

Structure of agricultural holdings

Denmark 2003

Statistics in focus

AGRICULTURE AND FISHERIES

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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 10 Member States: Belgium, Denmark, Ireland, Latvia, Luxembourg, Hungary, Malta, Finland, Sweden and the United Kingdom. Results for the other Member States will become available in the course of the next six months. This Statistics in Focus is part of a series of country-specific publications, all following the same structure.

* * *

In Denmark, in May, 2003 about 48 600* agricultural holdings had an economic size of at least one ESU (European size unit), which means 16% decline compared to 2000.**

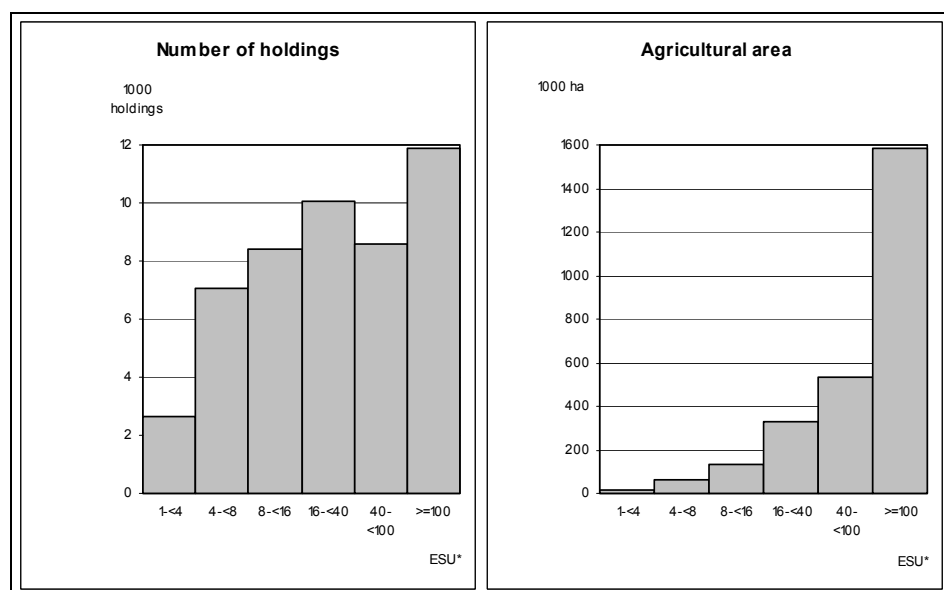
- These holdings employed 60 700 AWUs (annual work units), the equivalent of 60 700 persons working full time;
- they made use of 2.7 million ha of agricultural area, which is on average 54.7 hectare per holding (compared to 45.8 ha in 2000).

Amongst these 48 600 agricultural holdings,

- 40% made use of less than one AWU, while 47% made use of 2 or more AWUs;
- 4% used less than 5 ha, while 16% used more than 100 ha;
- 20% were mixed holdings, while 80% were specialised: for cereals, oil seed and protein crops 38%, field cropping 14%, dairies 13%, pigs and poultry 6%, horticulture 2% (of which almost 2/3 under glass), permanent crops 1%;
- about 5% practised organic farming.

Amongst the 47 900 sole holders

- 9% were women;
- 40% were aged 55 or more;
- 35% had another gainful activity as major occupation.

