



# Grain Transportation Report

A weekly publication of the Agricultural Marketing Service  
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## WEEKLY HIGHLIGHTS

July 29, 2021

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#### STB Asks Class I Railroads To Provide Information on Container Congestion

On July 22, the Surface Transportation Board (STB) [asked Class I railroads](#) to provide information on congestion at key container terminals. STB also requested the railroads' policies and practices for assessing storage charges. These requests come in response to concerns over persistent intermodal congestion and significant container storage fees some shippers must pay to receive their containers. STB hopes to better understand the magnitude of container congestion, the purpose and effect of storage fees, and whether there is relief for receivers who cannot facilitate the release of their containers. Tracking just one of several affected grain commodities, the [Soybean Transportation Coalition expects](#) "supply chain issues for exporters to continue for the foreseeable future, including the container squeeze and rail availability, as well as the nationwide shortage of truck drivers." Soybeans are the largest U.S. [containerized grain export](#), representing more than 40 percent of the market on average.

#### Minnesota Approves Over \$800 Million for Road Projects

Minnesota State lawmakers recently approved a transportation budget bill to provide [over \\$800 million for State roads and bridges](#). As part of the budget, the State's trunk highway system will receive \$413 million in trunk highway bonds, including \$200 million for the Corridors of Commerce program, \$100 million for general State road construction, and \$113 million for State road construction projects under the Minnesota Department of Transportation's Regional and Community Investment planning category. As a major producer of corn and soybeans, Minnesota depends on the condition and performance of its roads for grain transportation. As of 2019, 4.7 percent (13,346) of bridges in Minnesota were structurally deficient, and in 2018, 16 percent of roads in the State were in poor condition—[according to the American Society of Civil Engineers](#). The new funding is expected to boost highway capacity and improve freight movement statewide, which can benefit grain transportation.

#### Panama Canal Makes Way for Larger Vessels

As of May 21, the [maximum allowable length for vessels transiting the Panama Canal's Neopanamax Locks](#) has increased from 367.28 meters (1,205 feet) to 370.33 meters (1,215 feet). With this increase, 96.8 percent of the world's container fleet can now transit the Canal, thereby shortening routes and benefiting economies around the world. The Panama Canal Authority also increased the maximum allowable draft to 15.24 meters (50 feet). By offering larger capacity along with shorter travel distances, the Canal reduces vessels' fuel consumption and emissions and helps reduce global greenhouse gases. The changes in allowable vessel length and draft were made in anticipation of the fifth anniversary of the Canal's expansion, on June 26. The Panama Canal is an important outlet for containerized grain shipped from the U.S. East and Gulf Coasts destined for China and other Asian countries.

### Snapshots by Sector

#### Export Sales

For the week ending July 15, [unshipped balances](#) of wheat, corn, and soybeans totaled 17.4 million metric tons (mmt). This was 6 percent lower than last week and 13 percent lower than the same time last year. Net [corn export sales](#) were -0.089 mmt, significantly lower than the past week. Net [soybean export sales](#) were 0.062 mmt, significantly higher from the previous week. Net weekly [wheat export sales](#) were 0.473 mmt, up 11 percent from last week.

#### Rail

U.S. Class I railroads originated 20,964 [grain carloads](#) during the week ending July 17. This was a 22-percent increase from the previous week, 6 percent fewer than last year, and 10 percent fewer than the 3-year average.

Average August shuttle [secondary railcar](#) bids/offers (per car) were \$117 below tariff for the week ending July 22. This was \$108 more than last week and \$389 lower than this week last year. There were no non-shuttle bids/offers this week.

#### Barge

For the week ending July 24, [barged grain movements](#) totaled 511,872 tons. This was 32 percent less than the previous week and 31 percent less than the same period last year.

For the week ending July 24, 322 grain barges [moved down river](#)—177 fewer barges than the previous week. There were 701 grain barges [unloaded in New Orleans](#), 30 percent more than the previous week.

#### Ocean

For the week ending July 22, 26 [oceangoing grain vessels](#) were loaded in the Gulf—unchanged from the same period last year. Within the next 10 days (starting July 23), 49 vessels were expected to be loaded—36 percent more than the same period last year.

As of July 22, the rate for shipping a metric ton (mt) of grain from the U.S. Gulf to Japan was \$81.00. This was 4 percent less than the previous week. The rate from the Pacific Northwest to Japan was \$44.00 per mt, 2 percent less than the previous week.

#### Fuel

For the week ending July 26, the U.S. average [diesel fuel price](#) decreased .2 cents from the previous week to \$3.342 per gallon, 91.5 cents above the same week last year. This is the first time in 13 weeks that the national average diesel price has decreased.

# Feature Article/Calendar

## AgTransport 3.0: USDA Upgraded Its Agricultural Transportation Open Data Platform

On July 13, the Transportation Services Division of USDA's Agricultural Marketing Service launched an upgraded version—"AgTransport 3.0"—of its [Agricultural Transportation Open Data Platform](#). This free tool was first introduced in June 2019 and assists USDA customers in making data-driven decisions about transporting agricultural goods domestically and internationally.

The platform's interactive format allows customers to view, access, and download data related to several transportation reports, including the weekly *Grain Transportation Report*. It is an alternative to static Adobe PDF files and Excel versions of USDA data on transporting agricultural products by rail, truck, barge, and ocean.

This article provides a brief description of the platform's functionalities, as well as new upgrades and features added to the platform.

The upgrades to the platform include:

- New grain transportation cost indicators and a global competitiveness dashboard with data on Brazil, Mexico, and Japan;
- An interactive report and datasets added on *The Importance of Highways to U.S. Agriculture*;
- A new agricultural rail service metrics dashboard;
- An upgraded port profile dashboard with additional, more granular data;
- An upgraded barge dashboard and additional data on rivers and locks;
- A web version of the new 2021 *Agricultural Transportation Research Compendium*;
- New bulk and container fleet data;
- A new biofuels dashboard, including new biodiesel datasets; and
- A new grain truck indicators dashboard.

With only a few easy clicks, the platform gives greater functionality with the ability to:

- View interactive dashboards on agricultural transportation modes and markets, updated weekly;
- Access data in eight different formats, accommodating users' unique needs;
- Effortlessly access application programming interface (API)-enabled data, for developing mobile and web apps and interacting programmatically with the data;
- Easily filter and aggregate data before downloading;
- With little effort, create visualizations and maps from datasets; and
- Save personalized dataset views and visualizations—these are automatically updated to show the latest insights, and they are easily embedded into other websites and applications.

The port profiles and rail service dashboards also take advantage of the new "global filter" feature. This feature allows all the dashboard's charts to be filtered simultaneously to show the same slice of the data, such as a particular port or a particular railroad.

USDA's transportation data reports inform the businesses of 30,000 subscribers, including farmers, commodity analysts, elevator operators, shippers, and other stakeholders. AgTransport 3.0—with its improved customer experience—will further enhance customers' relationship with the data.

USDA will continue to look for ways to expand and improve the offerings on AgTransport 3.0 to ensure that its data are accessible—easily conceptualized and acted on. The platform aims to help USDA customers optimize decision making to deliver farm and food products efficiently and economically. If you have any thoughts or suggestions, we welcome your feedback. Please write to us at the link below. [AgTransport@usda.gov](mailto:AgTransport@usda.gov)

# Grain Transportation Indicators

Table 1

## Grain transport cost indicators<sup>1</sup>

For the week ending	Truck	Rail		Barge	Ocean	
		Non-Shuttle	Shuttle		Gulf	Pacific
07/28/21	224	292	218	156	362	312
07/21/21	224	292	217	153	376	319

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

Source: USDA, Agricultural Marketing Service.

Table 2

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

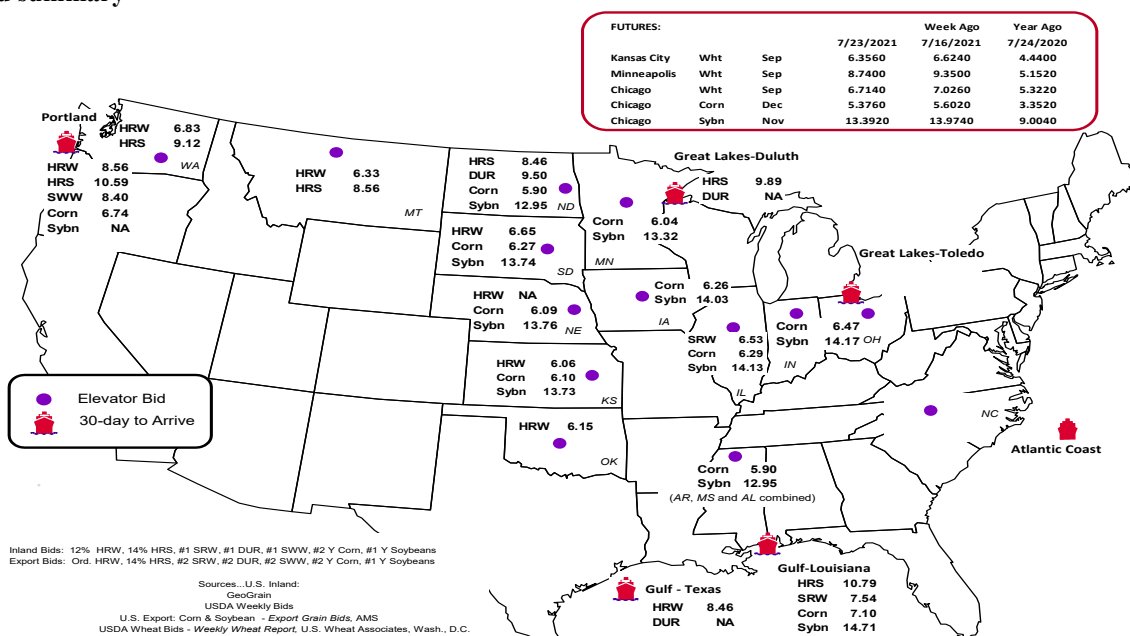
Commodity	Origin-destination	7/23/2021	7/16/2021
Corn	IL-Gulf	-0.81	-0.62
Corn	NE-Gulf	-1.01	-0.71
Soybean	IA-Gulf	-0.68	-0.63
HRW	KS-Gulf	-2.40	-2.51
HRS	ND-Portland	-2.13	-2.01

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

Source: USDA, Agricultural Marketing Service.

