



Grain Transportation Report

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

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March 28, 2019

WEEKLY HIGHLIGHTS

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Railroads Make Progress Repairing Track; Some Outages Remain

Midwest flooding continues to significantly affect railroads. BNSF Railway (BNSF) and the Union Pacific Railroad (UP) both report progress in reopening corridors, but outages remain. BNSF reopened its Sioux City subdivision and track between O'Neil, NE and Bayard, IA. However, the routes from Kansas City, MO to Columbus and Omaha, NE remain closed. UP reopened its Omaha, Blair, and Columbus subdivisions, with trains moving under reduced speeds through the Columbus subdivision (between Fremont and Grand Lakes, NE). UP's route between Jefferson City, MO and Omaha, NE remains out of service. Carloading and service data highlight the impact of recent extreme whether on grain shippers. Grain carloads are down considerably from last year and are below the 3-year average (see snapshot below). In addition, March grain train speeds averaged 12 percent below January for BNSF and UP, while their average terminal dwell times and average grain origin dwell times rose 15 percent and 87 percent, respectively.

Flooding Stops Traffic on Upper Mississippi River

Widespread flooding on the inland waterways continues to disrupt grain barge shipments. As of March 28, the following Upper Mississippi River Locks are closed: 16-18 and 20-22. In addition, Mississippi River traffic is stopped between Locks 22 and 24 due to highwater preventing barge passage under a bridge near Louisiana, MO. Mississippi River traffic is restricted to daylight hours through St. Louis, MO, Memphis, TN, Vicksburg, MS, and Baton Rouge, LA. While some locks may reopen by early April, the National Weather Service indicates the Mississippi River will likely remain above flood stage into May. Peak flows are expected to occur from mid to late April. As of March 23, year-to-date grain traffic on the locking portions of the Mississippi, Ohio, and Arkansas rivers is 5.5 million tons, 16 percent lower than the same period last year.

Grain Inspections Rise; Corn Inspections Rebound

For the week ending March 21, total inspections of grain (corn, wheat, and soybeans) for export from all major U.S. export regions reached 2.24 million metric tons (mmt). This is a 7 percent increase from the previous week, an 8 percent decrease from last year, and is 10 percent below the 3-year average. Total grain inspections increased as corn inspections jumped 24 percent from the previous week. Shipments of corn rebounded to Latin America and Asia. Soybean inspections increased 1 percent from week-to-week, but inspections of wheat decreased 12 percent, for the same period. Grain inspections in the Mississippi Gulf increased 16 percent from the past week, while Pacific Northwest (PNW) inspections increased 2 percent.

Snapshots by Sector

Export Sales

For the week ending March 14, unshipped balances of wheat, corn, and soybeans totaled 32.9 mmt. This indicates a 13 percent decrease from the same time last year. Net weekly wheat export sales were .299 mmt, up 14 percent from the previous week. Net corn export sales totaled .856 mmt, up 130 percent from the previous week. However, net soybean export sales were down 78 percent from last week, at a total of .400 mmt.

Rai

U.S. Class I railroads originated 18,619 grain carloads for the week ending March 16. This is a 3 percent decline from the previous week, 22 percent lower than last year, and 18 percent below the 3-year average.

Average April shuttle secondary railcar bids/offers (per car) were \$621 above tariff for the week ending March 21. This is down \$50 from last week, but up \$165 from last year. Average non-shuttle secondary railcar bids/offers were \$425 above tariff, up \$44 from last week. There were no non-shuttle bids/offers this week last year.

Barge

For the week ending March 23, **barge grain movements** totaled 697,390 tons. This is 6 percent higher than the previous week and 29 percent lower than the same period last year.

For the week ending March 23, 428 grain barges **moved down river**. This is 39 more barges than the previous week. There were 644 grain barges **unloaded in New Orleans**, 38 percent higher than the previous week.