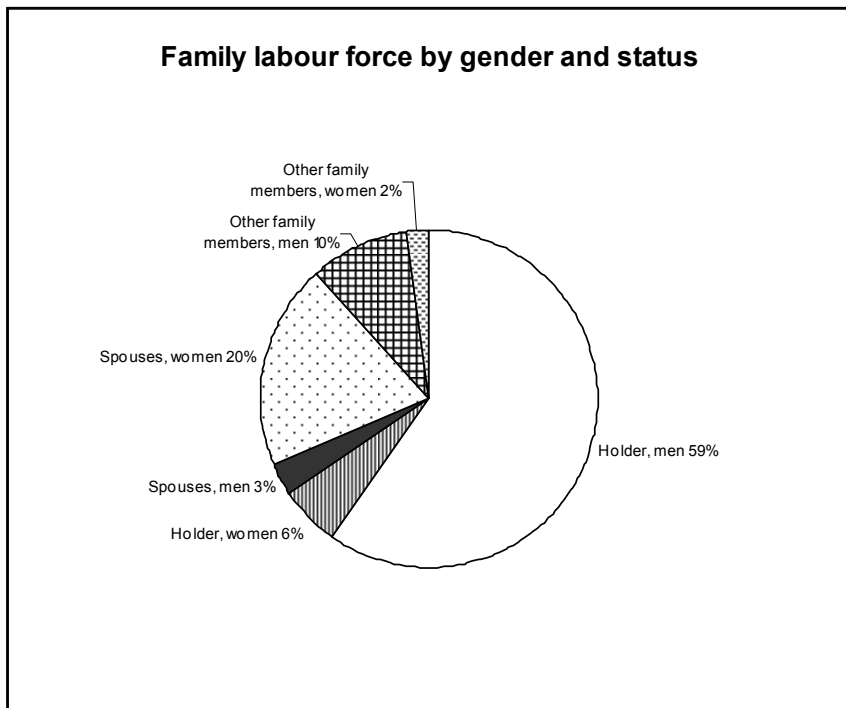
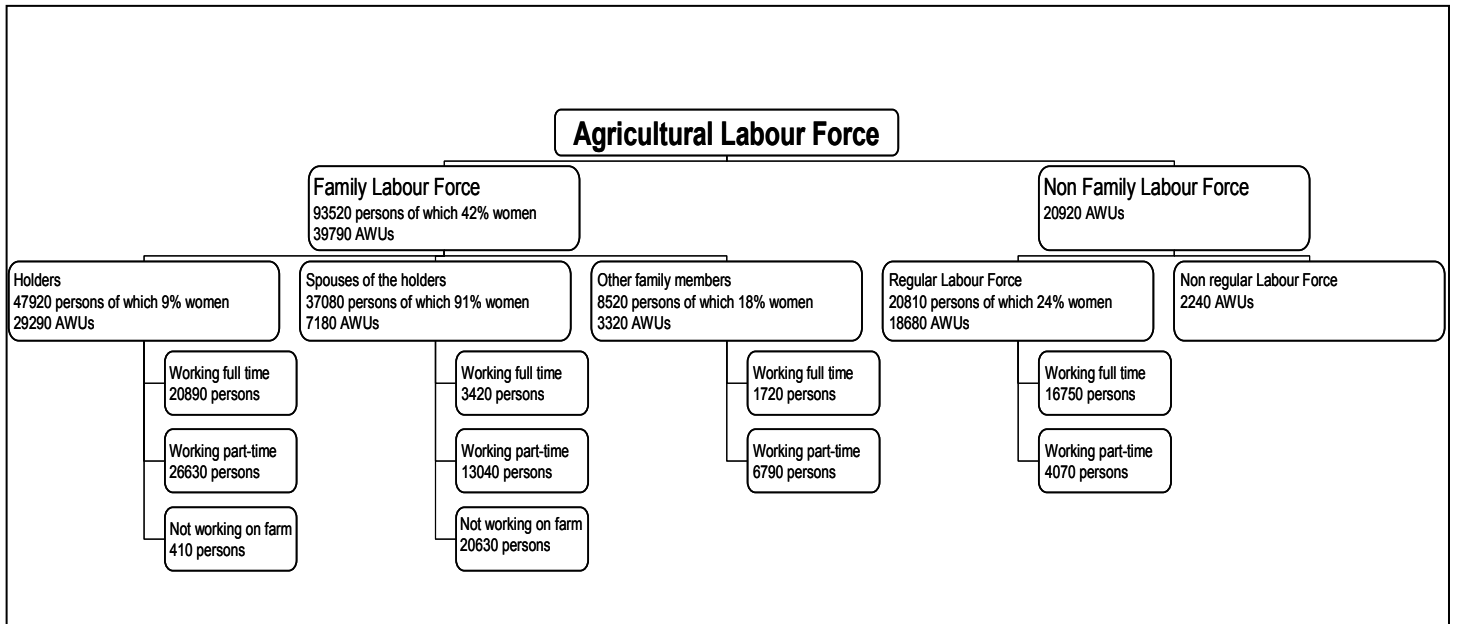