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

Figure 1  
Grain bid summary



# Rail Transportation

Table 3

## Rail deliveries to port (carloads)<sup>1</sup>

For the week ending	Mississippi		Pacific	Atlantic &	Total	Week ending	Cross-border Mexico <sup>3</sup>
	Gulf	Texas Gulf	Northwest	East Gulf			
7/21/2021 <sup>P</sup>	5	865	4,012	0	4,882	7/17/2021	2,360
7/14/2021 <sup>r</sup>	22	1,218	3,405	0	4,645	7/10/2021	2,812
2021 YTD <sup>r</sup>	35,105	41,848	175,138	9,887	261,978	2021 YTD	79,738
2020 YTD <sup>r</sup>	11,982	25,351	133,222	5,615	176,170	2020 YTD	69,577
2021 YTD as % of 2020 YTD	293	165	131	176	149	% change YTD	115
Last 4 weeks as % of 2020 <sup>2</sup>	33	91	84	0	79	Last 4wks. % 2020	102
Last 4 weeks as % of 4-year avg. <sup>2</sup>	25	107	73	0	70	Last 4wks. % 4 yr.	96
Total 2020	45,294	64,116	299,882	24,458	433,750	Total 2020	126,407
Total 2019	40,974	51,167	251,181	16,192	359,514	Total 2019	127,622

<sup>1</sup>Data is incomplete as it is voluntarily provided.

<sup>2</sup>Compared with same 4-weeks in 2020 and prior 4-year average.

<sup>3</sup>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.

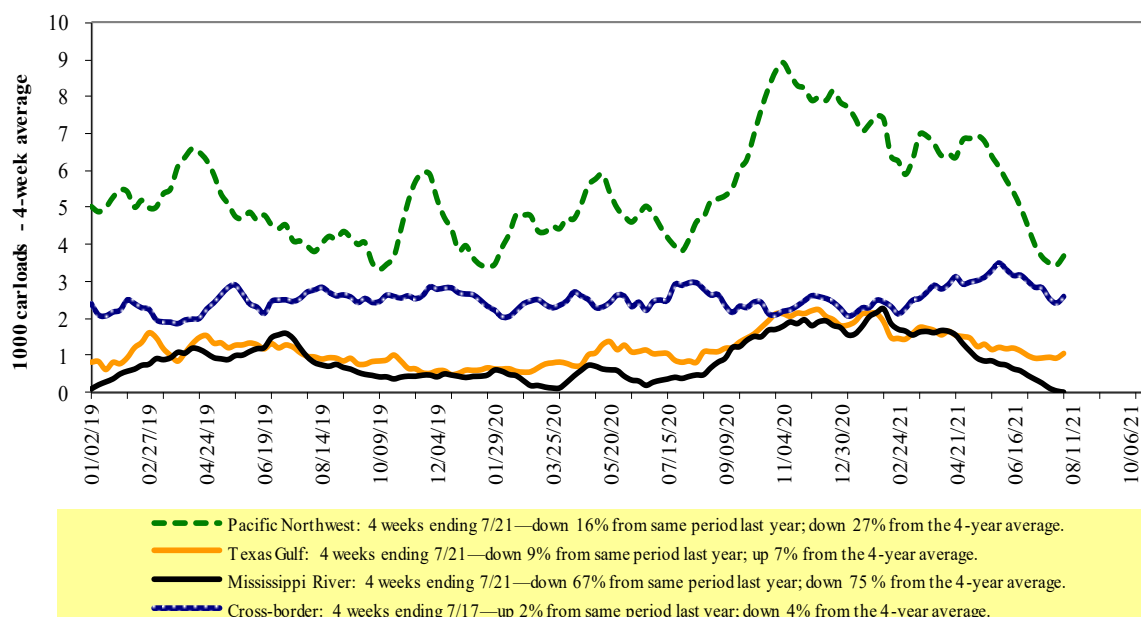
YTD = year-to-date; p = preliminary data; r = revised data; n/a = not available; wks. = weeks; avg. = average.

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.

Table 4

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

For the week ending: 7/17/2021	East		West			U.S. total	Canada	
	CSXT	NS	BNSF	KCS	UP		CN	CP
This week	1,294	2,361	10,489	1,051	5,769	20,964	2,376	3,841
This week last year	1,497	2,576	11,427	1,052	5,796	22,348	4,445	5,311
2021 YTD	53,290	71,735	346,080	31,024	177,938	680,067	123,064	144,568
2020 YTD	47,419	68,071	309,319	30,018	144,830	599,657	115,930	129,991
2021 YTD as % of 2020 YTD	112	105	112	103	123	113	106	111
Last 4 weeks as % of 2020*	114	91	94	111	102	98	61	80
Last 4 weeks as % of 3-yr. avg.**	94	83	85	104	101	90	68	85
Total 2020	91,659	130,288	613,630	57,782	296,701	1,190,060	238,467	261,778

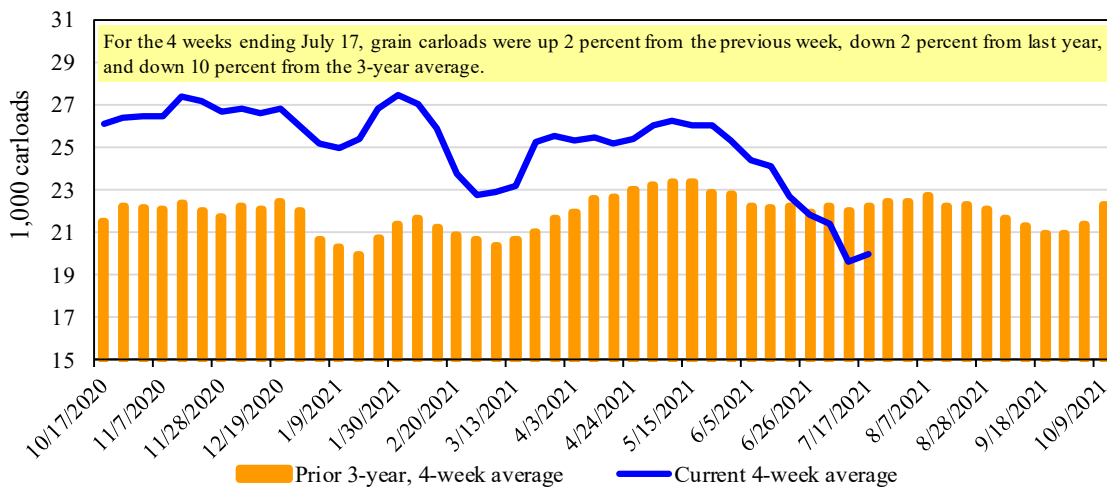
\*The past 4 weeks of this year as a percent of the same 4 weeks last year.

\*\*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.

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 offerings<sup>1</sup> (\$/car)<sup>2</sup>**

For the week ending: 7/22/2021		Delivery period							
		Aug-21	Aug-20	Sep-21	Sep-20	Oct-21	Oct-20	Nov-21	Nov-20
BNSF <sup>3</sup>	COT grain units	0	0	no bids	0	no bids	0	no bids	0
	COT grain single-car	0	0	0	20	0	10	0	5
UP <sup>4</sup>	GCAS/Region 1	no offer	no offer	no offer	no offer	no offer	no offer	n/a	n/a
	GCAS/Region 2	no offer	10	no offer	no bid	no offer	no offer	n/a	n/a

<sup>1</sup>Auction offerings are for single-car and unit train shipments only.

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

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

<sup>4</sup>UP - GCAS = Union Pacific Railroad Grain Car Allocation System.

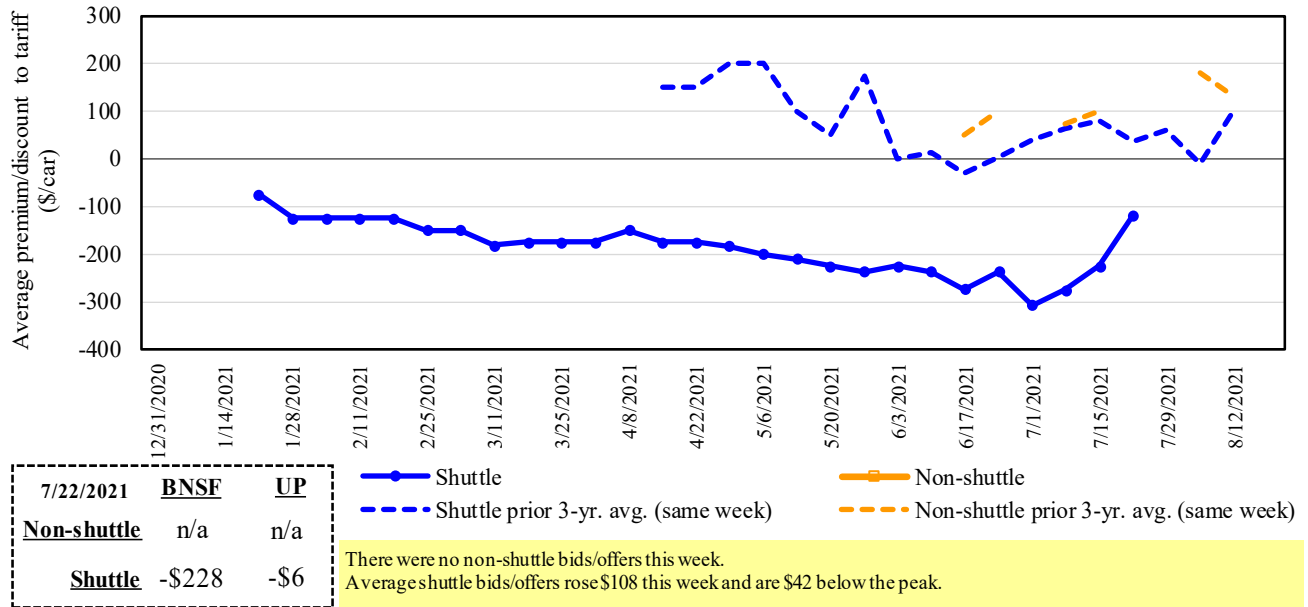
Region 1 includes: AR, IL, LA, MO, NM, OK, TX, WI, and Duluth, MN.

