



Grain Transportation Report

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WEEKLY HIGHLIGHTS

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CMTS Study Highlights the Importance of Waterway Investment

The U.S. Committee on the Marine Transportation System (CMTS) has released a report produced on the value of investment in the marine transportation system, including both ports and inland waterways. Produced for CMTS by Inforum at the University of Maryland, the study explored four scenarios: one baseline (with continued status quo investment) and three scenarios with increased investment. The researchers found increased investment would yield between 54,700 and 182,500 additional jobs over baseline by 2025 and, by 2030, additional gross domestic product (GDP) over baseline would be \$8 billion to \$41 billion. This outcome represents a \$2-3 return on investment per dollar spent. Citing a 2019 USDA/AMS report on the importance of the inland waterways, the study noted investment in waterway infrastructure is critical to continued U.S. competitiveness in the global soybean trade.

Diesel Fuel Prices Continue To Fall

During the week ending April 13, U.S. on-highway diesel fuel prices fell 4.1 cents per gallon to \$2.507. Prices have fallen each week since January 14, with declines totaling 56.2 cents per gallon, or 19 percent. In March, down \$24 per barrel from average February prices, crude oil prices averaged \$32 per barrel, constituting the lowest monthly average since January 2016. According to the Energy Information Administration's latest *Short-Term Energy Outlook*, crude oil price declines since early 2020 are largely driven by the economic contraction caused by COVID-19. The price declines were also spurred by the sudden increase in crude oil supply after the Organization of the Petroleum Exporting Countries (OPEC) and partner countries suspended previously agreed on production cuts.

FMCSA Extends HOS Emergency Declaration Through May 15

The Department of Transportation's Federal Motor Carrier Safety Administration (FMCSA) will extend its national emergency declaration through May 15, 2020, or until the revocation of the coronavirus disease (COVID-19) national emergency declared by President Donald Trump—whichever is sooner. The extension will sustain relaxed hours-of-service (HOS) regulations for commercial vehicle drivers who transport COVID-19 emergency relief services, such as medical care, or essential materials, such as food, fuel, animal feed, and fertilizer.

FMCSA Waives Knowledge Test for Certain Third-Party CDL Test Examiners

To offset employee shortages and closures of State Driver Licensing Agencies (SDLA) caused by the COVID-19 emergency, FMCSA has issued a waiver easing requirements for commercial driver's license (CDL) test examiners. Under the waiver, third party CDL test examiners previously authorized by their State to administer the CDL skills test are now permitted to administer the CDL knowledge test without completing a CDL knowledge-test training course. The waiver will help meet the need for an adequate and sustained supply of drivers to transport essential services and supplies. The waiver will expire either on June 30, 2020, or when the national emergency declared by President Trump is revoked—whichever is sooner.

Snapshots by Sector

Export Sales

For the week ending April 2, **unshipped balances** of wheat, corn, and soybeans totaled 24.3 million metric tons (mmt). This represented a 23-percent decrease in outstanding sales, compared to the same time last year. Net **corn export sales** were 1.849 mmt, up 72 percent from the past week. Net **soybean export sales** were 0.523 mmt, down 45 percent from the previous week. Net weekly **wheat export sales** were 0.259 mmt, up significantly from the previous week.

Rail

U.S. Class I railroads originated 20,855 grain carloads during the week ending April 4. This was a 6-percent decrease from the previous week, 4 percent less than last year, and 11 percent lower than the 3-year average.

April shuttle secondary railcar bids/offers (per car) averaged \$0 for the week ending April 9. This was \$44 more than last week and \$242 less than this week last year. There were no non-shuttle bids/offers this week.

Barge

For the week ending April 11, **barge grain movements** totaled 661,018. This was 57 percent more than the previous week and 54 percent more than the same period last year.

For the week ending April 4, 427 grain barges **moved down river**—160 more barges than the previous week. There were 549 grain barges **unloaded in New Orleans**, 13 percent less than the previous week.

Ocean

For the week ending April 9, 31 occangoing grain vessels were loaded in the Gulf—11 percent more than the same period last year. Within the next 10 days (starting April 10), 51 vessels were expected to be loaded—11 percent fewer than the same period last year.

As of April 9, the rate for shipping a metric ton (mt) of grain from the U.S. Gulf to Japan was \$38.75. This was unchanged from the previous week. The rate from PNW to Japan was \$19.75 per mt, unchanged from the previous week.

Feature Article/Calendar

Partly Driven by COVID-19 Effects, First-Quarter 2020 Bulk Ocean Freight Rates Fell As Global Dry Bulk Trade Slumped

Many factors combined to slow the global dry bulk trade during first-quarter 2020. These included holidays (New Year and Chinese Lunar Year), weather-related supply disruptions—and of course, the coronavirus disease (COVID-19) outbreak. COVID-19 has delayed manufacturing activities in China and other parts of the world and, in turn, slowed global trade movements of bulk items. Thus, the dry bulk industry is among those most affected by the COVID-19 outbreak worldwide.

The multi-factor slowdown in global bulk movements reduced ocean freight rates for bulk commodities (including grain) from fourth quarter 2019 to first quarter 2020 (quarter to quarter). Despite multiple reasons for the slowdown, its outsized impact on China—including COVID-19's first hot spot in Wuhan—caused much of the slump in bulk trade, leading to lower freight rates. According to Drewry Maritime Research, Inc. (Drewry), China's gross domestic product (GDP) represents 16 percent of the world's GDP, and Chinarepresents 33 percent of the world's dry bulk trade. Hence, any large slowdown in China reverberates globally. We examine the effect of reduced dry bulk trade on bulk ocean freight rates from quarter to quarter, from first quarter 2019 to first quarter 2020 (year to year), and from the 4-year average (table below and figure 1).

During the first quarter, the cost of shipping a metric ton (mt) of grain from the U.S. Gulf to Japan averaged \$43.38, down 10 percent quarter to quarter, but up 6 percent year to year and up 20 percent from the 4-year average. The cost of shipping from the Pacific Northwest (PNW) to Japan averaged \$23.10 per mt, down 12 percent quarter to quarter, but up 1 percent year to year, and up 16 percent from the 4-year average. It cost \$14.82 per mt to ship grain from the U.S. Gulf to Europe, down 22 percent quarter to quarter, down 11 percent year to year, and down 1 percent from the 4-year average.

| Ocean freight rates for gra | ain routes f | first quar | ter 2020 | | | | |
|-----------------------------|--------------|------------|----------|-------------------------|--------------------------|--------------------------|------------|
| Route | Jan. | Feb. | Mar. | 1 st quarter | Change from | | |
| Route | Jan. | | Iviai. | 2020 | 4 th qtr. '19 | 1 st qtr. '19 | 4-yr. avg. |
| | | \$/mt | | \$/mt | | Percent | |
| U.S. Gulf to Japan | 45.45 | 42.88 | 41.81 | 43.38 | -10 | 6 | 20 |
| PNW to Japan | 24.60 | 22.63 | 22.06 | 23.10 | -12 | 1 | 16 |
| Spread* | 20.85 | 20.25 | 19.75 | 20.28 | -8 | 13 | 24 |
| U.S. Gulf to Europe | 16.65 | 14.50 | 13.31 | 14.82 | -22 | -11 | -1 |

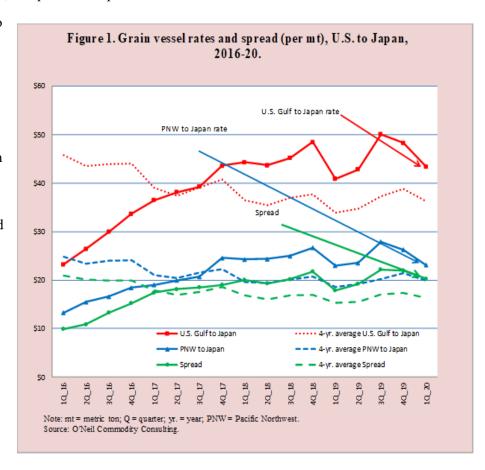
Note: qtr. = quarter; avg = average; mt = metric ton; yr = year; PNW = Pacific Northwest.

*Spread is the difference between ocean freight rates for shipping grain from the U.S. Gulf to Japan and PNW to Japan. Source: O'Neil Commodity Consulting.

