



Grain Transportation Report

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

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February 21, 2019

WEEKLY HIGHLIGHTS

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The next release is February 28, 2019 USDA Agricultural Outlook to Examine Agricultural Transportation Issues

On February 21-22, USDA will hold its 95th Annual Agricultural Outlook Forum, in Arlington, VA. The Forum will include a session on February 22, entitled "Issues in Ag Transportation: Linking Producers to Consumers", which will examine various challenges that farmers face getting their products to market. Topics will include: challenges in gain rail; track and rail infrastructure investments; truck driver shortages; electronic logging device and hours of service issues for truck drivers; highway funding issues; barge supply outlook; conditions of locks and dams; and funding issues for rehabilitation, modernization, and maintenance of the river system. Under Secretary for Marketing and Regulatory Programs, Greg Ibach, will be the moderator. The program guide for the complete forum can be found here.

Highwater and Ice Continue to Slow Barge Traffic

According to American Commercial Barge Line, as of February 20, flood conditions have restricted barge traffic at several locks on the Ohio River to operating only during daylight hours. With more rain forecasted for the Ohio River Valley, barge conditions will likely further deteriorate for the rest of February. Ice accumulations have slowed barge traffic on the Illinois River. However, weather forecasters are expecting warmer temperatures later next week, which may improve navigation conditions. Highwater on the lower Mississippi River has restricted barge traffic to daylight hours only through Memphis, Vicksburg, and Baton Rouge. GTR Table 10 shows calendar year-to-date barge movements, on the locking portions of the Mississippi, Ohio, and Arkansas River, were 3.1 million tons, 11 percent lower than last year.

Grain Inspections Down but Remain Steady

For the week ending February 14, **total inspections of grain** (corn, wheat, and soybeans) for export from all major U.S. export regions reached 2.39 million metric tons (mmt), which is down 3 percent from the previous week, unchanged from last year, and down 11 percent from the 3-year average. Total corn inspections, destined primarily to Asia and Latin America, jumped 25 percent from week to week. The increase in corn inspections, however, could not offset the 37 percent drop in inspections of wheat. Mississippi Gulf grain inspections increased 1 percent from the previous week, but Pacific Northwest (PNW) inspections decreased 15 percent for the same time period. During the last four weeks, inspections of grain are 10 percent below last year and the 3-year average.

Snapshots by Sector

Rail

U.S. Class I railroads originated 20,720 grain carloads for the week ending February 9, down 4 percent from the previous week, up 9 percent from last year, and up 1 percent from the 3-year average.

Average February shuttle **secondary railcar** bids/offers per car were \$1,217 above tariff for the week ending February 14, up \$750 from last week. Average non-shuttle secondary railcar bids/offers per car were \$250 above tariff, up \$181 from last week. There were no shuttle or non-shuttle bids/offers this week last year.

Barge

For the week ending February 16, **barge grain movements** totaled 379,048 tons, 8 percent lower than the previous week and down 34 percent from the same period last year.

For the week ending February 16, 219 grain barges **moved down river**, 34 barges less than the previous week. There were 744 grain barges **unloaded in New Orleans**, 21 percent more than the previous week.

Ocean

For the week ending February 14, 38 **ocean-going grain vessels** were loaded in the Gulf, 6 percent more than the same period last year. Sixty-nine vessels are expected to be loaded within the next 10 days, 47 percent more than the same period last year.

For the week ending February 14, the ocean freight rate for shipping bulk grain, from the Gulf to Japan, was \$39.00 per metric ton, 3 percent more than the previous week. The cost of shipping, from the PNW to Japan, was \$22.00 per metric ton, 2 percent more than the previous week.

Fuel

For the week ending February 18, the **U.S. average diesel fuel price** increased 4 cents, from the previous week, to \$3.006 per gallon, 2.1 cents below the same week last year.

Feature Article/Calendar

December 2018 Grain Stocks and Transportation Demand

Grain stocks were at record levels near the end of 2018. Corn stocks were down 5 percent from 2017, but soybean and wheat stocks were up 18 and 7 percent, respectively.

Grain storage is an important link between agricultural production and transportation demand. During the summer (wheat, barley, and oats) and fall (corn, soybeans, and sorghum) harvests, grain fills up storage bins from which it is sold throughout the remainder of the year, generating transportation demand.

In this article, we look at 2018 quarterly grain stocks snapshots to understand recent trends in transportation demand and to glean insight about transportation demand to come in the first half of 2019.

A Look Back: September through November 2018

USDA's National Agricultural Statistics Service (NASS) provides data on the inventory of grain in storage (i.e., stocks) as of four points during the year: March 1, June 1, September 1, and December 1. Since these dates match quarterly periods in the crop marketing year, the data can be analyzed period-to-period to better understand grain flows in and out of storage.

The United States held sizeable grain stocks in early September, and subsequently harvested the third largest corn crop and a record volume of soybeans. Both contributed to substantial supplies of grain in the fall, to enter either storage or shipping channels (October 11, 2018 Grain Transportation Report (GTR)).

NASS' <u>December 1, 2018 stocks data</u> released earlier this month suggest aggregate grain movements from September through the end of November 2018 were on par with previous years. More specifically, grain "disappearance"—the difference between fall grain supplies and grain stocks as of December 1, 2018—was 6.4 billion bushels (bbu), down 1 percent from last year and the prior 3-year average.* Earlier research (<u>November 1, 2018 *GTR*</u>) highlighted a shift in movements by commodity, particularly for corn and soybeans. According to NASS "disappearance" data, this different pattern for corn and soybeans continued. While wheat movements over this three-month span remained relatively unchanged (down 1 percent from a year ago), corn movements were up 6 percent and soybean movements were down 20 percent.

Compared to soybeans, corn has a much higher ratio of domestic to export use. Therefore, the change in the crop mix of disappearance from soybeans to corn tended to increase domestic movements and, in turn, increase truck movements. Corn and wheat inspections for export in the fourth quarter of 2018 (Oct-Dec) were up 229 and 46 million bushels (mbu) from the previous year, respectively. At the same time, soybean inspections were down 424 mbu. Total grain inspections were down 187 mbu. Unchanged disappearance, with lower exports, implies an increase in domestic movements.

