



# **Feed Outlook**

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# Record Yield Projected for 2018/19 Corn Crop

The first survey-based yield forecast for the 2018/19 corn crop indicates a yield gain of 4.4 bushels per acre to a record 178.4 bushels, compared with a weather-adjusted trend yield. If realized, this would produce a crop of 14.6 billion bushels from the forecast 81.8 million acres to be harvested, 356 million bushels over last month's forecast. Feed and residual is projected 100 million bushels over last month at 5.5 billion bushels due to the larger crop, lower expected prices, and higher forecast livestock production for all categories. Corn exports are projected 125 million bushels higher than last month at 2.4 billion, with prospects improved due to increased U.S. competitiveness and reduced competition from Brazil. The increases in supply and demand result in ending stocks of 1.7 billion bushels. The season-average price received by farmers is projected down \$0.20 per bushel to \$3.60.

European weather conditions result in significant revisions down for the production of corn and wheat in 2018/19. The U.S. production increases offset these European reductions for now, backfilling global supplies of coarse grains. As a result of the large U.S. supply of corn, global feeding is increased over last month, especially in Europe, where some of this corn is replacing its own wheat and corn production. Coarse grain trade is shifted as a result of the changing production environment, with the United States increasing shipments along with Ukraine. These increases contribute to a net positive increase in trade for the October-September 2018/19 year.

# **Domestic Outlook**

# U.S. Feed Grain Supplies Raised

U.S. feed grain supplies are raised 9.8 million metric tons this month as higher yields for corn, sorghum, and barley boosted production by 9.6 million tons. With carryin up a quarter million tons, supply is projected at 433.0 million tons, 5.9 million below 2017/18. Projected feed grain use is raised 6.4 million tons this month to 396.6 million, 2.9 million below 2017/18. Feed and residual is raised 2.3 million tons while food, seed, and industrial (FSI) is raised 2.8 million tons to 199.2 million due to greater sorghum grind for ethanol as foreign demand for sorghum wanes. Exports are raised 3.2 million tons to 64.3 million due to improved prospects for U.S. corn exports. Resulting ending stocks are projected 3.5 million tons lower at 46.5 million, which is 8.8 million below 2017/18.

For 2017/18, feed grain use is projected 0.3 million tons lower than last month at 393.7 million due to 0.3 million in increased sorghum ethanol grind offset by a 0.5-million-ton decline in sorghum exports. As a result, carryout is raised 0.3 million tons this month to 46.5 million.

## Grain Consuming Animal Units

Grain consuming animal units (GCAU) for 2018/19 are projected at 100.5 million units, up incrementally from last month's 100.2 million and 1.5 million units over last year. Compared with last month, dairy cows, cattle on feed, and poultry contributed to the increase. Feed and residual use is projected at 1.47 tons per GCAU, 0.02 tons higher than last month and 0.02 million below 2017/18.

### Feed and Residual Use

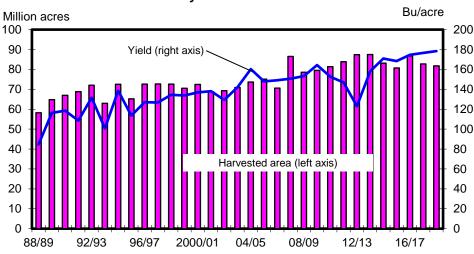
Feed and residual use for the four feed grains (corn, sorghum, barley, and oats) and wheat, on a September-August marketing year basis, for 2018/19 is projected at 148.0 million metric tons, 0.3 million above last month's projection of 145.7 million and 4.5 million over the 143.5 million for 2017/18. Increased corn feeding combined with a reduction in wheat feeding accounted for the change from last month.

# Projected 2018/19 Corn Yield Sets Record

USDA's National Agricultural Statistics Service (NASS) first survey-based yield forecast of the 2018/19 corn crop reported a yield gain of 4.4 bushels per acre to a record 178.4 bushels. If realized, this would produce a crop of 14,586 million bushels from the forecast 81.8 million acres to be harvested, 356 million over last month's forecast. This yield unseats the previous high of 176.6 million bushels in 2018/18. NASS's August 10 *Crop Production* report indicates higher yields in 2018/19 for Illinois, Indiana, Nebraska, Ohio, North Dakota, and South Dakota and lower yields for Missouri and Minnesota.





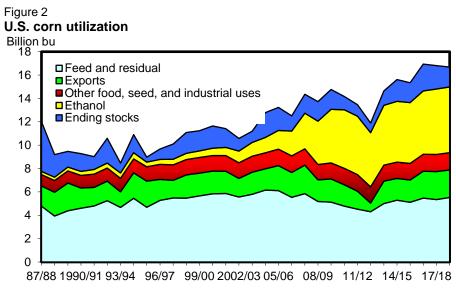


Sources: USDA, National Agricultural Statistics Service, *QuickStats* and USDA, World Agricultural Outlook Board, *Crop Projections, 2018.* 

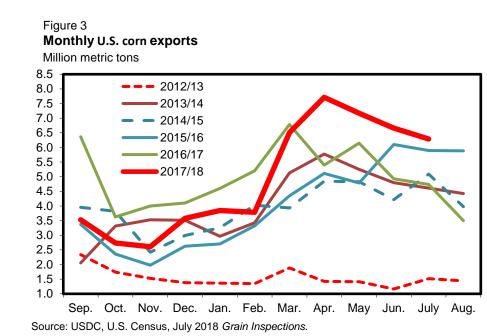
Supplies are projected at 16.664 million bushels with beginning stocks and imports unchanged at 2,027 million and 50 million bushels, respectively. Once again this month, supplies are projected the third highest ever, after 2016 and 2017.

Feed and residual is projected 100 million bushels over last month at 5,525 million due to the larger crop, lower expected prices, and higher forecast livestock production for all categories. Exports are projected 125 million bushels higher than last month at 2,350 million, with prospects improved due to increased U.S. competiveness and reduced competition from Brazil. FSI use is unchanged from last month's forecast, leaving projected disappearance at 14,980 million bushels, 225 million higher than last month's projection and 120 million over 2017/18.

Resulting ending stocks are projected at 1,684 million bushels, 131 million over last month's projection. The stocks-to-use ratio of 11.2 indicates some easing of supply constraints



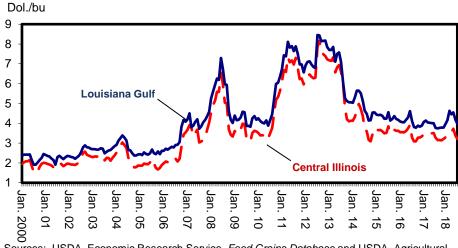
Note: Marketing year 2018/19 is projected. Source: USDA, World Agricultural Outlook Board, WASDE.