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

Source: USDA, Agricultural Marketing Service.

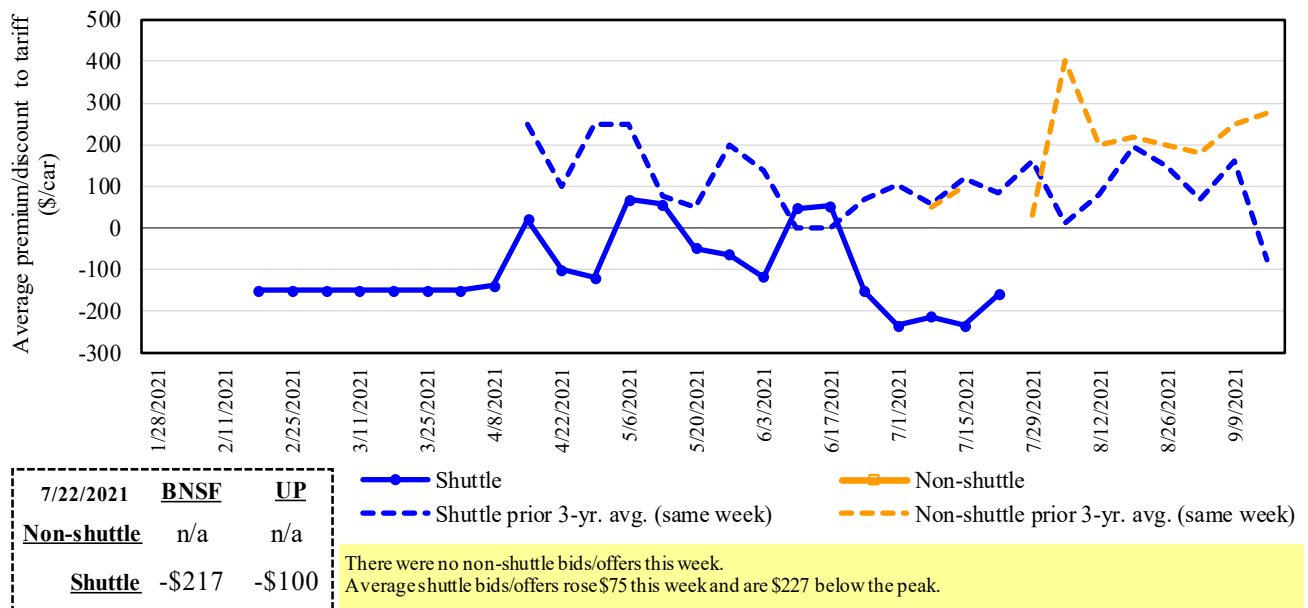
The **secondary rail market** information reflects trade values for service that was originally purchased from the railroad carrier as some form of guaranteed freight. The **auction and secondary rail** values are indicators of rail service quality and demand/supply.

**Figure 4**  
**Bids/offers for railcars to be delivered in August 2021, 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.

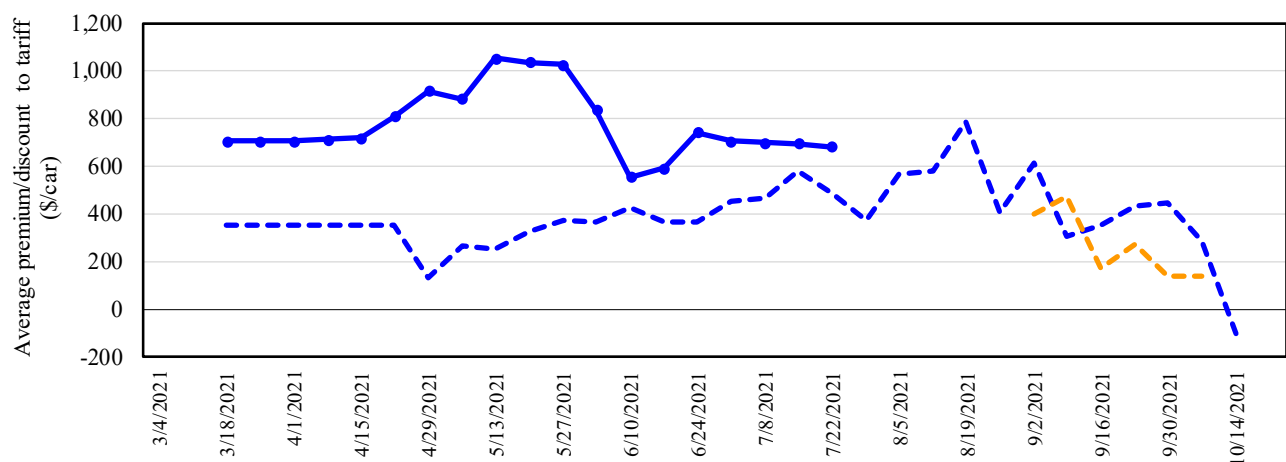
**Figure 5**  
**Bids/offers for railcars to be delivered in September 2021, secondary market**



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 October 2021, secondary market**



7/22/2021	<b>BNSF</b>	<b>UP</b>	Shuttle	Non-shuttle
<b>Non-shuttle</b>	n/a	n/a	Shuttle prior 3-yr. avg. (same week)	Non-shuttle prior 3-yr. avg. (same week)
<b>Shuttle</b>	\$700	\$661	There were no non-shuttle bids/offers this week. Average shuttle bids/offers fell \$16 this week and are \$374 below the peak.	

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

Table 6

**Weekly secondary railcar market (\$/car)<sup>1</sup>**

For the week ending: 7/22/2021		Delivery period					
		Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22
Non-shuttle	<b>BNSF-GF</b>	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 2020	n/a	n/a	n/a	n/a	n/a	n/a
	<b>UP-Pool</b>	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 2020	n/a	n/a	n/a	n/a	n/a	n/a
Shuttle	<b>BNSF-GF</b>	(228)	(217)	700	n/a	n/a	n/a
	Change from last week	60	50	6	n/a	n/a	n/a
	Change from same week 2020	(528)	(567)	0	n/a	n/a	n/a
	<b>UP-Pool</b>	(6)	(100)	661	n/a	n/a	n/a
	Change from last week	157	100	(39)	n/a	n/a	n/a
	Change from same week 2020	(250)	(225)	111	n/a	n/a	n/a

<sup>1</sup>Average 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;

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 shipments<sup>1</sup>**

July 2021	Origin region <sup>3</sup>	Destination region <sup>3</sup>	Tariff rate/car	Fuel surcharge per car	Tariff plus surcharge per:		Percent change Y/Y <sup>4</sup>
					metric ton	bushel <sup>2</sup>	
<b>Unit train</b>							
Wheat	Wichita, KS	St. Louis, MO	\$3,695	\$116	\$37.85	\$1.03	5
	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	\$205	\$46.97	\$1.28	3
	Sioux Falls, SD	Galveston-Houston, TX	\$6,851	\$0	\$68.03	\$1.85	-2
	Colby, KS	Galveston-Houston, TX	\$4,801	\$224	\$49.90	\$1.36	3
	Amarillo, TX	Los Angeles, CA	\$5,121	\$312	\$53.95	\$1.47	4
Corn	Champaign-Urbana, IL	New Orleans, LA	\$3,900	\$231	\$41.03	\$1.04	4
	Toledo, OH	Raleigh, NC	\$7,833	\$0	\$77.79	\$1.98	15
	Des Moines, IA	Davenport, IA	\$2,455	\$49	\$24.87	\$0.63	3
	Indianapolis, IN	Atlanta, GA	\$5,979	\$0	\$59.37	\$1.51	3
	Indianapolis, IN	Knoxville, TN	\$5,040	\$0	\$50.05	\$1.27	3
	Des Moines, IA	Little Rock, AR	\$3,900	\$144	\$40.16	\$1.02	5
	Des Moines, IA	Los Angeles, CA	\$5,780	\$419	\$61.56	\$1.56	7
Soybeans	Minneapolis, MN	New Orleans, LA	\$3,631	\$241	\$38.45	\$1.05	6
	Toledo, OH	Huntsville, AL	\$6,595	\$0	\$65.49	\$1.78	17
	Indianapolis, IN	Raleigh, NC	\$7,125	\$0	\$70.75	\$1.93	3
	Indianapolis, IN	Huntsville, AL	\$5,247	\$0	\$52.11	\$1.42	3
	Champaign-Urbana, IL	New Orleans, LA	\$4,645	\$231	\$48.42	\$1.32	4
<b>Shuttle train</b>							
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	\$6,376	\$0	\$63.32	\$1.72	-10
	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	\$368	\$63.35	\$1.72	4
	Corn	Minneapolis, MN	Portland, OR	\$5,180	\$0	\$51.44	\$1.31
Sioux Falls, SD		Tacoma, WA	\$5,140	\$0	\$51.04	\$1.30	0
Champaign-Urbana, IL		New Orleans, LA	\$3,820	\$231	\$40.23	\$1.02	4
Lincoln, NE		Galveston-Houston, TX	\$3,880	\$0	\$38.53	\$0.98	0
Des Moines, IA		Amarillo, TX	\$4,320	\$181	\$44.70	\$1.14	5
Minneapolis, MN		Tacoma, WA	\$5,180	\$0	\$51.44	\$1.31	0
Council Bluffs, IA		Stockton, CA	\$5,100	\$0	\$50.65	\$1.29	2
Soybeans	Sioux Falls, SD	Tacoma, WA	\$5,850	\$0	\$58.09	\$1.58	0
	Minneapolis, MN	Portland, OR	\$5,900	\$0	\$58.59	\$1.59	0
	Fargo, ND	Tacoma, WA	\$5,750	\$0	\$57.10	\$1.55	0
	Council Bluffs, IA	New Orleans, LA	\$4,875	\$267	\$51.06	\$1.39	4
	Toledo, OH	Huntsville, AL	\$4,945	\$0	\$49.11	\$1.34	3
	Grand Island, NE	Portland, OR	\$5,260	\$377	\$55.97	\$1.52	5

<sup>1</sup>A 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.

