



Grain Transportation Report

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

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April 5, 2018

WEEKLY HIGHLIGHTS

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STB Requests Service Outlook from Class I Railroads

On March 16, 2018, STB sent letters requesting service outlook plans from all Class I railroads—in the near term and for the remainder of 2018—due to increased concerns over deteriorating service. STB asked about the adequacy of rail operations concerning locomotive availability, employee resources, local service performance, service demand, communication strategies, and capacity constraints. STB is concerned about service issues raised in letters from the National Grain and Feed Association, Alliance of Automobile Manufacturers, and The Fertilizer Institute regarding impacts from system-wide rail service deterioration. BNSF Railway and Canadian National have posted responses. All correspondence on this matter is available on the [STB website](#).

Pacific Northwest Grain Inspections Above Average

For the week ending March 29, **total inspections of grain** (corn, wheat, and soybeans) for export, from all major U.S. export regions, reached 2.3 million metric tons (mmt); down 6 percent from the previous week, down 14 percent from last year, and 3 percent above the 3-year average. Corn and wheat inspections increased slightly, but could not offset the 24 percent drop in inspections of soybeans. Pacific Northwest (PNW) grain inspections remained strong at 1 mmt and increased 24 percent from the previous week. During the last four weeks, inspections of grain in the PNW were 21 percent above last year and 37 percent above the 3-year average. Mississippi Gulf grain inspections decreased 20 percent from week to week. Current outstanding (unshipped) export sales were up for wheat but down for corn and soybeans.

Additional Rainfall Contributes to On-going Navigation Disruptions

As of April 5, widespread rainfall in the lower and middle Mississippi River Valley, extending into the Ohio River Valley, has added additional navigation disruptions to already flooded segments throughout the inland waterway system. For example, levels on the Ohio River at Cairo, IL, are already above flood stage but will not crest until April 9. Navigation on the lower Mississippi River continues to be restricted to daylight only, though Vicksburg, MS, and Baton Rouge, LA. Barge movements in the area between Baton Rouge and New Orleans require additional time and towboats to unload grain and return empty barges upriver, due to high and fast river conditions. As of April 3, the weekly change in spot barge rates for export grain has increased 15 percent on the Illinois River, 19 percent on the Upper Mississippi River at Davenport, IA, and 29 percent at St Louis, MO.

Snapshots by Sector

Export Sales

For the week ending March 22, **unshipped balances** of wheat, corn, and soybeans totaled 37.2 mmt, up 20 percent from the same time last year. Net weekly **wheat export sales** were .354 mmt, up 33 percent from the previous week. Net **corn export sales** were 1.35 mmt, down 8 percent from the previous week. Net **soybean export sales** totaled .317 mmt, down 58 percent from the previous week.

Rail

U.S. Class I railroads originated 23,570 **grain carloads** for the week ending March 24, unchanged from the previous week, up 1 percent from last year, and up 6 percent from the 3-year average.

Average April shuttle **secondary railcar** bids/offers per car were \$588 above tariff for the week ending March 29, up \$131 from last week, and \$908 higher than last year. There were no non-shuttle bids/offers this week.

Barge

For the week ending March 31, **barge grain movements** totaled 696,950 tons, 29 percent lower than the previous week and down 18 percent from the same period last year.

For the week ending March 31, 442 grain barges **moved down river**, 148 barges less than the previous week. There were 610 grain barges **unloaded in New Orleans**, 9 percent lower than the previous week.

Ocean

For the week ending March 29, 35 **ocean-going grain vessels** were loaded in the Gulf, 30 percent less than the same period last year. Fifty-eight vessels are expected to be loaded within the next 10 days, 9 percent more than the same period last year.

For the week ending March 29, the ocean freight rate for shipping bulk grain from the Gulf to Japan was \$45.00 per metric ton, 1 percent less than the previous week. The cost of shipping from the PNW to Japan was \$24.50 per metric ton, unchanged from the previous week.

Fuel

During the week ending April 2, average **diesel fuel prices** increased 3 cents from the previous week to \$3.04 per gallon, 49 cents higher than the same week last year.

Feature Article/Calendar

Analysis of Truck Data in the Transportation of Grain and Agricultural Products

Trucking is a critical mode of transportation for U.S. agriculture and rural communities, helping link farmers and ranchers to end markets, such as grain elevators, ethanol plants, processors, and feedlots. Trucks move over three-quarters of the total value and tonnage of agricultural freight and about half of agriculture's ton-miles. They often provide the first and last mile of agricultural shipments. The efficiency and flexibility of trucking enables agricultural producers and shippers to be competitive in the global marketplace for agricultural products.¹

However, data on truck freight, particularly for grain and agricultural products, is limited, which makes accurately estimating the economic impact and contribution of trucking to agriculture a challenge. Two related data sources, the Commodity Flow Survey (CFS) and Freight Analysis Framework (FAF), provide public data to analyze truck flows. This article briefly describes CFS and FAF and highlights key transportation characteristics of agricultural truck freight, including truck's movement of grain and agricultural products.²

CFS and FAF: Major Data Sources for Truck Flows

CFS and FAF both provide freight data across all modes, including multi-modal shipments, and both programs cover the full spectrum of commodities. This enables insight into the nature of grain and other agricultural shipments. While CFS and FAF are related, they are not the same. The CFS scope covers mining, manufacturing, wholesale, and other selected industries. It is conducted by asking business establishments to report destinations, weights, and modes for a sample of individual shipments. FAF uses the definitions established by CFS, and then expands the economic coverage by estimating shipments from industries that are not covered by CFS. For more information about these two sources, see the sidebar.

Since CFS excludes farm-based shipments, FAF uses data from USDA and other sources to estimate the volumes, values, and movements of this sector. Consequently, FAF generates markedly higher estimates of truck's share of the total value, tonnage, and ton-miles compared to CFS. For example, the estimated truck tonnage for grain and agricultural products was 1.15 billion tons in FAF, but only 0.36 billion tons in CFS, over three times larger. Similarly, FAF's estimated value and ton-miles (\$451 billion and 159 billion, respectively) of these two commodity groupings were over two times larger than CFS's estimates. For many rural areas, truck is the main, and sometimes only, mode of transportation to move grain and agricultural products from farms and elevators to end markets. The inclusion of farm-based shipments more accurately estimates truck's contribution to the transportation system. The following section highlights observations from the truck freight data in FAF4, the latest version of the FAF.

Tonnage and Value by State

According to FAF data, most truck hauls of grain are in-State. For example, trucks hauled over 75 million tons within Iowa, over 69 million tons within Illinois, and over 59 million tons in Nebraska in 2012.³ The largest out-of-state truck movements of grain were from Iowa to Minnesota (7 million tons), Iowa to Nebraska (6 million tons), and Nebraska to Kansas (4 million tons). Figure 1 shows States ranked by the tonnage and value of truck-hauled grain. The top five States for these grain shipments—Iowa (12 percent of total U.S. grain tonnage hauled by truck),

More About CFS and FAF

The [Commodity Flow Survey \(CFS\)](#), a joint effort by the U.S. Department of Transportation's Bureau of Transportation Statistics (BTS) and the U.S. Census Bureau, is an important source for National and State-level data on domestic freight shipments. CFS is conducted every five years as part of the Economic Census. It involves sampling around 100,000 business establishments, which fill out a questionnaire detailing their shipment characteristics during a one-week period in each calendar quarter. Data are provided on the type, origin, destination, value, weight, mode, distance shipped, and ton-miles of commodities shipped. It provides a modal picture of gross freight flows and represents the only publicly available source of original commodity flow data for the highway mode.

CFS data is a major input into the [Freight Analysis Framework \(FAF\)](#), which integrates data from a variety of sources to create a comprehensive picture of freight movement among states and major metropolitan areas by all modes of transportation. FAF is produced jointly by BTS and the Federal Highway Administration. The most recent FAF is FAF4. The "4" in "FAF4" refers to the database version. For instance, FAF2 is based on the 2002 CFS, FAF3 on the 2007 CFS, and FAF4 on the 2012 CFS. FAF4 also estimates projections at 5-year intervals from 2020 to 2045.

A key distinction between the two datasets is coverage. The 2012 CFS covered about 62 percent of the agricultural freight volume (by tonnage) of FAF4. The remainder covered in FAF is outside the scope of CFS. For example, farm-based agricultural shipments are not included in CFS. Shipments from the fishing and logging sectors are also excluded from CFS, but included in FAF. FAF uses additional sources, such as the 2012 *Census of Agriculture*, to estimate shipments from farms to grain elevators, distribution or processing centers, slaughterhouses, etc.

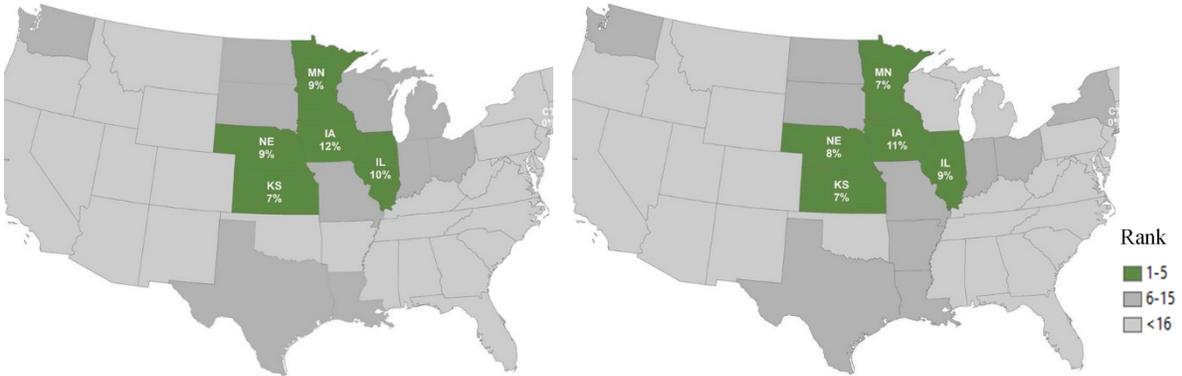
¹ USDA and U.S. Department of Transportation, Study of Rural Transportation Issues. [Chapter 13](#).

² In this article, "grain" refers to SCTG (Standard Classification of Transported Goods) code 2, which includes cereal grains, such as corn, wheat, rice, barley, oats, and sorghum. "Agricultural products" refers to commodities under SCTG code 3, including fruit, vegetables, and oilseeds.

³ As noted in Footnote 2, grain (SCTG code 2) does not include oilseeds.

Illinois (10 percent), Nebraska (9 percent), Minnesota (9 percent), and Kansas (7 percent)—are located in the Corn Belt and Upper Great Plains where much of the crops are produced. These States also have considerable ethanol capacity and livestock operations, which rely heavily on sourcing grain by truck. The total tonnage from these five States accounted for almost half of all domestic truck grain shipments. About 90 percent of the total truck tonnage in these five States consisted of intrastate, short-distance routes. A majority of the total value (\$72 billion) from the top five States was also in-State grain truck shipments.