### 2018/19 Corn Price Projected 20 Cents Per Bushel Lower

The projected average price for corn received by farmers for 2018/19 is lowered \$0.20 on each end for a range of \$3.10 to \$4.10 per bushel for a midpoint price of \$3.60 per bushel, based on higher carryout. For 2017/18, the range is narrowed \$0.05 on each end to \$3.35 to \$3.45, leaving the midpoint unchanged at \$3.40 per bushel.

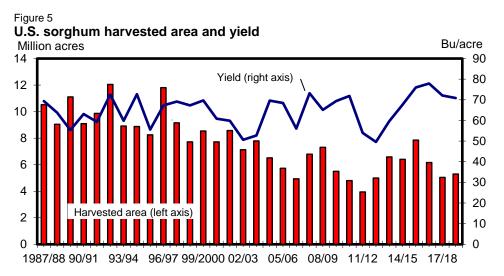




Sources: USDA, Economic Research Service, *Feed Grains Database* and USDA, Agricultural Marketing Service, http://marketnews.usda.gov/portal/lg.

### Sorghum: Use Down in 2017/18, Increasing Ending Stocks

Production estimates for U.S. sorghum remain unchanged for the 2017/18 crop year at 363.8 million bushels, with 5.6 million acres dedicated to sorghum production and an expected yield of 72.1 bushels per acre. Sorghum FSI use is revised upward by 10.0 million bushels. This change is due to a 10.0-million-bushel increase in the sorghum use for ethanol fuel production. Additionally, exports are revised downward by 20.0 million bushels from 230.0 million to 210.0 million. This change is based on the lack of reported exports in recent months. Ending stocks are revised up by 10.0 million bushels in the 2017/18 trade year.

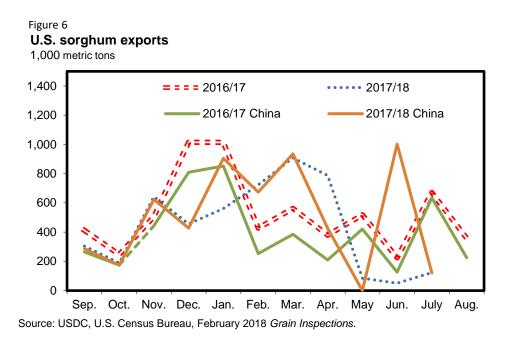


Sources: USDA, National Agricultural Statistics Service, *Quick Stats* and USDA, World Agricultural Outlook Board, *WASDE*.

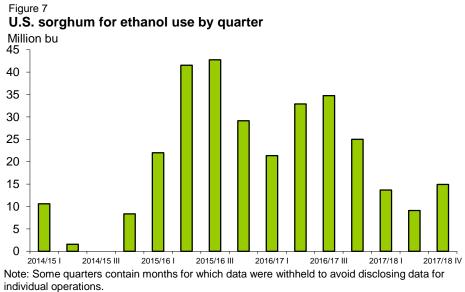
# Sorghum: Yield Projected Higher

NASS's first survey-based yield forecast of the 2018/19 sorghum crop reported a yield gain of 3.6 bushels per acre, compared with the trend yield to 70.9 bushels. If realized, this would produce a crop of 375.4 million bushels from the forecast 2.1 million acres harvested, 19.4 million over last month's forecast. NASS's August 10 *Crop Production* report indicates higher yields in 2018/19 (compared with 2017/18) for Kansas, Arkansas, Mississippi, Nebraska, South Dakota and lower yields for Texas, Colorado, Louisiana, Missouri, and Oklahoma.

Total supply is projected 29.4 million bushels higher to 419.7 million bushels, given the production increase and a 10-million-bushel increase in beginning stocks.

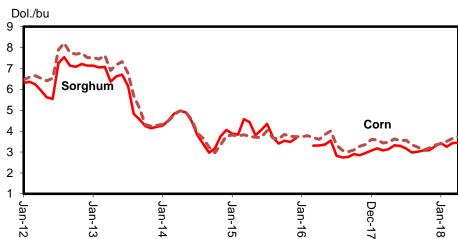


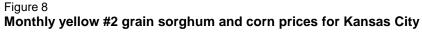
Total projected use is revised upward by 25.0 million bushels for the 2018/19 marketing year. The change this month is due to a 25-million-bushel increase in sorghum FSI use based on larger sorghum grind for ethanol, given expectations of reduced shipments to China.



Source: USDA, National Agricultural Statistics Service, *Grains Crushings and Co-Products. Production.* 

Projected ending stocks are 39.7 million bushels, 4.4 million greater than last month's forecast. The projected average price for sorghum received by farmers for 2018/19 is lowered \$0.20 on each end for a range of \$2.90 to \$3.90 per bushel for a midpoint price of \$3.40 per bushel, based on higher carryout. For 2017/18, the range is unchanged at \$3.15 to \$3.25, with the midpoint unchanged at \$3.20 per bushel.



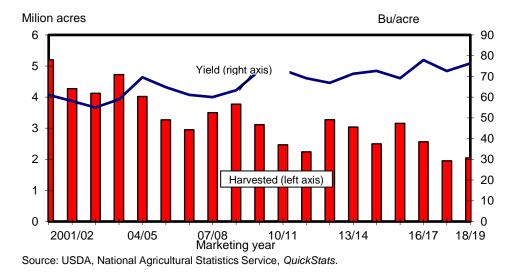


Sources: USDA, Economic Research Service, *Feed Grains Database* and USDA, Agricultural Marketing Service, http://marketnews.usda.gov/portal/lg.

# Barley Yield Projected Higher

NASS's *Crop Production* reports a projected barley yield of 76.3 bushels per acre, 0.7 bushels higher than last month and 3.7 bushels higher than last year. If realized, this would produce a crop of 156.2 million bushels. Combined with carryin of 94.7 million bushels and imports pegged at 20 million, supplies are projected at 270.9 million bushels, 1.6 million higher than last month's forecast.

#### Figure 9 U.S. barley harvested acres and yields



Compared with last month's forecast, yields were higher in California, Idaho, and Virginia. Yields fell in California, Montana, North Dakota, and Wyoming. Arizona and Minnesota saw no change. The largest barley-producing States are Idaho, Montana, and North Dakota. There were no changes to the 2017/18 balance sheet.

