



# Wheat Outlook

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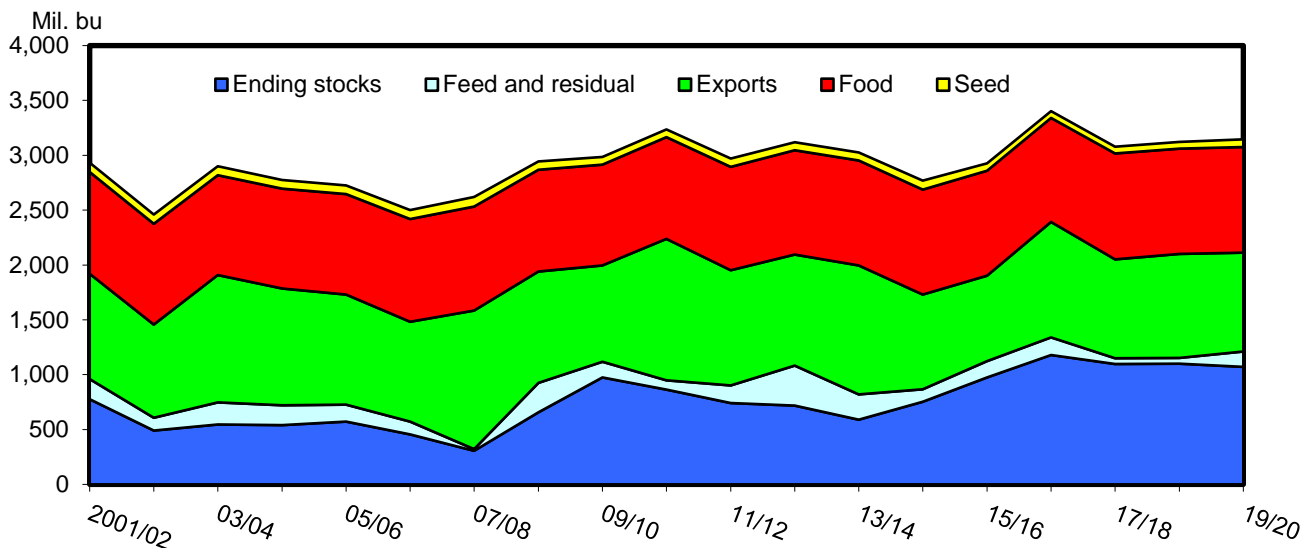
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## 2019/20 Wheat Production, Feed and Residual Lifted, Exports Continue to Face Headwinds

This month's USDA, National Agricultural Statistics Service *Crop Production* report provided revised winter wheat and desert durum production for 2019/20. On net, winter wheat is raised 6 million bushels on improved yields. Production gains help to offset the effects of lower carryin stemming from increased back-year exports and leading to reduced total supplies month-to-month. New crop all-wheat feed and residual is increased by 50 million bushels on a sharp reduction in corn production and feeding (fig. 1). Prospects for 2019/20 exports are not improved from the previous month and remain at 900 million bushels. In 2019/20, recovery in European Union (EU) and Australia production and exportable supplies creates formidable competition for U.S. wheat in global markets. On expectations for larger crops, Russia and Ukraine exports are both raised a million tons this month and further inhibit growth in U.S. exports in 2019/20.

**Figure 1: Both new and old crop U.S. wheat utilization are raised as ending stocks tighten**



Source: USDA, World Agricultural Outlook Board, WASDE.

# Domestic Outlook

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## Domestic Changes at a Glance:

- U.S. Census Bureau trade data through April indicate a brisk pace of old crop shipments in the fourth quarter and support a 25-million-bushel increase in the 2018/19 exports.
  - Estimated total exports for the fourth quarter or the 2018/19 marketing year exceeded expectations as the U.S. was able to capitalize on reduced exportable supplies from the Black Sea region and more competitive export prices.
- Larger back year exports serve to lower 2018/19 ending stocks and carryin for the 2019/20 marketing year. Reduced carryin for 2019/20 is offset slightly growth in projected wheat production.
- Winter wheat production for 2019/20 is raised 6 million bushels this month to 1,274.5 million on increased yields.
  - USDA, National Agricultural Statistics Service (NASS) lifted hard red winter (HRW) wheat production by more than 14 million bushels from the previous forecast, more than offsetting lower projected production for soft red winter (SRW), down 6.3 million, and white winter wheat (down 1.8 million).
- Other spring wheat production is unchanged from the May forecast and will be re-evaluated following the end of June release of the *Acreage* report.
- Forecast durum production for 2019/20 is cut slightly, down 194,000 bushels from the previous projection on reduced desert durum production reported by NASS for Arizona.
- Carryin is reduced by more than production is increased, resulting in a net 19.2 million bushel reduction in supplies, relative to the May projection.
- Total use for the new marketing year is raised 50 million bushels this month on a significant expansion of projected feed and residual use.
  - Wheat feed and residual use for 2019/20 is raised on sharp declines for both corn production and corn feed and residual, which in turn supports a 50-cent increase in the forecast season average corn price.
- The tighter wheat balance sheet for 2019/20 and a significant increase in the corn price combine to lift the all-wheat season average farm price by 40 cents this month to \$5.10 per bushel.

**Table 1 - U.S. wheat supply and utilization at a glance, 2018/19 and 2019/20**

Balance sheet item	2018/19 June	2019/20 May	2019/20 June	Change from previous month	Comments
<b>Supply, total</b>	<i>Million bushels</i>				<i>May-June Marketing Year (MY)</i>
Beginning stocks	1,098.9	1,126.8	1,101.8	-25.0	Carryin from 2018/19 is lower on increased old crop exports.
Production	1,884.5	1,896.9	1,902.7	5.8	New crop production is raised 6 million bushels on higher Hard Red Winter wheat production that is not offset by cuts to Soft Red Winter and Winter White wheat production
Imports	140.0	140.0	140.0	0.0	
Supply, total	3,123.3	3,163.7	3,144.5	-19.2	Reduced carryin more than offsets production gains, resulting in lower total supply in 2019/20.
<b>Demand</b>	<i>Million bushels</i>				
Food	960.0	965.0	965.0	0.0	
Seed	61.5	68.0	68.0	0.0	
Feed and residual	50.0	90.0	140.0	50.0	Feed and residual use for 2019/20 is raised 50 million bushels on a sizable cut to corn production and associated reduction in corn feeding.
Domestic, total	1,071.5	1,123.0	1,173.0	50.0	Domestic use is raised 50 million bushels on expanded feed and residual use.
Exports	950.0	900.0	900.0	0.0	
Use, total	2,021.5	2,023.0	2,073.0	50.0	Total use is lifted 50 million bushels on expanded domestic utilization.
Ending stocks	1,101.8	1,140.7	1,071.5	-69.2	Reduced supplies and increased domestic use combine to tighten the balance sheet. A tighter all-wheat balance sheet supports a month-to-month increase in the all-wheat price, raised 40 cents this month to \$5.10 per bushel.

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

## 2019 Winter Wheat Production Nudged Higher on Improved Prospects for Hard Red Winter Wheat

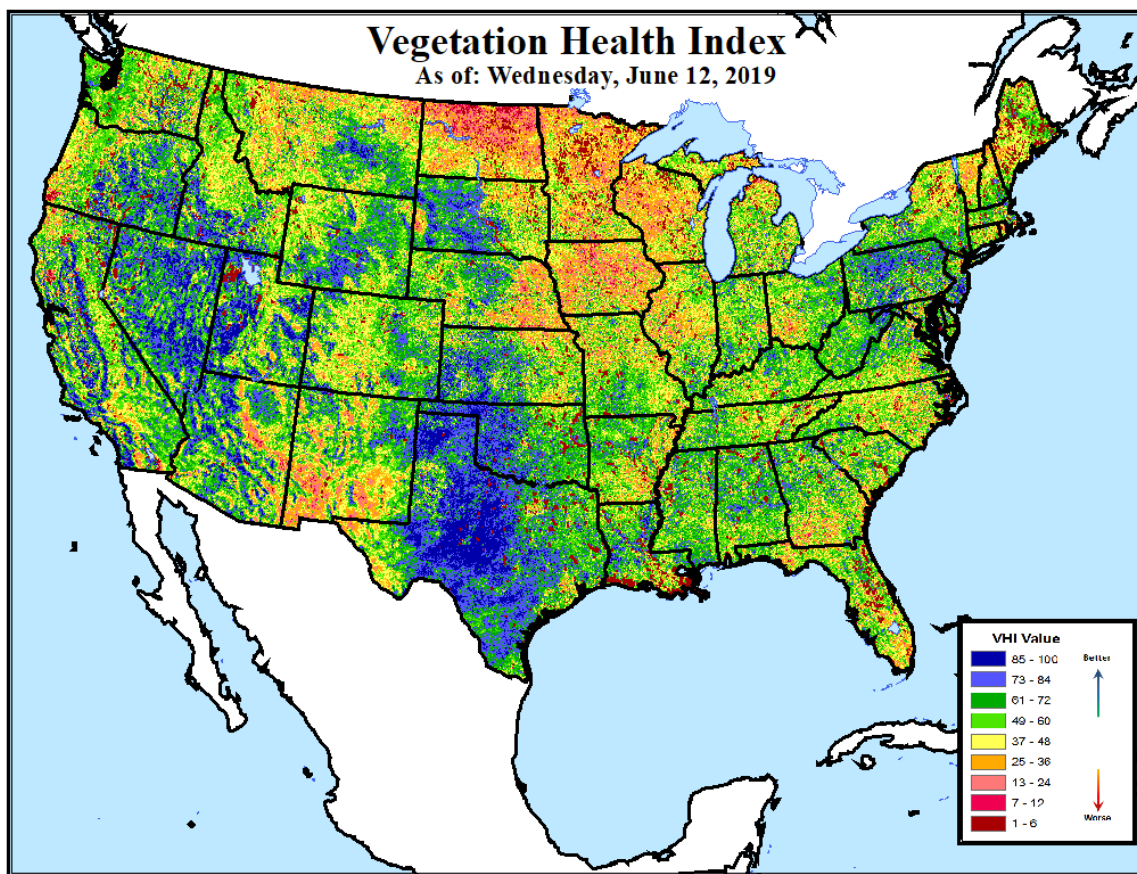
This month, USDA, National Agricultural Statistics Service (NASS) released the second survey-based winter wheat production forecast for the 2019/20 marketing year. Farmer responses collected by NASS between May 25 and June 6 inform projections of winter wheat area harvested, yields, and production-by-State. In NASS' June release of the *Crop Production* report, winter wheat yields for 2019 are projected at 50.5 bushels per acre, up from 50.3 bushels estimated in May and comparable to the 47.9 bushels per acre that farmers realized in 2018.

