

Structure of agricultural holdings

Norway 2003

Statistics in focus

AGRICULTURE AND FISHERIES

40/2005

Agriculture

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A farm structure survey was carried out in all EU Member States in 2003 (2002 in Poland). The detailed results are now available for all Member States as well as for Romania and Norway. This Statistics in Focus is part of a series of country-specific publications on these results, all following the same structure.

* * *

In Norway, in June/July 2003, about 58 000 agricultural holdings had an economic size of at least 1 ESU (European Size Unit)*, which means 16% decline compared to 1999.

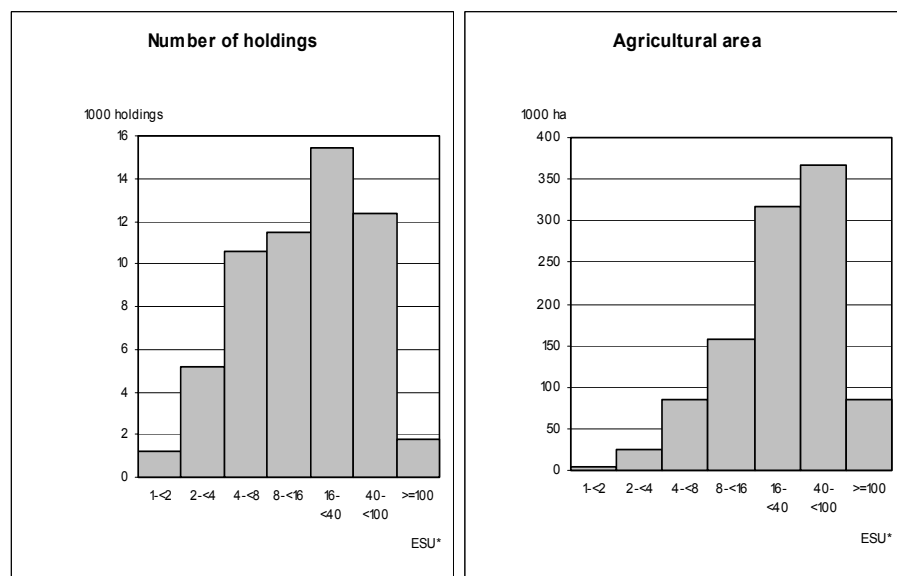
- These holdings employed 64 100 AWUs (annual work units), the equivalent of 64 100 persons working full time;
- they made use of about 1 million ha of agricultural area, which is on average 17.9 hectare per holding (compared to 15 ha in 1999).

Amongst these 58 000 agricultural holdings

- 49% made use of less than one AWU, while 12% made use of 2 or more AWUs;
- 14% used less than 5 ha, while 4% used 50 ha or more;
- 11% were mixed holdings, while 89% were specialised: dairies 27%, sheep, goats and other grazing livestock 26%, cereals, oil seed and protein crops 18%, cattle fattening and rearing 7%, field cropping 6%, pigs and poultry 2%, horticulture 2% (of which 51% under glass) and fruit orchards 1%;
- about 3% practised organic farming.

Amongst the 57 800 sole holders

- 13% were women;
- 33% were aged 55 or more, and 10% younger than 35 years;
- 37% had another gainful activity as major occupation.