As typically happens every year, ocean freight rates started falling with the globally celebrated New Year holidays and continued falling with Chinese Lunar Year holiday (January 25 to February 8). However, additionally, this year, the COVID-19 outbreak began affecting the dry bulk sector in January when the first death from the virus was reported in China. The epicenter of China's outbreak, Wuhan, is a major manufacturing hub that uses steel and aluminum. Consequently, the shutdown of river ports in this region hampered steel production and, likewise, iron ore demand. China's COVID-19 outbreak continued to impact the country's crude steel production and iron ore imports through February and March.

According to Drewry, the effect of China's COVID-19 outbreak on the world economy was more severe than that of the severe acute respiratory syndrome (SARS) outbreak in 2003. In 2003, China's GDP represented only 4 percent of global GDP, versus 16 percent in 2019. Chinese share of global dry bulk trade was 11 percent in 2003, compared to 33 percent in 2018-19.

With COVID-19's spread to other major industrial Nations in the latter part of the quarter, manufacturing and other trade activities slowed around the world. The ongoing lockdown has affected iron ore and coal production in countries such as South Africa and Colombia (per Drewry). A South African company, Anglo America, has reduced its current year's annual production guidance for operations by as much as 1.5-3.5 million tons—less iron ore than the company's actual production in 2019. Meanwhile, guidance for coal production has been reduced by 1.5-2.0 million tons. Additionally, heavy rains in one of Brazil's major iron-ore-producing regions curtailed iron ore supply.



Current Market Analysis and Outlook

For the week ending April 9, the rate for shipping a metric ton (mt) of grain from the U.S. Gulf to Japan was \$38.75—15 percent less than January 2 (first available rate in 2020) and 8 percent less than the same week last year. The rate from PNW to Japan was \$19.75 per mt—21 percent less than January 2 and 16 percent less than the same week last year. Despite COVID-19's downward pressure on dry bulk trade and bulk ocean freight rates, the pandemic may, also, drive up ocean freight rates in the medium or long term. For example, the pandemic affects shipbuilding activities in the Far East countries like China, South Korea, and Japan, which account for 97 percent of order books. This could reduce vessel delivery.

In 2020, of the 55 million deadweight tons (mdwt) of dry bulk vessels scheduled for delivery worldwide, 30.5 million mdwt are built in China (according to Drewry). Roughly 56 percent of scheduled delivery in 2020, China's share of that total is projected to increase to 67 percent in 2021. Besides the slowdown in shipbuilding activities, a greater reluctance by ship owners to take deliveries may further reduce vessel supply. In fact, only 1.8 mdwt of vessel capacity were delivered in February, down 23 percent year to year. Lower vessel supply could put upward pressure on ocean freight rates. Also, the start of Brazilian soybean season may put upward pressure on Panamax rates as demand for Panamax vessels improves for movements from East Coast South America to China and European Union. Surajudeen. Olowolayem@usda.gov

Grain Transportation Indicators

Table 1 **Grain transport cost indicators**¹

| | Truck | Ra | nil | Barge | Ocean | |
|---------------------|-------|------------|---------|-------|-------|---------|
| For the week ending | | Unit train | Shuttle | | Gulf | Pacific |
| 04/15/20 | 168 | n/a | 224 | 171 | 173 | 140 |
| 04/08/20 | 171 | n/a | 222 | 183 | 173 | 140 |

¹ Indicator: Base year 2000 = 100. Weekly updates include truck = diesel (\$/gallon); rail = near-month secondary rail market bid and monthly tariff rate with fuel surcharge (\$/car); barge = Illinois River barge rate (index = percent of tariff rate); ocean = routes to Japan (\$/metric ton); n/a = not available.

Source: USDA, Agricultural Marketing Service.

Table 2

Market Update: U.S. origins to export position price spreads (\$/bushel)

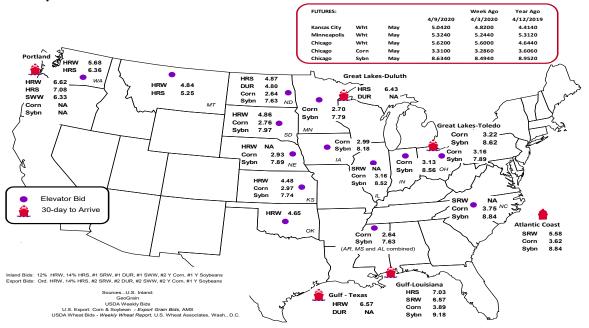
| Commodity | Origin-destination | 4/9/2020 | 4/3/2020 |
|-----------|--------------------|----------|----------|
| Corn | IL-Gulf | -0.73 | -0.72 |
| Corn | NE-Gulf | -0.96 | -0.96 |
| Soybean | IA-Gulf | -1.00 | -1.00 |
| HRW | KS–Gulf | -2.09 | -2.11 |
| HRS | ND-Portland | -2.21 | -2.11 |

Note: nq = no quote; n/a = not available; HRW = hard red winter wheat; HRS = hard red spring wheat.

Source: USDA, Agricultural Marketing Service.

The **grain bid summary** illustrates the market relationships for commodities. Positive and negative adjustments in differential between terminal and futures markets, and the relationship to inland market points, are indicators of changes in fundamental market supply and demand. The map may be used to monitor market and time differentials.

Figure 1 Grain bid summary



Rail Transportation

Table 3

Rail deliveries to port (carloads)¹

| tan denveries to port (carioa | 45) | | | | | | |
|---|-------------|------------|-----------|------------|---------|--------------------|---------------------|
| | Mississippi | | Pacific | Atlantic & | | | Cross-border |
| For the week ending | Gulf | Texas Gulf | Northwest | East Gulf | Total | Week ending | Mexico ³ |
| 4/08/2020 ^p | 735 | 804 | 4,868 | 191 | 6,598 | 4/4/2020 | 3,028 |
| 4/01/2020 ^r | 112 | 658 | 4,428 | 240 | 5,438 | 3/28/2020 | 2,474 |
| 2020 YTD ^r | 5,203 | 9,951 | 64,351 | 3,096 | 82,601 | 2020 YTD | 33,001 |
| 2019 YTD ^r | 11,912 | 16,818 | 84,085 | 5,513 | 118,328 | 2019 YTD | 31,139 |
| 2020 YTD as % of 2019 YTD | 44 | 59 | 77 | 56 | 70 | % change YTD | 106 |
| Last 4 weeks as % of 2019 ² | 23 | 59 | 71 | 72 | 64 | Last 4wks. % 2019 | 125 |
| Last 4 weeks as % of 4-year avg. ² | 52 | 47 | 77 | 55 | 69 | Last 4wks. % 4 yr. | 123 |
| Total 2019 | 40,974 | 51,167 | 251,181 | 16,192 | 359,514 | Total 2019 | 127,622 |
| Total 2018 | 22,118 | 46,532 | 310,449 | 21,432 | 400,531 | Total 2018 | 129,674 |

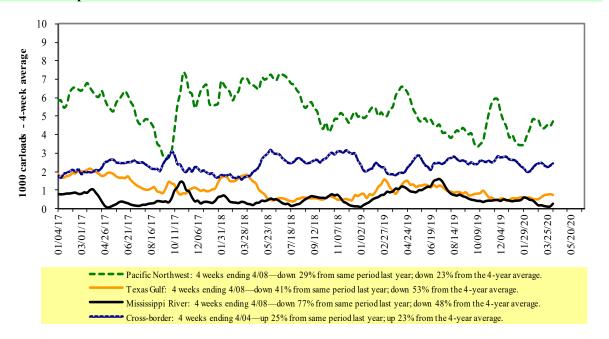
¹Data is incomplete as it is voluntarily provided.

 $YTD = year-to-date; p = preliminary \ data; r = revised \ data; n/a = not \ available; wks. = weeks; avg. = average.$

Source: USDA, Agricultural Marketing Service.

Railroads originate approximately 24 percent of U.S. grain shipments. Trends in these loadings are indicative of market conditions and expectations.

Figure 2 Rail deliveries to port



² Compared with same 4-weeks in 2019 and prior 4-year average.

³ Cross-border weekly data is approximately 15 percent below the Association of American Railroads' reported weekly carloads received by Mexican railroads. to reflect switching between Kansas City Southern de Mexico (KCSM) and Grupo Mexico.