Winter wheat yields are improved in a number of key States—most notably, Kansas, where yields are estimated to have increased 1 bushel per acre from the May forecast. If realized, this will be the second-highest winter wheat yield on record for Kansas, behind 2016 when 57 bushels per acre were realized. The projection for near record-high winter wheat yields is attributable to relatively mild, though wet, growing conditions that have become increasingly favorable as showers abated and weather has warmed. As of June 9, NASS reports that 64 of U.S. winter wheat acreage was reported to be in “good” to “excellent” condition, 26 percentage points above the same time in 2018.

On June 12, the World Agricultural Outlook Board, Agricultural Weather and Assessments Group released their map of the U.S. vegetative health index (VHI) based on data provided by NOAA/NESDIS Center for Satellite Applications and Research (fig. 2). The VHI map clearly shows better VHI values across the broad winter wheat production belt and support NASS' finding that the vast majority of winter wheat rated “good” to “excellent.” Also visible is the emergent drought conditions in the Northern Plains near the Canadian border. A lower VHI in this key region of spring wheat production is also consistent with a slower-than-normal pace of planting.

Developmentally, the 2019 winter wheat crop is slightly behind last year's pace with 83 percent of the crop headed as of the week ending June 9 compared to 90 percent in 2018 and a 5-year average of 91 percent. Winter wheat production for 2019 is currently forecast at 1,274.5 million bushels, up less than 1 percent from the May forecast and up about 90 million bushels (less than 1 percent) from 2018.

Figure 2: U.S. vegetation health index affirms NASS winter wheat condition ratings



Sources: Dr. Felix Kogan et al, NOAA/NESDIS, Center for Satellite Applications and Research and USDA, World Agricultural Outlook Board, Agricultural Weather and Assessments Group.

Net gains in winter wheat production, month-to-month, are supported by a 14-million-bushel increase in hard red winter (HRW) wheat production. Yield hikes in a key HRW-producing State, Kansas, along with yield gains for Oklahoma and Montana, help to support the increase. Based on improving yields, HRW production is up 2 percent from the May forecast to 794 million bushels.

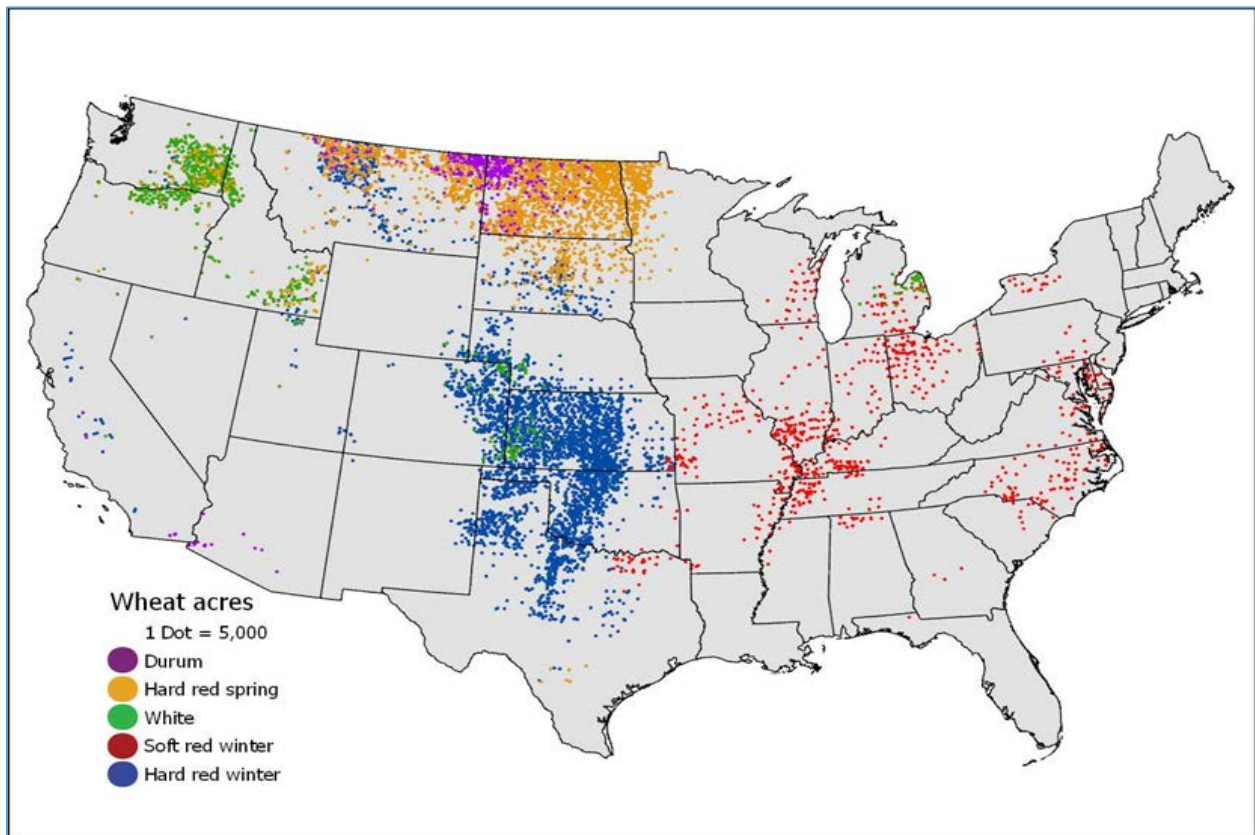
For other classes of winter wheat, including SRW and both hard and soft white winter wheat, NASS projects production down month-to-month. Yield reductions are reported for States where SRW production is concentrated (fig. 3) and include Missouri (down 5 bushels per acre from May), Ohio (down 6 bushels), Indiana (down 4 bushels), and Illinois (down 2 bushels). Areas of concentrated SRW production have been beset by persistent rains and cooler-than-normal temperatures, reportedly resulting in delayed maturation and some crop stress, as evidenced by these month-to-month yield declines. Estimates for harvested area by class will be updated in



the late June *Acreage* report. SRW production is currently forecast at 258 million bushels and down from production of 285 million in 2018. White winter wheat is currently forecast at 222 million bushels, down from 236 million harvested in 2018.

<b>2018/19</b>	<b>HRW</b>	<b>SRW</b>	<b>White Winter</b>	<b>Total Winter</b>
Planted area (million acres)	22.923	6.076	3.536	32.535
Harvested area (million acres)	16.947	4.469	3.326	24.742
Production (million bushels)	662.249	285.558	236.132	1,183.939
<b>2019/20</b>				
Planted area (million acres)	22.407	5.55	3.547	31.504
Harvested area (million acres)	17.764	4.08	3.369	25.214
Production (million bushels)	794.395	258.302	221.754	1,274.451

**Figure 3: U.S. Wheat by Class, Area Planted 2017**



Sources: USDA, Farm Services Agency planted and failed acreage data and USDA, Economic Research Services calculations.

## Other Spring Wheat and Durum Production

In July, USDA-NASS will release its first projection of other spring wheat and aggregate durum production for the 2019/20 marketing year. Current projections are based on planting intentions reported in the March *Prospective Plantings* report and 10-year trend yields and harvested-to-

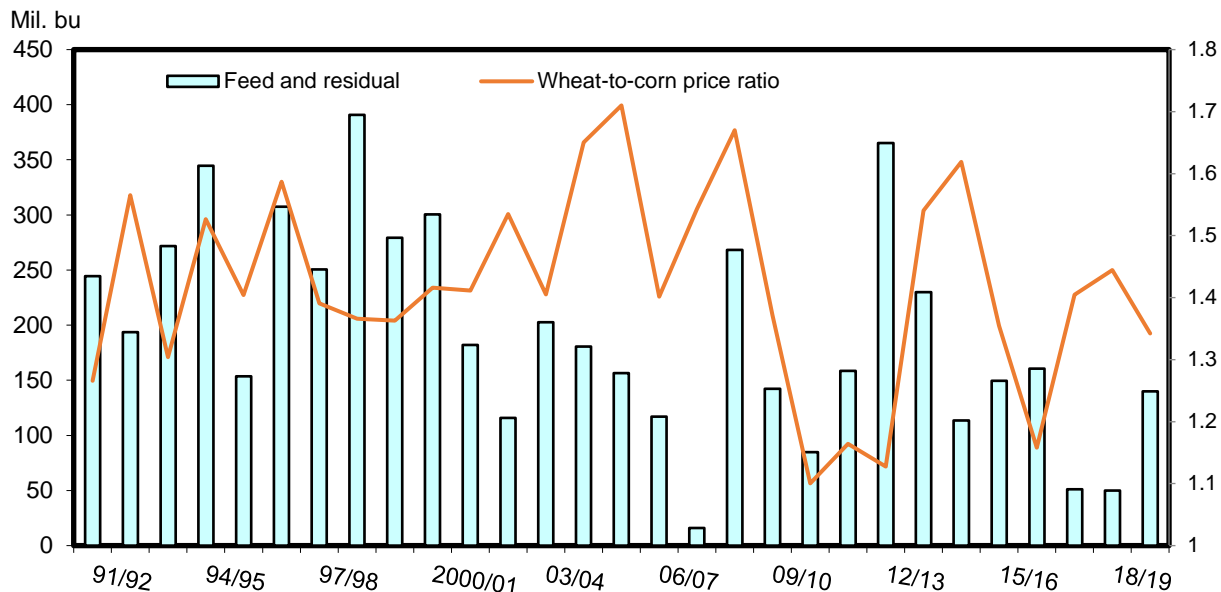
planted ratios. Only desert durum production, which represents approximately 15 percent of all Durum grown in the U.S., was updated in the June *Crop Production* report. In this report, NASS indicated that production in Arizona is down sharply year-to-year and forecast at 3.978 million bushels or roughly 54 percent of the volume grown in 2018. Production gains for California where roughly 4 million bushels and partly offset declines in Arizona. Based on the May-to-June reduction in desert Durum production, the aggregate Durum figure is trimmed slightly, down 194,000 bushels to 50.514 million. If realized, this will be smallest Durum crop realized since 2011 when farmers harvested 47.04 million bushels.

