



Grain Transportation Report

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

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The next release is September 24, 2020 WEEKLY HIGHLIGHTS

ATRI Launches 2020 Top Industry Issues Survey

In its 2020 Top Industry Issues Survey (open until October 16), the American Transportation Research Institute (ATRI) asks trucking industry stakeholders to rank the top issues of concern for the industry, along with potential strategies for addressing each issue. In addition to ranking overall issues, the survey provides details on where critical topics are ranked differently by motor carriers and professional drivers, and allows stakeholders to monitor issues over time to better understand which issues are rising, or falling priorities.

CARB Approves Update to "At Berth" Regulation

On August 27, the California Air Resources Board (CARB) approved updates to its 2007 "At Berth" regulation, further reducing pollution from oceangoing vessels while they are docked at California's busiest ports. The revised regulation requires every vessel (rather than only select categories) docked in a regulated California port to use either shore power—i.e., the local electrical grid—or a CARB-approved control technology to reduce harmful emissions. The updated regulation adds auto carriers and tankers, which may be used for ethanol, to existing, already covered categories (i.e., container, reefer, and cruise vessels). Auto carriers and tankers docking at the Port of Los Angeles and the Port of Long Beach will need to comply starting in 2025, and tankers in Northern California have until 2027.

Lawsuit filed Alleging Overcharges and Restrictions for Chassis at Ports and Inland Terminals

Grain Inspections Down but Above 4-Week and 3-year Averages

For the week ending September 10, total inspections of grain (corn, wheat, and soybeans) for export from all major U.S. export regions totaled 2.83 million metric tons (mmt). Total grain inspections were down 8 percent from the previous week, up 71 percent from last year, and up 27 percent from the 3-year average. Inspections were down 9 percent from the previous week for wheat; down 12 percent for soybeans; and down 1 percent for corn. Mississippi Gulf grain inspections decreased 12 percent from the previous week, and Pacific Northwest (PNW) grain inspections decreased 11 percent. During the last four weeks however, inspections were 28 percent above last year and 18 percent above the 3-year average as shipments destined to Asia and Latin America remained strong.

Snapshots by Sector

Export Sales

For the week ending September 3, **unshipped balances** of wheat, corn, and soybeans totaled 53.6 million metric tons (mmt). This represented a significant increase in outstanding sales from the same time last year. Net **corn export sales** for the new marketing year which began September 1, were 1.8 mmt. Net **soybean export sales** for the new marketing year which began September 1 were 3.2 mmt. Net weekly **wheat export sales** were 0.484 mmt, down 17 percent from the previous week.

Rail

U.S. Class I railroads originated 23,003 grain carloads during the week ending September 5. This was a 6-percent increase from the previous week, 32 percent more than last year, and 24 percent more than the 3-year average.

Average September shuttle **secondary railcar** bids/offers (per car) were \$800 above tariff for the week ending September 10. This was \$244 more than last week and \$994 more than this week last year. There were no non-shuttle bids/offers this week.

Barge

For the week ending September 12, barge grain movements totaled 803,640 tons. This was 1 percent more than the previous week and 9 percent more than the same period last year.

For the week ending September 12, 514 grain barges **moved down river**—4 more barges than the previous week. There were 912 grain barges **unloaded in New Orleans**, 11 percent more than the previous week.

Ocean

For the week ending September 10, 43 occangoing grain vessels were loaded in the Gulf—43 percent more than the same period last year. Within the next 10 days (starting September 11), 65 vessels were expected to be loaded—63 percent more than the same period last year.

As of September 10, the rate for shipping a metric ton (mt) of grain from the U.S. Gulf to Japan was \$44.00. This was 2 percent less than the previous week. The rate from the Pacific Northwest (PNW) to Japan was \$24.00 per mt, 3 percent less than the previous week.

Fuel

For the week ending September 14, the U.S. average **diesel fuel price** decreased 1.3 cents from the previous week to \$2.422 per gallon, 56.5 cents below the same week last year.

Feature Article/Calendar

Grain Transportation Update

Most movement and price indicators—across all modes—have been mixed so far in 2020, compared to the same period in 2019 and historical averages. Prices are relatively low for truck, barge, and ocean movements, but have increased for rail. Grain movements, while generally low this year, have picked up in recent weeks. As of September 5, grain carloads were slightly down from a year ago but have trended up lately. The year-to-date (YTD) barge tonnage is higher than the same time in 2019, but lower than the 3-year average. According to the September World Agricultural Supply and Demand Estimates (WASDE) report released last week, total exports of the three major grains (corn, wheat and soybeans) are expected to reach 5.4 billion bushels in 2020/21. This amounts to a 23-percent increase from 2019/20, which in turn, could boost the demand for export grain movements.

Increased Rail Carloads of Grain in Recent Weeks

According to data from the Association of American Railroads, as of September 5, total rail traffic is down 11 percent so far this year compared to last year. YTD carloads of grain originated by U.S. Class I railroads, while down 4 percent, have trended upward since early July (GTR fig. 3). This week, 23,003 carloads of grain were originated, which is the highest seen so far this year. Increased freight movements have been associated with well above average rates in the secondary auction market (GTR fig. 4) and generally slower grain train speeds. For more on recent trends facing railroads and grain, see last week's feature article, "Grain Rail Supply and Demand in Advance of the 2020 Harvest."

Despite Navigation Issues, Barge Movements Show Similar Seasonable Patten

In recent months, the inland waterways have faced various navigation challenges. In early July, the U.S. Army Corps of Engineers Rock Island District started repairs to the locks and dams along the Illinois Waterway. Five locks and dams

(between Dresden Island Lock and Dam and LaGrange Lock and Dam) are scheduled to remain closed until the end of October. Portions of the Mid-Mississippi River (and below) experienced some water and dredging issues in the early weeks of this quarter. In late August, the lower Mississippi and Gulf areas experienced severe weather conditions, such as Hurricane Laura and heavy rain, that caused temporary halts in barge operation.

Despite these shocks to the navigation system, barge movements of grain for most of the third quarter followed a similar pattern as previous years. Starting from the second week of July, barge movements of grains slowed down and stayed relatively stable as the previous years (fig. 1). Volatility in barge movements has been milder this year—weekly fluctuations in tonnages average 130 thousand tons, compared to 250 thousand tons in 2017 and 2018. For the week ending September 12, YTD barge grain shipments are 33 percent higher than the same time in 2019, but 5 percent lower than the average of the previous four years (GTR Table 10).

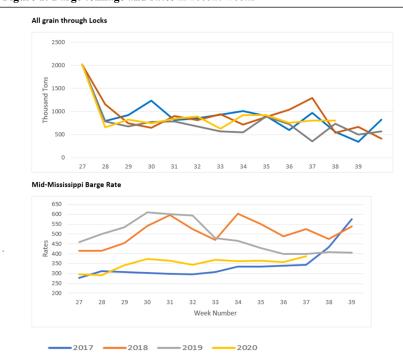


Figure 1: Barge tonnage and rates in recent weeks

Source: USDA, Agricultural Marketing Service,

While the closure of northern Illinois River for repairs from the end of June affected shippers' ability to use that portion of the river, third quarter movements do not show noticeable differences from what is typically seen during a slow traffic period for the Illinois River. This is a sign that shippers may have employed other options, such as continued storage, trucking to the Mississippi River below the closed locks, or shipping by rail.

