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FARMING STATISTICS PROVISIONAL CROP AREAS, YIELDS AND LIVESTOCK POPULATIONS AT JUNE 2013, UNITED KINGDOM

This release contains provisional estimates for land use, crop areas and livestock populations on agricultural holdings in the UK and the size of the UK cereals and oilseed rape harvest for 2013. Final results will be published on 19 December 2013. Results are not yet available for poultry, horses, goats, farmed deer, camelids and labour numbers. These will be published with the final results on 19 December 2013. Wales do not produce provisional results for crop areas and livestock numbers so 2012 for Wales have been carried forward to allow UK totals to be calculated for 2013.

The key results are given below.

Agricultural land areas (Tables 1 - 2)

The total utilised agricultural area (UAA) in the UK has increased by 0.4% to just under 17.3 million hectares. The increases in areas of uncropped arable land and temporary grass have been partially offset by the decrease seen in the area of total crops.

Crop yields and production (Table 3)

Wheat: The provisional 2013 wheat harvest for the UK is 12.1 million tonnes, a decrease of 8.7% on 2012. This drop in production has been driven by the large fall in planted area, a decrease of 18% since last year to 1.6 million hectares. The decrease in planted area is a result of the prolonged wet weather leading to very difficult planting conditions. Improved yields have slightly offset the impact of the fall in area with yields increasing by 12% since 2012 to 7.4 tonnes per hectare.

Oilseed rape: The provisional oilseed rape harvest has shown a decline of 16% to 2.1 million tonnes for 2013. This has been the result of falls in both yield and planted area. The yield has decreased by 11% to 3.0 tonnes per hectare following the very poor weather over the winter and spring. The area has decreased by 5.2% to 716 thousand hectares.

Barley: Production for 2013 has shown a large increase of 29% to 7.1 million tonnes. This increase has been driven by the large increase in the area of Spring Barley planted which increased by 46% to 902 thousand hectares. The area of winter barley decreased by 19% to 313 thousand hectares following difficult planting conditions throughout the winter. The yield for barley increased by 6.2% to 5.8 tonnes per hectare.

Enquiries on this publication to Jennie Blackburn (crop areas and livestock numbers) or Sarah Harriss (cereal and oilseed production and yields), Farming Statistics, Department for Environment, Food and Rural Affairs. Tel: 01904 455332, email: <u>farming-statistics@defra.gsi.gov.uk</u>.

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Horticultural crops (Tables 4 - 6)

The total area of horticultural crops has decreased by 4.9% between 2012 and 2013, now standing at 163 thousand hectares. Vegetables and salad for human consumption make up the majority of this area at 116 thousand hectares, a reduction of 6.0% from 2012.

Livestock (Tables 7 - 11)

The total number of cattle and calves decreased by 0.6% between 2012 and 2013 to just over 9.8 million. The breeding herd decreased by 2.2% to 3.4 million in 2013. The beef and dairy herds both saw reductions, falling by 2.8% and 1.6% respectively.

Pig numbers have seen an increase of 8.2% from 2012, now standing at 4.8 million. This is mainly due to the 9.4% increase in fattening pigs which has offset the 1.2% decrease in breeding pigs.

The UK population of sheep and lambs has risen by 0.3% to 32.3 million animals, largely due to the 1.5% increase in the female breeding flock to just under 15.5 million.

Estimates for poultry, horses, goats, farmed deer and camelids will be included in the final publication due on 19 December 2013.

Agricultural workforce (Table 12)

The total number of people working on agricultural holdings will be published on 19 December 2013.

Key country level changes

Figure 1 shows how the UK percentage change for certain items compares to the country level changes. The decreases seen in the wheat and potato areas in England have driven the larger UK level change. This is due to the largest proportion of these crops being grown in England.

Figure 1. Fercentage	changes between	1 2012 anu 20	J13 DY UK CU	unuy
	UK	England	Scotland	N. Ireland
	% change	% change	% change	% change
Wheat area	-18%	-19%	-14%	-5%
Potatoes area	-6%	-8%	-1%	11%
Pigs	8%	11%	-12%	2%
Sheep	0%	2%	-2%	-2%
Cattle	-1%	0%	0%	-2%

Figure 1: Percentage changes between 2012 and 2013 by UK country

Note: Wales do not produce provisional results for crop areas or livestock numbers, therefore 2012 figures are used to calculate provisional UK totals for 2013.

Data uses, next publications and survey methodology (pages 17 - 21)

Information on how each of the UK countries run their surveys can be found on pages 17 to 21 along with data uses and upcoming publication dates.

Detailed results

Utilised agricultural area

The utilised agricultural area is made up of all arable and horticultural crops, uncropped arable land, land used for outdoor pigs, temporary and permanent grassland and common rough grazing.