## 2019/20 All-Wheat Balance Sheet Tightened on Lower Carryin and Expanded Feeding

Ending stocks for the 2019/20 marketing year are lowered nearly 70 million bushels from the June forecast on expectations for lower carryout from the 2018/19 marketing year and increased domestic utilization. Most significantly, wheat feed and residual in the new marketing year is increased by 50 million bushels to 140 million. This increase is based on sharply lower corn production and an associated cut to corn feed and residual.

Wet conditions have plagued plantings in several key States during the 2019 corn planting window. For the week ending June 9, just 83 percent of the anticipated 2019 acreage of corn had been planted, far behind the 5-year average of 99 percent. Corn production for 2019/20 is forecast to decline 1.4 billion bushels to 13.7 billion, which if realized would be the lowest since 2015/16. On reduced corn supplies, corn feed is lowered 300 million bushels, month-to-month, opening the door for more abundant marketing opportunities for feed wheat in strategic locations. Based on a significantly-tightened balance sheet, the corn price is raised 50 cents this month to \$3.80 per bushel. On support from the corn price, the wheat season average farm price (SAFP) is raised 40 cents to \$5.10 per bushel. With the SAFP for both crops increasing, though with corn's proportional and absolute increase being greater than wheat's, the wheat-to-corn price ratio is improved month-to-month and reflective of more favorable conditions for wheat feeding (fig. 4).

**Figure 4: U.S. wheat feed and residual set to rebound on lowered wheat-corn-price ratio**



Sources: USDA, World Agricultural Outlook Board, WASDE and USDA, Economic Research Service calculations.

## Balance Sheet Adjustments for 2018/19

In early June, the U.S. Census Bureau released wheat export data through the April of the 2018/19 marketing year. This data, in combination with weekly exports inspections data informs a 25-million-bushel upward revision to the 2018/19 all-wheat export projection. Now forecast at 950 million bushels, the pace of sales indicated by the data support the following revisions: HRW up 15 million bushels to 340 million, hard red spring (HRS) up 5 million bushels to 260 million, SRW up 5 million bushels to 130 million. Imports are unchanged in aggregate with very slight adjustments made for HRW (up 1 million bushels) and HRS (down 1 million bushels). Increased utilization via expanded exports for 2018/19 result in lower ending stocks, down 25 million bushels to 1,101.8. With the vast majority of the 2018/19 wheat crop marketed, the slight adjustment to stocks does not affect the all-wheat SAFP.



# International Outlook

## 2019/20 Foreign Wheat Production Down

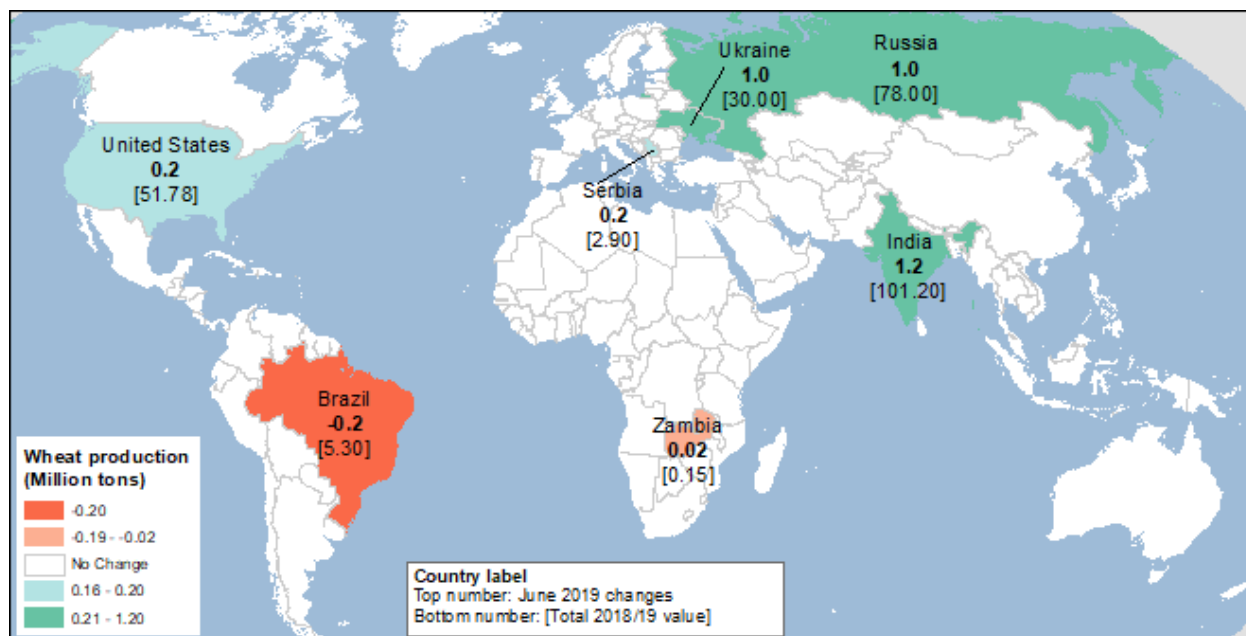
Global wheat production in 2019/20 is projected to reach a new record of 780.8 million tons, up 3.3 million this month. This figure is 49.1 million tons higher than last year and 18.9 million tons above the 2017/18 record. Most of the increase, both monthly and yearly, is in foreign (world minus the U.S.) wheat production. Two major wheat grain exporters—Russia and Ukraine—as well as India, have seen their production prospects increased. For information and visual display of changes in wheat output, see table A and map A.

**Table A - Wheat production at a glance (2019/20), June 2019**

	Country or region	Crop year	Production	Change from previous month <sup>1</sup>	YoY <sup>2</sup> change	Comments
			<i>Million tons</i>			
↑	<b>World</b>	<i>Various</i>	<b>780.8</b>	<b>+3.3</b>	<b>+49.1</b>	
↑	<b>Foreign</b>	<i>Various</i>	<b>728.8</b>	<b>+3.0</b>	<b>+48.6</b>	Higher projected output for Russia, Ukraine, and India drives up wheat production for foreign countries.
↑	<b>United States</b>	<i>June-May</i>	<b>51.8</b>	<b>+0.2</b>	<b>+0.5</b>	See section on U.S. domestic wheat.
↑	<b>Russia</b>	<i>July-June</i>	<b>78.0</b>	<b>+1.0</b>	<b>+6.3</b>	Winter wheat in the European part of the country is in the filling stage, and Vegetation Health Index (VHI) analysis indicates better crop development and higher yields compared to the trend yield forecast last month.
↑	<b>Ukraine</b>	<i>July-June</i>	<b>30.0</b>	<b>+1.0</b>	<b>+5.0</b>	Wheat yields are forecast higher this month based on the latest VHI analysis. Timely rains ensure excellent levels of soil moisture and are expected to result in record-high yields.
↑	<b>India</b>	<i>Apr-Mar</i>	<b>101.2</b>	<b>+1.2</b>	<b>+1.3</b>	Wheat has already been harvested, and wheat yields and production are projected at record-high, reflecting the Government estimates.
	<b>EU<sup>3</sup></b>	<i>July-June</i>	<b>153.8</b>	<b>No change</b>	<b>+16.6</b>	Although wheat output for the total region is unchanged this month, multiple changes are fully offsetting with updated EU country data. Wheat output is projected up for Romania, Italy, and Poland. The increase is fully offset by lower output in Spain, France, and the United Kingdom which are affected by dry conditions.
↑	<b>Serbia</b>	<i>July-June</i>	<b>2.9</b>	<b>+0.2</b>	<b>-0.5</b>	Excellent growing conditions warrant increase in yields.
↓	<b>Brazil</b>	<i>Oct-Sep</i>	<b>5.3</b>	<b>-0.2</b>	<b>-0.1</b>	Lower projected wheat area for the states of Parana and Rio Grande do Sul. A reduction is based on the states' farmer surveys. Wheat planting is still ongoing.

<sup>1</sup>Change from previous month's forecast. Changes of less than 0.2 million tons are also made for several countries; see map A.  
<sup>2</sup>YoY: year-over-year changes. <sup>3</sup>EU - European Union.  
Source: USDA, Foreign Agricultural Service, Production, Supply, and Distribution online database.