Barge rates in this quarter are noticeably down from the previous two years and about 20 percent below the 4-year average.¹ However, rates are still higher than 2017 during most of the quarter. In 2017, a high supply of barges and generally fluid logistics allowed rates to remain low, even with some highwater challenges. A combination of adequate supply of barges and towboats, low bids due to the unstable weather condition, and market uncertainty, may explain the relatively low barge rates in this quarter.

Dry-Bulk Freight Rates Remained Relatively Low

Ocean freight rates for shipping bulk grain have decreased the last two weeks. The rates are still relatively low, compared to the beginning of the year and the same period in 2019 (year to year), but slightly above the 4-year average. During the week ending September 10, 2020, the cost of shipping bulk grain from the U.S. Gulf to Japan was \$44.00 per metric ton (mt), down 4 percent from January 2, 2020, down 15 percent from year to year, and up 2 percent from the 4-year average. As of September 10, 2020, the cost of shipping from the Pacific Northwest (PNW) was \$24.00 per mt, down 4 percent from January 2, 2020, down 19 percent year to year, and up 1 percent from the 4-year average. Ocean freight rates have fluctuated since the beginning of the year, as cargo demand attempts to catch up with vessel supply. According to September 10 *Transportation and Export Report* by O'Neil Commodity Consulting, "China demand for grain has been the only bright spot for vessel owners but has not been enough to keep rates up." The average number of oceangoing grain vessels expected to load within the next 10 days in the U.S. Gulf has increased since the past 3 weeks. Over the last three weeks (August 27 to September 10), an average of 62 oceangoing grain vessels were expected to load within the next 10 days, compared to 39 vessels during the prior 10 weeks.

Average Diesel Fuel Prices Increase Slightly Throughout Summer Months

Since late May, average U.S. on-highway diesel fuel prices have increased by just under 4 cents per gallon to \$2.435. Prices remain more than 50 cents below the same time last year and 21 cents below the 2020 peak, which occurred in the first week of January. According to the Department of Energy's Energy Information Administration (EIA), U.S. crude oil stocks reached peak levels in July, keeping downward pressure on diesel fuel prices. EIA expects the shift from building crude oil inventory to drawing on inventory to continue through the end of the year. High inventory levels and surplus crude oil production capacity will limit upward pressure on oil prices.

Outlook for 2020/21

According to the September WASDE, total exports of the three major grains are expected to reach 5.4 billion bushels in 2020/21, up 23 percent from 2019/20 (see table). Foreign demand for corn is expected to recover as a result of the large U.S. crop and competitive prices. Demand for U.S. soybeans is expected to recover as well, mainly due to increased exports to China. Projected soybean exports now account for 48 percent of total use. In 2020/21, U.S. corn exports are projected to increase 32 percent from 2019/20 due to reduced production in the European Union and Ukraine. Demand for U.S. wheat has increased also due in part to lower production in Europe and increased demand from China. Soybean exports for 2020/21 are expected to increase by 26 percent from 2019/20, and wheat exports are expected to increase by 1 percent. (see table). YTD export sales commitments of corn for 2020/21 are significantly above the same time last year because of increased

| Table 1. Major grains: production and use, September 2020, million bushels | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|
| Corn | Soybeans | Wheat | Total | Y/Y | | | | | | |
| Unite | d States 2020/21 | (Projected) | | | | | | | | |
| 14,900 | 4,313 | 1,838 | 21,051 | 10.3% | | | | | | |
| 2,325 | 2,125 | 975 | 5,425 | 23.0% | | | | | | |
| 12,350 | 2,318 | 1,111 | 15,779 | 3.9% | | | | | | |
| 2,503 | 460 | 925 | | | | | | | | |
| 14,675 | 4,442 | 2,086 | | | | | | | | |
| 17.1% | 10.4% | 44.3% | | | | | | | | |
| Unite | d States 2019/20 | (Estimated) | | | | | | | | |
| 13,617 | 3,552 | 1,920 | 19,089 | -7.6% | | | | | | |
| 1,765 | 1,680 | 965 | 4,410 | -7.3% | | | | | | |
| 11,865 | 2,222 | 1,096 | 15,183 | -2.3% | | | | | | |
| 2,253 | 575 | 1,044 | | | | | | | | |
| 13,630 | 3,903 | 2,061 | | | | | | | | |
| 16.5% | 14.7% | 50.7% | | | | | | | | |
| | 2018/19 | | | | | | | | | |
| 14,340 | 4,428 | 1,885 | 20,653 | | | | | | | |
| 2,066 | 1,752 | 937 | 4,755 | | | | | | | |
| 12,222 | 2,219 | 1,102 | 15,543 | | | | | | | |
| 2,221 | 909 | 1,080 | | | | | | | | |
| 14,288 | 3,971 | 2,039 | | | | | | | | |
| 15.5% | 22.9% | 53.0% | | | | | | | | |
| | Corn Unite 14,900 2,325 12,350 2,503 14,675 17.1% Unite 13,617 1,765 11,865 2,253 13,630 16.5% 14,340 2,066 12,222 2,221 14,288 | Corn Soybeans United States 2020/2. 14,900 4,313 2,325 2,125 12,350 2,318 2,503 460 14,675 4,442 17.1% 10.4% United States 2019/26 13,617 3,552 1,765 1,680 11,865 2,222 2,253 575 13,630 3,903 16.5% 14.7% 2018/19 14,340 4,428 2,066 1,752 12,222 2,219 2,221 909 14,288 3,971 | Corn Soybeans Wheat United States 2020/21 (Projected) 14,900 4,313 1,838 2,325 2,125 975 12,350 2,318 1,111 2,503 460 925 14,675 4,442 2,086 17.1% 10.4% 44.3% United States 2019/20 (Estimated) 13,617 3,552 1,920 1,765 1,680 965 11,865 2,222 1,096 2,253 575 1,044 13,630 3,903 2,061 16.5% 14.7% 50.7% 2018/19 14,340 4,428 1,885 2,066 1,752 937 12,222 2,219 1,102 2,221 909 1,080 14,288 3,971 2,039 | Corn Soybeans Wheat Total United States 2020/21 (Projected) 14,900 4,313 1,838 21,051 2,325 2,125 975 5,425 12,350 2,318 1,111 15,779 2,503 460 925 14,675 4,442 2,086 17.1% 10.4% 44.3% United States 2019/20 (Estimated) 13,617 3,552 1,920 19,089 1,765 1,680 965 4,410 11,865 2,222 1,096 15,183 2,253 575 1,044 13,630 3,903 2,061 16.5% 14.7% 50.7% 2018/19 14,340 4,428 1,885 20,653 2,066 1,752 937 4,755 12,222 2,219 1,102 15,543 2,221 909 1,080 14,288 3,971 2,039 | | | | | | |

 $Source: USDA, World\ Agricultural\ Supply\ and\ Demand\ Estimates, September\ 2020$

exports to China and Japan. YTD soybean export commitments for 2020/21 are also significantly up from last year due to increased sales to China. Total wheat commitments for 2020/21 are up 8 percent from 2019/20 (GTR, Tables 13-15).

