

# Structure of agricultural holdings

## Portugal 2003

### Statistics in focus

#### AGRICULTURE AND FISHERIES

38/2005

#### 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. This Statistics in Focus is part of a series of country-specific publications on these results, all following the same structure.

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**In Portugal, in winter 2003/2004, about 261 600 agricultural holdings had an economic size of at least 1 ESU (European Size Unit)\*, which means 17% decline compared to 1999.**

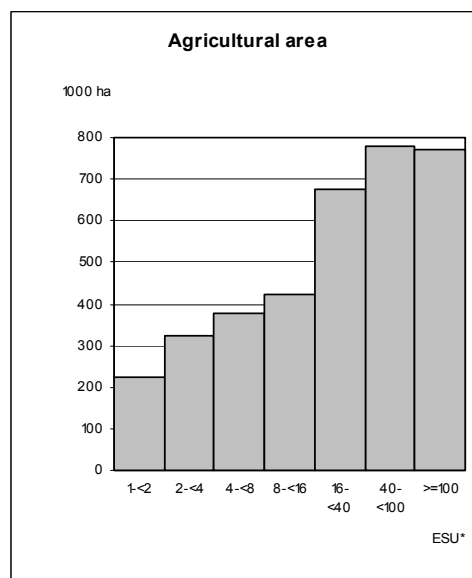
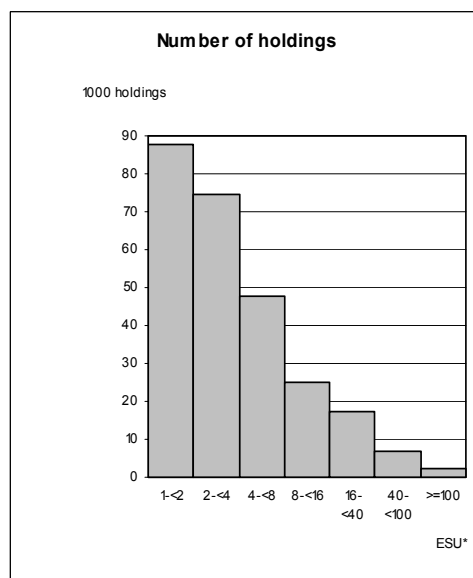
- These holdings employed 383 200 AWUs (annual work units), the equivalent of 383 200 persons working full time;
- they made use of 3.6 million ha of agricultural area, which is on average 13.6 hectare per holding (compared to 11.9 in 1999).

Amongst these 261 600 agricultural holdings

- 34% made use of less than one AWU, while 21% made use of 2 or more AWUs;
- 69% used less than 5 ha, while 2% used 100 ha or more;
- 39% were mixed holdings, while 61% were specialised: for vineyards 13%, field cropping 10%, various permanent crops combined 8%, fruit and citrus fruit 7%, dairies 5%, sheep, goats and other grazing livestock 5%, horticulture 4% (of which 13% under glass), cattle fattening and rearing 3%, olives 3%, cereals, oil seed and protein crops 2% and pigs and poultry 2%;
- about 0.3% practised organic farming.

Amongst the 255 800 sole holders

- 23% were women;
- 68% were aged 55 or more, and only 3% younger than 35 years;
- 24% had another gainful activity as major occupation.