Table 4

Class I rail carrier grain car bulletin (grain carloads originated)

| For the week ending: | Ea | nst | | West | | U.S. total | Cai | nada |
|-----------------------------------|--------|---------|---------|--------|---------|------------|---------|---------|
| 4/4/2020 | CSXT | NS | BNSF | KCS | UP | U.S. total | CN | CP |
| This week | 1,828 | 2,756 | 10,409 | 958 | 4,904 | 20,855 | 5,485 | 4,854 |
| This week last year | 2,421 | 2,767 | 10,252 | 1,253 | 5,109 | 21,802 | 5,703 | 5,589 |
| 2020 YTD | 24,161 | 32,307 | 146,736 | 15,204 | 63,433 | 281,841 | 49,861 | 53,572 |
| 2019 YTD | 28,214 | 37,486 | 147,601 | 16,081 | 69,918 | 299,300 | 57,407 | 57,395 |
| 2020 YTD as % of 2019 YTD | 86 | 86 | 99 | 95 | 91 | 94 | 87 | 93 |
| Last 4 weeks as % of 2019* | 77 | 89 | 106 | 86 | 102 | 99 | 94 | 92 |
| Last 4 weeks as % of 3-yr. avg.** | 86 | 93 | 93 | 108 | 87 | 91 | 103 | 95 |
| Total 2019 | 91,611 | 137,166 | 568,369 | 58,527 | 260,269 | 1,115,942 | 212,536 | 235,892 |

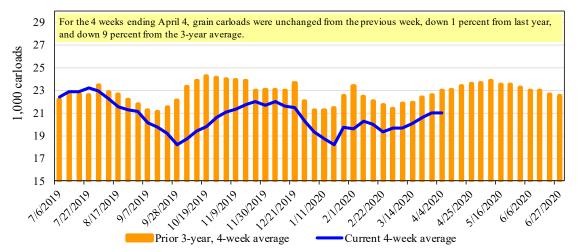
^{*}The past 4 weeks of this year as a percent of the same 4 weeks last year.

Note: NS = Norfolk Southern; KCS = Kansas City Southern; UP = Union Pacific; CN = Canadian National; CP = Canadian Pacific.

Source: Association of American Railroads.

Figure 3

Total weekly U.S. Class I railroad grain carloads



Source: Association of American Railroads.

Table 5
Railcar auction offerings¹ (\$/car)²

| Fo | or the week ending: | | | | Deliver | y period | | | |
|-------------------|----------------------|----------|----------|----------|----------------|----------|---------|---------|--------|
| | 4/9/2020 | Apr-20 | Apr-19 | May-20 | May-19 | Jun-20 | Jun-19 | Jul-20 | Jul-19 |
| BNSF ³ | COT grain units | 0 | n/a | no bids | n/a | no bids | n/a | no bids | n/a |
| | COT grain single-car | 0 | n/a | 0 | n/a | 0 | n/a | 0 | n/a |
| UP ⁴ | GCAS/Region 1 | no offer | no offer | no offer | no offer | no offer | no bids | n/a | n/a |
| | GCAS/Region 2 | no bid | no offer | no bid | no offer | no bid | 179 | n/a | n/a |

¹Auction offerings are for single-car and unit train shipments only.

Region 2 includes: CO, IA, KS, MN, NE, WY, and Kansas City and St. Joseph, MO.

^{**}The past 4 weeks as a percent of the same period from the prior 3-year average. YTD = year-to-date; avg. = average; yr. = year.

²Average premium/discount to tariff, last auction. n/a = not available.

³BNSF - COT = BNSF Railway Certificate of Transportation; north grain and south grain bids were combined effective the week ending 6/24/06.

⁴UP - GCAS = Union Pacific Railroad Grain Car Allocation System.

Region 1 includes: AR, IL, LA, MO, NM, OK, TX, WI, and Duluth, MN.

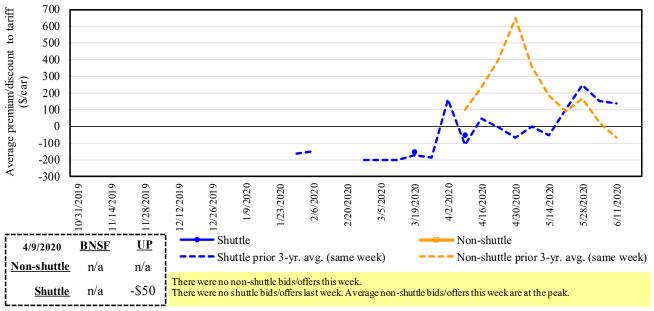
The **secondary rail market** information reflects trade values for service that was originally purchased from the railroad carrier as some form of guaranteed freight. The **auction and secondary rail** values are indicators of rail service quality and demand/ supply.

Figure 4 Bids/offers for railcars to be delivered in April 2020, secondary market 700 Average premium/discount to tariff 600 500 400 300 200 100 0 -100 -200 -300 10/24/2019 11/21/2019 2/19/2019 8/29/2019 9/12/2019 9/26/2019 0/10/2019 11/7/2019 1/2/2020 12/5/2019 4/9/2020 1/16/2020 1/30/2020 2/13/2020 2/27/2020 3/12/2020 3/26/2020 Shuttle Non-shuttle <u>UP</u> **BNSF** 4/9/2020 Shuttle prior 3-yr. avg. (same week) ---- Non-shuttle prior 3-yr. avg. (same week) Non-shuttle n/a n/a There were no non-shuttle bids/offers this week. \$50 -\$50 **Shuttle** Average shuttle bids/offers rose \$44 this week and are \$75 below the peak.

Note: Non-shuttle bids include unit-train and single-car bids. n/a = not available; avg. = average; yr. = year; BNSF = BNSF Railway; UP = Union Pacific Railroad. Source: USDA, Agricultural Marketing Service.

Figure 5 Bids/offers for railcars to be delivered in May 2020, secondary market Average premium/discount to tariff (\$/car) 600 400 200 0 -200 -400 -600 0/17/2019 0/31/2019 0/3/2019 11/14/2019 12/12/2019 2/26/2019 1/9/2020 /23/2020 2/6/2020 3/5/2020 3/19/2020 4/2/2020 4/16/2020 5/14/2020 2/20/2020 4/30/2020 Non-shuttle 4/9/2020 BNSF <u>UP</u> Non-shuttle prior 3-yr. avg. (same week) Shuttle prior 3-yr. avg. (same week) Non-shuttle n/a n/a There were no non-shuttle bids/offers this week. \$50 -\$50 **Shuttle** Average shuttle bids/offers rose \$94 this week and are at the peak. $Note: Non-shuttle\ bids\ include\ unit-train\ and\ single-car\ bids.\ n/a=not\ available;\ avg.=average;\ yr.=year;\ BNSF=BNSF\ Railway;\ UP=Union\ Pacific\ Railroad.$

Figure 6
Bids/offers for railcars to be delivered in June 2020, secondary market



Note: Non-shuttle bids include unit-train and single-car bids. n/a = not available; avg. = average; yr. = year; BNSF = BNSF Railway; UP = Union Pacific Railroad. Source: USDA, Agricultural Marketing Service.

Table 6

Weekly secondary railcar market (\$/car)¹

| | For the week ending: | | | Del | livery period | | |
|----------|----------------------------|--------|--------|--------|---------------|--------|--------|
| | 4/9/2020 | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 |
| | BNSF-GF | n/a | n/a | n/a | n/a | n/a | n/a |
| le | Change from last week | n/a | n/a | n/a | n/a | n/a | n/a |
| -shuttle | Change from same week 2019 | n/a | n/a | n/a | n/a | n/a | n/a |
| Non-s | UP-Pool | n/a | n/a | n/a | n/a | n/a | n/a |
| _ | Change from last week | n/a | n/a | n/a | n/a | n/a | n/a |
| | Change from same week 2019 | n/a | n/a | n/a | n/a | n/a | n/a |
| | BNSF-GF | (50) | (50) | n/a | n/a | n/a | n/a |
| | Change from last week | (25) | 38 | n/a | n/a | n/a | n/a |
| Shuttle | Change from same week 2019 | (333) | (75) | n/a | n/a | n/a | n/a |
| Shu | UP-Pool | 50 | 50 | (50) | (200) | n/a | n/a |
| | Change from last week | 113 | 150 | n/a | n/a | n/a | n/a |
| | Change from same week 2019 | (150) | 17 | n/a | n/a | n/a | n/a |

¹Average premium/discount to tariff, \$/car-last week.