While truck movements of grain are not directly observable due to data limitations (especially at the weekly or quarterly frequency required in this analysis), they may be inferred from looking at rail and barge shipments. Grain tonnages down the Mississippi River in September, October, and November were 12 percent lower than last year and 16 percent lower than the prior 3-year average. Calendar year fourth quarter rail carloads were down slightly, as well. Since total disappearance is about even, it suggests the modal movement of grain by truck expanded its share.

A Look at the Present and Outlook

December 1 grain stocks totaled 18.2 bbu in 2018. The record year-end grain stocks will, all else equal, serve to strengthen transportation demand throughout the first half of 2019 compared to previous years. The timing of demand is difficult to predict, but the share of ending stocks that leave storage by September 1 is relatively

^{*} Note: "fall grain supplies" refers to grain stocks as of September 1, plus post-September grain production, which includes corn, soybeans, and grain sorghum. Commodities in the calculation include corn, soybeans, wheat, barley, oats, and grain sorghum.

consistent at around 70 to 75 percent. It is worth noting that, despite the shift in the commodity mix of disappearance between September and December, corn still represented by far the largest share of December 1 stocks, at about 66 percent, with soybeans and wheat representing 21 and 11 percent, respectively.

The location of grain stocks can shed some light on the geography of transportation demand. By December 1, 2018, the five states with the highest grain stocks were Illinois (2.79 bbu), Iowa (2.71 bbu), Nebraska (1.81 bbu), Minnesota (1.73 bbu), and Indiana (1.19 bbu). The top 5 states by change in December stocks from last year were Minnesota (down 192 mbu), Iowa (down 162 mbu), Ohio (up 147 mbu), Illinois (up 118 mbu), and Indiana (up 101 mbu).

On February 8, USDA released the latest *World Agricultural Supply and Demand Estimates* report for 2018/19 marketing year. Total corn, soybean, and wheat use (which includes food, feed, exports, and other uses) is projected up 66 mbu, down 205 mbu, and up 133 mbu, respectively, from last year—a net decrease of about 6 mbu for the three commodities. Corn, soybean, and wheat exports are projected to be up 12 mbu, down 254 mbu, and up 99 mbu, respectively, from a year ago, which would translate into fewer grain exports on net.

In summary, the level of grain transportation demand may be similar to last year (in the aggregate) but differ with respect to domestic and export shares. <u>PeterA.Caffarelli@ams.usda.gov</u>, <u>Jesse.Gastelle@ams.usda.gov</u>

Grain Transportation Indicators

Table 1 **Grain Transport Cost Indicators**¹

	Truck	Ra	il	Barge	0	cean
For the week ending		Unit Train	Shuttle		Gulf	Pacific
02/20/19	202	295	272	292	174	156
02/13/19	199	285	240	299	170	152

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 Program/AMS/USDA

Table 2

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

Commodity	OriginDestination	2/15/2019	2/8/2019
Corn	ILGulf	-0.81	-0.79
Corn	NEGulf	-0.89	-0.89
Soybean	IAGulf	-1.20	-1.18
HRW	KSGulf	-1.62	-1.57
HRS	NDPortland	-1.79	-1.74

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

Source: Transportation & Marketing Program/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.

FUTURES:

Kansas City	White	Mar	4,7300	4,9100	4,7850		
Minneapolis	White	Mar	5,7100	5,6500	6,0323		
Minneapolis	White	Mar	5,7100	5,1500	5,1500	6,0323	
Minneapolis	White	Mar	5,7100	5,1500	5,1500	6,0323	
Minneapolis	White	Mar	5,7100	5,1500	5,1500	6,0323	
Minneapolis	White	Mar	5,7100	5,1500	5,1500	6,0323	
Minneapolis	White	Mar	5,7100	5,1500	5,1500	4,7850	
Minneapolis	White	Mar	5,7100	5,1500	5,1500	5,1500	4,775
Chicago	Curin	Mar	5,7000	3,7000	3,7000	3,7000	3,7000
HRW	6,58	SWW	6,57				
HRW	6,58	SWW	6,57				
HRS	6,19	DUR	4,83	MD	MRS	NO	
Offend Lakes-Tolecto	Sybin	8,65					
MIN	Mar	1,7000	4,7850				
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
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Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	Mar	1,7000	4,7850			
Minneapolis	White	1,7000	4,7850				
Minneapolis	White	1,7000					

Pool Return Outlook

Gulf-Louisiana

Rail Transportation

Table 3

Rail Deliveries to Port (carloads)¹

	Mississippi		Pacific	Atlantic &			Cross-Border
For the Week Ending	Gulf	Texas Gulf	Northwest	East Gulf	Total	Week ending	Mexico ³
2/13/2019 ^p	649	1,692	4,417	401	7,159	2/9/2019	2,132
2/06/2019 ^r	737	1,434	5,271	385	7,827	2/2/2019	2,744
2019 YTD ^r	3,512	6,933	36,102	3,139	49,686	2019 YTD	15,723
2018 YTD ^r	3,874	10,921	42,955	1,859	59,609	2018 YTD	12,070
2019 YTD as % of 2018 YTD	91	63	84	169	83	% change YTD	130
Last 4 weeks as % of 2018 ²	109	69	78	141	80	Last 4wks % 2018	132
Last 4 weeks as % of 4-year avg. ²	83	78	79	66	78	Last 4wks % 4 yr	130
Total 2018	22,118	46,532	310,449	21,432	400,531	Total 2018	129,116
Total 2017	28,796	75,543	287,267	21,312	412,918	Total 2017	119,661

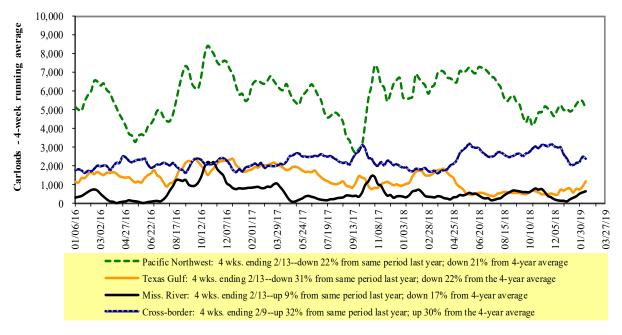
¹ Data is incomplete as it is voluntarily provided

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

Source: Transportation & Marketing Program/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 Program/AMS/USDA

² Compared with same 4-weeks in 2018 and prior 4-year average.