* In Denmark, the farms with less than 5 ha and less than 4 ESU were not surveyed.

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



Denmark, 2003 – Holdings of at least 1 ESU



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

Economic size (ESU)	<1	>=1	1-<4	4-<8	8-<16	16-<40	40-<100	>=100
Total labour force								
1000 annual work units	0	60.7	0.9	2.7	4.1	7.6	11.1	34.3
Family labour force								
1000 persons	0	93.5	4.7	12.7	15.2	18.6	17.0	25.4
1000 annual work units	0	39.8	0.9	2.5	3.8	6.9	9.4	16.4
Non-family labour regularly employed								
1000 persons	0	20.8	0.1	0.3	0.4	0.9	1.7	17.5
1000 annual work units	0	18.7	0.1	0.2	0.2	0.6	1.3	16.3
Non regular non family labour force								
1000 annual work units	0	2.2	0	0	0.1	0.2	0.4	1.5
Holding managers (1000)	0	48.6	2.6	7.1	8.4	10.0	8.6	11.9
- women (%)	0	8.9	20.5	16.1	11.7	8.1	5.0	3.6
- part-time								
- under 50 % (%)	25.0	43.7	89.7	84.7	74.3	49.6	15.3	3.2
- 50 % and over (%)	16.7	11.8	3.9	8.1	13.4	22.5	14.8	3.2
Sole/main holders (1000)	0	47.9	2.6	7.0	8.3	9.9	8.5	11.6
- women (%)	0	9.2	20.6	16.3	12.0	8.3	5.2	3.9
- distribution by age (%)								
- under 35 years	11.1	8.4	6.1	7.4	6.7	6.7	7.1	13.1
- from 35 to 44 years	33.3	25.2	24.7	22.9	22.0	20.0	23.7	34.6
- from 45 to 54 years	0	26.4	26.7	26.2	26.0	24.7	27.3	27.6
- from 55 to 64 years	0	23.6	22.6	21.7	19.5	26.2	31.6	20.1
- 65 years and over	55.6	16.3	19.9	21.9	25.7	22.4	10.3	4.6
- part-time								
- under 50 % (%)	33.3	43.8	89.8	84.6	74.2	49.6	15.1	3.0
- 50 % and over (%)	11.1	11.7	3.8	8.2	13.3	22.6	14.7	3.1
- with another gainful activity ¹ (%)	11.1	41.9	69.9	66.4	62.1	52.4	26.1	8.4
- as main occupation	0	35.1	66.6	63.6	58.0	42.9	14.6	2.2
- as a subsidiary occupation	11.1	6.8	3.3	2.8	4.0	9.5	11.5	6.2
Spouse of sole holder (1000)	0	37.1	1.9	5.1	6.0	7.4	6.7	9.9
- women (%)	100.0	90.7	78.1	83.1	87.1	91.1	94.8	96.2
- distribution by age (%)								
- under 35 years	11.1	12.7	10.8	10.2	10.9	10.4	10.5	18.7
- from 35 to 54 years	33.3	57.5	58.9	57.1	55.9	51.6	57.2	63.0
- 55 years and over	55.6	29.8	30.1	32.6	33.2	38.0	32.3	18.3
- part-time								
- under 50 % (%)	11.1	28.5	34.4	32.8	29.3	30.8	24.6	25.5
- 50 % and over (%)	0	6.7	1.8	2.3	3.5	5.3	9.4	10.9
- with another gainful activity (%)	0	67.6	80.0	75.7	72.8	69.1	64.7	58.7
- as main occupation	0	64.6	79.6	74.9	71.2	66.6	61.0	53.5
- as a subsidiary occupation	0	3.0	0.4	0.7	1.6	2.5	3.8	5.2
Other members of the holder's family working on the holding (1000)	0	8.5	0.1	0.5	0.9	1.3	1.8	3.9
- women (%)	0	17.8	29.2	22.2	19.9	18.8	18.7	15.6
- part-time								
- under 50 % (%)	100.0	71.2	82.3	92.0	90.9	88.5	74.5	56.5
- 50 % and over (%)	0	8.6	16.8	5.4	4.1	6.2	8.6	10.5
- with another gainful activity (%)	0	24.8	34.5	37.4	30.1	31.8	27.1	18.3