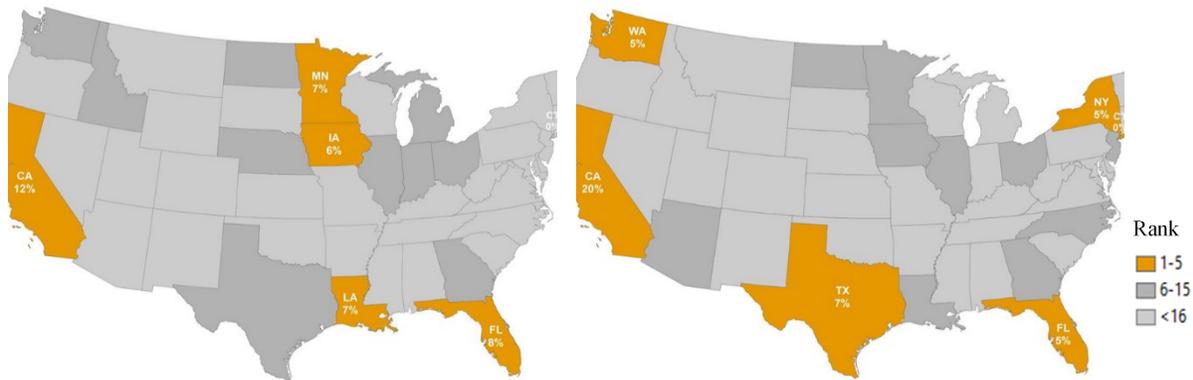
Figure 1: Grain Shipments by Truck, Tonnage (Left) and Value (Right), 2012.



Source: AMS-TSD analysis of FAF4 data. Percentages reflect each State’s originated tonnage and value as a share of the total for SCTG code 2.

The top five States for agricultural product shipments—California, Florida, Louisiana, Minnesota, and Iowa—represented 40 percent of the total annual tonnage (Figure 2). About 81 percent were in-State shipments. Similarly, the top five States for truck shipments by value (California, Texas, Washington, Florida, and New York) accounted for about 41 percent of the total value, with 74 percent of shipments remaining in-State. Notably, California alone consisted of 12 percent of the total tonnage and 20 percent of the total value, mostly due to its high productivity in fruits and vegetables and its closeness to major seaports.

Figure 2: Agricultural Products Shipments by Truck, Tonnage (Left) and Value (Right), 2012.



Source: AMS-TSD analysis of FAF4 data. Percentages reflect each State’s originated tonnage and value as a share of the total for SCTG code 3.

Conclusions

Trucking is an important mode in the movement of grain and agricultural products. While CFS and FAF offer insight into the otherwise relatively limited availability of truck data, FAF provides more farm-level observations than CFS, making it more useful for analyzing agricultural truck movements. One major finding using FAF data is that many agricultural truck shipments stay within States. Although not described in this article, FAF can support additional applications and insights such as spatial analysis and flows, and examining trends over time, using FAF’s projections at 5-year intervals through 2045. Overall, FAF data could be very helpful for stakeholders who want to estimate and understand truck tonnages and flows for agriculture.

Matt.Chang@ams.usda.gov, PeterA.Caffarelli@ams.usda.gov, Pierre.Bahizi@ams.usda.gov

Grain Transportation Indicators

Table 1

Grain Transport Cost Indicators¹

For the week ending	Truck	Rail		Barge	Ocean	
		Unit Train	Shuttle		Gulf	Pacific
04/04/18	204	275	239	310	201	174
03/28/18	202	275	234	271	202	174

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); and ocean = routes to Japan (\$/metric ton)

Source: Transportation & Marketing Programs/AMS/USDA

Table 2

Market Update: U.S. Origins to Export Position Price Spreads (\$/bushel)

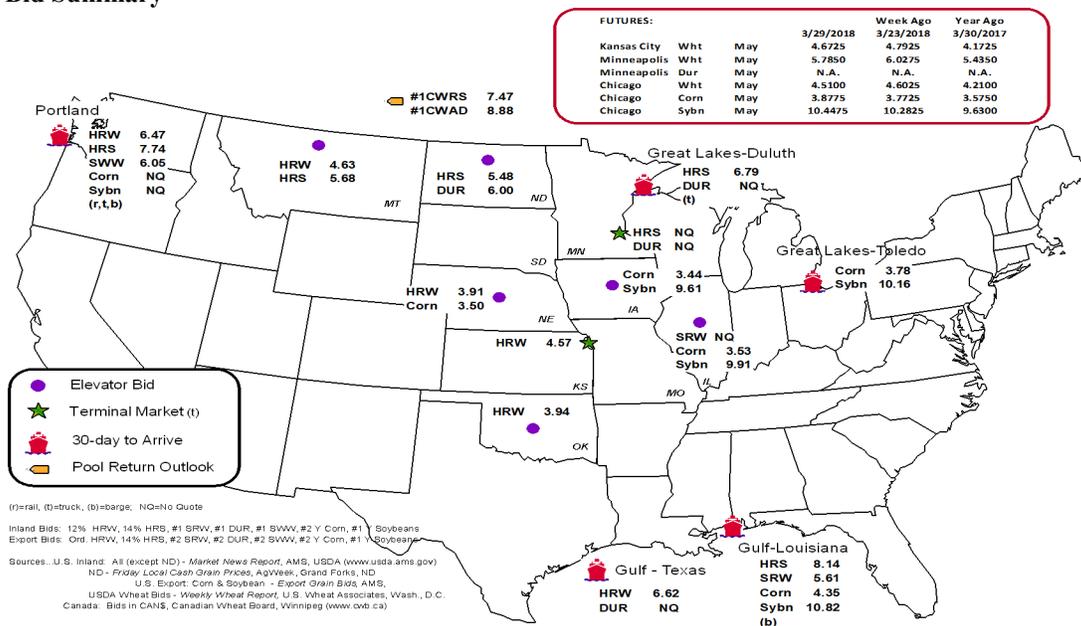
Commodity	Origin--Destination	3/29/2018	3/23/2018
Corn	IL--Gulf	-0.82	-0.85
Corn	NE--Gulf	-0.85	-0.91
Soybean	IA--Gulf	-1.21	-1.19
HRW	KS--Gulf	-2.05	-2.10
HRS	ND--Portland	-2.26	-2.17

Note: nq = no quote; n/a = not available

Source: Transportation & Marketing Programs/AMS/USDA

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

Figure 1
Grain Bid Summary



Rail Transportation

Table 3
Rail Deliveries to Port (carloads)¹

For the Week Ending	Mississippi		Pacific	Atlantic &	Total	Week ending	Cross-Border Mexico ³
	Gulf	Texas Gulf	Northwest	East Gulf			
03/28/2018 ^p	254	1,512	6,805	345	8,916	3/24/2018	1,753
03/21/2018 ^r	468	1,412	7,542	332	9,754	3/17/2018	1,706
2018 YTD ^r	5,848	20,062	82,737	3,692	112,339	2018 YTD	22,515
2017 YTD ^r	11,684	25,800	81,195	8,475	127,154	2017 YTD	26,287
2018 YTD as % of 2017 YTD	50	78	102	44	88	% change YTD	86
Last 4 weeks as % of 2017 ²	34	77	112	67	94	Last 4wks % 2017	85
Last 4 weeks as % of 4-year avg. ²	55	95	124	61	109	Last 4wks % 4 yr	91
Total 2017	28,766	76,045	289,178	21,999	415,988	Total 2017	119,661
Total 2016	36,925	87,863	299,606	29,007	453,401	Total 2016	92,982

¹ Data is incomplete as it is voluntarily provided

² Compared with same 4-weeks in 2017 and prior 4-year average.

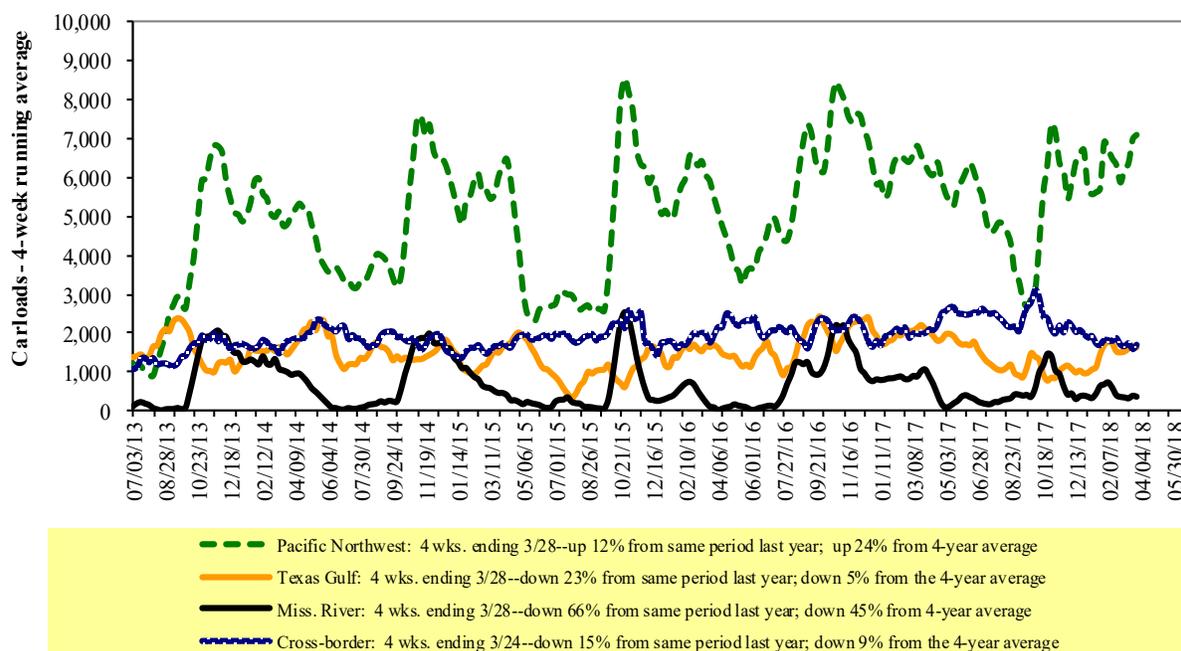
³ Cross-border weekly data is approximately 15 percent below the Association of American Railroads' reported weekly carloads received by Mexican railroads to reflect switching between KCSM and Grupo Mexico.