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

Table 4

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

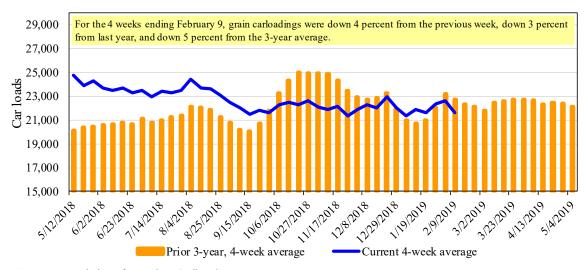
For the week ending:	Ea	ast		West		U.S. total	Car	nada
2/9/2019	CSXT	NS	BNSF	KCS	UP	U.S. total	CN	CP
This week	2,118	2,669	9,814	899	5,220	20,720	3,771	3,317
This week last year	1,112	2,356	10,270	630	4,667	19,035	3,000	4,254
2019 YTD	11,446	15,974	67,180	6,133	31,031	131,764	22,907	23,995
2018 YTD	10,767	14,542	69,520	5,867	30,504	131,200	20,720	25,343
2019 YTD as % of 2018 YTD	106	110	97	105	102	100	111	95
Last 4 weeks as % of 2018*	107	102	92	115	97	97	106	92
Last 4 weeks as % of 3-yr avg.**	96	90	98	106	90	95	104	95
Total 2018	98,978	133,146	635,458	48,638	267,713	1,183,933	211,954	244,697

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

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

Fo	or the week ending:		<u>Delivery period</u>							
	2/14/2019	Feb-19	Feb-18	Mar-19	Mar-18	Apr-19	Apr-18	May-19	May-18	
BNSF ³	COT grain units	no offer	n/a	0	0	no bids	0	no bids	0	
BNSF	COT grain single-car ⁵	no offer	n/a	92	84	3	0	2	no bids	
UP ⁴	GCAS/Region 1 GCAS/Region 2	no offer no offer	n/a n/a	no offer no offer	no bids no bids	10 10	no bids no bids	n/a n/a	no offer no offer	

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.

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

Source: Transportation & Marketing Program/AMS/USDA.

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

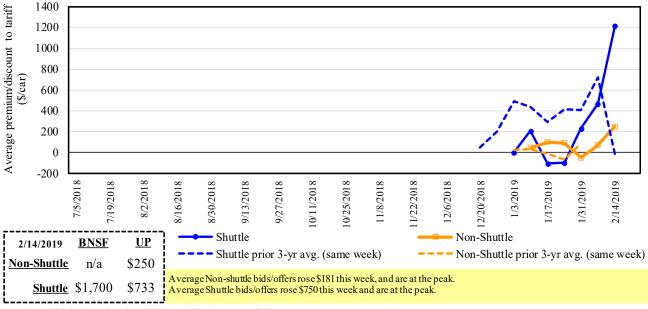
²Average premium/discount to tariff, last auction

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

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.

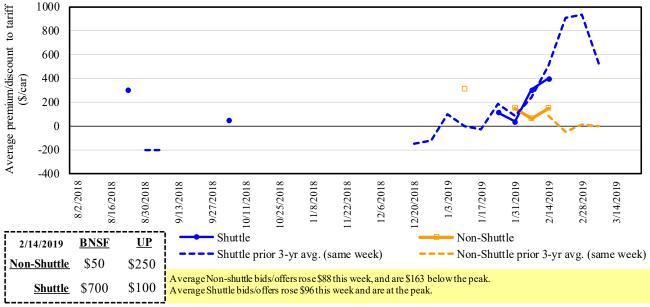
Figure 4
Bids/Offers for Railcars to be Delivered in February 2019, Secondary Market



Non-shuttle bids include unit-train and single-car bids. n/a = not available.

 $Source: \ Transportation \& Marketing Program/AMS/USDA$

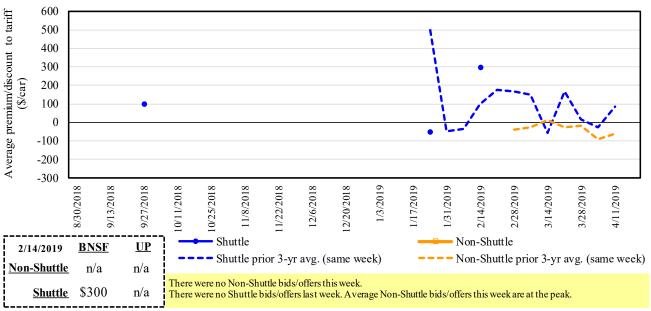
Figure 5
Bids/Offers for Railcars to be Delivered in March 2019, Secondary Market



Non-shuttle bids include unit-train and single-car bids. n/a = not available.