 $Note: Bids\ listed\ are\ market\ indicators\ only\ and\ are\ not\ guaranteed\ prices.\ n/a=not\ available; GF=guaranteed\ freight; Pool=guaranteed\ pool; and are not\ guaranteed\ prices.\ n/a=not\ available; GF=guaranteed\ freight; Pool=guaranteed\ pool; and are not\ guaranteed\ prices.\ n/a=not\ available; GF=guaranteed\ freight; Pool=guaranteed\ pool; and are not\ guaranteed\ prices.\ n/a=not\ available; GF=guaranteed\ freight; Pool=guaranteed\ pool; and are not\ guaranteed\ prices.\ n/a=not\ available; GF=guaranteed\ prices.$

 $BNSF = BNSF \; Railway ; UP = Union \; Pacific \; Railroad.$

Data from James B. Joiner Co., Tradewest Brokerage Co.

The **tariff rail rate** is the base price of freight rail service. Together with **fuel surcharges** and any **auction and secondary rail** values, the tariff rail rate constitutes the full cost of shipping by rail. Typically, auction and secondary rail values are a small fraction of the full cost of shipping by rail relative to the tariff rate. However, during times of high rail demand or short supply, high auction and secondary rail values can exceed the cost of the tariff rate plus fuel surcharge.

Table 7

Tariff rail rates for unit and shuttle train shipments¹

| | | | | Fuel | | | Percent |
|---------------|----------------------------|---------------------------------|----------|------------|-------------------|---------------------|------------------|
| | 0-1-13 | D | Tariff | surcharge_ | Tariff plus surch | bushel ² | change |
| April 2020 | Origin region ³ | Destination region ³ | rate/car | per car | metric ton | busnei | Y/Y ⁴ |
| Unit train | Wishias WC | St. Lawin MO | ¢2.002 | 000 | 640.41 | ¢1 10 | 0 |
| Wheat | Wichita, KS | St. Louis, MO | \$3,983 | \$86 | \$40.41 | \$1.10 | 0 |
| | Grand Forks, ND | Duluth-Superior, MN | \$4,333 | \$0 | \$43.03 | \$1.17 | 2 |
| | Wichita, KS | Los Angeles, CA | \$7,240 | \$0 | \$71.90 | \$1.96 | 1 |
| | Wichita, KS | New Orleans, LA | \$4,525 | \$151 | \$46.44 | \$1.26 | -1 |
| | Sioux Falls, SD | Galveston-Houston, TX | \$6,976 | \$0 | \$69.28 | \$1.89 | 1 |
| | Colby, KS | Galveston-Houston, TX | \$4,801 | \$166 | \$49.32 | \$1.34 | 0 |
| | Amarillo, TX | Los Angeles, CA | \$5,121 | \$231 | \$53.14 | \$1.45 | 0 |
| Corn | Champaign-Urbana, IL | New Orleans, LA | \$3,900 | \$171 | \$40.43 | \$1.03 | -3 |
| | Toledo, OH | Raleigh, NC | \$6,816 | \$0 | \$67.69 | \$1.72 | 4 |
| | Des Moines, IA | Davenport, IA | \$2,415 | \$36 | \$24.34 | \$0.62 | 7 |
| | Indianapolis, IN | Atlanta, GA | \$5,818 | \$0 | \$57.78 | \$1.47 | 3 |
| | Indianapolis, IN | Knoxville, TN | \$4,874 | \$0 | \$48.40 | \$1.23 | 4 |
| | Des Moines, IA | Little Rock, AR | \$3,800 | \$106 | \$38.79 | \$0.99 | -2 |
| | Des Moines, IA | Los Angeles, CA | \$5,680 | \$310 | \$59.48 | \$1.51 | -1 |
| Soybeans | Minneapolis, MN | New Orleans, LA | \$3,631 | \$156 | \$37.61 | \$1.02 | -12 |
| | Toledo, OH | Huntsville, AL | \$5,630 | \$0 | \$55.91 | \$1.52 | 3 |
| | Indianapolis, IN | Raleigh, NC | \$6,932 | \$0 | \$68.84 | \$1.87 | 3 |
| | Indianapolis, IN | Huntsville, AL | \$5,107 | \$0 | \$50.71 | \$1.38 | 3 |
| | Champaign-Urbana, IL | New Orleans, LA | \$4,645 | \$171 | \$47.83 | \$1.30 | -2 |
| Shuttle train | | | | | | | |
| Wheat | Great Falls, MT | Portland, OR | \$4,143 | \$0 | \$41.14 | \$1.12 | 2 |
| | Wichita, KS | Galveston-Houston, TX | \$4,361 | \$0 | \$43.31 | \$1.18 | 2 |
| | Chicago, IL | Albany, NY | \$7,074 | \$0 | \$70.25 | \$1.91 | 20 |
| | Grand Forks, ND | Portland, OR | \$5,801 | \$0 | \$57.61 | \$1.57 | 1 |
| | Grand Forks, ND | Galveston-Houston, TX | \$6,121 | \$0 | \$60.78 | \$1.65 | 1 |
| | Colby, KS | Portland, OR | \$6,012 | \$272 | \$62.40 | \$1.70 | 1 |
| Corn | Minneapolis, MN | Portland, OR | \$5,180 | \$0 | \$51.44 | \$1.31 | 0 |
| | Sioux Falls, SD | Tacoma, WA | \$5,140 | \$0 | \$51.04 | \$1.30 | 0 |
| | Champaign-Urbana, IL | New Orleans, LA | \$3,820 | \$171 | \$39.63 | \$1.01 | 0 |
| | Lincoln, NE | Galveston-Houston, TX | \$3,880 | \$0 | \$38.53 | \$0.98 | 0 |
| | Des Moines, IA | Amarillo, TX | \$4,220 | \$134 | \$43.24 | \$1.10 | 4 |
| | Minneapolis, MN | Tacoma, WA | \$5,180 | \$0 | \$51.44 | \$1.31 | 0 |
| | Council Bluffs, IA | Stockton, CA | \$5,000 | \$0 | \$49.65 | \$1.26 | 0 |
| Soybeans | Sioux Falls, SD | Tacoma, WA | \$5,850 | \$0 | \$58.09 | \$1.58 | 2 |
| | Minneapolis, MN | Portland, OR | \$5,900 | \$0 | \$58.59 | \$1.59 | 2 |
| | Fargo, ND | Tacoma, WA | \$5,750 | \$0 | \$57.10 | \$1.55 | 2 |
| | Council Bluffs, IA | New Orleans, LA | \$4,875 | \$197 | \$50.37 | \$1.37 | 2 |
| | Toledo, OH | Huntsville, AL | \$4,805 | \$0 | \$47.72 | \$1.30 | 4 |
| | Grand Island, NE | Portland, OR | \$5,260 | \$278 | \$55.00 | \$1.50 | -8 |

¹A unit train refers to shipments of at least 25 cars. Shuttle train rates are generally available for qualified shipments of

Source: BNSF Railway, Canadian National Railway, CSX Transportation, and Union Pacific Railroad.

⁷⁵⁻¹²⁰ cars that meet railroad efficiency requirements.

²Approximate load per car = 111 short tons (100.7 metric tons): com 56 pounds per bushel (lbs/bu), wheat and soybeans 60 lbs/bu.

³Regional economic areas are defined by the Bureau of Economic Analysis (BEA).

⁴Percentage change year over year (Y/Y) calculated using tariff rate plus fuel surcharge.