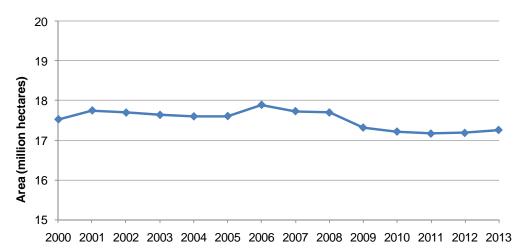


Figure 2: Total utilised agricultural area at 1 June 2000 to 2013

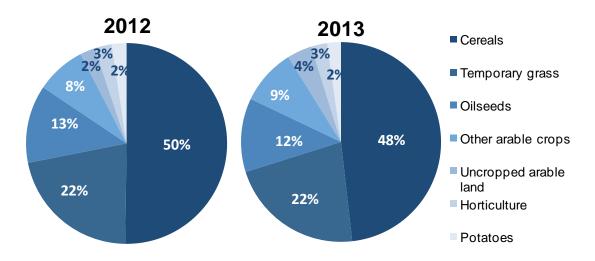
In June 2013 the total utilised agricultural area in the UK was 17.3 million hectares, covering 71% of the UK land area. Figure 2 shows that the total utilised agricultural area has remained between 17 and 18 million hectares since 2000.

Croppable area

Croppable area consists of cereals, oilseed, potatoes, other arable crops, horticultural crops, uncropped arable land and temporary grass. In 2013 the croppable area increased by 0.8% to just over 6.3 million hectares. This represents over a third of UK utilised agricultural area.

Figure 3 shows that on the whole the proportion of croppable land used for each purpose remained similar between 2012 and 2013, however some categories did see large value changes. The area of land used to grow cereals and oilseed crops both decreased by 3.2% and 4.0% respectively, whereas increases were seen in the areas of uncropped arable land (66%) and other arable crops (15%).

Figure 3: Breakdown of croppable area at 1 June 2013 compared to 2012



Cereals and oilseeds

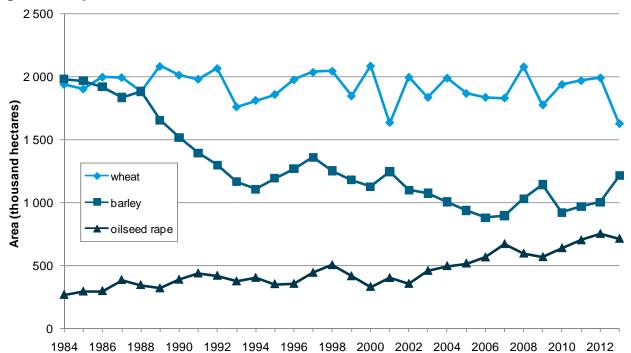


Figure 4: Crop areas in the UK between 1984 and 2013

Figure 4 shows the area of the three most popular crops grown in the UK, wheat, barley and oilseed rape. Since 1984 the wheat area has fluctuated between approximately 1.6 and 2.1 million hectares. The area of barley has declined considerably over the years from 2.0 to 1.2 million hectares. However the barley area saw a large increase of 21% between 2012 and 2013. The oilseed rape area has increased from 269 to 716 thousand hectares between 1984 and 2013. Despite the 5.2% decrease seen between 2012 and 2013, the area is still the second highest on record.

Figure 5: Crop production in the UK between 2012 and 2013

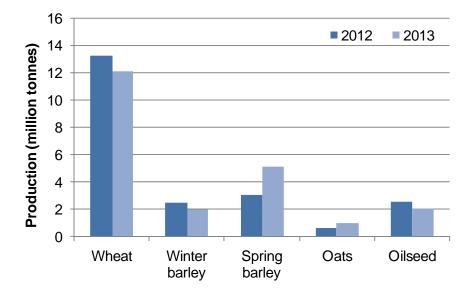


Figure 5 shows that wheat, winter barley and oilseed rape production all suffered following the difficult weather conditions of last winter and spring. Oats and spring barley both showed increases in production, with spring barley showing a large increase of 66% as farmers had to replace winter with spring planting following the very poor weather over the winter.

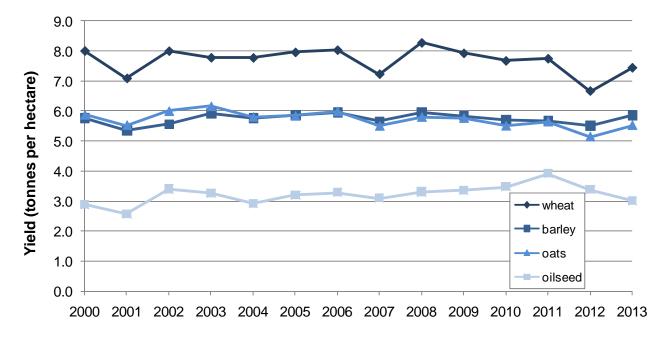


Figure 6: UK crop yields between 2001 and 2013

Figure 6 shows that all cereals except Oilseed rape have recovered from the poor yields of 2012 with wheat, barley and oats all showing increases on last year's yields. Regional figures are available in the cereal and oilseed dataset on our website at: <u>https://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs/series/structure-of-the-agricultural-industry</u>.

Wheat

The provisional estimate of the UK wheat harvest for 2013 is 12.1 million tonnes which is a decrease of 8.7% on 2012. This is the lowest level of production since 2001 and reflects the very difficult planting conditions over the winter which led to an 18% decrease in the planted area. The weather finally improved over late spring and summer which allowed those crops that survived to produce improved yields on last year with yields increasing by 12% to 7.4 tonnes per hectare.