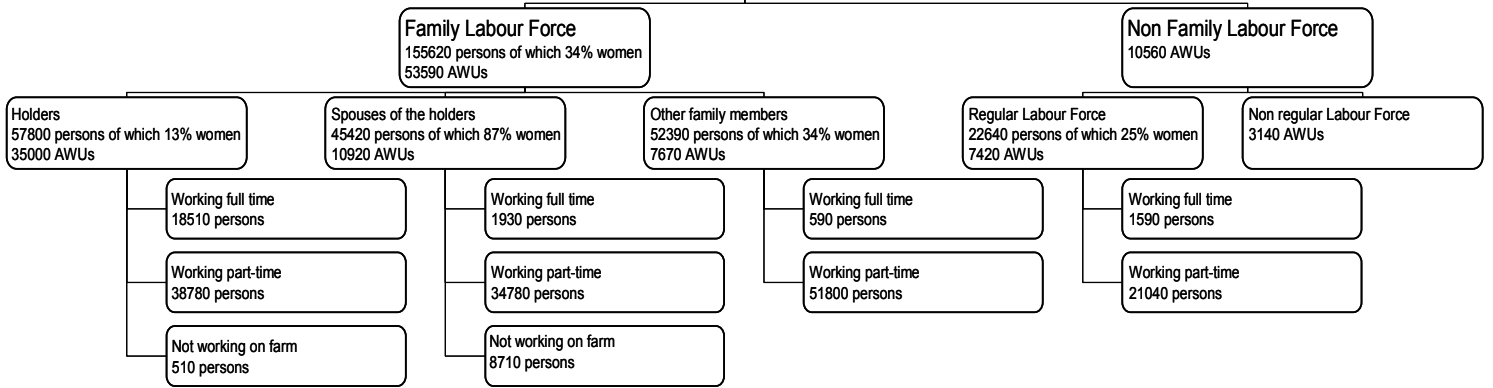


* ESU measures the economic size of the holdings (see methodological notes).

