

2016

***Luxembourgish
Agriculture
Facts and Figures***



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de l'Agriculture,
de la Viticulture et de la
Protection des consommateurs

Service d'économie rurale



Luxembourgish Agriculture Facts and Figures 2016

(data available on 1st September 2016)

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Foreword

Nowadays, more than ever agricultural holdings have to adapt themselves continuously to the ever changing meteorological conditions and the varying situation of the markets for agricultural products. The political context in which agriculture has to evolve has been defined for the European Union in 2013 through a reform of the Common Agricultural Policy which applies for the period 2014 to 2020. This reform has been put into place for direct income aids and the underlying conditions (greening, cross compliance) in 2015. The law of June 27th, 2016 concerning the sustainable development of rural areas is the framework for a diversity of development measures such as investment aids in agricultural holdings, installation support to young farmers, agro-environmental measures, measures for the development of rural areas.

Being properly informed about the most appropriate productions and orientations is necessary when managing an agricultural holding. The holders of agro-industrial companies (such as food industry and suppliers of the agricultural sector) also have to face strategic choices which will bind them for a longer period.

To answer these important questions when managing an agricultural holding, the farmer needs to know not only the economic and technical key figures of his holding, but also those of the sector in which he is operating, i.e. the agricultural sector.

This is why the division of agricultural statistics, of markets for agricultural products and relations to foreign entities of “Service d’Economie Rurale” (the service of the rural economy), has put together this publication which is treating of the agricultural sector in Luxembourg. The sector is presented through figures covering the structural aspects of agricultural holdings, agricultural production, prices for agricultural products and the economic situation of agricultural holdings. The publication will also be useful in their work for agricultural advisers, members of professional organisations of the agricultural sector, people working in the administration or in agricultural schools and for all interested people in general.

The Minister of Agriculture, Viticulture
and Consumer protection

Fernand ETGEN



1. Natural conditions

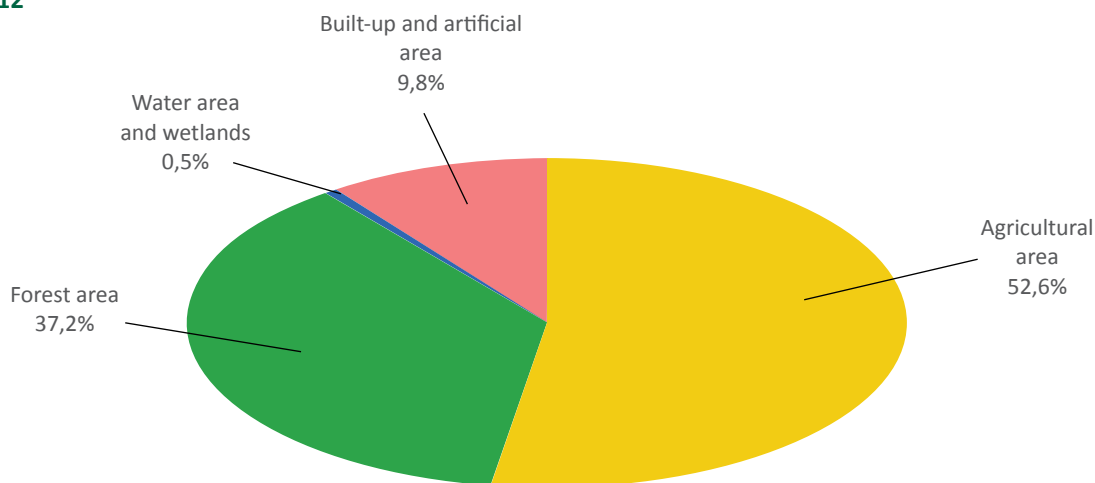
Geographical data

Located between Belgium in the north and west (148 km of borderline), Germany in the east (135 km of borderline) and France in the south (73 km of borderline), Luxembourg has a maximal east-west width of 57 km and a maximal north-south length of 82 km. The total area of Luxembourg is 2.586 km².

The two main regions of Luxembourg are the Oesling in the north and the Gutland in the south. The Oesling is part of the Ardennes or the « Rheinisches Schiefergebirge » and is a large plateau intersected by narrow valleys with steep slopes. It covers 828 km² (32% of the total area). The Gutland has various soils originated mainly by the geological formations of the Lias and Trias. It covers 1.758 km² (68% of the total area).

The altitude ranges from a maximum of 560 m (near Wilwerdange) to 130 m (Wasserbillig). The town of Luxembourg is situated 300 m above sea level.

Land use 2012

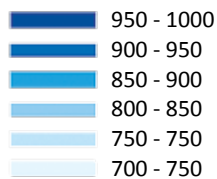


Source: Ministère du Développement durable et des Infrastructures, Administration de l'Environnement, 2014, National inventory of greenhouse gas emissions, table 7-6, page 364, Report downloadable: http://unfccc.int/files/national_reports/annex_i_ghg_inventories/national_inventories_submissions/application/zip/lux-2014-nir-22may.zip
Note: the areas reported in this table are defined and calculated following the rules edited by the Intergovernmental Panel on climate Change (IPCC) in the framework of the reporting to the United Nations Framework Convention on Climate Change (UNFCCC)

Meteorological and geological conditions

Annual precipitations in mm

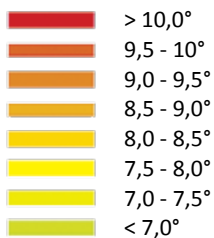
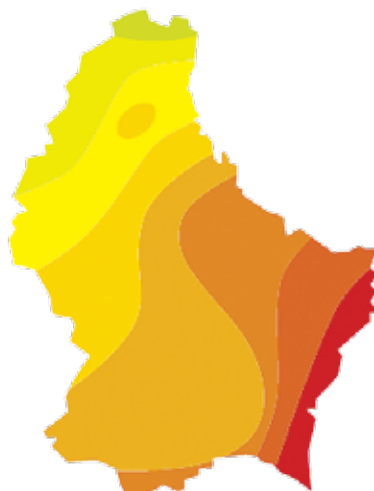
Geographical distribution of the annual precipitation (30 years average) in Luxembourg



Source: ASTA

Average temperature in °C

Geographical distribution of average temperature in Luxembourg



Source: ASTA

Schematic geological map



Source: Ministère des Travaux publics, Service de Géologie

2. Population

| | unit | 1991 ¹ | 2001 ¹ | 2011 ¹ | 2014 ² | 2015 ² | 2016 ² |
|---------------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Total population* | 1.000 pers. | 384,4 | 439,5 | 512,4 | 549,7 | 563,0 | 576,2 |
| of which: | | | | | | | |
| Men | 1.000 pers. | 188,3 | 216,5 | 255,0 | 275,1 | 282,0 | 289,1 |
| Women | 1.000 pers. | 196,1 | 223,0 | 257,4 | 274,6 | 281,0 | 287,1 |
| Luxembourgers | 1.000 pers. | 271,4 | 277,2 | 291,9 | 300,8 | 304,3 | 307,0 |
| Non-Luxembourgers | 1.000 pers. | 113,0 | 162,3 | 220,5 | 248,9 | 258,7 | 269,2 |
| Population by age groups* | | | | | | | |
| Working (age 15-64 years) | (%) | 68,4 | 67,2 | 68,7 | 69,1 | 69,1 | 69,3 |
| Children (age 0-14 years) | (%) | 17,3 | 18,9 | 17,3 | 16,8 | 16,7 | 16,5 |
| Seniors (age 65+) | (%) | 14,3 | 13,9 | 14,0 | 14,1 | 14,2 | 14,2 |

Source: STATEC

* situation on january 1st

¹ general population census

² calculation on the basis of the last general population census and the natural and migration balances

3. Agriculture and food industry

Importance of agriculture in the economy of Luxembourg

| | 2000 | 2005 | 2010 | 2013 | 2014 |
|--|----------|----------|----------|----------|----------|
| Gross value added at basic prices in mio € | | | | | |
| – of agriculture, forestry, and fishing | 143,6 | 106,8 | 100,0 | 122,5 | 130,0 |
| – of the whole economy | 20.828,1 | 26.518,7 | 35.683,0 | 41.736,0 | 43.633,3 |
| Part de l'agriculture dans la VAB au prix de base en % | 0,7 | 0,4 | 0,3 | 0,3 | 0,3 |
| Part of agriculture in g.v.a. at basic prices in % | 4,3 | 4,0 | 3,7 | 3,6 | 3,5 |
| Total labour input of whole economy (thousands of persons) | 264,0 | 307,6 | 359,4 | 386,0 | 395,6 |
| Part of agriculture in total labour input* | 1,6 | 1,3 | 1,0 | 0,9 | 0,9 |
| Gross fixed capital formation in agriculture (mio €) | 73,8 | 96,7 | 129,9 | 162,7 | 159,1 |
| Gross fixed capital formation in whole economy (mio €) | 4.669,8 | 5.999,5 | 7.157,8 | 8.213,3 | 9.092,7 |
| Part of agriculture in GFCF of whole economy (in %) | 1,6 | 1,6 | 1,8 | 2,0 | 1,8 |