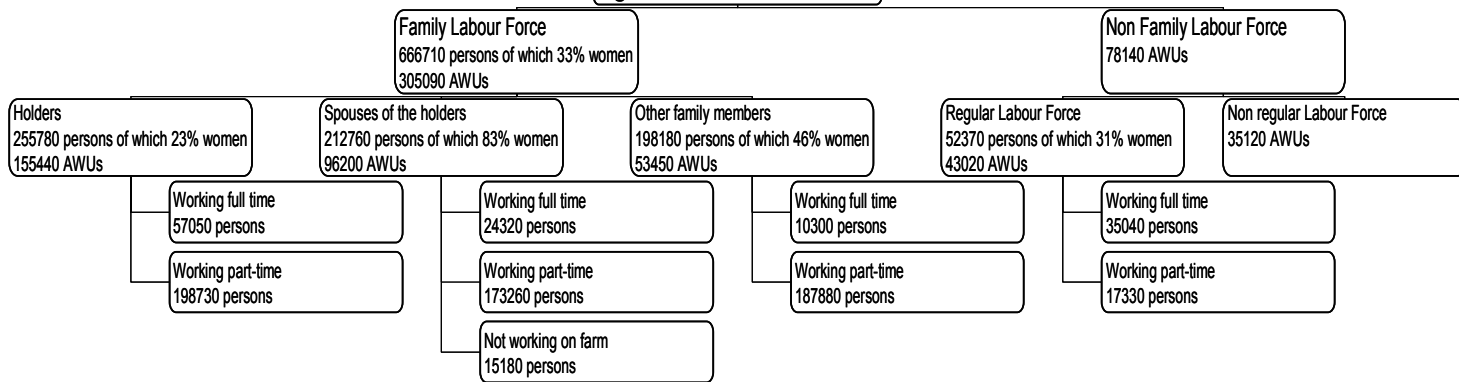


\* ESU measures the economic size of the holdings (see methodological notes).

