"/>

Fruit

List area in decares according to planting period

-1984	1985-1994	1995-
-------	-----------	-------

Early apples			
Discovery	|_|_|	|_|_|	|_|_|
Julyred	|_|_|	|_|_|	|_|_|
Vista Bella	|_|_|	|_|_|	|_|_|
Quinte	|_|_|	|_|_|	|_|_|
Other early apple varieties	|_|_|	|_|_|	|_|_|
Medium late and late apple varieties			
Ordinary and Red Prince	|_|_|	|_|_|	|_|_|
Ordinary Gravenstein	|_|_|	|_|_|	|_|_|
Red Gravenstein	|_|_|	|_|_|	|_|_|
Summer Red	|_|_|	|_|_|	|_|_|
Aroma	|_|_|	|_|_|	|_|_|
Åkerø	|_|_|	|_|_|	|_|_|
Lobo	|_|_|	|_|_|	|_|_|
Other medium late apple varieties	|_|_|	|_|_|	|_|_|
Other late apple varieties	|_|_|	|_|_|	|_|_|
Pears			
Keiserinne	|_|_|	|_|_|	|_|_|
Amanlis	|_|_|	|_|_|	|_|_|
Moltke	|_|_|	|_|_|	|_|_|
Philip	|_|_|	|_|_|	|_|_|
Clara Frijs	|_|_|	|_|_|	|_|_|
Other pear varieties	|_|_|	|_|_|	|_|_|
Plums			
Early plums	|_|_|	|_|_|	|_|_|
Edda	|_|_|	|_|_|	|_|_|
Opal	|_|_|	|_|_|	|_|_|
Victoria	|_|_|	|_|_|	|_|_|
Mallard	|_|_|	|_|_|	|_|_|
Other plum varieties	|_|_|	|_|_|	|_|_|
Cherries	|_|_|	|_|_|	|_|_|
Sweet cherries	|_|_|	|_|_|	|_|_|
Fruit, total	|_|_|	|_|_|	|_|_|

Berries, field grown

	Decares
Strawberries, bearing	|_|_|
Zefyr	|_|_|
Senga Sengana	|_|_|
Korona	|_|_|
Bounty	|_|_|
Other strawberry varieties	|_|_|
Strawberries newly planted (not bearing)	|_|_|
Strawberries young plant production	|_|_|
Raspberries	|_|_|
Black currants	|_|_|
Cultivated blueberries	|_|_|
Other berries	|_|_|
Berries, total	|_|_|

Covers

Are covers used under or over the plants on all or part of the area planted in strawberries?

Yes No

If yes:

Number of decares with plastic on the ground under the plants |_|_|

Number of decares with plastic or other covers over the plants |_|_|

Greenhouses**Number of greenhouses and greenhouse area on 31 July 1999**

	No of houses	m ²
Greenhouses with heating system	|_|_|	|_|_|_|_|
Greenhouses without permanent heating system, incl. plastic houses	|_|_|	|_|_|_|_|

Greenhouse crops sales

Does the holding have its own shop, selling produce from the greenhouse, incl. selling out from vehicles?

Yes No

If yes:

Shop at the holding Shop outside the holding Sell out from own vehicle **Energy consumption in greenhouses. 1998**

Coal, coke etc.	|_|_|_|	tonnes
Bio energy (chips, wood, straw etc.)	|_|_|_|	tonnes
Heating oil no. 6	|_|_|_|	tonnes
Heating oil no. 1, FSD	|_|_|_|	1000 litres
Gas	|_|_|_|	tonnes
Electricity, electric boiler etc.	|_|_|_|	1000 kWh
Other electricity	|_|_|_|	1000 kWh
Electricity, total	|_|_|_|	1000 kWh

Heating plant

	Number
Electric boiler	|_|_|
Heat pump	|_|_|

Growing lights

	No of fixtures	Lighted area, m ²
High pressure mercury halogen	|	|
High pressure natrium steam	|	|
Other fixtures	|	|
Total	|	|

CO₂ supply

Do you pipe in:

	Flower area, m ²	Vegetable area, m ²
Pure CO ₂ ? Yes <input type="checkbox"/> →		
No <input type="checkbox"/>		
CO ₂ from gas-fired boiler? Yes <input type="checkbox"/> →		
No <input type="checkbox"/>		
CO ₂ from other burning of propane/kerosene Yes <input type="checkbox"/> →		
No <input type="checkbox"/>		