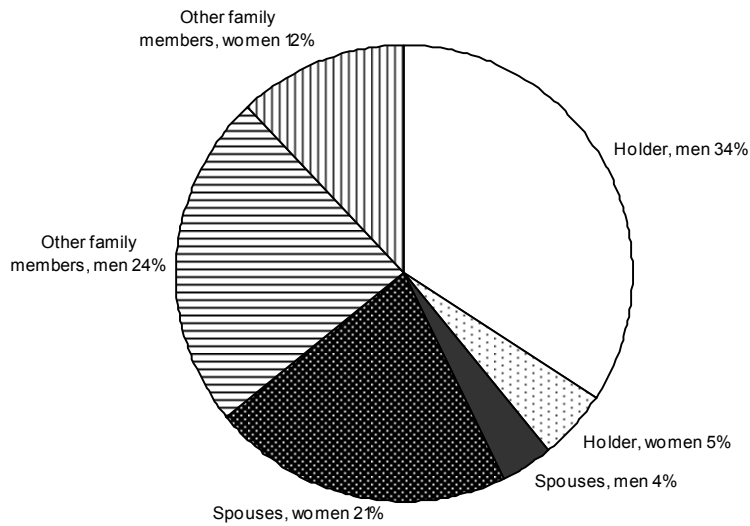


Norway 2003 – Holdings of at least 1 ESU

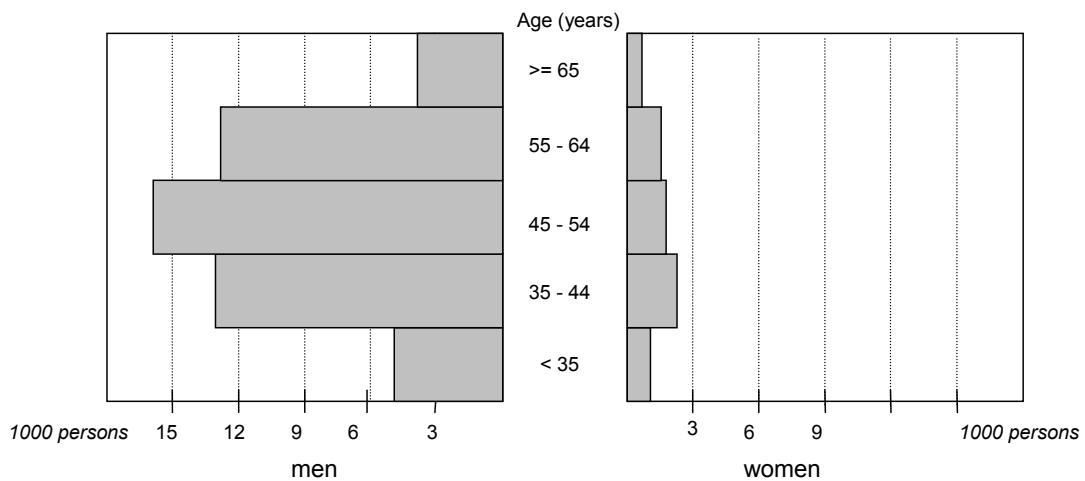
Agricultural Labour Force



Family labour force by gender and status



Farm managers



Symbols : not available 0 less than half of the unit or nil

Economic size (ESU)	<1	>=1	1-<2	2-<4	4-<8	8-<16	16-<40	40-<100	>=100
Total labour force									
1000 annual work units	0.1	64.1	0.3	1.6	4.9	8.5	20.1	22.2	6.6
Family labour force									
1000 persons	0.5	155.6	2.8	12.0	26.1	29.9	44.2	35.8	4.8
1000 annual work units	0	53.6	0.3	1.5	4.7	8.0	18.1	18.1	2.9
Non-family labour regularly employed									
1000 persons	0.1	22.6	0	0.5	1.2	2.1	6.1	9.3	3.5
1000 annual work units	0	7.4	0	0.1	0.1	0.4	1.4	3.2	2.2
Non regular non family labour force									
1000 annual work units	0	3.1	0	0	0.1	0.1	0.6	0.9	1.5
Holding managers (1000)	0.3	58.0	1.2	5.2	10.6	11.5	15.4	12.3	1.8
- women (%)	17.0	12.6	19.4	17.8	17.6	14.4	11.4	7.4	4.0
- part-time									
- under 50 % (%)	100.0	41.7	99.6	96.8	78.2	53.7	21.9	5.7	4.4
- 50 % and over (%)	0	26.1	0.4	3.2	21.1	36.7	34.5	21.9	22.6
Sole/main holders (1000)	0.2	57.8	1.2	4.9	10.2	11.2	15.8	12.7	1.9
- women (%)	17.4	13.1	23.2	18.8	18.1	15.0	11.4	7.5	3.7
- distribution by age (%)									
- under 35 years	0	10.4	2.6	8.4	9.4	9.6	10.6	13.5	9.6
- from 35 to 44 years	31.3	26.6	15.3	18.5	22.3	26.6	28.7	30.6	33.4
- from 45 to 54 years	27.7	30.5	29.2	30.1	29.4	29.6	30.8	31.7	32.7
- from 55 to 64 years	34.8	24.8	22.3	26.5	27.2	25.6	25.1	22.0	21.3