 $Source: \ Transportation \& Marketing Program/AMS/USDA$

Figure 6 Bids/Offers for Railcars to be Delivered in April 2019, Secondary Market



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

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

	For the week ending:	()		De	livery period		
	2/14/2019	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19
	BNSF-GF	n/a	50	n/a	n/a	n/a	n/a
le	Change from last week	n/a	50	n/a	n/a	n/a	n/a
hutt	Change from same week 2018	n/a	n/a	n/a	n/a	n/a	n/a
No n-shuttle	UP-Pool	250	250	n/a	n/a	n/a	n/a
_	Change from last week	150	125	n/a	n/a	n/a	n/a
	Change from same week 2018	n/a	n/a	n/a	n/a	n/a	n/a
	BNSF-GF	1700	700	300	150	n/a	n/a
	Change from last week	950	167	n/a	n/a	n/a	n/a
Shuttle	Change from same week 2018	n/a	(225)	n/a	n/a	n/a	n/a
Shu	UP-Pool	733	100	n/a	n/a	n/a	n/a
	Change from last week	550	25	n/a	n/a	n/a	n/a
	Change from same week 2018	n/a	50	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

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

Source: Transportation and Marketing Program/AMS/USDA

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

			Trter	Fuel	T:00		Percent
February, 2019	Origin region ³	Destination region ³	Tariff	surcharge_	Tariff plus surch	bushel ²	change Y/Y ⁴
Unit train	Origin region	Destination region	rate/car	per car	metric ton	Dustici	1/1
Wheat	Wichita, KS	St. Louis, MO	\$3,983	\$106	\$40.61	\$1.11	3
Wilcat	Grand Forks, ND	Duluth-Superior, MN		\$100	\$42.38	\$1.15	3
		=	\$4,268				
	Wichita, KS	Los Angeles, CA	\$7,175	\$0 \$197	\$71.25	\$1.94	2
	Wichita, KS	New Orleans, LA	\$4,540	\$187	\$46.94	\$1.28	
	Sioux Falls, SD	Galveston-Houston, TX	\$6,911	\$0	\$68.63	\$1.87	2
	Northwest KS	Galveston-Houston, TX	\$4,816	\$205	\$49.86	\$1.36	1
	Amarillo, TX	Los Angeles, CA	\$5,121	\$285	\$53.68	\$1.46	3
Corn	Champaign-Urbana, IL	New Orleans, LA	\$4,000	\$211	\$41.82	\$1.06	3
	Toledo, OH	Raleigh, NC	\$6,581	\$0	\$65.35	\$1.66	4
	Des Moines, IA	Davenport, IA	\$2,258	\$45	\$22.87	\$0.58	0
	Indianapolis, IN	Atlanta, GA	\$5,646	\$0	\$56.07	\$1.42	4
	Indianapolis, IN	Knoxville, TN	\$4,704	\$0	\$46.71	\$1.19	4
	Des Moines, IA	Little Rock, AR	\$3,609	\$131	\$37.14	\$0.94	1
	Des Moines, IA	Los Angeles, CA	\$5,327	\$383	\$56.70	\$1.44	1
Soybeans	Minneapolis, MN	New Orleans, LA	\$4,131	\$208	\$43.09	\$1.17	15
	Toledo, OH	Huntsville, AL	\$5,459	\$0	\$54.21	\$1.48	3
	Indianapolis, IN	Raleigh, NC	\$6,698	\$0	\$66.51	\$1.81	4
	Indianapolis, IN	Huntsville, AL	\$4,937	\$0	\$49.03	\$1.33	4
	Champaign-Urbana, IL	New Orleans, LA	\$4,745	\$211	\$49.22	\$1.34	1
Shuttle Train							
Wheat	Great Falls, MT	Portland, OR	\$4,078	\$0	\$40.50	\$1.10	3
	Wichita, KS	Galveston-Houston, TX	\$4,296	\$0	\$42.66	\$1.16	3
	Chicago, IL	Albany, NY	\$5,896	\$0	\$58.55	\$1.59	4
	Grand Forks, ND	Portland, OR	\$5,736	\$0	\$56.96	\$1.55	2
	Grand Forks, ND	Galveston-Houston, TX	\$6,056	\$0	\$60.14	\$1.64	2
	Northwest KS	Portland, OR	\$5,912	\$336	\$62.04	\$1.69	3
Corn	Minneapolis, MN	Portland, OR	\$5,180	\$0	\$51.44	\$1.31	4
	Sioux Falls, SD	Tacoma, WA	\$5,140	\$0	\$51.04	\$1.30	4
	Champaign-Urbana, IL	New Orleans, LA	\$3,800	\$211	\$39.83	\$1.01	3
	Lincoln, NE	Galveston-Houston, TX	\$3,880	\$0	\$38.53	\$0.98	5
	Des Moines, IA	Amarillo, TX	\$4,060	\$165	\$41.96	\$1.07	3
	Minneapolis, MN	Tacoma, WA	\$5,180	\$0	\$51.44	\$1.31	4
	Council Bluffs, IA	Stockton, CA	\$5,000	\$0	\$49.65	\$1.26	4
Soybeans	Sioux Falls, SD	Tacoma, WA	\$5,750	\$0	\$57.10	\$1.55	3
	Minneapolis, MN	Portland, OR	\$5,800	\$0	\$57.60	\$1.57	3
	Fargo, ND	Tacoma, WA	\$5,650	\$0	\$56.11	\$1.53	3
	Council Bluffs, IA	New Orleans, LA	\$4,775	\$244	\$49.84	\$1.36	1
	Toledo, OH	Huntsville, AL	\$4,634	\$0	\$46.02	\$1.25	6
	Grand Island, NE	Portland, OR	\$5,710	\$344	\$60.12	\$1.64	1

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

⁷⁵⁻¹²⁰ cars that meet railroad efficiency requirements.

²Approximate load per car = 111 short tons (100.7 metric tons): corn 56 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