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-<4	4-<8	8-<16	16-<40	40-<100	>=100
Holdings								
- total number (1000)	0	48.6	2.6	7.1	8.4	10.0	8.6	11.9
- by legal personality of the holder (%)								
- sole holder	75.0	98.6	99.6	99.3	99.1	98.8	98.8	97.4
- legal person	25.0	1.4	0.4	0.7	0.9	1.2	1.2	2.6
- group holders	0	0	0	0	0	0	0	0
- by employed labour force (%)								
- under 1 AWU	25.0	39.7	84.8	80.4	69.7	44.4	11.0	1.0
- from 1 to less than 2 AWU	8.3	13.3	7.7	11.6	16.9	25.1	14.8	1.9
- from 2 to less than 3 AWU	66.7	26.1	6.3	6.7	11.4	25.5	57.5	30.4
- 3 AWU and over	0	20.9	1.2	1.3	2.0	5.0	16.7	66.7
- by agricultural area (%)								
- under 5 ha	100.0	3.7	7.0	4.7	2.6	2.3	2.8	4.9
- from 5 to less than 20 ha	0	34.7	93.0	95.2	74.7	10.3	3.1	1.0
- from 20 to less than 50 ha	0	26.3	0	0.1	22.7	77.1	29.9	4.6
- from 50 to less than 100 ha	0	19.5	0	0	0	10.3	53.5	32.6
- 100 ha and over	0	15.8	0	0	0	0	10.7	56.9
- by livestock size (%)								
- without livestock	50.0	32.4	34.6	43.6	44.5	41.7	25.2	13.9
- under 10 LSU	8.3	17.8	52.6	36.8	26.7	15.4	6.7	2.5
- from 10 to less than 20 LSU	0	8.4	11.1	15.8	16.6	10.0	2.8	0.4
- from 20 to less than 50 LSU	41.7	9.1	1.7	3.7	11.3	22.8	9.4	0.7
- from 50 to less than 100 LSU	0	7.9	0	0.1	0.8	8.1	30.1	3.0
- 100 LSU and over	0	24.4	0	0	0	1.9	25.8	79.4
- by farm type (%)								
... specialist cereals, oil seed and protein crops	0	38.2	36.2	56.1	61.9	53.2	26.4	7.3
... general field cropping	0	14.2	4.7	15.9	14.1	19.3	16.5	9.5
... specialist horticulture	0	1.9	0	0.3	0.7	1.5	1.9	4.3
... specialist vineyard	0	0	0	0	0	0	0	0
... specialist fruit and citrus fruit	0	0.7	0	0.7	0.8	1.1	0.9	0.3
... specialist olives	0	0	0	0	0	0	0	0
... various permanent crops combined	0	0.5	0	0.2	0.3	0.5	0.8	0.7
... specialist dairy farming	0	13.1	0.1	0.3	0.8	3.0	24.3	32.8
... specialist cattle – rearing and fattening	0	1.3	6.4	4.2	1.2	0.6	0.1	0
... cattle – dairy farming, rearing and fattening combined	0	0.1	0	0	0	0.1	0.3	0.2
... sheep, goats and other grazing livestock	50.0	4.3	45.4	6.9	2.6	1.1	0.6	0.1
... specialist granivores	0	5.6	0.1	0.5	0.6	1.8	4.5	17.3
... mixed cropping	0	2.1	0.1	1.5	2.2	2.9	2.7	1.7
... mixed livestock, mainly grazing livestock	0	0.7	0.2	0.4	0.1	0.4	0.8	1.5
... mixed livestock, mainly granivores	0	0.4	0.3	0.2	0.2	0.1	0.4	1.1
... field crops – grazing livestock combined	0	7.8	6.2	11.9	12.0	8.7	5.5	3.6
... various crops and livestock combined	0	9.1	0.4	0.9	2.3	5.8	14.7	19.5
- by farming methods (%)								
- organic farming	0	5.3	2.7	5.5	5.2	6.2	5.2	5.3
- irrigating	0	12.4	1.6	2.6	7.1	9.4	16.3	24.0
- with crops under glass	0	1.8	0	0.1	0.3	1.3	2.0	4.3
- % in less favoured or mountain area	0	0	0	0	0	0	0	0