Figure 7 (over the page) shows the variation of wheat yields across the regions with the Eastern region showing the highest average yield of 7.9 tonnes per hectare while the North West and Merseyside continues to show the lowest yield of 5.4 tonnes per hectare. Yields were not as bad as originally feared following the wet winter and cold spring as the sunshine during July greatly improved the situation.

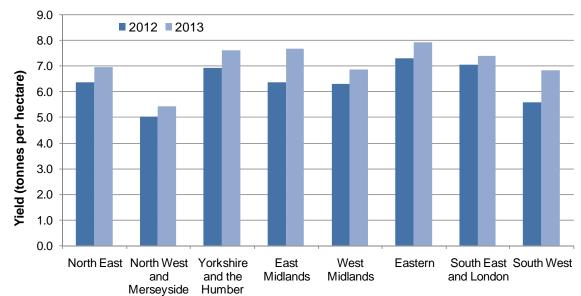


Figure 7: Wheat yield by English region 2012 to 2013

Barley

The yield for barley has increased by 6.2% since 2012 to 5.8 tonnes per hectare. On a regional basis the highest yields for barley were found in the Yorkshire and Humber region at 6.3 tonnes per hectare. The North West and Merseyside had the lowest regional yield at 5.4 tonnes per hectare.

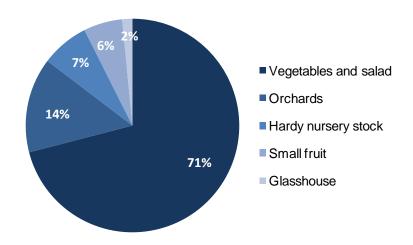
Oilseed rape

UK production for 2013 has decreased by 16% to 2.1 million hectares. This continued decline in production is due to falls in both planted area and yield. Yield has fallen by 11% to 3.0 tonnes per hectare, while planted area has fallen by 5.2% to 716 thousand hectares. The winter oilseed rape yield suffered due to late drilling followed by the wet winter, and this combined with a higher proportion of lower yielding spring plantings has contributed to the overall fall in yield.

Horticultural crops

The total area of horticultural crops decreased by 4.9% between 2012 and 2013, the land area now stands at 163 thousand hectares. The area of salad and vegetables for human consumption accounts for 71% of horticultural area and has driven the decrease, falling by 6.0% to 116 thousand hectares in 2013 (see figure 8). The areas of orchards, hardy nursery stock and glasshouse also saw decreases in 2013. However, the area of small fruit increased by 2.7% to 9.6 thousand hectares.





Cattle

2.5 Number of cattle (millions) 2.0 1.5 Dairy herd Beef herd 1.0 2005 2006 2007 2008 2009 2010 2011 2012 2013

Figure 9: Dairy and beef herd numbers at June 2005 to 2013

The total number of cattle and calves in the UK deceased slightly this year to 9.8 million head. The breeding herd decreased by 2.2% to 3.4 million in 2013. The long term downward trend in the beef and dairy herds continued with decreases of 2.8 and 1.6 respectivley (see figure 9). The main dairy and beef herds are made up of female cattle aged 2 years or more that have calved.

Although these changes have been largely consistent at a country level it is important to note that Scotland changed their methodology in 2013. More details of these changes can be found in the Scottish June release here:

http://www.scotland.gov.uk/Topics/Statistics/Browse/Agriculture-Fisheries/PubFinalResultsJuneCensus

Pigs

The total number of pigs in the UK increased by 8.2% between 2012 and 2013 from 4.5 to 4.8 million animals. This increase was due to a 9.4% rise in the number of fattening pigs which increased to 4.3 million in 2013. The largest increase (15%) was seen in the smaller fattening pigs (those weighing less than 20kg), however fattening pigs weighing 20kg and over also saw a large increase (7.0%)

The number of fattening pigs in England account for 84% of all UK fatteners. The English figure increased by 13% in 2013 and is largely responsible for the rise in the UK total.

Sheep

Sheep figures have remained almost constant in 2013 with 32 million sheep and lambs in the UK. The female breeding flock has seen a 1.5% increase to 15.5 million, this has been partially offset by the 1.0% decrease in lambs.

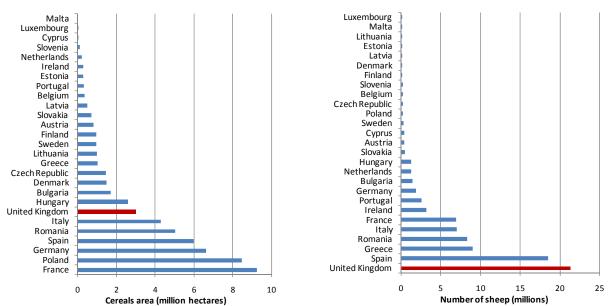
Comparisons to other EU countries

Data on livestock populations are collected each year under EU Regulation 1165/2008 (cattle, pigs and sheep) and 543/2009 (crops and land). Therefore, results can be compared across EU Member States. Data are available to search and download on the Eurostat website at http://epp.eurostat.ec.europa.eu/portal/page/portal/agriculture/data/main_tables.

According to the data from 2010, the UK is the 7th largest cereal producer, the largest producer of sheep and the 3rd largest producer of cattle of the EU 27 Member States. Figures 10 to 12 below show the comparison of these activities across all Member States.