- 65 years and over	6.3	7.7	30.5	16.6	11.7	8.6	4.8	2.3	3.0
- part-time									
- under 50 % (%)	99.1	41.5	96.9	95.3	77.4	53.1	22.0	5.8	5.5
- 50 % and over (%)	0	25.6	0	3.5	20.9	36.0	34.0	21.6	20.7
- with another gainful activity ¹ (%)	68.9	74.6	63.6	75.1	77.5	79.7	75.9	67.6	65.5
- as main occupation	68.9	36.5	50.4	63.7	59.2	51.3	26.2	7.9	7.9
- as a subsidiary occupation	0	38.1	13.2	11.4	18.3	28.4	49.6	59.7	57.5
Spouse of sole holder (1000)	0.2	45.4	0.9	3.8	8.0	8.7	12.6	10.0	1.3
- women (%)	83.0	86.7	80.2	81.8	81.5	84.9	88.1	92.1	95.3
- distribution by age (%)									
- under 35 years	17.0	13.6	3.9	9.9	11.6	13.1	13.7	17.3	17.7
- from 35 to 54 years	59.1	62.0	57.1	56.3	59.2	59.6	64.4	65.7	63.4
- 55 years and over	25.1	24.4	38.9	33.9	29.3	27.2	22.0	17.1	18.9
- part-time									
- under 50 % (%)	52.0	61.3	56.5	71.3	70.4	70.3	57.7	50.2	40.7
- 50 % and over (%)	1.2	15.2	4.0	3.2	4.5	8.2	21.9	25.6	27.0
- with another gainful activity (%)	56.7	63.8	60.5	66.3	68.5	68.7	64.2	57.2	44.2
- as main occupation	56.7	52.4	54.9	61.0	62.9	58.6	49.4	41.5	31.1
- as a subsidiary occupation	0	11.4	5.5	5.3	5.6	10.1	14.8	15.6	13.1
Other members of the holder's family working on the holding (1000)	0.1	52.4	0.7	3.3	7.9	9.9	15.8	13.1	1.6
- women (%)	54.7	33.6	32.9	35.9	34.8	31.2	33.8	33.6	34.6
- part-time									
- under 50 % (%)	73.4	93.2	99.3	98.8	97.7	97.2	93.7	88.0	68.9
- 50 % and over (%)	0	5.7	0.7	1.2	2.1	2.7	5.5	10.0	20.7
- with another gainful activity (%)	10.9	51.6	55.7	62.0	57.3	53.9	50.8	46.6	34.9