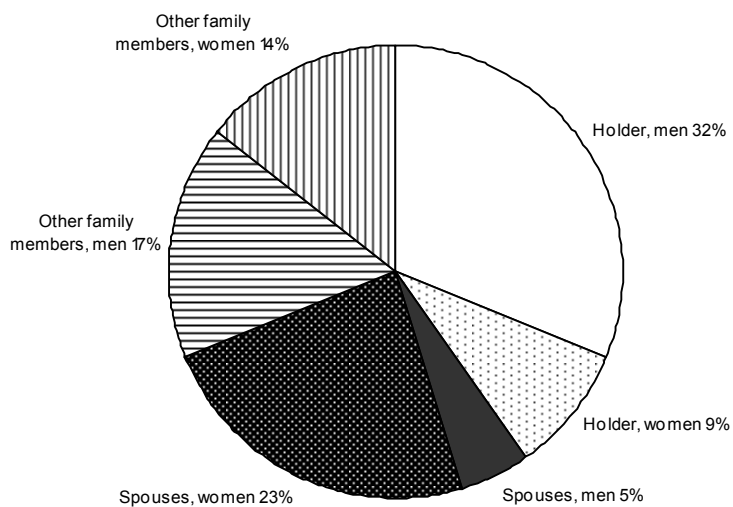


# Portugal 2003 – Holdings of at least 1 ESU

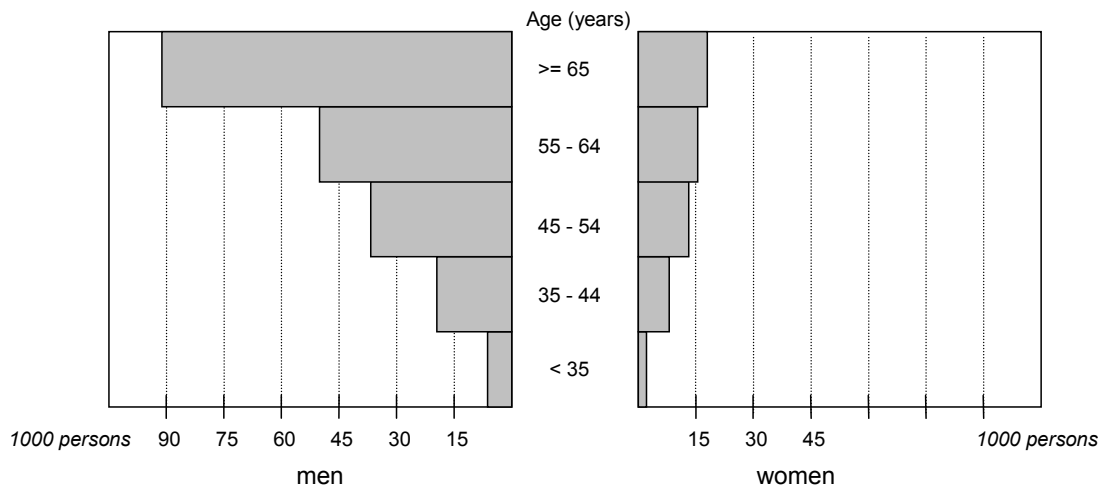
## Agricultural Labour Force



## 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
<b>Total labour force</b>									
1000 annual work units	71.9	383.2	94.6	92.7	68.3	42.9	37.8	24.3	22.7
<b>Family labour force</b>									
1000 persons	213.0	666.7	216.4	195.3	125.4	68.1	44.0	14.2	3.4
1000 annual work units	69.0	305.1	89.9	86.3	60.5	34.2	24.0	8.2	1.9
<b>Non-family labour regularly employed</b>									
1000 persons	2.2	52.4	2.8	3.4	4.0	4.9	8.8	12.1	16.3
1000 annual work units	0.9	43.0	1.2	1.8	2.5	3.7	7.2	11.0	15.7
<b>Non regular non family labour force</b>									
1000 annual work units	2.0	35.1	3.5	4.6	5.2	5.0	6.6	5.1	5.1
<b>Holding managers (1000)</b>	<b>97.7</b>	<b>261.6</b>	<b>87.8</b>	<b>74.7</b>	<b>47.7</b>	<b>25.2</b>	<b>17.2</b>	<b>6.6</b>	<b>2.5</b>
- women (%)	26.2	21.9	24.7	24.1	20.9	16.6	15.1	9.5	9.4
- part-time - under 50 % (%)	68.7	39.9	49.5	42.4	35.0	28.7	21.0	19.4	20.4
- 50 % and over (%)	24.4	36.9	35.6	39.8	39.8	37.3	29.9	23.9	26.0
<b>Sole/main holders (1000)</b>	<b>97.0</b>	<b>255.8</b>	<b>87.5</b>	<b>74.2</b>	<b>46.9</b>	<b>24.5</b>	<b>16.1</b>	<b>5.2</b>	<b>1.3</b>
- women (%)	26.4	22.6	24.6	24.6	21.4	17.8	16.5	13.3	13.7
- distribution by age (%)									
- under 35 years	1.9	2.9	1.5	1.7	2.8	5.3	10.8	11.0	9.5
- from 35 to 44 years	6.8	10.1	7.6	8.3	10.1	13.8	21.0	26.2	18.0
- from 45 to 54 years	15.4	18.8	16.1	18.1	19.2	23.8	25.2	25.2	28.6
- from 55 to 64 years	20.1	25.2	24.5	25.9	28.1	24.1	21.7	18.3	19.2
- 65 years and over	55.7	42.9	50.4	46.1	39.9	33.0	21.3	19.3	24.7