Ocean

For the week ending March 21, 34 ocean-going grain vessels were loaded in the Gulf. This is 3 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 21, the ocean freight rate for shipping bulk grain from the Gulf to Japan was \$41.00 per metric ton. This is 3 percent more than the previous week. The cost of shipping from the PNW to Japan was \$23.50 per metric ton. This is 2 percent more than the previous week.

Fuel

For the week ending March 25, the U.S. average diesel fuel price increased to \$3.080 per gallon, 1 cent above the previous week's average and 7 cents above the same week last year.

Feature Article/Calendar

Fourth Quarter Corn and Soybean Transportation Costs Mixed

In 2018, fourth quarter transportation costs for shipping corn and soybeans from Minneapolis, MN through the Gulf, were unchanged from the previous quarter but were up from last year. Pacific Northwest (PNW) transportation costs increased from the third quarter and last year. Due primarily to higher rates for each mode of transportation, PNW transportation costs for shipping grain increased. Trucking rates rose due, in part, to higher diesel prices and increasing demand for grain. Barge rates for shipping grain decreased, as demand for barge services declined. Ocean rates increased due to rising long haul coal trade, which boosted demand for minor bulk trade (see Grain Transportation Report (GTR), 2/14/2019). Rail rates were up slightly from quarter to quarter and year to year.

Total landed costs for shipping corn through the Gulf and PNW to Japan were up from the previous quarter and last year for each route. Landed costs for shipping soybeans through the PNW, however, were mostly down for each route (*see tables 1, 2*). Fourth quarter farm values were higher for corn compared to the previous quarter and the past year. Soybean farm values were down for the same period.

U.S. Gulf Costs: Fourth quarter transportation costs for shipping corn and soybeans from Minneapolis through the Gulf to Japan were unchanged from quarter to quarter (*table 1*). U.S. Gulf ocean rates increased 7 percent from the previous quarter, while trucking rates increased 15 percent for the same period. Fourth quarter barge rates for shipping grain to the Gulf decreased 13 percent from the previous quarter. An increase in ocean freight rates caused a 3 percent increase in year-to-year transportation costs for shipping corn and soybeans through the Gulf (*see table 1*).

Table 1: Cost of Shipping Corn and Soybeans from Minneapolis to Japan through the U.S. Gulf

			Corn					Soybeans		
		\$/m	etric ton	Percent	change			\$/metric ton	Percent Change	
	4thQtr 17	3rdQtr 18	4thQtr 18	Yr. to Yr.	Qtr to Qtr	4thQtr 17	3rdQtr 18	4thQtr 18	Yr. to Yr.	Qtr to Qtr
Truck	14.39	10.54	12.10	-15.91	14.80	14.39	10.54	12.10	-15.91	14.80
Barge	31.93	36.31	31.69	-0.75	-12.73	31.93	36.31	31.69	-0.75	-12.72
Ocean	43.56	45.13	48.46	11.25	7.38	43.56	45.13	48.46	11.25	7.38
Total Transportation Cost	89.88	91.98	92.25	2.64	0.29	89.88	91.98	92.25	2.64	0.29
Farm Value ²	117.05	126.37	129.65	10.76	2.60	332.04	315.38	312.08	-6.01	-1.05
Total Landed Cost	206.93	218.35	221.90	7.23	1.62	421.92	407.36	404.33	-4.17	-0.74
Transportation % Landed Cost	43.43	42.13	41.57			21.30	22.58	22.82		

Table 2: Cost of Shipping Corn and Soybeans from Minneapolis to Japan through the U.S. PNW