**Map A – Wheat production changes for 2019/20, June 2019**

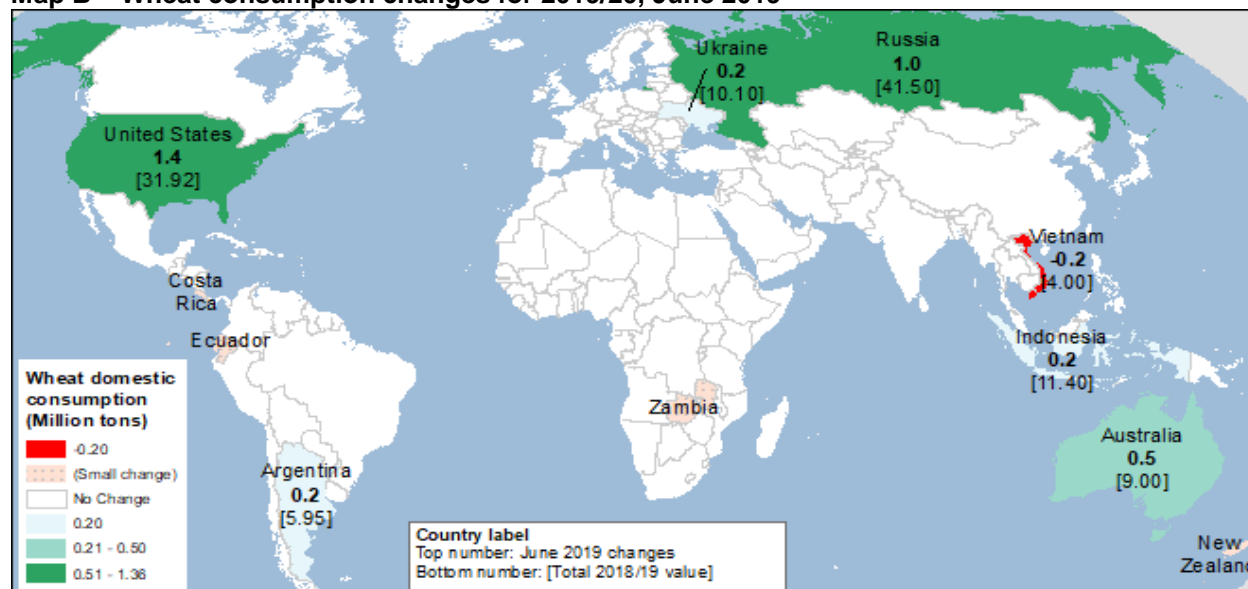


Source: USDA, Foreign Agricultural Service, Production, Supply, and Distribution online database.

## Foreign Wheat Consumption Is Projected Higher

World wheat use in 2019/20 is projected up 3.6 million tons this month, while foreign consumption is up 2.2 million tons. In addition to higher projected U.S. feed, the largest increase in wheat consumption is for Russia, where both domestic consumption categories of wheat—feed and residual use and food, seed, and industrial (FSI) use—are up for a total of 1.0 million tons, following higher production prospects. Feed and residual use for Australia is also projected higher this month, up 0.5 million tons. This is due to the assumption of moderate recovery of the livestock herds hit by the drought of 2018/19 that will require additional grain feeding while pastures are still insufficient to move the livestock out of feedlots. Feed consumption is also projected higher for Ukraine (higher projected output) and Indonesia. In the latter, the share of wheat in feed continues to increase. While the Indonesian Government is pursuing a goal of corn self-sufficiency and thereby restricting imports, the country is increasingly satisfying its growing domestic feed demand with low-quality wheat from Ukraine and Russia. Small adjustments for wheat consumption are also made for a number of other countries. For additional information on this month's changes in wheat domestic consumption, see map B.

**Map B – Wheat consumption changes for 2019/20, June 2019**



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

## Wheat Ending Stocks Projected Higher

The projected increase in world wheat supplies (higher projected production and larger beginning stocks) exceeds the rise in consumption, which leads to higher estimates for global ending stocks. Stocks are now projected to increase to a record 294.3 million tons, up 1.3 million tons from last month.

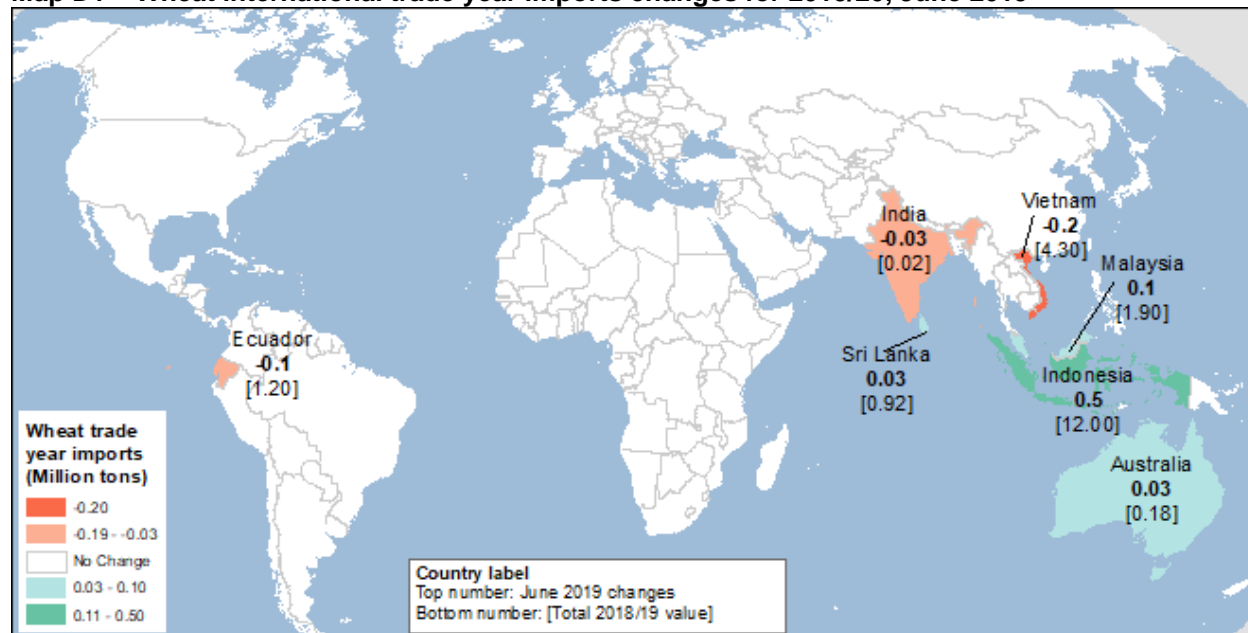
Wheat stocks are boosted this month across the board, the United States being one of the few countries with lower projected stocks (down 1.9 million tons; see domestic section of the report). The largest increase is projected in India, up 1.3 million tons—given the higher Indian wheat production estimate—with its wheat stocks surpassing 20 million tons. Greater projected output push Ukrainian stocks up 0.6 million tons, while higher supplies in Argentina (beginning stocks) and Indonesia (beginning stocks and imports) move ending stocks up by a projected 0.4 million tons. Multiple smaller changes in stocks are made this month as a result of specific countries' production and trade revisions.

## Record Wheat Trade for 2019/20 Got Marginally Higher

Projected record world wheat trade for the international 2019/20 July–June trade year is projected slightly higher, up 0.3 million tons this month, to 183.9 million. Import prospects are adjusted 0.5 million tons higher for Indonesia, where imports are expected to increase further

based on the current pace and the Government policies ([see above](#)), and in Malaysia. For a visual information on this month's changes in 2019/20 wheat exports, see map D1.

**Map D1 – Wheat international trade year imports changes for 2019/20, June 2019**



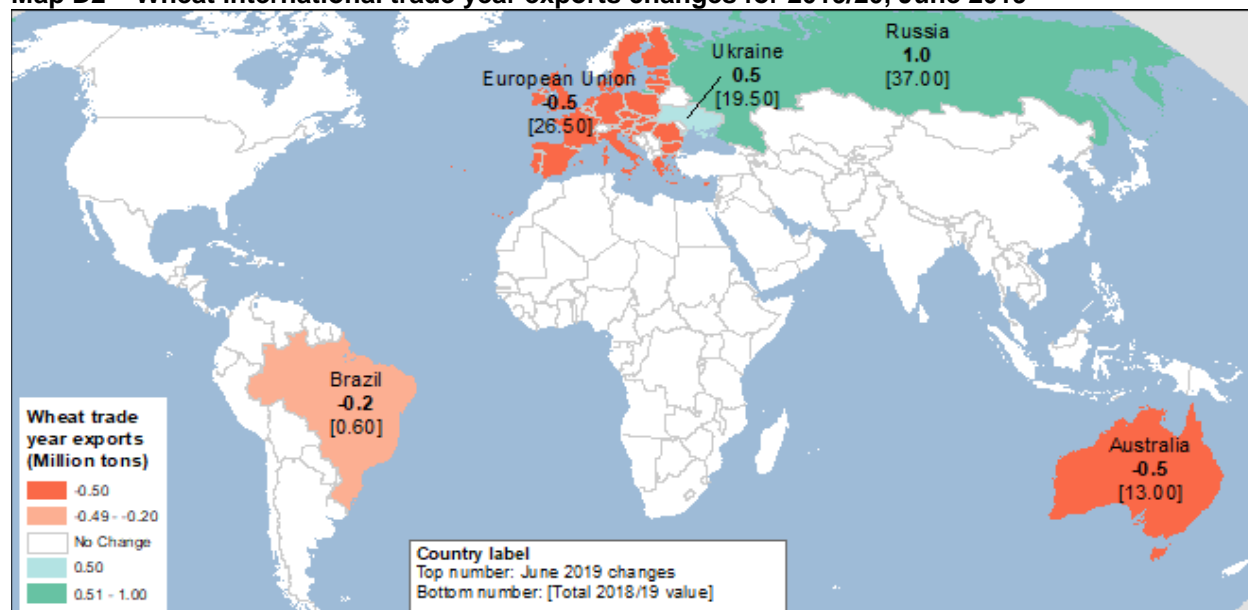
Source: USDA, Foreign Agricultural Service, Production, Supply and Distribution online database.

Projected 2019/20 wheat exports by Russia are increased 1.0 million tons this month to 37.0 million, due to expected higher production of winter wheat in the southern part of the country. By virtue of being close to ports, this region is by far Russia's main exporting territory and is often considered an indicator for the export outlook for Russian wheat. Russia is expected to remain the dominant wheat exporter, far ahead of the country's main export competitors. With an increased production outlook, exports are also boosted for Ukraine, up 0.5 million tons to reach a record of 19.5 million. Both countries are expected to remain price competitive vis-à-vis major wheat exporters, with declining domestic prices and currency depreciation.