Source: STATEC, Service d'Economie Rurale

* as the measure units of labour input are different for agriculture and the whole economy, an exact comparison is not possible

Importance of food industry in the economy of Luxembourg

| | unit | 2000 | 2005 | 2010 | 2013 | 2014 |
|---|-------------|----------|----------|----------|----------|----------|
| Gross value added at basic prices | | | | | | |
| of sector „products from agriculture and food industry“ | mio Euro | 194,3 | 256,9 | 260,8 | 265,1 | 285,5 |
| of the whole economy (FISIM ¹ included) | mio Euro | 20.828,1 | 26.518,7 | 35.683,0 | 41.736,0 | 43.633,3 |
| Part of agriculture and food industry in gross value added of the whole economy | % | 0,9 | 1,0 | 0,7 | 0,6 | 0,7 |
| Employees | | | | | | |
| in agriculture and food industry | 1.000 pers. | 4,4 | 4,6 | 5,0 | 5,3 | 5,3 |
| in the whole economy | 1.000 pers. | 245,7 | 287,2 | 337,3 | 362,2 | 371,2 |
| Part of employees in agriculture and food industry among total employees | % | 1,8 | 1,6 | 1,5 | 1,5 | 1,4 |

Source: STATEC

¹ FISIM = financial intermediation services indirectly measured

4. Farm structures

Number of agricultural holdings

| | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|---|-------|-------|-------|-------|-------|-------|
| Total number of agricultural holdings | 3.803 | 2.728 | 2.201 | 2.077 | 2.042 | 2.022 |
| Number of agricultural holdings by their legal and economic form | | | | | | |
| Family holdings* | 3.768 | 2.656 | 2.061 | 1.918 | 1.898 | 1.880 |
| Group holdings** | 35 | 41 | 87 | 107 | 88 | 86 |
| Holdings assumed by a corporate person | | 31 | 53 | 52 | 56 | 56 |
| Number of family holdings and group holdings by principal/ secondary occupation of the manager | | | | | | |
| Holdings with principal occupation*** | 2.528 | 1.729 | 1.468 | 1.277 | 1.341 | 1.321 |
| Holdings with secondary occupation | 1.275 | 968 | 680 | 748 | 645 | 645 |

Source: Farm Structure Survey (STATEC)

* Family holding: the legal and economic responsibility of the holding is assumed by a natural person who is a sole holder of an independent holding.

** Group holding: association of agricultural holdings with exclusive management of means of production made available by the members of the group holding

*** Holding with principal occupation: Family holding or group holding (since 2003) where the holder works more than 50% of his working time on the agricultural holding and has no other gainful main activity.

Use of agricultural land

| Unit: ha | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|------------------------------------|---------|---------|---------|---------|---------|---------|
| Utilized agricultural area | 126.298 | 127.643 | 131.106 | 131.043 | 131.077 | 131.384 |
| Arable land | 55.891 | 60.927 | 61.951 | 62.527 | 62.606 | 62.798 |
| Permanent grassland | 68.827 | 65.277 | 67.526 | 66.897 | 66.827 | 66.923 |
| Other agricultural land | 1.580 | 1.439 | 1.629 | 1.619 | 1.644 | 1.663 |
| Cereals | 32.980 | 28.639 | 29.713 | 29.072 | 28.399 | 29.288 |
| Wheat and spelt | 8.625 | 10.971 | 14.009 | 14.250 | 12.665 | 14.494 |
| Rye | 557 | 672 | 896 | 829 | 866 | 896 |
| Barley | 15.682 | 10.538 | 8.261 | 7.740 | 8.317 | 7.713 |
| Oats and mixed cereals | 5.723 | 2.379 | 1.348 | 1.421 | 1.522 | 1.381 |
| Grain maize | - | 255 | 375 | 243 | 216 | 141 |
| Triticale | 2.272 | 3.635 | 4.780 | 4.561 | 4.787 | 4.604 |
| Other cereals | 121 | 189 | 44 | 28 | 26 | 59 |
| Dried pulses | 537 | 431 | 336 | 282 | 378 | 588 |
| Potatoes | 826 | 829 | 615 | 593 | 607 | 570 |
| Industrial crops | 1.999 | 3.344 | 4.867 | 5.324 | 4.840 | 5.199 |
| Rapeseed | 1.951 | 3.245 | 4.715 | 4.496 | 4.146 | 3.973 |
| Forage crops | 19.024 | 25.523 | 25.371 | 26.351 | 27.366 | 26.091 |
| Maize (for silage) | 7.473 | 10.799 | 13.435 | 13.498 | 14.251 | 13.648 |
| Temporary grass | - | 14.178 | 11.461 | 12.098 | 12.181 | 10.990 |
| Forage legumes | - | 469 | 447 | 474 | 506 | 918 |
| Forage beets and other root crops | - | 77 | 27 | 75 | 102 | 137 |
| Other crops | 22 | 2 | 717 | 748 | 875 | 784 |
| Fallow ground | 272 | 1.527 | 139 | 157 | 140 | 280 |
| Permanent grassland | 68.827 | 65.277 | 67.526 | 66.897 | 66.827 | 66.923 |
| Horticulture | 19 | 21 | 48 | 75 | 87 | 102 |
| Permanent crops | 1.440 | 1.365 | 1.503 | 1.532 | 1.547 | 1.551 |
| Area under wine growing | 1.326 | 1.249 | 1.266 | 1.294 | 1.294 | 1.296 |
| Fruit orchards | 57 | 53 | 133 | 144 | 155 | 163 |
| Tree nurseries | 49 | 55 | 86 | 72 | 71 | 71 |
| Other permanent crops ¹ | 8 | 8 | 18 | 22 | 27 | 21 |

¹ Including Christmas trees from 2010 onwards

Source: Farm Structure Survey (STATEC)

4. Farm structures

Number of farms per size class

| | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|--|-------|-------|-------|-------|-------|-------|
| Total number of farms | 3.803 | 2.728 | 2.201 | 2.077 | 2.042 | 2.022 |
| Average area per farm (ha/farm) | 33,2 | 46,8 | 59,6 | 63,1 | 64,2 | 65,0 |
| Number of farms in size class under 2 ha | 523 | 335 | 220 | 201 | 191 | 185 |
| Number of farms in size class from 2 to 4,9 ha | 465 | 270 | 158 | 136 | 135 | 139 |
| Number of farms in size class from 5 to 9,9 ha | 319 | 245 | 217 | 191 | 190 | 176 |
| Number of farms in size class from 10 to 19,9 ha | 388 | 207 | 171 | 168 | 160 | 164 |
| Number of farms in size class from 20 to 29,9 ha | 307 | 156 | 120 | 115 | 109 | 123 |
| Number of farms in size class from 30 to 49,9 ha | 685 | 346 | 242 | 213 | 209 | 195 |
| Number of farms in size class from 50 to 69,9 ha | | 424 | 257 | 235 | 231 | 223 |
| Number of farms in size class from 70 to 99,9 ha | 1.010 | 449 | 381 | 364 | 356 | 350 |
| Number of farms in size class from 100 ha and more | 106 | 296 | 435 | 454 | 461 | 467 |

Source: Farm Structure Survey (STATEC)

Number of farms by type of farming

| | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|---|-------|-------|-------|-------|-------|-------|
| Total number of farms | 3.803 | 2.728 | 2.201 | 2.077 | 2.042 | 2.022 |
| Specialist field crops | 260 | 188 | 154 | 170 | 173 | 178 |
| Specialist horticulture | 41 | 29 | 27 | 24 | 25 | 28 |
| Specialist permanent crops | 683 | 453 | 363 | 329 | 318 | 310 |
| of which specialist vineyards | - | 436 | 348 | 315 | 298 | 289 |
| Specialist grazing livestock | 2.056 | 1.576 | 1.436 | 1.353 | 1.332 | 1.315 |
| of which specialist dairying | - | 863 | 587 | 528 | 518 | 515 |
| of which specialist cattle - rearing and fattening | - | 299 | 401 | 410 | 351 | 374 |
| of which cattle- dairying, rearing and fattening combined | - | 175 | 187 | 176 | 231 | 166 |
| Specialist granivores | 38 | 41 | 25 | 25 | 25 | 27 |
| Mixed cropping | 66 | 28 | 9 | 12 | 11 | 7 |
| Mixed livestock | 162 | 104 | 51 | 35 | 34 | 30 |
| Mixed crops and livestock | 470 | 289 | 136 | 129 | 124 | 127 |
| Non-classifiable farms | 27 | 20 | 0 | 0 | 0 | 0 |