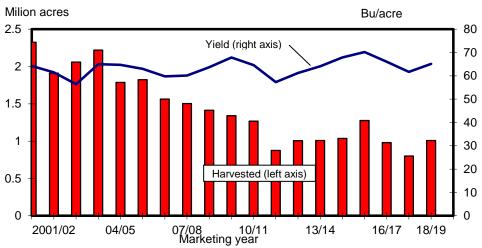
The season-average farm price is is projected with a range of \$4.00 to \$5.20 per bushel and a midpoint of \$4.60 per bushel, unchanged from last month.

## Projected Oats Yield Lowered

NASS's *Crop Production* reports a projected oats yield of 65.1 bushels per acre, 0.7 bushels below the July projection. If realized, this would produce a crop of 65.7 million bushels, 0.7 below last month's expectations. Projected oats supplies are lowered by the same amount to 201.7 million bushels, 12.6 higher than 2017/18. With no changes in the use categories, the balance sheet ends down 0.7 million bushels at 40.7 million, not enough of a change to affect

the projected season average price received by farmers, which ranges from \$2.40 to \$3.10 per bushel with a midpoint of \$2.80, unchanged from last month's forecast.

South Dakota, Minnesota, and North Dakota are the largest oats-producing States. Compared with July, yields increased in South Dakota and North Dakota and were steady in Minnesota.



#### Figure 10 U.S. oats harvested acres and yields

Source: USDA, National Agricultural Statistics Service, QuickStats.

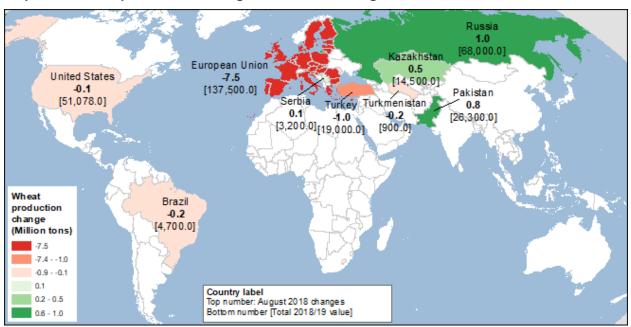
# **International Outlook**

## EU's Production Declines Offset by U.S. Gains

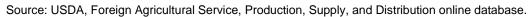
World coarse grain production in 2018/19 has several sizable adjustments this month, with a large increase in 2018/19 production of 5.2 million tons. Much of this is driven by a 9.6-million-ton increase in U.S. production due to favorable growing conditions and a projected record corn yield, offset by a 4.2-million-ton projected decline in EU coarse grain production. Additionally, Zambia has experienced poor growing conditions, leading to projected production declines of 1.1 million tons; however, elsewhere in Africa, Zimbabwe has a production increase of 0.7 million tons. Production in 2017/18 is only fractionally revised, mostly due to new data becoming available in Brazil and other countries.

Most of the changes this month in projected world coarse grain production for 2018/19 are driven by unusually high temperatures and a lack of rainfall leading to a production decreases in Germany and France, reflected in the EU's production decrease of 4.2 million tons over last month. The EU is now expected to produce 150.4 million tons of coarse grains, down from 154.7 million last month. However, the EU can be thought of as a tale of two regions, with the west (Germany and France) performing poorly, while at the same time, projections for several countries in the east are adjusted higher this month over last month, especially Ukraine due to favorable growing conditions. Similarly positive growing conditions were experienced in Serbia. Additionally, wheat production in the EU has been cut by 7.5 million tons for the 2018/19 trade year due to the same dry and hot conditions. In addition to the EU, Brazil is projected to see a decrease in corn production for the second-season crop due to a smaller projected area, although the area is still expected to be up year over year. The United States, however, more than reverses world losses with a 9.6-million-ton increase in its production alone, making projected global production of coarse grains for the 2018/19 season up 5.2 million tons to 1,342.1 million for the trade year.

For projected 2017/18 production of coarse grains, marginal adjustments down are made by 0.7 million tons. The majority of this decrease is due to new data coming from Brazil's Companhia Nacional de Abastecimento (CONAB), which showed a 0.5-million-ton decrease in the country's 2017/18 corn production.



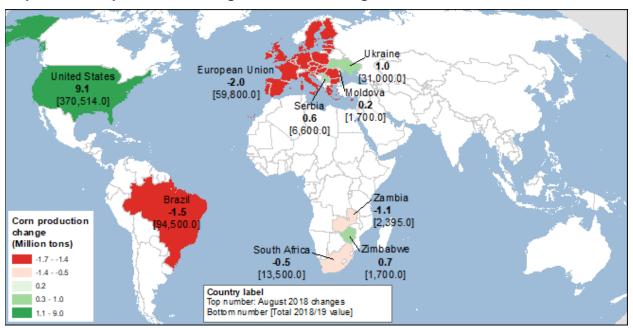
### Map A1 – Wheat production changes for 2018/19, August 2018



### Coarse Grain Use Increases Driven by U.S. Gains

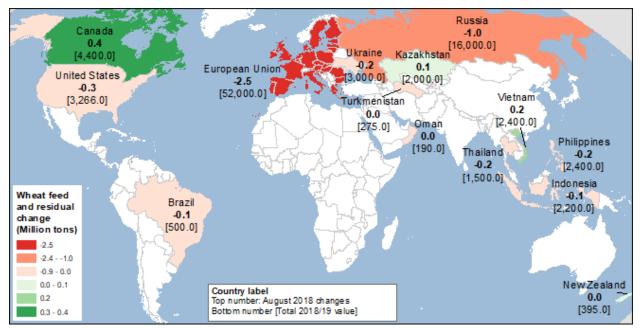
Projected world coarse grain use in 2018/19 is up fractionally this month by 3.6 million tons to 1,381.7 million, with most of the increase coming from the United States.

The largest change in foreign coarse grain use is increased corn use in the EU, up 1.0 million tons due to increased imports. Additionally, Brazil feeding is increased by 1.0 million tons in 2017/18 and 1.0 million tons in 2018/19 due to the country's supplies not being competitive for the export market and expected growth in domestic meat production. U.S. feed use is revised up by 2.5 million tons for 2018/19 due to a large boost in production, with food, seed, and industrial use also increasing 0.6 million tons, mostly due to use of sorghum for ethanol production.