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

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

<sup>4</sup>Percentage 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: July 2021			Tariff rate per car <sup>1</sup>	Fuel surcharge per car <sup>2</sup>	Tariff rate plus fuel surcharge per:		Percent change <sup>4</sup> Y/Y
Commodity	Origin state	Destination region			metric ton <sup>3</sup>	bushel <sup>3</sup>	
Wheat	MT	Chihuahua, CI	\$7,384	\$0	\$75.45	\$2.05	-2
	OK	Cuautitlan, EM	\$6,813	\$160	\$71.25	\$1.94	2
	KS	Guadalajara, JA	\$7,531	\$703	\$84.13	\$2.29	4
	TX	Salinas Victoria, NL	\$4,347	\$97	\$45.41	\$1.23	2
Corn	IA	Guadalajara, JA	\$8,902	\$604	\$97.13	\$2.46	3
	SD	Celaya, GJ	\$8,140	\$0	\$83.17	\$2.11	0
	NE	Queretaro, QA	\$8,300	\$330	\$88.18	\$2.24	3
	SD	Salinas Victoria, NL	\$6,905	\$0	\$70.55	\$1.79	0
	MO	Tlahpantla, EM	\$7,665	\$322	\$81.61	\$2.07	3
	SD	Torreón, CU	\$7,690	\$0	\$78.57	\$1.99	0
Soybeans	MO	Bojay (Tula), HG	\$8,547	\$567	\$93.12	\$2.53	3
	NE	Guadalajara, JA	\$9,157	\$593	\$99.61	\$2.71	3
	IA	El Castillo, JA	\$9,410	\$0	\$96.15	\$2.61	-1
	KS	Torreón, CU	\$8,014	\$411	\$86.08	\$2.34	3
Sorghum	NE	Celaya, GJ	\$7,772	\$535	\$84.88	\$2.15	3
	KS	Queretaro, QA	\$8,108	\$200	\$84.88	\$2.15	2
	NE	Salinas Victoria, NL	\$6,713	\$161	\$70.23	\$1.78	2
	NE	Torreón, CU	\$7,092	\$376	\$76.31	\$1.94	3

<sup>1</sup>Rates are based upon published tariff rates for high-capacity shuttle trains. Shuttle trains are available for qualified shipments of 75-110 cars that meet railroad efficiency requirements.

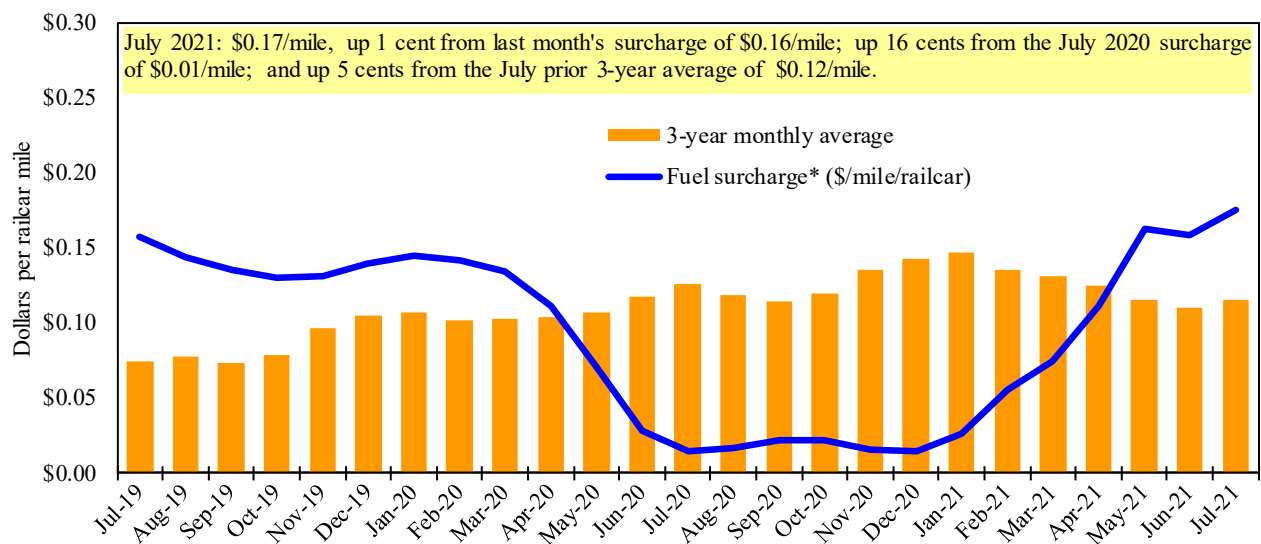
<sup>2</sup>Fuel surcharge adjusted to reflect the change in Ferrocarril Mexicano, S.A. de C.V railroad fuel surcharge policy as of 10/01/2009.

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

<sup>4</sup>Percentage change calculated using tariff rate plus fuel surcharge; Y/Y = year over year.

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

Figure 7

**Railroad fuel surcharges, North American weighted average<sup>1</sup>**

<sup>1</sup> Weighted by each Class I railroad's proportion of grain traffic for the prior year.

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

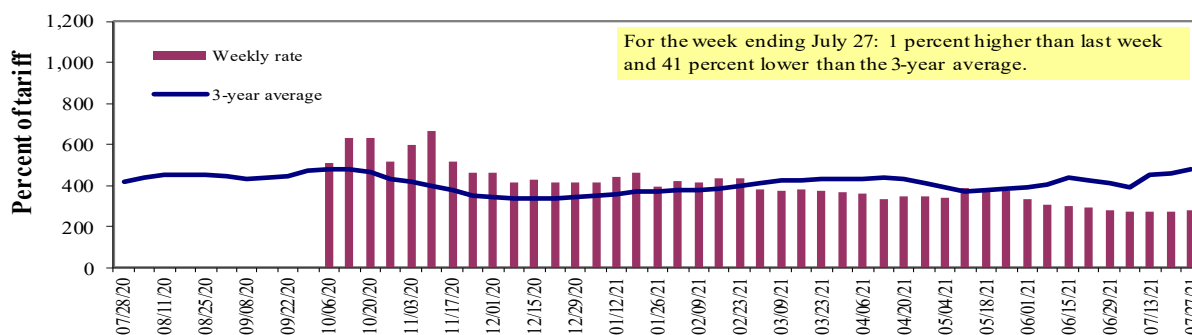
\*\*CSX strike price changed from \$2.00/gal. to \$3.75/gal. starting January 1, 2015.

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

# Barge Transportation

Figure 8

## Illinois River barge freight rate<sup>1,2,3</sup>



<sup>1</sup>Rate = percent of 1976 tariff benchmark index (1976 = 100 percent); <sup>2</sup>4-week moving average of the 3-year average.

<sup>3</sup>No rates data from 06/23/20 to 9/29/20 due to the lock closure for rehabilitation and replacement of lock machinery.

The 3-yr avg counts the average of MY2018 and MY2019. MY2020 data is not available. \*Source: USDA, Agricultural Marketing Service.

Table 9

## Weekly barge freight rates: Southbound only

		Twin Cities	Mid-Mississippi	Lower Illinois River	St. Louis	Cincinnati	Lower Ohio	Cairo-Memphis
<b>Rate<sup>1</sup></b>	7/27/2021	352	281	280	202	209	209	191
	7/20/2021	356	281	276	203	204	204	188
<b>\$/ton</b>	7/27/2021	21.79	14.95	12.99	8.06	9.80	8.44	6.00
	7/20/2021	22.04	14.95	12.81	8.10	9.57	8.24	5.90
<b>Current week % change from the same week:</b>								
	Last year	-25	-25	-	-22	-34	-34	-20
	3-year avg. <sup>2</sup>	-25	-36	-41	-35	-29	-29	-29
<b>Rate<sup>1</sup></b>	August	394	319	314	254	262	262	244
	October	581	546	542	428	533	533	420

<sup>1</sup>Rate = percent of 1976 tariff benchmark index (1976 = 100 percent); <sup>2</sup>4-week moving average; ton = 2,000 pounds; "-" not available due to lock closure.

ILL River 3-year avg. is the 4-week moving average of MY18 and MY19. Data for MY20 is unavailable. Source: USDA, Agricultural Marketing Service.