Table 8

Tariff rail rates for U.S. bulk grain shipments to Mexico

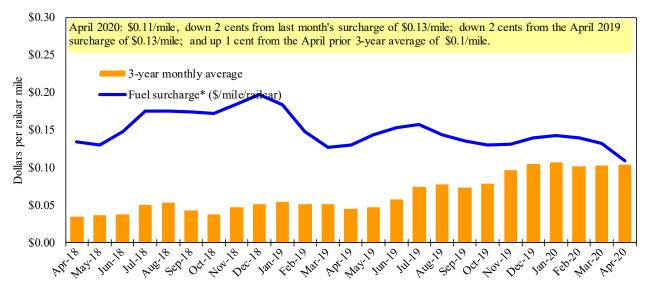
| Date | : April 2020 |) | | Fuel | Tari | ff rate plus | Percent |
|-----------|--------------|----------------------|----------------------|----------------------|-------------------------|-----------------------|---------------------|
| | Origin | | Tariff rate | surcharge | fuel surc | harge per: | change ⁴ |
| Commodity | state | Destination region | per car ¹ | per car ² | metric ton ³ | bus he l ³ | Y/Y |
| Wheat | MT | Chihuahua, CI | \$7,509 | \$0 | \$76.72 | \$2.09 | 3 |
| | OK | Cuautitlan, EM | \$6,775 | \$118 | \$70.44 | \$1.92 | 0 |
| | KS | Guadalajara, JA | \$7,534 | \$502 | \$82.10 | \$2.23 | 3 |
| | TX | Salinas Victoria, NL | \$4,329 | \$72 | \$44.96 | \$1.22 | 0 |
| Corn | IA | Guadalajara, JA | \$8,902 | \$433 | \$95.39 | \$2.42 | 5 |
| | SD | Celaya, GJ | \$8,140 | \$0 | \$83.17 | \$2.11 | 3 |
| | NE | Queretaro, QA | \$8,278 | \$244 | \$87.08 | \$2.21 | 1 |
| | SD | Salinas Victoria, NL | \$6,905 | \$0 | \$70.55 | \$1.79 | 0 |
| | MO | Tlalnepantla, EM | \$7,643 | \$238 | \$80.53 | \$2.04 | 1 |
| | SD | Torreon, CU | \$7,690 | \$0 | \$78.57 | \$1.99 | 3 |
| Soybeans | MO | Bojay (Tula), HG | \$8,547 | \$405 | \$91.46 | \$2.49 | 4 |
| | NE | Guadalajara, JA | \$9,172 | \$424 | \$98.04 | \$2.67 | 4 |
| | IA | El Castillo, JA | \$9,490 | \$0 | \$96.97 | \$2.64 | 4 |
| | KS | Torreon, CU | \$7,964 | \$295 | \$84.38 | \$2.29 | 4 |
| Sorghum | NE | Celaya, GJ | \$7,772 | \$385 | \$83.34 | \$2.12 | 4 |
| | KS | Queretaro, QA | \$8,108 | \$148 | \$84.35 | \$2.14 | 1 |
| | NE | Salinas Victoria, NL | \$6,713 | \$119 | \$69.80 | \$1.77 | 1 |
| | NE | Torreon, CU | \$7,092 | \$272 | \$75.24 | \$1.91 | 2 |

¹Rates are based upon published tariff rates for high-capacity shuttle trains. Shuttle trains are available for qualified

Sources: BNSF Railway, Union Pacific Railroad, Kansas City Southern.

Figure 7

Railroad fuel surcharges, North American weighted average¹



 $^{^{\}rm 1}$ Weighted by each Class I railroad's proportion of grain traffic for the prior year.

Sources: BNSF Railway, Canadian National Railway, CSX Transportation, Canadian Pacific Railway, Union Pacific Railroad, Kansas City Southern Railway, Norfolk Southern Corporation.

shipments of 75-110 cars that meet railroad efficiency requirements.

²Fuel surcharge adjusted to reflect the change in Ferrocarril Mexicano, S.A. de C.V railroad fuel surcharge policy as of 10/01/2009.

³Approximate load per car = 97.87 metric tons: Corn & Sorghum 56 lbs/bu, Wheat & Soybeans 60 lbs/bu.

⁴Percentage change calculated using tariff rate plus fuel surchage; Y/Y = year over year.

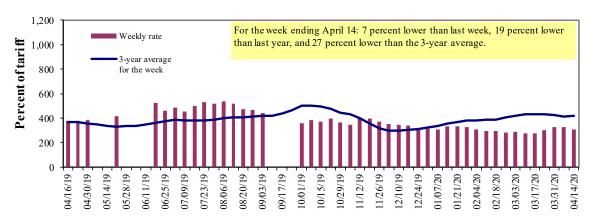
^{*} Beginning January 2009, the Canadian Pacific fuel surcharge is computed by a monthly average of the bi-weekly fuel surcharge.

^{**}CSX strike price changed from \$2.00/gal. to \$3.75/gal. starting January 1, 2015.

Barge Transportation

Figure 8

Illinois River barge freight rate^{1,2}



¹Rate = percent of 1976 tariff benchmark index (1976 = 100 percent); ²4-week moving average of the 3-year average. Source: USDA, A gricultural Marketing Service.

Table 9

Weekly barge freight rates: Southbound only

| | burge freight i | | | | | | | |
|-------------------|------------------------------------|----------------|----------------|----------------------------|--------------|---------------|---------------|--------------|
| | | Twin Cities | Mid- | Lower Illinois River | St. Louis | Cincinnati | Lower Ohio | Cairo- |
| | | Cities | Mississippi | Kiver | St. Louis | Cincinnati | Omo | Memphis |
| Rate ¹ | 4/14/2020 | 393 | 324 | 308 | 203 | 210 | 210 | 193 |
| | 4/7/2020 | 383 | 343 | 330 | 215 | 223 | 223 | 204 |
| \$/ton | 4/14/2020 4/7/2020 | 24.33 23.71 | 17.24 18.25 | 14.29 15.31 | 8.10 8.58 | 9.85 10.46 | 8.48 9.01 | 6.06 6.41 |
| Curren | t week % change | e from the s | same week: | | | | | |
| O | Last year 3-year avg. ² | - -16 | -22 | -19 -27 | -28 -39 | -34 -44 | -34 -45 | -30 -38 |
| Rate ¹ | May | 378 | 323 | 208 | 205 | 208 | 208 | 193 |
| | July | 378 | 323 | - | 208 | 210 | 210 | 193 |

¹Rate = percent of 1976 tariff benchmark index (1976 = 100 percent); ²4-week moving average; ton = 2,000 pounds; "-" not available due to closure. Source: USDA, Agricultural Marketing Service.

Figure 9 Benchmark tariff rates

Calculating barge rate per ton:

(Rate * 1976 tariff benchmark rate per ton)/100

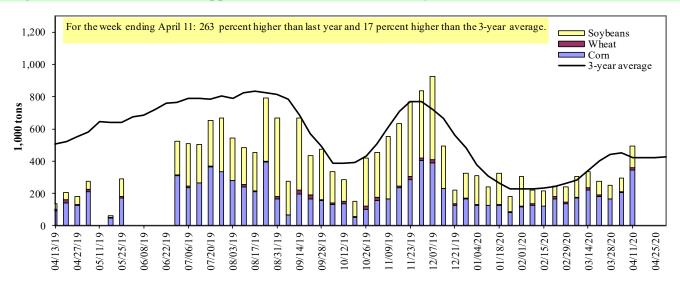
Select applicable index from market quotes are included in tables on this page. The 1976 benchmark rates per ton are provided in map.





Figure 10

Barge movements on the Mississippi River¹ (Locks 27 - Granite City, IL)



¹ The 3-year average is a 4-week moving average.

Source: U.S. Army Corps of Engineers.