Larger supplies and increased competition from Russia and Ukraine are expected to reduce export prospects for their main competitors, the European Union (EU) being the first to take a cut. The EU is expected to export 0.5 million tons less wheat. Australian exports are also reduced by 0.5 million tons. In the first quarter of the 2019/20 international trade year (July–September), which is the same as the last quarter of the local 2018/19 marketing year (October–September), Australia is expected to have sharp cuts in exports in the tail end of the drought year of 2018/19. In addition, the country has been losing its traditional customers in Southeast Asia (Indonesia and Vietnam) to the Black Sea suppliers. These customers are adjusting their quality requirements to the lower-grade but less expensive Black Sea wheat.

Export prospects are also reduced for Brazil, reflecting lower wheat output. For a visual information on this month's changes in 2019/20 wheat exports, see map D2.

**Map D2 – Wheat international trade year exports changes for 2019/20, June 2019**



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

## For 2018/19 U.S Exports Projected Higher

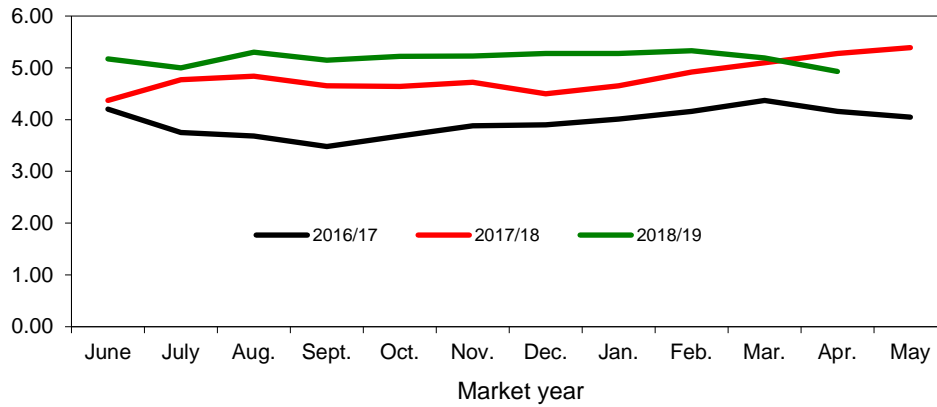
Additional changes in wheat exports for the international 2018/19 trade year that ends in June 2019 involve sizeable shifts and modifications, with total trade down 1.5 million tons. As the end of the international July–June trade year is approaching, the changes are mostly based on the pace of trade. Russian exports are reduced, down 1.0 million tons to 36.0 million. Exports are also projected down 0.3 million tons for Ukraine, which reportedly is facing problems with rail transportation. Other reductions involve Argentina (down 0.5 million tons to 12.5), Australia, (down 0.2 million tons to 9.8 million, the lowest since the drought of 2007/08), and Brazil (down 0.2 million tons).

The U.S. wheat export forecast for the international 2018/19 July–June trade year is increased 0.5 million tons to 26.8 million (up 25 million bushels to 950 million for the June–May U.S. marketing year). The high pace of shipments in May supports this reduction. Census data from July 2018 through April 2019 indicate that wheat grain shipments reached 20.6 million tons, while May 2019 wheat inspections were just a bit under 3.0 million tons. Given that flour and product exports on a wheat-equivalent basis are expected to be about 0.6 million tons for the year, June 2019 exports would have to reach about 2.6 million tons to fulfill the forecast.

Figure 1

**All-wheat average prices received by farmers**

Dollars per bushel

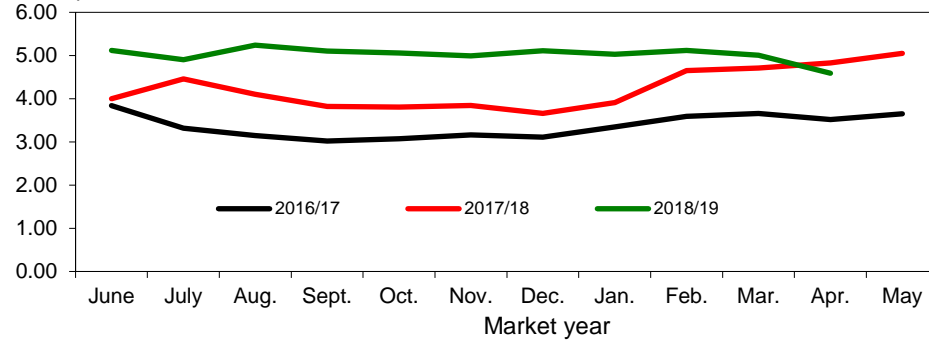


Source: USDA, National Agricultural Statistics Service, *Agricultural Prices*.

Figure 2

**Hard red winter wheat average prices received by farmers**

Dollars per bushel

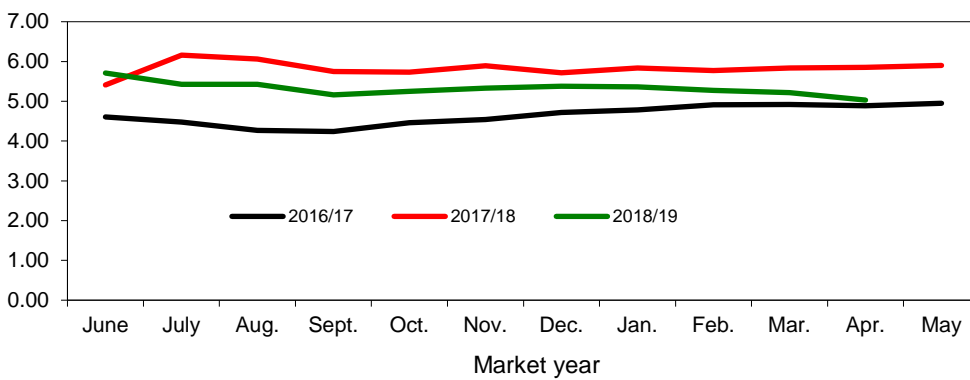


Source: USDA, National Agricultural Statistics Service, *Agricultural Prices*.

Figure 3

**Hard red spring wheat average prices received by farmers**

Dollars per bushel



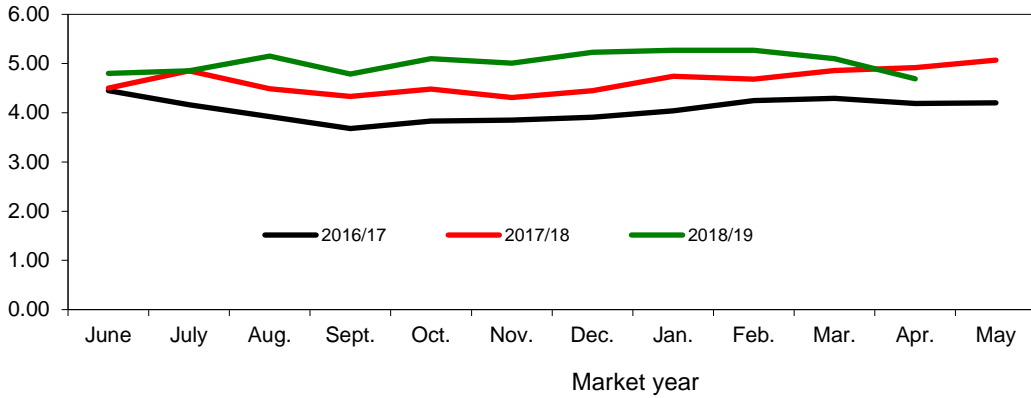
Source: USDA, National Agricultural Statistics Service, *Agricultural Prices*.



Figure 4

**Soft red winter wheat average prices received by farmers**

Dollars per bushel

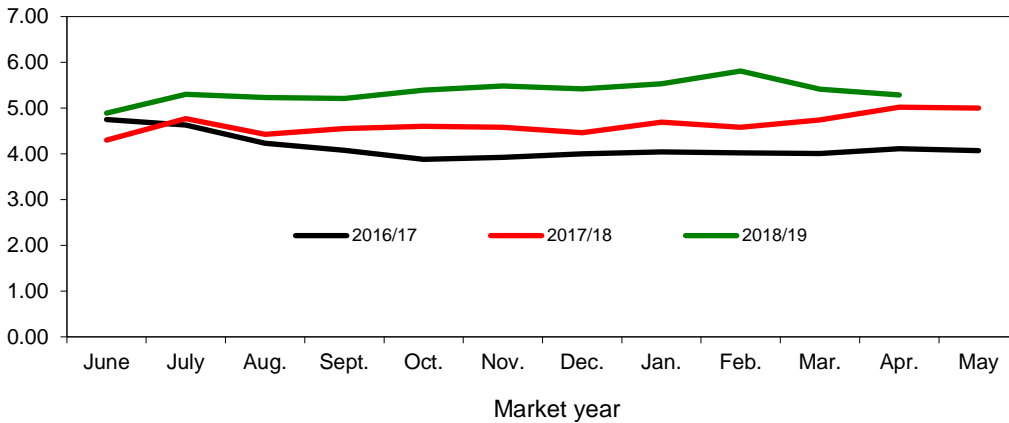


Source: USDA, National Agricultural Statistics Service, *Agricultural Prices*.

Figure 5

**Soft white wheat average prices received by farmers**

Dollars per bushel

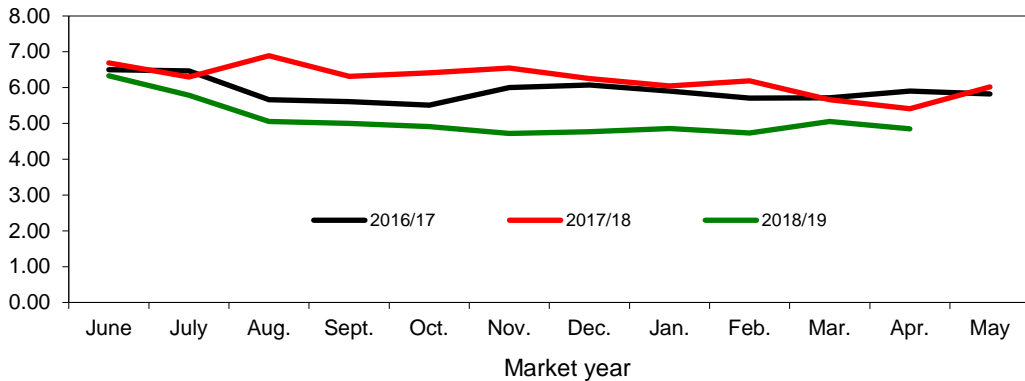


Source: USDA, National Agricultural Statistics Service, *Agricultural Prices*.