Irrigation system

Recirculation of water to flowers	Yes <input type="checkbox"/> →	m ²
No <input type="checkbox"/>		
Recirculation of water to vegetables	Yes <input type="checkbox"/> →	m ²
No <input type="checkbox"/>		

Insulation/light intensity system - regulation of length of day

Shading system	Yes <input type="checkbox"/> →	m ²
No <input type="checkbox"/>		
Short day system	Yes <input type="checkbox"/> →	m ²
No <input type="checkbox"/>		

Internal transport

Conveyor belt - overhead conveyor - train of rollers? Yes <input type="checkbox"/>	No <input type="checkbox"/>
Travelling crane? Yes <input type="checkbox"/>	No <input type="checkbox"/>

Growing media

	m ² peat	m ² rock wool	m ² other
Tomatoes	|	|	|
Cucumbers	|	|	|
Cut flowers	|	|	|

Biological/integrated plant protection

Are biological/integrated plant protection used in all or part of the production of vegetables?

Yes No

Are biological/integrated plant protection used in all or part of the production of flowers?

Yes No **Greenhouse crops. Total production in 1998. The area refers to annual square metres. See instructions.****Vegetables**

	1000 pieces	m ²
Rapid lettuce	|	|
Head lettuce	|	|
Other lettuce	|	|
Herbs	|	|

	m ²
Tomatoes	
Only culture	|
In combination with other cultures	|
Cucumbers	
Only culture	|
In combination with other cultures	|
Other vegetables in greenhouse	|

Berries

	m ²
Strawberries	|
Other berries in greenhouse	|

Cut flowers

	1000 pieces	m ²
Tulips (<i>Tulipa</i> spp.)	|	|
Roses (<i>Rosa</i> spp.)	|	|
Chrysanthemums (<i>Deudranthema x grandiflorum</i>)	|	|
Lilies (<i>Lilium</i> spp.)	|	|
Inca lilies (<i>Alstrpmeria aurantiaca</i>)	|	|
Gerberas (<i>Gerbera jamesonii</i>)	|	|
Other cut flowers	|	|
Cut flowers total	|	|

How many m² are used for flower production?

Do not include cut flowers and vegetables. |

Flowering potted plants, 1000 pieces

	For further cultivation	Finished product
Poinsettias (<i>Euphorbia pulcherrima</i>)	|	|
Potted chrysanthemums (<i>Deudranthema x grandiflorum</i>)	|	|
Begonia hiemalis (<i>Begonia x hiemalis</i>)	|	|
Kalanchoes (<i>Kalanchoe blossfeldiana</i>)	|	|
Geraniums (<i>Pelargonium x hortorum</i>)	|	|
African violets (<i>Saintpauli ionantha</i>)	|	|
Potted roses (<i>Roses</i> spp.)	|	|
Primulas (<i>Primula</i> spp.)	|	|
Ivy Geraniums (<i>Pelargonium x peltatum</i>)	|	|
Gerberas (<i>Gerbera jamesonii</i>)	|	|
Azaleas (<i>Rhododendron simsii</i>)	|	|
Impatiens (<i>Impatiens wallerana</i>)	|	|
Begonia cheimanthas (<i>Begonia x cheimantha</i>)	|	|
Cyclamena (<i>Cyclamen persicum</i>)	|	|
Hydrangeas (<i>Hydrangea macrophylla</i>)	|	|
Other flowering potted plants	|	|
Flowering potted plants, total	|	|

Decorative plants, 1000 pieces

	For further cultivation	Finished product
Ivy foliage plants (<i>Hedera</i> spp.)	_____	_____
Ferns (<i>Nephrolepis</i> spp.)	_____	_____
Baby's tears (<i>Soleirolia soleirolii</i>)	_____	_____
Golden pathos (<i>Epipremnum aureum</i>)	_____	_____
Peperomias (<i>Peperomia</i> spp.)	_____	_____
Dieffenbachias (<i>Dieffenbachia</i> spp.)	_____	_____
Krotons (<i>Codiaeum variegatum</i>)	_____	_____
Syngoniums (<i>Syngonium</i> spp.)	_____	_____
Umbrella trees (<i>Schefflera</i> spp.)	_____	_____
Begonias (<i>Begonia</i> spp.)	_____	_____
Ficus (<i>Ficus benjamina</i>)	_____	_____
Other decorative plants	_____	_____
Decorative plants, total	_____	_____