- part-time - under 50 % (%)	69.3	41.1	50.3	43.3	35.9	29.1	22.6	19.3	19.1
- 50 % and over (%)	23.9	36.6	35.1	39.3	39.6	37.3	28.4	22.7	25.5
- with another gainful activity <sup>1</sup> (%)	34.1	26.8	29.3	29.0	24.7	24.2	18.0	14.9	17.3
- as main occupation	32.8	24.4	27.8	26.7	21.8	20.3	13.8	10.5	10.9
- as a subsidiary occupation	1.3	2.5	1.5	2.2	2.9	3.9	4.2	4.4	6.3
<b>Spouse of sole holder (1000)</b>	<b>72.2</b>	<b>212.8</b>	<b>71.7</b>	<b>61.5</b>	<b>39.5</b>	<b>20.9</b>	<b>13.8</b>	<b>4.3</b>	<b>1.1</b>
- women (%)	85.0	83.3	82.2	82.0	84.0	86.0	86.1	89.5	90.1
- distribution by age (%)									
- under 35 years	3.6	5.2	3.3	4.1	4.5	7.4	14.2	17.1	11.8
- from 35 to 54 years	31.1	37.9	32.7	35.1	40.0	46.1	52.4	53.6	51.5
- 55 years and over	65.3	56.9	64.0	60.8	55.5	46.5	33.3	29.3	36.6
- part-time - under 50 % (%)	67.4	51.6	56.5	52.4	48.7	44.6	43.8	45.0	39.7
- 50 % and over (%)	17.9	29.9	28.6	31.7	31.1	32.6	25.2	18.6	17.3
- with another gainful activity (%)	26.7	23.6	24.4	23.2	21.9	23.5	25.2	27.2	27.9
- as main occupation	26.3	22.6	23.8	22.3	20.6	22.0	24.0	26.3	26.4
- as a subsidiary occupation	0.5	1.0	0.6	0.9	1.4	1.6	1.3	0.9	1.4
<b>Other members of the holder's family working on the holding (1000)</b>	<b>43.7</b>	<b>198.2</b>	<b>57.2</b>	<b>59.6</b>	<b>39.1</b>	<b>22.7</b>	<b>14.1</b>	<b>4.6</b>	<b>0.9</b>
- women (%)	45.9	46.0	47.2	46.8	45.8	44.8	42.3	40.4	38.7
- part-time - under 50 % (%)	92.2	84.7	89.2	88.5	82.4	80.3	73.1	61.2	64.9
- 50 % and over (%)	7.0	10.1	8.3	7.9	12.4	12.8	13.8	15.1	13.9
- with another gainful activity (%)	49.0	44.5	51.0	47.5	44.1	37.1	28.8	20.4	21.2