¹ Only holders being also farm managers.

Symbols : not available 0 less than half of the unit or nil

Economic size (ESU)	<1	>=1	1-<2	2-<4	4-<8	8-<16	16-<40	40-<100	>=100
Holdings									
- total number (1000)	0.3	58.0	1.2	5.2	10.6	11.5	15.4	12.3	1.8
- by legal personality of the holder (%)									
- sole holder	100.0	96.7	100.0	99.0	99.5	99.0	98.1	92.9	74.7
- legal person	0	0.3	0	0.2	0	0.2	0.1	0.3	5.5
- group holders	0	3.0	0	0.8	0.5	0.8	1.8	6.8	19.8
- by employed labour force (%)									
- under 1 AWU	89.3	48.9	100.0	99.1	92.1	69.4	27.8	5.4	1.5
- from 1 to less than 2 AWU	9.8	38.7	0	0.9	7.9	29.2	61.2	64.0	26.0
- from 2 to less than 3 AWU	0.9	9.6	0	0	0	1.3	10.0	25.4	31.5
- 3 AWU and over	0	2.8	0	0	0	0.1	1.0	5.1	41.1
- by agricultural area (%)									
- under 5 ha	96.7	13.7	92.5	59.9	14.3	6.3	3.5	5.1	18.2
- from 5 to less than 20 ha	3.0	53.3	7.5	40.1	85.0	79.5	50.7	21.5	7.9
- from 20 to less than 50 ha	0.4	29.0	0	0	0.7	14.1	44.3	62.5	33.4
- from 50 to less than 100 ha	0	3.5	0	0	0	0	1.5	10.3	30.9
- 100 ha and over	0	0.4	0	0	0	0	0	0.6	9.6
- by livestock size (%)									
- without livestock	48.0	27.1	34.3	35.4	38.8	38.7	22.0	9.3	21.1
- under 10 LSU ⁺	50.2	18.2	64.6	63.4	38.2	14.2	4.5	0.9	1.9
- from 10 to less than 20 LSU	1.1	17.2	1.1	0.9	22.5	31.0	24.1	1.9	0.6
- from 20 to less than 50 LSU	0.7	27.1	0.1	0.2	0.5	15.8	44.6	56.0	2.8
- from 50 to less than 100 LSU	0	8.0	0	0	0	0.3	4.3	27.0	34.2
- 100 LSU and over	0	2.4	0	0	0	0	0.5	4.9	39.4
- by farm type (%)									
... specialist cereals, oil seed and protein crops	28.0	17.7	22.4	21.6	25.8	27.9	15.4	4.1	2.0
... general field cropping	8.5	5.6	4.5	5.7	7.3	7.7	5.2	3.0	4.2
... specialist horticulture	0.4	2.0	0.1	0.3	0.4	0.8	2.0	3.1	18.8
... specialist vineyard	0	0	0	0	0	0	0	0	0
... specialist fruit and citrus fruit	0.4	1.1	0.5	0.5	1.3	2.0	1.2	0.3	0.2
... specialist olives	0	0	0	0	0	0	0	0	0
... various permanent crops combined	0.4	0	0.2	0	0.1	0	0	0	0
... specialist dairy farming	0	27.3	0	0.1	0.3	4.8	43.3	64.6	32.4
... specialist cattle – rearing and fattening	2.2	6.6	6.0	7.0	6.6	9.9	7.8	2.7	1.7
... cattle – dairy farming, rearing and fattening combined	0	1.2	0	0	0	0.1	0.9	3.3	7.6
... sheep, goats and other grazing livestock	49.4	25.6	56.2	51.8	46.6	34.9	13.3	4.0	0.6
... specialist granivores	1.5	2.4	0.2	0.2	0.4	1.4	2.6	4.5	10.4
... mixed cropping	0	1.4	1.1	0.8	0.9	1.2	1.5	2.0	3.5
... mixed livestock, mainly grazing livestock	0.4	0.5	0.3	0.4	0.3	0.2	0.3	0.8	3.4
... mixed livestock, mainly granivores	0	1.4	0.2	0.2	0.4	0.6	1.6	2.9	7.0
... field crops – grazing livestock combined	4.8	5.5	8.0	10.6	9.1	7.6	2.9	1.6	3.6
... various crops and livestock combined	4.1	1.7	0.4	0.7	0.5	1.0	1.9	3.1	4.7
- by farming methods (%)									
- organic farming	1.8	3.3	1.5	2.2	3.0	3.6	3.7	3.3	5.4
- irrigating	:	:	:	:	:	:	:	:	:
- with crops under glass	0.4	1.9	0.2	0.2	0.3	0.7	1.9	2.9	17.0
- % in less favoured or mountain area	0	0	0	0	0	0	0	0	0