Member State

Figure 10: Cereal areas in 2010 by EU Member State



(data in figure 11 refers to December 2010, not June 2010)

Source: Eurostat

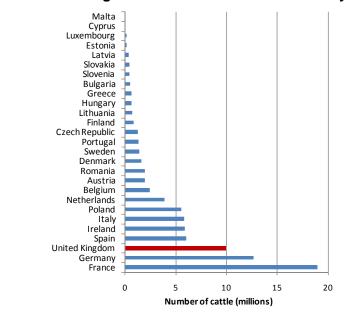


Figure 12: Number of cattle in 2010 by EU Member State

Figure 11: Number of sheep in 2010 by EU

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Results Tables

Table 1: Summary of land use on agric		ings on 1 Ju		and hectares
	2011	2012	2013	% change 2013-12
Utilised agricultural area ^(a)	17 172	17 190	17 264	0.4%
Total agricultural land (including common rough grazing)	18 263	18 349	18 454	0.6%
Common rough grazing	1 199	1 200	1 200	0.0%
Total area on agricultural holdings	17 064	17 149	17 254	0.6%
Total croppable area	6 106	6 258	6 310	0.8%
Total crops Arable crops Cereals Oilseeds Potatoes Other arable crops Horticultural crops Uncropped arable land ^(b) Temporary grass under 5 years old	4 673 4 497 3 075 742 146 534 175 156 1 278	4 748 4 576 3 142 785 149 500 172 153 1 357	4 672 4 508 3 042 754 140 573 163 255 1 383	-1.6% -1.5% -3.2% -4.0% -6.0% 14.5% -4.9% 66.3% 1.9%
Permanent grassland (incl. rough grazing) Grass over 5 years old Sole right rough grazing ^(c)	9 858 5 877 3 981	9 725 5 799 3 926	9 746 5 850 3 896	0.2% 0.9% -0.8%
Other land on agricultural holdings Woodland Land used for outdoor pigs All other non-agricultural land	1 100 786 9 305	1 166 827 7 332	1 199 865 9 324	2.8% 4.6% 23.0% -2.2%

Table 1: Summary of land use on agricultural holdings on 1 June

(a) Includes all arable and horticultural crops, uncropped arable land, common rough grazing, temporary and permanent grassland and land used for outdoor pigs (excludes woodland and other non-agricultural land).

(b) Includes all arable land not in production, including GAEC12 land, game strips, wild bird cover and game cover.

(c) Classified as mountains, hills, heathland or moorland.

Table 2. Area of arable crops of agricultural fic		•••••	Thousa	ind hectares
	2011	2012	2013	% change 2013-12
Total arable crops	4 497	4 576	4 508	-1.5%
Cereals	3 075	3 142	3 042	-3.2%
Wheat	1 969	1 992	1 626	-18.4%
Barley	970	1 002	1 214	21.2%
winter	359	385	313	-18.7%
spring	611	618	902	46.0%
Oats	109	122	176	44.6%
Minor cereals ^(a)	27	26	26	-1.9%
Oilseed crops	742	785	754	-4.0%
Oilseed rape	705	756	716	-5.2%
winter	680	744	622	-16.4%
spring	24	12	95	698.6%
Linseed	36	28	34	24.0%
Borage	1	1	3	81.9%
Potatoes	146	149	140	-6.0%
Other (non-horticultural) crops	534	500	573	14.5%
Sugar beet (not for stock feeding)	113	120	117	-2.6%
Field beans	125	96	119	23.9%
Peas for harvesting dry	30	24	29	19.7%
Maize (incl. fodder and grain maize)	164	158	196	24.1%
Root crops, brassicas and fodder beet for stock feeding	32	32	39	20.8%
Other crops for stock feeding ^(b)	37	38	38	0.9%
All other arable crops ^(c)	32	32	35	8.9%

Table 2: Area of arable crops on agricultural holdings on 1 June

(a) Minor cereals are a total of rye, mixed corn and triticale.

(b) Includes leguminous forage crops.

(c) Includes short rotation coppice, miscanthus and crops for aromatic or medicinal use.

	(ton	Yield nes per l		(tho	Production Dusand to	
	2012	2013	% change 2013-12	2012	2013	% change 2013-12
Total cereals ^(b)	6.2	6.7	7.4%	19 515	20 292	4.0%
Wheat	6.7	7.4	11.8%	13 261	12 101	-8.7%
Barley	5.5	5.8	6.2%	5 522	7 102	28.6%
winter	6.4	6.4	0.9%	2 456	2 014	-18.0%
spring	5.0	5.6	13.6%	3 066	5 088	65.9%
Oats	5.1	5.5	7.5%	627	975	55.4%
Minor cereals ^(c)	4.0	4.5	10.5%	105	114	8.4%
Oilseed rape ^(d)	3.4	3.0	-11.2%	2 557	2 153	-15.8%

Table 3: Yield and production of cereals and oilseed rape on agricultural holdings ^(a)

(a) Regional results for cereal and oilseed rape production are available on our website at:

https://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs/series/structure-of-the-agricultural-industry.

(b) All cereal production estimates have been standardised to 14.5% moisture content.

(c) Minor cereals are a total of rye, mixed corn and triticale.

(d) Oilseed rape production estimates have been standardised to 9% moisture content.