Source: Farm Structure Survey (STATEC)

The dairy farms by size class in 2015

Size class based on the cow milk deliveries to the dairies (in 1000 kg)

| | 0 - 200 | 200 - 300 | 100 - 400 | 400 - 500 | 500 - 600 | 600 - 1.000 | 1.000 - 1.500 | 1.500 - 2.000 | > 2.000 | Total of dairy cattle holdings |
|---|------------|--------------|--------------|--------------|--------------|----------------|------------------|------------------|---------|-----------------------------------|
| Deliveries to dairies | | | | | | | | | | |
| in 1.000 kg | 14.876 | 30.882 | 49.470 | 40.104 | 40.507 | 85.837 | 33.002 | 13.450 | 24.389 | 332.519 |
| in % | 4,47 | 9,29 | 14,88 | 12,06 | 12,18 | 25,81 | 9,92 | 4,04 | 7,33 | 100 |
| Number of holdings | | | | | | | | | | |
| absolute number | 119 | 123 | 142 | 90 | 74 | 115 | 27 | 8 | 9 | 707 |
| in % | 16,83 | 17,40 | 20,08 | 12,73 | 10,47 | 16,27 | 3,82 | 1,13 | 1,27 | 100 |
| Average per class (1.000 kg/holding) | 125,0 | 251,1 | 348,4 | 445,6 | 547,4 | 746,4 | 1.222,3 | 1.681,2 | 2.709,9 | 470,3 |

Source: SER, holdings with milk production on 31/12/2015

4. Farm structures

Livestock numbers (in heads)

| | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|--------------------------|---------|---------|---------|---------|---------|---------|
| Horses | 1.722 | 3.154 | 4.601 | 4.682 | 4.724 | 4.717 |
| Total cattle | 217.451 | 205.072 | 198.892 | 193.623 | 198.780 | 201.036 |
| Cattle under 1 year | 59.553 | 54.806 | 52.253 | 53.252 | 53.289 | 54.059 |
| Calves for slaughtering | 1.375 | 4.444 | 3.483 | 4.127 | 3.579 | 3.719 |
| Other calves | 58.178 | 50.362 | 48.770 | 49.125 | 49.710 | 50.340 |
| Cattle from 1 to 2 years | 46.961 | 47.017 | 46.780 | 44.526 | 46.241 | 45.817 |
| Male | 12.950 | 16.446 | 16.489 | 14.371 | 15.666 | 14.198 |
| Female | 34.011 | 30.571 | 30.291 | 30.155 | 30.575 | 31.619 |
| Cattle over 2 years | 110.937 | 103.249 | 99.859 | 95.845 | 99.250 | 101.160 |
| Male | 5.442 | 4.383 | 3.700 | 3.097 | 3.521 | 3.702 |
| Heifers | 24.607 | 22.649 | 18.637 | 16.332 | 20.476 | 21.332 |
| Dairy cows | 58.840 | 43.346 | 45.008 | 46.195 | 46.199 | 46.903 |
| Suckler cows | 17.563 | 27.610 | 32.485 | 30.221 | 29.054 | 29.223 |
| Total pigs | 75.463 | 80.141 | 83.774 | 87.518 | 87.092 | 95.337 |
| Piglets under 20 kg* | 28.185 | 28.824 | - | - | - | - |
| Pigs from 20 to 50 kg* | 15.315 | 15.811 | - | - | - | - |
| Pigs for fattening | 21.627 | 26.425 | - | - | - | - |
| Piglets under 8 kg* | - | - | 9.085 | 10.935 | 9.606 | 10.486 |
| Piglets from 8 to 30 kg* | - | - | 21.943 | 17.485 | 17.388 | 19.947 |
| Fattening pigs > 30 kg | - | - | 45.157 | 52.836 | 54.144 | 59.478 |
| Breeding pigs | 10.336 | 9.081 | 7.589 | 6.262 | 5.954 | 5.426 |
| Sheep | 7.281 | 7.971 | 9.084 | 8.582 | 8.721 | 9.453 |
| Goats | - | 297 | 5.084 | 4.456 | 4.322 | 4.772 |
| Poultry | 69.021 | 71.785 | 89.581 | 111.308 | 115.542 | 113.727 |

Source: Farm Structure Survey (STATEC)

* change of categories for piglets from 2003 onwards: „under 10 kg“ instead of „under 20 kg“ and „from 10 to 50 kg“ instead of „20 to 50 kg“

Number of farms and utilized area by farming system

| | 2000 | 2005 | 2010 | 2013 | 2014 | 2015 |
|--|----------------|----------------|----------------|----------------|----------------|----------------|
| Number of farms | | | | | | |
| Conventional farming | 2.705 | 2.396 | 2.132 | 1.990 | 1.955 | 1.939 |
| Organic farming (1) | 23 | 53 | 69 | 87 | 87 | 83 |
| Total | 2.728 | 2.449 | 2.201 | 2.077 | 2.042 | 2.022 |
| Utilized agricultural area (ha) | | | | | | |
| Conventional farming | 126.631 | 126.016 | 127.600 | 126.595 | 126.586 | 127.145 |
| Organic farming (1) | 1.012 | 3.112 | 3.505 | 4.448 | 4.491 | 4.239 |
| Total | 127.643 | 129.128 | 131.106 | 131.043 | 131.077 | 131.384 |

Source: Farm Structure Survey (STATEC)

(1) farms that are converted or in the process of being converted and recognized by the ASTA in accordance with the regulation (EC) 834/2007, and that are above the minimum criteria for STATEC survey

5. Employment in agriculture*

| in persons | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|---|--------|--------|--------|--------|--------|--------|
| Family labour force | 8.230 | 5.554 | 4.321 | 4.062 | 3.920 | 3.906 |
| Men | 5.006 | 3.429 | 2.847 | 2.705 | 2.617 | 2.598 |
| Full-time employment | 2.736 | 1.773 | 1.596 | 1.484 | 1.427 | 1.410 |
| Part-time employment | | | | | | |
| < 25% | 582 | 272 | 367 | 446 | 428 | 443 |
| 25 - 50% | 549 | 422 | 375 | 491 | 403 | 425 |
| 50 - 75% | 747 | 495 | 293 | 197 | 211 | 207 |
| > 75% | 392 | 467 | 216 | 87 | 148 | 113 |
| Women | 3.224 | 2.125 | 1.474 | 1.357 | 1.303 | 1.308 |
| Full-time employment | 378 | 145 | 512 | 465 | 465 | 457 |
| Part-time employment | | | | | | |
| < 25% | 370 | 186 | 232 | 309 | 300 | 300 |
| 25 - 50% | 652 | 514 | 261 | 278 | 261 | 247 |
| 50 - 75% | 1.275 | 743 | 346 | 231 | 209 | 231 |
| > 75% | 549 | 537 | 123 | 74 | 68 | 73 |
| Non-family labour force | | | | | | |
| Regularly employed labour force | 595 | 650 | 655 | 890 | 952 | 926 |
| Day-labourers (working days) | 13.861 | 26.189 | 42.347 | 49.091 | 42.123 | 60.122 |
| in annual work units (AWU) ¹ | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
| Family labour force | 5.330 | 3.594 | 2.961 | 2.613 | 2.558 | 2.529 |
| Non-family labour force | 625 | 698 | 765 | 942 | 976 | 1.005 |
| Regularly employed labour force | 575 | 603 | 586 | 763 | 822 | 786 |
| Day-labourers | 50 | 95 | 179 | 179 | 154 | 219 |
| Total labour force | 5.955 | 4.292 | 3.726 | 3.555 | 3.534 | 3.534 |