Table 10 **Barge grain movements (1.000 tons)**

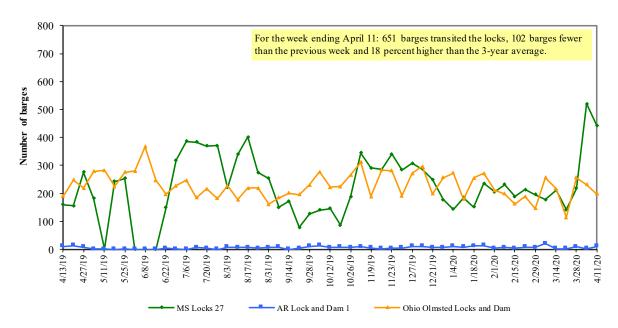
| For the week ending 04/11/2020 | Corn | Wheat | Soybeans | Other | Total |
|--|--------|-------|----------|-------|--------|
| Mississippi River | | | | | |
| Rock Island, IL (L15) | 20 | 0 | 8 | 0 | 28 |
| Winfield, MO (L25) | 80 | 0 | 55 | 0 | 135 |
| Alton, IL (L26) | 340 | 13 | 132 | 0 | 485 |
| Granite City, IL (L27) | 346 | 13 | 134 | 0 | 493 |
| Illinois River (La Grange) | 157 | 9 | 50 | 0 | 217 |
| Ohio River (Olmsted) | 82 | 0 | 37 | 0 | 119 |
| Arkansas River (L1) | 0 | 33 | 17 | 0 | 50 |
| Weekly total - 2020 | 428 | 46 | 188 | 0 | 661 |
| Weekly total - 2019 | 248 | 51 | 128 | 2 | 429 |
| 2020 YTD ¹ | 4,005 | 468 | 3,098 | 13 | 7,583 |
| 2019 YTD ¹ | 3,454 | 690 | 2,883 | 42 | 7,068 |
| 2020 as % of 2019 YTD | 116 | 68 | 107 | 32 | 107 |
| Last 4 weeks as % of 2019 ² | 101 | 50 | 81 | 13 | 89 |
| Total 2019 | 12,780 | 1,631 | 14,683 | 154 | 29,247 |

¹ Weekly total, YTD (year-to-date), and calendar year total include MS/27, OH/Olmsted, and AR/1; Other refers to oats, barley, sorghum, and rye. L (as in "L15") refers to a lock or lock and dam facility. Olmsted = Olmsted Locks and Dam. La Grange = La Grange Lock and Dam.

Note: Total may not add exactly because of rounding. Starting from 11/24/2018, weekly movement through Ohio 52 is replaced by Olmsted. Source: U.S. Army Corps of Engineers.

² As a percent of same period in 2019.

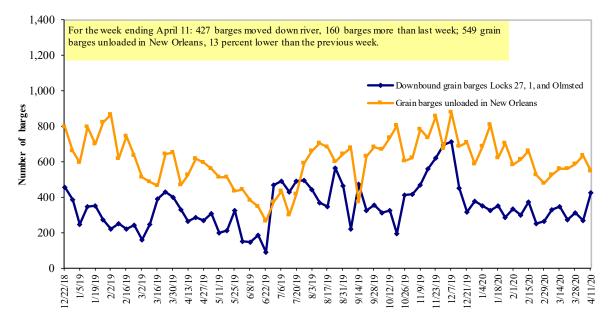
Figure 11
Upbound empty barges transiting Mississippi River Locks 27, Arkansas River Lock and Dam 1, and Ohio River Olmsted Locks and Dam



Source: U.S. Army Corps of Engineers.

Figure 12

Grain barges for export in New Orleans region



Note: Olmsted = Olmsted Locks and Dam.

Source: U.S. Army Corps of Engineers and USDA, Agricultural Marketing Service.

Truck Transportation

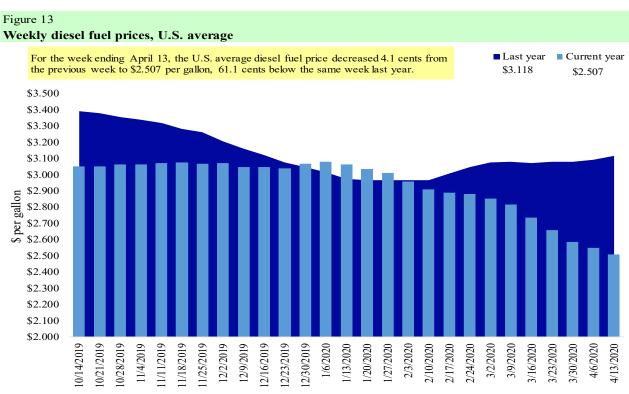
The **weekly diesel price** provides a proxy for trends in U.S. truck rates as diesel fuel is a significant expense for truck grain movements.

Table 11 Retail on-highway diesel prices, week ending 4/13/2020 (U.S. \$/gallon)

| | | | Change | e from |
|--------|----------------------------|-------|----------|----------|
| Region | Location | Price | Week ago | Year ago |
| I | East Coast | 2.599 | -0.035 | -0.554 |
| | New England | 2.715 | -0.030 | -0.490 |
| | Central Atlantic | 2.782 | -0.045 | -0.560 |
| | Lower Atlantic | 2.450 | -0.030 | -0.565 |
| II | Midwest | 2.353 | -0.041 | -0.657 |
| III | Gulf Coast | 2.289 | -0.036 | -0.610 |
| IV | Rocky Mountain | 2.497 | -0.044 | -0.585 |
| V | West Coast | 3.028 | -0.062 | -0.623 |
| | West Coast less California | 2.695 | -0.059 | -0.557 |
| | California | 3.302 | -0.066 | -0.665 |
| Total | United States | 2.507 | -0.041 | -0.611 |

¹Diesel fuel prices include all taxes. Prices represent an average of all types of diesel fuel.

Source: U.S. Department of Energy, Energy Information Administration.



Source: U.S. Department of Energy, Energy Information Administration, Retail On-Highway Diesel Prices

Grain Exports

Table 12 U.S. export balances and cumulative exports (1,000 metric tons)

| cost export variances and camalative exports (1),000 metric tons) | | | | | | | | | |
|---|-------|-------|-------|-------|-----|-----------|------------------|--------|---------|
| Whe at | | | | | | Corn | Soybe ans | Total | |
| For the week ending | HRW | SRW | HRS | SWW | DUR | All wheat | | | |
| Export balances ¹ | | | | | | | | | |
| 4/2/2020 | 1,703 | 288 | 1,567 | 1,112 | 216 | 4,886 | 14,160 | 5,263 | 24,309 |
| This week year ago | 2,433 | 894 | 1,342 | 1,044 | 84 | 5,796 | 12,719 | 13,017 | 31,532 |
| Cumulative exports-marketing year ² | | | | | | | | | |
| 2019/20 YTD | 7,715 | 2,071 | 5,785 | 3,899 | 685 | 20,155 | 19,597 | 32,122 | 71,874 |
| 2018/19 YTD | 6,271 | 2,404 | 5,476 | 4,251 | 399 | 18,801 | 31,024 | 30,830 | 80,655 |
| YTD 2019/20 as % of 2018/19 | 123 | 86 | 106 | 92 | 172 | 107 | 63 | 104 | 89 |
| Last 4 wks. as % of same period 2018/19* | 74 | 33 | 118 | 107 | 247 | 86 | 107 | 37 | 74 |
| Total 2018/19 | 8,591 | 3,204 | 6,776 | 5,164 | 479 | 24,214 | 48,924 | 46,189 | 119,327 |
| Total 2017/18 | 9,150 | 2,343 | 5,689 | 4,854 | 384 | 22,419 | 57,209 | 56,214 | 135,842 |

¹ Current unshipped (outstanding) export sales to date.

Note: marketing year: wheat = 6/01-5/31, corn and soybeans = 9/01-8/31. YTD = year-to-date; wks. = weeks; HRW= hard red winter; SRW = soft red winter;

HRS= hard red spring; SWW= soft white wheat; DUR= durum.

Source: USDA, Foreign Agricultural Service.

Table 13 **Top 5 importers**¹ **of U.S. corn**

| For the week ending 4/02/2020 | Total com | mitments ² | % change | Exports ³ |
|-------------------------------------|------------|-----------------------|--------------|----------------------|
| | 2019/20 | 2018/19 | current MY | 3-yr. avg. |
| | current MY | last MY* | from last MY | 2016-18 |
| | | - 1,000 mt - | | |
| Mexico | 11,830 | 13,954 | (15) | 14,659 |
| Japan | 7,552 | 9,355 | (19) | 11,955 |
| Korea | 1,741 | 3,548 | (51) | 4,977 |
| Colombia | 3,103 | 3,636 | (15) | 4,692 |
| Peru | 36 | 1,965 | (98) | 2,808 |
| Top 5 importers | 24,261 | 32,458 | (25) | 39,091 |
| Total U.S. corn export sales | 33,756 | 43,743 | (23) | 54,024 |
| % of projected exports | 77% | 83% | | |
| Change from prior week ² | 1,849 | 548 | | |
| Top 5 importers' share of U.S. corn | | | | |
| export sales | 72% | 74% | | 72% |
| USDA forecast April 2020 | 43,893 | 52,545 | (16) | |
| Corn use for ethanol USDA | | | | |
| forecast, April 2020 | 128,270 | 136,601 | (6) | |

¹Based on USDA, Foreign Agricultural Service (FAS) marketing year ranking reports for 2018/19; marketing year (MY) = Sep 1 - Aug 31.

