



Grain Transportation Report

A weekly publication of the Agricultural Marketing Service www.ams.usda.gov/GTR

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November 7, 2019

WEEKLY HIGHLIGHTS

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The next release is November 14, 2019 **Weekly Grain Inspections Down**

For the week ending October 31, total inspections of grain (corn, wheat, and soybeans) for export from all major U.S. export regions reached 2.14 million metric tons (mmt). Inspections were down 20 percent from the previous week, down 28 percent from last year, and 36 percent below the 3-year average. Total exports of grain for the week were down primarily because of lower exports to Latin America and Europe. From the past week, inspections of wheat and corn fell 47 percent and 30 percent, respectively, and soybean inspections decreased 9 percent. Mississippi Gulf grain inspections decreased 28 percent from the previous week while inspections in the Pacific Northwest (PNW) dropped 8 percent.

Ocean Freight Rates Hit the Lowest Since the Past 12 weeks

Although still higher than the beginning of the year, ocean freight rates for shipping bulk grain hit the lowest level since the past 12 weeks. For the week ending October 31, the rate for shipping a metric ton (mt) of grain from the U.S. Gulf to Japan was \$49.50. This was 5 percent more than the beginning of the year, but 2 percent less than the previous week. The rate from PNW to Japan was \$27 per mt, 8 percent more than the beginning of the year, but 4 percent less than the previous week. The last time ocean freight rates were at this level was during the week ending August 8, 2019. It is uncertain how long the ocean freight rates will remain at this level given the impending International Maritime Organization's regulation on sulfur emission effective January 1, 2020. The regulation could impact the supply of bulk vessels in the near term (see October 31, *Grain Transportation Report*).

Diesel Prices Remain Firm Under Pressure From Market Fundamentals

For the week ending November 4, diesel fuel prices decreased slightly from the previous week, falling 0.2 cents to \$3.062 per gallon. In the previous week (ending October 28), prices had increased 1.4 cents per gallon in response to increasing crude oil prices, which had gained 5 percent from October 21 to 25. Additionally, according to the Department of Energy's Energy Information Administration, the distillate fuel market is confronting both stocks that have fallen each week since early September as well as distillate demand that has steadily increased during the same timeframe. These dynamics put upward pressure on diesel fuel prices.

Snapshots by Sector

Export Sales

For the week ending October 24, **unshipped balances** of wheat, corn, and soybeans totaled 23.3 mmt. This represents a 26-percent decrease in outstanding sales, compared to the same time last year. Net **corn export sales** reached .549 mmt, up 12 percent from the past week. Net **soybean export sales** were .944 mmt, up 99 percent from the previous week. Net weekly **wheat export sales** reached .494 mmt, up 99 percent from the previous week.

Rail

U.S. Class I railroads originated 21,135 **grain carloads** during the week ending October 26. This is a 2-percent increase from the previous week, 9 percent less than last year, and 11 percent lower than the 3-year average.

Average November shuttle **secondary railcar** bids/offers (per car) were \$213 above tariff for the week ending October 31. This is \$259 more than last week and \$413 more than this week last year. There were no non-shuttle bids/offers this week.

Barge

For the week ending November 2, barge grain movements totaled 662,450 tons. This is a 0.2-percent decrease from the previous week and 23 percent less than the same period last year.

For the week ending November 2, 416 grain barges **moved down river**. This is 2 more barges than the previous week. There were 621 grain barges **unloaded in New Orleans**, 3 percent more than the previous week.

Ocean

For the week ending October 31, 22 **oceangoing grain vessels** were loaded in the Gulf—42 percent fewer than the same period last year. Forty vessels are expected to be loaded within the next 10 days (starting November 1). This is 27 percent fewer than the same period last year.

Feature Article/Calendar

Third-Quarter Wheat Transportation Costs Up; Landed Costs Down

Transportation costs for shipping wheat from Kansas and North Dakota to Japan through the Pacific Northwest (PNW) and U.S. Gulf increased during the third quarter 2019. Transportation costs for shipping wheat from each of these States increased from the second quarter, primarily because of higher rail and ocean rates (tables 1 and 2). Wheat farm values for each State continued to fall during the third quarter, forcing total landed costs down from second quarter 2019 (quarter to quarter) and from third quarter 2018 (year to year).

Quarter to quarter, the transportation costs for shipping wheat via PNW to Japan increased 3 percent originating from Kansas and 2 percent originating from North Dakota, primarily because of higher ocean rates (table 1). Year to year, these same costs increased 1 percent starting from Kansas and 3 percent from North Dakota, partly because of higher ocean rates.

Quarter to quarter, the transportation costs for shipping wheat via the U.S. Gulf to Japan increased 6 percent starting from Kansas and 5 percent starting from North Dakota (table 2). Year to year, these same costs increased 4 percent for both origins, Kansas and North Dakota, mainly because of higher ocean freight rates. Overall, third-quarter wheat transportation costs represented 37 to 42 percent of the landed costs (farm value plus transportation costs), which was above the previous quarter and last year.

Table 1: Quarterly rate comparisons for shipping Kansas & North Dakota wheat to Japan through the PNW

| | | | Kansas | | | | | North Dakot | a | |
|----------------------------|---------|---------|---------------|--------------|-----------|---------|---------|---------------|--------------|-----------|
| | 2018 | 2019 | 2019 | Year-to-Year | Quarterly | 2018 | 2019 | 2019 | Year-to-Year | Quarterly |
| Mode | 3rd qtr | 2nd qtr | 3rd qtr | change | change | 3rd qtr | 2nd qtr | 3rd qtr | change | change |
| | | | \$/metric ton | % | % | | | \$/metric ton | % | % |
| Truck | 10.54 | 10.98 | 9.18 | -12.90 | -16.39 | 10.54 | 10.98 | 9.18 | -12.90 | -16.39 |
| Rail ¹ | 63.41 | 62.16 | 62.93 | -0.76 | 1.24 | 56.55 | 57.96 | 57.39 | 1.49 | -0.98 |
| Ocean vessel | 24.97 | 23.56 | 27.90 | 11.73 | 18.42 | 24.97 | 23.56 | 27.90 | 11.73 | 18.42 |
| Transportation Costs | 98.92 | 96.70 | 100.01 | 1.10 | 3.42 | 92.06 | 92.50 | 94.47 | 2.62 | 2.13 |
| Farm Value ² | 184.94 | 167.67 | 147.83 | -20.07 | -11.83 | 189.48 | 175.63 | 162.53 | -14.22 | -7.46 |
| Total Landed Cost | 283.86 | 264.37 | 247.84 | -12.69 | -6.25 | 281.54 | 268.13 | 257.00 | -8.72 | -4.15 |
| Transport % of landed cost | 34.85 | 36.58 | 40.35 | - | | 32.70 | 34.50 | 36.76 | - | |