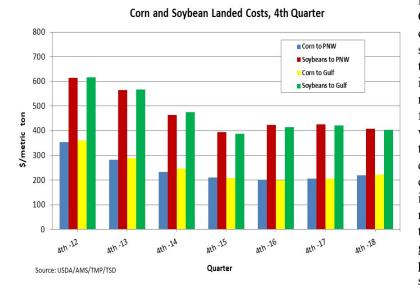
					•	0				
			Corn					Sovbeans		
		\$/metr	ric ton	Percen	t change			\$/metric ton	Percen	t Change
	4thQtr 17	3rdQtr 18	4thQtr 18	Yr. to Yr.	Qtr to Qtr	4thQtr 17	3rdQtr 18	4thQtr 18	Yr. to Yr.	Qtr to Qtr
Truck	14.39	10.54	12.10	-15.91	14.80	14.39	10.54	12.10	-15.91	14.80
Rail ¹	49.65	49.65	51.44	3.61	3.61	56.35	56.61	57.60	2.22	1.75
Ocean	24.56	24.97	26.69	8.67	6.89	24.56	24.97	26.69	8.67	6.89
Total Transportation Cost	88.60	85.16	90.23	1.84	5.95	95.30	92.12	96.39	1.14	4.64
Farm Value ²	117.05	126.37	129.65	10.76	2.60	332.04	315.38	312.08	-6.01	-1.05
Total Landed Cost	205.65	211.53	219.88	6.92	3.95	427.34	407.50	408.47	-4.42	0.24
Transportation % Landed Cost	43.08	40.26	41.04			22.30	22.61	23.60		

Source: USDA/AMS/TMP

Fourth quarter total landed costs for shipping corn and soybeans through the Gulf totaled \$222 per metric ton (mt) for corn and \$404 per mt for soybeans. Quarter-to-quarter landed costs for shipping through the Gulf increased 2 percent for corn, due to higher farm values, while lower barge rates caused a slight decrease in the costs for soybeans. (table 1). Compared to last year, landed costs for shipping grain from the Gulf increased 7 percent for corn and decreased 4 percent for soybeans (see table 1). Transportation costs from the Gulf to Japan represented 42 percent of the total landed costs for corn and 23 percent for soybeans during the fourth quarter, above the previous quarter and last year. This is below the previous quarter and last year (see table 1).

¹ Rail tariffs include fuel surcharges and revisions for heavy axle rail cars and shuttle trains. The rail tariff rate is a base price of rail freight rates, but during periods of high rail demand or car shortages, high auction and secondary market rates could exceed the base rail tariffs per car

² Source: USDA/NASS, Agricultural Prices



Pacific Northwest Costs:

Quarter-to-quarter transportation costs for shipping corn and soybeans, from Minneapolis through the PNW to Japan, increased 6 percent and 5 percent, respectively (see table 2). Rates for shipping grain to the PNW were higher for each mode during the fourth quarter. From quarter to quarter, rail rates for shipping corn and soybeans to the PNW increased 4 and 2 percent, respectively. Year-to-year transportation costs for shipping grain to the PNW increased 2 percent for corn and 1 percent for soybeans because of higher rail and ocean rates.

Quarter-to-quarter total landed costs for shipping grain from the PNW to Japan increased 4 percent for corn but remained unchanged for soybeans. Total fourth quarter landed costs ranged from \$220/mt to \$408/mt (see table 2). Year-to-year PNW total landed costs increased 7 percent for corn but decreased 4 percent for soybeans. Transportation costs for shipping grain to the PNW represented 41 percent of the landed cost for corn and 24 percent for soybeans, both above the third quarter and last year.

According to USDA's Federal Grain Inspection Service, fourth quarter export inspections of corn jumped 82 percent from the previous year (*see GTR 02/07/19*). Total fourth quarter inspections of corn to Japan reached 3.1 mmt, up 138 percent from 2017. At the same time, corn shipments rebounded to Asia and South America. Soybean inspections totaled only 13.6 mmt during the fourth quarter, down 47 percent from the previous year. Shipments of soybeans destined to Japan reached .649 mmt, up 14 percent from 2017.