Sources: www.bnsf.com, www.cn.ca, www.csx.com, www.up.com

Table 8

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

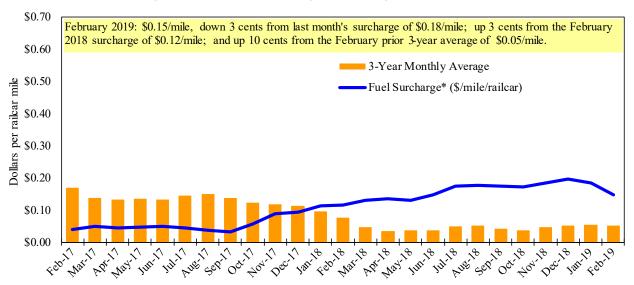
	: February,	2019		Fuel			Percent
	Origin		Tariff	surcharge	Tariff plus surcl	narge per:	change ⁴
Commodity	state	Destination region	rate/car ¹	per car ²	metric ton ³	bushel ³	Y/Y
Wheat	MT	Chihuahua, CI	\$7,284	\$0	\$74.43	\$2.02	-2
	OK	Cuautitlan, EM	\$6,743	\$146	\$70.39	\$1.91	2
	KS	Guadalajara, JA	\$7,371	\$403	\$79.43	\$2.16	3
	TX	Salinas Victoria, NL	\$4,329	\$89	\$45.14	\$1.23	1
Corn	IA	Guadalajara, JA	\$8,528	\$362	\$90.83	\$2.31	4
	SD	Celaya, GJ	\$7,880	\$0	\$80.51	\$2.04	2
	NE	Queretaro, QA	\$8,207	\$304	\$86.96	\$2.21	3
	SD	Salinas Victoria, NL	\$6,905	\$0	\$70.55	\$1.79	2
	MO	Tlalnepantla, EM	\$7,573	\$297	\$80.41	\$2.04	3
	SD	Torreon, CU	\$7,480	\$0	\$76.43	\$1.94	2
Soybeans	MO	Bojay (Tula), HG	\$8,284	\$335	\$88.07	\$2.39	3
	NE	Guadalajara, JA	\$8,842	\$363	\$94.05	\$2.56	3
	IA	El Castillo, JA	\$9,110	\$0	\$93.08	\$2.53	2
	KS	Torreon, CU	\$7,714	\$266	\$81.53	\$2.22	4
Sorghum	NE	Celaya, GJ	\$7,527	\$332	\$80.30	\$2.04	4
	KS	Queretaro, QA	\$8,000	\$183	\$83.61	\$2.12	3
	NE	Salinas Victoria, NL	\$6,633	\$147	\$69.27	\$1.76	3
	NE	Torreon, CU	\$6,962	\$253	\$73.72	\$1.87	3

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.

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.

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

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

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

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

Barge Transportation

Figure 8

Illinois River Barge Freight Rate^{1,2}



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

Source: Transportation & Marketing Program/AMS/USDA

Table 9

				Lower				
		Twin Cities M	Mid- Aississippi	Illinois River	St. Louis	Cincinnati	Lower Ohio	Cairo- Memphis
Rate ¹	2/19/2019	-	-	525	442	480	492	408
	2/12/2019	-	-	538	438	538	538	400
\$/ton	2/19/2019	-	-	24.36	17.64	22.51	19.88	12.81
	2/12/2019	-	-	24.96	17.48	25.23	21.74	12.56
Curren	t week % change	from the san	ne week:					
	Last year	-	-	38	51	48	51	86
	3-year avg. ²	-	-	65	92	83	85	111
Rate ¹	March	-	513	505	392	425	425	367
	May	450	408	407	322	375	375	297

 $^{^1}$ Rate = percent of 1976 tariff benchmark index (1976 = 100 percent); 2 4-week moving average; ton = 2,000 pounds; "-" n/a due to closure Source: Transportation & Marketing Programs/AMS/USDA

Figure 9 Benchmark tariff rates

Calculating barge rate per ton:

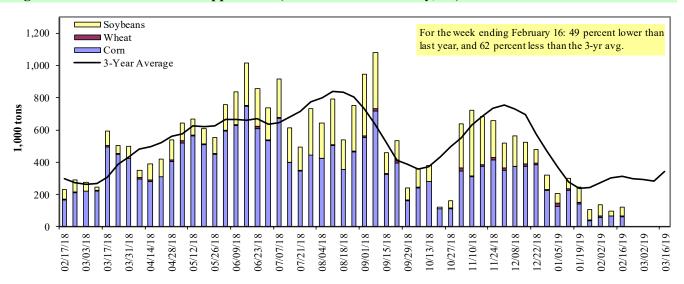
(Rate * 1976 tariff benchmark rate per ton)/100

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



Figure 10

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



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

Source: U.S. Army Corps of Engineers

Table 10 **Barge Grain Movements (1,000 tons)**

For the week ending 02/16/2019	Corn	Wheat	Soybeans	Other	Total
Mississippi River					
Rock Island, IL (L15)	0	0	0	0	0
Winfield, MO (L25)	6	0	11	0	17
Alton, IL (L26)	62	6	55	0	124
Granite City, IL (L27)	61	6	52	0	119
Illinois River (L8)	54	0	39	0	93
Ohio River (OLMSTED)	106	13	129	0	247
Arkansas River (L1)	0	3	10	0	13
Weekly total - 2019	167	22	191	0	379
Weekly total - 2018	297	34	237	4	571
2019 YTD ¹	1,362	257	1,490	9	3,117
2018 YTD ¹	1,473	178	1,850	23	3,524
2019 as % of 2018 YTD	92	144	81	38	88
Last 4 weeks as % of 2018 ²	55	117	66	30	63
Total 2018	23,349	1,674	12,819	133	37,975

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

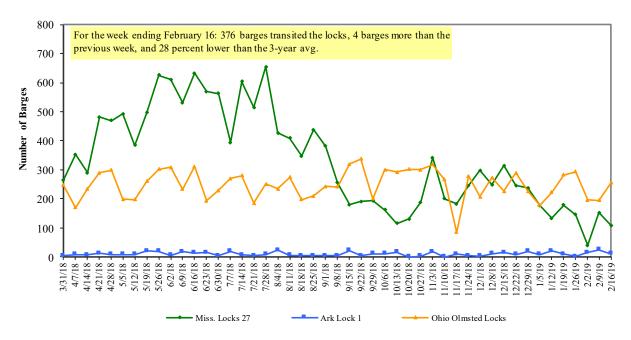
Note: 1. Total may not add exactly, due to rounding.