Figure 6

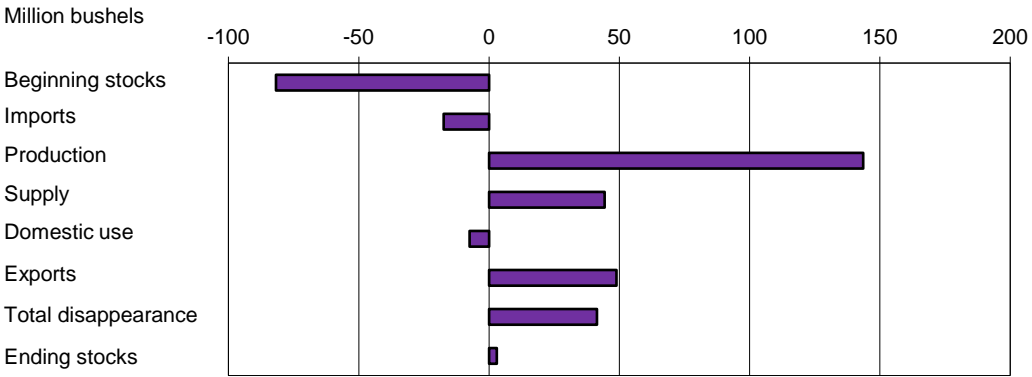
**Durum wheat average prices received by farmers**

Dollars per bushel



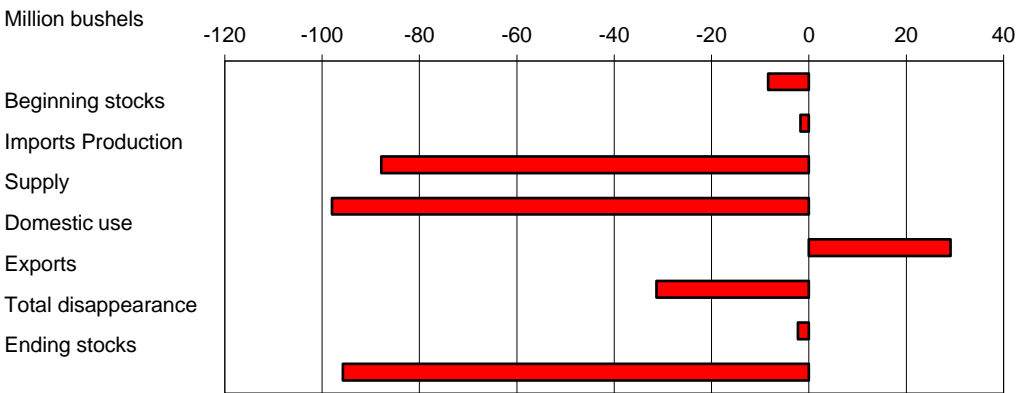
Source: USDA, National Agricultural Statistics Service, *Agricultural Prices*.

Figure 7  
**All wheat: U.S. supply and disappearance change from prior market year**



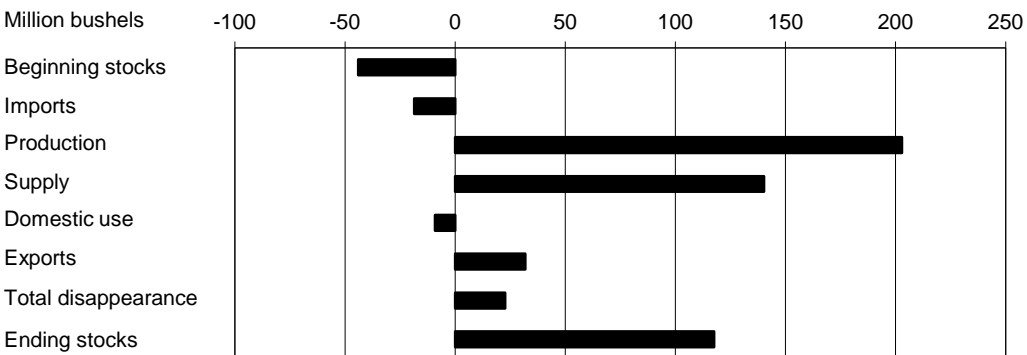
Source: USDA, World Agricultural Outlook Board, *World Agricultural Supply and Demand Estimates*.

Figure 8  
**Hard red winter wheat: U.S. supply and disappearance change from prior market year**



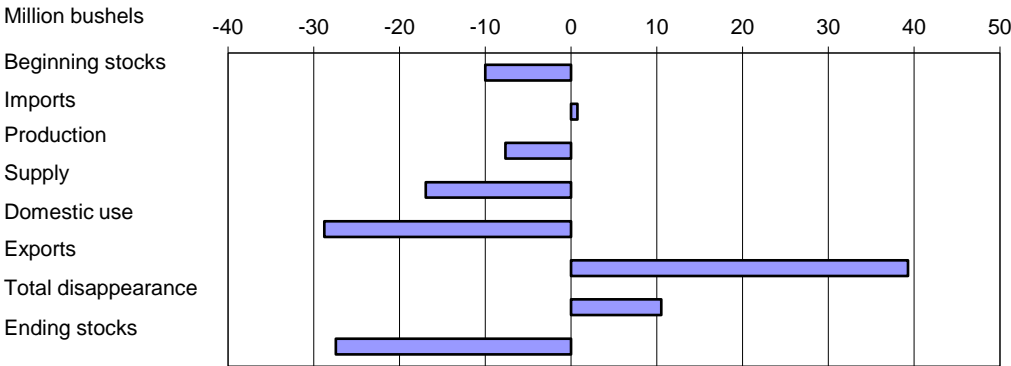
Source: USDA, World Agricultural Outlook Board, *World Agricultural Supply and Demand Estimates*.

Figure 9  
**Hard red spring wheat: U.S. supply and disappearance change from prior market year**



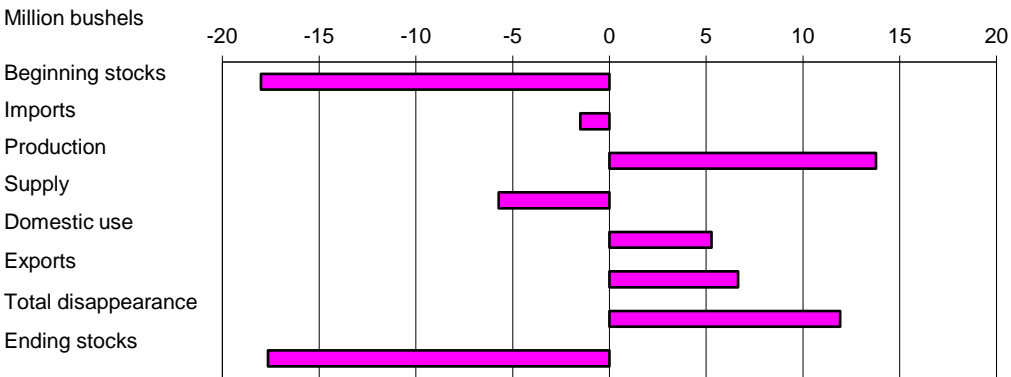
Source: USDA, World Agricultural Outlook Board, *World Agricultural Supply and Demand Estimates*.

Figure 10  
**Soft red winter wheat: U.S. supply and disappearance change from prior market year**



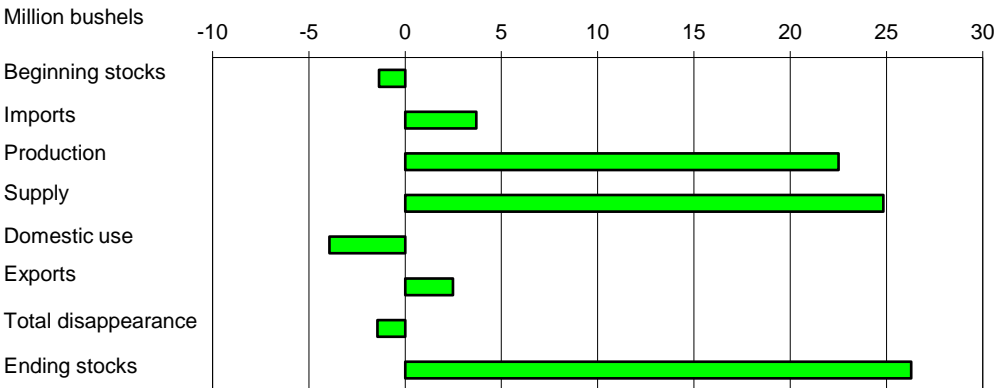
Source: USDA, World Agricultural Outlook Board, *World Agricultural Supply and Demand Estimates*.