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¹ Due to the closure of Illinois River, Mid-Mississippi quarterly barge rates are used for analysis in this article.

Grain Transportation Indicators

Grain transport cost indicators¹

| | Truck | Ra | Rail | | Ocean | |
|---------------------|-------|------------|---------|-----|-------|---------|
| For the week ending | | Unit train | Shuttle | | Gulf | Pacific |
| 09/16/20 | 163 | 280 | 255 | 212 | 197 | 170 |
| 09/09/20 | 163 | 280 | 245 | 196 | 201 | 176 |

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);

Source: USDA, Agricultural Marketing Service.

Table 2

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

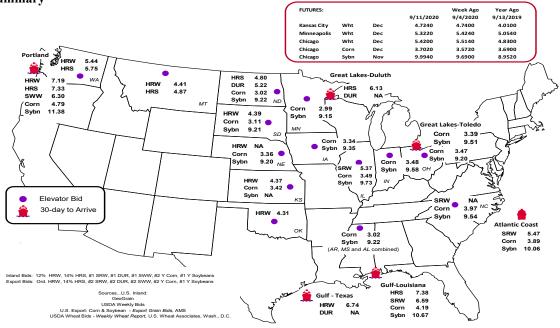
| Commodity | Origin-destination | 9/11/2020 | 9/4/2020 |
|-----------|--------------------|-----------|----------|
| Corn | IL-Gulf | -0.70 | -0.68 |
| Corn | NE-Gulf | -0.83 | -0.86 |
| Soybean | IA-Gulf | -1.32 | -1.32 |
| HRW | KS–Gulf | -2.37 | -2.32 |
| HRS | ND-Portland | -2.53 | -2.62 |

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



^{*}Due to the closure of several lock and dam facilities on Illinois River between July 1 and October 27, 2020, mid-Mississippi barge rate was substituted for Illinois rate as the benchmark for calculating cost index during the closures. n/a = not available.

Rail Transportation

Table 3

Rail deliveries to port (carloads)¹

| For the week ending | Mississippi Gulf | Texas Gulf | Pacific Northwest | Atlantic & East Gulf | Total | Week ending | Cross-border Mexico ³ |
|---|---------------------|------------|----------------------|----------------------|---------|--------------------|-------------------------------------|
| 9/09/2020 ^p | 1,169 | 1,311 | 5,885 | 304 | 8,669 | 9/5/2020 | 1,571 |
| 9/02/2020 ^r | 1,257 | 1,015 | 5,053 | 184 | 7,509 | 8/29/2020 | 2,513 |
| 2020 YTD ^r | 17,640 | 33,273 | 173,082 | 7,178 | 231,173 | 2020 YTD | 88,493 |
| 2019 YTD ^r | 34,240 | 41,458 | 183,963 | 13,248 | 272,909 | 2019 YTD | 87,658 |
| 2020 YTD as % of 2019 YTD | 52 | 80 | 94 | 54 | 85 | % change YTD | 101 |
| Last 4 weeks as % of 2019 ² | 146 | 130 | 127 | 69 | 127 | Last 4wks. % 2019 | 91 |
| Last 4 weeks as % of 4-year avg. ² | 128 | 105 | 108 | 75 | 108 | Last 4wks. % 4 yr. | 101 |
| 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 |

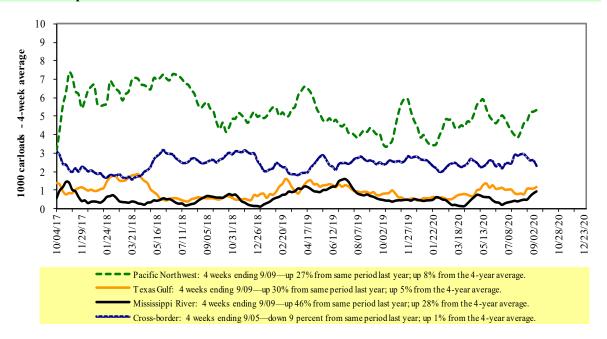
¹Data is incomplete as it is voluntarily provided.

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

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



Source: USDA, Agricultural Marketing Service.

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 | ast | | West | | U.S. total | Cai | nada |
|-----------------------------------|--------|---------|---------|--------|---------|------------|---------|---------|
| 9/5/2020 | CSXT | NS | BNSF | KCS | UP | U.S. total | CN | CP |
| This week | 1,589 | 2,330 | 11,878 | 1,124 | 6,082 | 23,003 | 4,470 | 5,048 |
| This week last year | 1,369 | 1,903 | 8,931 | 1,148 | 4,022 | 17,373 | 2,681 | 3,881 |
| 2020 YTD | 58,913 | 86,564 | 386,816 | 37,548 | 184,030 | 753,871 | 148,048 | 164,741 |
| 2019 YTD | 65,466 | 100,606 | 397,705 | 40,442 | 183,999 | 788,218 | 147,237 | 158,086 |
| 2020 YTD as % of 2019 YTD | 90 | 86 | 97 | 93 | 100 | 96 | 101 | 104 |
| Last 4 weeks as % of 2019* | 118 | 110 | 106 | 103 | 127 | 112 | 145 | 112 |
| Last 4 weeks as % of 3-yr. avg.** | 119 | 103 | 107 | 130 | 117 | 111 | 118 | 105 |
| Total 2019 | 91,611 | 136,798 | 568,369 | 58,527 | 260,269 | 1,115,574 | 212,499 | 235,892 |

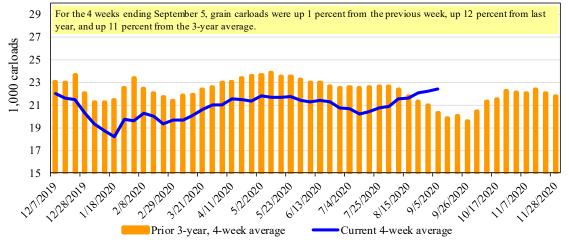
^{*}The past 4 weeks of this year as a percent of the same 4 weeks last year.

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: | | <u>Delivery period</u> | | | | | | | | |
|-------------------|---|----------------------|------------------------|----------------------|--------------------|----------------------|--------------------|------------|------------|--|--|
| | 9/10/2020 | Sep-20 | Sep-19 | Oct-20 | Oct-19 | Nov-20 | Nov-19 | Dec-20 | Dec-19 | | |
| BNSF ³ | COT grain units COT grain single-car | no offer no offer | no offer no offer | no offer no offer | 0 0 | 138 378 | 0 0 | 23 252 | no bid | | |
| UP ⁴ | GCAS/Region 1 GCAS/Region 2 | no offer no offer | no offer no offer | no offer no offer | no offer no bid | no offer no offer | no offer no bid | 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.