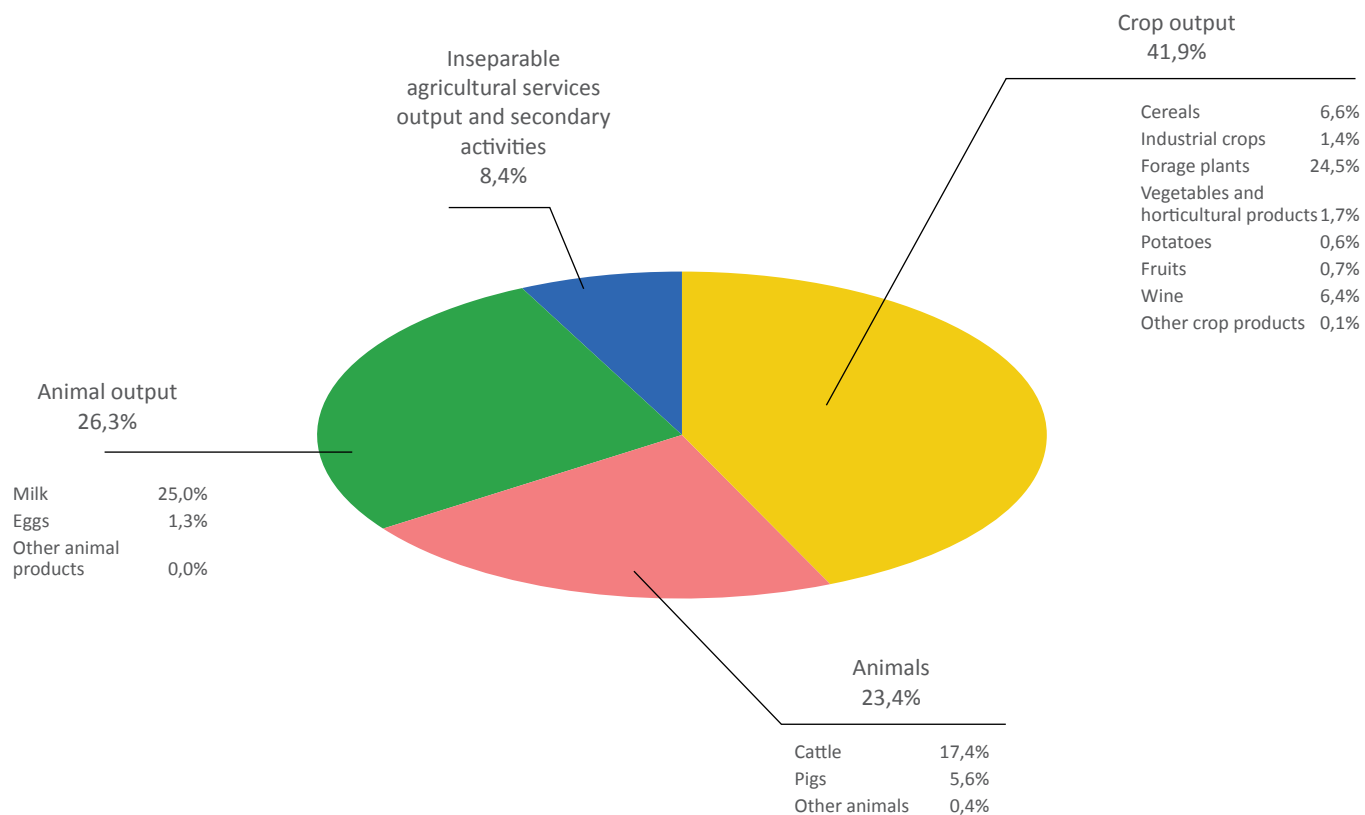
Source: Farm Structure Survey (STATEC)

* Since 2002, employees of associated holdings are considered as family labour forces instead of non-family labour forces

¹ AWU is equivalent to a worker employed on a full time basis in one year. In Luxembourg it is as 2.200 working hours per year (275 eight-hour working days), provided the person is between 15 and 80 years.

6. Agricultural production

Part of the different productions in the output of the agricultural industry at basic prices 2015 (provisional data)



Source: Service d'Economie Rurale

6. Agricultural production

Output of the agricultural industry at basic prices, intermediate consumption, gross value added at basic prices, factor income (1.000€, VAT excluded)

| | 1990 | 2000 | 2010 | 2013 | 2014 | 2015p | 2015/14 (%) |
|---|---------|---------|---------|---------|---------|---------|-------------|
| Crop output (value at basic prices) | 80.543 | 86.465 | 132.606 | 206.479 | 194.529 | 167.362 | 86,0 |
| Cereals (seeds included) | 23.647 | 23.176 | 25.395 | 29.351 | 23.185 | 26.530 | 114,4 |
| Industrial crops | 2.266 | 3.461 | 5.477 | 5.780 | 4.917 | 5.505 | 111,9 |
| Forage plants | 22.620 | 19.331 | 68.366 | 137.623 | 125.791 | 97.815 | 77,8 |
| Vegetables and horticultural products | 5.047 | 4.455 | 5.186 | 5.452 | 6.662 | 6.634 | 99,6 |
| Potatoes (seeds included) | 3.128 | 3.190 | 4.957 | 3.773 | 2.357 | 2.239 | 95,0 |
| Fruits | 1.403 | 3.946 | 2.344 | 2.257 | 2.691 | 2.601 | 96,7 |
| Wine | 22.419 | 28.565 | 20.686 | 21.723 | 28.559 | 25.519 | 89,4 |
| Other crop products | 12 | 342 | 195 | 521 | 367 | 520 | 141,7 |
| Animal output (value at basic prices) | 164.001 | 156.186 | 164.968 | 205.662 | 215.702 | 198.322 | 91,9 |
| Animals | 63.897 | 72.697 | 77.137 | 93.642 | 96.954 | 93.314 | 96,2 |
| Cattle | 48.297 | 53.838 | 54.846 | 64.017 | 69.859 | 69.341 | 99,3 |
| Pigs | 14.849 | 17.412 | 20.532 | 27.797 | 25.330 | 22.312 | 88,1 |
| Other animals | 751 | 1.448 | 1.759 | 1.829 | 1.764 | 1.661 | 94,2 |
| Animal products | 100.104 | 83.488 | 87.831 | 112.020 | 118.748 | 105.008 | 88,4 |
| Milk | 97.977 | 81.708 | 84.316 | 107.153 | 113.567 | 99.762 | 87,8 |
| Eggs | 1.703 | 1.539 | 3.322 | 4.749 | 5.012 | 5.070 | 101,2 |
| Other animal products | 424 | 240 | 193 | 118 | 169 | 176 | 104,2 |
| Agricultural services output and secondary activities (inseparable) | 9.187 | 13.577 | 27.760 | 32.643 | 33.412 | 33.751 | 101,0 |
| Output of the agricultural industry | 253.731 | 256.228 | 325.334 | 444.784 | 443.642 | 399.435 | 90,0 |
| Intermediate consumption | 127.432 | 135.055 | 240.513 | 337.861 | 330.367 | 305.394 | 92,4 |
| Gross value added at basic prices | 126.299 | 121.173 | 84.822 | 106.923 | 113.275 | 94.041 | 83,0 |
| Fixed capital consumption | 29.722 | 52.487 | 87.721 | 97.182 | 98.319 | 99.105 | 100,8 |
| Net value added at basic prices | 96.577 | 68.686 | -2.900 | 9.741 | 14.957 | -5.064 | -33,9 |
| Other taxes on production | 2.898 | 1.024 | 1.065 | 1.065 | 1.065 | 1.065 | 100,0 |
| Other subsidies on production | 15.642 | 29.063 | 65.178 | 65.389 | 65.686 | 75.849 | 115,5 |
| Factor income | 109.321 | 96.725 | 61.213 | 74.064 | 79.578 | 69.719 | 87,6 |

Source: Service d'Economie Rurale

Quantities of crop products and forage plants produced

| Production (in tons) | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|--|----------------|----------------|----------------|----------------|----------------|----------------|
| Wheat and spelt | 43.511 | 61.184 | 83.474 | 91.057 | 77.943 | 91.058 |
| Winter wheat | 39.657 | 58.380 | 80.367 | 86.433 | 70.726 | 82.053 |
| Spring wheat | 3.854 | 1.893 | 1.731 | 3.096 | 5.416 | 4.431 |
| Spelt (until 99: included in winter wheat) | - | 911 | 1.375 | 1.528 | 1.801 | 4.574 |
| Rye | 2.366 | 3.603 | 5.118 | 4.766 | 5.591 | 5.610 |
| Barley | 69.611 | 53.533 | 43.003 | 42.485 | 45.962 | 44.382 |
| Winter barley | 26.773 | 28.817 | 29.182 | 25.890 | 28.753 | 31.184 |
| Spring barley | 42.838 | 24.716 | 13.822 | 16.595 | 17.210 | 13.198 |
| Brewing barley | - | 2.991 | 2.785 | 1.167 | 2.099 | 1.134 |
| Oats | 18.757 | 9.217 | 4.789 | 5.535 | 5.476 | 5.879 |
| Mixed grains and others | 2.157 | 3.410 | 1.162 | 1.538 | 1.846 | 1.286 |
| Mixed grains | - | - | 917 | 1.372 | 1.695 | 929 |
| Others | - | - | 246 | 166 | 151 | 357 |
| Grain maize | - | 2.040 | 3.116 | 2.173 | 1.962 | 928 |
| Triticale | 11.037 | 19.843 | 25.523 | 25.746 | 30.073 | 27.273 |
| TOTAL CEREALS | 147.439 | 152.830 | 166.185 | 173.300 | 168.563 | 176.516 |
| Dried pulses | 1.360 | 1.235 | 973 | 933 | 1.047 | 1.565 |
| Peas | - | - | 762 | 753 | 750 | 1.156 |
| Beans | - | - | 125 | 161 | 266 | 163 |
| Potatoes | 22.963 | 23.430 | 19.531 | 17.540 | 18.979 | 12.971 |
| Rapeseed | 5.348 | 8.370 | 15.895 | 15.259 | 15.705 | 13.834 |
| Forage plants (DM) | - | 298.941 | 280.177 | 314.050 | 366.165 | 259.940 |
| Green maize (DM) | - | 130.236 | 181.104 | 181.685 | 225.593 | 168.552 |
| Temporary grass (DM) | - | 162.483 | 95.129 | 123.644 | 129.241 | 79.127 |
| Grass seeds | - | 708 | 508 | 649 | 467 | 654 |
| Permanent pasture and meadows (DM) | - | 639.715 | 479.438 | 584.614 | 604.953 | 411.860 |