Figure 11  
**White wheat: U.S. supply and disappearance change from prior market year**



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

Figure 12  
**Durum: U.S. supply and disappearance change from prior market year**



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

Table 1--Wheat: U.S. market year supply and disappearance, 6/12/2019

Item and unit		2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
Area:								
Planted	Million acres	56.2	56.8	55.0	50.1	46.1	47.8	45.8
Harvested	Million acres	45.3	46.4	47.3	43.8	37.6	39.6	39.0
Yield	Bushels per acre	47.1	43.7	43.6	52.7	46.4	47.6	48.7
Supply:								
Beginning stocks	Million bushels	717.9	590.3	752.4	975.6	1,180.6	1,098.9	1,101.8
Production	Million bushels	2,135.0	2,026.3	2,061.9	2,308.7	1,740.9	1,884.5	1,902.7
Imports <sup>1</sup>	Million bushels	172.5	151.2	112.8	118.0	157.4	140.0	140.0
Total supply	Million bushels	3,025.3	2,767.8	2,927.1	3,402.3	3,078.9	3,123.3	3,144.5
Disappearance:								
Food use	Million bushels	955.1	958.3	957.2	948.9	964.4	960.0	965.0
Seed use	Million bushels	73.7	79.4	67.2	61.3	63.4	61.5	68.0
Feed and residual use	Million bushels	230.1	113.4	149.4	160.6	51.2	50.0	140.0
Total domestic use	Million bushels	1,258.8	1,151.1	1,173.8	1,170.8	1,079.0	1,071.5	1,173.0
Exports <sup>1</sup>	Million bushels	1,176.2	864.3	777.8	1,050.9	901.1	950.0	900.0
Total disappearance	Million bushels	2,435.1	2,015.4	1,951.5	2,221.7	1,980.1	2,021.5	2,073.0
Ending stocks	Million bushels	590.3	752.4	975.6	1,180.6	1,098.9	1,101.8	1,071.5
CCC inventory	Million bushels	--	--	--	--	--	--	--
Stocks-to-use ratio		24.2	37.3	50.0	53.1	55.5	54.5	51.7
Loan rate	Dollars per bushel	2.94	2.94	2.94	2.94	2.94	2.94	2.94
Contract/direct payment rate	Dollars per bushel	72.80	56.40	56.40	56.50	56.50	56.50	40.00
Farm price <sup>2</sup>	Dollars per bushel	6.87	5.99	4.89	3.89	4.72	5.20	5.10
Market value of production	Million dollars	14,604	11,915	10,203	8,981	8,217	9,799	9,704

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

<sup>1</sup> Includes flour and selected other products expressed in grain-equivalent bushels.

<sup>2</sup> U.S. season-average price based on monthly prices weighted by monthly marketings. Prices do not include an allowance for loans outstanding and government purchases.

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

Date run: 6/12/2019

Table 2--Wheat by class: U.S. market year supply and disappearance, 6/12/2019

Market year, item, and unit		All wheat	Hard red winter <sup>1</sup>	Hard red spring <sup>1</sup>	Soft red winter <sup>1</sup>	White <sup>1</sup>	Durum	
2017/18	Area:							
	Planted acreage	Million acres	46.05	23.43	10.51	5.76	4.05	2.31
	Harvested acreage	Million acres	37.56	17.64	9.65	4.33	3.83	2.11
	Yield	Bushels per acre	46.36	42.53	39.80	67.70	67.53	26.01
	Supply:							
	Beginning stocks	Million bushels	1,180.60	589.30	235.00	215.00	105.00	36.30
	Production	Million bushels	1,740.91	750.13	384.19	293.22	258.59	54.78
	Imports <sup>2</sup>	Million bushels	157.43	6.75	87.59	4.28	7.50	51.31
	Total supply	Million bushels	3,078.94	1,346.19	706.78	512.50	371.08	142.39
	Disappearance:							
	Food use	Million bushels	964.39	391.71	254.00	154.00	85.00	79.68
	Seed use	Million bushels	63.35	25.58	17.98	11.58	5.26	2.96
	Feed and residual use	Million bushels	51.22	-23.36	15.62	51.18	.47	7.31
	Total domestic use	Million bushels	1,078.95	393.93	287.60	216.77	90.72	89.94
	Exports <sup>2</sup>	Million bushels	901.10	371.31	228.18	90.74	193.36	17.51
	Total disappearance	Million bushels	1,980.05	765.24	515.78	307.50	284.08	107.44
	Ending stocks	Million bushels	1,098.89	580.94	191.00	205.00	87.00	34.95
2018/19	Area:							
	Planted acreage	Million acres	47.80	22.92	12.69	6.08	4.05	2.07
	Harvested acreage	Million acres	39.61	16.95	12.40	4.47	3.82	1.97
	Yield	Bushels per acre	47.58	39.08	47.33	63.90	71.32	39.29
	Supply:							
	Beginning stocks	Million bushels	1,098.89	580.94	191.00	205.00	87.00	34.95
	Production	Million bushels	1,884.46	662.25	587.01	285.56	272.36	77.29
	Imports <sup>2</sup>	Million bushels	140.00	5.00	69.00	5.00	6.00	55.00
	Total supply	Million bushels	3,123.35	1,248.19	847.01	495.56	365.36	167.23
	Disappearance:							
	Food use	Million bushels	960.00	388.00	256.00	152.00	85.00	79.00
	Seed use	Million bushels	61.50	25.00	17.50	11.00	6.00	2.00
	Feed and residual use	Million bushels	50.00	10.00	5.00	25.00	5.00	5.00
	Total domestic use	Million bushels	1,071.50	423.00	278.50	188.00	96.00	86.00
	Exports <sup>2</sup>	Million bushels	950.00	340.00	260.00	130.00	200.00	20.00
	Total disappearance	Million bushels	2,021.50	763.00	538.50	318.00	296.00	106.00
	Ending stocks	Million bushels	1,101.85	485.19	308.51	177.56	69.36	61.23

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

<sup>1</sup> Area and yield data are unpublished National Agricultural Statistics Service data. Supply and disappearance data, except production, are approximations.

<sup>2</sup> Includes flour and selected other products expressed in grain-equivalent bushels.

Source: USDA, National Agricultural Statistics Service, Crop Production and unpublished data; and USDA, World Agricultural Outlook Board, World Agricultural Supply and Demand Estimates and supporting materials.

Date run: 6/12/2019

Table 3--Wheat: U.S. quarterly supply and disappearance (million bushels), 6/12/2019

Market year and quarter		Production	Imports <sup>1</sup>	Total supply	Food use	Seed use	Feed and residual use	Exports <sup>1</sup>	Ending stocks
2011/12	Jun-Aug	1,993	21	2,877	230	5	201	295	2,147
	Sep-Nov		32	2,179	244	51	-16	238	1,663
	Dec-Feb		30	1,693	231	1	44	217	1,199
	Mar-May		30	1,229	236	19	-70	301	743
	Mkt. year	1,993	113	2,969	941	76	159	1,051	743
2012/13	Jun-Aug	2,252	26	3,020	238	1	403	264	2,115
	Sep-Nov		33	2,148	247	55	-22	198	1,671
	Dec-Feb		35	1,705	229	1	5	235	1,235
	Mar-May		31	1,266	238	15	-20	315	718
	Mkt. year	2,252	124	3,119	951	73	365	1,012	718
2013/14	Jun-Aug	2,135	36	2,889	235	4	422	358	1,870
	Sep-Nov		48	1,918	249	53	-168	309	1,475
	Dec-Feb		42	1,517	231	2	-1	228	1,057
	Mar-May		47	1,104	240	15	-24	282	590
	Mkt. year	2,135	172	3,025	955	74	230	1,176	590
2014/15	Jun-Aug	2,026	44	2,661	239	6	256	253	1,907
	Sep-Nov		35	1,942	248	49	-93	208	1,530
	Dec-Feb		37	1,566	231	2	8	185	1,140
	Mar-May		36	1,176	240	22	-58	219	752
	Mkt. year	2,026	151	2,768	958	79	113	864	752
2015/16	Jun-Aug	2,062	27	2,841	240	1	298	205	2,097
	Sep-Nov		27	2,124	249	44	-107	192	1,746
	Dec-Feb		34	1,780	230	2	2	175	1,372
	Mar-May		25	1,397	239	20	-43	205	976
	Mkt. year	2,062	113	2,927	957	67	149	778	976
2016/17	Jun-Aug	2,309	33	3,317	238	1	266	268	2,545
	Sep-Nov		29	2,575	245	41	-30	239	2,079
	Dec-Feb		25	2,104	228	1	-13	229	1,659
	Mar-May		31	1,690	238	19	-62	315	1,181
	Mkt. year	2,309	118	3,402	949	61	161	1,051	1,181
2017/18	Jun-Aug	1,741	42	2,964	239	1	165	292	2,267
	Sep-Nov		36	2,303	251	40	-55	194	1,874
	Dec-Feb		37	1,911	233	2	-14	195	1,495
	Mar-May		42	1,537	242	21	-45	221	1,099
	Mkt. year	1,741	157	3,079	964	63	51	901	1,099
2018/19	Jun-Aug	1,884	42	3,025	239	2	190	203	2,390
	Sep-Nov		31	2,420	247	37	-79	206	2,009
	Dec-Feb		32	2,042	229	1	-23	244	1,591
	Mkt. year	1,884	140	3,123	960	62	50	950	1,102
2019/20	Mkt. year	1,903	140	3,145	965	68	140	900	1,072

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

<sup>1</sup> Includes flour and selected other products expressed in grain-equivalent bushels.

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

Date run: 6/12/2019



Table 4--Wheat: Monthly food disappearance estimates (1,000 grain-equivalent bushels), 6/12/2019

Mkt year and month 1/	Wheat ground for flour	+	Food imports <sup>2</sup>	+	Nonmilled food use <sup>3</sup>	-	Food exports <sup>2</sup>	=	Food use <sup>4</sup>
2017/18	Jun	73,183		3,242		2,000		1,849	76,576
	Jul	74,520		2,964		2,000		1,794	77,689
	Aug	81,444		3,148		2,000		2,088	84,505
	Sep	78,315		2,620		2,000		1,462	81,473
	Oct	82,325		3,239		2,000		1,167	86,397
	Nov	78,798		3,218		2,000		1,301	82,714
	Dec	73,964		2,934		2,000		1,569	77,329
	Jan	74,607		3,075		2,000		1,423	78,259
	Feb	74,014		2,948		2,000		1,589	77,374
	Mar	78,526		3,197		2,000		1,571	82,152
	Apr	75,525		3,259		2,000		1,432	79,351
	May	77,221		3,087		2,000		1,742	80,566
2018/19	Jun	73,881		2,921		2,000		1,689	77,113
	Jul	74,093		2,968		2,000		1,346	77,716
	Aug	80,978		3,103		2,000		1,584	84,497
	Sep	77,867		2,626		2,000		1,675	80,818
	Oct	81,125		3,361		2,000		1,779	84,707
	Nov	77,650		3,060		2,000		1,602	81,108
	Dec	72,886		3,212		2,000		1,664	76,434
	Jan	73,406		3,307		2,000		1,699	77,014
Feb	72,823		2,707		2,000		1,678	75,852	
Mar	77,262		3,305		2,000		1,657	80,909	
Apr	--		2,999		--		1,534	1,465	

<sup>1</sup> Current year is preliminary. Previous year is preliminary through August of current year, estimated afterwards.