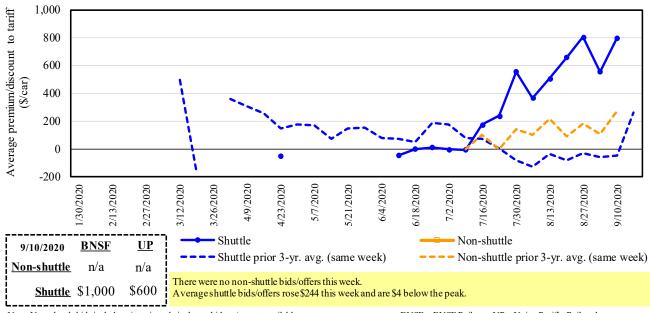
²Average premium/discount to tariff, last auction. n/a = not available.

³BNSF - COT = 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.

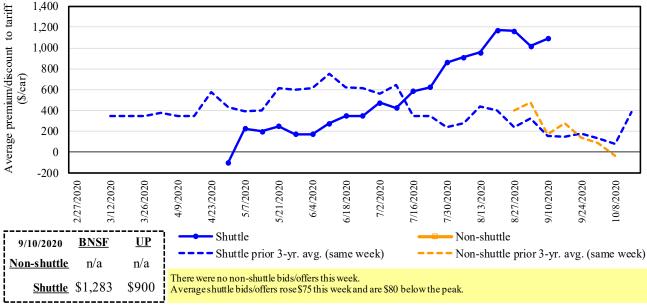
The **secondary rail market** information reflects trade values for service that was originally purchased from the railroad carrier as some form of guaranteed freight. The **auction and secondary rail** values are indicators of rail service quality and demand/ supply.

Figure 4
Bids/offers for railcars to be delivered in September 2020, secondary market



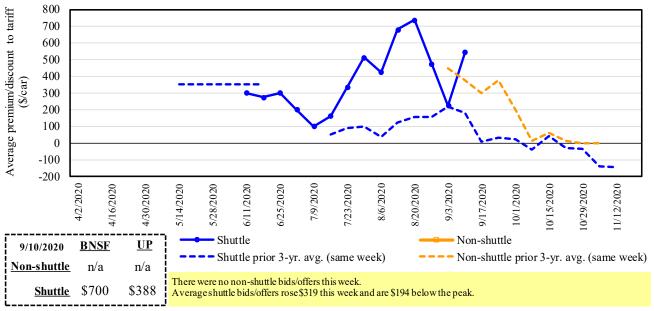
Note: Non-shuttle bids include unit-train and single-car bids. n/a = not available; avg. = average; yr. = year; BNSF = BNSF Railway; UP = Union Pacific Railroad. Source: USDA, Agricultural Marketing Service.

Figure 5
Bids/offers for railcars to be delivered in October 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.

Figure 6
Bids/offers for railcars to be delivered in November 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: | | | De | livery period | | |
|----------|----------------------------|--------|--------|--------|---------------|--------|--------|
| | 9/10/2020 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 |
| | BNSF-GF | n/a | n/a | n/a | n/a | n/a | n/a |
| l e | 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 | 1000 | 1283 | 700 | n/a | n/a | n/a |
| | Change from last week | 400 | 266 | n/a | n/a | n/a | n/a |
| Shuttle | Change from same week 2019 | 1150 | n/a | n/a | n/a | n/a | n/a |
| Shu | UP-Pool | 600 | 900 | 388 | 150 | 50 | n/a |
| | Change from last week | 87 | (117) | 163 | 100 | 0 | n/a |
| | Change from same week 2019 | 838 | 1100 | n/a | n/a | n/a | n/a |

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

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

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

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. 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 |
|-------------------|---------------------------------|---------------------------------|----------|------------|-------------------|---------------------|----------------------------|
| ~ | 0.1.1 | D | Tariff | surcharge_ | Tariff plus surch | bushel ² | change Y/Y ⁴ |
| September 2020 | Origin region ³ | Destination region ³ | rate/car | per car | metric ton | busnei | Y/Y |
| <u>Unit train</u> | Wishias KC | Ct. Lawin MO | ¢2.002 | ¢2.5 | 620.00 | ¢1.00 | |
| Wheat | Wichita, KS | St. Louis, MO | \$3,983 | \$35 | \$39.90 | \$1.09 | -1 |
| | Grand Forks, ND | Duluth-Superior, MN | \$4,208 | \$0 | \$41.79 | \$1.14 | -3 |
| | Wichita, KS | Los Angeles, CA | \$7,115 | \$0 | \$70.66 | \$1.92 | -2 |
| | Wichita, KS | New Orleans, LA | \$4,525 | \$62 | \$45.55 | \$1.24 | -2 |
| | Sioux Falls, SD | Galveston-Houston, TX | \$6,851 | \$0 | \$68.03 | \$1.85 | -2 |
| | Colby, KS | Galveston-Houston, TX | \$4,801 | \$68 | \$48.35 | \$1.32 | -2 |
| | Amarillo, TX | Los Angeles, CA | \$5,121 | \$95 | \$51.80 | \$1.41 | -3 |
| Corn | Champaign-Urbana, IL | New Orleans, LA | \$3,900 | \$70 | \$39.43 | \$1.00 | -1 |
| | Toledo, OH | Raleigh, NC | \$6,816 | \$0 | \$67.69 | \$1.72 | 4 |
| | Des Moines, IA | Davenport, IA | \$2,415 | \$15 | \$24.13 | \$0.61 | 13 |
| | 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 | \$44 | \$38.17 | \$0.97 | 2 |
| | Des Moines, IA | Los Angeles, CA | \$5,680 | \$128 | \$57.67 | \$1.46 | -1 |
| Soybeans | Minneapolis, MN New Orleans, LA | | \$3,631 | \$37 | \$36.43 | \$0.99 | -4 |
| | 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 | \$70 | \$46.83 | \$1.27 | 0 |
| Shuttle train | | | | | | | |
| Wheat | Great Falls, MT | Portland, OR | \$4,018 | \$0 | \$39.90 | \$1.09 | -3 |
| | Wichita, KS | Galveston-Houston, TX | \$4,236 | \$0 | \$42.07 | \$1.14 | -3 |
| | Chicago, IL | Albany, NY | \$7,074 | \$0 | \$70.25 | \$1.91 | 20 |
| | Grand Forks, ND | Portland, OR | \$5,676 | \$0 | \$56.37 | \$1.53 | -2 |
| | Grand Forks, ND | Galveston-Houston, TX | \$5,996 | \$0 | \$59.54 | \$1.62 | -2 |
| | Colby, KS | Portland, OR | \$6,012 | \$112 | \$60.81 | \$1.66 | -3 |
| 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 | \$70 | \$38.63 | \$0.98 | -1 |
| | Lincoln, NE | Galveston-Houston, TX | \$3,880 | \$0 | \$38.53 | \$0.98 | 0 |
| | Des Moines, IA | Amarillo, TX | \$4,220 | \$55 | \$42.45 | \$1.08 | 2 |
| | 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 | \$81 | \$49.22 | \$1.34 | -1 |
| | Toledo, OH | Huntsville, AL | \$4,805 | \$0 | \$47.72 | \$1.30 | 4 |
| | Grand Island, NE | Portland, OR | \$5,260 | \$115 | \$53.37 | \$1.45 | -11 |