+ LSU : Livestock Unit

Symbols : not available 0 less than half of the unit or nil

Economic size (ESU)	<1	>=1	1-<2	2-<4	4-<8	8-<16	16-<40	40-<100	>=100
Area (1000 ha)									
• Total area of agricultural holdings	5.4	7183.3	73.9	264.3	1054.6	1399.0	2509.6	1639.3	242.6
• H. Other area	4.9	6143.4	70.4	241.7	972.5	1246.1	2189.4	1268.3	155.1
Wooded area ¹	4.2	2630.8	45.2	103.7	425.8	565.7	808.4	585.0	97.1
• Agricultural area	0.4	1039.9	3.3	24.6	85.5	158.1	316.7	365.9	85.8
- D. Arable land	0.2	632.0	1.2	9.9	42.7	92.1	187.3	230.2	68.6
Cereals	0.1	327.9	0.7	5.5	25.4	57.8	100.4	99.7	38.5
Common wheat and spelt	0	75.8	0	0.2	2.2	9.4	23.2	27.0	13.7
Durum wheat	0	0	0	0	0	0	0	0	0
Rye	0	4.1	0	0	0.2	0.5	1.0	1.5	0.9
Barley	0.1	161.6	0.4	2.9	13.3	28.5	47.8	50.2	18.4
Oats	0	84.8	0.2	2.2	9.7	19.3	28.1	20.1	5.1
Grain maize	0	0	0	0	0	0	0	0	0
Dried pulses	0	0	0	0	0	0	0	0	0
Root crops	0	14.6	0	0.1	0.2	0.6	2.7	6.8	4.1
Potatoes	0	14.6	0	0.1	0.2	0.6	2.7	6.8	4.1
Sugar beet	0	0	0	0	0	0	0	0	0
Fodder root ²	0	0	0	0	0	0	0	0	0
Industrial crops	0	7.5	0	0	0.3	0.8	2.5	2.9	1.0
Tobacco	0	0	0	0	0	0	0	0	0
Hops	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0
Rape and turnip	0	7.5	0	0	0.3	0.8	2.5	2.9	1.0
Sunflower	0	0	0	0	0	0	0	0	0
Soya	0	0	0	0	0	0	0	0	0
Fresh vegetables, melons,	0	8.3	0	0	0.1	0.2	0.9	2.7	4.4
outside ³	0	8.3	0	0	0.1	0.2	0.9	2.7	4.3
under glass	0	0.1	0	0	0	0	0	0	0
Flower and ornamental plants	0	0.1	0	0	0	0	0	0	0.1
outside ⁴	0	0	0	0	0	0	0	0	0
under glass	0	0.1	0	0	0	0	0	0	0.1
Forage plants ²	0	268.4	0.4	4.1	16.2	31.9	79.3	116.4	20.0
Fallow land	0.1	2.2	0	0.1	0.4	0.4	0.6	0.5	0.1
- E. Kitchen garden	0	0	0	0	0	0	0	0	0
- F. Permanent pasture and meadows	0.2	404.7	2.1	14.7	42.6	65.2	128.0	135.1	17.0
- G. Permanent crops	0	3.3	0	0	0.2	0.7	1.4	0.7	0.2
Fruit and berry plantation	0	3.0	0	0	0.2	0.7	1.3	0.6	0.2
Citrus plantation	0	0	0	0	0	0	0	0	0
Olive trees	0	0	0	0	0	0	0	0	0
Vineyard	0	0	0	0	0	0	0	0	0
Ratios									
Agricultural area per holding (ha)	1.6	17.9	2.7	4.8	8.1	13.8	20.6	29.7	48.1
Agricultural area... (%)									
... own farmed	95.8	68.0	91.9	86.3	79.8	75.1	68.6	64.5	51.1
... in less favoured or mountain area	0	0	0	0	0	0	0	0	0
... organic farmed	5.0	2.8	1.8	2.1	2.8	3.2	3.0	2.6	3.1
... irrigated	:	:	:	:	:	:	:	:	:
... under cover crop protecting soil	0	3.2	0.1	0.6	1.2	2.1	3.0	3.8	6.1