<sup>1</sup> 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
<b>Holdings</b>									
- total number (1000)	97.7	261.6	87.8	74.7	47.7	25.2	17.2	6.6	2.5
- by legal personality of the holder (%)									
- sole holder	99.3	97.8	99.6	99.4	98.4	97.4	93.6	79.5	53.8
- legal person	0.7	2.2	0.4	0.6	1.6	2.6	6.4	20.5	46.2
- group holders	0	0	0	0	0	0	0	0	0
- by employed labour force (%)									
- under 1 AWU	69.6	33.9	46.1	37.4	28.4	18.7	10.1	3.9	2.5
- from 1 to less than 2 AWU	26.5	44.8	43.3	47.6	48.2	49.2	39.8	18.7	5.8
- from 2 to less than 3 AWU	3.6	15.8	9.8	13.5	19.6	24.0	30.0	28.0	10.7
- 3 AWU and over	0.3	5.5	0.8	1.5	3.9	8.1	20.1	49.4	80.9
- by agricultural area (%)									
- under 5 ha	96.2	69.3	91.2	77.1	63.2	40.2	15.2	8.5	12.0
- from 5 to less than 20 ha	3.4	22.1	8.2	20.7	29.2	40.7	51.7	27.4	12.1
- from 20 to less than 50 ha	0.4	4.9	0.4	1.7	6.0	12.5	16.1	29.5	13.2
- from 50 to less than 100 ha	0	1.6	0.2	0.4	1.0	3.7	7.2	8.6	15.9
- 100 ha and over	0	2.2	0	0.1	0.5	2.8	9.8	26.0	46.9
- by livestock size (%)									
- without livestock	36.2	20.6	19.0	18.5	22.0	22.4	27.3	25.5	29.5
- under 10 LSU <sup>+</sup>	63.8	68.1	80.9	79.7	66.3	43.2	22.7	13.2	12.2
- from 10 to less than 20 LSU	0	4.5	0.1	1.7	9.1	18.4	7.3	2.1	1.5
- from 20 to less than 50 LSU	0	3.9	0	0.1	2.3	13.4	29.3	7.4	3.0
- from 50 to less than 100 LSU	0	1.7	0	0	0.2	2.3	9.9	29.2	5.9
- 100 LSU and over	0	1.3	0	0	0	0.3	3.4	22.7	47.7
- by farm type (%)									
... specialist cereals, oil seed and protein crops	1.4	2.3	1.8	1.9	2.3	2.9	3.9	6.2	6.5
... general field cropping	6.5	10.0	9.9	11.0	11.6	7.5	7.0	6.1	10.2
... specialist horticulture	0.8	4.0	1.6	3.7	5.1	6.9	8.7	6.6	7.4
... specialist vineyard	12.5	12.9	11.3	12.0	15.9	16.2	12.9	11.5	12.8
... specialist fruit and citrus fruit	7.3	6.5	5.6	6.0	8.0	8.5	7.3	5.8	2.3
... specialist olives	15.5	2.9	4.1	2.7	2.1	2.3	1.9	1.1	0.7
... various permanent crops combined	8.3	7.7	8.3	8.4	8.1	6.3	4.7	3.5	8.5
... specialist dairy farming	0	5.4	1.1	2.4	4.9	10.9	24.8	27.5	8.7
... specialist cattle – rearing and fattening	1.3	3.0	1.5	2.4	3.4	5.1	6.3	8.8	6.1
... cattle – dairy farming, rearing and fattening combined	0	0.6	0.2	0.5	0.8	1.2	0.8	0.8	0.8
... sheep, goats and other grazing livestock	5.6	4.5	3.3	4.4	5.5	8.1	4.1	2.9	2.1
... specialist granivores	2.4	1.5	0.6	0.6	1.6	3.2	4.1	5.8	13.6
... mixed cropping	16.1	23.5	31.1	27.8	18.5	11.6	6.4	4.3	7.9
... mixed livestock, mainly grazing livestock	4.0	4.8	5.4	6.1	4.3	2.8	1.6	1.5	2.4
... mixed livestock, mainly granivores	3.1	1.3	2.0	1.3	0.6	1.0	0.4	0.6	1.6
... field crops – grazing livestock combined	3.0	3.9	4.4	4.7	3.1	2.4	2.5	4.5	5.8
... various crops and livestock combined	11.8	5.1	7.7	4.1	4.0	3.3	2.6	2.5	2.5
- by farming methods (%)									
- organic farming	0	0.3	0.1	0	0.3	0.6	1.5	2.4	4.1
- irrigating	31.5	49.6	53.9	53.8	47.6	41.3	34.2	34.5	41.6
- with crops under glass	0.1	1.6	0.3	0.6	2.0	4.1	5.5	5.5	7.3
- % in less favoured or mountain area	75.5	71.2	75.7	72.3	69.5	64.7	62.1	60.7	61.7