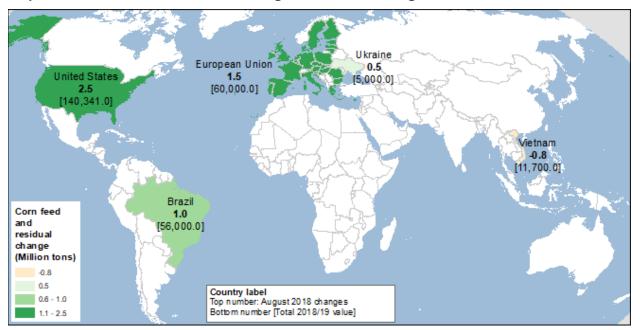
### Map A2 – Corn production changes for 2018/19, August 2018

Source: USDA, Foreign Agricultural Service, Production, Supply, and Distribution online database.



### Map A3 – Wheat feed and residual changes for 2018/19, August 2018

Source: USDA, Foreign Agricultural Service, Production, Supply, and Distribution online database.



### Map A4 – Corn feed and residual changes for 2018/19, August 2018

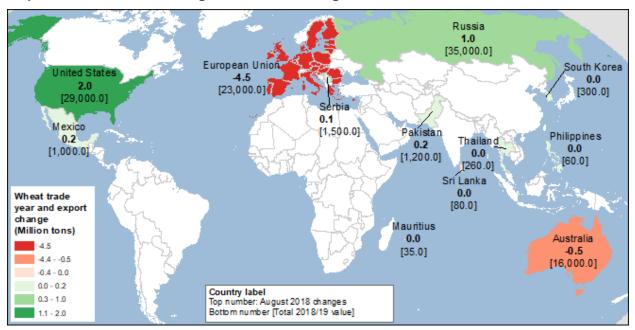
Source: USDA, Foreign Agricultural Service, Production, Supply, and Distribution online database.

# Projected Global Ending Stocks Up Due to U.S. Production

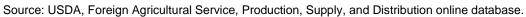
Increased supplies led to an increase in coarse grain stocks. World coarse grain ending stocks for 2018/19 are projected up 3.3 million tons this month to 183.1 million, with corn stocks increased by 3.5 million tons, while sorghum and oats stocks are projected fractionally down since last month. The largest stocks' changes other than for the United States are for Brazil (up 1.0 million tons, less exports and production) and Zambia (down 0.6 million tons, lower corn production). Many smaller changes are made for other countries.

### World Coarse Grain Trade Lower in 2018/19

The August forecast for world coarse grain exports in the October-September international trade year 2018/19 is higher than the July forecast by 2.0 million tons. This global export figure is driven down by a 3.0-million-ton decrease in Brazil's expected exports due to lower production. Similarly, with poor production in the EU, its exports are similarly reduced by 0.8 million tons, while at the same time its imports are increased by 2.3 million tons to make up for the production reduction.



### Map A5 – Wheat trade changes for 2018/19, August 2018



# U.S. Corn Export Prospects Up With Boost in Production

World corn trade for 2018/19 is increased this month, up 0.9 million tons to 156.0 million. A contributing factor is a large decrease in the Brazilian corn crop, with Brazil alone reducing its exports by 3.0 million tons. To reverse this trend, the United States, with its increased production estimate, backfills trade with an increase of 2.5 million tons of corn. EU imports of corn, to make up for the EU's deteriorating wheat and corn supplies, are offset by a 2.0-million-ton increase in its corn imports. Additionally, Ukraine corn exports are adjusted up by 0.5 million tons, with a larger crop expected in 2018/19.

World sorghum trade for 2017/18 is projected slightly down by 0.7 million tons, with the United States being the main driver. The United States reduced its 2017/18 export figures due to lower than anticipated shipments to China in June and July. Prospects for 2018/19 world sorghum trade are marginally reduced by 0.1 million tons.

	Region or country	Production	Change from previous month <sup>1</sup>	YoY Change <sup>2</sup>	Comments			
			Million tons					
0	arse grain produ	uction (total)	)					
	World	1342.1	+5.2	+27.7				
ļ	Foreign	957.4	-4.3	+27.3	Production in Europe is revised down due to poor conditions			
	United States	384.7	+9.6	+0.4	US production is increased on record corn yield.			
Vo	rld production o	of coarse gra	ains by type of gr	ain				
				CORN				
	World	1,033.3	+6.8	+27.8				
	Foreign	662.3	-2.3	+28.2	Europe experiencing poor conditions and Brazilian expectations for their second season crop are reduced due anticipated lower area			
	United States	371.0	+9.1	-0.5	Record yield projected			
		1		BARLE	Y			
	World	144.3	-0.3	+0.1				
ļ	Foreign	141.2	-0.3	-0.2	Europe experiencing poor growing conditions, but Ukraine production is up			
	United States	3.1	Small positive change	+0.3				
				SORGHU	JM			
	World	59.2	+0.5	+1.7				
	Foreign	49.7	Small negative change	+1.4				
	United States	9.5	+0.5	+0.2				
				OATS	•			
	World	23.5	Small positive change	Small positive change				
ļ	Foreign	22.6	Small positive change	-0.2				
	United States	1.0	Small negative change	+0.2				
RYE								
	World	11.0	-1.3	-1.2	Due to European weather conditions			
	Foreign	10.8	-1.3	-1.3				
ļ	United States	0.3	No change	Small change				
		1		MIXED GR	AIN			
1	World/Foreign	15.5	-0.3	-0.2				

Tab	ole A2 - Coa	arse grai	in produc	tion by co	ountry a	at a glance, August 2018
	Type of crop	Crop vear	Production	Change in	YoY <sup>2</sup>	Comments
	<b>71</b> • • • • • • • •			forecast <sup>1</sup>	change	
				illion tons	_	
Coa	rse grain pro	duction ch	nanges by c	ountry and		of grain (2018/19)
					RUSS	IA
Ļ	Corn	Oct-Sep	12.0	No change	-1.2	
Ļ	Barley	July-June	17.0	No change	-3.2	
				EU	ROPEAN	IUNION
Ļ	Barley	July-June	59.2	-1.4	+0.1	
1	Corn	Oct-Sep	69.8	-1.7	-2.5	
1	Oats	July-June	8.6	Small change	+0.5	
	Mixed grain	July-June	15.2	-0.3	-0.2	
	Rye	July-June	7.0	-1.0	-0.4	
					AUSTR	
Ļ	Barley	Nov-Oct	8.8	No change	-0.1	
↓	Oats	Nov-Oct	1.1	No change	Small change	
					CANA	
	Barley	Aug-July	8.8	No change	+0.9	Barley area is projected higher based on the recently published June Statistics Canada report.
Ļ	Corn	Oct-Sep	14.8	No change	+0.7	A small decrease in corn area is based on the June Statistics Canada report.
Ļ	Oats	Aug-July	3.5	No change	-0.2	Smaller oats area is based on the June Statistics Canada report.
	• •					untries, see maps A1 and A2 for corn and barley production changes.
		•			•	ural and Resource Economics and Sciences. tion online database.
Sourc	e. USDA, i uleig	n Ayncultulai	Service, Flout	iction, Supply		וווטון טוווווב עמומאמשב.