YTD = year-to-date; p = preliminary data; r = revised data; n/a = not available

Source: Transportation & Marketing Programs/AMS/USDA

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: Transportation & Marketing Programs/AMS/USDA

Table 4

Class I Rail Carrier Grain Car Bulletin (grain carloads originated)

For the week ending: 3/24/2018	East		West			U.S. total	Canada	
	CSXT	NS	BNSF	KCS	UP		CN	CP
This week	1,775	2,525	13,181	966	5,123	23,570	4,302	4,872
This week last year	1,545	3,300	11,823	883	5,763	23,314	3,779	4,089
2018 YTD	21,815	29,175	142,165	11,212	61,834	266,201	41,551	51,288
2017 YTD	23,220	34,142	134,422	12,068	74,533	278,385	46,461	49,747
2018 YTD as % of 2017 YTD	94	85	106	93	83	96	89	103
Last 4 weeks as % of 2017*	110	89	109	84	84	99	92	110
Last 4 weeks as % of 3-yr avg.**	105	92	113	94	96	105	97	107
Total 2017	89,465	142,823	578,964	50,223	289,574	1,151,049	198,623	244,766

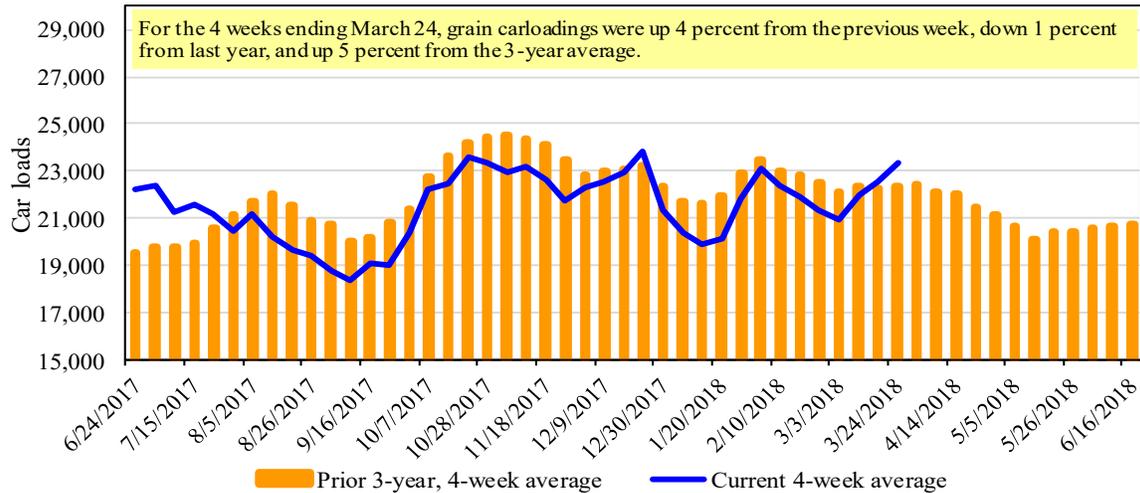
*The past 4 weeks of this year as a percent of the same 4 weeks last year.

**The past 4 weeks as a percent of the same period from the prior 3-year average. YTD = year-to-date.

Source: Association of American Railroads (www.aar.org)

Figure 3

Total Weekly U.S. Class I Railroad Grain Car Loadings



Source: Association of American Railroads

Table 5

Railcar Auction Offerings¹ (\$/car)²

For the week ending: 3/29/2018		Delivery period							
		Apr-18	Apr-17	May-18	May-17	Jun-18	Jun-17	Jul-18	Jul-17
BNSF ³	COT grain units	66	no bids	0	no bids				
	COT grain single-car ⁵	1	0	0	3	0	3	0	3
UP ⁴	GCAS/Region 1	no offer	no bids	no offer	no bids	10	no bids	n/a	n/a
	GCAS/Region 2	no offer	no bids	no offer	no bids	20	no bids	n/a	n/a

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

²Average premium/discount to tariff, last auction

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

⁴UP - GCAS = Grain Car Allocation System

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

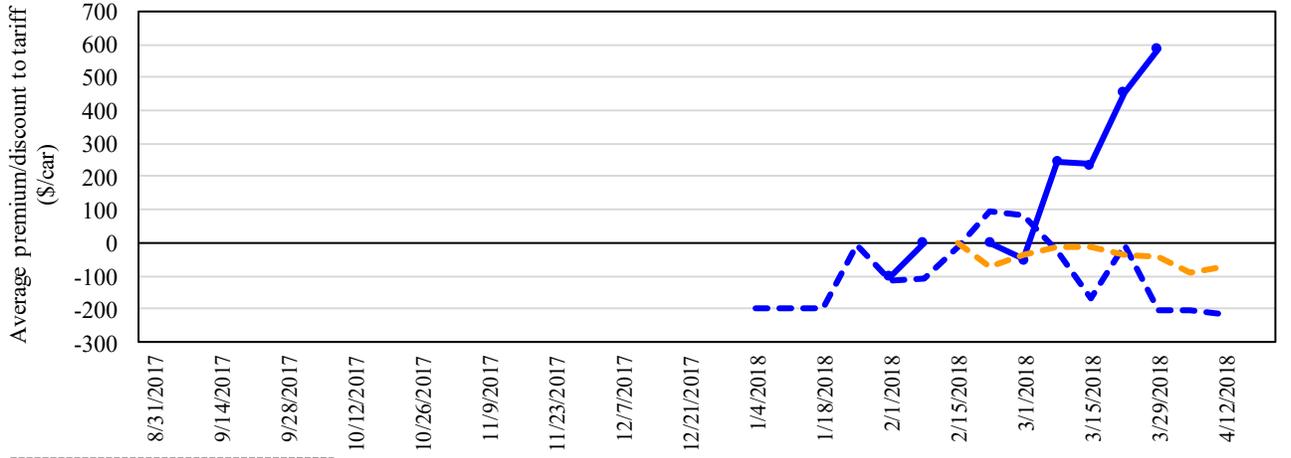
Region 2 includes: CO, IA, KS, MN, NE, WY, and Kansas City and St. Joseph, MO.

⁵Range is shown because average is not available. Not available = n/a.

Source: Transportation & Marketing Programs/AMS/USDA.

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

Figure 4
Bids/Offers for Railcars to be Delivered in April 2018, Secondary Market



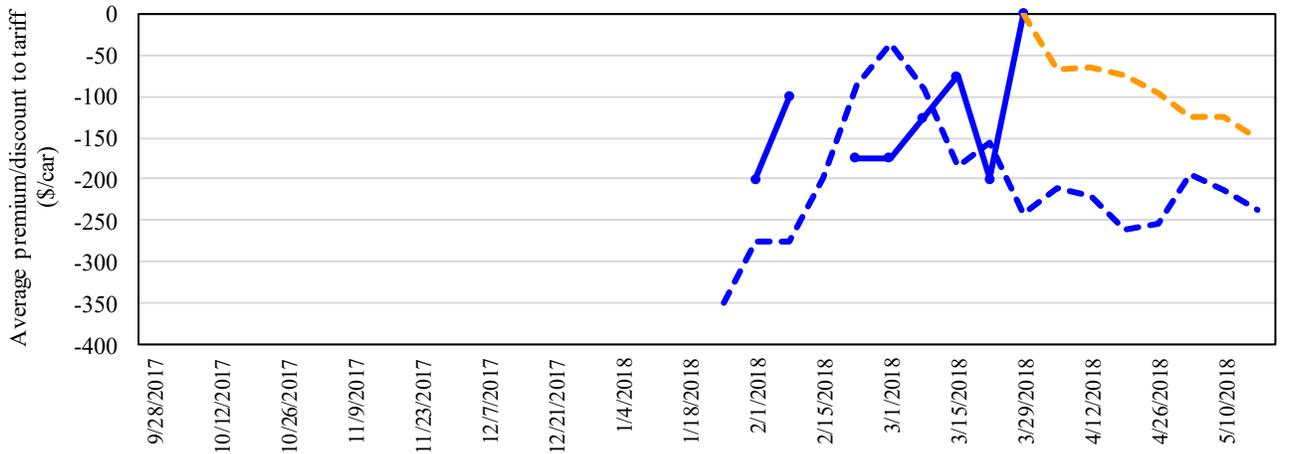
3/29/2018	BNSF	UP
Non-Shuttle	n/a	n/a
Shuttle	\$650	\$525

—●— Shuttle
- - - Shuttle prior 3-yr avg. (same week)
—□— Non-Shuttle
- - - Non-Shuttle prior 3-yr avg. (same week)

There were no Non-Shuttle bids/offers this week.
 Average Shuttle bids/offers rose \$131 this week and are at the peak.

Non-shuttle bids include unit-train and single-car bids. n/a = not available.
 Source: Transportation & Marketing Programs/AMS/USDA

Figure 5
Bids/Offers for Railcars to be Delivered in May 2018, Secondary Market



3/29/2018	BNSF	UP
Non-Shuttle	n/a	n/a
Shuttle	n/a	\$0

—●— Shuttle
- - - Shuttle prior 3-yr avg. (same week)
—□— Non-Shuttle
- - - Non-Shuttle prior 3-yr avg. (same week)

There were no Non-Shuttle bids/offers this week.
 Average Shuttle bids/offers rose \$200 this week and are at the peak.

Non-shuttle bids include unit-train and single-car bids. n/a = not available.
 Source: Transportation & Marketing Programs/AMS/USDA

Figure 6
Bids/Offers for Railcars to be Delivered in June 2018, Secondary Market

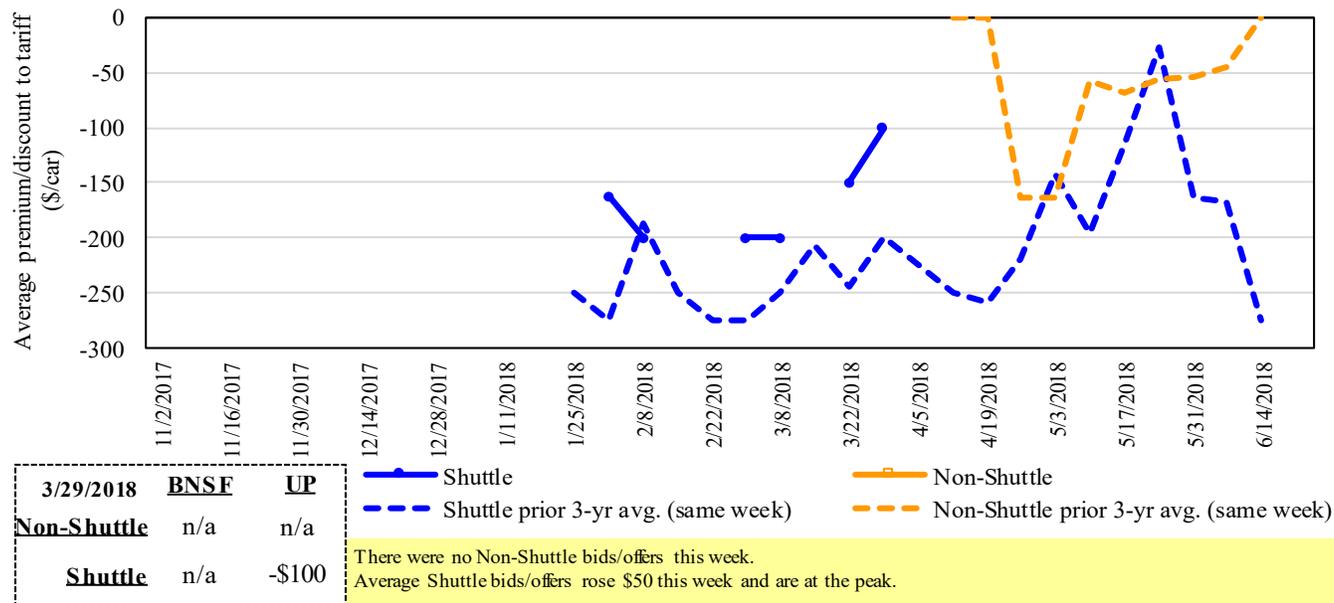


Table 6
Weekly Secondary Railcar Market (\$/car)¹

For the week ending: 3/29/2018		Delivery period					
		Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18
Non-shuttle	BNSF-GF	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 2017	n/a	n/a	n/a	n/a	n/a	n/a
	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 2017	n/a	n/a	n/a	n/a	n/a	n/a
Shuttle	BNSF-GF	650	n/a	n/a	n/a	n/a	n/a
	Change from last week	250	n/a	n/a	n/a	n/a	n/a
	Change from same week 2017	892	n/a	n/a	n/a	n/a	n/a
	UP-Pool	525	0	(100)	(200)	n/a	n/a
	Change from last week	12	200	50	(50)	n/a	n/a
	Change from same week 2017	925	375	n/a	n/a	n/a	n/a