Figure 9

## Benchmark tariff rates

### Calculating barge rate per ton:

$$(\text{Rate} * 1976 \text{ tariff benchmark rate per ton}) / 100$$

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

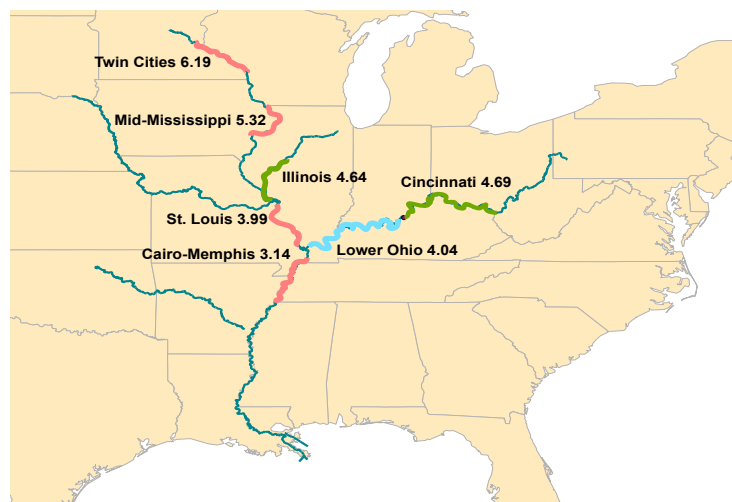
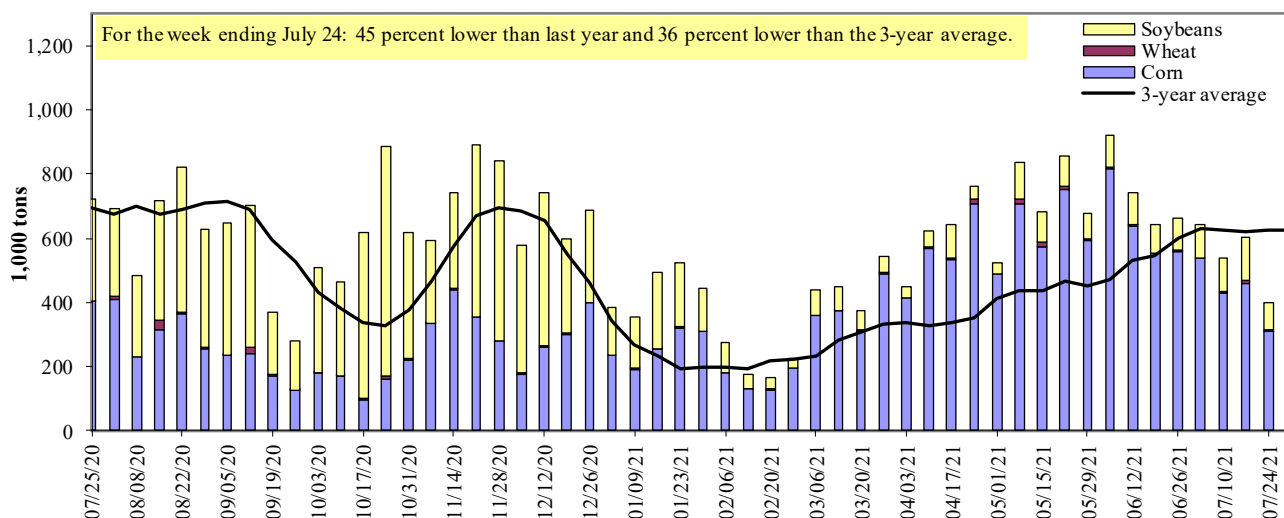


Figure 10

**Barge movements on the Mississippi River<sup>1</sup> (Locks 27 - Granite City, IL)**



<sup>1</sup> 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 07/24/2021	Corn	Wheat	Soybeans	Other	Total
<b>Mississippi River</b>					
Rock Island, IL (L15)	225	0	70	0	295
Winfield, MO (L25)	223	0	52	0	274
Alton, IL (L26)	348	3	98	0	449
Granite City, IL (L27)	311	3	85	0	399
<b>Illinois River (La Grange)</b>	88	0	29	0	116
<b>Ohio River (Olmsted)</b>	28	20	20	0	68
<b>Arkansas River (L1)</b>	0	45	0	0	45
Weekly total - 2021	339	68	105	0	512
Weekly total - 2020	343	64	336	5	747
2021 YTD <sup>1</sup>	17,411	901	4,916	198	23,427
2020 YTD <sup>1</sup>	10,583	1,083	6,905	97	18,668
2021 as % of 2020 YTD	165	83	71	204	125
Last 4 weeks as % of 2020 <sup>2</sup>	127	93	42	103	89
Total 2020	18,942	1,765	19,205	237	40,149

<sup>1</sup> Weekly total, YTD (year-to-date), and calendar year total include MI/27, OH/Olmsted, and AR/1; Other refers to oats, barley, sorghum, and rye.

Total may not add exactly due to rounding.

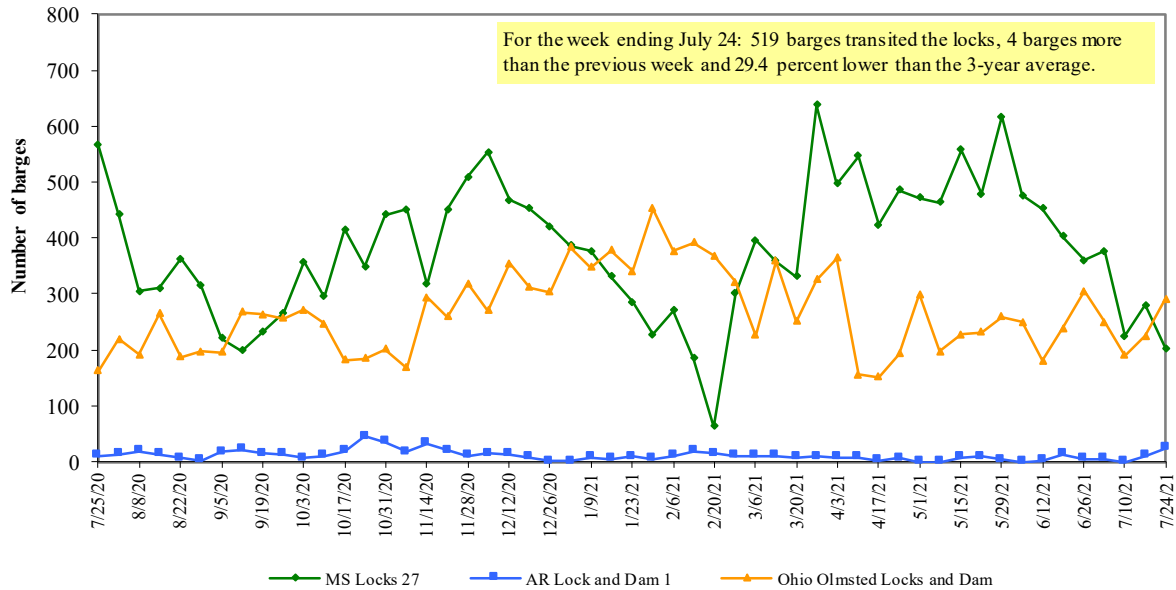
<sup>2</sup> As a percent of same period in 2020.

Note: L (as in "L15") refers to a lock, locks, or locks and dam facility.

Source: U.S. Army Corps of Engineers.

Figure 11

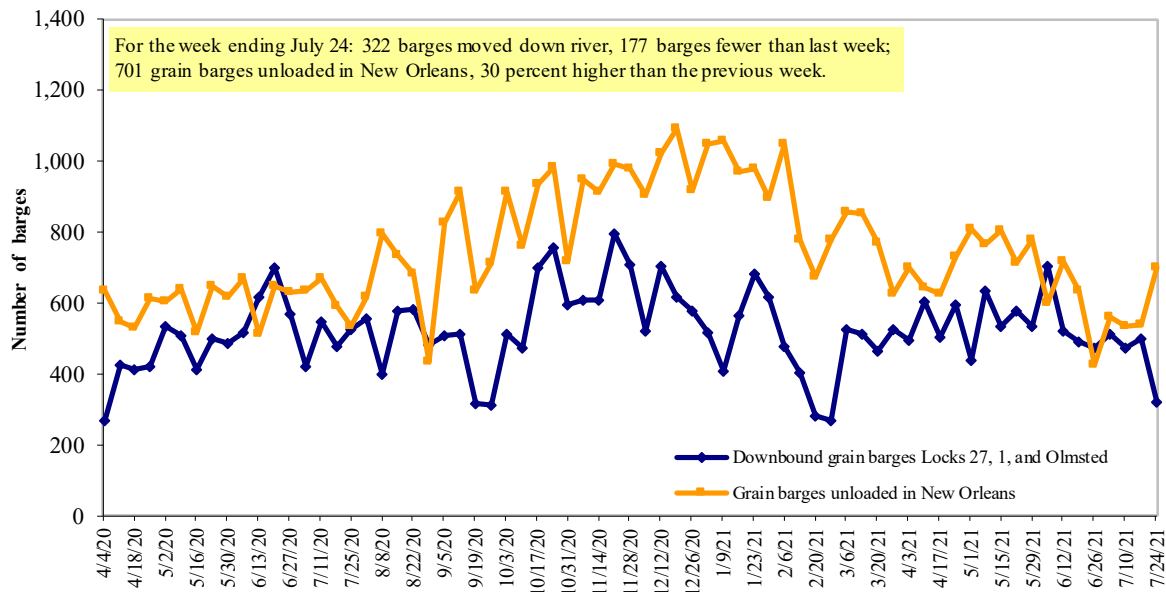
**Upbound empty barges transiting Mississippi River Locks 27, Arkansas River Lock and Dam 1, and Ohio River Olmsted Locks and Dam**



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 7/26/2021 (U.S. \$/gallon)**

Region	Location	Price	Change from	
			Week ago	Year ago
I	East Coast	3.311	-0.001	0.792
	New England	3.252	0.001	0.620
	Central Atlantic	3.473	-0.005	0.776
	Lower Atlantic	3.213	0.002	0.838
II	Midwest	3.258	-0.006	0.957
III	Gulf Coast	3.079	-0.004	0.896
IV	Rocky Mountain	3.647	0.013	1.305
V	West Coast	3.934	0.005	0.980
	West Coast less California	3.610	0.012	1.024
	California	4.204	-0.001	0.948
Total	United States	3.342	-0.002	0.915

