SUPPLY AND DEMAND

19 September 2019

AHDB

SUMMARY OF REVISIONS

The tables below provide estimates of UK cereals supply and demand in the 2018/19 season (July – June). For the 2016/17 and 2017/18 wheat and barley end-season balance sheets, and the 2018/19 wheat and maize balance sheets, residuals have been identified after the full season official statistics were taken into account, stated in Appendix 1.

The **main revisions** from May's estimates and comparisons with the 2017/18 season are summarised below.

END-SEASON 2018/19 UK CEREAL SUPPLY AND DEMAND

WHEAT

- **Trade** – In 2018/19 the UK imported 1.858Mt of wheat, 128Kt higher than that forecast in May and 65Kt more than in 2017/18. Exports totalled 358Kt, 58Kt more than May's estimate, but 20% (90Kt) lower year on year.
- **Availability** – Total available supplies are estimated at 17.131Mt, 128Kt higher than May's estimate. However, compared with 2017/18 total availability is 7% (1.255Mt) lower.
- **Usage** – Full season domestic consumption is estimated at 14.718Mt relatively unchanged from May's estimates but 933Kt less than levels recorded in 2017/18. While animal feed demand is estimated to be lower (-111Kt), the majority of the decline is driven by a fall (-816Kt) in human and industrial (H&I) consumption.
- **Closing stocks** – Commercial end-season stocks are estimated at 1.911Mt for 2018/19, 73Kt lower than May's forecast, but 193Kt higher than levels recorded in 2017/18.

BARLEY

- **Trade** – At 70Kt, full season barley imports are 10Kt less than May's estimates and 35Kt lower year on year. Exports of barley in 2018/19 are 47Kt down on that forecast in May and 22% (238Kt) lower on levels recorded in 2017/18.
- **Availability** – Total available supplies of barley are estimated at 7.657Mt, relatively unchanged (-10Kt) from May's estimate, but 9% (722Kt) lower year on year.
- **Usage** – Domestic consumption of barley is estimated at 5.703Mt, just 8Kt lower than May's forecast, but 444Kt down on 2017/18 levels. While H&I consumption recorded a slight rise on the year, animal feed usage is estimated to have decreased.
- **Closing stocks** – At 1.091Mt, commercial end-season stocks are 46Kt higher than previous estimates and 1% (15Kt) higher year on year.

OATS

- **Trade** – Imports of oats reached 32Kt, relatively unchanged from May's estimates, but 13Kt higher year on year. Full season exports are 37Kt, unchanged from previous forecasts, but 9Kt more than in 2017/18.
- **Availability** – At 1.020Mt, total availability of oats is unchanged from May's estimate, but 16Kt up on the year.
- **Usage** – Total domestic consumption of oats is estimated at 867Kt, 25Kt more than previous forecasts and 30Kt higher year on year. H&I oat usage remains relatively unchanged on the year, while animal feed demand is 11% higher than in 2017/18.
- **Closing stocks** – End-season stocks of oats are estimated at 116Kt, 24Kt less than the previous estimate and 22Kt down year on year.

MAIZE

- **Trade** – In 2018/19 maize imports totalled 2.822Mt, 332Kt higher than May's estimate, 798Kt more than levels recorded in 2017/18, and the highest level on record.
- **Availability** – At 3.069Mt, total availability of maize for the season is 332Kt more than previous estimates and 774Kt higher year on year.
- **Usage** – Full season domestic consumption of maize is estimated at 2.421Mt, 124Kt higher than Mays estimate, and 544Kt up on the year. H&I usage of maize is 24% higher and animal feed demand is 31% more compared with 2017/18.
- **Closing stocks** – Commercial end-season stocks of maize are estimated to be 46Kt higher than previous forecasts and 66Kt more than end-June 2018 at 313Kt.