Note: A red number in parentheses indicates a negative number; mt = metric ton.

Source: USDA, Foreign Agricultural Service.

² Shipped export sales to date; new marketing year now in effect for wheat, corn, and soybeans.

²Cumulative exports (shipped) + outstanding sales (unshipped), FAS weekly export sales report, or export sales query. Total commitments change (net sales) from prior week could include revisions from previous week's outstanding sales or accumulated sales.

³FAS marketing year ranking reports (carry over plus accumulated export); yr. = year; avg. = average.

Table 14

Top 5 importers¹ of U.S. soybeans

| For the week ending 4/2/2020 | Total com | mitments ² | % change | Exports ³ |
|-------------------------------------|------------|-----------------------|--------------|----------------------|
| | 2019/20 | 2018/19 | current MY | 3-yr. avg. |
| | current MY | last MY* | from last MY | 2016-18 |
| | - 1,0 | 00 mt - | | - 1,000 mt - |
| China | 12,617 | 12,921 | (2) | 25,733 |
| Mexico | 4,073 | 4,652 | (12) | 4,271 |
| Indonesia | 1,543 | 1,767 | (13) | 2,386 |
| Japan | 2,064 | 2,044 | 1 | 2,243 |
| Egypt | 2,333 | 2,302 | 1 | 1,983 |
| Top 5 importers | 22,631 | 23,686 | (4) | 36,616 |
| Total U.S. soybean export sales | 37,385 | 43,847 | (15) | 53,746 |
| % of projected exports | 77% | 92% | | |
| change from prior week ² | 523 | 270 | | |
| Top 5 importers' share of U.S. | | | | |
| soybean export sales | 61% | 54% | | 68% |
| USDA forecast, April 2020 | 48,365 | 47,629 | 102 | |

¹Based on USDA, Foreign Agricultural Service (FAS) marketing year ranking reports for 2018/19; marketing year (MY) = Sep 1 - Aug 31.

Note: A red number in parentheses indicates a negative number; mt = metric ton.

Source: USDA, Foreign Agricultural Service.

Table 15

Top 10 importers¹ of all U.S. wheat

| For the week ending 4/2/2020 | Total comr | nitments ² | % change | Exports ³ 3-yr. avg. 2016-18 | |
|-------------------------------------|------------|-----------------------|--------------|---|--|
| | 2019/20 | 2018/19 | current MY | | |
| | current MY | last MY* | from last MY | | |
| | - 1,000 | mt - | | - 1,000 mt - | |
| Philippines | 3,210 | 3,041 | 6 | 3,047 | |
| Mexico | 3,628 | 3,063 | 18 | 3,034 | |
| Japan | 2,680 | 2,707 | (1) | 2,695 | |
| Nigeria | 1,538 | 1,432 | 7 | 1,564 | |
| Indonesia | 997 | 1,314 | (24) | 1,381 | |
| Korea | 1,570 | 1,547 | 1 | 1,355 | |
| Taiwan | 1,288 | 1,103 | 17 | 1,164 | |
| Egypt | 101 | 812 | (88) | 821 | |
| Thailand | 854 | 744 | 15 | 747 | |
| Iraq | 262 | 616 | (57) | 574 | |
| Top 10 importers | 16,128 | 16,379 | (2) | 16,382 | |
| Total U.S. wheat export sales | 25,042 | 24,597 | 2 | 24,388 | |
| % of projected exports | 93% | 96% | | | |
| change from prior week ² | 259 | 273 | | | |
| Top 10 importers' share of U.S. | _ | _ | | | |
| wheat export sales | 64% | 67% | | 67% | |
| USDA forecast, April 2020 | 26,839 | 25,504 | 5 | | |

¹ Based on USDA, Foreign Agricultural Service(FAS) marketing year ranking reports for 2018/19; Marketing year (MY) = Jun 1 - May 31.

Note: A red number in parentheses indicates a negative number.

 $Source: USDA, For eign\ Agricultural\ Service.$

²Cumulative exports (shipped) + outstanding sales (unshipped), FAS weekly export sales report, or export sales query. The total commitments change (net sales) from prior week could include revisions from previous week's outstanding sales and/or accumulated sales.

³FAS marketing year ranking reports (carry over plus accumulated export); yr. = year; avg. = average.

² Cumulative exports (shipped) + outstanding sales (unshipped), FAS weekly export sales report, or export sales query. The total commitments change (net sales) from prior week could include revisions from the previous week's outstanding and/or accumulated sales.

³ FAS marketing year final reports (carry over plus accumulated export); yr. = year; avg. = average.

Table 16
Grain inspections for export by U.S. port region (1,000 metric tons)

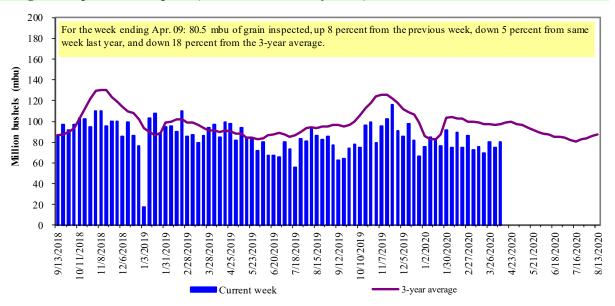
| | For the week ending | ek ending Previous Current week 2020 YI | 2020 YTD as | Last 4-we | | | | | |
|-----------------------|---------------------|---|------------------|-----------|-----------|---------------|-----------|------------------|-------------|
| Port regions | 04/09/20 | week* | as % of previous | 2020 YTD* | 2019 YTD* | % of 2019 YTD | Last year | Prior 3-yr. avg. | 2019 total* |
| Pacific Northwest | | | | | | | | | |
| Wheat | 501 | 178 | 281 | 4,430 | 3,712 | 119 | 111 | 100 | 13,961 |
| Corn | 237 | 185 | 128 | 1,883 | 3,420 | 55 | 83 | 63 | 7,047 |
| Soybeans | 68 | 4 | n/a | 2,206 | 3,948 | 56 | 20 | 31 | 11,969 |
| Total | 806 | 367 | 219 | 8,519 | 11,080 | 77 | 70 | 68 | 32,977 |
| Mississippi Gulf | | | | , | , | | | | , |
| Wheat | 63 | 19 | 333 | 1,033 | 1,427 | 72 | 56 | 53 | 4,448 |
| Corn | 567 | 855 | 66 | 7,850 | 7,795 | 101 | 103 | 86 | 20,763 |
| Soybeans | 264 | 194 | 136 | 7,538 | 7,905 | 95 | 85 | 81 | 31,398 |
| Total | 894 | 1,068 | 84 | 16,420 | 17,127 | 96 | 93 | 82 | 56,609 |
| Texas Gulf | | , | | , | , | | | | , |
| Wheat | 35 | 113 | 31 | 1,066 | 1,740 | 61 | 50 | 53 | 6,009 |
| Corn | 0 | 30 | 0 | 168 | 177 | 95 | 63 | 57 | 640 |
| Soybeans | 0 | 0 | n/a | 7 | 0 | n/a | n/a | n/a | 2 |
| Total | 35 | 143 | 24 | 1,240 | 1,917 | 65 | 52 | 53 | 6,650 |
| Interior | | | | | | | | | |
| Wheat | 43 | 57 | 74 | 698 | 442 | 158 | 208 | 201 | 1,987 |
| Corn | 207 | 187 | 111 | 2,204 | 1,966 | 112 | 118 | 105 | 7,857 |
| Soybeans | 117 | 108 | 109 | 2,068 | 1,858 | 111 | 82 | 93 | 7,043 |
| Total | 368 | 352 | 104 | 4,969 | 4,265 | 116 | 111 | 110 | 16,887 |
| Great Lakes | | | | | | | | | |
| Wheat | 0 | 0 | n/a | 1 | 42 | 2 | 0 | 0 | 1,339 |
| Corn | 0 | 0 | n/a | 0 | 0 | n/a | n/a | n/a | 11 |
| Soybeans | 0 | 0 | n/a | 0 | 43 | 0 | 0 | 0 | 493 |
| Total | 0 | 0 | n/a | 1 | 85 | 1 | 0 | 0 | 1,844 |
| Atlantic | | | | | | | | | |
| Wheat | 0 | 1 | n/a | 1 | 32 | 2 | 2 | 3 | 37 |
| Corn | 0 | 0 | n/a | 0 | 42 | 0 | 0 | 0 | 99 |
| Soybeans | 15 | 10 | 149 | 311 | 425 | 73 | 54 | 37 | 1,353 |
| Total | 15 | 11 | 141 | 311 | 500 | 62 | 39 | 31 | 1,489 |
| U.S. total from ports | * | | | | | | | | |
| Wheat | 641 | 369 | 174 | 7,228 | 7,395 | 98 | 88 | 84 | 27,781 |
| Corn | 1,012 | 1,257 | 81 | 12,104 | 13,401 | 90 | 98 | 81 | 36,417 |
| Soybeans | 465 | 316 | 147 | 12,128 | 14,178 | 86 | 59 | 67 | 52,258 |
| Total | 2,117 | 1,942 | 109 | 31,460 | 34,974 | 90 | 84 | 78 | 116,457 |

^{*}Data includes revisions from prior weeks; some regional totals may not add exactly due to rounding.