Source: Service d'Economie Rurale

DM = Dry matter

6. Agricultural production

Quantities of wine produced by grape variety (in hl)

| Variety | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|----------------|---------|---------|---------|---------|---------|---------|
| Elbling | 27.866 | 17.635 | 11.610 | 9.795 | 10.907 | 9.168 |
| Rivaner | 75.921 | 48.412 | 35.371 | 32.218 | 37.874 | 33.254 |
| Auxerrois | 17.004 | 15.789 | 17.470 | 16.157 | 17.855 | 16.355 |
| Chardonnay | - | 759 | 909 | 989 | 1.517 | 1.492 |
| Pinot blanc | 8.749 | 13.647 | 14.329 | 12.961 | 16.651 | 15.361 |
| Pinot gris | 7.265 | 13.316 | 12.991 | 12.090 | 16.171 | 14.700 |
| Pinot noir | - | 5.054 | 6.834 | 6.294 | 8.406 | 8.161 |
| Riesling | 13.207 | 16.406 | 9.914 | 9.427 | 13.497 | 10.734 |
| Gewürztraminer | 1.108 | 713 | 495 | 666 | 1.041 | 1.068 |
| Other | 624 | 200 | 325 | 292 | 1.016 | 401 |
| TOTAL | 151.744 | 131.931 | 110.248 | 100.888 | 124.936 | 110.694 |

Source: Institut Viti-Vinicole

Cultivated area by grape variety (in ha)

| Variety | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|----------------|----------|----------|----------|----------|----------|----------|
| Elbling | 235,98 | 162,06 | 105,10 | 92,70 | 89,50 | 85,30 |
| Rivaner | 570,90 | 443,94 | 336,70 | 318,90 | 315,00 | 308,00 |
| Auxerrois | 149,90 | 162,23 | 175,90 | 180,80 | 179,60 | 179,90 |
| Chardonnay | - | 7,94 | 16,20 | 19,10 | 21,30 | 23,40 |
| Pinot blanc | 81,04 | 133,77 | 138,30 | 150,80 | 152,50 | 155,80 |
| Pinot gris | 82,70 | 153,32 | 174,40 | 186,00 | 189,00 | 192,00 |
| Pinot noir | - | 62,36 | 93,60 | 105,80 | 111,90 | 116,50 |
| Riesling | 160,39 | 172,93 | 153,10 | 154,70 | 156,20 | 157,70 |
| Gewürztraminer | 7,77 | 11,11 | 18,90 | 19,90 | 20,60 | 21,00 |
| Other | 9,18 | 2,77 | 7,70 | 10,00 | 10,60 | 10,60 |
| TOTAL | 1.297,86 | 1.312,43 | 1.219,80 | 1.238,60 | 1.246,10 | 1.250,20 |

Source: Institut Viti-Vinicole

Quantities of fruit and vegetables produced

| Total harvest (in tons) | 2007 | 2008 | 2009 | 2010 | 2013 | 2014 |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| TOTAL FRUITS | 2.750 | 3.472 | 2.830 | 2.852 | 2.365 | 3.093 |
| Pomaceous fruit | 2.515 | 3.354 | 2.595 | 2.664 | 2.159 | 2.897 |
| Apples | 2.233 | 3.079 | 2.340 | 2.406 | 1.926 | 2.615 |
| thereof dessert apples | 1.280 | 1.256 | 1.560 | 1.337 | 1.103 | 1.475 |
| Pears | 282 | 275 | 255 | 258 | 233 | 282 |
| Stone fruits | 188 | 85 | 191 | 146 | 162 | 150 |
| Cherries | 14 | 7 | 18 | 12 | 5 | 11 |
| Plums | 174 | 78 | 173 | 134 | 157 | 139 |
| Nuts | 23 | 19 | 24 | 24 | 24 | 26 |
| Walnuts | 23 | 19 | 24 | 24 | 24 | 26 |
| Strawberries | 23 | 13 | 19 | 17 | 19 | 19 |
| Berries | 1 | 1 | 1 | 1 | 1 | 1 |
| TOTAL VEGETABLES | 1.050 | 1.080 | 1.186 | 1.237 | 2.202 | 2.552 |
| White cabbage | 41 | 28 | 41 | 57 | 99 | 136 |
| Lettuce | 179 | 164 | 124 | 134 | 239 | 427 |
| Endive | 76 | 65 | 67 | 79 | 120 | 140 |
| Tomatoes | 85 | 83 | 75 | 71 | 104 | 123 |
| Marrows | 55 | 37 | 42 | 39 | 42 | 32 |
| Carrots | 203 | 310 | 409 | 478 | 935 | 1.000 |
| Onions | 92 | 66 | 81 | 40 | 138 | 120 |
| Celeriac | 99 | 95 | 118 | 102 | 220 | 254 |
| Pulses | 43 | 49 | 47 | 42 | 70 | 77 |
| Other vegetables | 177 | 183 | 182 | 195 | 235 | 243 |

Source: ASTA

6. Agricultural production

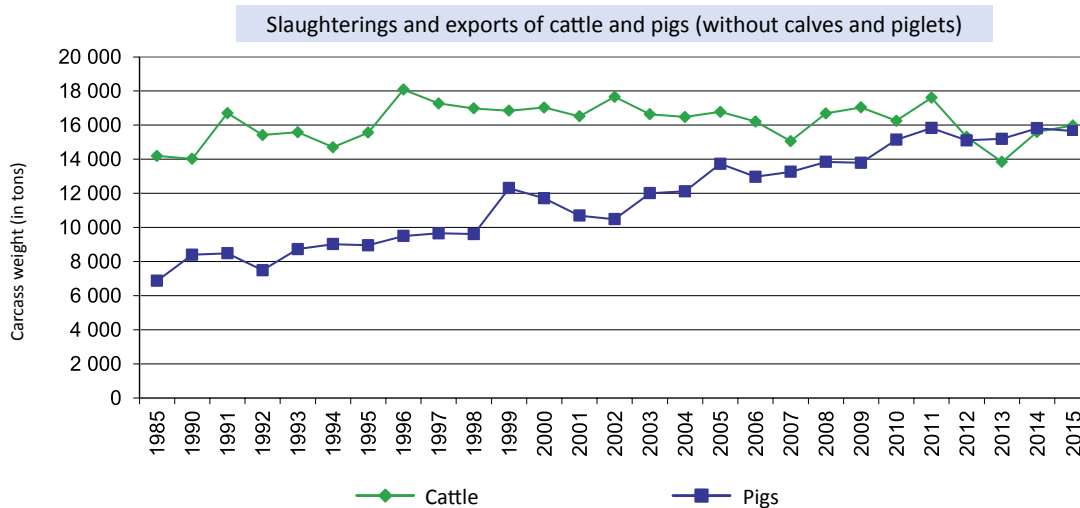
Production of animals

| | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|--|--------|--------|--------|--------|--------|--------|
| Slaughterings and exports of cattle ¹ | 14.024 | 17.030 | 16.257 | 13.844 | 15.595 | 15.984 |
| Slaughterings of calves ¹ | 140 | 475 | 252 | 213 | 208 | 201 |
| Export of calves alive (heads) | 17.707 | 16.625 | 14.698 | 13.775 | 15.839 | 18.135 |
| Slaughterings and exports of pigs ¹ | 8.402 | 11.710 | 15.142 | 15.198 | 15.817 | 15.625 |
| Slaughterings of piglets (heads)* | 48.187 | 34.426 | 13.774 | 14.412 | 16.299 | 17.673 |
| Export of piglets alive (heads) | - | 19.584 | 17.383 | 25.235 | 24.101 | 18.116 |
| Slaughterings of sheep and goats ¹ | 147 | 119 | 172 | 177 | 178 | 180 |
| Slaughterings of poultry ¹ | 62 | 163 | 232 | 229 | 232 | 199 |