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Appendix I

UK CEREAL SUPPLY AND DEMAND ESTIMATES (a)

Estimates made in September

(JULY - JUNE YEARS)

Links connect to relevant Defra/AHDB data pages *Thousand tonnes*

		WHEAT								BARLEY							
		2013/14 2017/18 average	**2015/16 estimate****	**2016/17 estimate**	**2017/18 estimate**	**2018/19 May-19**	**2018/19 Sep-19**	**Absolute change May-19**	**% change on 17/18**	**2013/14 2017/18 average**	**2015/16 estimate**	**2016/17 estimate**	**2017/18 estimate**	**2018/19 May-19**	**2018/19 Sep-19**	**Absolute change May-19**	**% change on 17/18**
(1)	Opening Stocks	2,144	2,434	2,787	1,755	1,718	1,718	-	-2%	1,269	1,497	1,367	1,105	1,076	1,076	-	-3%
(2)	Production	14,779	16,506	14,383	14,837	13,555	13,555	-	-9%	7,039	7,370	6,655	7,169	6,510	6,510	-	-9%
(3)	Imports	1,804	1,509	1,855	1,793	1,730	1,858	128	4%	122	159	106	105	80	70	-10	-33%
(4)	**Total Availability**	**18,727**	**20,449**	**19,025**	**18,386**	**17,003**	**17,131**	**128**	-7%	**8,430**	**9,026**	**8,128**	**8,379**	**7,666**	**7,657**	**-10**	-9%
(5)	Human and Industrial Consumption (b)	7,711	7,360	8,110	7,792	6,996	6,976	-20	-10%	1,897	1,833	1,863	1,881	1,903	1,903	-	1%
(5a)	(of which home grown)	6,580	6,416	7,169	6,765	5,968	5,923	-45	-12%	n/a	n/a	n/a	n/a	n/a	n/a	*	*
(6)	Usage as Animal Feed (c)	7,042	7,094	7,236	7,514	7,384	7,403	19	-1%	3,617	3,613	3,655	4,046	3,592	3,584	-8	-11%
(6a)	(of which home grown)	6,357	6,444	6,523	6,792	6,636	6,653	17	-2%	n/a	n/a	n/a	n/a	n/a	n/a	*	*
(6b)	(of which Compounders)	3,825	3,845	4,034	4,232	4,144	4,166	22	-2%	1,153	1,108	1,132	1,278	1,182	1,203	21	-6%
(6c)	(of which Integrated Poultry Units)	1,297	1,210	1,211	1,241	1,158	1,155	-3	-7%	59	49	53	59	48	50	2	-15%
(7)	Seed (d)	283	281	278	271	271	271	-	0%	179	182	189	183	183	183	-	0%
(8)	Other	76	79	72	74	68	68	-	-8%	35	37	33	36	33	33	-	-8%
(9)	**Total Domestic Consumption**	**15,111**	**14,814**	**15,696**	**15,651**	**14,719**	**14,718**	**-1**	-6%	**5,728**	**5,665**	**5,740**	**6,147**	**5,711**	**5,703**	**-8**	-7%
(10)	**Balance (4) - (9)**	**3,616**	**5,635**	**3,329**	**2,735**	**2,284**	**2,413**	**129**	-12%	**2,702**	**3,361**	**2,388**	**2,232**	**1,955**	**1,954**	**-1**	-12%
(11)	Exports (e)	1,425	2,848	1,438	448	300	358	58	-20%	1,355	1,994	1,026	1,101	910	863	-47	-22%
(12)	Intervention Stocks (e)	-	-	-	-	-	-		*	-	-	-	-	-	-	*	*
(13)	**Commercial End-Season Stocks (e)**	**2,051**	**2,787**	**1,755**	**1,718**	**1,984**	**1,911**	**-73**	11%	**1,285**	**1,367**	**1,105**	**1,076**	**1,045**	**1,091**	**46**	1%
(14)	(of which Estimated Operating stock requirement) (f)	1,522	1,500	1,560	1,600	1,550	1,550	-	-3%	751	760	760	770	780	780	-	1%
(15)	(of which free stock) (g)	529	1,287	195	118	434	361	-73	206%	534	607	345	306	265	311	46	2%
(16)	Surplus available for either export or free stock (10)-(12)-(14)-(17)	**1,954**	**4,135**	**1,633**	**567**	**734**	**720**	**-14**	27%	**1,889**	**2,601**	**1,371**	**1,408**	**1,175**	**1,174**	**-1**	-17%
(17)	Residual (10)-(11)-(13)			***136***	***568***		***144***					***257***	***54***				