			Thousa	and hectares
	2011	2012	2013	% change 2013-12
Total fruit and vegetables	162	157	149	-5.0%
Orchards ^(a)	23.7	24.2	23.5	-2.9%
Small fruit ^{(b) (c) (d)}	9.7	9.3	9.6	2.7%
Strawberries	3.8	3.3	3.5	5.6%
Other small fruit (incl. gooseberries and blackberries)	5.9	6.1	6.1	0.9%
Vegetables and salad for human consumption ^{(b)(e)}	129	123	116	-6.0%
Peas and beans	39	37	37	0.7%
All other vegetables and salad	90	87	79	-8.9%

Table 4: Area of fruit and vegetables grown in the open on agricultural holdings on 1 June

(a) Includes both commercial and non-commercial. Commercial orchards are those from which growers intend to sell fruit.

(b) Due to the small areas grown, some UK countries do not collect data on individual crops in this category. For these countries the areas are included in this total estimate only. Therefore the total estimate does not always sum to the component parts.

(c) Small fruit includes crops grown in Spanish tunnels.

(d) A change in the way glasshouse and open field areas for small fruit were collected in Scotland resulted in a large shift between areas counted as open field and those counted as glasshouse or walk-in plastic structures between 2011 and 2012. More information can be found at http://www.scotland.gov.uk/Publications/2012/09/1148/4.

(e) These figures relate to land usage on 1 June and are not necessarily good indicators of annual production as more than one crop may be obtained in each season, a crop may overlap two seasons, or may be planted after 1 June.

			Thousa	and hectares
	2011	2012	2013	% change 2013-12
Total hardy nursery stock, bulbs and flowers ^(a)	11.3	12.3	11.9	-3.5%
Hardy nursery stock	6.0	6.1	5.8	-4.4%
Bulbs and flowers grown in the open	4.9	5.9	5.8	-2.8%

Table 5: Area of hardy nursery stock on agricultural holdings on 1 June

(a) Due to the small areas grown, some UK countries do not collect data on individual crops in this category. For these countries the areas are included in this total estimate only. Therefore the total estimate does not always sum to the component parts.

Table 6: Area of glasshouses and protected crops on agricultural holdings on 1 June (a) (b) (c)

				Hectares
	2011	2012	2013	% change 2013-12
Total glasshouse area on 1 June ^(d)	1 977	2 586	2 535	-2.0%
Vegetables, salad and fruit	1 147	1 717	1 779	3.6%
Flowers, foliage and other plants	606	601	590	-1.9%
Not in use on 1 June	187	234	132	-43.6%

(a) These figures relate to land usage on 1 June and are not necessarily good indicators of annual production as more than one crop may be obtained in each season, a crop may overlap two seasons, or may be planted after 1 June.

(b) 'Glasshouse' includes any fixed or mobile structure high enough to walk through, which is glazed or clad with film, rigid plastics or other glass substitutes. It excludes lights, low plastic tunnels, French and Spanish tunnels. These are reported as crops grown in the open (table 4).

(c) A change in the way glasshouse and open field areas for small fruit were collected in Scotland resulted in a large shift between areas counted as open field and those counted as glasshouse or walk-in plastic structures between 2011 and 2012. More information can be found at http://www.scotland.gov.uk/Publications/2012/09/1148/4.

(d) Due to the small areas grown, some UK countries do not collect data on individual crops in this category. For these countries the areas are included in this total estimate only. Therefore the total estimate does not always sum to the component parts.

			Thousands
2011	2012	2013	% change 2013-12
9 933	9 900	9 843	-0.6%
7 186	7 151	7 083	-1.0%
4 291	4 216	4 177	-0.9%
3 489	3 469	3 393	-2.2%
1 675	1 657	1 611	-2.8%
1 814	1 812	1 782	-1.6%
803	748	784	4.9%
404	370	397	7.5%
399	378	387	2.4%
1 378	1 398	1 414	1.1%
838	845	876	3.6%
541	553	538	-2.6%
1 517	1 537	1 492	-2.9%
981	991	938	-5.4%
536	546	554	1.5%
2 747	2 749	2 760	0.4%
376	360	384	6.8%
1 042	1 021	1 060	3.8%
1 330	1 369	1 316	-3.8%
	9 933 7 186 4 291 3 489 1 675 1 814 803 404 399 1 378 838 541 1 517 981 536 2 747 376 1 042	9 933 9 900 7 186 7 151 4 291 4 216 3 489 3 469 1 675 1 657 1 814 1 812 803 748 404 370 399 378 1 378 1 398 838 845 541 553 1 517 1 537 981 991 536 546 2 747 2 749 376 360 1 042 1 021	9 933 9 900 9 843 7 186 7 151 7 083 4 291 4 216 4 177 3 489 3 469 3 393 1 675 1 657 1 611 1 814 1 812 1 782 803 748 784 404 370 397 399 378 387 1 378 1 398 1 414 838 845 876 541 553 538 1 517 1 537 1 492 981 991 938 536 546 554 2 747 2 749 2 760 376 360 384 1 042 1 021 1 060

Table 7: Cattle and calves on agricultural holdings on 1 June (a) (b)

(a) These figures have been sourced from the Cattle Tracing System (CTS) in England and Wales, the equivalent APHIS system in Northern Ireland and June survey data in Scotland.