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### Data

Tables from the *Sugar and Sweeteners Yearbook* are available in the Sugar and Sweeteners Topics at http://www.ers.usda.gov/topics/sugar/. They contain the latest data and historical information on the production, use, prices, imports, and exports of sugar and sweeteners.

### **Related Websites**

Feed Grains Database <u>https://www.ers.usda.gov/data-products/feed-grains-database.aspx</u> Feed Grains Yearbook Tables <u>https://www.ers.usda.gov/data-products/feed-grains-database/feed-grains-yearbook-tables/</u>

U.S. Bioenergy Statistics https://www.ers.usda.gov/data-products/us-bioenergy-statistics.aspx Sugar and Sweeteners Outlook <u>http://www.ers.usda.gov/Publications/SSS/</u> WASDE <u>http://usda.mannlib.cornell.edu/MannUsda/viewDocumentInfo.do?documented=1194</u>

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							Food,					Farr price 2
			<b>_</b>				seed, and			Total		(dolla
	ity, market	year,	Beginning	Broduction	Importo	Total	industrial	residual	Evporto	disappear-	Ending	pe
and quart Corn		Sep-Nov	1,731	Production 13,602	Imports 13	supply 15,346	use 1,631	use 2,178	Exports 301	ance 4,111	stocks	bushe 3.6
Join	2015/16			13,602							11,235	
		Dec-Feb Mar-May	11,235		18 21	11,253 7,843	1,652 1,655	1,438 914	341 563	3,431 3,132	7,822 4,711	3.6 3.6
			7,822								-	
		Jun-Aug	4,711	40.000	16	4,727	1,709	587	694	2,990	1,737	3.5
		Mkt yr	1,731	13,602	68	15,401	6,647	5,118	1,899	13,664	1,737	3.6
	2016/17	Sep-Nov	1,737	15,148	14	16,899	1,689	2,277	548	4,514	12,386	3.2
		Dec-Feb	12,386		12	12,398	1,711	1,525	539	3,776	8,622	3.3
		Mar-May	8,622		17	8,639	1,741	982	687	3,410	5,229	3.4
		Jun-Aug	5,229		14	5,243	1,743	687	520	2,949	2,293	3.4
		Mkt yr	1,737	15,148	57	16,942	6,885	5,470	2,294	14,649	2,293	3.3
	2017/18	Sep-Nov	2,293	14,604	11	16,908	1,745	2,247	349	4,342	12,567	3.2
		Dec-Feb	12,567		9	12,575	1,737	1,505	441	3,683	8,892	3.3
		Mar-May	8,892		8	8,900	1,779	944	871	3,594	5,306	3.5
		Mkt yr	2,293	14,604	40	16,937	7,060	5,450	2,400	14,910	2,027	3.35-3.4
	2018/19	Mkt yr	2,027	14,586	50	16,664	7,105	5,525	2,350	14,980	1,684	3.10-4.1
Sorahum	2015/16	Sep-Nov	18.41	596.75	3.60	618.76	22.14	159.65	114.44	296.23	322.54	3.5
borgriain	2010/10	Dec-Feb	322.54	000.10	0.98	323.51	41.77	-6.14	86.30	121.93	201.58	3.1
		Mar-May	201.58		0.00	201.59	43.31	-5.53	73.46	111.24	90.35	3.1
		Jun-Aug	90.35		0.01	90.36	29.73	-43.65	67.65	53.73	36.63	3.3
		Mkt yr	18.41	596.75	4.59	619.75	136.95	104.32	341.85	583.12	36.63	3.3
	2016/17	Sep-Nov	36.63	480.26	0.00	516.90	21.65	145.29	41.81	208.75	308.15	2.6
	2010/17	Dec-Feb	308.15	400.20	0.00	308.15	33.06	5.04	89.32	127.41	180.75	2.6
		Mar-May	180.75		0.00	180.75	34.62	2.41	59.02	96.04	84.71	2.0
		Jun-Aug	84.71		1.73	86.44	25.30	-19.99	47.67	52.98	33.46	3.5
		Mkt yr	36.63	480.26	1.74	518.63	114.61	132.75	237.82	485.18	33.46	2.7
												_
	2017/18	Sep-Nov	33.46	363.83	1.91	399.20	13.92	112.09	45.71	171.71	227.49	3.1
		Dec-Feb	227.49		0.05	227.55	9.24	6.72	71.33	87.29	140.26	3.1
		Mar-May	140.26	000.05	0.01	140.27	15.93	-14.55	73.58	74.95	65.31	3.4
		Mkt yr	33.46	363.83	2.00	399.29	60.00	85.00	210.00	355.00	44.29	3.15-3.2
	2018/19	Mkt yr	44.29	375.39		419.68	125.00	80.00	175.00	380.00	39.68	2.90-3.9