Table 2: Quarterly rate comparisons for shipping Kansas & North Dakota wheat to Japan through the Gulf

| | Kansas | | | | | | N | orth Dakot | a | |
|-----------------------------|---------|---------|---------------|--------------|-----------|---------|---------|------------|--------------|-----------|
| | 2018 | 2019 | 2019 | Year-to-Year | Quarterly | 2018 | 2019 | 2019 | Year-to-Year | Quarterly |
| Mode | 3rd qtr | 2nd qtr | 3rd qtr | change | change | 3rd qtr | 2nd qtr | 3rd qtr | change | change |
| | | | \$/metric ton | % | % | | \$ | metric ton | % | % |
| Truck | 10.54 | 10.98 | 9.18 | -12.90 | -16.39 | 10.54 | 10.98 | 9.18 | -12.90 | -16.39 |
| Rail ¹ | 42.66 | 42.88 | 43.31 | 1.52 | 1.00 | 59.73 | 60.14 | 60.57 | 1.41 | 0.71 |
| Ocean vessel | 45.23 | 42.78 | 50.05 | 10.66 | 16.99 | 45.23 | 42.78 | 50.05 | 10.66 | 16.99 |
| Transportation Costs | 98.43 | 96.64 | 102.54 | 4.18 | 6.11 | 115.50 | 113.90 | 119.80 | 3.72 | 5.18 |
| Farm Value ² | 184.94 | 167.67 | 147.83 | -20.07 | -11.83 | 189.48 | 175.63 | 162.53 | -14.22 | -7.46 |
| Total Landed Cost | 283.37 | 264.31 | 250.37 | -11.65 | -5.27 | 304.98 | 289.53 | 282.33 | -7.43 | -2.49 |
| Transport % of landed cost | 34.74 | 36.56 | 40.96 | | | 37.87 | 39.34 | 42.43 | | |

Rail tariff rates include fuel surcharges and revisions for heavy axle railcars and shuttle trains. The rail tariff rate is a base price of rail freight rates, but during periods of high rail demand or car shortages, high auction and secondary market rates could exceed the base rail tariffs per car.

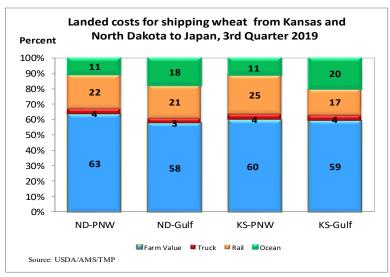
Source: USDA, Agricultural Marketing Service

The total landed costs for shipping wheat to Japan ranged from \$248 to \$282 per metric ton (mt) and were below the previous quarter and last year for each route (tables 1 and 2). Quarter to quarter, Kansas and North Dakota total landed costs decreased for each route because of lower trucking rates and farm values. Year to year, total landed costs for these same routes were down as well because of lower rail rates and farm values.

Quarter to quarter, total landed costs for shipping wheat via PNW to Japan decreased 6 percent starting from Kansas and 4 percent from North Dakota. Year to year, landed costs for the same routes decreased 13 percent starting from Kansas and 9 percent from North Dakota.

² USDA, National Agricultural Statistics Service is the source for wheat prices for North Dakota (mainly HRS) and Kansas (mainly HRW).

Quarter to quarter, landed costs to ship wheat via the U.S. Gulf to Japan decreased 5 percent starting from Kansas and 3 percent from North Dakota. Year to year, landed costs for the same routes decreased 12 percent starting from Kansas and 7 percent from North Dakota mainly because of to lower trucking rates and farm values (see table 2).



Third-quarter farm values for Kansas wheat represented 60 percent of the landed cost for shipping via PNW, and 59 percent for shipping via the Gulf—down both quarter to quarter and year to year for each route (see tables and figure). Third-quarter farm values for North Dakota wheat represented 63 percent of the landed cost for shipping via PNW and 58 percent for shipping via the Gulf likewise, down both quarter to quarter and year to year for each route (tables and figure).

Quarter to quarter, ocean freight rates for shipping wheat from PNW to Japan increased 18 percent and, from the U.S. Gulf to Japan, increased 17 percent. Year to year ocean freight rates in PNW and the U.S. Gulf increased 12 percent and 11 percent, respectively. Rates increased mainly because of strong bulk trade and high exports of iron ore from Brazil (October 31, 2019 *Grain Transportation Report*).

Quarter to quarter, rail rates for shipping wheat from Kansas to PNW increased 1 percent, but rates from North Dakota to PNW decreased 1 percent. Year to year, rail rates from Kansas to PNW decreased 1 percent, but increased more than 1 percent from North Dakota to PNW. Quarter to quarter, rail rates for shipping wheat both from Kansas and from North Dakota to the U.S. Gulf increased 1 percent. Year to year, rail rates for shipping wheat to the Gulf from Kansas increased 2 percent and increased over 1 percent from North Dakota (table 2). The cost of moving wheat from each State by truck to a rail-served grain elevator decreased 16 percent from quarter to quarter and decreased 13 percent from year to year, partly because of lower third-quarter diesel prices.

According to the Federal Grain Inspection Service, total inspections of wheat destined for export to Japan reached .578 million metric tons (mmt) during the third quarter, down 25 percent from last year. Wheat inspections destined to Japan represented 9 percent of total third-quarter wheat inspections. During the third quarter, total inspections of U.S. wheat reached 6.5 mmt, up 20 percent from last year. For the 2019/20 marketing year, year-to-date cumulative (shipped) export sales of all wheat are up 26 percent from the past year (*GTR Table 12*). *Johnny.Hill@usda.gov*

Grain Transportation Indicators

Table 1 **Grain transport cost indicators**¹

| orum trumsport to | St IIIdientois | | | | | |
|---------------------|----------------|------------|---------|-------|------|---------|
| | Truck | Rail | | Barge | 0 | cean |
| For the week ending | | Unit train | Shuttle | | Gulf | Pacific |
| 11/06/19 | 206 | n/a | 235 | 191 | 221 | 191 |
| 10/30/19 | 206 | n/a | 223 | 204 | 226 | 199 |

¹Indicator: 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.

USDA, Agricultural Marketing Service.