(b) From 2013 onwards Scotland changed the source of cattle figures from survey data to the cattle tracing system. More information about these changes can be found in the Scottish June release here:

http://www.scotland.gov.uk/Topics/Statistics/Browse/Agriculture-Fisheries/PubFinalResultsJuneCensus

				Thousands
	2011	2012	2013	% change 2013-12
Total pigs	4 441	4 481	4 848	8.2%
Breeding pigs	523	523	517	-1.2%
Female breeding herd	432	425	416	-2.1%
Sows in pig	279	293	281	-4.1%
Gilts in pig	70	69	65	-5.0%
Other sows ^(a)	83	64	70	10.2%
Other breeding pigs	92	98	100	2.5%
Boars being used for service	16	16	15	-6.6%
Gilts intended for first time breeding	75	82	85	4.3%
Fattening pigs (incl. barren sows)	3 917	3 958	4 331	9.4%
fat pigs >=20kg (including barren sows)	2 746	2 784	2 980	7.0%
under 20kg	1 171	1 173	1 351	15.2%

Table 8: Pigs on agricultural holdings on 1 June

(a) Either being suckled or dry sows being kept for further breeding.

Table 9: Sheep and lambs on agricultural holdings on 1 June

	•			Thousands
	2011	2012	2013	% change 2013-12
Total sheep and lambs	31 634	32 215	32 317	0.3%
Female breeding flock	14 868	15 229	15 458	1.5%
Ewes intended for further breeding or for slaughter	12 644	12 799	12 966	1.3%
Ewes intended for first time breeding	2 224	2 431	2 492	2.5%
Other sheep and lambs	16 765	16 985	16 859	-0.7%
Lambs under 1 year old	15 990	16 229	16 067	-1.0%
Rams	378	392	393	0.4%
Other sheep 1 year and over	398	364	399	9.6%

Table 10: Poultry on agricultural holdings on 1 June ^(a)

				Thousands
	2011	2012	2013	% change 2013-12
Total poultry	162 551	160 061	tba	
Total breeding and laying fowl	48 610	46 633	tba	
Hens and pullets laying eggs for eating	38 357	36 646	tba	
Breeding flock	10 253	9 987	tba	
Table chickens (broilers)	102 461	102 558	tba	
Other poultry	11 481	10 870	tba	
Ducks	2 367	2 294	tba	
Geese	111	92	tba	
Turkeys	3 930	3 747	tba	
All other poultry	5 072	4 737	tba	

tba: to be announced. Estimates for poultry numbers will be published on 19 December 2013. The table has been included here to show historic results only.

(a) Due to production cycles, subgroups within the poultry population are often volatile as the 'point in time' nature of the June Survey can lead to large variations in the numbers in each category.

Table 11: All other livestock on agricultural holdings on 1 June

% change 2013-12				
2013-12	2013	2012	2011	
	tba	466	459	Total other livestock
	tba	98	94	Goats
	tba	31	33	Farmed deer
	tba	315	313	Horses
	tba	21	19	Any livestock not recorded elsewhere ^(a)
	tba	14	13	- of which alpacas
	tba	2	1	- of which llamas
	tba tba tba tba	31 315 21 14	33 313 19	Farmed deer Horses Any livestock not recorded elsewhere ^(a) - of which alpacas

tba: to be announced. Estimates for other livestock numbers will be published on 19 December 2013. The table has been included here to show historic results only.

(a) Includes camelids, donkeys and mules.

		Number of people (thousands)		
	2011	2012	2013	% change 2013-12
Total number of people working on agricultural holdings	476	481	tba	
Farmers, partners, directors and spouses	299	298	tba	
Full time	141	141	tba	
Part time ^(a)	158	158	tba	
Salaried managers	11	11	tba	
Regular and casual workers	166	172	tba	
Regular workers	105	105	tba	
- Full time	65	65	tba	
- Part time ^(a)	41	41	tba	
Casual workers	67	67	tba	
- Male	48	48	tba	
- Female	19	19	tba	

Table 12: Number of people working on agricultural holdings on 1 June

tba: to be announced. Estimates for the agricultural workforce will be published on 19 December 2013. The table has been included here to show historic results only.

(a) Part time is defined as working less than 39 hours per week.

Data uses

Land

- Data on crop areas (both arable and horticultural) help us monitor the long term trends in cropping. Amongst many other things, this helps us assess the impacts of the abolition of formal set-aside.
- The data will enable us to assess how land areas vary across the UK regions and in different geographic areas (such as the Uplands, National Parks, River Basin Districts).
- The cereals and oilseed rape harvest estimates are heavily used by the cereals industry to monitor the availability of grain throughout the year.
- Any changes in the agricultural sector also affect people. For many, it is their livelihood and a way of life.

Livestock

- Data from the June Survey help us monitor changes in livestock populations over time and the effects of e.g. CAP reform on the industry.
- The numbers are also used to make forecasts of meat and milk production to inform industry of the availability of supply which affects prices.
- Livestock distributions across the UK help assess the risk of veterinary disease and to control outbreaks.
- The data are also used heavily in calculations of the greenhouse gas and ammonia emissions inventories.