#### Table 1--Feed grains: U.S. quarterly supply and disappearance (million bushels), 8/14/2018

							Food,					Farm price 2
							seed, and			Total		(dollars
	dity, market	year,	Beginning				industrial	residual		disappear-	Ending	pe
and qua				Production	Imports	supply	use	use	Exports	ance	stocks	bushel
Barley	2015/16	Jun-Aug	79	218	4	301	41	38	3	82	219	5.39
		Sep-Nov	219		4	223	37	1	4	43	180	5.52
		Dec-Feb	180		7	187	36	11	3	50	138	5.6
		Mar-May	138		4	141	44	-5	1	39	102	5.43
		Mkt yr	79	218	19	315	158	44	11	213	102	5.52
	2016/17	Jun-Aug	102	200	2	304	41	32	1	74	230	4.9
		Sep-Nov	230		2	232	39	-0	1	40	193	4.78
		Dec-Feb	193		2	195	37	12	1	50	145	5.04
		Mar-May	145		3	148	45	-6	2	41	106	4.90
		Mkt yr	102	200	10	312	162	39	4	205	106	4.96
	2017/18	Jun-Aug	106	142	2	251	41	29	2	71	180	4.52
		Sep-Nov	180		2	182	38	-17	2	23	159	4.4
		Dec-Feb	159		2	161	35	-6	1	31	130	4.4
		Mar-May	130		3	133	43	-6	1	38	95	4.4
		Mkt yr	106	142	9	257	157	0	5	163	95	4.4
	2018/19	Mkt yr	95	156	20	271	155	15	5	175	96	4.00-5.2
Octo	0045/40	I	54	00	40	404	40	40	0	<u></u>	0.4	0.44
Oats	2015/16	Jun-Aug	54	90	18	161	18	49	0	68	94	2.1
		Sep-Nov	94		26	120	18	19	1	37	83	2.0
		Dec-Feb	83		25	108	17	15	0	33	75	2.0
		Mar-May	75	00	16	91	23	10	1	34	57	2.1
		Mkt yr	54	90	86	229	77	94	2	172	57	2.12
	2016/17	Jun-Aug	57	65	21	142	19	44	1	64	79	1.8
		Sep-Nov	79		28	106	18	12	1	31	75	2.0
		Dec-Feb	75		24	100	17	18	1	36	63	2.3
		Mar-May	63		18	81	22	8	1	31	50	2.42
		Mkt yr	57	65	90	212	76	82	3	161	50	2.0
	2017/18	Jun-Aug	50	49	19	119	18	28	1	47	72	2.3
		Sep-Nov	72		30	102	18	17	1	36	66	2.5
		Dec-Feb	66		20	86	18	13	1	31	55	2.9
		Mar-May	55		20	75	24	10	1	34	41	2.9
		Mkt yr	50	49	89	189	78	68	2	148	41	2.5
	2018/19	Mkt yr	41	66	95	202	79	80	2	161	41	2.50-3.10

Table 1--Feed grains: U.S. quarterly supply and disappearance, cont. (million bushels), 8/14/2018

Latest market year is projected; previous market year is estimated. Totals may not add due to rounding.

1/ Corn and sorghum, September 1-August 31 marketing year; Barley and oats, June 1-May 31 marketing year.

2/ Average price received by farmers based on monthly price weighted by monthly marketings. For the latest market year, quarterly prices are calculated by using the current monthly prices weighted by the monthly marketings for those months for the previous 5 years divided by the sum of marketings for those months.

Source: USDA, World Agricultural Outlook Board, World Agricultural Supply and Demand Estimates and supporting materials.

Data run: 8/12/2018

#### Table 2--Feed and residual use of wheat and coarse grains, 8/14/2018

Market ye quarter 1,		Corn (million metric tons)	Sorghum (million metric tons)	Barley (million metric tons)	Oats (million metric tons)	Feed grains (million metric tons)	(million	Energy feeds (million metric tons)	Grain consuming animal units (millions)	Energy feeds per grain consuming animal unit (tons)
2016/17	Q1 Sep-Nov	57.8	3.7	-0.0	0.2	61.8	-0.8	60.9		
	Q2 Dec-Feb	38.7	0.1	0.3	0.3	39.5	-0.4	39.1		
	Q3 Mar-May	24.9	0.1	-0.1	0.2	25.0	-1.7	23.3		
	Q4 Jun-Aug	17.4	-0.5	0.6	0.5	18.0	4.5	22.5		
	MY Sep-Aug	138.9	3.4	0.8	1.2	144.3	1.6	145.9	95.7	1.5
2017/18	Q1 Sep-Nov	57.1	2.8	-0.4	0.3	59.9	-1.5	58.4		
	Q2 Dec-Feb	38.2	0.2	-0.1	0.2	38.5	-0.4	38.1		
	Q3 Mar-May	24.0	-0.4	-0.1	0.2	23.7	-1.2	22.4		
	MY Sep-Aug	138.4	2.2	-0.3	1.4	141.7	1.8	143.5	98.7	1.5
2018/19	MY Sep-Aug	140.3	2.0	0.9	1.4	144.7	3.3	148.0	100.5	1.5

1/ Corn and sorghum, September 1-August 31 marketing year; Barley and oats, June 1-May 31 marketing year.

Source: USDA, World Agricultural Outlook Board, World Agricultural Supply and Demand Estimates and supporting materials.

Table 3--Cash feed grain prices, 8/14/2018

Mkt year		, No. 2 yell Central IL	ow,		, No. 2 yell ılf ports, L/		Sorghum, No. 2 yellow, Gulf ports, LA		
and	(dolla	ars per bus	hel)	(dolla	ars per bus	hel)	(dollars p	per cwt)	
month 1/	2015/16	2016/17	2017/18	2015/16	2016/17	2017/18	2015/16	2016/17	
Sep	3.55	3.09	3.15	4.22	3.78	3.74	8.08		
Oct	3.67	3.27	3.15	4.36	3.88	3.77	8.23		
Nov	3.62	3.28	3.14	4.22	3.83	3.78	7.89		
Dec	3.62	3.34	3.21	4.17	3.88	3.79			
Jan	3.55	3.45	3.29	4.09	4.07	3.96			
Feb	3.56	3.51	3.45	4.06	4.14	4.15			
Mar	3.54	3.40	3.52	4.05	4.04	4.36			
Apr	3.61	3.41	3.54	4.17	3.98	4.46			
May	3.74	3.47	3.73	4.30	4.03	4.55			
Jun	3.91	3.49	3.38	4.62	4.01	4.19		7.56	
Jul	3.28	3.51	3.22	4.11	4.00	3.98			
Aug	3.09	3.27		3.82	3.77				
Mkt year	3.56	3.37		4.18	3.95		8.07	7.56	
	<b>-</b> .			Barley,		<b>•</b> • • •	<b>A</b> 1.14		
		ey, No. 2 fe		malti	0	-	o. 2 white I		
		neapolis, N		Minneapo			neapolis, N		
-		ars per bus		(dollars pe	,		ars per bus	,	
	2016/17	2017/18	2018/19	2016/17	2017/18	2016/17	2017/18	2018/19	
Jun	2.36	2.05	2.85		4.70	2.58	2.95	2.88	
Jul	2.33	2.05	2.85		4.67	2.61	3.17	2.86	
Aug	2.08	2.10			4.70	2.34	2.98		
Sep	1.95	2.10			4.70	2.29	2.87		
Oct	2.00	2.10			4.70	2.67	2.97		
Nov	2.00	2.36				2.84	2.94		
Dec	2.00	2.61			4.85	2.92	2.73		
Jan	2.00	2.65			4.85	2.97	2.90		
Feb	2.00	2.81			4.85	3.07	2.96		
Mar	2.02	2.85		4.70	4.50	2.90	2.79		
Apr	2.05	2.85				2.86	2.72		
May	2.05	2.85				2.88	2.89		
Mkt year	2.07	2.45		4.70		2.74	2.90		

1/ Corn and sorghum, September 1-August 31 marketing year; Barley and oats, June 1-May 31 marketing year. Simple average of monthly prices for the marketing year.