Table 2

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

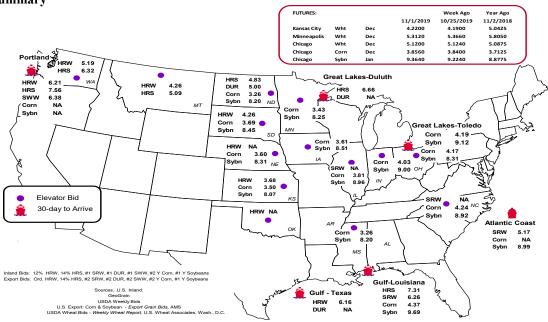
| Commodity | Origin-destination | 11/1/2019 | 10/25/2019 |
|-----------|--------------------|-----------|------------|
| Corn | IL-Gulf | -0.56 | -0.47 |
| Corn | NE-Gulf | -0.77 | -0.67 |
| Soybean | IA–Gulf | -1.18 | -1.22 |
| HRW | KS–Gulf | -2.48 | -2.45 |
| HRS | ND-Portland | -2.73 | -2.78 |

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 nort (carloads)¹

| Kan denveries to port (carioa | usj | | | | | | |
|---|-------------|------------|-----------|------------|---------|--------------------|---------------------|
| | Mississippi | | Pacific | Atlantic & | | | Cross-border |
| For the week ending | Gulf | Texas Gulf | Northwest | East Gulf | Total | Week ending | Mexico ³ |
| 10/30/2019 ^p | 550 | 462 | 5,618 | 552 | 7,182 | 10/26/2019 | 2,244 |
| 10/23/2019 ^r | 449 | 1,305 | 5,017 | 377 | 7,148 | 10/19/2019 | 2,546 |
| 2019 YTD ^r | 37,291 | 47,172 | 212,102 | 15,149 | 311,714 | 2019 YTD | 105,153 |
| 2018 YTD ^r | 20,328 | 41,510 | 271,043 | 17,939 | 350,820 | 2018 YTD | 105,911 |
| 2019 YTD as % of 2018 YTD | 183 | 114 | 78 | 84 | 89 | % change YTD | 99 |
| Last 4 weeks as % of 2018 ² | 58 | 137 | 92 | 59 | 89 | Last 4wks. % 2018 | 86 |
| Last 4 weeks as % of 4-year avg. ² | 25 | 86 | 61 | 34 | 55 | Last 4wks. % 4 yr. | 110 |
| Total 2018 | 22,118 | 46,532 | 310,449 | 21,432 | 400,531 | Total 2018 | 129,116 |
| Total 2017 | 28,796 | 75,543 | 287,267 | 21,312 | 412,918 | Total 2017 | 119,661 |

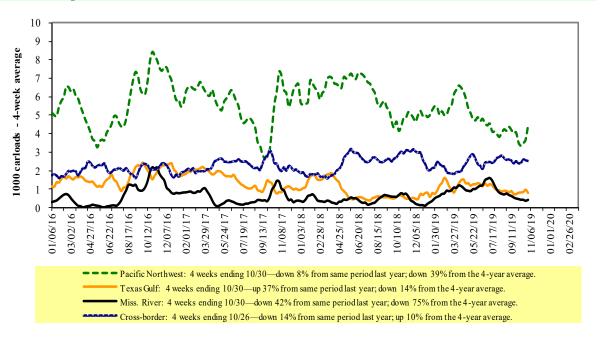
¹Data is incomplete as it is voluntarily provided.

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



Source: USDA, Agricultural Marketing Service.

² Compared with same 4-weeks in 2018 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)

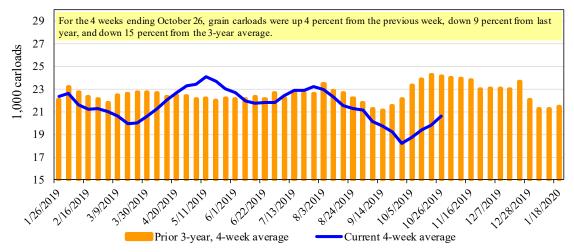
| For the week ending: | Ea | ast | | West | | U.S. total | Car | nada |
|-----------------------------------|--------|---------|---------|--------|---------|------------|---------|---------|
| 10/26/2019 | CSXT | NS | BNSF | KCS | UP | U.S. total | CN | CP |
| This week | 2,000 | 2,034 | 11,263 | 765 | 5,073 | 21,135 | 4,284 | 4,759 |
| This week last year | 2,317 | 2,384 | 12,872 | 1,109 | 4,605 | 23,287 | 4,952 | 5,266 |
| 2019 YTD | 77,848 | 115,259 | 466,726 | 48,422 | 218,010 | 926,265 | 174,686 | 191,062 |
| 2018 YTD | 82,960 | 109,887 | 530,702 | 40,577 | 223,853 | 987,979 | 171,859 | 201,373 |
| 2019 YTD as % of 2018 YTD | 94 | 105 | 88 | 119 | 97 | 94 | 102 | 95 |
| Last 4 weeks as % of 2018* | 80 | 83 | 87 | 114 | 105 | 91 | 96 | 95 |
| Last 4 weeks as % of 3-yr. avg.** | 75 | 68 | 90 | 99 | 86 | 85 | 91 | 90 |
| Total 2018 | 98,978 | 133,086 | 635,458 | 48,638 | 267,713 | 1,183,873 | 211,769 | 244,697 |

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

Source: Association of American Railroads.

Figure 3

Total weekly U.S. Class I railroad grain car loads



Source: Association of American Railroads.

Table 5

Railcar auction offerings¹ (\$/car)²

| | 8 (| | | | | | | | | |
|-------------------|---|------------------------|----------------------|------------------|--------------------|----------------------|----------------------|------------|------------|--|
| Fo | or the week ending: | Delivery period | | | | | | | | |
| | 10/31/2019 | Nov-19 | Nov-18 | Dec-19 | Dec-18 | Jan-20 | Jan-19 | Feb-20 | Feb-19 | |
| BNSF ³ | COT grain units COT grain single-car | 1 0 | 0 12 | 0 0 | 0 1 | 0 0 | 0 | 0 0 | 0 0 | |
| UP ⁴ | GCAS/Region 1 GCAS/Region 2 | no offer no bid | no offer no offer | no bid no bid | no offer no bid | no offer no offer | no offer no offer | n/a n/a | n/a n/a | |

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

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

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

Source: USDA, Agricultural Marketing Service.

^{**}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 = Certificate of Transportation; north grain and south grain bids were combined effective the week ending 6/24/06.

⁴UP - GCAS = Grain Car Allocation System.