		MAIZE								OATS							
		2013/14 2017/18 average	**2015/16 estimate****	**2016/17 estimate**	**2017/18 estimate**	**2018/19 May-19**	**2018/19 Sep-19**	**Absolute change May-19**	**% change on 17/18**	**2013/14 2017/18 average**	**2015/16 estimate**	**2016/17 estimate**	**2017/18 estimate**	**2018/19 May-19**	**2018/19 Sep-19**	**Absolute change May-19**	**% change on 17/18**
(1)	Opening Stocks	241	309	148	271	247	247	-	-9%	109	107	93	110	138	138	-	25%
(2)	Production	-	-	-	-	-	-	*	*	855	799	816	875	850	850	-	-3%
(3)	Imports	1,993	1,742	2,007	2,024	2,490	2,822	332	39%	35	39	32	19	32	32	-	69%
(4)	**Total Availability**	**2,233**	**2,051**	**2,155**	**2,295**	**2,737**	**3,069**	**332**	34%	**999**	**945**	**941**	**1,004**	**1,020**	**1,020**	**-**	2%
(5)	Human and Industrial Consumption (b)	585	465	570	643	777	800	23	24%	517	525	521	537	535	536	1	0%
(5a)	(of which home grown)	-	-	-	-	-	-	-	*	482	499	476	519	503	500	-3	-4%
(6)	Usage as Animal Feed (c)	1,244	1,310	1,135	1,230	1,516	1,617	101	31%	289	239	263	273	280	303	24	11%
(6a)	(of which home grown)	-	-	-	-	-	-	*	*	289	239	263	273	280	303	24	11%
(7)	Seed	-	-	-	-	-	-	*	*	21	19	23	24	24	24	-	0%
(8)	Other (h)	5	9	4	4	4	4	-	0%	4	4	4	4	4	4	-	0%
(9)	**Total Domestic Consumption**	**1,833**	**1,784**	**1,709**	**1,877**	**2,297**	**2,421**	**124**	29%	**831**	**787**	**811**	**837**	**843**	**867**	**24**	4%
(10)	**Balance (4) - (9)**	**400**	**267**	**446**	**418**	**440**	**648**	**208**	55%	**168**	**158**	**130**	**166**	**177**	**153**	**-24**	-8%
(11)	Exportable surplus	153	120	175	171	173	188	15	10%	45	65	21	28	37	37	-	30%
(12)	Commercial End-Season Stocks	**247**	**148**	**271**	**247**	**267**	**313**	**46**	27%	**123**	**93**	**110**	**138**	**140**	**116**	**-24**	-16%
(13)	Residual (10)-(11)-(12)						***147***										

Due to rounding, totals may not agree with the sum of individual items

(a) These are revised during the year. Figures rounded to the nearest 1000 tonnes.

(b) Defra updated the registry for the UK flour millers survey in spring 2016, the wheat H&I usage has been adjusted to take account of this change.

(c) Animal feed usage has been split by sector. Note, other users are only included in the total.

(d) Seed numbers have been updated based on a number of assumptions, calculated for the purposes of the Balance Sheet only.

(e) Split of exports, intervention and total commercial end-season stocks only published for historical seasons.

(f) Estimated Operating Stocks Requirement is a calculated estimate of the minimum tonnage that users of grain require to get through to a point at which new crop can be utilised.

(g) Free stock is the stock available after both exports and estimated operating stock requirements have been fulfilled.

(h) 2014/15 new format: Maize demand in "Other food use" has been added to the H&I total for maize. This was previously included in the "Other" category.