1. Non-productive woodland is excluded.

3. Incl. aromatic, medical and culinary plants

2. Fodder roots are included under Forage plants

4. These areas are included in nurseries (permanent crops)

Symbols : not available 0 less than half of the unit or nil

Economic size (ESU)		<1	>=1	1-<2	2-<4	4-<8	8-<16	16-<40	40-<100	>=100
Total livestock	(1000 LSU)	0.3	1255.2	2.3	16.4	57.8	111.8	312.5	565.6	188.9
of which grazing	(%)	95.4	75.1	97.2	97.4	96.6	91.4	82.3	73.9	48.1
Grazing livestock	(1000 heads)									
Equidae		0.2	28.3	0.6	2.5	5.4	7.4	7.4	4.3	0.7
Bovine animals										
Under 1 year		0	331.5	0.1	1.5	5.2	13.2	83.3	184.3	44.0
From 1 to less than 2 years		0	257.5	0.1	1.3	4.2	11.1	60.0	143.0	37.7
Dairy cows		0	278.1	0	0	0.1	2.9	74.0	167.2	34.0
Other cows		0	51.6	0	0.2	1.3	6.4	18.4	19.0	6.3
Other bovine animals 2 years and older		0	38.2	0.1	0.3	0.9	1.9	9.7	20.6	4.7
Sheep		1.1	2479.9	15.2	119.7	444.6	732.3	761.7	374.2	32.2
Goats		0	72.4	0.1	0.5	1.2	3.7	29.2	36.5	1.3
Granivores										
Pigs	(1000 heads)									
Piglets < 20 kg		0	267.8	0	0.1	0.4	2.8	28.2	151.7	84.6
Breeding sows		0	94.7	0	0	0.2	0.6	8.0	47.8	38.1
Other pigs		0	428.2	0.1	0.6	2.9	13.4	85.2	236.0	90.0
Poultry	(million heads)	0	12.9	0	0	0.1	0.4	2.2	5.0	5.3
Broilers		0	8.1	0	0	0	0.1	1.0	3.4	3.6
Laying hens		0	4.5	0	0	0	0.3	1.1	1.4	1.7
Other poultry		0	0.4	0	0	0	0	0.1	0.2	0
Rabbits, breeding females	(1000 heads)	0	2.3	0.1	0.3	0.5	0.5	0.5	0.3	0.1
Beehives	(1000)	:	:	:	:	:	:	:	:	:
Total livestock per holding with...	(LSU/holding)									
Livestock		2.0	29.7	2.9	4.9	8.9	15.9	26.0	50.6	134.3
Grazing livestock		2.1	31.3	2.9	5.0	9.1	16.4	27.4	54.8	163.1
Bovine animals (cattle)		47.5	52.3	26.5	31.2	46.2	47.2	34.8	58.3	176.3
Cattle, other than cows		47.5	52.6	27.2	31.7	47.2	48.1	34.9	58.4	177.0
Granivores		47.5	306.0	134.2	207.5	291.9	377.8	294.0	289.0	383.9
Pigs		47.5	351.2	37.4	62.8	117.2	182.4	303.4	622.9	908.0
Average size of herds*	(head/holding)									
Equidae		6.5	4.2	4.2	4.1	4.4	5.1	4.3	3.2	4.4
Dairy cows		:	15.9	:	1.0	2.4	5.0	10.6	18.8	35.9
Other cows		:	9.2	1.0	1.5	2.7	5.3	9.7	12.1	20.3
Sheep		10.7	124.2	23.7	46.6	88.1	157.9	179.7	143.5	145.7
Goats		1.5	54.1	4.7	7.3	7.5	19.0	57.7	98.3	65.9
Breeding sows		1.0	38.9	:	1.4	2.4	5.7	15.2	35.9	99.8
Other pigs > 20 kg		7.2	113.4	8.2	9.4	17.1	50.2	88.1	129.7	191.8
Rabbits, breeding females		7.0	4.0	3.8	4.1	4.0	4.3	3.8	3.4	5.8
Laying hens	(1000/holding)	0	1.5	0	0	0.1	0.5	1.2	2.0	12.9
Broilers	(1000/holding)	0	20.1	0	0	0	2.7	9.7	20.9	45.7
Beehives	(hive/holding)	:	:	:	:	:	:	:	:	:

* number of animals of a given livestock category per holding with this kind of animals

Symbols : not available 0 less than half of the unit or nil

Economic size (ESU)	<1	>=1	1-<4	2-<4	4-<8	8-<16	16-<40	40-<100	>=100
Holdings with another gainful activity than agricultural production:									
(% all holdings)	21.4	25.4	24.9	16.6	19.9	24.2	29.6	28.9	26.9
Tourism	14.3	5.7	8.5	5.3	5.7	5.8	6.5	4.6	4.2
Handicraft	1.8	1.5	6.5	0.9	1.5	1.3	1.8	0.9	0.8
Processing of farm products	0	0.5	0	0.3	0.3	0.3	0.6	0.6	0.6
Wood processing	2.2	6.8	9.1	4.9	6.2	7.1	8.0	6.3	4.7
Aquaculture	:	:	:	:	:	:	:	:	:
Renewable energy production	:	:	:	:	:	:	:	:	:
Contractual work	0	15.5	8.0	5.6	8.2	13.8	19.4	21.8	21.6
Other gainful activities n.a.e	4.9	2.7	1.6	2.8	2.9	3.3	2.6	2.2	2.0

➤ METHODOLOGICAL NOTES

The survey on the structure of agricultural holdings in Norway was carried out in June/July 2003 on sample base; however information on crop production, livestock and farming practices (organic farming) was gained from register on an exhaustive base. Prior to this survey full-scale agricultural census has been conducted last time in 1999. The reference period of the farm structure survey was for crops and livestock (excluding sheep) 31 July 2003, for labour force characteristics the 12 months prior to 1 June 2003, and for sheep and other information (non-agricultural activity, irrigation, etc) 1 June 2003.