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

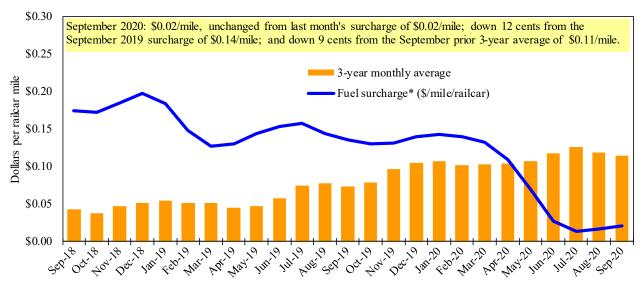
| | : Septembe | er 2020 | | Fuel | Tari | ff rate plus | Percent |
|-----------|------------|----------------------|----------------------|----------------------|-------------------------|----------------------|---------------------|
| | Origin | | Tariff rate | surcharge | fuel surc | harge per: | change ⁴ |
| Commodity | state | Destination region | per car ¹ | per car ² | metric ton ³ | bus hel ³ | Y/Y |
| Wheat | MT | Chihuahua, CI | \$7,384 | \$0 | \$75.45 | \$2.05 | -2 |
| | OK | Cuautitlan, EM | \$6,713 | \$49 | \$69.08 | \$1.88 | -2 |
| | KS | Guadalajara, JA | \$7,471 | \$474 | \$81.18 | \$2.21 | -2 |
| | TX | Salinas Victoria, NL | \$4,329 | \$29 | \$44.53 | \$1.21 | -1 |
| Corn | IA | Guadalajara, JA | \$8,902 | \$376 | \$94.80 | \$2.41 | -1 |
| | SD | Celaya, GJ | \$8,140 | \$0 | \$83.17 | \$2.11 | 0 |
| | NE | Queretaro, QA | \$8,278 | \$99 | \$85.60 | \$2.17 | -1 |
| | SD | Salinas Victoria, NL | \$6,905 | \$0 | \$70.55 | \$1.79 | 0 |
| | MO | Tlalnepantla, EM | \$7,643 | \$97 | \$79.08 | \$2.01 | -1 |
| | SD | Torreon, CU | \$7,690 | \$0 | \$78.57 | \$1.99 | 0 |
| Soybeans | MO | Bojay (Tula), HG | \$8,522 | \$354 | \$90.68 | \$2.47 | -1 |
| | NE | Guadalajara, JA | \$9,132 | \$362 | \$97.00 | \$2.64 | -1 |
| | IA | El Castillo, JA | \$9,410 | \$0 | \$96.15 | \$2.61 | 0 |
| | KS | Torreon, CU | \$7,989 | \$238 | \$84.05 | \$2.29 | 0 |
| Sorghum | NE | Celaya, GJ | \$7,772 | \$323 | \$82.71 | \$2.10 | -2 |
| | KS | Queretaro, QA | \$8,108 | \$61 | \$83.46 | \$2.12 | 0 |
| | NE | Salinas Victoria, NL | \$6,713 | \$49 | \$69.09 | \$1.75 | 0 |
| | NE | Torreon, CU | \$7,092 | \$210 | \$74.61 | \$1.89 | -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



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.

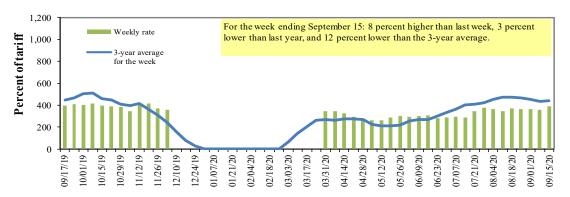
⁴Percentage change calculated using tariff rate plus fuel surchage; Y/Y = year over year.

^{*} 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 8a Mid-Mississippi 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.

Table 9

Weekly barge freight rates: Southbound only Lower Twin Mid-Illinois Lower Cairo-Mississippi Cities River St. Louis Cincinnati Ohio Memphis Rate¹ 9/15/2020 431 388 290 385 385 294 9/8/2020 418 358 264 313 313 255 9/15/2020 \$/ton 26.68 20.64 11.57 18.06 15.55 9.23 9/8/2020 25.87 19.05 10.53 14.68 12.65 8.01 Current week % change from the same week: Last year -18 -26 16 -3 6 6 3-year avg. ² -5 -12 -18 -5 -5 -15 515 487 478 478 357 Rate1 September 366 November 0 0 385 318 318 250 275

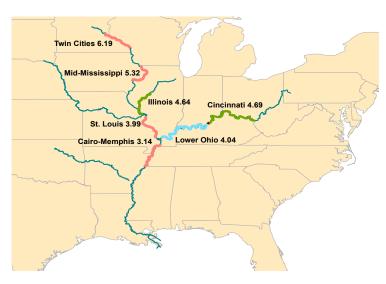
Figure 9 Benchmark tariff rates

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.

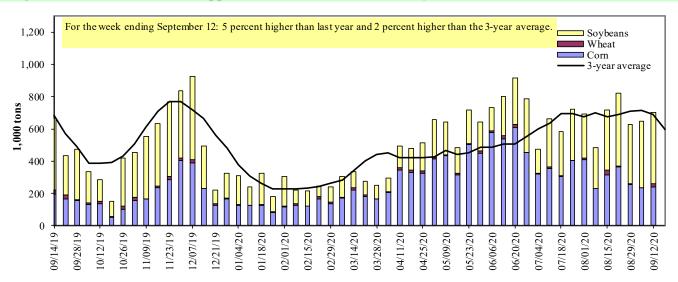
Map Credit: USDA, Agricultural Marketing Service



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 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)**