¹Average premium/discount to tariff, \$/car-last week
 Note: Bids listed are market INDICATORS only & are NOT guaranteed prices,
 n/a = not available; GF = guaranteed freight; Pool = guaranteed pool
 Sources: Transportation and Marketing Programs/AMS/USDA
 Data from James B. Joiner Co., Tradewest Brokerage Co.

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

Table 7

Tariff Rail Rates for Unit and Shuttle Train Shipments¹

April, 2018	Origin region ³	Destination region ³	Tariff rate/car	Fuel surcharge per car	Tariff plus surcharge per:		Percent change Y/Y ⁴	
					metric ton	bushel ²		
Unit train								
Wheat	Wichita, KS	St. Louis, MO	\$3,883	\$96	\$39.51	\$1.08	4	
	Grand Forks, ND	Duluth-Superior, MN	\$4,143	\$0	\$41.14	\$1.12	0	
	Wichita, KS	Los Angeles, CA	\$7,050	\$0	\$70.01	\$1.91	1	
	Wichita, KS	New Orleans, LA	\$4,540	\$169	\$46.76	\$1.27	5	
	Sioux Falls, SD	Galveston-Houston, TX	\$6,786	\$0	\$67.39	\$1.83	1	
	Northwest KS	Galveston-Houston, TX	\$4,816	\$185	\$49.66	\$1.35	5	
	Amarillo, TX	Los Angeles, CA	\$5,021	\$258	\$52.42	\$1.43	5	
Corn	Champaign-Urbana, IL	New Orleans, LA	\$3,931	\$191	\$40.93	\$1.04	9	
	Toledo, OH	Raleigh, NC	\$6,344	\$0	\$63.00	\$1.60	5	
	Des Moines, IA	Davenport, IA	\$2,258	\$40	\$22.82	\$0.58	1	
	Indianapolis, IN	Atlanta, GA	\$5,446	\$0	\$54.08	\$1.37	5	
	Indianapolis, IN	Knoxville, TN	\$4,540	\$0	\$45.08	\$1.15	5	
	Des Moines, IA	Little Rock, AR	\$3,609	\$119	\$37.02	\$0.94	4	
	Des Moines, IA	Los Angeles, CA	\$5,327	\$346	\$56.34	\$1.43	5	
Soybeans	Minneapolis, MN	New Orleans, LA	\$4,131	\$186	\$42.87	\$1.17	17	
	Toledo, OH	Huntsville, AL	\$5,287	\$0	\$52.50	\$1.43	5	
	Indianapolis, IN	Raleigh, NC	\$6,460	\$0	\$64.15	\$1.75	5	
	Indianapolis, IN	Huntsville, AL	\$4,764	\$0	\$47.31	\$1.29	5	
	Champaign-Urbana, IL	New Orleans, LA	\$4,745	\$191	\$49.02	\$1.33	7	
Shuttle Train								
Wheat	Great Falls, MT	Portland, OR	\$3,953	\$0	\$39.26	\$1.07	0	
	Wichita, KS	Galveston-Houston, TX	\$4,171	\$0	\$41.42	\$1.13	2	
	Chicago, IL	Albany, NY	\$5,663	\$0	\$56.24	\$1.53	3	
	Grand Forks, ND	Portland, OR	\$5,611	\$0	\$55.72	\$1.52	0	
	Grand Forks, ND	Galveston-Houston, TX	\$5,931	\$0	\$58.90	\$1.60	0	
	Northwest KS	Portland, OR	\$5,812	\$304	\$60.73	\$1.65	5	
	Minneapolis, MN	Portland, OR	\$5,000	\$0	\$49.65	\$1.26	0	
Corn	Sioux Falls, SD	Tacoma, WA	\$4,960	\$0	\$49.26	\$1.25	0	
	Champaign-Urbana, IL	New Orleans, LA	\$3,731	\$191	\$38.95	\$0.99	10	
	Lincoln, NE	Galveston-Houston, TX	\$3,700	\$0	\$36.74	\$0.93	0	
	Des Moines, IA	Amarillo, TX	\$3,970	\$150	\$40.91	\$1.04	4	
	Minneapolis, MN	Tacoma, WA	\$5,000	\$0	\$49.65	\$1.26	0	
	Council Bluffs, IA	Stockton, CA	\$4,820	\$0	\$47.86	\$1.22	2	
	Soybeans	Sioux Falls, SD	Tacoma, WA	\$5,600	\$0	\$55.61	\$1.51	0
		Minneapolis, MN	Portland, OR	\$5,650	\$0	\$56.11	\$1.53	0
		Fargo, ND	Tacoma, WA	\$5,500	\$0	\$54.62	\$1.49	0
		Council Bluffs, IA	New Orleans, LA	\$4,775	\$220	\$49.61	\$1.35	8
Toledo, OH		Huntsville, AL	\$4,352	\$0	\$43.22	\$1.18	3	
Grand Island, NE	Portland, OR	\$5,710	\$311	\$59.79	\$1.63	7		

¹A unit train refers to shipments of at least 25 cars. Shuttle train rates are generally available for qualified shipments of 75-120 cars that meet railroad efficiency requirements.

²Approximate load per car = 111 short tons (100.7 metric tons): corn 56 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 calculated using tariff rate plus fuel surcharge

Table 8

Tariff Rail Rates for U.S. Bulk Grain Shipments to Mexico

Date: April, 2018			Fuel			Percent	
Commodity	Origin state	Destination region	Tariff rate/car ¹	surcharge per car ²	Tariff plus surcharge per:		change ⁴ Y/Y
					metric ton ³	bushel ³	
Wheat	MT	Chihuahua, CI	\$7,459	\$0	\$76.21	\$2.07	0
	OK	Cuautitlan, EM	\$6,631	\$132	\$69.10	\$1.88	1
	KS	Guadalajara, JA	\$7,309	\$323	\$77.98	\$2.12	2
	TX	Salinas Victoria, NL	\$4,292	\$81	\$44.68	\$1.21	2
Corn	IA	Guadalajara, JA	\$8,313	\$293	\$87.93	\$2.23	2
	SD	Celaya, GJ	\$7,700	\$0	\$78.68	\$2.00	2
	NE	Queretaro, QA	\$8,013	\$278	\$84.72	\$2.15	3
	SD	Salinas Victoria, NL	\$6,743	\$0	\$68.90	\$1.75	2
	MO	Tlalnepantla, EM	\$7,379	\$271	\$78.16	\$1.98	3
	SD	Torreón, CU	\$7,300	\$0	\$74.59	\$1.89	2
Soybeans	MO	Bojay (Tula), HG	\$8,134	\$273	\$85.90	\$2.34	-5
	NE	Guadalajara, JA	\$8,692	\$298	\$91.85	\$2.50	-2
	IA	El Castillo, JA	\$8,960	\$0	\$91.55	\$2.49	0
	KS	Torreón, CU	\$7,489	\$219	\$78.75	\$2.14	1
Sorghum	NE	Celaya, GJ	\$7,345	\$271	\$77.82	\$1.97	3
	KS	Queretaro, QA	\$7,819	\$165	\$81.58	\$2.07	4
	NE	Salinas Victoria, NL	\$6,452	\$133	\$67.28	\$1.71	5
	NE	Torreón, CU	\$6,790	\$211	\$71.53	\$1.82	4

¹Rates 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.

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

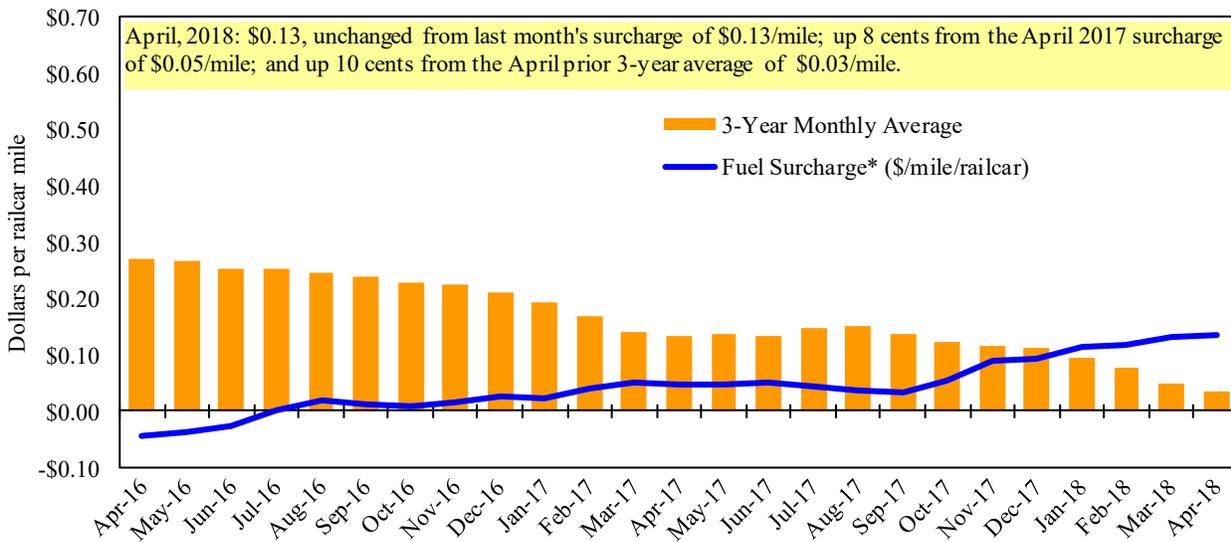
³Approximate load per car = 97.87 metric tons: Corn & Sorghum 56 lbs/bu, Wheat & Soybeans 60 lbs/bu

⁴Percentage change calculated using tariff rate plus fuel surcharge

Sources: www.bnsf.com, www.uprr.com, www.kcsouthern.com

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.