<sup>2</sup> Food imports and exports used to calculate total food use. Includes all categories of wheat flour, semolina, bulgur, and couscous and selected categories of pasta.

<sup>3</sup> Wheat prepared for food use by processes other than milling.

<sup>4</sup> Estimated food use equals wheat ground for flour plus food imports plus nonmilled food use minus food exports. See <http://www.ers.usda.gov/Briefing/Wheat/wheatfooduse.htm> for more information.

Source: Data through the 2nd quarter of 2011 was calculated using data from U.S. Department of Commerce, Bureau of the Census' Flour Milling Products (MQ311A) and U.S. Department of Commerce, Bureau of Economic Analysis' Foreign Trade Statistics. Subsequent flour milling calculations are based on data from the North American Millers Association.

Date run: 6/12/2019

Table 5--Wheat: National average price received by farmers (dollars per bushel) , 6/12/2019

Month	All wheat		Winter		Durum		Other spring	
	2017/18	2018/19	2017/18	2018/19	2017/18	2018/19	2017/18	2018/19
June	4.37	5.17	4.11	5.05	6.69	6.33	5.35	5.66
July	4.77	5.00	4.56	4.92	6.30	5.79	6.08	5.41
August	4.84	5.30	4.27	5.23	6.89	5.05	5.86	5.40
September	4.65	5.15	4.11	5.14	6.31	5.00	5.62	5.16
October	4.64	5.22	4.17	5.21	6.41	4.91	5.56	5.26
November	4.72	5.23	4.07	5.20	6.55	4.72	5.78	5.33
December	4.50	5.28	3.89	5.24	6.25	4.77	5.62	5.38
January	4.65	5.28	4.15	5.25	6.05	4.86	5.72	5.37
February	4.92	5.33	4.63	5.41	6.19	4.73	5.66	5.29
March	5.10	5.19	4.73	5.15	5.66	5.05	5.74	5.23
April	5.28	4.93	4.90	4.86	5.41	4.85	5.78	5.04
May	5.39		5.05		6.02		5.84	

Source: USDA, National Agricultural Statistics Service, Agricultural Prices.

Table 6--Wheat: National average prices received by farmers by class (dollars per bushel), 6/12/2019

Month	Hard red winter		Soft red winter		Hard red spring		White	
	2017/18	2018/19	2017/18	2018/19	2017/18	2018/19	2017/18	2018/19
June	4.00	5.12	4.50	4.80	5.41	5.71	4.30	4.89
July	4.46	4.90	4.85	4.85	6.16	5.43	4.77	5.30
August	4.10	5.24	4.49	5.15	6.06	5.43	4.43	5.23
September	3.82	5.10	4.33	4.79	5.75	5.16	4.55	5.21
October	3.81	5.06	4.48	5.10	5.73	5.25	4.60	5.39
November	3.84	4.99	4.31	5.01	5.89	5.33	4.58	5.48
December	3.66	5.11	4.45	5.23	5.72	5.38	4.46	5.42
January	3.91	5.03	4.74	5.27	5.84	5.36	4.69	5.53
February	4.65	5.12	4.68	5.27	5.77	5.27	4.58	5.81
March	4.71	5.01	4.86	5.10	5.84	5.22	4.74	5.41
April	4.83	4.59	4.92	4.69	5.85	5.03	5.02	5.29
May	5.05		5.07		5.90		5.00	

Source: USDA, National Agricultural Statistics Service, Agricultural Prices.

Date run: 6/12/2019

Table 7--Wheat: Average cash grain bids at principal markets, 6/12/2019

Month	No. 1 hard red winter (ordinary protein) Kansas City, MO (dollars per bushel)		No. 1 hard red winter (13% protein) Kansas City, MO (dollars per bushel)		No. 1 hard red winter (ordinary protein) Portland, OR (dollars per bushel)		No. 1 hard red winter (ordinary protein) Texas Gulf, TX <sup>1</sup> (dollars per metric ton)	
	2017/18	2018/19	2017/18	2018/19	2017/18	2018/19	2017/18	2018/19
June	5.24	6.35	6.65	6.79	4.53	5.58	189.60	213.85
July	5.65	6.20	7.22	6.66	5.12	5.24	203.74	214.58
August	4.80	6.61	6.28	6.86	4.22	6.25	171.41	230.75
September	5.07	6.03	6.52	6.18	4.81	5.93	178.76	212.93
October	5.11	6.11	6.24	6.26	5.03	6.14	175.82	213.66
November	5.30	6.18	6.84	6.38	4.96	6.14	179.49	203.56
December	5.38	6.36	6.72	6.58	4.84	6.44	183.90	211.09
January	5.73	6.26	6.94	6.38	5.03	6.41	192.17	209.62
February	5.93	6.02	6.89	6.16	5.41	6.21	--	218.63
March	6.05	5.94	6.70	6.06	5.52	5.92	--	205.76
April	6.09	5.61	6.67	5.77	5.64	5.83	213.48	199.52
May	6.56	5.50	7.03	5.73	5.93	5.74	--	--
Month	No. 1 dark northern spring (13% protein) Chicago, IL (dollars per bushel)		No. 1 dark northern spring (14% protein) Chicago, IL (dollars per bushel)		No. 1 dark northern spring (14% protein) Portland, OR (dollars per bushel)		No. 1 hard amber durum Minneapolis, MN (dollars per bushel)	
	2017/18	2018/19	2017/18	2018/19	2017/18	2018/19	2017/18	2018/19
June	--	--	--	--	7.50	6.98	--	--
July	--	--	--	--	8.77	6.58	--	--
August	--	--	--	--	7.74	7.15	--	--
September	--	--	--	--	7.40	6.62	--	--
October	--	--	--	--	7.39	6.76	--	--
November	--	--	--	--	7.52	6.82	--	--
December	--	--	--	--	7.38	6.82	--	--
January	--	--	--	--	7.42	6.67	--	--
February	--	--	--	--	7.29	6.70	--	--
March	--	--	--	--	7.40	6.76	--	--
April	--	--	--	--	7.06	6.32	--	--
May	--	--	--	--	7.51	6.28	--	--
Month	No. 2 soft red winter St. Louis, MO (dollars per bushel)		No. 2 soft red winter Chicago, IL (dollars per bushel)		No. 2 soft red winter Toledo, OH (dollars per bushel)		No. 1 soft white Portland, OR (dollars per bushel)	
	2017/18	2018/19	2017/18	2018/19	2017/18	2018/19	2017/18	2018/19
June	4.66	5.16	4.41	4.92	4.44	5.15	4.91	5.92
July	5.15	5.21	4.96	4.98	4.94	5.20	5.40	5.88
August	4.31	5.34	4.12	5.32	4.20	5.48	5.13	6.18
September	4.30	4.79	4.23	4.81	4.27	5.04	5.19	5.98
October	4.16	4.94	4.22	4.88	4.24	5.04	5.30	6.11
November	4.34	5.18	4.13	5.01	4.18	5.00	5.26	6.25
December	4.28	5.48	4.12	5.24	4.04	5.14	5.22	6.23
January	4.38	5.48	4.27	5.20	4.22	5.12	5.30	6.29
February	4.65	5.32	4.55	4.97	4.54	4.95	5.39	6.36
March	4.76	4.84	4.69	4.46	4.75	4.48	5.64	6.10
April	4.75	4.84	4.74	4.43	4.85	4.43	5.63	5.94
May	5.19	4.91	5.08	4.57	5.24	4.50	5.79	5.83

-- = Not available or no quote.

<sup>1</sup> Free on board.Source: USDA, Agricultural Marketing Service, State Grain Reports, <http://www.ams.usda.gov/AMSV1.0/ams.fetchTemplateData.do?template=TemplateS&navID=MarketNewsAndTransportationData&leftNav=MarketNewsAndTransportationData&page=LSMarketNewsPageStateGrainReports>.

Date run: 6/12/2019

Table 8--Wheat: U.S. exports and imports for last 6 months (1,000 bushels), 6/12/2019

Item		Nov 2018	Dec 2018	Jan 2019	Feb 2019	Mar 2019	Apr 2019
Exports	All wheat grain	63,452	82,208	73,601	83,166	72,153	104,252
	All wheat flour <sup>1</sup>	1,188	1,249	1,278	1,266	1,169	1,163
	All wheat products <sup>2</sup>	476	481	453	438	542	406
	Total all wheat	65,117	83,937	75,332	84,870	73,864	105,820
Imports	All wheat grain	6,292	9,429	9,297	4,141	8,824	7,587
	All wheat flour <sup>1</sup>	1,456	1,336	1,572	1,238	1,394	1,341
	All wheat products <sup>2</sup>	1,650	1,908	1,758	1,493	1,932	1,684
	Total all wheat	9,398	12,674	12,626	6,871	12,150	10,612

Totals may not add due to rounding.

<sup>1</sup> Expressed in grain-equivalent bushels. Includes meal, groats, and durum.

<sup>2</sup> Expressed in grain-equivalent bushels. Includes bulgur, couscous, and selected categories of pasta.

Source: U.S. Department of Commerce, U.S. Census Bureau, Foreign Trade Statistics; and ERS calculations using Census trade statistics.

Date run: 6/12/2019

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