Source: USDA, Agricultural Marketing Service, http://marketnews.usda.gov/portal/lg.

#### Table 4--Selected feed and feed byproduct prices (dollars per ton), 8/14/2018

Mkt year	h	ybean mea igh protein,		4	onseed me 1% solvent	,		n gluten fee 1% protein,	d,		n gluten me 0% protein,	
and month _ 1/	2015/16	tral Illinois, 2016/17	2017/18	2015/16	emphis, TN 2016/17	2017/18	2015/16	Midwest 2016/17	2017/18	2015/16	Midwest 2016/17	2017/18
Oct	327.97	323.26	319.24	292.50	241.88	229.00	96.00	77.00	80.70	509.38	466.13	469.30
Nov	308.60	322.42	313.52	292.50	241.00	228.75	109.63	83.50	93.00	477.50	400.13	487.24
Dec	289.78	321.03	327.17	265.00	217.50	232.50	113.13	92.83	96.25	482.25	501.67	482.88
Jan	279.57	332.34	322.60	203.00	217.50	252.50	109.63	92.83 97.50	90.23 98.80	452.23	502.50	402.00
Feb	279.57		362.85			259.00 303.13	109.83					483.13
		334.32		238.13	221.88			88.13	106.25	457.50	516.50	
Mar	276.23	320.34	379.85	216.50	210.63	323.13	87.00	87.13	105.50	445.50	505.63	524.75
Apr	303.81	305.67	385.85	207.50	195.00	263.13	73.25	75.00		434.00	501.13	
May	376.36	293.68	393.55	242.50	179.50	262.50	87.00	71.00		464.10	485.30	
Jun	408.58	258.75	355.71	284.00	179.38	257.50	107.13	68.38		568.13	475.75	
Jul	371.49	326.04	341.08	280.00	200.84	253.13	95.01	71.35		573.13	467.88	
Aug	340.80	301.05		280.00	198.50		90.30	73.10		507.20	475.50	
Sep	337.95	307.70		285.00	213.75		85.38	75.00		469.38	469.25	
Mkt yr	324.56	312.22		260.98	208.61		96.32	79.99		486.71	487.06	
										Alfalfa	hay,	
	Meat a	and bone m	ieal,	Distille	ers dried gra	ains,	Whe	eat middling	S,	weighted-	average	
_	C	Central US		Cen	Central Illinois, IL			Kansas City, MO			farm price 2/	
_	2015/16	2016/17	2017/18	2015/16	2016/17	2017/18	2015/16	2016/17	2017/18	2016/17	2017/18	
Oct	291.88	237.50	228.00	123.13	116.25	117.30	105.93	79.43	70.36	135.00	152.00	
Nov	266.25	229.00	219.38	132.63	111.70	123.13	106.53	85.53	86.85	130.00	148.00	
Dec	221.67	211.67	221.67	133.13	104.84	143.75	99.55	101.62	107.88	127.00	148.00	
Jan	200.13	255.60	220.00	132.50	96.30	155.50	104.16	98.25	123.68	126.00	152.00	
Feb	193.75	285.00	225.84	136.63	98.88	158.88	97.89	84.66	114.61	127.00	155.00	
Mar	261.00	284.38	275.00	134.50	98.25	164.13	68.64	80.76	99.69	134.00	166.00	
Apr	316.25	266.25	316.25	122.38	99.25	174.38	65.12	58.03	100.22	150.00	183.00	
May	310.10	245.50	293.00	141.10	100.50	174.90	60.72	48.41	98.90	157.00	189.00	
Jun	345.00	248.13	288.75	170.50	105.25	158.50	57.94	60.39	89.50	154.00	181.00	
Jul	381.67	276.25	283.75	149.38	110.63	139.30	61.48	67.10		152.00		
Aug	347.00	318.50		130.90	110.00		60.61	63.15		147.00		
Sep	285.63	301.88		127.75	111.63		64.43	67.48		149.00		
Mkt yr 1/ October 1	285.03	263.31		136.21	105.29		79.42	74.57		136.00	152.00	

1/ October 1-September 30 except for hay. Simple average of monthly prices for the marketing year except for hay.

Source: USDA, Agricultural Marketing Service, http://marketnews.usda.gov/portal/lg, and USDA, National Agricultural Statistics Service, http://www.nass.usda.gov/Data\_and\_Statistics/Quick\_Stats/index.asp.

#### Table 5--Corn: Food, seed, and industrial use (million bushels), 8/14/2018

Mkt year a		High-fructose corn syrup (HFCS)	Glucose and dextrose	Starch		manufacturing	Cereals and other products	Seed	Total food, seed, and industrial use
2016/17	Q1 Sep-Nov	113.13	88.81	58.20	1,343.08		49.92	0.00	1,688.92
	Q2 Dec-Feb	106.71	88.53	56.36	1,371.21	36.35	52.33	0.00	1,711.49
	Q3 Mar-May	120.23	96.89	59.70	1,346.10	36.72	54.45	27.25	1,741.34
	Q4 Jun-Aug	126.36	97.04	61.20	1,371.56	37.15	47.60	2.05	1,742.96
	MY Sep-Aug	466.43	371.26	235.45	5,431.95	146.00	204.30	29.30	6,884.70
2017/18	Q1 Sep-Nov	112.55	93.67	59.72	1,391.29	36.30	51.50	0.00	1,745.03
	Q2 Dec-Feb	105.21	87.91	56.87	1,397.46	38.10	51.60	0.00	1,737.15
	Q3 Mar-May	117.97	94.42	58.56	1,388.64	39.90	52.00	27.80	1,779.30
	MY Sep-Aug	460.00	375.00	240.00	5,600.00	149.00	206.70	29.30	7,060.00
2018/19	MY Sep-Aug	460.00	390.00	240.00	5,625.00	150.00	210.10	29.90	7,105.00

1/ September-August. Latest data may be preliminary or projected.