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

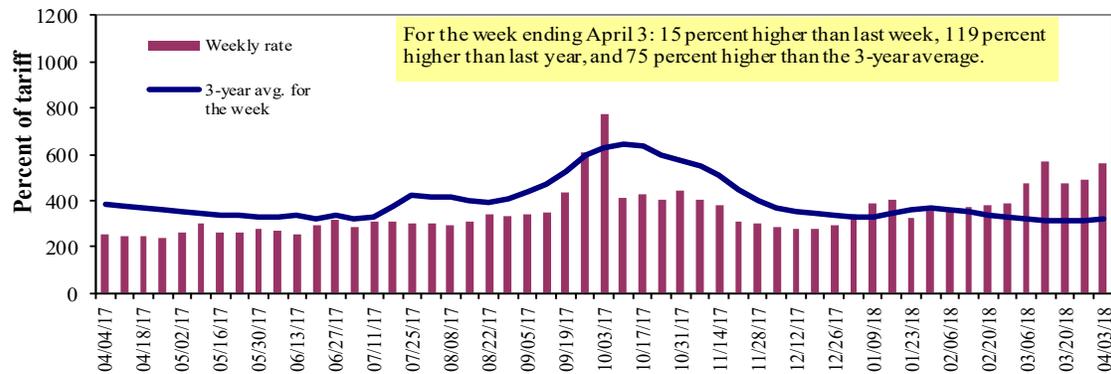
** CSX strike price changed from \$2.00/gal. to \$3.75/gal. starting January 1, 2015.

Sources: www.bnsf.com, www.cn.ca, www.cpr.ca, www.csx.com, www.kcsi.com, www.nscorp.com, www.uprr.com

Barge Transportation

Figure 8

Illinois River Barge Freight Rate^{1,2}



¹Rate = percent of 1976 tariff benchmark index (1976 = 100 percent); ²4-week moving average of the 3-year average.

Source: Transportation & Marketing Programs/AMS/USDA

Table 9

Weekly Barge Freight Rates: Southbound Only

		Twin Cities	Mid- Mississippi	Lower Illinois River	St. Louis	Cincinnati	Lower Ohio	Cairo- Memphis
Rate¹	4/3/2018	-	575	558	495	525	525	403
	3/27/2018	-	485	488	385	513	513	388
\$/ton	4/3/2018	-	30.59	25.89	19.75	24.62	21.21	12.65
	3/27/2018	-	25.80	22.64	15.36	24.06	20.73	12.18
Current week % change from the same week:								
	Last year	-	125	119	175	176	176	142
	3-year avg. ²	-	99	75	103	110	110	91
Rate¹	May	513	492	467	392	417	417	342
	July	488	443	422	342	363	363	298

¹Rate = percent of 1976 tariff benchmark index (1976 = 100 percent); ²4-week moving average; ton = 2,000 pounds; "-" = closed

Source: Transportation & Marketing Programs/AMS/USDA

Figure 9

Benchmark tariff rates

Calculating barge rate per ton:

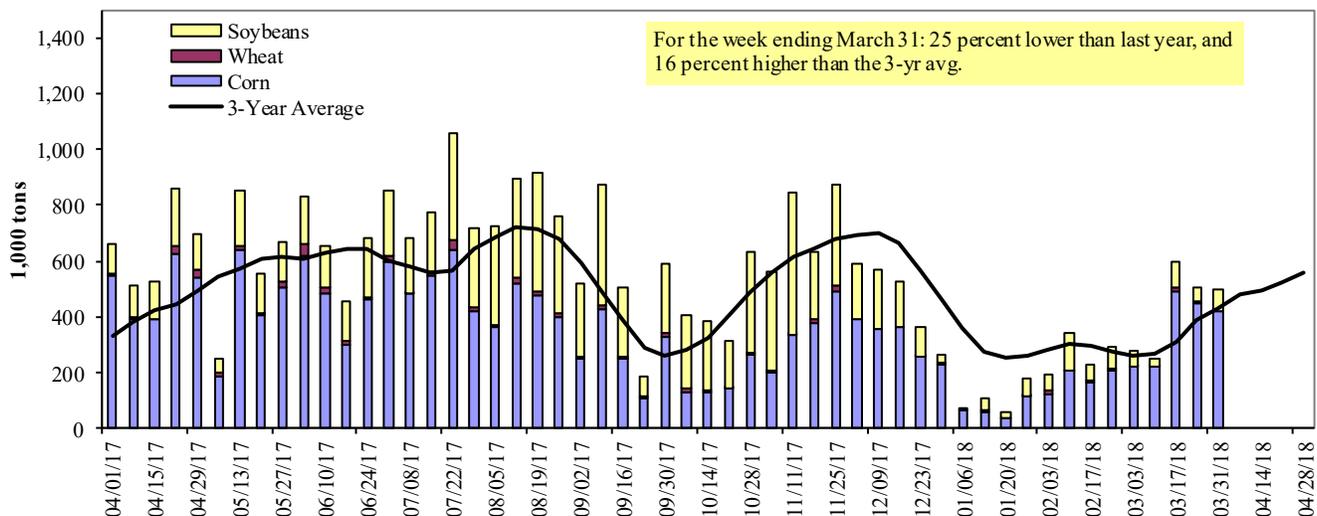
$(\text{Rate} * 1976 \text{ tariff benchmark rate per ton}) / 100$

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



Figure 10

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



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

Source: U.S. Army Corps of Engineers

Table 10

Barge Grain Movements (1,000 tons)

For the week ending 03/31/2018	Corn	Wheat	Soybeans	Other	Total
Mississippi River					
Rock Island, IL (L15)	40	5	9	0	54
Winfield, MO (L25)	121	0	25	0	146
Alton, IL (L26)	403	0	63	0	466
Granite City, IL (L27)	423	0	77	3	503
Illinois River (L8)	246	0	33	0	279
Ohio River (L52)	97	2	80	0	179
Arkansas River (L1)	6	6	4	0	15
Weekly total - 2018	526	7	161	3	697
Weekly total - 2017	646	32	172	0	851
2018 YTD ¹	4,025	374	2,757	45	7,201
2017 YTD	5,814	503	3,519	128	9,964
2018 as % of 2017 YTD	69	74	78	35	72
Last 4 weeks as % of 2017 ²	79	80	77	205	79
Total 2017	22,242	2,210	16,123	360	40,936

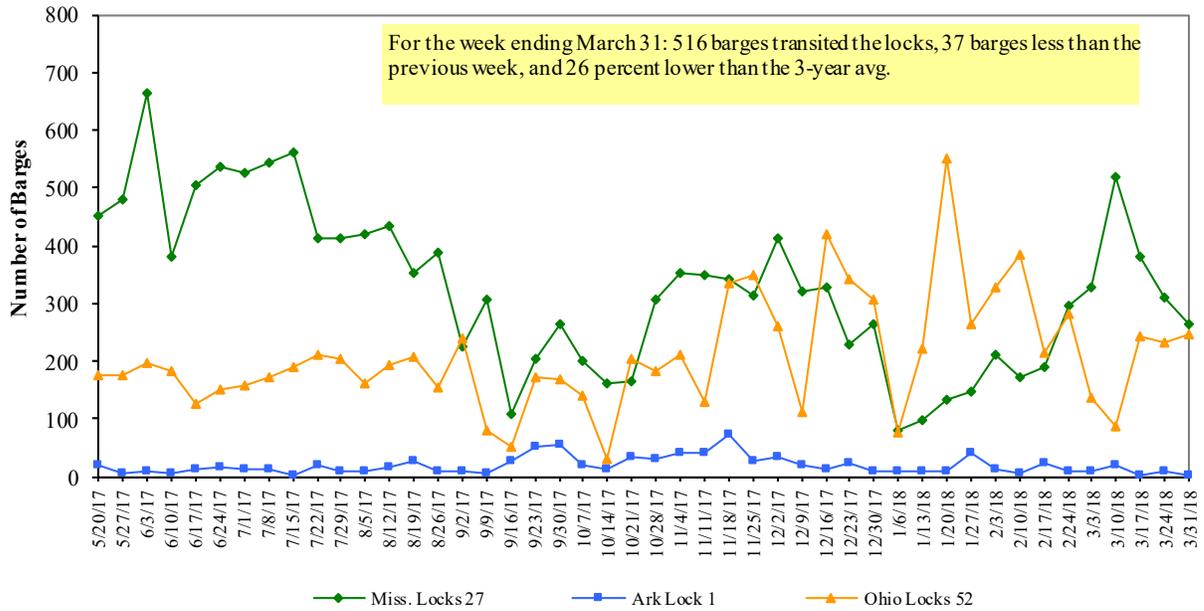
¹ Weekly total, YTD (year-to-date) and calendar year total includes Miss/27, Ohio/52, and Ark/1; "Other" refers to oats, barley, sorghum, and rye.

² As a percent of same period in 2017.

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

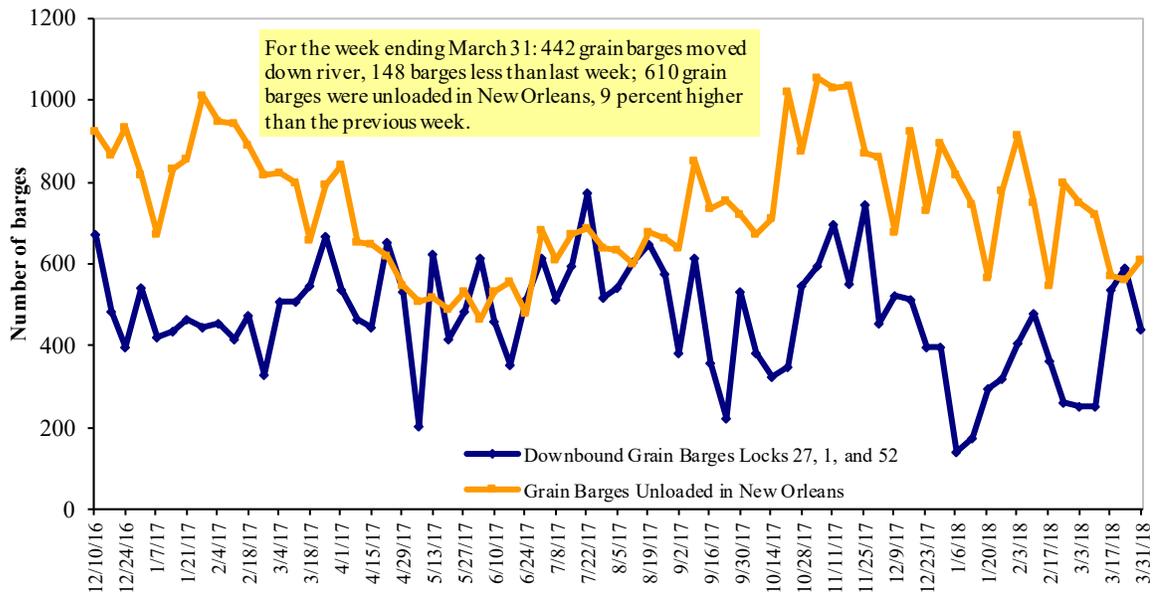
Source: U.S. Army Corps of Engineers

Figure 11
Upbound Empty Barges Transiting Mississippi River Locks 27, Arkansas River Lock and Dam 1, and Ohio River Locks and Dam 52