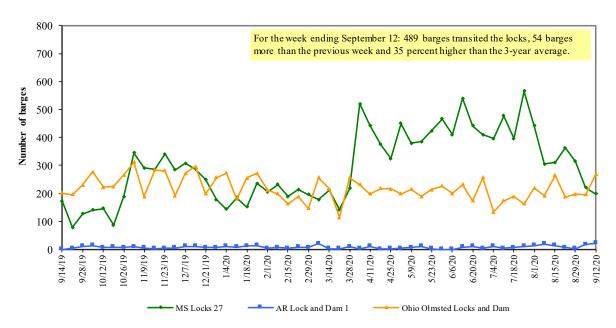
| For the week ending 09/12/2020 | Corn | Wheat | Soybe ans | Other | Total |
|--|--------|-------|-----------|-------|--------|
| Mississippi River | | | | | _ |
| Rock Island, IL (L15) | 132 | 2 | 200 | 0 | 333 |
| Winfield, MO (L25) | 177 | 21 | 378 | 0 | 575 |
| Alton, IL (L26) | 202 | 21 | 401 | 0 | 624 |
| Granite City, IL (L27) | 238 | 22 | 442 | 0 | 702 |
| Illinois River (La Grange) | 0 | 0 | 0 | 0 | 0 |
| Ohio River (Olmsted) | 11 | 2 | 45 | 0 | 57 |
| Arkansas River (L1) | 0 | 28 | 17 | 0 | 45 |
| Weekly total - 2020 | 248 | 52 | 503 | 0 | 804 |
| Weekly total - 2019 | 211 | 36 | 482 | 7 | 736 |
| 2020 YTD ¹ | 13,278 | 1,451 | 10,384 | 116 | 25,228 |
| 2019 YTD ¹ | 8,962 | 1,247 | 8,682 | 129 | 19,019 |
| 2020 as % of 2019 YTD | 148 | 116 | 120 | 90 | 133 |
| Last 4 weeks as % of 2019 ² | 140 | 131 | 112 | 42 | 121 |
| 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.

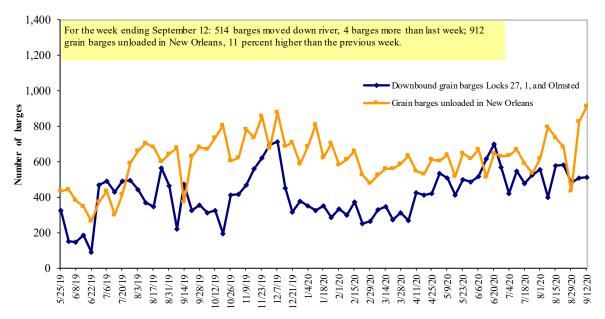
Figure 11
Upbound empty barges transiting Mississippi River Locks 27, Arkansas River Lock and Dam 1, and Ohio River Olmsted Locks and Dam



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.

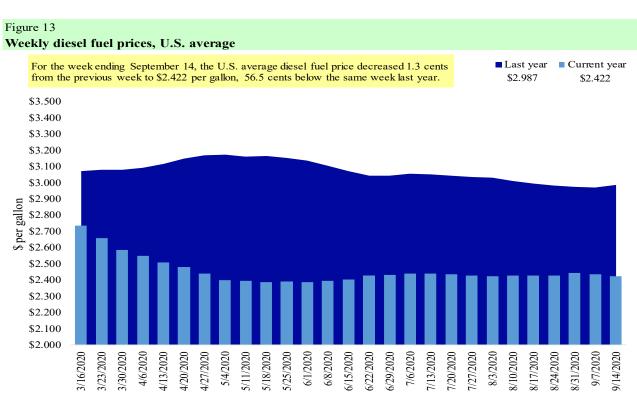
Table 11

Retail on-highway diesel prices, week ending 9/14/2020 (U.S. \$/gallon)

| | | | Change | e from |
|--------|----------------------------|-------|----------|----------|
| Region | Location | Price | Week ago | Year ago |
| I | East Coast | 2.499 | -0.012 | -0.499 |
| | New England | 2.605 | -0.007 | -0.408 |
| | Central Atlantic | 2.676 | -0.013 | -0.501 |
| | Lower Atlantic | 2.357 | -0.013 | -0.517 |
| II | Midwest | 2.308 | -0.013 | -0.574 |
| III | Gulf Coast | 2.172 | -0.012 | -0.589 |
| IV | Rocky Mountain | 2.368 | -0.010 | -0.591 |
| V | West Coast | 2.955 | -0.009 | -0.619 |
| | West Coast less California | 2.575 | -0.009 | -0.586 |
| | California | 3.267 | -0.009 | -0.634 |
| Total | United States | 2.422 | -0.013 | -0.565 |

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)

| | ve empore. | , (1,000 1 | Whe | not . | | | Corn | Soybe ans | Total |
|--|------------|------------|-------|-------|-----|-----------|--------|-----------|---------|
| | | | VVIIC | at | | | Com | Soybeans | Total |
| For the week ending | HRW | SRW | HRS | SWW | DUR | All wheat | | | |
| Export balances ¹ | | | | | | | | | |
| 9/3/2020 | 1,856 | 518 | 1,832 | 1,226 | 257 | 5,688 | 18,601 | 29,360 | 53,649 |
| This week year ago | 1,425 | 681 | 1,717 | 1,018 | 303 | 5,143 | 6,778 | 9,033 | 20,954 |
| Cumulative exports-marketing year ² | | | | | | | | | |
| 2020/21 YTD | 3,001 | 568 | 1,974 | 1,486 | 232 | 7,260 | 246 | 526 | 8,032 |
| 2019/20 YTD | 3,069 | 837 | 1,642 | 1,129 | 186 | 6,863 | 412 | 420 | 7,695 |
| YTD 2019/20 as % of 2018/19 | 98 | 68 | 120 | 132 | 124 | 106 | 60 | 125 | 104 |
| Last 4 wks. as % of same period 2018/19* | 127 | 91 | 110 | 119 | 86 | 113 | 96 | 118 | 110 |
| Total 2019/20 | 9,526 | 2,318 | 6,960 | 4,751 | 922 | 24,477 | 42,622 | 43,994 | 111,094 |
| Total 2018/19 | 8,591 | 3,204 | 6,776 | 5,164 | 479 | 24,214 | 48,924 | 46,189 | 119,327 |

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 09/03/2020 | Total commi | tments ² | % change | Exports ³ |
|-------------------------------------|-------------|---------------------|--------------|----------------------|
| | 2020/21 | 2019/20 | current MY | 3-yr. avg. |
| | current MY | last MY | from last MY | 2016-18 |
| | | - 1,000 mt - | | |
| Mexico | 3,516 | 3,619 | (3) | 14,659 |
| Japan | 1,867 | 944 | 98 | 11,955 |
| Korea | 68 | 70 | (2) | 4,977 |
| Colombia | 509 | 196 | 159 | 4,692 |
| Peru | 132 | 0 | - | 2,808 |
| Top 5 importers | 6,092 | 4,829 | 26 | 39,091 |
| Total U.S. corn export sales | 18,847 | 7,190 | 162 | 54,024 |
| % of projected exports | 32% | 16% | | |
| Change from prior week ² | 1,823 | 499 | | |
| Top 5 importers' share of U.S. corn | | | | |
| export sales | 32% | 67% | | 72% |
| USDA forecast September 2020 | 59,160 | 44,911 | 32 | |
| Corn use for ethanol USDA forecast, | | | | |
| September 2020 | 129,540 | 123,317 | 5 | |