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

Source: U.S. Army Corps of Engineers

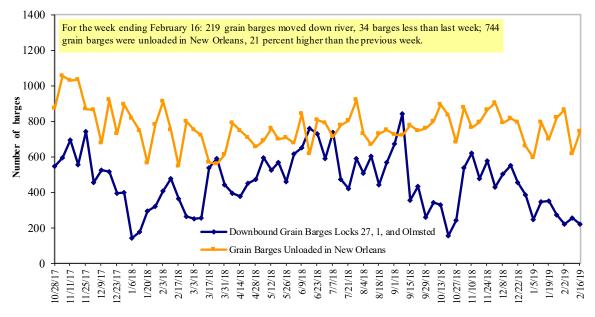
² As a percent of same period in 2018.

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



Source: U.S. Army Corps of Engineers

Figure 12 **Grain Barges for Export in New Orleans Region**



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

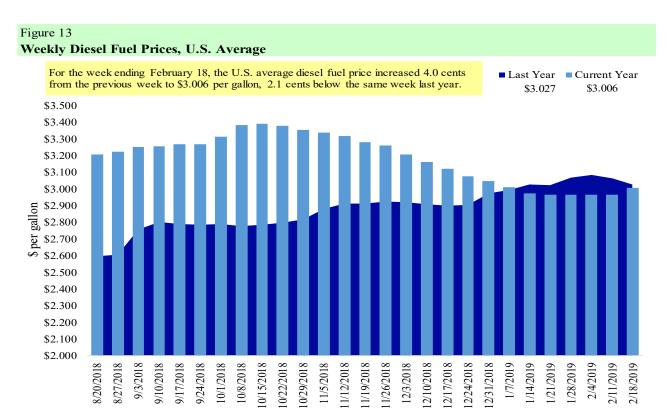
Table 11

Retail on-Highway Diesel Prices, Week Ending 2/18/2019 (US \$/gallon)

	,		Change	from
Region	Location	Price	Week ago	Year ago
I	East Coast	3.073	0.042	-0.009
	New England	3.165	0.004	0.036
	Central Atlantic	3.256	0.031	-0.018
	Lower Atlantic	2.927	0.055	-0.012
II	Midwest	2.904	0.055	-0.066
III	Gulf Coast	2.809	0.033	-0.009
IV	Rocky Mountain	2.887	0.017	-0.066
V	West Coast	3.458	0.023	0.059
	West Coast less California	3.104	0.020	0.032
	California	3.739	0.025	0.081
Total	U.S.	3.006	0.040	-0.021

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

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



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)

•	•	- (=,000	Whe	at			Corn	Soybe ans	Total
For the week ending	HRW	SRW	HRS	SWW	DUR	All wheat			
Export Balances 1									
2/07/2019*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
This week year ago	1,797	689	1,423	933	57	4,899	20,359	8,773	34,031
Cumulative exports-marketing year ²									
2018/19 YTD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2017/18 YTD	6,737	1,456	4,098	3,653	272	16,216	15,637	34,754	36,050
YTD 2018/19 as % of 2017/18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Last 4 wks as % of same period 2017/18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2017/18 Total	9,150	2,343	5,689	4,854	384	22,419	57,209	56,214	135,842
2016/17 Total	11,096	2,285	7,923	4,254	484	26,042	41,864	51,156	119,062

¹ Current unshipped (outstanding) export sales to date

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 Importers**¹ of U.S. Corn

For the week ending 2/07/2019	Total Commitments ²		% change	Exports ³
	2018/19	2017/18	current MY	3-year avg
	Current MY	Last MY	from last MY	2015-2017
	- 1,000 mt -			
Mexico	n/a*	10,596	n/a	13,691
Japan	n/a	5,955	n/a	11,247
Korea	n/a	1,954	n/a	4,754
Colombia	n/a	2,679	n/a	4,678
Peru	n/a	1,975	n/a	2,975
Top 5 Importers	n/a	23,159	n/a	37,344
Total US corn export sales	n/a	35,966	n/a	53,184
% of Projected	n/a	69%		
Change from prior week ²	n/a	1,975		
Top 5 importers' share of U.S. corn				
export sales	n/a	64%		70%
USDA forecast, February 2019	62,341	52,163	n/a	
Corn Use for Ethanol USDA				
forecast, February 2019	141,605	140,335	n/a	

⁽n) indicates negative number.

http://www.fas.usda.gov/esrquery/. Total commitments change (net sales) from prior week could include revisions from previous week's outstanding sales or accumulated sales

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

^{*} Please note tha "N/A" notates that the data for this table is not current for this week due to the federal shutdown in December

¹Based on FAS Marketing Year Ranking Reports for 2017/18 - www.fas.usda.gov; Marketing year (MY) = Sep 1 - Aug 31.

²Cumulative Exports (shipped) + Outstanding Sales (unshipped), FAS Weekly Export Sales Report, or Export Sales Query-

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

^{*}n/a indicates a missing value due to the recent partial federal government shutdown

Table 14

Top 5 Importers¹ of U.S. Soybeans

For the week ending 2/07/2019	Total Commitments²		% change	Exports ³
	2018/19	2017/18	current MY	3-yr avg.
	Current MY	Last MY	from last MY	2015-2017
	- 1,	000 mt -		- 1,000 mt -
China	n/a*	26,563	n/a	31,228
Mexico	n/a	2,791	n/a	3,716
Indonesia	n/a	1,226	n/a	2,250
Japan	n/a	1,451	n/a	2,145
Netherlands	n/a	916	n/a	2,209
Top 5 importers	n/a	32,947	n/a	41,549
Total US soybean export sales	n/a	44,823	n/a	55,113
% of Projected	n/a	78%		
Change from prior week ²	n/a	561		
Top 5 importers' share of U.S.				
soybean export sales	n/a	74%		75%
USDA forecast, February, 2019	51,090	57,221	n/a	

⁽n) indicates negative number.