The target population was all active farms having at least 0.5 ha UAA or, if less UAA, livestock and/or cultivate horticultural crops exceeding certain thresholds (300 m² greenhouse, 0.2 ha open field vegetables, 0.1 ha orchards, berry-plantations or nurseries, 10 bovines, 25 sheep or 10 goats over 1 year old, 5 breeding pigs and/or 200 other pigs, 1000 laying hens or pullets, 5000 broilers). The majority of the holdings are included in the register of farms applying for subsidies; the 'remaining' 5% holdings have been taken from various other registers (e.g. Farm Register, Business Register, register on slaughtered animals, etc). For the purpose of the FSS 2003 an 18.6% sample was drawn. Stratification was done by 18 counties, 6 UAA size classes and 9 types of farming. Drawing probability of a stratum was proportionate to the share of UAA in the strata. Farms sorted by AA size were drawn systematically in each stratum. Strata having less than 5 holdings were merged with neighbour one. At least 5 holdings were drawn from each stratum; if due to the methods less than 5 were drawn, the stratum was a take-all one.

The data are multi-level checked through comprehensive computerised controls. Item non-response was handled by collection of additional information or imputed manually based on other sources. Because of unit non-response (4.8%) the sample was re-weighted.

For each activity ('enterprise') on a farm (for instance wheat or dairy cow), a **standard gross margin (SGM)** is estimated, based on the area (or the number of heads) and a regional coefficient. The sum of such margins in a farm is its **economic size**, expressed in **European Size Units (ESU)**. 1 ESU is equal to 1200 euros.

Due to differences in the coverage of units of less than 1 ESU across Member States, these data are not comparable between countries. That is why the present analysis and graphs focus on the holdings of at least one ESU.

Each farm is classified in the community typology by its economic size and its **type of farming**, depending on the share of each enterprise in its economic size. For instance, a farm where breeding sows account for more than 2/3 of the economic size is classified as *specialist pig rearing* (type 5011). Depending on the level of aggregation, farms are grouped into 8 to 70 types.

Annual working unit (AWU) means the labour force working yearly like a worker employed on full time basis, it is 1845 hours (230.6 working days of 8 working hours per day).

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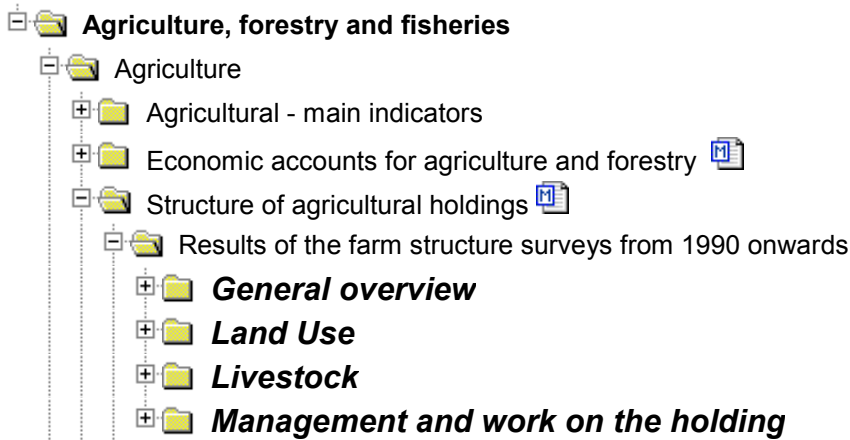
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Website of Statistisk Sentralbyrå Norge: www.ssb.no

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