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 November 2019, secondary market Average premium/discount to tariff (\$/car) 600 500 400 300 200 100 0 -100 -200 5/2/2019 6/13/2019 4/4/2019 1/18/2019 5/16/2019 7/11/2019 7/25/2019 9/5/2019 10/3/2019 5/30/2019 6/27/2019 8/8/2019 9/19/2019 10/17/2019 10/31/2019 11/14/2019 3/22/2019 Non-shuttle 10/31/2019 **BNSF** <u>UP</u> -- 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.

Average shuttle bids/offers rose \$259 this week and are at the peak.

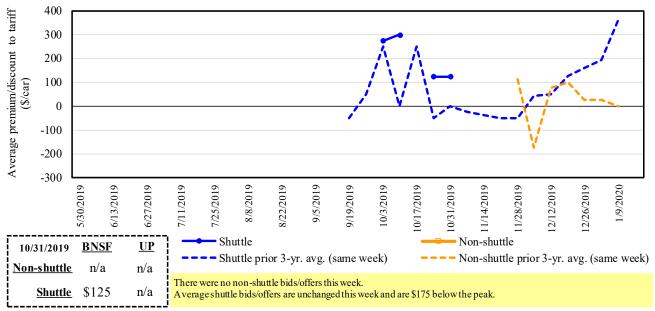
Note: Non-shuttle bids include unit-train and single-car bids. n/a = not available; avg. = average; yr. = year. Source: USDA, Agricultural Marketing Service.

\$213

Shuttle

Figure 5 Bids/offers for railcars to be delivered in December 2019, secondary market 500 Average premium/discount to tariff (\$\(\section \) (\$\(\section \) and 400 300 200 100 0 -100 -200 -300 -400 8/8/2019 0/31/2019 11/14/2019 2/12/2019 5/2/2019 7/11/2019 7/25/2019 8/22/2019 9/5/2019 0/17/2019 5/16/2019 5/30/2019 6/13/2019 6/27/2019 9/19/2019 10/3/2019 11/28/2019 <u>UP</u> 10/31/2019 **BNSF** -- 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. -\$100 n/a **Shuttle** Average shuttle bids/offers fell \$25 this week and are \$100 below the peak.

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



Note: Non-shuttle bids include unit-train and single-car bids. n/a = not available; avg. = average; yr. = year.

Source: USDA, Agricultural Marketing Service.

Table 6
Weekly secondary railcar market (\$/car)¹

| | For the week ending: | | | De | livery period | | |
|-------------|----------------------------|--------|--------|--------|---------------|--------|--------|
| | 10/31/2019 | Nov-19 | Dec-19 | Jan-20 | Feb-20 | Mar-20 | Apr-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 |
| hutt | Change from same week 2018 | n/a | n/a | n/a | n/a | n/a | n/a |
| Non-shuttle | 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 2018 | n/a | n/a | n/a | n/a | n/a | n/a |
| | BNSF-GF | 213 | n/a | 125 | 50 | n/a | n/a |
| | Change from last week | 257 | n/a | 0 | (75) | n/a | n/a |
| Shuttle | Change from same week 2018 | 413 | n/a | n/a | n/a | n/a | n/a |
| Shu | UP-Pool | n/a | (100) | n/a | n/a | n/a | n/a |
| | Change from last week | n/a | 0 | n/a | n/a | n/a | n/a |
| | Change from same week 2018 | n/a | n/a | n/a | n/a | n/a | n/a |

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

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

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

Source: USDA, Agricultural Marketing Service.

The tariff rail rate is the base price of freight rail service and—together with fuel surcharges and any auction and secondary rail values—constitute 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. High auction and secondary rail values, during times of high rail demand or short supply, can exceed the cost of the tariff rate plus fuel surcharge.

Table 7

Tariff rail rates for unit and shuttle train shipments¹

| | | | | Fuel | | | Percent |
|----------------------------|----------------------------|---------------------------------|----------|------------|-------------------|---------------------|----------------------------|
| | Origin region ³ | Destination region ³ | Tariff | surcharge_ | Tariff plus surch | bushel ² | change Y/Y ⁴ |
| November 2019 | Origin region | Destination region | rate/car | per car | metric ton | busilei | 1/1 |
| <u>Unit train</u> Wheat | Wighita VS | St. Louis, MO | \$2.082 | \$96 | \$40.51 | \$1.10 | -1 |
| wneat | Wichita, KS | | \$3,983 | | | | |
| | 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 | \$169 | \$46.61 | \$1.27 | -1 |
| | Sioux Falls, SD | Galveston-Houston, TX | \$6,976 | \$0 | \$69.28 | \$1.89 | 1 |
| | Northwest KS | Galveston-Houston, TX | \$4,801 | \$185 | \$49.52 | \$1.35 | -1 |
| | Amarillo, TX | Los Angeles, CA | \$5,121 | \$258 | \$53.41 | \$1.45 | -1 |
| Corn | Champaign-Urbana, IL | New Orleans, LA | \$3,900 | \$191 | \$40.63 | \$1.03 | -4 |
| | Toledo, OH | Raleigh, NC | \$6,816 | \$0 | \$67.69 | \$1.72 | 4 |
| | Des Moines, IA | Davenport, IA | \$2,415 | \$40 | \$24.38 | \$0.62 | 6 |
| | 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 | \$119 | \$38.92 | \$0.99 | -2 |
| | Des Moines, IA | Los Angeles, CA | \$5,680 | \$346 | \$59.84 | \$1.52 | -2 |
| Soybeans | Minneapolis, MN | New Orleans, LA | \$3,631 | \$179 | \$37.83 | \$1.03 | -13 |
| | 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 | \$191 | \$48.03 | \$1.31 | -3 |
| 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 |
| | Northwest KS | Portland, OR | \$6,012 | \$304 | \$62.72 | \$1.71 | 0 |
| 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 | \$191 | \$39.83 | \$1.01 | -1 |
| | Lincoln, NE | Galveston-Houston, TX | \$3,880 | \$0 | \$38.53 | \$0.98 | 0 |
| | Des Moines, IA | Amarillo, TX | \$4,220 | \$150 | \$43.39 | \$1.10 | 3 |
| | 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 | \$220 | \$50.60 | \$1.38 | 1 |
| | Toledo, OH | Huntsville, AL | \$4,805 | \$0 | \$47.72 | \$1.30 | 4 |
| | Grand Island, NE | Portland, OR | \$5,860 | \$311 | \$61.28 | \$1.67 | 1 |

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

⁷⁵⁻¹²⁰ cars that meet railroad efficiency requirements.