Table 15

Top 10 Importers¹ of All U.S. Wheat

For the week ending 2/07/2019	Total Co	ommitments ²	% change	Exports ³
	2018/19	2017/18	current MY	3-yr avg
	Current MY	Last MY	from last MY	2015-2017
	- 1,000	mt -		- 1,000 mt -
Mexico	n/a*	2,660	n/a	2,781
Japan	n/a	2,494	n/a	2,649
Philippines	n/a	2,272	n/a	2,441
Korea	n/a	1,314	n/a	1,257
Nigeria	n/a	1,051	n/a	1,254
Indonesia	n/a	1,163	n/a	1,076
Taiwan	n/a	1,008	n/a	1,066
China	n/a	890	n/a	944
Colombia	n/a	558	n/a	714
Thailand	n/a	630	n/a	618
Top 10 importers	n/a	14,040	n/a	14,800
Total US wheat export sales	n/a	21,115	n/a	22,869
% of Projected	n/a	82%		
Change from prior week ²	n/a	311		
Top 10 importers' share of U.S.				
wheat export sales	n/a	66%		65%
USDA forecast, February 2019	27,248	25,886	n/a	_

⁽n) indicates negative number.

¹Based on FAS Marketing Year Ranking Reports for 2017/18 - www.fas.usda.gov; Marketing year (MY) = Sep 1 - Aug 31.

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

 $^{^3\} FAS\ M\ arketing\ Year\ Final\ Reports-www.fas.usda.gov/export-sales/my\ fi_rpt.htm.\ \ (Carry\ over\ plus\ Accumulated\ Exports)$

^{*}n/a indicates a missing value due to the recent partial federal government shutdown

Based on FAS Marketing Year Ranking Reports for 2017/18 - 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 sales.

 $^{^3}$ FAS Marketing Year Final Reports - www.fas.usda.gov/export-sales/myfi_rpt.htm.

 $[\]ast$ n/a indicates a missing value due to the recent partial federal government shutdown

Table 16
Grain Inspections for Export by U.S. Port Region (1,000 metric tons)

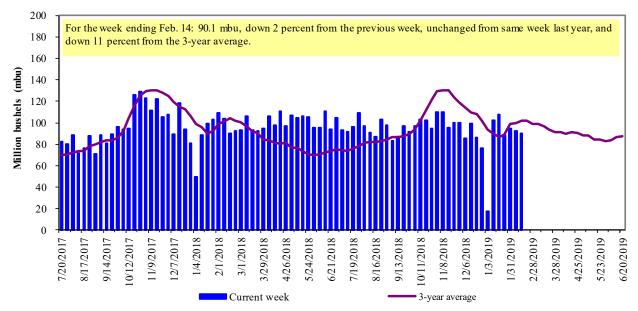
	For the Week Ending	Previous	Current Week			2019 YTD as	Last 4-we	eeks as % of:	
Port Regions	02/14/19	Week*	as % of Previous	2019 YTD*	2018 YTD*	% of 2018 YTD	Last Year	Prior 3-yr. avg.	2018 Total*
Pacific Northwest									
Wheat	179	399	45	1,529	1,547	99	92	97	13,315
Corn	242	120	202	1,500	1,638	92	73	117	20,024
Soybeans	211	227	93	1,453	2,290	63	76	63	7,719
Total	632	746	85	4,482	5,475	82	80	86	41,058
Mississippi Gulf				1,102	2,1.2			•	12,100
Wheat	54	66	81	664	562	118	134	132	3,896
Corn	534	480	111	3,360	3,040	111	102	91	33,735
Soybeans	720	747	96	4,444	5,101	87	91	86	28,124
Total	1,308	1,293	101	8,467	8,703	97	98	91	65,755
Texas Gulf	,	,		,	,				,
Wheat	118	111	106	561	655	86	67	96	3,198
Corn	0	30	0	63	63	100	95	70	730
Soybeans	0	0	n/a	0	0	n/a	n/a	0	69
Total	118	141	84	624	718	87	69	91	3,997
Interior									,
Wheat	25	15	160	211	227	93	55	76	1,614
Corn	149	109	137	848	907	93	93	99	8,650
Soybeans	148	138	107	818	729	112	122	129	6,729
Total	322	262	123	1,878	1,864	101	99	109	16,993
Great Lakes									
Wheat	0	0	n/a	21	19	111	90	269	894
Corn	0	0	n/a	0	0	n/a	n/a	n/a	404
Soybeans	0	0	n/a	16	0	n/a	n/a	n/a	1,192
Total	0	0	n/a	38	19	195	90	269	2,491
Atlantic									
Wheat	0	0	n/a	0	0	n/a	n/a	0	69
Corn	0	0	n/a	21	0	n/a	n/a	n/a	138
Soybeans	6	11	57	208	346	60	48	37	2,047
Total	6	11	57	229	346	66	51	38	2,253
U.S. total from port	ts*								
Wheat	376	592	63	2,987	3,010	99	89	102	22,986
Corn	925	738	125	5,793	5,649	103	92	98	63,682
Soybeans	1,085	1,123	97	6,938	8,467	82	88	80	45,879
Total	2,387	2,454	97	15,717	17,125	92	90	90	132,547

^{*}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, 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 2017.

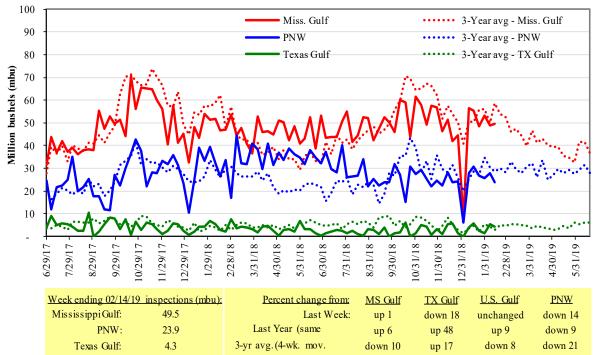
Figure 14
U.S. grain inspected for export (wheat, corn, and soybeans)



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

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)