own consumption is included for all productions

** export of piglets alive included until 1997*

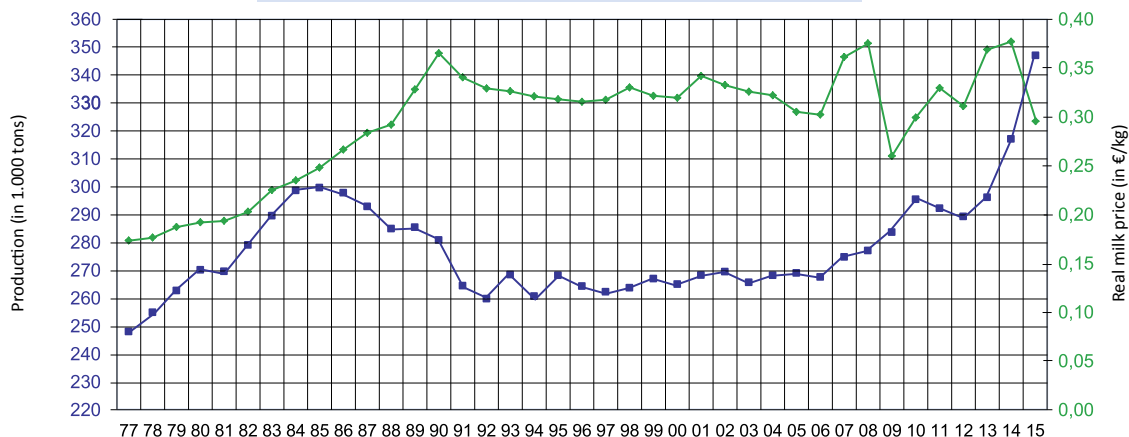
¹ in tons of carcass weight



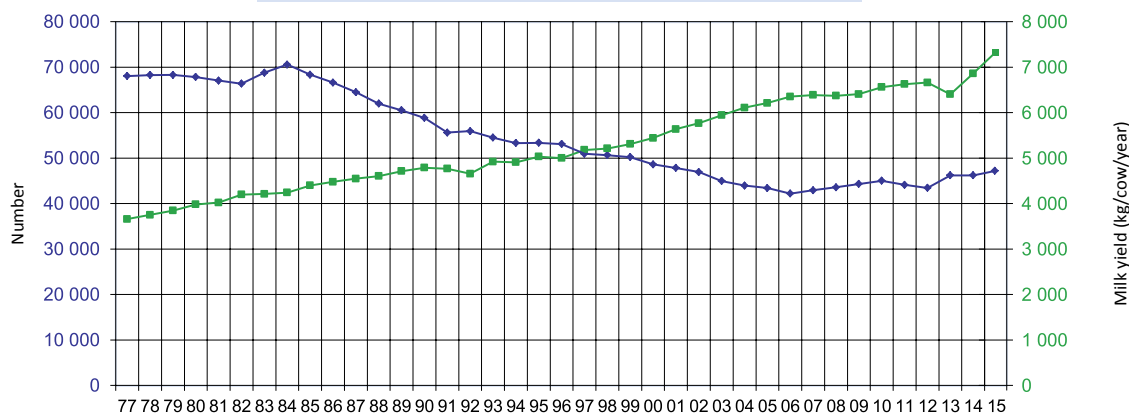
Source: Service d'Economie Rurale

Milk production

Milk production and producer price for milk



Number of dairy cows and milk yield per cow



Source: Service d'Economie Rurale

6. Agricultural production

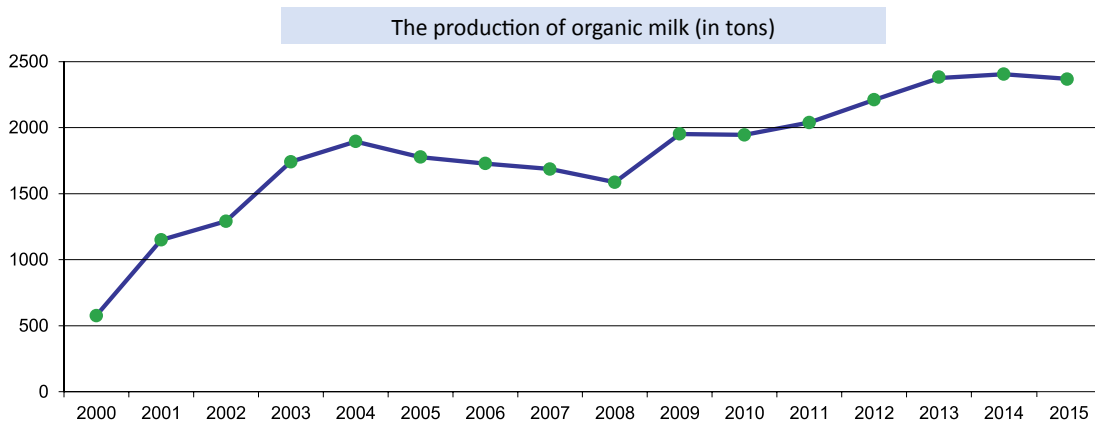
Total milk production*

| Year | Milk production (1.000 tons) | Fat content (%) | Protein content (%) | Number of dairy cows | Milk yield per cow (kg/cow/year) |
|------|---------------------------------|--------------------|------------------------|-------------------------|-------------------------------------|
| 1980 | 270,1 | 3,91 | - | 67.830 | 3.982 |
| 1990 | 281,7 | 4,09 | 3,26 | 58.840 | 4.788 |
| 2000 | 264,5 | 4,19 | 3,36 | 48.607 | 5.441 |
| 2010 | 295,3 | 4,18 | 3,40 | 45.008 | 6.561 |
| 2013 | 295,9 | 4,13 | 3,36 | 46.195 | 6.404 |
| 2014 | 317,0 | 4,09 | 3,38 | 46.199 | 6.863 |
| 2015 | 346,3 | 4,11 | 3,37 | 46.908 | 7.382 |

* contains dairy deliveries, direct marketing, self-consumption and feeding of calves

Production of organic milk

| | 2000 | 2010 | 2013 | 2014 | 2015 |
|---|-------|---------|---------|---------|---------|
| Production (in tons) | 577,0 | 1.944,4 | 2.369,0 | 2.400,1 | 2.355,6 |
| Part of organic milk in milk production | 0,22% | 0,66% | 0,80% | 0,76% | 0,68% |



Source: Service d'Economie Rurale

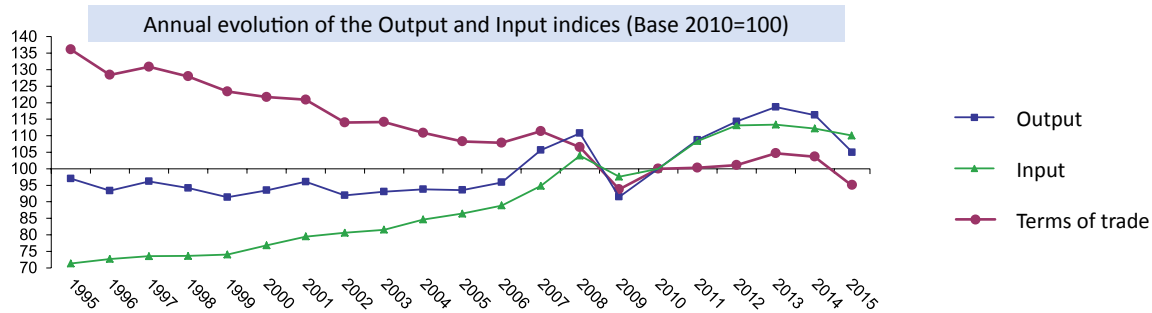
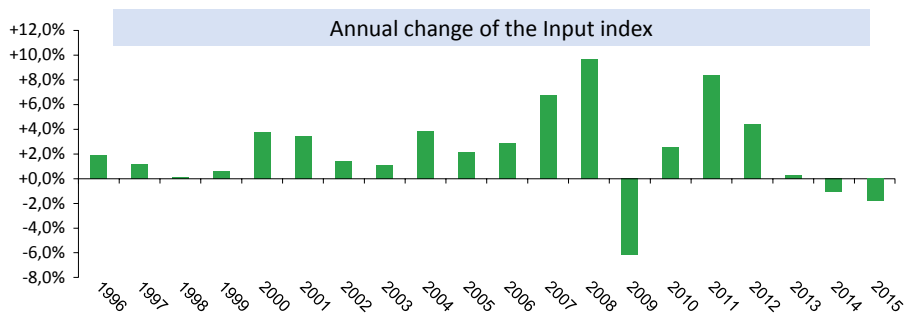
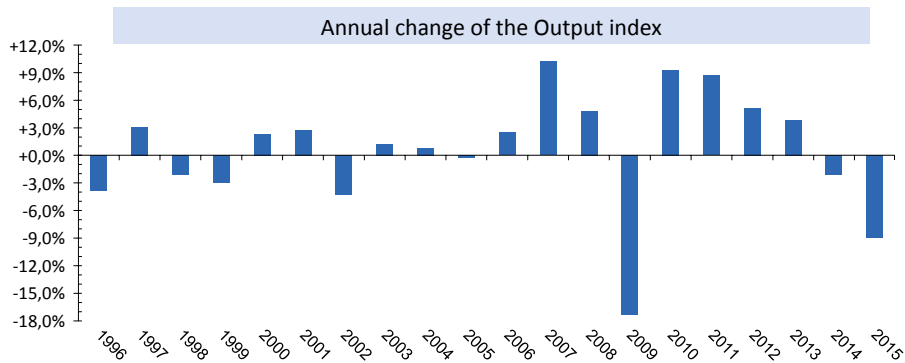
7. Agricultural prices