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 importers**¹ of U.S. soybeans

| For the week ending 9/03/2020 | Total | commitments ² | % change | Exports ³ |
|-------------------------------------|------------|--------------------------|--------------|----------------------|
| | 2020/21 | 2019/20 | current MY | 3-yr. avg. |
| | current MY | last MY | from last MY | 2017-19 |
| | | 1,000 mt - | | - 1,000 mt - |
| China | 15,875 | 1,070 | 1383 | 25,733 |
| Mexico | 1,629 | 1,896 | (14) | 4,271 |
| Indonesia | 376 | 205 | 84 | 2,386 |
| Japan | 476 | 460 | 4 | 2,243 |
| Egypt | 427 | 342 | 25 | 1,983 |
| Top 5 importers | 18,783 | 3,972 | 373 | 36,616 |
| Total U.S. soybean export sales | 29,886 | 9,453 | 216 | 53,746 |
| % of projected exports | 52% | 21% | | |
| change from prior week ² | 3,162 | 1,116 | | |
| Top 5 importers' share of U.S. | | | | |
| soybean export sales | 63% | 42% | | 68% |
| USDA forecast, September 2020 | 57,902 | 45,777 | 126 | |

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

Source: USDA, Foreign Agricultural Service.

Table 15

Top 10 importers¹ of all U.S. wheat

| For the week ending 9/03/2020 | Totacon | nmitments ² | % change | Exports ³ 3-yr. avg. |
|--------------------------------------|------------|------------------------|--------------|---------------------------------|
| | 2020/21 | 2019/20 | current MY | |
| | current MY | last MY | from last MY | 2017-19 |
| | | 1,000 mt - | | - 1,000 mt - |
| Mexico | 1,328 | 1,703 | (22) | 3,213 |
| Philippines | 1,889 | 1,447 | 31 | 2,888 |
| Japan | 1,237 | 1,155 | 7 | 2,655 |
| Nigeria | 609 | 765 | (20) | 1,433 |
| Korea | 680 | 704 | (3) | 1,372 |
| Indonesia | 459 | 370 | 24 | 1,195 |
| Taiwan | 581 | 557 | 4 | 1,175 |
| Thailand | 301 | 375 | (20) | 727 |
| Italy | 402 | 382 | 5 | 622 |
| Colombia | 176 | 349 | (50) | 618 |
| Top 10 importers | 7,661 | 7,806 | (2) | 15,897 |
| Total U.S. wheat export sales | 12,948 | 12,006 | 8 | 23,821 |
| % of projected exports | 49% | 46% | | |
| change from prior week ² | 484 | 611 | | |
| Top 10 importers' share of U.S. | _ | | | |
| wheat export sales | 59% | 65% | | 67% |
| USDA forecast, September 2020 | 26,567 | 26,294 | 1 | · |

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

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 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.

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

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.

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

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

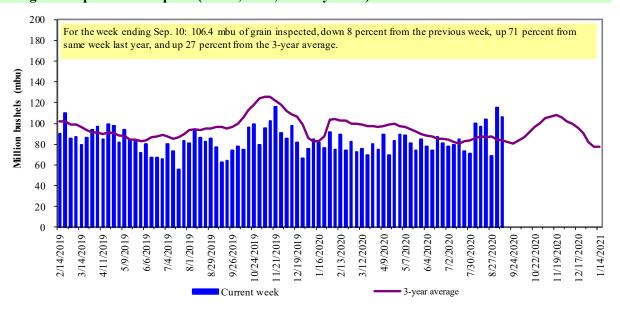
| | For the week ending | Previous | Current week | | | 2020 YTD as | Last 4-we | eeks as % of: | |
|-----------------------|---------------------|--------------|------------------|-----------|-----------|---------------|-----------|------------------|-------------|
| Port regions | 09/10/20 | week* | as % of previous | 2020 YTD* | 2019 YTD* | % of 2019 YTD | Last year | Prior 3-yr. avg. | 2019 total* |
| Pacific Northwest | | | | | | | | | |
| Wheat | 347 | 471 | 74 | 11,612 | 9,648 | 120 | 148 | 134 | 13,961 |
| Corn | 203 | 194 | 105 | 7,652 | 6,859 | 112 | n/a | 166 | 7,047 |
| Soybeans | 296 | 281 | 105 | 3,801 | 7,400 | 51 | 95 | 129 | 11,969 |
| Total | 845 | 946 | 89 | 23,066 | 23,906 | 96 | 160 | 139 | 32,977 |
| Mississippi Gulf | | , . . | • | ,000 | 20,000 | , , | 100 | 10/ | <i>,</i> , |
| Wheat | 100 | 126 | 79 | 2,766 | 3,653 | 76 | 90 | 113 | 4,448 |
| Corn | 482 | 483 | 100 | 20,482 | 16,422 | 125 | 118 | 81 | 20,763 |
| Soybeans | 833 | 1,000 | 83 | 16,904 | 17,997 | 94 | 129 | 133 | 31,398 |
| Total | 1,416 | 1,609 | 88 | 40,152 | 38,072 | 105 | 122 | 110 | 56,609 |
| Texas Gulf | 1,110 | 1,007 | 00 | 10,132 | 20,072 | 100 | 122 | 110 | 50,007 |
| Wheat | 122 | 67 | 182 | 3,179 | 5,025 | 63 | 84 | 111 | 6,009 |
| Corn | 0 | 0 | n/a | 538 | 563 | 95 | 39 | 64 | 640 |
| Soybeans | 55 | 89 | 62 | 313 | 2 | n/a | n/a | n/a | 2 |
| Total | 177 | 156 | 114 | 4,030 | 5,590 | 72 | 135 | 186 | 6,650 |
| Interior | | | | , | - , | | | | ., |
| Wheat | 35 | 26 | 135 | 1,559 | 1,378 | 113 | 89 | 78 | 1,987 |
| Corn | 171 | 167 | 102 | 6,044 | 5,450 | 111 | 109 | 94 | 7,857 |
| Soybeans | 89 | 75 | 120 | 4,454 | 4,878 | 91 | 78 | 91 | 7,043 |
| Total | 294 | 268 | 110 | 12,057 | 11,706 | 103 | 94 | 91 | 16,887 |
| Great Lakes | | | | | | | | | |
| Wheat | 68 | 44 | 153 | 595 | 705 | 84 | 174 | 187 | 1,339 |
| Corn | 0 | 28 | 0 | 54 | 0 | n/a | n/a | 281 | 11 |
| Soybeans | 23 | 20 | 113 | 283 | 445 | 64 | 252 | 114 | 493 |
| Total | 91 | 93 | 98 | 932 | 1,150 | 81 | 218 | 154 | 1,844 |
| Atlantic | | | | | | | | | |
| Wheat | 0 | 1 | 0 | 26 | 35 | 73 | 249 | 327 | 37 |
| Corn | 7 | 0 | n/a | 15 | 94 | 16 | 259 | 148 | 99 |
| Soybeans | 3 | 5 | 51 | 497 | 986 | 50 | 19 | 39 | 1,353 |
| Total | 10 | 6 | 150 | 538 | 1,116 | 48 | 29 | 56 | 1,489 |
| U.S. total from ports | * | | | | | | | | |
| Wheat | 671 | 736 | 91 | 19,738 | 20,445 | 97 | 122 | 125 | 27,781 |
| Corn | 863 | 872 | 99 | 34,785 | 29,388 | 118 | 151 | 97 | 36,417 |
| Soybeans | 1,299 | 1,469 | 88 | 26,252 | 31,708 | 83 | 119 | 133 | 52,258 |
| Total | 2,833 | 3,078 | 92 | 80,775 | 81,540 | 99 | 128 | 118 | 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.