Other survey results and publications

Results from all the Defra farming surveys can be viewed on the Defra website via the following link: <u>https://www.gov.uk/government/publications?publication filter option=statistics</u>. This also contains details of future publication dates.

The next Farming Statistics publications due from the June Survey of Agriculture and the Cereal and Oilseed Rape Production Survey are shown below. Please note that the publication dates are provisional and subject to change.

England Publications

• 31 October 2013: Farming Statistics final land use, livestock populations and agricultural workforce at 1 June 2013 – England.

UK Publications

• 19 December 2013: Farming Statistics final crop areas, yields, livestock populations and agricultural workforce at 1 June 2013 – United Kingdom.

More detailed results from the June Survey can be found at:

https://www.gov.uk/government/statistical-data-sets/structure-of-the-agricultural-industry-in-englandand-the-uk-at-june. This includes various time series of crop areas and livestock numbers dating back as early as 1866 and detailed geographical breakdowns of the results.

Methodology: June Survey of Agriculture and Horticulture

Data on crop areas and livestock populations are collected in the June Survey of Agriculture and Horticulture carried out by each of the UK agriculture departments. The methodology adopted by each country is below.

England

England results are the final results from the June Survey of Agriculture and Horticulture in 2013. This is historically a postal survey run annually. However in 2011, the survey was run predominantly online with an option for farmers to complete a paper form if they preferred. This method was repeated in 2012 and 2013 and is likely to continue for future years.

Approximately 50 thousand 'commercial' holdings were asked to complete the survey in 2013. Commercial holdings are defined as those with significant levels of farming activity, i.e. holdings with more than five hectares of agricultural land, one hectare of orchards, 0.5 hectares of vegetables or 0.1 hectares of protected crops, or more than 10 cows, 50 pigs, 20 sheep, 20 goats or 1,000 poultry.

Checks were carried out to ensure the sample was representative across farm size. The size of a farm is determined by its Standard Labour Requirement (SLR). In the SLR system, each livestock type and land-use has a theoretical amount of labour required each year. This value is multiplied by the land area or livestock numbers and then summed to give the SLR for the holding. The SLR represents the typical number of full time workers required on the holding.

The small farms (those with low SLRs) were sampled at a lower rate and the sampling rate increased with farm size as in table 4 below. This method minimises the burden on farmers whilst maximising the coverage. To improve the coverage of the pig and poultry sectors, a special data collection exercise was run to collect data from a central point for some of the largest companies.

Stratum	Description	Sampling rate (%)	Population size
1	SLR < 0.5	23	43 292
2	SLR >= 0.5 and < 1	56	14 681
3	SLR >= 1 and < 2	65	16 324
4	SLR >= 2 and < 3	71	9 052
5	SLR >= 3 and < 5	80	8 289
6	SLR >= 5	83	7 819
10	SLR unknown	32	5 176
All		48	104 633

Table 13: June 2013 sample design

The results in this statistical release are based on responses from just over 31 thousand commercial holdings, representing a response rate of 62%. English results for 2010 and 2011 are also based on commercial holdings only.

The data are subject to rigorous validation checks which identify inconsistencies within the data or large year-on-year changes. Any records that have not been cleaned by the results production stage are excluded from the analysis.

Population totals are estimated for each question on the survey to account for the non-sampled and non-responding holdings. This survey uses the technique known as ratio raising, in which the trend between the sample data and base data (previous year's data) is calculated for each stratum. The

calculated ratio is then applied to the previous year's population data to give England level estimates. For holdings where we do not have base data (new holdings or long-term non-responders) the sample estimates are raised according to the inverse sampling fraction.

Cattle results are sourced from the Cattle Tracing System (CTS). The data include returns from all holdings with cattle so are not subject to survey error. More information on the use of this administrative data can be found on the "About Farming Statistics" web page via the UK Bovine Registers link:

https://www.gov.uk/structure-of-the-agricultural-industry-survey-notes-and-guidance.

Final crop areas and cattle, sheep and pig populations from the England 2013 June Survey were published on 19 September 2013 and can be viewed on our website via the following link: <u>https://www.gov.uk/government/organisations/department-for-environment-food-rural-affairs/series/structure-of-the-agricultural-industry</u>.

More details on the June Survey methodology can be found at: <u>https://www.gov.uk/structure-of-the-agricultural-industry-survey-notes-and-guidance</u>.

Scotland

Data collection

The June Agricultural Census is conducted annually by the Scottish Government's Rural & Environment Science & Analytical Services (RESAS). Data for the June Census is collected from three sources:

- Land data extracted from the Single Application Form (SAF) database for around 24,400 holdings that are claiming Single Farm Payment (SFP). These data are accurate as farmers can face penalties for supplying incorrect data. A cut-down survey form is sent to 19,700 of these holdings so that additional data on livestock and labour can be collected.
- The remaining 11,700 holdings that needed to be surveyed in 2013 were sent a full census form covering land, livestock and labour.

There are around 52,700 agricultural holdings in Scotland. In 2013 a total of 32,400 holdings were surveyed with either a full or cut-down form. Results in this release are based on the 20,600 census forms that were returned and the information collated via the SAF database. Cattle data from the 2013 census has been obtained through the Cattle Tracing System (CTS), an administrative data source held by the British Cattle Movement Service (BCMS) which records cattle movements across Great Britain.