Source: U.S. Army Corps of Engineers

Figure 12
Grain Barges for Export in New Orleans Region



Source: U.S. Army Corps of Engineers and GIPSA

Truck Transportation

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

Table 11

Retail on-Highway Diesel Prices, Week Ending 4/2/2018 (US \$/gallon)

Region	Location	Price	Change from	
			Week ago	Year ago
I	East Coast	3.066	0.028	0.461
	New England	3.112	-0.003	0.482
	Central Atlantic	3.233	0.016	0.494
	Lower Atlantic	2.938	0.040	0.433
II	Midwest ²	2.962	0.028	0.481
III	Gulf Coast ³	2.851	0.028	0.437
IV	Rocky Mountain	3.044	0.053	0.421
V	West Coast	3.487	0.049	0.648
	West Coast less California	3.202	0.055	0.467
	California	3.714	0.045	0.791
Total	U.S.	3.042	0.032	0.486

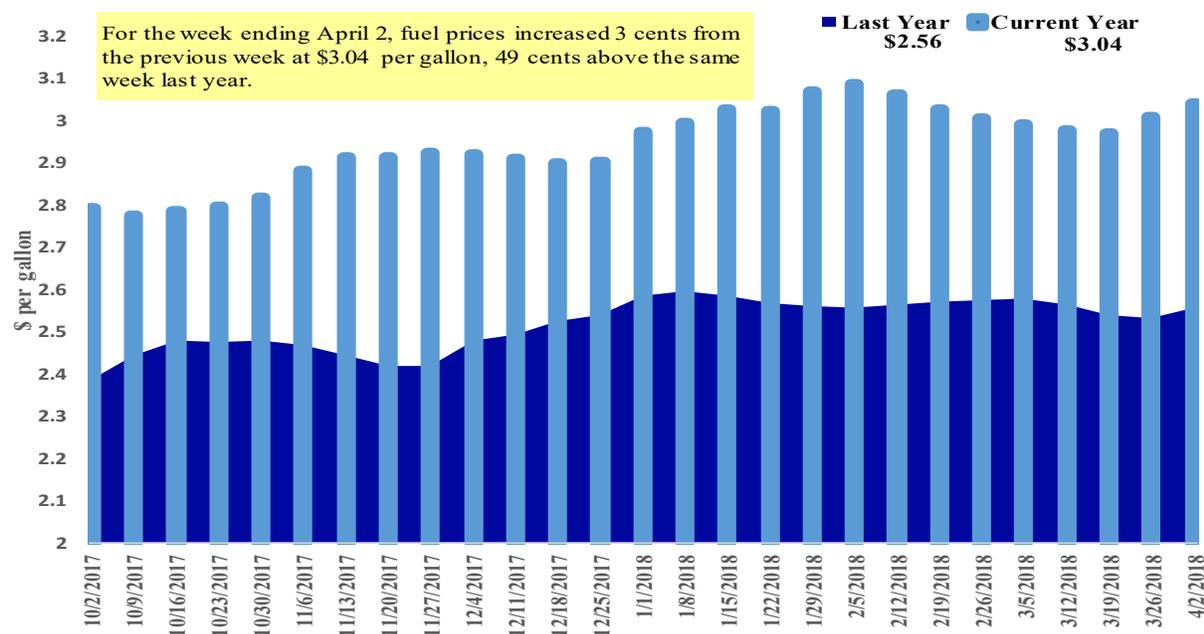
¹Diesel fuel prices include all taxes. Prices represent an average of all types of diesel fuel.

²Same as North Central ³Same as South Central

Source: Energy Information Administration/U.S. Department of Energy (www.eia.doe.gov)

Figure 13

Weekly Diesel Fuel Prices, U.S. Average



Source: Retail On-Highway Diesel Prices, Energy Information Administration, Dept. of Energy

Grain Exports

Table 12

U.S. Export Balances and Cumulative Exports (1,000 metric tons)

For the week ending	Wheat						Corn	Soybeans	Total
	HRW	SRW	HRS	SWW	DUR	All wheat			
Export Balances¹									
3/22/2018	1,230	562	1,429	1,059	66	4,346	23,491	9,352	37,189
This week year ago	2,089	524	1,949	1,332	76	5,969	16,893	8,026	30,889
Cumulative exports-marketing year²									
2017/18 YTD	7,709	1,832	4,515	4,099	308	18,463	22,964	40,999	82,425
2016/17 YTD	8,696	1,832	6,199	3,184	369	20,280	30,530	46,644	97,454
YTD 2017/18 as % of 2016/17	89	100	73	129	84	91	75	88	85
Last 4 wks as % of same period 2016/17	62	118	73	78	116	75	137	118	120
2016/17 Total	11,096	2,285	7,923	4,254	484	26,042	41,864	51,156	119,062
2015/16 Total	5,538	3,057	6,285	3,551	670	19,101	45,564	49,821	114,486

¹ Current unshipped (outstanding) export sales to date

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

Note: YTD = year-to-date. Marketing Year: wheat = 6/01-5/31, corn & soybeans = 9/01-8/31

Source: Foreign Agricultural Service/USDA (www.fas.usda.gov)

Table 13

Top 5 Importers¹ of U.S. Corn

For the week ending 3/22/2018	Total Commitments ²		% change current MY from last MY	Exports ³ 3-year avg 2014-2016
	2017/18	2016/17		
	Current MY	Last MY		
- 1,000 mt -				
Mexico	11,897	11,629	2	12,297
Japan	8,375	8,911	(6)	11,450
Korea	3,646	4,657	(22)	4,494
Colombia	3,153	3,488	(10)	4,179
Peru	2,387	2,410	(1)	2,693
Top 5 Importers	29,458	31,095	(5)	35,113
Total US corn export sales	46,455	47,424	(2)	49,308
% of Projected	82%	81%		
Change from prior week²	1,353	717		
Top 5 importers' share of U.S. corn export sales	63%	66%		71%
USDA forecast, March 2018	56,616	58,346	(3)	
Corn Use for Ethanol USDA forecast, March 2018	141,605	137,973	3	

¹ Based on FAS Marketing Year Ranking Reports for 2016/17 - www.fas.usda.gov; Marketing year (MY) = Sep 1 - Aug 31.

² Cumulative Exports (shipped) + Outstanding Sales (unshipped), FAS Weekly Export Sales Report, or Export Sales Query--
http://www.fas.usda.gov/esquery/. Total commitments change (net sales) from prior week could include revisions from
previous week's outstanding sales or accumulated sales.

³ FAS Marketing Year Ranking Reports - http://apps.fas.usda.gov/export-sales/myrkaug.htm; 3-yr average

Table 14

Top 5 Importers¹ of U.S. Soybeans

For the week ending 3/22/2018	Total Commitments ²		% change current MY from last MY	Exports ³ 3-yr avg. 2014-2016
	2017/18	2016/17		
	Current MY	Last MY		
	- 1,000 mt -			- 1,000 mt -
China	28,537	34,847	(18)	31,881
Mexico	3,624	3,246	12	3,452
Indonesia	1,574	1,617	(3)	1,987
Japan	1,728	1,775	(3)	2,067
Netherlands	1,109	1,176	(6)	2,098
Top 5 importers	36,571	42,661	(14)	41,486
Total US soybean export sales	50,351	54,670	(8)	52,919
% of Projected	89%	92%		
Change from prior week ²	317	681		
Top 5 importers' share of U.S. soybean export sales	73%	78%		78%
USDA forecast, March 2018	56,267	59,237	95	

(n) indicates negative number.

¹ Based on FAS Marketing Year Ranking Reports for 2016/17 - www.fas.usda.gov; Marketing year (MY) = Sep 1 - Aug 31.² Cumulative Exports (shipped) + Outstanding Sales (unshipped), FAS Weekly Export Sales Report, or Export Sales Query--
http://www.fas.usda.gov/esrquery/. Total commitments change (net sales) from prior week could include revisions from previous week's outstanding sales and/or accumulated sales³ FAS Marketing Year Final Reports - www.fas.usda.gov/export-sales/myfi_rpt.htm. (Carryover plus Accumulated Exports)

Table 15

Top 10 Importers¹ of All U.S. Wheat

For the week ending 3/22/2018	Total Commitments ²		% change current MY from last MY	Exports ³ 3-yr avg 2014-2016
	2017/18	2016/17		
	Current MY	Last MY		
	- 1,000 mt -			- 1,000 mt -
Japan	2,771	2,497	11	2,620
Mexico	2,773	3,007	(8)	2,743
Philippines	2,511	2,534	(1)	2,395
Brazil	111	1,184	(91)	862
Nigeria	1,187	1,380	(14)	1,254
Korea	1,419	1,186	20	1,104
China	926	1,233	(25)	1,623
Taiwan	1,106	940	18	768
Indonesia	1,214	1,005	21	726
Colombia	606	781	(22)	635
Top 10 importers	14,623	15,746	(7)	14,729
Total US wheat export sales	22,809	26,249	(13)	22,804
% of Projected	90%	91%		
Change from prior week ²	354	464		
Top 10 importers' share of U.S. wheat export sales	64%	60%		65%
USDA forecast, March 2018	25,204	28,747	(12)	

(n) indicates negative number.

¹ Based on FAS Marketing Year Ranking Reports for 2016/17 - www.fas.usda.gov; Marketing year = Jun 1 - May 31.² Cumulative Exports (shipped) + Outstanding Sales (unshipped), FAS Weekly Export Sales Report, or Export Sales Query--
http://www.fas.usda.gov/esrquery/. Total commitments change (net sales) from prior week could include revisions from the previous week's outstanding and/or accumulated sales³ FAS Marketing Year Final Reports - www.fas.usda.gov/export-sales/myfi_rpt.htm.