Source: USDA, Federal Grain Inspection Service; YTD= year-to-date; n/a = not applicable or no change.

The United States exports approximately one-quarter of the grain it produces. On average, this includes nearly 45 percent of U.S.-grown wheat, 50 percent of U.S.-grown soybeans, and 20 percent of the U.S.-grown corn. Approximately 55 percent of the U.S. export grain shipments departed through the U.S. Gulf region in 2019.

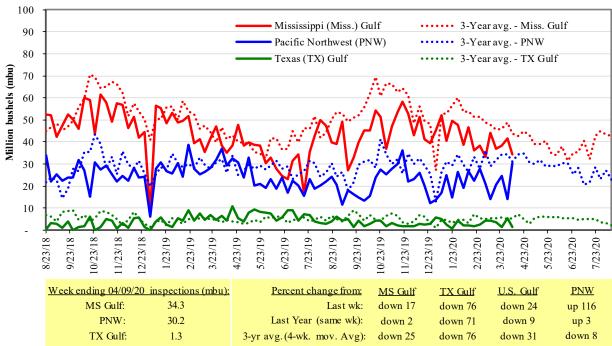
Figure 14
U.S. grain inspected for export (wheat, corn, and soybeans)



Note: 3-year average consists of 4-week running average.

Source: USDA, Federal Grain Inspection Service.

Figure 15
U.S. Grain inspections: U.S. Gulf and PNW¹ (wheat, corn, and soybeans)



Source: USDA, Federal Grain Inspection Service.

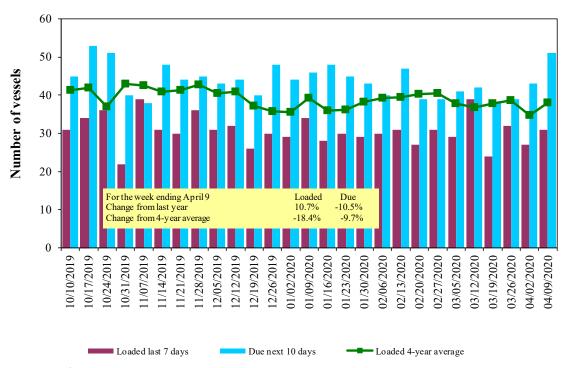
Ocean Transportation

Table 17
Weekly port region grain ocean vessel activity (number of vessels)

| V 1 | | | | Pacific |
|--------------|---------|--------|----------|-----------|
| | | Gulf | | Northwest |
| | | Loaded | Due next | |
| Date | In port | 7-days | 10-days | In port |
| 4/9/2020 | 30 | 31 | 51 | 10 |
| 4/2/2020 | 26 | 27 | 43 | 11 |
| 2019 range | (2661) | (1844) | (3369) | (833) |
| 2019 average | 40 | 31 | 49 | 17 |

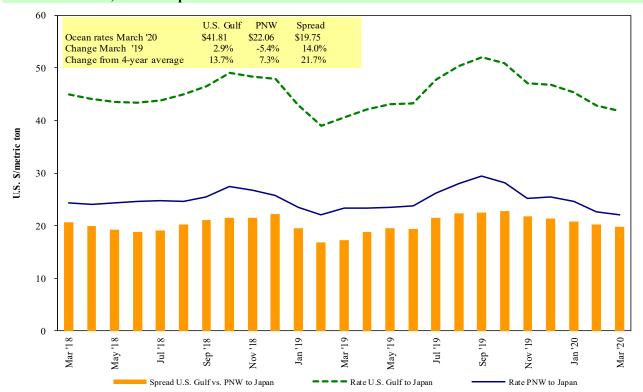
Source: USDA, Agricultural Marketing Service.

Figure 16
U.S. Gulf¹ vessel loading activity



¹U.S. Gulf includes Mississippi, Texas, and East Gulf. Source:USDA, Agricultural Marketing Service.

Figure 17 **Grain vessel rates, U.S. to Japan**



Note: PNW = Pacific Northwest.

Source: O'Neil Commodity Consulting.

Table 18

Ocean freight rates for selected shipments, week ending 04/11/2020

| Export | Import | Grain | Loading | Volume loads | Freight rate |
|-----------|-----------|-------------|---------------|---------------|-------------------|
| region | region | types | date | (metric tons) | (US\$/metric ton) |
| U.S. Gulf | Djibouti | Sorghum | Apr 17/27 | 45,730 | 105.75* |
| U.S. Gulf | China | Heavy grain | Jan 25/30 | 65,000 | 46.50 |
| U.S. Gulf | Rotterdam | Heavy grain | Feb 5/11 | 55,000 | 19.50 |
| PNW | Yemen | Wheat | Mar 26/Apr 6 | 35,000 | 51.84* |
| PNW | Taiwan | Wheat | Apr 27/May 11 | 50,700 | 29.40 |
| PNW | China | Heavy grain | Jan 22/26 | 63,000 | 23.00 |
| Brazil | China | Heavy grain | May 1/31 | 60,000 | 33.25 op 33.00 |
| Brazil | China | Heavy grain | Apr 2/16 | 66,000 | 30.75 |
| Brazil | China | Heavy grain | Mar 1/10 | 65,000 | 32.00 |
| Brazil | China | Heavy grain | Feb 12/21 | 65,000 | 34.50 |
| Brazil | China | Heavy grain | Feb 18/27 | 60,000 | 34.00 |

^{*50} percent of food aid from the United States is required to be shipped on U.S.-flag vessels.

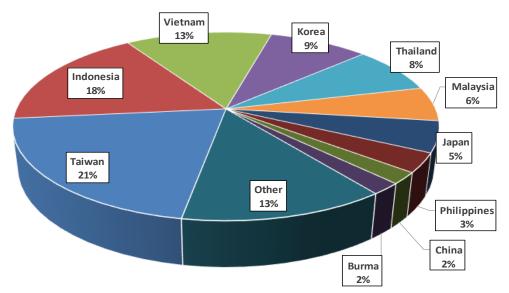
Note: Rates shown are per metric ton (2,204.62 lbs. = 1 metric ton), free on board (F.O.B), except where otherwise indicated; op = option.

Source: Maritime Research, Inc.

In 2018, containers were used to transport 8 percent of total U.S. waterborne grain exports. Approximately 55 percent of U.S. waterborne grain exports in 2018 went to Asia, of which 13 percent were moved in containers. Approximately 94 percent of U.S. waterborne containerized grain exports were destined for Asia.

Figure 18

Top 10 destination markets for U.S. containerized grain exports, 2019



Note: The following Harmonized Tariff Codes are used to calculate containerized grains movements: 1001, 100190, 1002, 1003 100300, 1004, 100400, 1005, 100590, 1007, 100700, 1102, 110100, 230310, 110220, 110290, 1201, 120100, 230210, 230990, 230330, and 120810.

Source: USDA, Agricultural Marketing Service, Transportation Services Division analysis of PIERS data.

Figure 19
Monthly shipments of containerized grain to Asia



Note: The following Harmonized Tariff Codes are used to calculate containerized grains movements: 100190, 100200, 100300, 100400, 100590, 100700, 110100, 110220, 110290, 1201, 120100, 120190, 120810, 230210, 230310, 230330, and 230990.

Source: USDA, Agricultural Marketing Service, Transportation Services Division analysis of PIERS data.

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