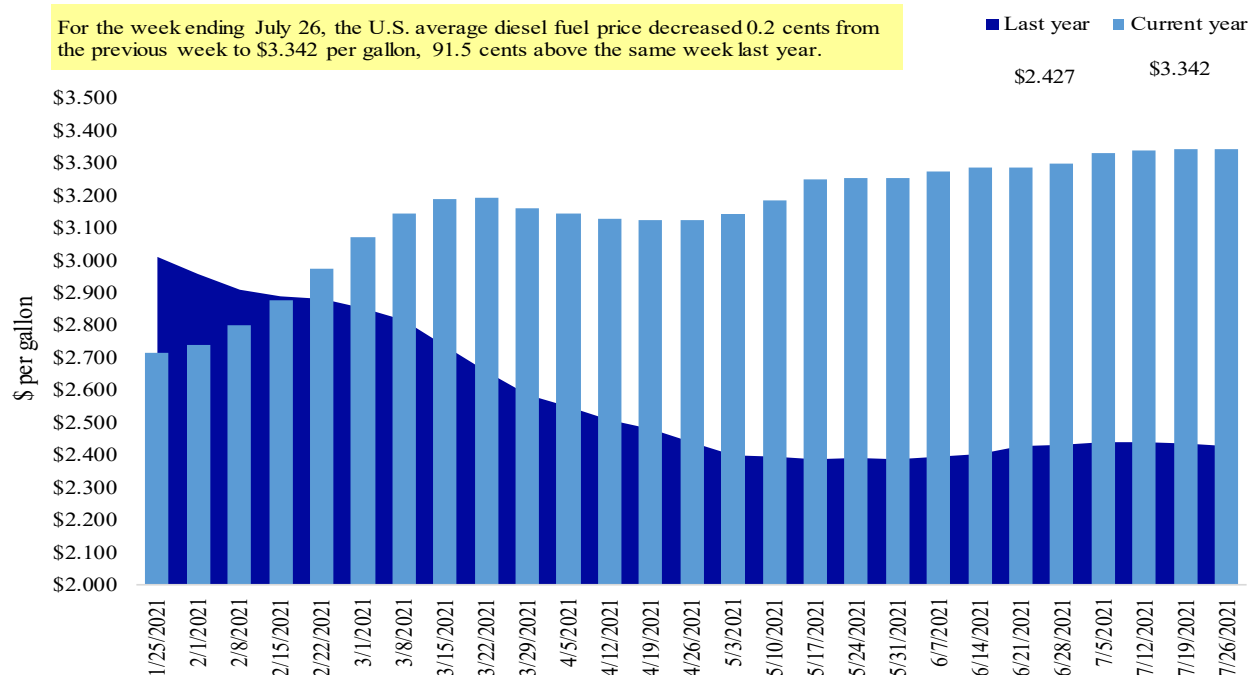
<sup>1</sup>Diesel fuel prices include all taxes. Prices represent an average of all types of diesel fuel.

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

Figure 13

**Weekly diesel fuel prices, U.S. average**

For the week ending July 26, the U.S. average diesel fuel price decreased 0.2 cents from the previous week to \$3.342 per gallon, 91.5 cents above the same week last year.



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)

For the week ending	Wheat					All wheat	Corn	Soybeans	Total
	HRW	SRW	HRS	SWW	DUR				
<b>Export balances<sup>1</sup></b>									
7/15/2021	1,631	967	1,533	1,065	8	5,205	9,019	3,132	17,357
This week year ago	1,696	676	1,770	1,172	203	5,517	6,678	7,865	20,060
<b>Cumulative exports-marketing year<sup>2</sup></b>									
2020/21 YTD	859	333	742	408	42	2,384	60,751	58,856	121,991
2019/20 YTD	1,618	214	838	496	159	3,325	37,032	38,529	78,886
YTD 2020/21 as % of 2019/20	53	156	89	82	26	72	164	153	155
Last 4 wks. as % of same period 2019/20*	93	142	89	92	4	94	158	42	95
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

<sup>1</sup> Current unshipped (outstanding) export sales to date.

<sup>2</sup> Shipped export sales to date; 2021/22 marketing year now in effect for wheat while corn and soybeans remain in effect for the 2020/21 marketing year.

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<sup>1</sup> of U.S. corn

For the week ending 07/15/2021	Total commitments <sup>2</sup>			% change current MY from last MY	Exports <sup>3</sup> 3-yr. avg. 2017-19
	2021/22 next MY	2020/21 current MY	2019/20 last MY		
					- 1,000 mt -
Mexico	2,053	15,086	14,368	5	14,869
Japan	882	10,916	9,802	11	11,221
Columbia	5	3,893	4,539	(14)	4,830
Korea	65	3,527	2,566	37	4,011
China	10,744	23,101	2,133	983	909
<b>Top 5 importers</b>	<b>13,749</b>	<b>56,523</b>	<b>33,408</b>	<b>69</b>	<b>35,840</b>
<b>Total U.S. corn export sales</b>	<b>16,127</b>	<b>69,771</b>	<b>43,710</b>	<b>60</b>	<b>49,983</b>
% of projected exports	25%	96%	97%		
Change from prior week <sup>2</sup>	<b>48</b>	<b>(89)</b>	<b>221</b>		
<b>Top 5 importers' share of U.S. corn export sales</b>	85%	81%	76%		72%
<b>USDA forecast July 2021</b>	<b>63,613</b>	<b>72,519</b>	<b>45,216</b>	<b>60</b>	
<b>Corn use for ethanol USDA forecast, July 2021</b>	<b>132,080</b>	<b>128,270</b>	<b>123,368</b>	<b>4</b>	

<sup>1</sup>Based on USDA, Foreign Agricultural Service (FAS) marketing year ranking reports for 2019/20; marketing year (MY) = Sep 1 - Aug 31.

<sup>2</sup>Cumulative 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.

<sup>3</sup>FAS 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.

Source: USDA, Foreign Agricultural Service.

Table 14

**Top 5 importers<sup>1</sup> of U.S. soybeans**

For the week ending 07/15/2021	Total commitments <sup>2</sup>			% change current MY from last MY	Exports <sup>3</sup> 3-yr. avg. 2017-19
	2021/22 next MY	2020/21 current MY	2019/20 last MY		
			1,000 mt -		- 1,000 mt -
China	4,136	35,826	16,441	118	19,106
Mexico	879	4,798	4,713	2	4,591
Egypt	0	2,777	3,603	(23)	2,980
Indonesia	10	2,318	2,166	7	2,360
Japan	170	2,411	2,397	1	2,288
<b>Top 5 importers</b>	<b>5,195</b>	<b>48,131</b>	<b>29,319</b>	<b>64</b>	<b>31,324</b>
<b>Total U.S. soybean export sales</b>	<b>9,865</b>	<b>61,988</b>	<b>46,395</b>	<b>34</b>	<b>49,352</b>
% of projected exports	17%	100%	101%		
change from prior week <sup>2</sup>	<b>176</b>	<b>62</b>	<b>307</b>		
<b>Top 5 importers' share of U.S. soybean export sales</b>	<b>53%</b>	<b>78%</b>	<b>63%</b>		<b>63%</b>
<b>USDA forecast, July 2021</b>	<b>56,540</b>	<b>61,853</b>	<b>45,749</b>	<b>135</b>	

<sup>1</sup>Based on USDA, Foreign Agricultural Service (FAS) marketing year ranking reports for 2019/20; marketing year (MY) = Sep 1 - Aug 31.

<sup>2</sup>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 previous week's outstanding sales and/or accumulated sales.

<sup>3</sup>FAS marketing year ranking reports (carryover plus accumulated export); yr. = year; avg. = average.

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

Source: USDA, Foreign Agricultural Service.

Table 15

**Top 10 importers<sup>1</sup> of all U.S. wheat**

For the week ending 07/15/2021	Total Commitments <sup>2</sup>		% change current MY from last MY	Exports <sup>3</sup> 3-yr. avg. 2018-20
	2021/22 current MY	2020/21 last MY		
		1,000 mt -		- 1,000 mt -
Mexico	1,271	889	43	3,388
Philippines	1,204	1,212	(1)	3,121
Japan	813	885	(8)	2,567
Korea	451	573	(21)	1,501
Nigeria	560	437	28	1,490
China	483	1,012	(52)	1,268
Taiwan	239	359	(33)	1,187
Indonesia	2	269	(99)	1,131
Thailand	124	199	(38)	768
Italy	54	283	(81)	681
<b>Top 10 importers</b>	<b>5,201</b>	<b>6,118</b>	<b>(15)</b>	<b>17,102</b>
<b>Total U.S. wheat export sales</b>	<b>7,589</b>	<b>8,841</b>	<b>(14)</b>	<b>24,617</b>
% of projected exports	32%	33%		
change from prior week <sup>2</sup>	<b>473</b>	<b>587</b>		
<b>Top 10 importers' share of U.S. wheat export sales</b>	<b>69%</b>	<b>69%</b>		<b>69%</b>
<b>USDA forecast, July 2021</b>	<b>23,842</b>	<b>27,030</b>	<b>(12)</b>	

<sup>1</sup>Based on USDA, Foreign Agricultural Service (FAS) marketing year ranking reports for 2020/21; Marketing year (MY) = Jun 1 - May 31.

<sup>2</sup>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.

<sup>3</sup>FAS marketing year final reports (carryover plus accumulated export); yr. = year; avg. = average.

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

Source: USDA, Foreign Agricultural Service.