²Approximate load per car = 111 short tons (100.7 metric tons): corn 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.

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

Table 8

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

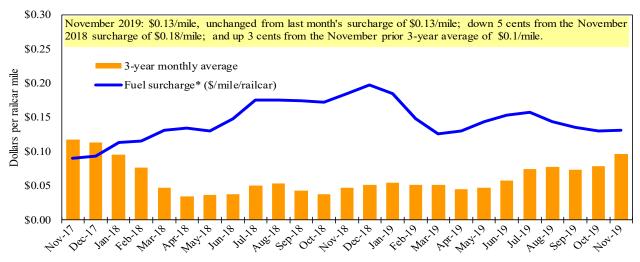
| Date | : Novembe | r 2019 | | Fuel | | | Percent |
|-----------|-----------|----------------------|-----------------------|----------------------|-------------------------|-----------------------|---------------------|
| | Origin | | Tariff | surcharge | Tariff plus surcl | harge per: | change ⁴ |
| Commodity | state | Destination region | rate/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 | \$132 | \$70.58 | \$1.92 | 0 |
| | KS | Guadalajara, JA | \$7,534 | \$594 | \$83.04 | \$2.26 | 4 |
| | TX | Salinas Victoria, NL | \$4,329 | \$80 | \$45.05 | \$1.22 | -1 |
| Corn | IA | Guadalajara, JA | \$8,902 | \$509 | \$96.15 | \$2.44 | 6 |
| | SD | Celaya, GJ | \$8,140 | \$0 | \$83.17 | \$2.11 | 3 |
| | NE | Queretaro, QA | \$8,278 | \$271 | \$87.35 | \$2.22 | 0 |
| | SD | Salinas Victoria, NL | \$6,905 | \$0 | \$70.55 | \$1.79 | 0 |
| | MO | Tlalnepantla, EM | \$7,643 | \$264 | \$80.79 | \$2.05 | 0 |
| | SD | Torreon, CU | \$7,690 | \$0 | \$78.57 | \$1.99 | 3 |
| Soybeans | MO | Bojay (Tula), HG | \$8,547 | \$475 | \$92.18 | \$2.51 | 4 |
| | NE | Guadalajara, JA | \$9,172 | \$497 | \$98.78 | \$2.69 | 5 |
| | IA | El Castillo, JA | \$9,490 | \$0 | \$96.97 | \$2.64 | 4 |
| | KS | Torreon, CU | \$7,964 | \$344 | \$84.88 | \$2.31 | 4 |
| Sorghum | NE | Celaya, GJ | \$7,772 | \$450 | \$84.01 | \$2.13 | 4 |
| | KS | Queretaro, QA | \$8,108 | \$165 | \$84.53 | \$2.15 | 1 |
| | NE | Salinas Victoria, NL | \$6,713 | \$133 | \$69.94 | \$1.77 | 1 |
| | NE | Torreon, CU | \$7,157 | \$319 | \$76.39 | \$1.94 | 3 |

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



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, Union Pacific Railroad, Kansas City Southern, Norfolk Southern Corp.

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.

 $^{^4}$ Percentage change calculated using tariff rate plus fuel surchage; Y/Y = year to year.

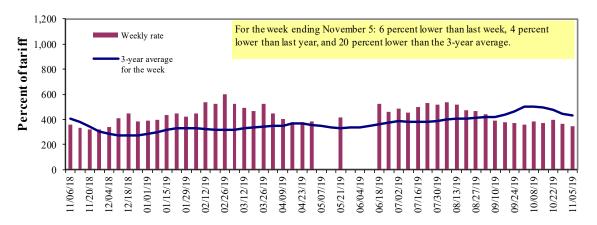
^{*} Beginning January 2009, the Canadian Pacific fuel surcharge is computed by a monthly average of the bi-weekly fuel surcharge.

^{**}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, Agricultural Marketing Service.

Weekly barge freight rates: Southbound only

| | | Twin Cities | Mid- Mississippi | Lower Illinois River | St. Louis | Cincinnati | Lower Ohio | Cairo- Memphis |
|-------------------|------------------------------------|----------------|---------------------|----------------------------|---------------|----------------|----------------|-------------------|
| Rate ¹ | 11/5/2019 10/29/2019 | 416 385 | 348 386 | 344 367 | 246 261 | 253 281 | 253 281 | 225 234 |
| \$/ton | 11/5/2019 10/29/2019 | 25.75 23.83 | 18.51 20.54 | 15.96 17.03 | 9.82 10.41 | 11.87 13.18 | 10.22 11.35 | 7.07 7.35 |
| Curren | t week % chang | | | | | | | |
| | Last year 3-year avg. ² | -13 | -5 -20 | -4 -20 | -8 -28 | -12 -38 | -12 -38 | -10 -25 |
| Rate ¹ | November January | - | - | 345 365 | 246 246 | 253 253 | 253 253 | 225 225 |

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:

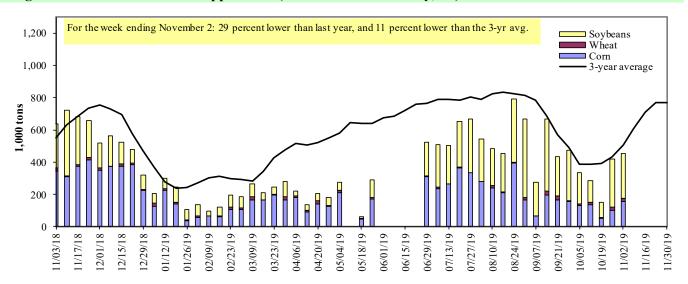
(Rate * 1976 tariff benchmark rate per ton)/100

Select applicable index from market quotes 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 11/02/2019 | Corn | Wheat | Soybeans | Other | Total |
|--|--------|-------|----------|-------|--------|
| Mississippi River | | | | | |
| Rock Island, IL (L15) | 50 | 2 | 201 | 0 | 252 |
| Winfield, MO (L25) | 109 | 6 | 207 | 0 | 323 |
| Alton, IL (L26) | 134 | 11 | 274 | 0 | 418 |
| Granite City, IL (L27) | 158 | 16 | 280 | 0 | 453 |
| Illinois River (LAGRANGE) | 21 | 3 | 32 | 0 | 56 |
| Ohio River (OLMSTED) | 62 | 0 | 109 | 0 | 172 |
| Arkansas River (L1) | 0 | 6 | 32 | 0 | 38 |
| Weekly total - 2019 | 220 | 21 | 421 | 0 | 662 |
| Weekly total - 2018 | 441 | 33 | 384 | 0 | 858 |
| 2019 YTD ¹ | 10,352 | 1,432 | 10,829 | 136 | 22,750 |
| 2018 YTD ¹ | 19,977 | 1,465 | 10,200 | 98 | 31,739 |
| 2019 as % of 2018 YTD | 52 | 98 | 106 | 139 | 72 |
| Last 4 weeks as % of 2018 ² | 64 | 217 | 158 | 16 | 105 |
| Total 2018 | 23,349 | 1,674 | 12,819 | 133 | 37,975 |

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.