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

Economic size (ESU)	<1	>=1	1-<4	4-<8	8-<16	16-<40	40-<100	>=100
Area (1000 ha)								
• Total area of agricultural holdings	0	2892.5	21.3	71.2	149.5	353.8	579.6	1717.1
• H. Other area	0	234.3	5.3	11.0	13.6	24.4	47.4	132.7
Wooded area	0	144.5	2.6	5.9	7.2	13.2	27.8	87.8
• Agricultural area	0	2658.2	16.0	60.2	136.0	329.4	532.2	1584.3
- D. Arable land	0	2466.7	6.3	48.6	120.5	299.9	487.7	1503.6
Cereals	0	1487.3	5.1	36.6	90.1	208.3	296.4	850.8
<i>Common wheat and spelt</i>	0	663.6	0.5	7.8	27.5	76.3	125.1	426.4
<i>Durum wheat</i>	0	0	0	0	0	0	0	0
<i>Rye</i>	0	32.7	0.2	1.0	2.9	4.9	5.7	18.0
<i>Barley</i>	0	705.2	3.8	24.5	52.7	113.6	149.0	361.6
<i>Oats</i>	0	49.1	0.5	1.8	3.7	8.0	10.4	24.8
<i>Grain maize</i>	0	0	0	0	0	0	0	0
Dried pulses	0	31.4	0.2	0.6	1.8	5.0	7.8	16.1
Root crops	0	93.6	0	0.3	1.2	6.6	19.5	66.0
<i>Potatoes</i>	0	36.0	0	0.1	0.4	1.6	5.6	28.5
<i>Sugar beet</i>	0	49.6	0	0.2	0.7	4.4	10.8	33.4
<i>Fodder root</i>	0	8.0	0	0	0.1	0.6	3.1	4.1
Industrial crops	0	106.5	0.3	1.2	4.2	12.4	21.5	67.0
<i>Tobacco</i>	0	0	0	0	0	0	0	0
<i>Hops</i>	0	0	0	0	0	0	0	0
<i>Cotton</i>	0	0	0	0	0	0	0	0
<i>Rape and turnip</i>	0	106.3	0.3	1.2	4.2	12.3	21.4	66.9
<i>Sunflower</i>	0	0	0	0	0	0	0	0
<i>Soya</i>	0	0	0	0	0	0	0	0
Fresh vegetables, melons, strawberry	0	10.7	0	0	0.1	0.7	1.9	8.0
<i>outside</i>	0	10.6	0	0	0.1	0.7	1.9	7.9
<i>under glass</i>	0	0.1	0	0	0	0	0	0.1
Flower and ornamental plants	0	0.5	0	0	0	0	0	0.5
<i>outside</i>	0	0.2	0	0	0	0	0	0.1
<i>under glass</i>	0	0.4	0	0	0	0	0	0.3
Fodder plants	0	444.3	0.6	8.9	17.0	34.1	84.1	299.7
Fallow land	0	202.8	0.2	0.9	5.2	26.5	40.5	129.5
- E. Kitchen garden	0	0	0	0	0	0	0	0
- F. Permanent pasture and meadows	0	181.4	9.7	11.5	15.0	28.4	42.1	74.7
- G. Permanent crops	0	10.2	0	0.1	0.4	1.2	2.4	6.1
Fruit and berry plantation	0	7.5	0	0.1	0.3	1.1	2.2	3.8
Citrus plantation	0	0	0	0	0	0	0	0
Olive trees	0	0	0	0	0	0	0	0
Vineyard	0	0	0	0	0	0	0	0
Ratios								
Agricultural area per holding (ha)	1.1	54.7	6.1	8.5	16.2	32.8	62.1	133.2
Agricultural area... (%)								
... own farmed	100.0	71.7	94.2	90.4	85.4	81.7	73.2	67.0
... in less favoured or mountain area	0	0	0	0	0	0	0	0
... organic farmed	0	5.6	2.8	5.5	4.9	5.9	5.6	5.7
... irrigated	0	7.6	1.1	1.8	4.1	4.9	6.6	9.0
... under cover crop protecting soil	0	4.5	2.0	6.0	8.9	7.0	4.6	3.6