Table 16

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

Port regions	For the week ending 07/22/21	Previous week*	Current week as % of previous	2021 YTD*	2020 YTD*	2021 YTD as % of 2020 YTD	Last 4-weeks as % of:		2020 total*
							Last year	Prior 3-yr. avg.	
<b>Pacific Northwest</b>									
Wheat	174	230	76	8,740	8,968	97	69	76	15,966
Corn	327	264	124	11,992	6,181	194	133	111	9,969
Soybeans	0	0	n/a	3,758	2,759	136	22	1	14,028
<b>Total</b>	<b>501</b>	<b>494</b>	<b>102</b>	<b>24,490</b>	<b>17,908</b>	<b>137</b>	<b>99</b>	<b>78</b>	<b>39,963</b>
<b>Mississippi Gulf</b>									
Wheat	83	136	61	1,646	2,264	73	115	146	3,422
Corn	468	564	83	27,507	17,212	160	104	111	28,781
Soybeans	127	69	183	10,700	12,072	89	30	29	38,013
<b>Total</b>	<b>678</b>	<b>769</b>	<b>88</b>	<b>39,854</b>	<b>31,549</b>	<b>126</b>	<b>76</b>	<b>80</b>	<b>70,215</b>
<b>Texas Gulf</b>									
Wheat	138	81	170	2,383	2,641	90	71	89	4,248
Corn	0	51	0	322	459	70	103	89	723
Soybeans	0	0	n/a	656	7	n/a	n/a	0	2,098
<b>Total</b>	<b>138</b>	<b>132</b>	<b>105</b>	<b>3,361</b>	<b>3,107</b>	<b>108</b>	<b>73</b>	<b>89</b>	<b>7,068</b>
<b>Interior</b>									
Wheat	100	89	113	1,659	1,292	128	188	196	2,263
Corn	214	179	120	5,446	4,838	113	93	99	8,683
Soybeans	100	78	128	3,455	3,624	95	68	56	7,274
<b>Total</b>	<b>414</b>	<b>346</b>	<b>120</b>	<b>10,560</b>	<b>9,754</b>	<b>108</b>	<b>96</b>	<b>93</b>	<b>18,220</b>
<b>Great Lakes</b>									
Wheat	0	25	0	253	388	65	28	36	891
Corn	9	0	n/a	48	0	n/a	n/a	34	111
Soybeans	22	0	n/a	56	61	92	n/a	44	1,111
<b>Total</b>	<b>32</b>	<b>25</b>	<b>128</b>	<b>357</b>	<b>448</b>	<b>80</b>	<b>72</b>	<b>39</b>	<b>2,113</b>
<b>Atlantic</b>									
Wheat	8	1	698	86	7	n/a	689	661	65
Corn	0	0	n/a	14	8	174	n/a	0	33
Soybeans	5	4	134	1,066	426	250	79	15	1,870
<b>Total</b>	<b>13</b>	<b>5</b>	<b>269</b>	<b>1,166</b>	<b>441</b>	<b>264</b>	<b>119</b>	<b>23</b>	<b>1,968</b>
<b>U.S. total from ports*</b>									
Wheat	503	561	90	14,767	15,561	95	85	99	26,854
Corn	1,019	1,058	96	45,329	28,697	158	109	108	48,301
Soybeans	254	152	168	19,691	18,949	104	40	29	64,394
<b>Total</b>	<b>1,776</b>	<b>1,770</b>	<b>100</b>	<b>79,788</b>	<b>63,207</b>	<b>126</b>	<b>85</b>	<b>80</b>	<b>139,548</b>

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

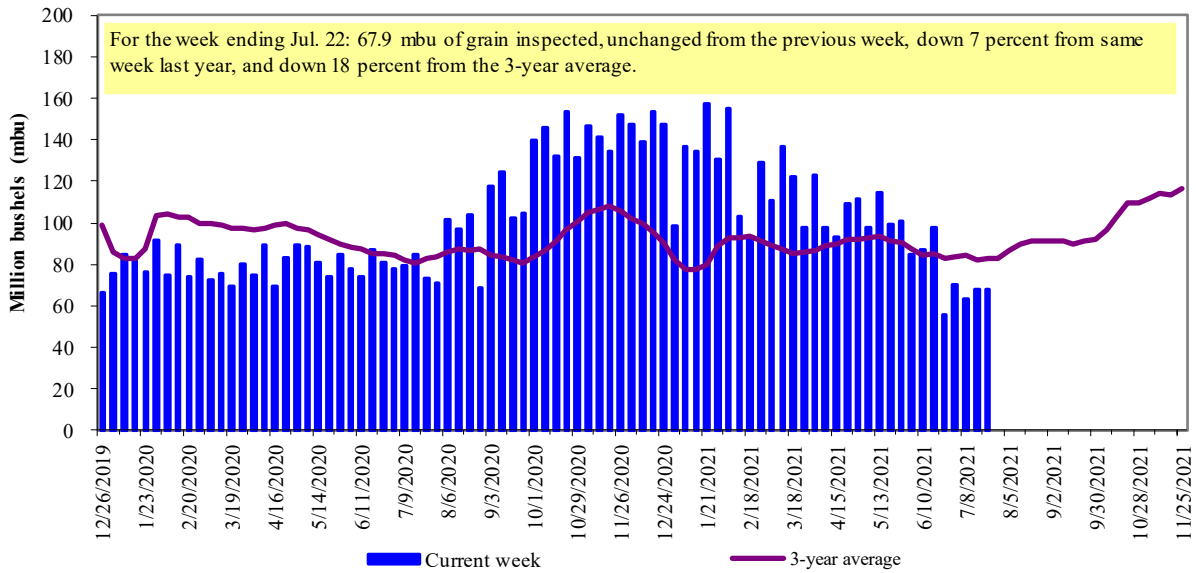
Source: USDA, Federal Grain Inspection Service; YTD= year-to-date; n/a = not applicable or no change.

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)**

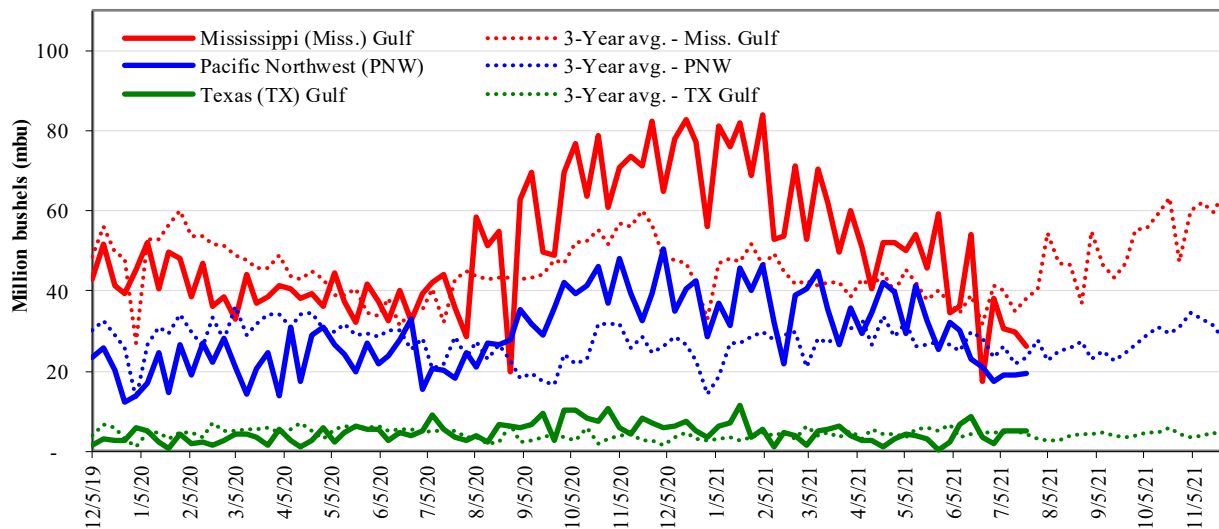


Note: 3-year average consists of 4-week running average.

Source: USDA, Federal Grain Inspection Service.

Figure 15

**U.S. Grain inspections: U.S. Gulf and PNW<sup>1</sup> (wheat, corn, and soybeans)**



Week ending 07/22/21 inspections (mbu):		Percent change from:				
MS Gulf:	26.1	Last wk:	MS Gulf down 12	TX Gulf up 2	U.S. Gulf down 10	PNW up 2
PNW:	19.3	Last Year (same wk):	MS Gulf down 27	TX Gulf up 41	U.S. Gulf down 20	PNW up 5
TX Gulf:	5.1	3-yr avg.(4-wk. mov. Avg):	MS Gulf down 32	TX Gulf up 7	U.S. Gulf down 28	PNW down 18

Source: USDA, Federal Grain Inspection Service.

# Ocean Transportation

Table 17

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

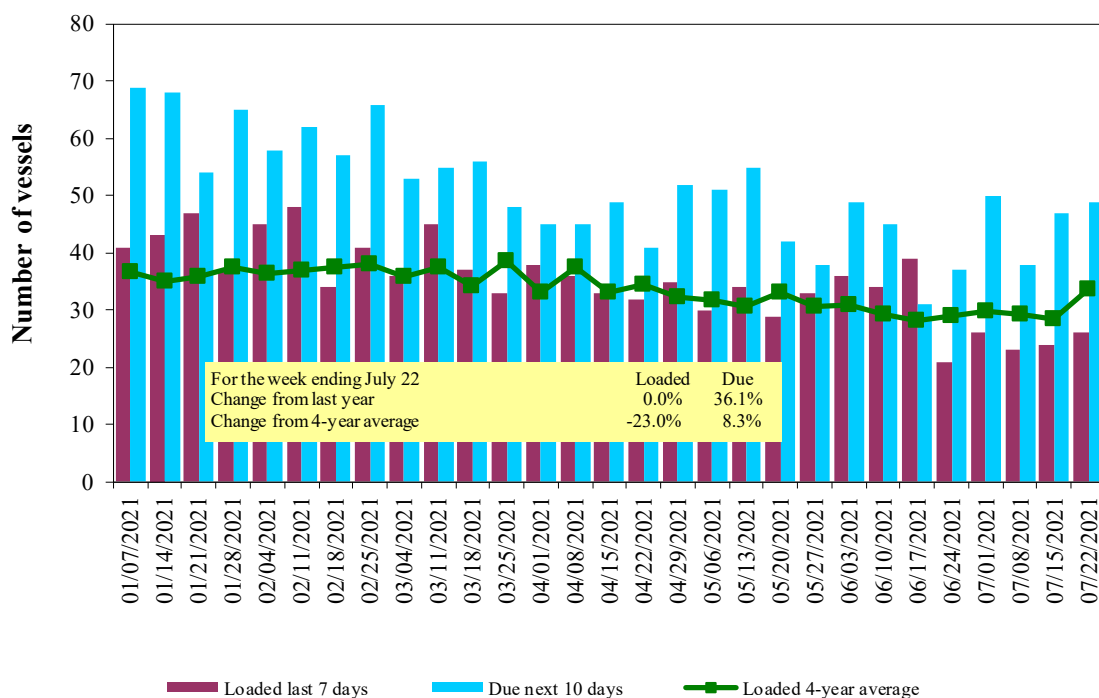
Date	Gulf			Pacific Northwest
	In port	Loaded	Due next	In port
		7-days	10-days	
7/22/2021	29	26	49	12
7/15/2021	27	24	47	9
2020 range	(22...60)	(23...46)	(34...68)	(7...24)
2020 average	37	33	49	15

Note: n/a = not available due to holiday.