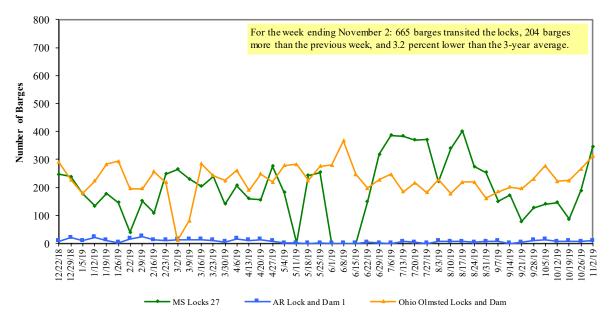
Note: 1. Total may not add exactly, due to rounding.

Source: U.S. Army Corps of Engineers.

² As a percent of same period in 2018.

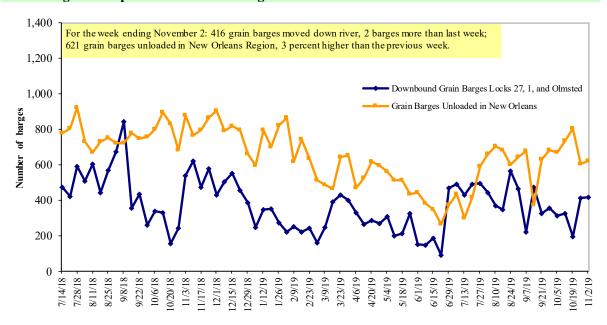
^{2.} Starting from 11/24/2018, weekly movement through Ohio 52 is replaced by Olmsted.

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**



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

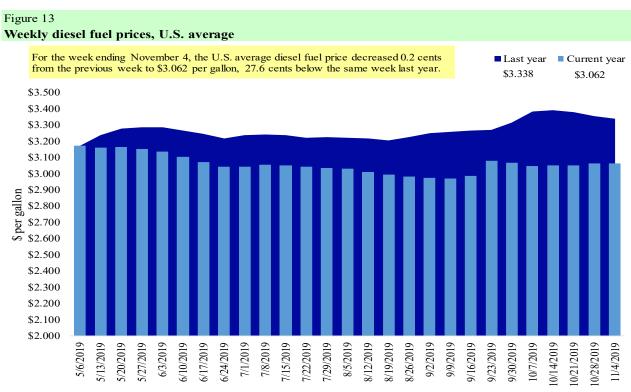
Table 11

Retail on-highway diesel prices, week ending 11/4/2019 (U.S. \$/gallon)

| | | | Change | e from |
|--------|----------------------------|-------|----------|----------|
| Region | Location | Price | Week ago | Year ago |
| I | East Coast | 3.041 | -0.015 | -0.288 |
| | New England | 3.034 | 0.006 | -0.328 |
| | Central Atlantic | 3.244 | -0.002 | -0.254 |
| | Lower Atlantic | 2.905 | -0.027 | -0.300 |
| II | Midwest | 2.955 | -0.008 | -0.331 |
| III | Gulf Coast | 2.795 | -0.011 | -0.311 |
| IV | Rocky Mountain | 3.166 | 0.084 | -0.232 |
| V | West Coast | 3.746 | 0.022 | -0.087 |
| | West Coast less California | 3.413 | 0.034 | -0.125 |
| | California | 4.011 | 0.013 | -0.057 |
| Total | U.S. | 3.062 | -0.002 | -0.276 |

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)

| | - | | Who | eat | | | Corn | Soybeans | Total |
|--|-------|-------|-------|-------|-----|-----------|--------|----------|---------|
| For the week ending | HRW | SRW | HRS | SWW | DUR | All wheat | | | |
| Export balances ¹ | | | | | | | | | _ |
| 10/24/2019 | 1,191 | 573 | 1,234 | 943 | 279 | 4,221 | 7,784 | 11,317 | 23,321 |
| This week year ago | 1,407 | 584 | 1,726 | 995 | 121 | 4,833 | 12,587 | 13,964 | 31,383 |
| Cumulative exports-marketing year ² | | | | | | | | | |
| 2019/20 YTD | 4,196 | 1,249 | 2,759 | 1,837 | 318 | 10,357 | 3,621 | 7,955 | 21,933 |
| 2018/19 YTD | 2,361 | 980 | 2,455 | 2,212 | 243 | 8,252 | 9,246 | 7,385 | 24,883 |
| YTD 2019/20 as % of 2018/19 | 178 | 127 | 112 | 83 | 131 | 126 | 39 | 108 | 88 |
| Last 4 wks as % of same period 2018/19 | 90 | 101 | 73 | 99 | 180 | 89 | 62 | 87 | 77 |
| 2018/19 Total | 8,591 | 3,204 | 6,776 | 5,164 | 479 | 24,214 | 48,924 | 46,189 | 119,327 |
| 2017/18 Total | 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 10/24/2019 | Total comn | nitments 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 | 6,110 | 7,093 | (14) | 14,659 |
| Japan | 1,597 | 3,380 | (53) | 11,955 |
| Korea | 71 | 1,813 | (96) | 4,977 |
| Colombia | 580 | 1,076 | (46) | 4,692 |
| Peru | 0 | 817 | (100) | 2,808 |
| Top 5 Importers | 8,358 | 14,179 | (41) | 39,091 |
| Total U.S. corn export sales | 11,405 | 21,832 | (48) | 54,024 |
| % of projected exports | 24% | 42% | | |
| Change from prior week ² | 549 | 395 | | |
| Top 5 importers' share of U.S. corn | | | | |
| export sales | 73% | 65% | | 72% |
| USDA forecast, October 2019 | 48,346 | 52,545 | (8) | |
| Corn use for ethanol USDA | | | | |
| forecast, October 2019 | 137,160 | 136,551 | 0 | |

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

Note: (n) indicates 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 (carryover plus accumulated export; yr. = year; avg. = average.