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

Economic size (ESU)		<1	>=1	1-<4	4-<8	8-<16	16-<40	40-<100	>=100
Total livestock	(1000 LSU⁺)	0.1	4541.1	11.2	34.3	62.0	177.5	609.6	3646.5
of which grazing	(%)	100.0	28.6	97.0	91.0	81.7	56.0	41.5	23.4
Grazing livestock	(1000 heads)								
Equidae		0.2	42.6	6.9	9.2	8.0	9.6	4.5	4.4
Bovine animals									
Under 1 year		0	545.9	2.4	13.0	26.4	52.4	120.7	331.0
From 1 to less than 2 years		0	337.4	1.2	7.1	13.5	30.6	70.6	214.4
Dairy cows		0	596.0	0	0.1	0.7	7.4	104.3	483.5
Other cows		0	112.1	2.1	11.7	20.2	33.9	24.6	19.7
Other bovine animals 2 years and older		0	132.9	0.8	2.9	5.6	13.8	30.4	79.5
Sheep		0	143.7	11.7	17.0	26.5	31.7	27.7	29.1
Goats		0	0	0	0	0	0	0	0
Granivores									
Pigs	(1000 heads)								
Piglets < 20 kg		0	4018.7	0.2	1.8	7.7	44.4	197.6	3766.9
Breeding sows		0	1402.5	0.1	0.5	2.4	10.9	59.9	1328.7
Other pigs		0	7527.8	0.7	7.7	30.9	221.1	1004.0	6263.4
Poultry	(million heads)	0	17.8	0	0	0	0.5	2.0	15.3
Broilers		0	12.2	0	0	0	0.2	1.2	10.8
Laying hens		0	4.9	0	0	0	0.2	0.8	3.8
Other poultry		0	0.7	0	0	0	0	0	0.6
Rabbits, breeding females	(1000 heads)	0	0	0	0	0	0	0	0
Beehives	(1000)	0	0	0	0	0	0	0	0
Total livestock per holding with...	(LSU/holding)								
Livestock		20.7	138.2	6.5	8.6	13.3	30.3	95.1	356.2
Grazing livestock		20.7	84.5	6.7	9.1	13.6	26.4	75.2	243.8
Bovine animals (cattle)		:	91.2	8.7	11.0	15.9	29.7	76.6	225.7
Cattle, other than cows		:	91.5	8.7	11.1	16.0	29.8	76.6	225.4
Granivores		:	242.4	5.4	7.1	13.4	41.5	132.5	506.3
Pigs		:	293.5	7.0	10.3	19.5	48.1	140.0	514.4
Average size of herds*	(head/holding)								
Equidae		25.8	5.7	6.4	6.1	6.0	7.0	4.9	3.5
Dairy cows		:	75.0	2.0	2.6	5.1	12.8	40.6	104.4
Other cows		:	10.7	4.3	5.8	8.0	12.4	17.7	14.7
Sheep		:	49.0	34.0	26.6	40.5	59.4	82.5	68.1
Goats		:	:	:	:	:	:	:	:
Breeding sows		:	230.9	2.1	2.6	6.1	13.3	59.0	367.3
Other pigs > 20 kg		:	690.9	13.8	21.9	43.1	124.4	385.3	1160.5
Rabbits, breeding females		:	:	:	:	:	:	:	:
Laying hens	(1000/holding)	:	1.3	0	0	0	0.3	1.4	8.1
Broilers	(1000/holding)	:	35.5	0.1	0	0	5.8	24.3	77.5
Beehives	(hive/holding)	:	:	:	:	:	:	:	:

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

+ LSU : Livestock Unit

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

Economic size (ESU)	<1	>=1	1-<4	4-<8	8-<16	16-<40	40-<100	>=100
Holdings with another gainful activity than agricultural production:								
(% all holdings)	58.3	14.3	9.3	10.2	13.0	13.9	17.0	17.2
Tourism	0	0.7	0.5	0.3	0.4	0.8	0.9	0.8
Handicraft	8.3	1.5	0.8	2.9	2.3	1.6	1.0	0.6
Processing of farm products	0	0.4	0	0.1	0.3	0.4	0.4	0.5
Wood processing	0	0	0	0	0	0	0	0
Aquaculture	0	0	0	0	0	0	0	0
Renewable energy production	0	1.8	0	0.4	0.7	1.1	2.1	4.3
Contractual work	0	6.7	0.6	2.1	4.2	5.7	9.7	11.1
Other gainful activities n.a.e	50.0	5.5	8.4	5.5	6.7	6.4	5.3	3.3

► METHODOLOGICAL NOTES

The survey on the structure of agricultural holdings in Denmark was carried out in May 2003 on a sample base. Prior full-scale agricultural census was conducted in 1999. The reference time of the FSS 2003 was the first Friday of May 2003.

The target population was all the farms included in the farm register, which is updated on an annual basis. The sample is stratified by economic size of the farms (using SGM at 1995 prices; 8 groups), by regions (12 units) and by type of farming (11 categories significant in Denmark). In practice 900 strata are used (from the 1056 possible). Drawing the sample frame optimal allocation is applied: the higher the standard deviation of SGM is in a given stratum the higher is the share of the selected holdings; except for horticulture (2.1, 3.2 and 601 types) where all holdings are selected due to their speciality and number. In stratum 'new farms' the selection ratio is 100%, as well. In each stratum farms are selected randomly.

The data are multi-level checked; the non-response was smaller than half percent. For strata with non-response the extrapolation factor is increased proportionately. Missing or incorrect data are handled following telephone contact with the farmers.

For each activity ('enterprise') on a farm (for instance wheat, dairy cow or vineyard), 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 1800 hours (225 working days of 8 working hours per day).

► REFERENCE PUBLICATIONS

Newsletter of FSS, March 2004, Danmarks Statistik.

Statistical report on farm structure, livestock and land use; 2004, Danmarks Statistik.

Landbrug (Statistik om landbrug, gartneri og skovbrug), september 2004, Danmarks Statistik.

Website of the Statistics Denmark: www.dst.dk

Table bank for data: www.statbank.dk

Further information:

➤ **Databases**

[EUROSTAT website/Agriculture, forestry and fisheries/Agriculture/Structure of agricultural holdings](http://europa.eu.int/comm/eurostat/Agri/Structure_of_agricultural_holdings)

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