Price indices (2010 = 100)

| Description | 1995 | 2000 | 2010 | 2013 | 2014 | 2015 |
|---|--------------|--------------|--------------|--------------|--------------|--------------|
| Cereals (including seeds) | 89,6 | 80,5 | 100,0 | 110,8 | 97,8 | 105,1 |
| Industrial crops | 62,1 | 59,3 | 100,0 | 112,4 | 97,9 | 112,2 |
| Vegetables and horticultural products | 32,4 | 36,1 | 100,0 | 59,5 | 54,6 | 55,3 |
| Potatoes (including seeds) | 63,9 | 47,3 | 100,0 | 109,9 | 85,4 | 82,1 |
| Fruits | 52,6 | 40,7 | 100,0 | 111,9 | 105,4 | 111,7 |
| Wine (including must) | 79,4 | 93,1 | 100,0 | 110,4 | 110,4 | 110,4 |
| Other crop products | - | - | 100,0 | 125,8 | 116,1 | 116,1 |
| Cropt output | 75,6 | 77,7 | 100,0 | 108,4 | 101,1 | 104,5 |
| Animals | 104,0 | 91,7 | 100,0 | 121,6 | 115,4 | 111,6 |
| Cattle | 100,0 | 84,5 | 100,0 | 121,5 | 118,0 | 118,8 |
| Pigs | 113,6 | 109,1 | 100,0 | 122,7 | 108,4 | 93,2 |
| Sheep and goats | - | - | 100,0 | 88,1 | 96,9 | 89,0 |
| Poultry | 131,7 | 131,7 | 100,0 | 130,9 | 131,6 | 117,6 |
| Animal products | 104,1 | 104,8 | 100,0 | 122,6 | 125,3 | 99,6 |
| Milk | 105,5 | 105,9 | 100,0 | 123,0 | 125,8 | 99,2 |
| Eggs | 64,1 | 74,3 | 100,0 | 111,5 | 111,5 | 111,5 |
| Animal output | 104,0 | 98,7 | 100,0 | 122,1 | 120,6 | 105,3 |
| Agricultural goods output | 97,0 | 93,5 | 100,0 | 118,7 | 115,8 | 105,1 |
| Goods and services currently consumed in agriculture (Input 1) | 70,2 | 75,2 | 100,0 | 118,5 | 115,1 | 110,9 |
| Seeds and planting stock | 69,9 | 77,0 | 100,0 | 103,5 | 102,9 | 105,4 |
| Energy, lubricants | 41,4 | 59,4 | 100,0 | 120,6 | 114,3 | 94,3 |
| Fertilisers and soil improvers | 64,0 | 60,6 | 100,0 | 120,9 | 123,2 | 126,2 |
| Plant protection products and pesticides | 76,8 | 71,4 | 100,0 | 106,1 | 108,0 | 107,0 |
| Veterinary expenses | 81,9 | 93,1 | 100,0 | 100,3 | 99,3 | 97,7 |
| Animal feed | 81,8 | 85,1 | 100,0 | 136,4 | 126,8 | 119,6 |
| Maintenance of materials | 80,7 | 83,7 | 100,0 | 103,0 | 101,0 | 99,4 |
| Maintenance of buildings | 72,5 | 81,3 | 100,0 | 105,4 | 106,8 | 107,9 |
| Other goods and services | 61,2 | 66,1 | 100,0 | 111,6 | 112,7 | 113,9 |
| Goods and services contributing to agricultural investment (Input 2) | 72,8 | 78,9 | 100,0 | 106,8 | 108,3 | 109,2 |
| Materials | 71,3 | 76,9 | 100,0 | 105,6 | 106,9 | 107,6 |
| Buildings | 74,3 | 80,8 | 100,0 | 107,8 | 109,4 | 110,5 |
| Other | 65,5 | 74,8 | 100,0 | 105,8 | 108,3 | 109,9 |
| Input Total (Input 1 + Input 2) | 71,3 | 76,8 | 100,0 | 113,4 | 112,1 | 110,1 |
| Terms of Trade | 136,1 | 121,7 | 100,0 | 104,7 | 103,2 | 95,4 |

Source: Service d'Economie Rurale

7. Agricultural prices



Producer prices at farmgate for agricultural products (VAT excluded)

| | | 1990 | 2000 | 2010 | 2013 | 2014 | 2015 |
|--|---------|--------|--------|--------|--------|--------|--------|
| Breadmaking wheat | €/100kg | 17,65 | 13,10 | 17,27 | 17,46 | 15,86 | 15,91 |
| Feeding wheat | €/100kg | 14,50 | 10,13 | 13,00 | 15,27 | 12,91 | 14,74 |
| Spelt | €/100kg | - | 10,91 | 13,50 | 22,54 | 32,21 | 13,06 |
| Breadmaking rye | €/100kg | 16,24 | 9,54 | 14,25 | 13,24 | 11,29 | 14,21 |
| Feeding rye | €/100kg | - | - | 12,75 | 13,05 | 11,77 | 12,90 |
| Feeding barley | €/100kg | 14,50 | 9,48 | 12,50 | 14,44 | 12,65 | 14,17 |
| Malting barley | €/100kg | 17,60 | 11,53 | 12,75 | 16,45 | 15,54 | 18,15 |
| Oats | €/100kg | 14,01 | 10,16 | 9,50 | 12,78 | 10,21 | 11,73 |
| Grain maize | €/100kg | - | 11,90 | 16,22 | 20,00 | 12,80 | 15,45 |
| Triticale | €/100kg | 14,50 | 9,05 | 12,75 | 13,93 | 12,08 | 13,78 |
| Rapeseed for human consumption | €/100kg | 37,56 | 17,60 | 30,50 | 34,15 | 29,76 | 34,17 |
| Rapeseed for industrial uses | €/100kg | - | 15,87 | 30,50 | 34,15 | 29,76 | 34,17 |
| Feeding peas | €/100kg | 24,05 | 11,16 | 13,00 | 19,00 | 16,92 | 16,90 |
| Field beans | €/100kg | 21,81 | 11,16 | 13,00 | 19,50 | 17,00 | 16,90 |
| Potatoes for human consumption | €/100kg | 16,73 | 16,11 | 35,36 | 38,08 | 20,81 | 30,87 |
| Cattle for slaughtering | €/kg* | 3,11 | 2,47 | 2,79 | 3,49 | 3,32 | 3,36 |
| Calves for slaughtering | €/kg* | 5,98 | 5,35 | 5,59 | 5,94 | 5,69 | 5,97 |
| Export calves (2 weeks old) | €/head | 220,63 | 148,29 | 99,37 | 110,36 | 108,80 | 100,00 |
| Pigs for slaughtering | €/kg | 1,72 | 1,43 | 1,26 | 1,66 | 1,49 | 1,33 |
| Piglets | €/head | 52,06 | 35,23 | 42,29 | 50,79 | 44,94 | 49,50 |
| Milk (3,7% fat and 3,3% protein) | €/kg | 0,3582 | 0,3041 | 0,2847 | 0,3516 | 0,3582 | 0,2824 |
| Milk (effective fat and protein content) | €/kg | 0,3654 | 0,3197 | 0,2995 | 0,3690 | 0,3751 | 0,2967 |