Source: Calculated by USDA, Economic Research Service.

Date run: 8/12/2018

#### Table 6--Wholesale corn milling product and byproduct prices, 8/14/2018

Mkt year and	Corn meal Chicag (dollars p	o, IL	Corn meal New Yo (dollars p	rk, NY	Corn st Midwe (dollars p	st 3/	Dextro Midw (cents per	est	High-fructo syrup (4 Midw (cents per	42%), vest
month 1/	2016/17	2017/18	2016/17	2017/18	2016/17	2017/18	2016/17	2017/18	2016/17	2017/18
Sep	16.71	16.01	18.38	17.68	13.21	14.41	39.00	39.00	26.75	28.25
Oct	17.06	15.94	18.73	17.61	13.39	13.87	39.00	39.00	26.75	28.25
Nov	16.89	15.78	18.56	17.45	13.87	13.90	39.00	39.00	26.75	28.25
Dec	16.84	15.69	18.51	17.35	14.23	13.75	39.00	39.00	26.75	28.25
Jan	17.07	15.75	18.74	17.42	14.05	13.81	39.00	39.25	28.25	28.25
Feb	17.13	16.09	18.80	17.76	14.20	14.08	39.00	39.25	28.25	
Mar	17.06	16.13	18.40	17.80	14.41	14.53	39.00	39.25	28.25	
Apr	16.99	16.23	18.58	17.90	14.29	14.65	39.00	39.25	28.25	
May	16.91	16.41	18.58	18.08	14.38	14.44	39.00	39.25	28.25	
Jun	16.89	15.64	18.56	17.31	14.74	14.77	39.00	39.25	28.25	
Jul	16.89	15.28	18.56	16.95	15.04	14.20	39.00	39.25	28.25	
Aug	16.25		17.92		14.98		39.00		28.25	
Mkt year 2/	16.89		18.53		14.23		39.00		27.75	

1/ September-August. Latest month is preliminary.

2/ Simple average of monthly prices for the marketing year.

3/ Bulk-industrial, unmodified.

Source: Milling and Baking News, except for corn starch which is from private industry.

Date run: 8/12/2018

#### Table 7--U.S. feed grain imports by selected sources (1,000 metric tons) 1/, 8/14/2018

		2016/1	7	2017/1	8	2018/19
Import and coun	try/region	Mkt year	Jun	Mkt year	Jun	Jun
Oats	Canada	1,507	100	1,483	81	97
	Sweden	27		41		
	Finland	21		16		
	All other countries	0	0	0	0	0
	Total 2/	1,556	100	1,540	81	97
Malting barley	Canada	102	10	87	9	3
	All other countries	17	0	1	0	0
	Total 2/	119	10	88	9	3
Other barley 3/	Canada	89	6	109	11	7
	All other countries	2	0	1	0	0
	Total 2/	90	6	110	11	7

1/ Grain only. Market year (June-May) and market year to date.

2/ Totals may not add due to rounding.

3/ Grain for purposes other than malting, such as feed and seed use.

Source: U.S. Department of Commerce, Bureau of the Census, Foreign Trade Statistics.

Date run: 8/12/2018

Table 8--U.S. feed grain exports by selected destinations (1,000 metric tons) 1/, 8/14/2018

		20	15/16	20	16/17	2017/18
Export and	d country/region	Mkt year	Sep-Jun	Mkt year	Sep-Jun	Sep-Jun
Corn	Mexico	13,337	11,005	13,932	11,373	12,389
	Japan	10,439	7,731	13,557	11,501	9,942
	Colombia	4,548	4,019	4,733	3,984	4,360
	South Korea	2,964	1,677	5,601	5,332	4,432
	Peru	2,379	1,906	2,989	2,472	2,683
	China (Taiwan)	2,040	1,357	2,962	2,735	1,801
	Saudi Arabia	1,389	1,049	2,163	2,092	1,162
	Venezuela	1,155	822	419	325	405
	Canada	1,014	827	704	588	1,288
	Guatemala	906	738	993	803	709
	Egypt	852	520	323	277	1,015
	Algeria	663	346	91	91	48
	El Salvador	631	530	593	491	368
	Costa Rica	552	416	819	665	713
	Honduras	550	452	506	397	490
	Morocco	450	272	871	871	710
	European Union-27	413	226	843	648	1,904
	Vietnam	413	315	200	200	1,774
	Panama	392	303	504	423	411
	Israel	388	139	84	68	359
	Chile	353	224	543	543	0.595
	Jamaica	283	225	275	223	251
	China (Mainland)	264	262	807	364	305
	Nicaragua	258	190	329	266	228
	Dominican Republic	253	197	807	762	455
	All other countries	1,342	943	2,621	2,500	1,111
	Total 2/	48,229	36,688	58,270	49,994	49,313
Sorghum	China (Mainland)	7,091	6,079	4,740	3,880	4,153
Corgnam	Mexico	625	511	585	537	-,100
	Sub-Saharan Africa	593	480	467	390	273
	Pakistan	205	205	0.466	0.466	210
	All other countries	170	131	248	247	393
	Total 2/	8,683	7,406	6,041	5,055	4,886
					•	
		-	16/17	-	17/18	2018/19
Barley	Canada	Mkt year 63	Jun 7	Mkt year 69	Jun 8	Jun 3
Daney	Japan	23	1	69 31	o 4	3
	•	4		5	4 0.383	0.252
	China (Taiwan) Mexico	4	0.735	о 0.542	0.303	0.252
			0 1 4 7		0 070	
	All other countries	3	0.147	6	0.870	1
	Total 2/	95	10	111	13	

1/ Grain only. Market year (September-August for corn and sorghum, June-May for barley) and market year to date.

2/ Totals may not add due to rounding.

Source: U.S. Department of Commerce, Bureau of the Census, Foreign Trade Statistics.

Date run: 8/12/2018

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### **Related Data**

<u>Feed Grains Database</u> is a queryable database that contains monthly, quarterly, and annual data on prices, supply, and use of corn and other feed grains. This includes data published in the monthly Feed Outlook.

### **Related Websites**

- <u>Mann Library Feed Outlook page Mann</u>
  - Library WASDE page
- Grain Circular <a href="https://www.fas.usda.gov/commodities/grain-and-feed">https://www.fas.usda.gov/commodities/grain-and-feed</a>
- ERS Corn Topic page

### E-mail Notification

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