Bedding plants, 1000 pieces

	For further cultivation	Finished product
Pansies (<i>Viola</i> spp.)	_____	_____
Lobelias; edging and trailing (<i>Lobelia</i> spp.)	_____	_____
Petunias; ordinary (<i>Petunia x Hybrida</i>)	_____	_____
Marguerites (<i>Argyranthemum frutescens</i>)	_____	_____
Marigolds (<i>Tagetes</i> spp.)	_____	_____
Dianthus (<i>Dianthus chinensis</i>)	_____	_____
Wax begonias (<i>Begonia x semperflorens-cultorum</i>)	_____	_____
Dahlias (<i>Dahlia</i> spp.)	_____	_____
Sweet alyssums (<i>Lobularia maritima</i>)	_____	_____
Hanging petunias (<i>Petunia x hybrida</i>)	_____	_____
Africans daisies (<i>Osteospermum</i> spp.)	_____	_____
Bedding impatiens (<i>Impatiens wallerana</i>)	_____	_____
Other bedding plants	_____	_____
Bedding plants, total	_____	_____

Bulb flowers in pots, 1000 pieces

	Number
Amaryllises (<i>Hippeastrum</i> spp.)	_____
Daffodils (<i>Narcissus</i> spp.)	_____
Hyacinths (<i>Hyacinthus orientalis</i>)	_____
Other bulb flowers in pots	_____
Bulb flowers, total	_____

Mini-potted plants, finished product, 1000 pieces

	Number
Poinsettias (<i>Hippeastrum</i> spp.)	_____
Kalanchoes (<i>Kalanchoe blossfeldiana</i>)	_____
African violets <i>Saintpaulia ionantha</i>)	_____
Potted roses (<i>Rosa</i> spp.)	_____
Other	_____
Mini-potted plants, total	_____

Vegetables, young plant production, 1000 pieces

	Number
Tomatoes	_____
Cucumbers	_____
Other vegetables	_____
Vegetables, total	_____

Nursery production

Outdoor area on 31 July 1999

Finished products	_____ decares
Young plants	_____ decares
Area temporarily out of production	_____ decares
Other area	_____ decares
Container-grown plants	_____ m ²

Greenhouse area 31 July 1999

Greenhouse area, total	_____ m ²
-of which plastic film greenhouse	_____ m ²

Nursery production, sold production 1998. Number of plants in 1000 pieces, except deciduous trees, berry shrubs and fruit trees. Do not include imported plants for direct sale.

	Bare root plants	Balled or bur-lapped plants	Contain-er-grown plants	Young plants
Deciduous trees, 100 pcs	_____	_____	_____	_____
Berry shrubs, 100 pcs	_____	_____	_____	_____
Fruit trees, 100 pcs	_____	_____	_____	_____
Coniferous plants (not forest plants)	_____	_____	_____	_____
Ornamental shrubs	_____	_____	_____	_____
Hedge and mass plants	_____	_____	_____	_____
Rose plants	_____	_____	_____	_____
Climbing plants	_____	_____	_____	_____
Herbaceous perennials	_____	_____	_____	_____

Date:	Signature:
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Previously issued on the subject

Official Statistics of Norway (NOS)

The first separate, complete agricultural census was held in 1907. Since then complete censuses have been held in 1918, 1929, 1939, 1949, 1959, 1969, 1979, 1989 and 1999. For each census publications in the series *Official Statistics of Norway* have been published.

Results from the 1999 Agricultural Census have previously been issued at county and municipality level. The following publications are printed in Norwegian only:

C	652	Vestfold
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Except for the years when complete censuses were held, sample surveys have been held almost every year since 1923. From 1923 to 1936 these censuses were published in NOS Landbruksareal og husdyrhold. These publications are mainly in Norwegian except for a table index in French. From 1937 agricultural statistics have been published in *Official Statistics of Norway; Agricultural Statistics*.

Agricultural Statistics

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Other reports

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