Source: Service d'Economie Rurale

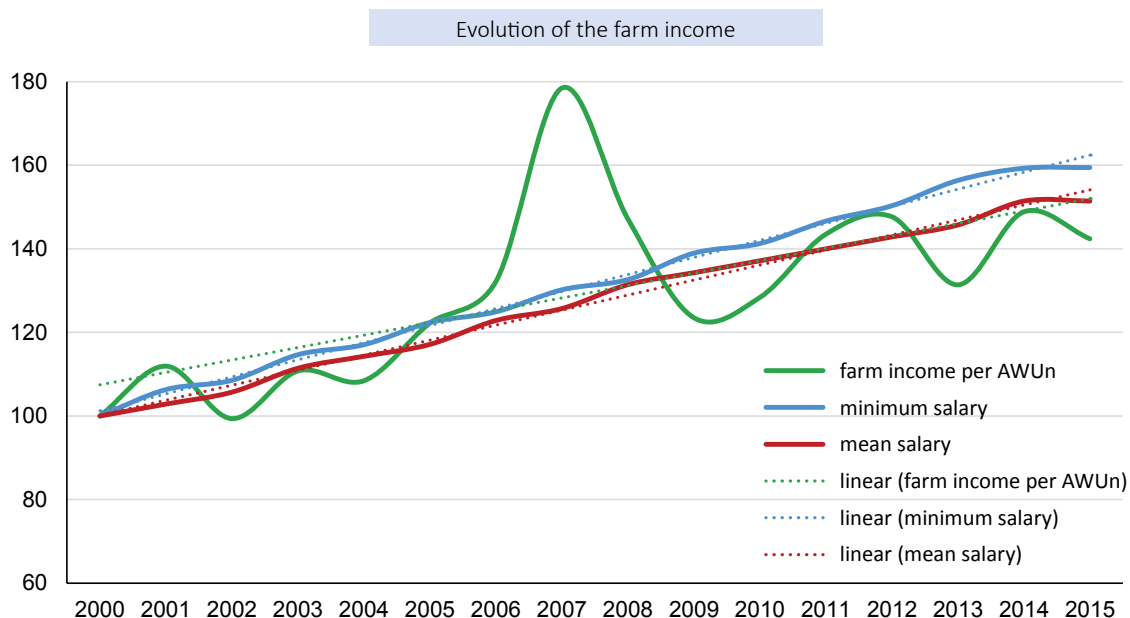
* carcass weight

8. Economic situation of the agricultural holdings

The economic situation of the agricultural holdings in Luxembourg is raised through the farm accountancy data network (FADN).

The FADN field of survey relates to „commercial“ farms only. The agricultural holdings are selected to be representative for each division of the holdings obtained by combination of type of farming and economic size class. The FADN sample for Luxembourg contains 450 farms (2014).

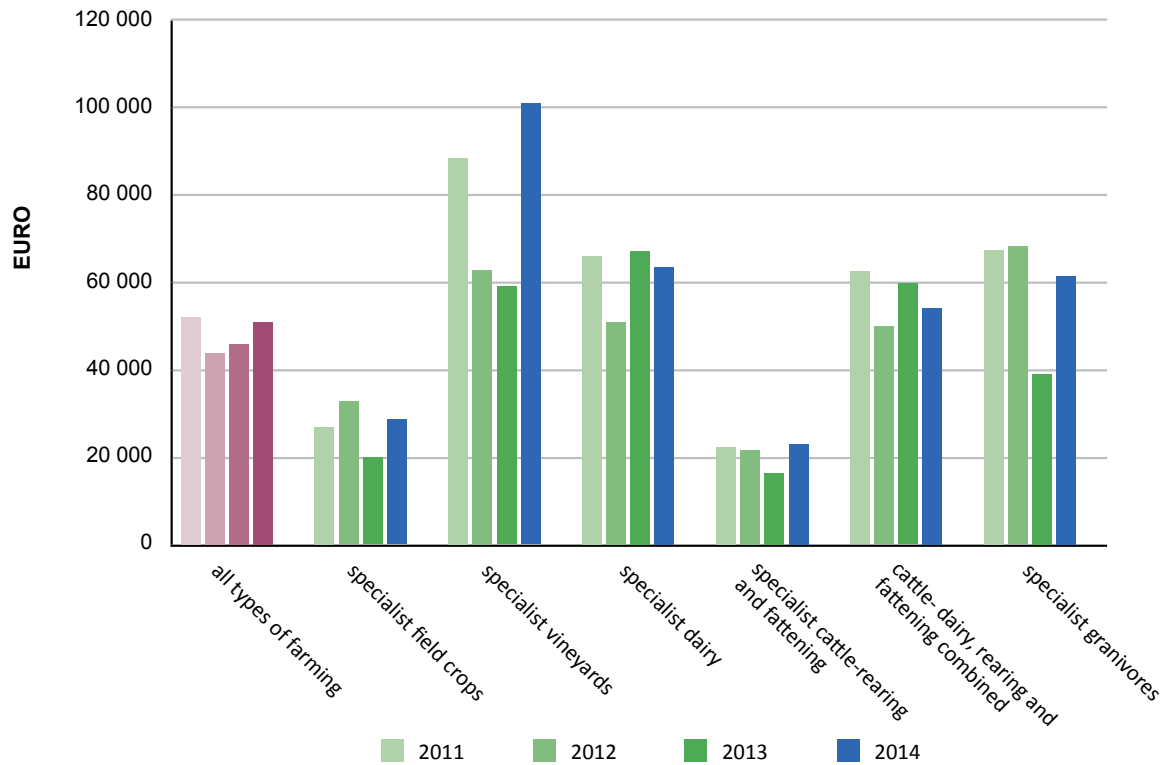
The following graph shows the evolution of the farm income per annual family work unit (AWUn). The agricultural income is compared to the minimum salary and to the mean salary in Luxembourg. The evolution is given in relative terms, the base year being the year 2000 (2000=100).



Source: Service d'Economie Rurale

The following diagram shows the evolution during the last years of the farm income per annual family work unit (AWUn) by type of farming.

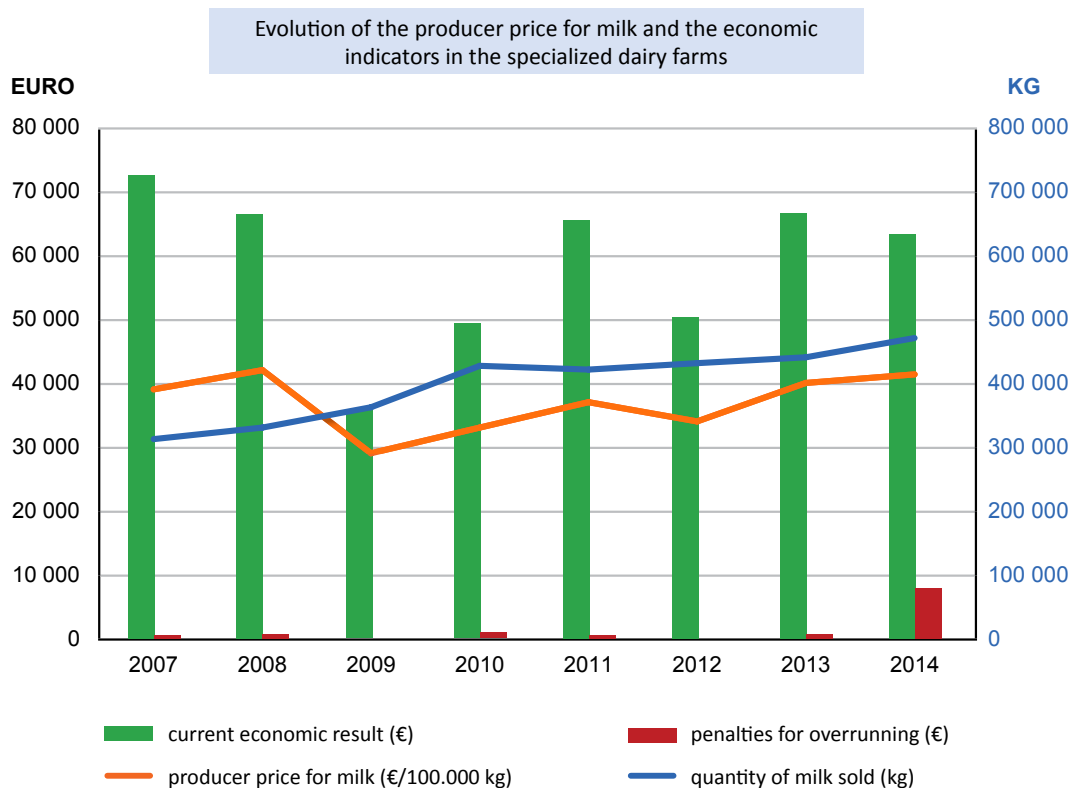
Evolution of farm income per AWUn by type of farming



Source: Service d'Economie Rurale

8. Economic situation of the agricultural holdings

The category of the specialized dairy farms represents a large part of the commercial farms in Luxembourg. The following diagram shows the evolution of the producer price for milk, of the quantity of milk per farm sold by the specialized dairy farms, the current economic result of the farm and the penalties paid per farm for overrunning the milk quota allocated to the farm.



Source: Service d'Economie Rurale

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