Table 14 over the page gives a breakdown for forms returned for each category of holding. In terms of area, returns were received for 93 per cent of land-use data (shaded grey), 100 per cent of cattle data, and 70 per cent of other data (the final column in the table).

Table 14. Survey responses by category

		number	selected ^(a)	returns ^(b)	area	selected ^(a)	returns ^(b)
Large/SAF		18 289	18 172	13 181	4 742 227	4 719 342	3 622 408
Large/ non-SAF	full	6 385	5 753	3 065	448 475	385 281	219 493
	part		272	137		28 183	7 109
Small/SAF		6 109	1 571	1 211	199 699	46 128	32 146
Small/ non-SAF	full	21 933	5 620	2 987	213 607	42 597	24 339
	part		72	36		3 083	2 427
Total		52 716	31 460	20 617	5 604 008	5 224614	3 907 923

(a) For large holdings the numbers selected are slightly lower than the total number eventually identified due to annual changes in the list of holdings.

(b) The return numbers quoted here relate to the number of survey forms received. For SAF holdings this masks the fact that we effectively receive 100 per cent response for all land items. Cattle data, from the CTS database, is also effectively 100 per cent complete. Response rates based on these figures therefore relate to other livestock and employment data.

Final results for Scotland were published on 09 October 2013 by the Scottish Government Rural and Environment Research and Analysis Directorate and are available at: <u>http://www.scotland.gov.uk/Topics/Statistics/Browse/Agriculture-Fisheries/PubFinalResultsJuneCensus</u>.

Contact details - Saughton House (Q Spur), Broomhouse Drive, Edinburgh, EH11 3XD (telephone: 0300 244 9709, email: <u>agric.stats@scotland.gsi.gov.uk</u>).

Wales

Wales do not produce provisional results for crop areas and livestock numbers so 2012 figures for Wales have been carried forward to allow UK totals to be calculated for 2013. Final results for Wales will be published by the Welsh Assembly Government in the winter of 2013 at: <u>www.wales.gov.uk/statistics</u>. The publication date has not been finalised. For further details contact the Statistical Directorate 6, Welsh Assembly Government, Cathays Park, Cardiff, CF1 3NQ (telephone: Cardiff (02920) 825082).

Northern Ireland

In 2013 the Northern Ireland Agricultural and Horticultural Survey was conducted as a sample survey. A total of 19,700 forms were sent out and provisional results were based on 7,100 returned forms. Data for the cattle section is a complete census as it is extracted from the APHIS cattle tracing database. Data for the pig section is also a complete census extracted from the Northern Ireland Annual Inventory of Pigs. Provisional results were published on 29 August 2013 by the Department of Agriculture and Rural Development for Northern Ireland, Dundonald House, Belfast, BT4 3SB (telephone: Belfast (02890) 525450) and are available on the internet at: www.dardni.gov.uk/statistical-bulletins. Final results will be published on 28 November 2013.

Methodology: Cereal and Oilseed Rape Production Survey

England

Cereals and Oilseed Rape yield and production estimates

Results are based on provisional results from the Cereal and Oilseed Rape Production Survey, a representative sample of cereal and oilseed rape growers across English regions and farm sizes. These provisional results are based on responses from 2,040 farms (58% response rate) across the country (see table 15).

English region	Number sampled	Number of responses	Response rate (%)
North East	160	68	43
North West and Merseyside	249	138	55
Yorkshire and the Humber	527	291	55
East Midlands	460	263	57
West Midlands	242	116	48
Eastern	894	561	63
South East and London	388	225	58
South West	594	378	64
Total	3 514	2 040	58

Table 15: Response rate for Cereal and Oilseed Rape Production Survey 2013 by region

The Cereal and Oilseed Rape Production Survey gathers data on production tonnages and moisture content for the various cereal and oilseed rape crops and seeks confirmation of the planted areas for these crops gathered from the June Survey of Agriculture and Horticulture. All moisture contents are standardised to ensure production estimates are comparable. Cereal production estimates are standardised to 14.5% moisture content and oilseed rape to 9% moisture content, with production tonnages being adjusted accordingly. These data are then used to calculate regional yield estimates for each crop type. Yield estimates are applied to regional June crop areas to derive England production estimates for each of the cereal and oilseed rape crops.

Wales

No yield data were collected for Wales. The Welsh production figures have been estimated on a regional basis within Wales using the final results of the June 2012 Survey along with the yields for the English regions bordering Wales.

Scotland

The 2013 estimates of production are based on final crop areas from the 2013 June Survey of Agriculture and Horticulture, along with crop yield estimates from Scottish Government Agricultural Staff, supplemented by discussions with industry experts and trade organisations.

Northern Ireland

Areas are based on final estimates from the 2013 June Survey of Agriculture and Horticulture. Production figures are based on yield estimates from the Department of Agriculture and Rural Development for Northern Ireland.

Data notes

The cereal production (tonnage) figures include tail corn, cereals still to be harvested for grain, grain to be crimped and cereals intended for seed production. The figures exclude crops which have become unfit for harvesting, carry over stocks from the 2012 harvest, bought in grain and crops harvested as wholecrop for silage.