Table 16

Grain Inspections for Export by U.S. Port Region (1,000 metric tons)

Port Regions	For the Week Ending 03/29/18	Previous Week*	Current Week as % of Previous	2018 YTD*	2017 YTD*	2018 YTD as % of 2017 YTD	Last 4-weeks as % of:		2017 Total*
							Last Year	Prior 3-yr. avg.	
Pacific Northwest									
Wheat	218	146	150	2,679	3,270	82	72	86	14,805
Corn	606	541	112	4,414	3,567	124	142	183	10,928
Soybeans	209	144	145	3,589	3,257	110	180	130	13,246
Total	1,033	831	124	10,682	10,094	106	121	137	38,978
Mississippi Gulf									
Wheat	89	103	86	1,106	1,146	97	101	104	4,198
Corn	589	531	111	7,008	10,170	69	72	99	28,690
Soybeans	179	438	41	7,533	8,718	86	75	97	32,911
Total	857	1,072	80	15,648	20,034	78	74	99	65,800
Texas Gulf									
Wheat	55	75	74	1,213	1,650	74	46	69	6,354
Corn	0	32	0	131	268	49	56	48	733
Soybeans	0	0	n/a	0	0	n/a	n/a	n/a	292
Total	55	107	52	1,344	1,918	70	47	66	7,379
Interior									
Wheat	19	4	520	378	483	78	50	70	1,727
Corn	131	203	64	1,721	1,755	98	94	110	8,758
Soybeans	107	147	73	1,464	1,311	112	149	168	5,508
Total	256	354	72	3,563	3,549	100	105	124	15,993
Great Lakes									
Wheat	0	0	n/a	19	8	251	0	0	711
Corn	0	0	n/a	0	0	n/a	n/a	n/a	192
Soybeans	0	0	n/a	0	0	n/a	n/a	n/a	890
Total	0	0	n/a	19	8	251	0	0	1,793
Atlantic									
Wheat	0	35	0	64	36	176	n/a	192	46
Corn	0	0	n/a	0	5	0	0	0	32
Soybeans	76	18	432	582	660	88	135	96	2,001
Total	76	52	145	646	701	92	188	108	2,079
U.S. total from ports*									
Wheat	381	362	105	5,459	6,594	83	70	86	27,841
Corn	1,325	1,307	101	13,275	15,765	84	92	122	49,333
Soybeans	571	747	76	13,168	13,946	94	105	115	54,847
Total	2,277	2,416	94	31,903	36,304	88	90	112	132,021

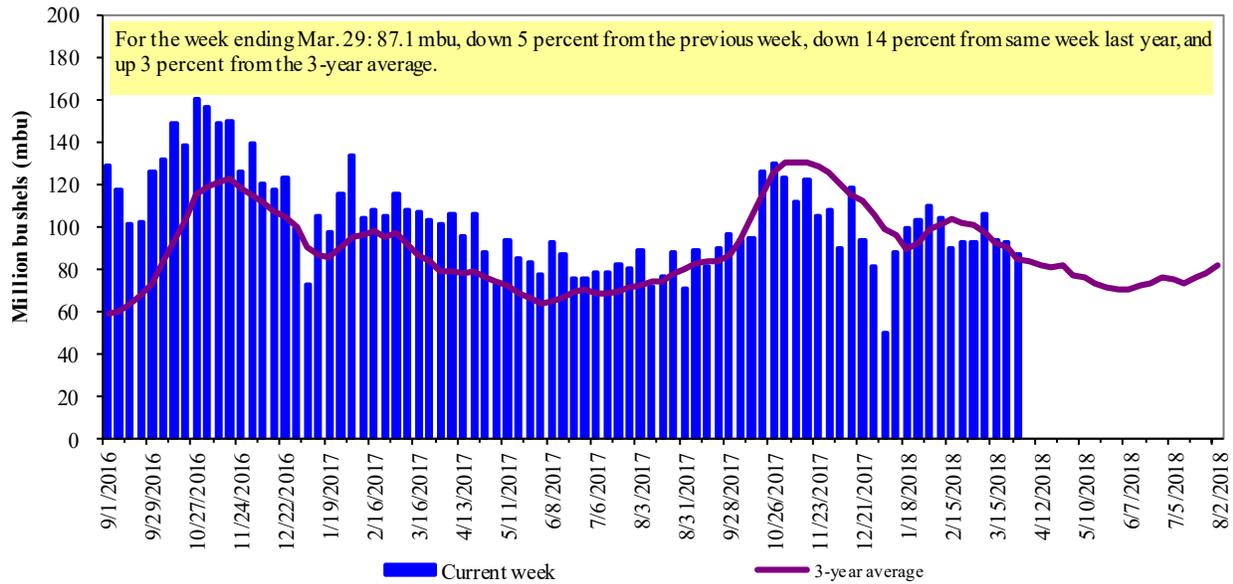
*Data includes revisions from prior weeks; some regional totals may not add exactly due to rounding.

Source: Grain Inspection, Packers and Stockyards Administration/USDA (www.gipsa.usda.gov); YTD= year-to-date; n/a = not applicable

The United States exports approximately one-quarter of the grain it produces. On average, this includes nearly 45 percent of U.S.-grown wheat, 35 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 2017.

Figure 14

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

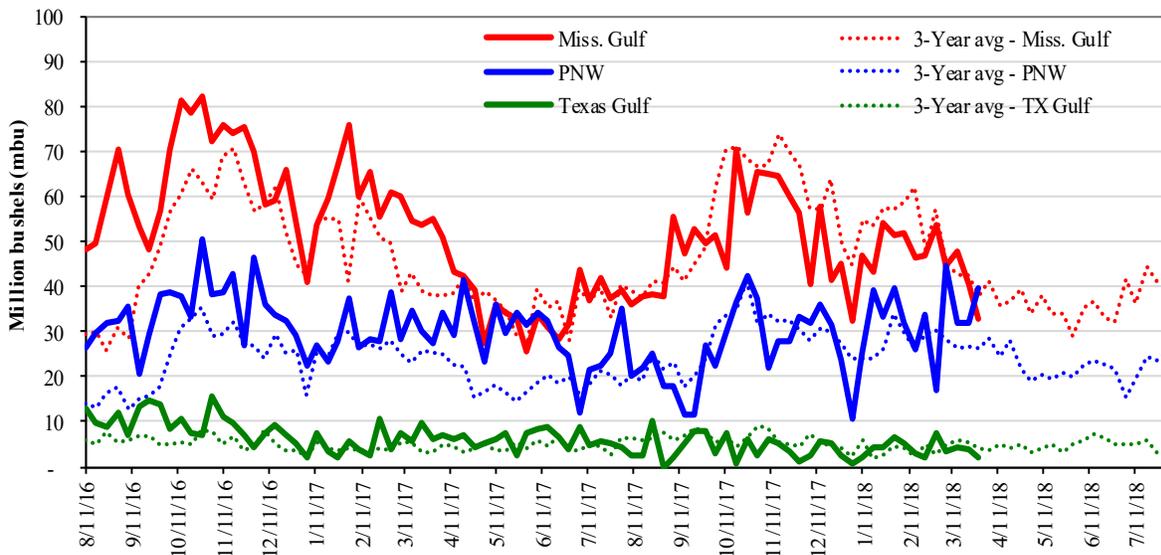


Source: Grain Inspection, Packers and Stockyards Administration/USDA (www.gipsa.usda.gov)

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

Figure 15

U.S. Grain Inspections: U.S. Gulf and PNW¹ (wheat, corn, and soybeans)



<u>Week ending 03/29/18 inspections (mbu):</u>	<u>Percent change from:</u>	<u>MS Gulf</u>	<u>TX Gulf</u>	<u>U.S. Gulf</u>	<u>PNW</u>
Mississippi Gulf: 33.0	Last Week:	down 19	down 50	down 22	up 24
PNW: 39.5	Last Year (same week):	down 40	down 68	down 43	up 43
Texas Gulf: 2.0	3-yr avg. (4-wk. mov. Avg):	down 21	down 61	down 26	up 47

Source: Grain Inspection, Packers and Stockyards Administration/USDA (www.gipsa.usda.gov)

Ocean Transportation

Table 17

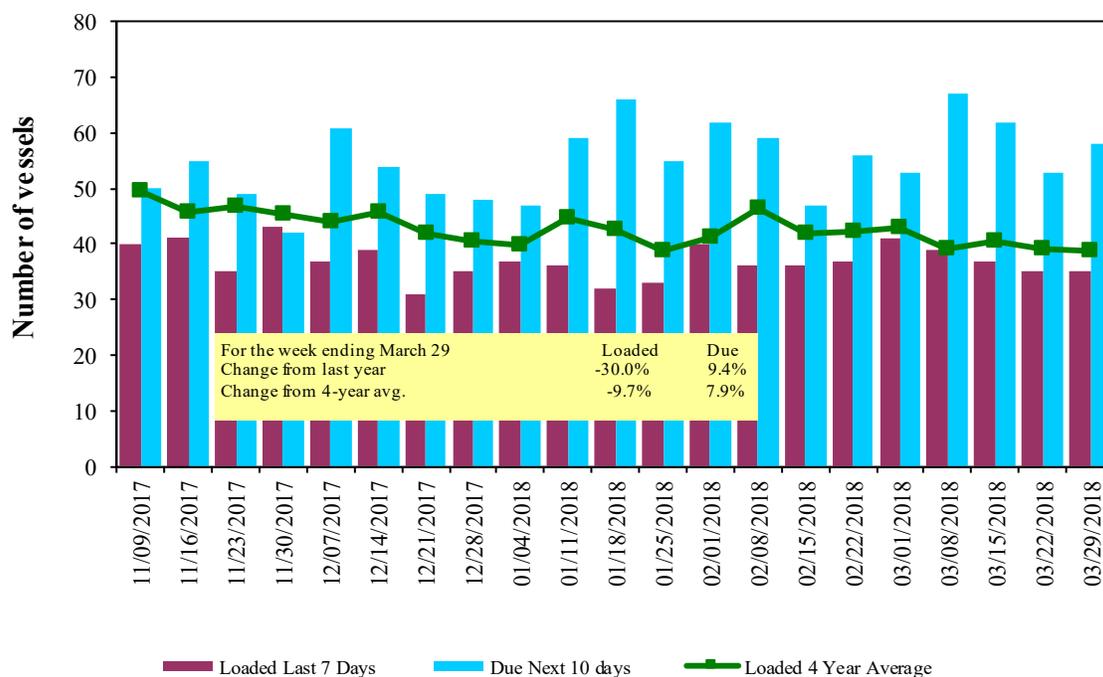
Weekly Port Region Grain Ocean Vessel Activity (number of vessels)

Date	Gulf			Pacific Northwest
	In port	Loaded 7-days	Due next 10-days	In port
3/29/2018	52	35	58	22
3/22/2018	54	35	53	23
2017 range	(25..66)	(28..54)	(37..87)	(5..44)
2017 avg	46	38	56	20