Table 14

Top 5 importers¹ of U.S. soybeans

| For the week ending 10/24/2019 | 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 - | | - 1,000 mt - |
| China | 6,190 | 964 | 542 | 25,733 |
| Mexico | 2,498 | 3,265 | (23) | 4,271 |
| Indonesia | 504 | 694 | (27) | 2,386 |
| Japan | 781 | 744 | 5 | 2,243 |
| Egypt | 739 | 650 | 14 | 1,983 |
| Top 5 importers | 10,711 | 6,316 | 70 | 36,616 |
| Total U.S. soybean export sales | 19,271 | 21,349 | (10) | 53,746 |
| % of projected exports | 40% | 45% | | |
| change from prior week ² | 944 | 396 | | |
| Top 5 importers' share of U.S. | | | | |
| soybean export sales | 56% | 30% | | 68% |
| USDA forecast, October 2019 | 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: (n) indicates negative number; mt = metric ton

Source: USDA, Foreign Agricultural Service.

Table 15

Top 10 importers¹ of all U.S. wheat

| For the week ending 10/24/2019 | Total comm | nitments ² | % change | Exports ³ |
|-------------------------------------|------------|-----------------------|--------------|----------------------|
| <u> </u> | 2019/20 | 2018/19 | current MY | 3-yr. avg. |
| | current MY | last MY | from last MY | 2016-18 |
| | - 1,000 | mt - | | - 1,000 mt - |
| Philippines | 1,727 | 1,824 | (5) | 3,047 |
| Mexico | 2,216 | 1,522 | 46 | 3,034 |
| Japan | 1,517 | 1,609 | (6) | 2,695 |
| Nigeria | 915 | 583 | 57 | 1,564 |
| Indonesia | 357 | 335 | 7 | 1,381 |
| Korea | 830 | 855 | (3) | 1,355 |
| Taiwan | 730 | 569 | 28 | 1,164 |
| Egypt | 101 | 50 | 102 | 821 |
| Thailand | 418 | 538 | (22) | 747 |
| Iraq | 262 | 362 | (27) | 574 |
| Top 10 importers | 9,072 | 8,246 | 10 | 16,382 |
| Total U.S. wheat export sales | 14,578 | 13,084 | 11 | 24,388 |
| % of projected exports | 56% | 51% | | |
| change from prior week ² | 494 | 583 | | |
| Top 10 importers' share of U.S. | | | | |
| wheat export sales | 62% | 63% | | 67% |
| USDA forecast, October 2019 | 25,886 | 25,504 | 1 | |

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

(n) indicates negative number; mt = metric ton.

Source: USDA, Foreign 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 reivisions from previous eweek's outstanding sales and/or accumulated sales.

³FAS Marketing year ranking reports (carryover 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 (carryover plus accumulated export); yr. = year; avg. = average. .

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

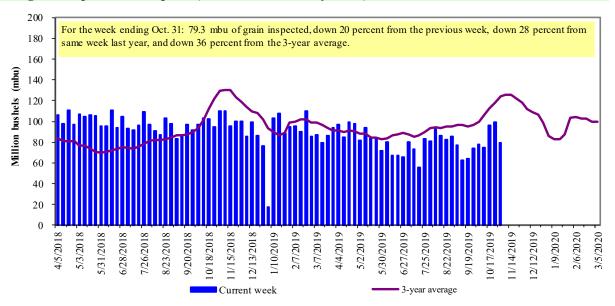
| | For the week ending | Previous | Current week | | | 2019 YTD as | Last 4-we | eeks as % of: | |
|-----------------------|---------------------|----------|------------------|-----------|-----------|---------------|-----------|------------------|-------------|
| Port regions | 10/31/19 | week* | as % of previous | 2019 YTD* | 2018 YTD* | % of 2018 YTD | Last year | Prior 3-yr. avg. | 2018 total* |
| Pacific Northwest | | | | | | | | | |
| Wheat | 189 | 324 | 58 | 11,805 | 11,005 | 107 | 125 | 174 | 13,315 |
| Corn | 0 | 0 | n/a | 6,922 | 17,541 | 39 | 0 | 1 | 20,024 |
| Soybeans | 498 | 421 | 118 | 8,887 | 7,240 | 123 | 149 | 47 | 7,719 |
| Total | 687 | 745 | 92 | 27,614 | 35,785 | 77 | 94 | 68 | 41,058 |
| Mississippi Gulf | | | | , | , | | | | , |
| Wheat | 12 | 89 | 13 | 4,007 | 3,367 | 119 | 56 | 71 | 3,896 |
| Corn | 119 | 262 | 46 | 18,178 | 29,611 | 61 | 49 | 57 | 33,735 |
| Soybeans | 861 | 1,025 | 84 | 24,077 | 22,019 | 109 | 113 | 80 | 28,124 |
| Total | 992 | 1,377 | 72 | 46,262 | 54,997 | 84 | 84 | 73 | 65,755 |
| Texas Gulf | | | | | | | | | |
| Wheat | 51 | 118 | 43 | 5,568 | 2,545 | 219 | 180 | 107 | 3,198 |
| Corn | 0 | 2 | 0 | 579 | 665 | 87 | 7 | 6 | 730 |
| Soybeans | 0 | 0 | n/a | 2 | 69 | 2 | n/a | 0 | 69 |
| Total | 51 | 121 | 42 | 6,149 | 3,278 | 188 | 153 | 61 | 3,997 |
| Interior | | | | | | | | | |
| Wheat | 20 | 23 | 86 | 1,631 | 1,390 | 117 | 118 | 118 | 1,614 |
| Corn | 151 | 108 | 140 | 6,406 | 7,554 | 85 | 73 | 88 | 8,650 |
| Soybeans | 152 | 210 | 72 | 5,923 | 5,825 | 102 | 84 | 85 | 6,729 |
| Total | 323 | 342 | 95 | 13,959 | 14,770 | 95 | 81 | 89 | 16,993 |
| Great Lakes | | | | | | | | | |
| Wheat | 38 | 32 | 118 | 974 | 698 | 139 | 292 | 175 | 894 |
| Corn | 0 | 11 | 0 | 11 | 404 | 3 | 19 | 38 | 404 |
| Soybeans | 0 | 0 | n/a | 473 | 899 | 53 | 0 | 0 | 1,192 |
| Total | 38 | 44 | 87 | 1,459 | 2,001 | 73 | 32 | 30 | 2,491 |
| Atlantic | | | | | | | | | |
| Wheat | 0 | 0 | n/a | 37 | 69 | 54 | n/a | 0 | 69 |
| Corn | 0 | 0 | n/a | 99 | 124 | 80 | 10 | 3 | 138 |
| Soybeans | 48 | 50 | 96 | 1,137 | 1,596 | 71 | 137 | 56 | 2,047 |
| Total | 48 | 50 | 96 | 1,274 | 1,789 | 71 | 121 | 46 | 2,253 |
| U.S. total from ports | * | | | | | | | | |
| Wheat | 309 | 587 | 53 | 24,023 | 19,074 | 126 | 121 | 135 | 22,986 |
| Corn | 271 | 384 | 70 | 32,195 | 55,899 | 58 | 42 | 56 | 63,682 |
| Soybeans | 1,558 | 1,706 | 91 | 40,499 | 37,648 | 108 | 109 | 65 | 45,879 |
| Total | 2,138 | 2,678 | 80 | 96,717 | 112,621 | 86 | 86 | 71 | 132,547 |

^{*}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.