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

Ocean Transportation

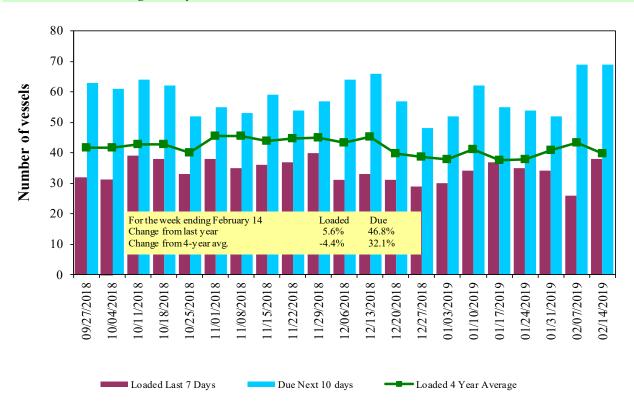
Table 17

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

				Pacific
		Gulf		Northwest
		Loaded	Due next	
Date	In port	7-days	10-days	In port
2/14/2019	35	38	69	25
2/7/2019	46	26	69	20
2018 range	(2388)	(2441)	(3867)	(430)
2018 avg.	40	34	54	17

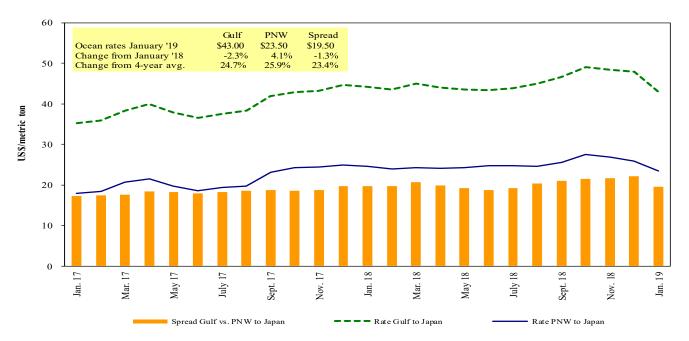
Source: Transportation & Marketing Programs/AMS/USDA

Figure 16
U.S. Gulf Vessel Loading Activity



Source:Transportation & Marketing Program/AM S/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 02/16/2019

		Simplification, week Em		- 7.1	- · · · ·
Export	Import	Grain	Loading	Volume loads	Freight rate
region	region	types	date	(metric tons)	(US\$/metric ton)
U.S. Gulf	Djibouti	Wheat	Dec 27/Jan 7	9,800	113.11*
PNW	Taiwan	Heavy Grain	Sep 15/Oct 31	63,000	25.00
Brazil	China	Heavy Grain	Mar 3/11	63,000	27.50
Brazil	China	Heavy Grain	Feb 26/Mar 4	66,000	24.75
Brazil	China	Heavy Grain	Feb 20/25	65,000	26.00
Brazil	China	Heavy Grain	Feb 13/26	60,000	26.75
Brazil	China	Heavy Grain	Jan 22/30	60,000	29.50
Brazil	China	Heavy Grain	Dec 15/20	60,000	37.50
Brazil	China	Heavy Grain	Dec 1/10	60,000	36.25
Brazil	China	Heavy Grain	Nov 20/30	60,000	38.00
Brazil	China	Heavy Grain	Nov 1/10	60,000	34.00
Brazil	S.Korea	Heavy Grain	Nov 5/10	66,000	43.00

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

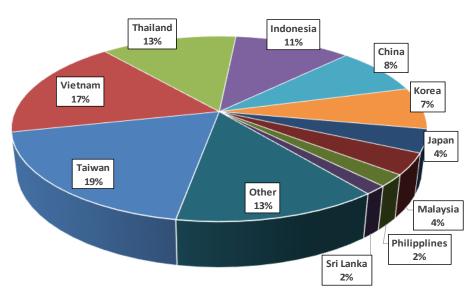
Source: Maritime Research Inc. (www.maritime-research.com)

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

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

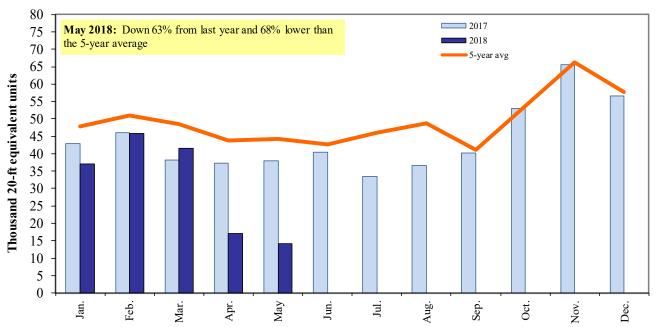
Top 10 Destination Markets for U.S. Containerized Grain Exports, January-May 2018



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, 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 Kuo-Liang (Matt) Chang	surajudeen.olowolayemo@ams.usda.gov matt.chang@ams.usda.gov_	(202) 720 - 0119 (202) 690 - 0992
Weekly Highlight Editors Surajudeen (Deen) Olowolayemo April Taylor Nicholas Marathon	surajudeen.olowolayemo@ams.usda.gov april.taylor@ams.usda.gov nick.marathon@ams.usda.gov	(202) 720 - 0119 (202) 720 - 7880 (202) 690 - 4430
Grain Transportation Indicators Surajudeen (Deen) Olowolayemo	surajudeen.olowolayemo@ams.usda.gov	(202) 720 - 0119
Rail Transportation Johnny Hill Jesse Gastelle Peter Caffarelli	johnny.hill@ams.usda.gov jesse.gastelle@ams.usda.gov petera.caffarelli@ams.usda.gov	(202) 690 - 3295 (202) 690 - 1144 (202) 690 - 3244
Barge Transportation Nicholas Marathon April Taylor Kuo-Liang (Matt) Chang	nick.marathon@ams.usda.gov april.taylor@ams.usda.gov matt.chang@ams.usda.gov	(202) 690 - 4430 (202) 720 - 7880 (202) 720 - 0299
Truck Transportation April Taylor	april.taylor@ams.usda.gov	(202) 720 - 7880
Grain Exports Johnny Hill	johnny.hill@ams.usda.gov	(202) 690 - 3295
Ocean Transportation Surajudeen (Deen) Olowolayemo (Freight rates and vessels) April Taylor (Container movements)	surajudeen.olowolayemo@ams.usda.gov april.taylor@ams.usda.gov	(202) 720 - 0119 (202) 720 - 7880

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

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