Source: Transportation & Marketing Programs/AMS/USDA

Figure 16

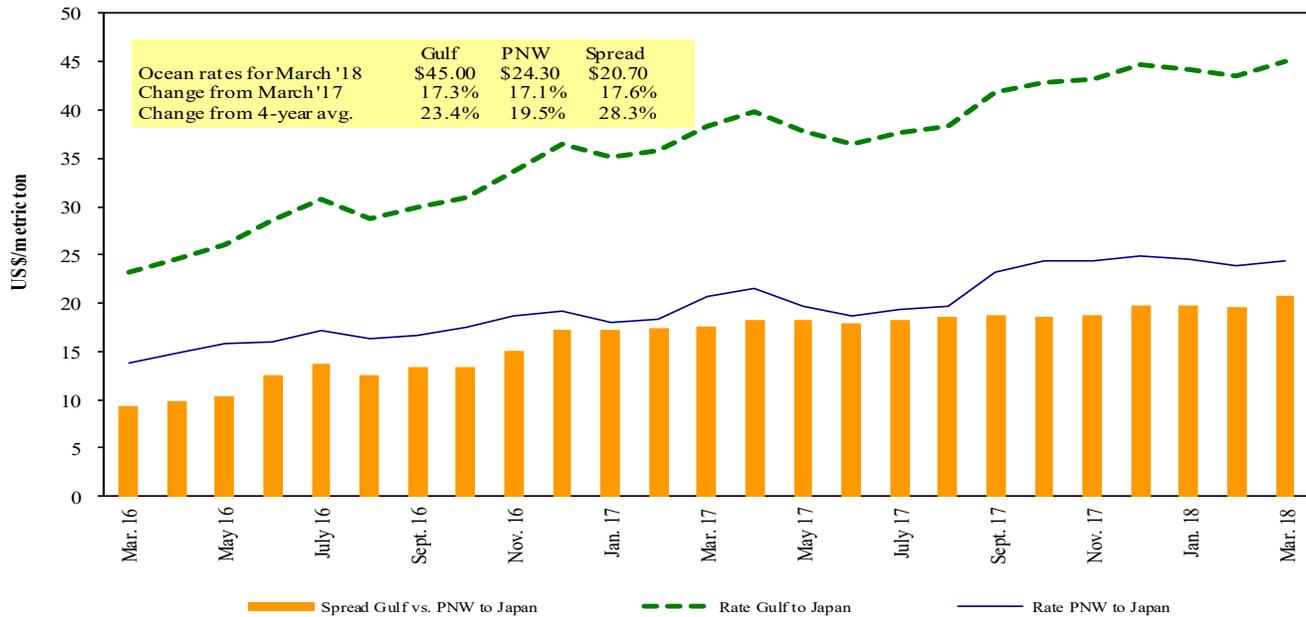
U.S. Gulf Vessel Loading Activity



Source: Transportation & Marketing Programs/AMS/USDA
¹U.S. Gulf includes Mississippi, Texas, and East Gulf

Figure 17

Grain Vessel Rates, U.S. to Japan



Data Source: O'Neil Commodity Consulting

Table 18

Ocean Freight Rates For Selected Shipments, Week Ending 03/31/2018

Export region	Import region	Grain types	Loading date	Volume loads (metric tons)	Freight rate (US \$/metric ton)
U.S. Gulf	China	Heavy Grain	Jan 1/10	60,000	45.50
U.S. Gulf	Djibouti	Sorghum	Apr 16/26	18,200	69.87*
U.S. Gulf	Rotterdam	Heavy Grain	Apr 17/30	65,000	21.00
U.S. Gulf	Somalia	Sorghum	Apr 16/26	40,000	130.77*
PNW	Bangladesh	Wheat	Apr 6/16	43,500	46.61*
Brazil	China	Heavy Grain	May 3/31	60,000	35.50
Brazil	China	Heavy Grain	Apr 3/12	66,000	36.25
Brazil	China	Heavy Grain	Mar 12/21	66,000	32.00
Brazil	China	Heavy Grain	Mar 1/10	66,000	30.00
EC S. America	China	Heavy Grain	Mar 15/24	60,000	33.50
France	Morocco	Heavy Grain	Jan 6/12	30,000	15.00
Portugal	China	Heavy Grain	Feb 10	65,000	38.00

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

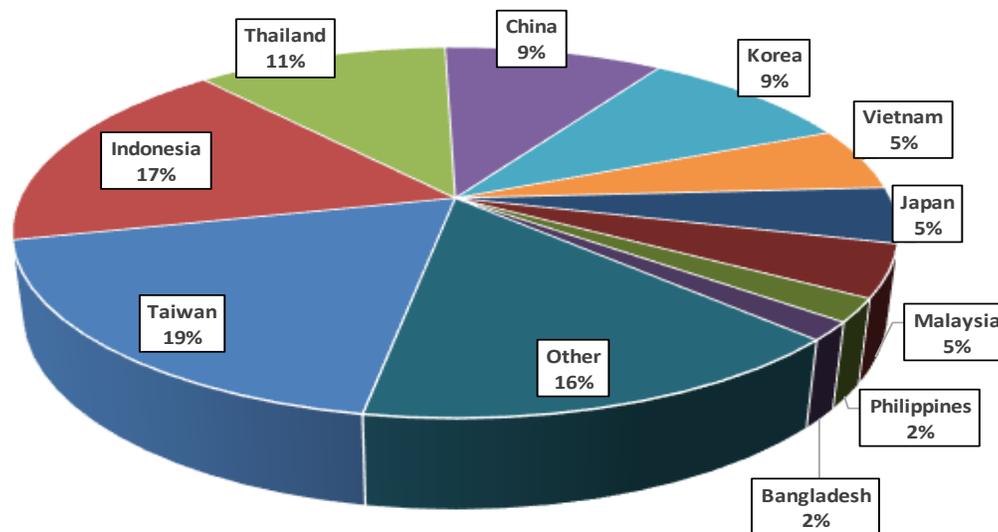
*50 percent of food aid from the United States is required to be shipped on U.S.-flag vessels.

Source: Maritime Research Inc. (www.maritime-research.com)

In 2017, containers were used to transport 7 percent of total U.S. waterborne grain exports. Approximately 62 percent of U.S. waterborne grain exports in 2017 went to Asia, of which 10 percent were moved in containers. Approximately 93 percent of U.S. waterborne containerized grain exports were destined for Asia.

Figure 18

Top 10 Destination Markets for U.S. Containerized Grain Exports, January–December 2017

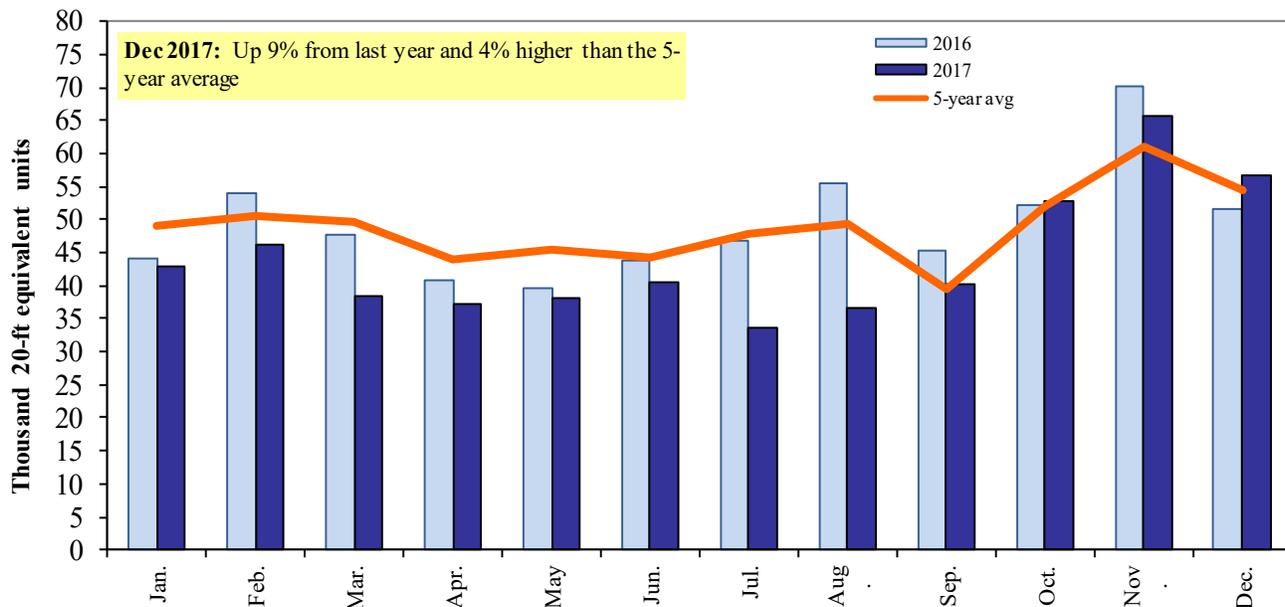


Service (PIERS) data

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

Figure 19

Monthly Shipments of Containerized Grain to Asia



Source: USDA/Agricultural Marketing Service/Transportation Services Division analysis of Port Import Export Reporting Service (PIERS) data.

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

Contacts and Links

Coordinators

Surajudeen (Deen) Olowolayemo	surajudeen.olowolayemo@ams.usda.gov	(202) 720 - 0119
Pierre Bahizi	pierre.bahizi@ams.usda.gov	(202) 690 - 0992
Adam Sparger	adam.sparger@ams.usda.gov	(202) 205 - 8701

Weekly Highlight Editors

Surajudeen (Deen) Olowolayemo	surajudeen.olowolayemo@ams.usda.gov	(202) 720 - 0119
April Taylor	april.taylor@ams.usda.gov	(202) 720 - 7880
Nicholas Marathon	nick.marathon@ams.usda.gov	(202) 690 - 4430

Grain Transportation Indicators

Surajudeen (Deen) Olowolayemo	surajudeen.olowolayemo@ams.usda.gov	(202) 720 - 0119
-------------------------------	--	------------------

Rail Transportation

Adam Sparger	adam.sparger@ams.usda.gov	(202) 205 - 8701
Johnny Hill	johnny.hill@ams.usda.gov	(202) 690 - 3295
Jesse Gastelle	jesse.gastelle@ams.usda.gov	(202) 690 - 1144
Peter Caffarelli	petera.caffarelli@ams.usda.gov	(202) 690 - 3244

Barge Transportation

Nicholas Marathon	nick.marathon@ams.usda.gov	(202) 690 - 4430
April Taylor	april.taylor@ams.usda.gov	(202) 720 - 7880
Matt Chang	matt.chang@ams.usda.gov	(202) 720 - 0299

Truck Transportation

April Taylor	april.taylor@ams.usda.gov	(202) 720 - 7880
Sergio Sotelo	sergioa.sotelo@ams.usda.gov	(202) 756 - 2577

Grain Exports

Johnny Hill	johnny.hill@ams.usda.gov	(202) 690 - 3295
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Ocean Transportation

Surajudeen (Deen) Olowolayemo (Freight rates and vessels)	surajudeen.olowolayemo@ams.usda.gov	(202) 720 - 0119
April Taylor (Container movements)	april.taylor@ams.usda.gov	(202) 720 - 7880

Subscription Information: Send relevant information to GTRContactUs@ams.usda.gov for an electronic copy (*printed copies are also available upon request*).

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