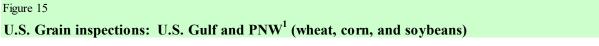
The United States exports approximately one-quarter of the grain it produces. On average, this includes nearly 45 percent of U.S.-grown wheat, 50 percent of U.S.-grown soybeans, and 20 percent of the U.S.-grown corn. Approximately 53 percent of the U.S. export grain shipments departed through the U.S. Gulf region in 2018.

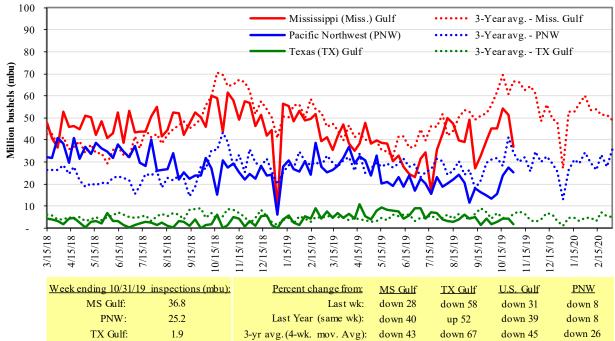
Figure 14
U.S. grain inspected for export (wheat, corn, and soybeans)



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

Source: USDA, Federal Grain Inspection Service.





Source: USDA, Federal Grain Inspection Service.

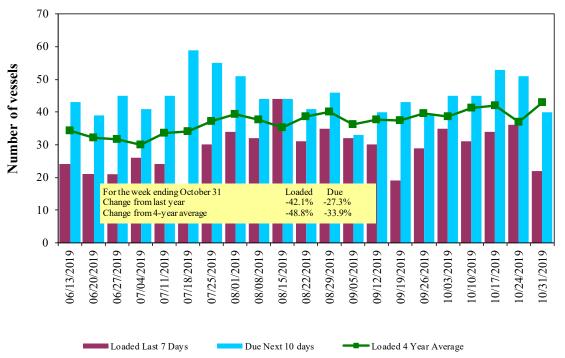
Ocean Transportation

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

| , r | | | , | Pacific |
|--------------|---------|--------|----------|-----------|
| | | Gulf | | Northwest |
| | | Loaded | Due next | |
| Date | In port | 7-days | 10-days | In port |
| 10/31/2019 | 42 | 22 | 40 | 13 |
| 10/24/2019 | 27 | 36 | 51 | 18 |
| 2018 range | (2388) | (2441) | (3867) | (430) |
| 2018 average | 40 | 34 | 54 | 17 |

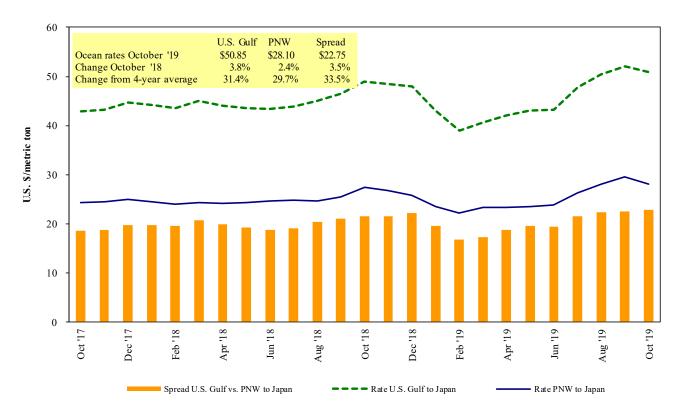
Source: USDA, Agricultural Marketing Service.

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 11/02/2019

| Export | Import | Grain | Loading | Volume loads | Freight rate |
|-----------|-------------|--------------|-----------|---------------|-------------------|
| region | region | types | date | (metric tons) | (US\$/metric ton) |
| U.S. Gulf | Bangladesh | Wheat | Dec 10/20 | 48,990 | 79.92* |
| U.S. Gulf | China | Heavy Grain | Nov 15/18 | 66,000 | 49.00 |
| U.S. Gulf | Pt Sudan | Sorghum | Sep 20/30 | 24,960 | 58.15* |
| U.S. Gulf | Somaliland | Sorghum | Sep 20/30 | 32,240 | 61.75* |
| PNW | Bangladesh | Wheat | Dec 10/20 | 23,080 | 74.44* |
| PNW | Philippines | Soybean Meal | Oct 31/31 | 15,390 | 49.82* |
| PNW | Vietnam | Soybean Meal | Oct 21/31 | 3,200 | 49.82* |
| PNW | Yemen | Wheat | Sep 5/15 | 35,380 | 59.59* |
| PNW | Yemen | Wheat | Sep 20/30 | 35,000 | 62.19* |
| Brazil | China | Heavy Grain | Oct 1/10 | 65,000 | 32.00 |
| Ukraine | Egypt Med | Heavy Grain | Oct 19/23 | 60,000 | 13.50 |

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

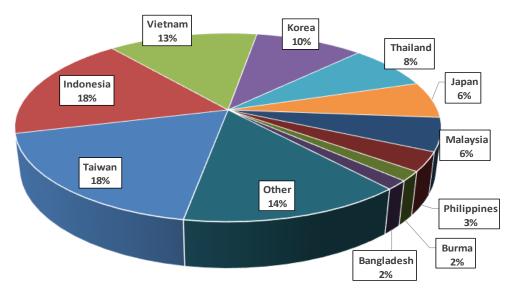
Note: Rates shown are per metric ton (2,204.62 lbs. = 1 metric ton), free on board (F.O.B), except where otherwise indicated; op = option.

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, Jan-Jul 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, 120100, 120810, 230210, 230210, 230330, and 230990.

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

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