Source: USDA, Agricultural Marketing Service.

Figure 16

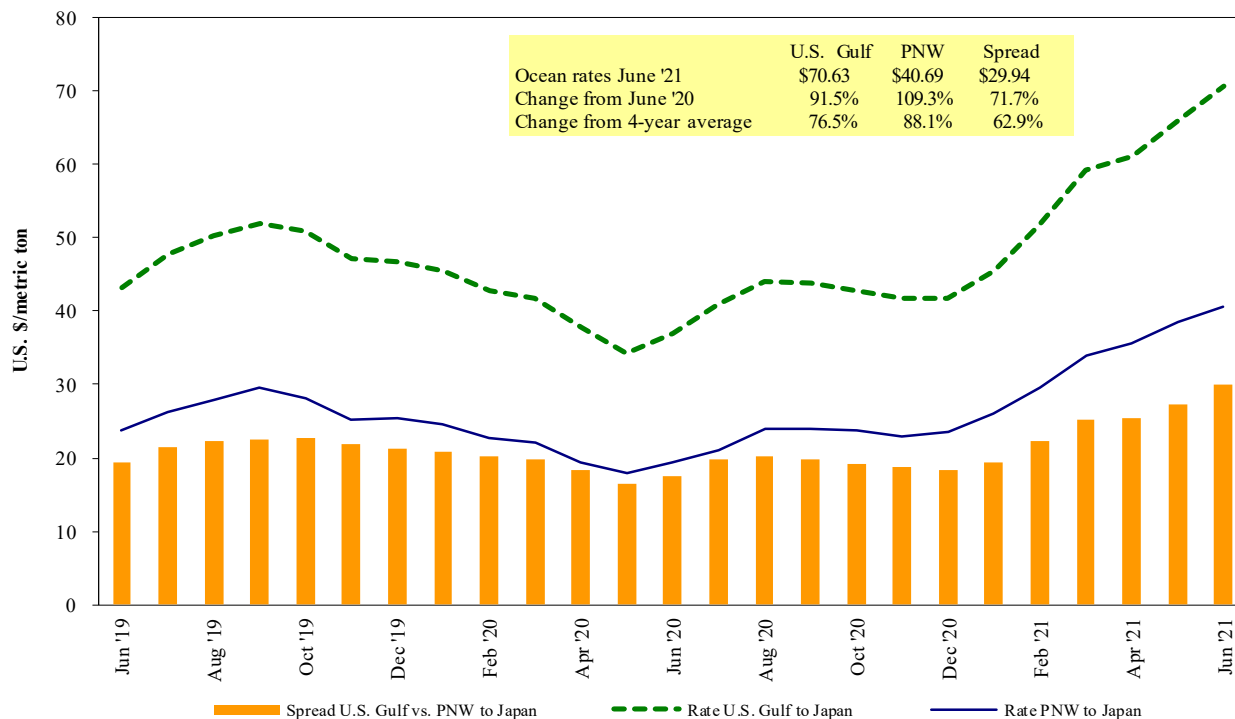
### U.S. Gulf<sup>1</sup> vessel loading activity



<sup>1</sup>U.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 07/24/2021

Export region	Import region	Grain types	Loading date	Volume loads (metric tons)	Freight rate (US\$/metric ton)
U.S. Gulf	Japan	Heavy grain	Oct 1/10	48,000	70.10
U.S. Gulf	Japan	Heavy grain	Aug 21/Sep 9	50,000	60.90
U.S. Gulf	Japan	Heavy grain	Aug 1/10	50,000	69.75
U.S. Gulf	Japan	Heavy grain	Jul 1/15	50,000	64.10
U.S. Gulf	Japan	Grain	May 25/ Jun 25	50,000	46.85 op 47.85
U.S. Gulf	Japan	Heavy grain	Apr 15/May 15	50,000	47.00
U.S. Gulf	Sudan	Wheat	Sep 1/10	49,000	79.12*
U.S. Gulf	Djibouti	Wheat	Jul 6/16	5,880	85.70*
PNW	Japan	Wheat	Sep 1	52,170	56.55*
PNW	Japan	Wheat	Jul 25/ Aug 5	32,590	64.00
PNW	Japan	Wheat	Jul 16/31	30,250	64.35
PNW	Japan	Wheat	Jun 5/15	50,600	49.30
PNW	Yemen	Wheat	Jun 10/20	22,230	132.25*
PNW	Taiwan	Heavy grain	Aug 20/30	35,000	64.20*
PNW	Taiwan	Wheat	Aug 1/10	55,000	54.95
PNW	Taiwan	Wheat	May 29/ Jun 12	45,665	48.00

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

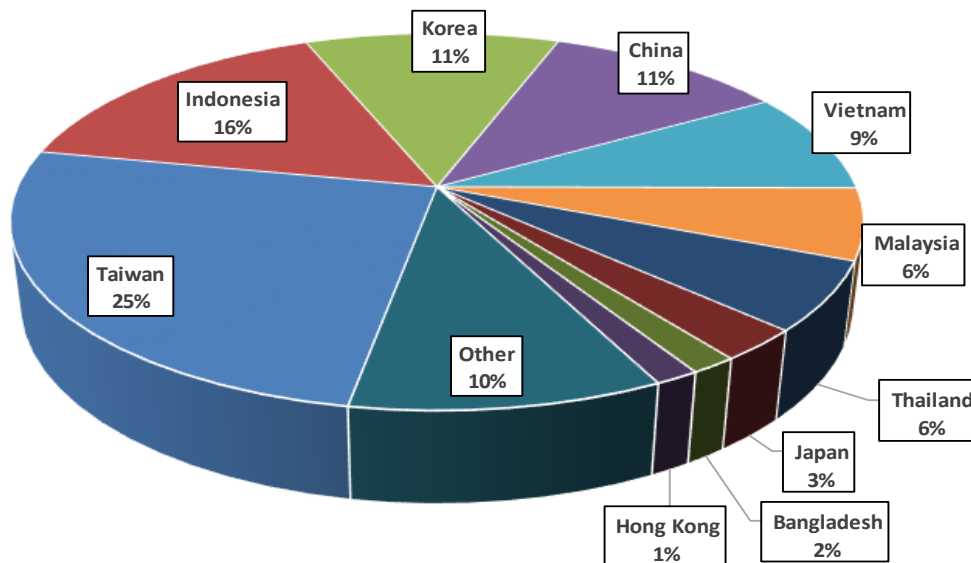
Note: Rates shown are per metric ton (2,204.62 lbs. = 1 metric ton), free on board (F.O.B), except where otherwise indicated;

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.

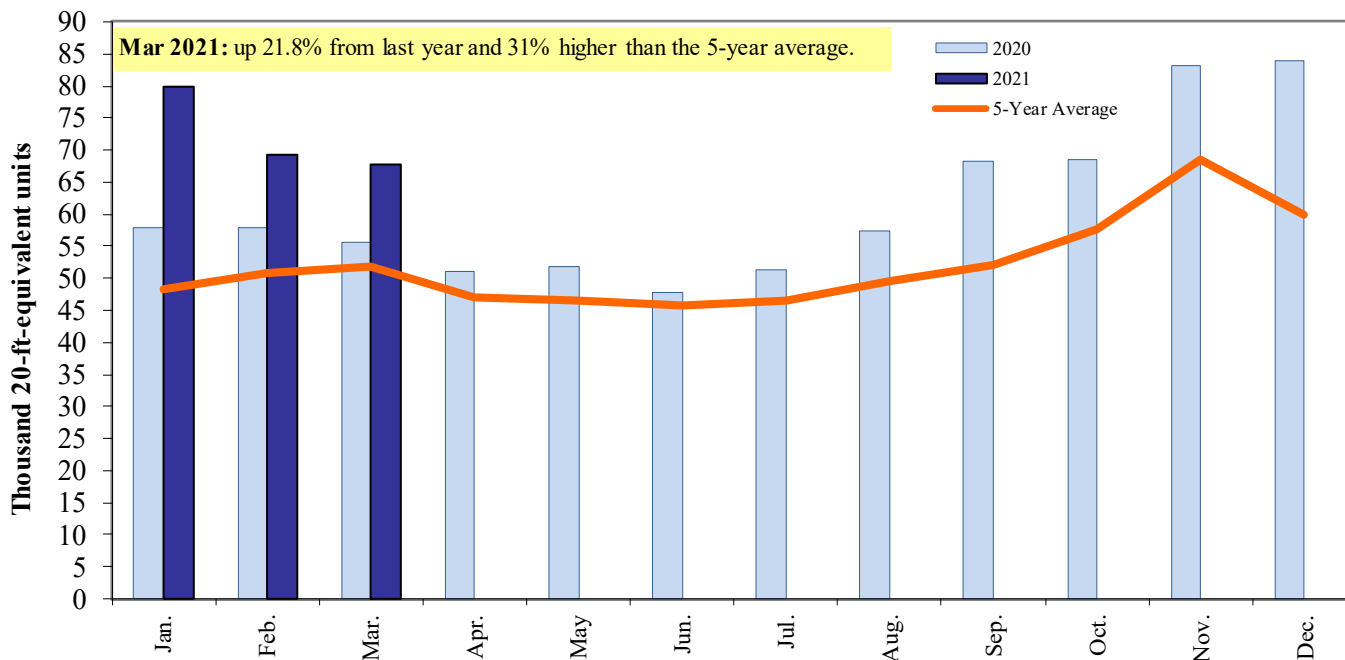
**Figure 18**  
**Top 10 destination markets for U.S. containerized grain exports, Jan-Mar 2021**



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 U.S. containerized grain exports**



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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Preferred citation: U.S. Department of Agriculture, Agricultural Marketing Service. *Grain Transportation Report*. July 29, 2021. Web: <http://dx.doi.org/10.9752/TS056.07-29-2021>

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