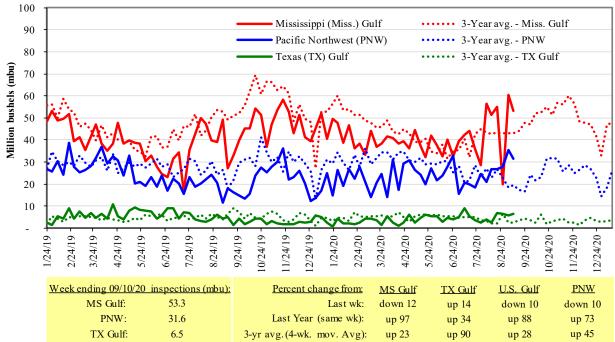
Figure 14
U.S. grain inspected for export (wheat, corn, and soybeans)



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

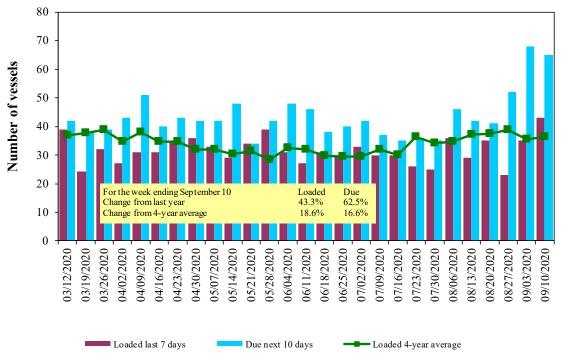
Table 17

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

| | | | | Pacific |
|--------------|---------|--------|----------|-----------|
| | | Gulf | | Northwest |
| | | Loaded | Due next | |
| Date | In port | 7-days | 10-days | In port |
| 9/10/2020 | 35 | 43 | 65 | 13 |
| 9/3/2020 | 32 | 35 | 68 | 13 |
| 2019 range | (2661) | (1844) | (3369) | (833) |
| 2019 average | 40 | 31 | 49 | 17 |

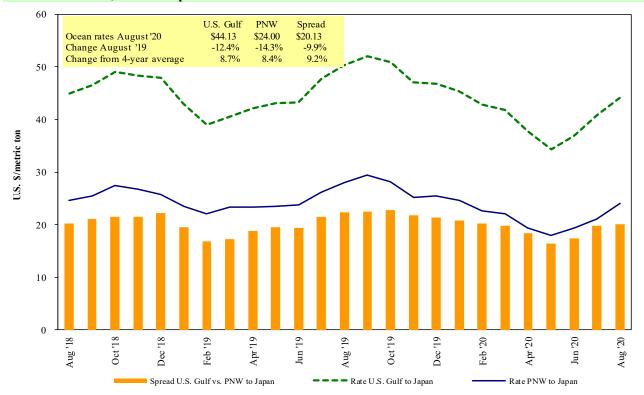
Source: USDA, Agricultural Marketing Service.

Figure 16
U.S. Gulf⁴ 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 09/12/2020

| Export | Import | Grain | Loading | Volume loads | Freight rate |
|-----------|------------|-------------|-----------|---------------|-------------------|
| region | region | types | date | (metric tons) | (US\$/metric ton) |
| U.S. Gulf | China | Heavy grain | Aug 18/24 | 66,000 | 39.50 |
| U.S. Gulf | Djibouti | Wheat | Oct 16/26 | 12,180 | 94.48* |
| U.S. Gulf | Djibouti | Wheat | Sep 18/28 | 15,810 | 54.86* |
| U.S. Gulf | Mozambique | Sorghum | Aug 10/20 | 30,780 | 41.35 |
| U.S. Gulf | Pt Sudan | Sorghum | Jun 5/15 | 33,370 | 99.50 |
| PNW | China | Soybeans | Sep 1/30 | 63,000 | 22.10 op 22.60 |
| PNW | Yemen | Wheat | Aug 4/14 | 15,000 | 42.95* |
| Vancouver | Japan | Wheat | Sep 15/30 | 20,000 | 24.30 |
| Vancouver | Japan | Canola | Sep 15/30 | 30,000 | 24.30 |
| Brazil | Japan | Corn | Sep 11/20 | 49,000 | 34.75 |
| Brazil | Japan | Corn | Sep 1/10 | 60,000 | 34.00 |

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

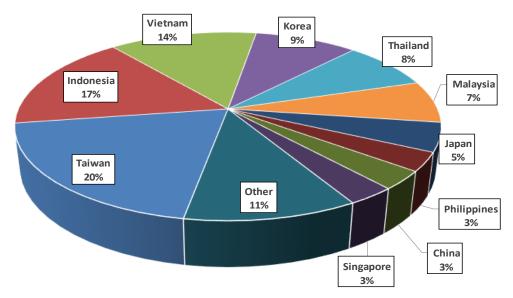
Note: Rates shown are per metric ton (2,204.62 lbs. = 1 metric ton), free on board (F.O.B), except where otherwise indicated; op = option.

Source: Maritime Research, Inc.

In 2019, containers were used to transport 9 percent of total U.S. waterborne grain exports. Approximately 60 percent of U.S. waterborne grain exports in 2019 went to Asia, of which 14 percent were moved in containers. Approximately 94 percent of U.S. waterborne containerized grain exports were destined for Asia.

Figure 18

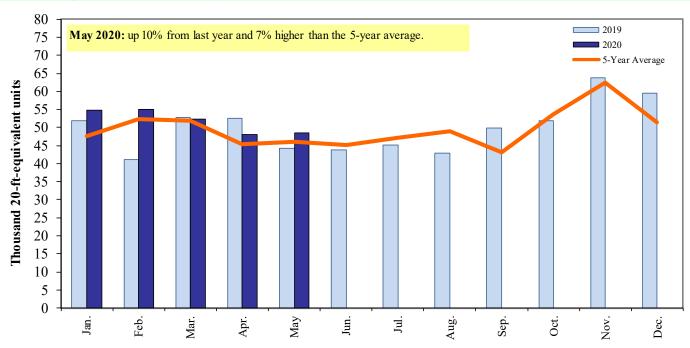
Top 10 destination markets for U.S. containerized grain exports, Jan-May 2020



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, 120810, and 120190.

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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