** Change not meaningful*

*** These Balance Sheets have been adjusted as per Defra's reliability allocation method*

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		OTHER CEREALS *(i)*							
		2013/14 2017/18 average	**2015/16 estimate**	**2016/17 estimate**	**2017/18 estimate**	**2018/19 May-19**	**2018/19 Sep-19**	**Absolute change May-19**	**% change on 17/18**
(1)	Opening Stocks	5	5	5	5	5	5	-	0%
(2)	Production	118	121	110	119	169	169	-	42%
(3)	Imports	3	3	3	4	4	3	-1	-33%
(4)	**Total Availability**	**125**	**129**	**118**	**129**	**179**	**177**	**-2**	38%
(5+6)	H&I and Animal Feed	117	121	110	121	170	169	-1	40%
(5a+6a)	(of which home grown)	115	118	107	116	166	166	-	43%
(7)	Seed	3	3	3	3	3	3	-	0%
(8)	Other	-	-	-	-	-	-	-	*
(9)	**Total Domestic Consumption**	**120**	**124**	**113**	**124**	**173**	**172**	**-1**	39%
(10)	**Balance (4) - (9)**	**5**	**5**	**5**	**5**	**5**	**5**	**-**	6%
(11)	Exportable surplus	-	-	-	-	-	-	-	*
(12)	Intervention Stocks	-	-	-	-	-	-	-	*
(13)	**Commercial End-Season Stocks**	**5**	**5**	**5**	**5**	**5**	**5**	**-**	0%

		TOTAL CEREALS							
		2013/14 2017/18 average	**2015/16 estimate****	**2016/17 estimate**	**2017/18 estimate**	**2018/19 May-19**	**2018/19 Sep-19**	**Absolute change May-19**	**% change on 17/18**
(1)	Opening Stocks	3,768	4,352	4,400	3,247	3,184	3,184	-	-2%
(2)	Production	22,791	24,796	21,964	22,999	21,085	21,085	-	-8%
(3)	Imports	3,955	3,452	4,003	3,945	4,336	4,785	450	21%
(4)	**Total Availability**	**30,515**	**32,600**	**30,366**	**30,191**	**28,604**	**29,054**	**450**	-4%
(5)	H&I (wheat, barley, maize, oats) (h)	10,709	10,183	11,064	10,853	10,211	10,215	4	-6%
(6)	Animal Feed (wheat, barley, maize oats) (h)	12,191	12,256	12,288	13,064	12,771	12,908	136	-1%
(5a +6a)	Other cereals (H&I and Animal Feed)	117	121	110	121	170	169	-1	40%
(7)	Seed	485	485	493	481	481	481	-	0%
(8)	Other	120	129	113	118	109	109	-	-8%
(9)	**Total Domestic Consumption**	**23,623**	**23,174**	**24,068**	**24,637**	**23,743**	**23,881**	**139**	-3%
(10)	**Balance (4) - (9)**	**6,891**	**9,426**	**6,298**	**5,554**	**4,862**	**5,173**	**311**	-7%
(11)	Exports	2,979	5,027	2,660	1,749	1,420	1,446	26	-17%
(12)	Intervention Stocks	-	-	-	-	-	-	-	*
(13)	**Commercial End-Season Stocks**	**3,710**	**4,400**	**3,247**	**3,184**	**3,442**	**3,437**	-5	8%
(14)	Estimated Operating stock requirement (wheat & barley only)	2,273	2,260	2,320	2,370	2,330	2,330	-	-2%
(15)	Free stock for wheat and barley	1,063	1,894	541	424	700	673	-27	58%
(16)	Surplus available for either export or free stock (all)	**4,041**	**7,167**	**3,587**	**2,563**	**2,532**	**2,553**	**21**	0%
(17)	Residual (10)-(11)-(13)			***392***	***622***		***290***		

Due to rounding, totals may not agree with the sum of individual items ***Source: AHDB; Defra***

(i) Includes mainly rye, triticale and mixed grain.