+ 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
<b>Area (1000 ha)</b>									
• <b>Total area of agricultural holdings</b>	<b>306.5</b>	<b>4582.0</b>	<b>400.1</b>	<b>505.6</b>	<b>508.6</b>	<b>553.9</b>	<b>805.0</b>	<b>903.2</b>	<b>905.5</b>
• <b>H. Other area</b>	<b>151.5</b>	<b>1011.8</b>	<b>177.8</b>	<b>183.7</b>	<b>131.6</b>	<b>131.1</b>	<b>129.2</b>	<b>123.7</b>	<b>134.8</b>
Wooded area	115.5	776.0	138.2	132.2	98.6	102.2	100.9	96.4	107.5
• <b>Agricultural area</b>	<b>155.0</b>	<b>3570.2</b>	<b>222.3</b>	<b>321.9</b>	<b>377.1</b>	<b>422.9</b>	<b>675.8</b>	<b>779.5</b>	<b>770.7</b>
- <b>D. Arable land</b>	<b>54.6</b>	<b>1473.7</b>	<b>94.8</b>	<b>138.4</b>	<b>146.6</b>	<b>167.1</b>	<b>283.8</b>	<b>326.5</b>	<b>316.5</b>
Cereals	10.2	456.6	32.1	47.9	46.9	42.1	70.3	95.7	121.6
<i>Common wheat and spelt</i>	1.0	58.0	3.4	5.7	6.8	7.8	13.5	13.8	6.9
<i>Durum wheat</i>	0.2	119.3	0.7	1.0	2.2	5.1	19.0	35.1	56.0
<i>Rye</i>	1.4	31.2	4.0	7.9	8.9	5.5	3.2	1.2	0.5
<i>Barley</i>	0.5	13.9	0.2	1.0	1.6	2.4	3.3	2.7	2.6
<i>Oats</i>	0.9	56.4	2.3	4.5	4.1	5.7	10.6	15.2	14.1
<i>Grain maize</i>	5.9	130.8	21.0	26.4	20.7	11.5	10.7	13.4	27.2
Dried pulses	1.2	17.8	3.4	3.7	2.0	1.5	2.5	2.2	2.4
Root crops	3.0	41.4	7.9	9.8	8.5	4.9	3.1	2.3	4.9
<i>Potatoes</i>	2.7	32.2	7.1	8.6	7.4	4.1	2.5	1.3	1.1
<i>Sugar beet</i>	0	5.2	0	0	0.1	0.1	0.4	0.9	3.7
<i>Fodder root</i>	0.3	4.0	0.8	1.2	1.0	0.7	0.3	0	0
Industrial crops	:	:	:	:	:	:	:	:	:
<i>Tobacco</i>	:	:	:	:	:	:	:	:	:
<i>Hops</i>	:	:	:	:	:	:	:	:	:
<i>Cotton</i>	:	:	:	:	:	:	:	:	:
<i>Rape and turnip</i>	:	:	:	:	:	:	:	:	:
<i>Sunflower</i>	0.1	38.4	0.1	0.7	1.2	2.3	6.1	11.2	16.8
<i>Soya</i>	:	:	:	:	:	:	:	:	:
Fresh vegetables, melons,	0.3	40.4	1.0	2.6	4.4	5.5	10.0	6.7	10.1
<i>outside</i>	0.3	38.9	1.0	2.5	4.3	5.2	9.6	6.4	9.9
<i>under glass</i>	0	1.5	0	0	0.1	0.3	0.5	0.3	0.3
Flower and ornamental plants	0	1.4	0	0	0	0.1	0.1	0.3	0.9
<i>outside</i>	0	0.9	0	0	0	0	0.1	0.1	0.6
<i>under glass</i>	0	0.6	0	0	0	0	0.1	0.1	0.3
Forage plants	12.8	372.3	22.8	36.7	42.0	55.5	82.2	80.0	53.1
Fallow land	26.9	491.1	27.3	36.1	40.9	54.0	106.8	124.3	101.7
- <b>E. Kitchen garden</b>	<b>5.4</b>	<b>14.6</b>	<b>5.1</b>	<b>4.4</b>	<b>2.5</b>	<b>1.3</b>	<b>0.8</b>	<b>0.3</b>	<b>0.1</b>
- <b>F. Permanent pasture and meadows</b>	<b>39.7</b>	<b>1454.6</b>	<b>48.9</b>	<b>79.1</b>	<b>119.7</b>	<b>160.6</b>	<b>290.8</b>	<b>379.9</b>	<b>375.7</b>
- <b>G. Permanent crops</b>	<b>55.3</b>	<b>627.3</b>	<b>73.4</b>	<b>100.0</b>	<b>108.3</b>	<b>93.8</b>	<b>100.4</b>	<b>72.8</b>	<b>78.5</b>
Fruit and berry plantation	5.1	116.9	11.0	19.5	26.6	22.6	21.2	10.1	6.0
Citrus plantation	0.7	20.4	1.4	2.1	3.5	3.4	3.9	4.3	1.8
Olive trees	38.3	285.8	38.5	46.1	44.1	39.3	45.0	34.8	38.0
Vineyard	11.3	201.9	22.6	32.0	33.9	28.4	30.2	23.3	31.4
<b>Ratios</b>									
<b>Agricultural area per holding (ha)</b>	1.6	13.6	2.5	4.3	7.9	16.8	39.3	118.1	311.8
<b>Agricultural area... (%)</b>									
... own farmed	89.9	69.8	88.2	83.5	78.5	68.1	59.9	63.3	70.9
... in less favoured or mountain area	81.0	87.9	84.6	83.7	85.3	86.7	88.7	91.5	88.1
... organic farmed	0.1	1.9	0.1	0	0.5	1.0	2.3	3.3	2.8