*** These Balance Sheets have been adjusted as per Defra's reliability allocation method*

Appendix II

CUMULATIVE MONTHLY STATISTICS

Usage of cereals by processors, external trade and stocks

Situation as at end of June 2019 ***Thousand tonnes***

				2013/14 to 2017/18 Average	2012/13 52 weeks	2013/14 52 weeks	2014/15 52 weeks	2015/16 52 weeks	2016/17 52 weeks	2017/18 52 weeks	2018/19 52 weeks	% Change 2018/19 on 2017/18	Actual Change 2018/19 on 2017/18
WHEAT													
Usage	Human and Industrial	-Flour Millers†	*-imported*	*1102*	*1794*	*1439*	*1168*	*935*	*941*	*1027*	*1053*	*2%*	*25*
			-home-grown	*5675*	*4787*	*4957*	*5675*	*5616*	*6308*	*5820*	*5038*	*-13%*	*-782*
			-Total	*6777*	*6581*	*6396*	*6843*	*6551*	*7249*	*6847*	*6091*	*-11%*	*-756*
		-Distillers		*745*	*818*	*815*	*773*	*649*	*696*	*794*	*722*	*-9%*	*-72*
	Animal Feed Processors (a)			*3296*	*3086*	*2875*	*3099*	*3353*	*3488*	*3665*	*3586*	*-2%*	*-79*
	Poultry Integrated Units			*1294*	*1505*	*1381*	*1420*	*1215*	*1211*	*1241*	*1155*	*-7%*	*-86*
Imports	From July (b)			*1796*	*2920*	*2205*	*1632*	*1496*	*1855*	*1793*	*1858*	*4%*	*65*
Exports	From July (b)			*1420*	*734*	*431*	*1947*	*2839*	*1438*	*448*	*358*	*-20%*	*-90*
	Intervention	-Actual		*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*	*
		-Projected		*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*	*
BARLEY													
Usage	Maltsters/Distillers		*-imported*	-	-	-	-	-	-	-	-	-	-
			-home-grown	-	-	-	-	-	-	-	-	-	-
			-Total	*1860*	*1832*	*1902*	*1862*	*1821*	*1851*	*1866*	*1891*	*1%*	*26*
	Animal Feed Processors (a)			*1021*	*880*	*1048*	*953*	*986*	*995*	*1126*	*1012*	*-10%*	*-114*
	Poultry Integrated Units			*59*	*70*	*86*	*47*	*49*	*53*	*59*	*50*	*-15%*	*-9*
Imports	From July (b)			*107*	*220*	*92*	*110*	*125*	*106*	*105*	*70*	*-33%*	*-35*
Exports	From July (b)			*1349*	*393*	*1158*	*1494*	*1964*	*1026*	*1101*	*863*	*-22%*	*-238*
	Intervention	-Actual		*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*	*
		-Projected		*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*	*
MAIZE													
Usage	Human and Industrial			*414*	*308*	*375*	*447*	*322*	*396*	*528*	**	*	*
	Animal Feed Processors (a)			*298*	*238*	*361*	*281*	*276*	*266*	*305*	*594*	*95%*	*289*
Imports	From July (b)			*1983*	*1636*	*2365*	*1847*	*1674*	*2007*	*2024*	*2822*	*39%*	*798*
Exports	From July (b)			*152*	*59*	*197*	*107*	*111*	*175*	*171*	*183*	*7%*	*12*
OATS													
Usage	Human and Industrial Processors			*517*	*492*	*508*	*492*	*526*	*521*	*537*	*536*	*0%*	*-1*
	Animal Feed Processors (a)			*72*	*78*	*118*	*95*	*52*	*40*	*58*	*64*	*11%*	*7*
Imports	From July (b)			*31*	*66*	*41*	*30*	*31*	*32*	*19*	*32*	*69%*	*13*
Exports	From July (b)			*45*	*13*	*36*	*77*	*63*	*21*	*28*	*37*	*30%*	*9*

Source: AHDB, Defra, HMRC

(a) Great Britain only.
(b) HMRC
** Changes not meaningful*
***Insufficient sample to produce robust figure*
† Includes bioethanol and starch usage

Footnotes:
Due to rounding, totals may not agree with the sum of the individual items.
There are 53 weeks in the Statistical year 2016. In order to incorporate the change April 16 was increased to a 5 week period compared to 4 weeks in 2015.
Figures in Appendix II were updated on 19 September 2019. The data above may differ from the most recent published data.