... irrigated	5.7	6.7	11.7	10.1	7.9	5.8	4.9	4.8	7.2
... under cover crop protecting soil	0	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-<2	2-<4	4-<8	8-<16	16-<40	40-<100	>=100
<b>Total livestock</b>	<b>(1000 LSU)</b>	<b>47.3</b>	<b>2307.4</b>	<b>98.8</b>	<b>151.1</b>	<b>183.3</b>	<b>241.7</b>	<b>397.6</b>	<b>455.3</b>	<b>779.6</b>
of which grazing	(%)	59.1	59.0	65.4	72.9	73.8	70.2	73.6	69.6	34.8
<b>Grazing livestock</b>	<b>(1000 heads)</b>									
<b>Equidae</b>		<b>9.1</b>	<b>71.6</b>	<b>14.5</b>	<b>18.2</b>	<b>14.1</b>	<b>10.6</b>	<b>6.0</b>	<b>4.0</b>	<b>4.3</b>
<b>Bovine animals</b>										
Under 1 year		3.4	390.2	16.8	32.9	37.4	43.4	72.6	87.4	99.7
From 1 to less than 2 years		1.6	215.9	6.2	13.7	20.7	22.3	40.8	52.0	60.1
Dairy cows		0	335.3	3.1	11.6	20.4	37.3	110.3	107.1	45.5
Other cows		4.3	348.7	16.1	24.3	25.6	29.2	56.3	90.3	107.0
Other bovine animals 2 years and older		1.0	97.9	2.6	6.6	9.0	10.0	19.3	24.1	26.2
<b>Sheep</b>		<b>93.5</b>	<b>2591.1</b>	<b>176.7</b>	<b>283.0</b>	<b>386.0</b>	<b>492.8</b>	<b>528.4</b>	<b>407.8</b>	<b>316.4</b>
<b>Goats</b>		<b>44.6</b>	<b>397.4</b>	<b>60.2</b>	<b>78.7</b>	<b>74.9</b>	<b>97.7</b>	<b>58.0</b>	<b>18.8</b>	<b>9.1</b>
<b>Granivores</b>										
<b>Pigs</b>	<b>(1000 heads)</b>									
Piglets < 20 kg		9.5	620.7	18.9	33.5	32.3	48.6	71.0	118.7	297.7
Breeding sows		7.3	298.8	15.4	19.8	22.1	24.3	31.6	58.9	126.7
Other pigs		20.4	1160.8	37.9	47.2	43.2	76.8	111.0	172.6	672.1
<b>Poultry</b>	<b>(million heads)</b>	<b>0.6</b>	<b>34.8</b>	<b>1.0</b>	<b>1.1</b>	<b>2.5</b>	<b>4.3</b>	<b>6.0</b>	<b>5.3</b>	<b>14.5</b>
Broilers		0.2	19.0	0.4	0.5	2.1	3.8	4.6	3.2	4.4
Laying hens		0.4	11.2	0.5	0.5	0.3	0.5	1.3	2.0	6.1
Other poultry		0.1	4.6	0.1	0.2	0.1	0.1	0.1	0.1	3.9
<b>Rabbits, breeding females</b>	<b>(1000 heads)</b>	<b>27.8</b>	<b>283.4</b>	<b>52.8</b>	<b>56.6</b>	<b>34.7</b>	<b>18.0</b>	<b>64.8</b>	<b>33.9</b>	<b>22.6</b>
<b>Beehives</b>	<b>(1000)</b>	<b>18.1</b>	<b>210.4</b>	<b>39.0</b>	<b>59.5</b>	<b>55.8</b>	<b>28.3</b>	<b>23.2</b>	<b>3.9</b>	<b>0.7</b>
<b>Total livestock per holding with...</b>	<b>(LSU/holding)</b>									
Livestock		0.8	11.1	1.4	2.5	4.9	12.4	31.8	92.6	447.8
Grazing livestock		1.2	12.1	1.9	3.2	6.3	14.9	34.7	88.1	334.5
Bovine animals (cattle)		1.6	17.1	2.3	3.7	6.9	15.8	36.6	92.4	356.1
Cattle, other than cows		1.6	20.0	2.4	3.9	7.2	16.5	36.9	92.7	356.5
Granivores		0.7	9.8	1.3	2.4	4.7	12.0	30.4	94.9	591.9
Pigs		1.1	12.6	1.7	3.0	6.0	14.1	34.2	105.0	557.6
<b>Average size of herds*</b>	<b>(head/holding)</b>									
Equidae		1.1	1.7	1.2	1.4	1.7	2.4	2.4	3.6	10.7
Dairy cows		:	12.4	1.1	1.7	3.5	8.6	22.4	51.2	148.7
Other cows		1.5	10.9	1.8	2.5	4.2	9.3	26.2	65.8	156.5
Sheep		7.8	51.6	10.6	19.5	44.1	92.4	169.0	294.6	572.1
Goats		4.2	11.5	4.7	7.5	13.0	29.7	33.8	33.1	69.4
Breeding sows		1.4	10.9	1.9	2.6	4.3	7.6	17.7	68.5	247.5
Other pigs > 20 kg		1.6	15.6	1.7	2.0	3.2	9.5	22.7	93.5	1038.8
Rabbits, breeding females		2.1	5.1	2.5	3.1	3.6	4.3	32.0	50.2	327.2
Laying hens	(1000/holding)	0	0.1	0	0	0	0	0.2	0.8	11.8
Broilers	(1000/holding)	0	0.2	0	0	0.1	0.4	0.8	1.6	11.9
Beehives	(hive/holding)	7.4	18.0	10.3	15.7	23.4	28.0	40.4	29.5	15.8

\* 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
<b>Holdings with another gainful activity than agricultural production:</b>									
(% all holdings)	<b>4.8</b>	<b>11.8</b>	<b>10.1</b>	<b>12.5</b>	<b>12.5</b>	<b>13.0</b>	<b>11.5</b>	<b>15.1</b>	<b>16.8</b>
Tourism	0	0.2	0.1	0.2	0.2	0.2	0.5	1.1	2.4
Handicraft	0.1	0.1	0.1	0.1	0.2	0	0.2	0.2	0.3
Processing of farm products	4.5	10.4	9.2	11.3	11.3	11.5	8.6	11.0	9.3
Wood processing	0.1	0.3	0.2	0.3	0.4	0.4	0.4	0.5	1.1
Aquaculture	0	0	0	0	0	0	0.1	0	0.1
Renewable energy production	0	0	0	0	0	0	0	0.1	0.1
Contractual work	0.1	0.7	0.4	0.5	0.6	1.0	1.5	2.3	3.0
Other gainful activities n.a.e	0	0.4	0.3	0.2	0.3	0.4	0.9	1.3	3.2

## ► METHODOLOGICAL NOTES

The survey on the structure of agricultural holdings in Portugal was carried out between November 2003 and March 2004 on sample 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 the agricultural year between 1 November 2002 and 31 October 2003. However for livestock the reference day was the day of the interview.

The target population was all the holdings enumerated in the agricultural census 1999 (now included in the updated farm register), that producing for sale over the reference period and above certain thresholds (at least 1 ha UAA or equivalent land area, on the other hand having livestock). The planned sample size (about 40 thousand holdings, 9.6%) has been allocated among the nine agricultural regions taking into account the number of holdings existing. Stratification has been done by taking into account the significance of the variables and their concentration in each region, and the rest of the holdings by UAA. The specially built strata (significant variable with small number of holdings) as well as strata above certain higher thresholds were sampled full scope or with high sampling ratio. For the estimations the target population was modified taking into account the abandoned, ceased or newly establish holdings. The FSS 2003 sample was combined with the sample-panels of the annual livestock and cereals surveys (14 thousand holdings).

The data are multi-level checked. Missing questionnaires (non response) were replaced by previous survey information (in take-all strata) or by substitution of the holdings by a similar one in the concerning stratum. Due to the fact that the sample of the FSS was combined with annual sample panels, figures on livestock and cereals have been overestimated, while other variables were underestimated [except in regions Algarve and Madeira]. In order to eliminate the bias from the sample selection procedure and obtain acceptable results an empiric approach has been carried out: 'reconstructing' the 2003 sampling frame by using complementary register data. It was considered as reasonable approach taking into account the costs and time-factor; however the results are originated as a mixture of register (between 2001 and 2003) and observation data.

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.

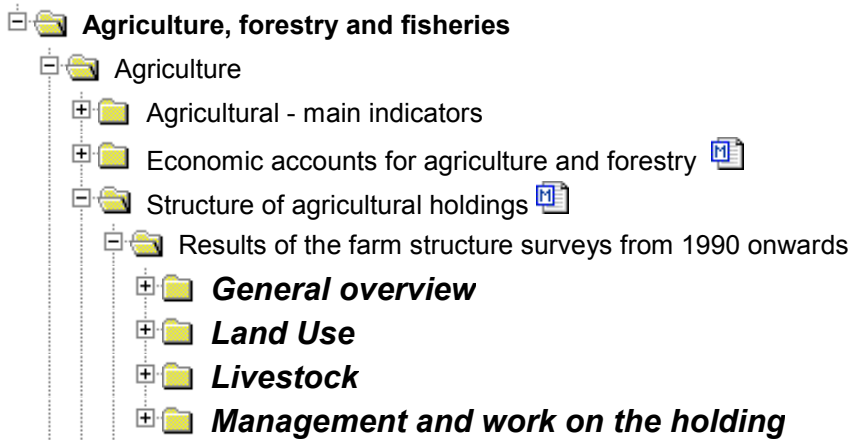
**Annual working unit (AWU)** means the labour force working yearly like a worker employed on full time basis, it is 1920 hours (240 working days of 8 working hours per day).

## ► REFERENCE PUBLICATIONS

Website of the Instituto Nacional de Estatística - Portugal: [www.ine.pt](http://www.ine.pt)

## Further information:

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