According to USDA's *World Agricultural Supply and Demand Estimates* report in March, the forecast for 2018/19 corn exports is down 3 percent from February and the past marketing year. Lower price competiveness and higher expected exports for South America moved the forecast for corn exports down during the 4th quarter. The forecast for 2018/19 soybean exports is unchanged from February and 12 percent below 2017/18. *Johnny.Hill@ams.usda.gov*

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
03/27/19	207	303	246	292	183	167
03/20/19	206	302	289	261	179	163

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

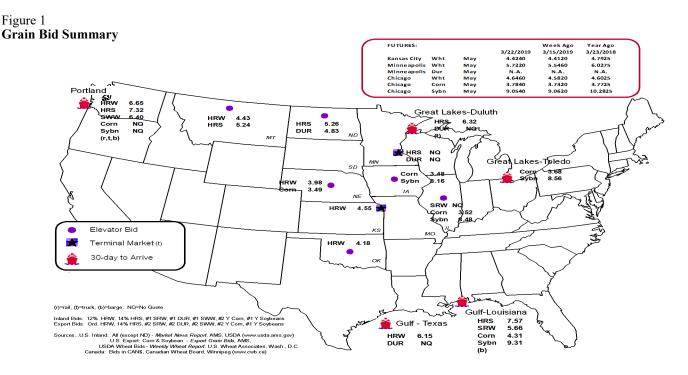
Table 2 Market Update: U.S. Origins to Export Position Price Spreads (\$/bushel)

Commodity	OriginDestination	3/22/2019	3/15/2019
Corn	ILGulf	-0.79	-0.80
Corn	NEGulf	-0.82	-0.85
Soybean	IAGulf	-1.15	-1.22
HRW	KSGulf	-1.60	-1.62
HRS	NDPortland	-2.06	-1.95

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.



Rail Transportation

Table 3
Rail Deliveries to Port (carloads)¹

For the Week Ending	Mississippi Gulf	Texas Gulf	Pacific Northwest	Atlantic & East Gulf	Total	Week ending	Cross-Border Mexico ³
3/20/2019 ^p	1,148	815	6,412	258	8,633	3/16/2019	1,985
3/13/2019 ^r	541	491	5,866	397	7,295	3/9/2019	1,895
2019 YTD ^r	8,239	12,435	64,075	4,540	89,289	2019 YTD	25,261
2018 YTD ^r	5,594	19,152	75,933	3,439	104,118	2018 YTD	20,762
2019 YTD as % of 2018 YTD	147	65	84	132	86	% change YTD	122
Last 4 weeks as % of 2018 ²	251	55	79	89	82	Last 4wks % 2018	118
Last 4 weeks as % of 4-year avg. ²	191	55	88	69	86	Last 4wks % 4 yr	107
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

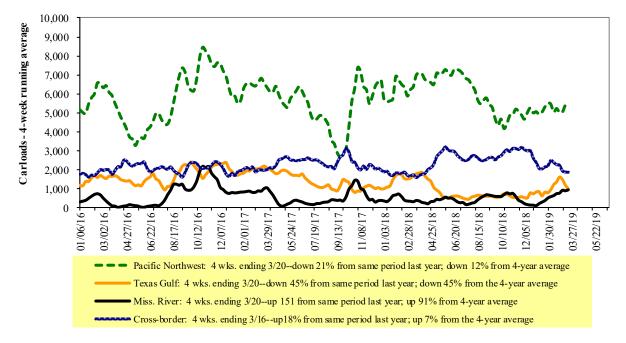
YTD = year-to-date; p = preliminary data; r = revised data; n/a = not available

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)

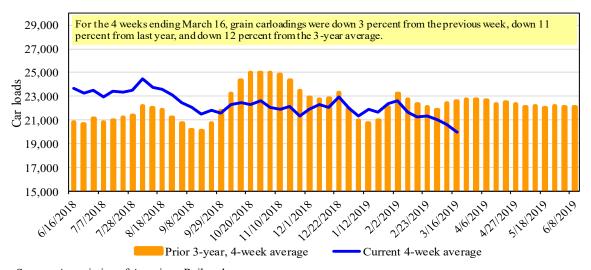
For the week ending:	E	ast		West		U.S. total	Ca	nada
3/16/2019	CSXT	NS	BNSF	KCS	UP	U.S. total	CN	CP
This week	1,755	2,823	8,733	999	4,309	18,619	3,872	3,989
This week last year	2,236	2,438	12,992	590	5,511	23,767	3,732	4,369
2019 YTD	21,001	29,047	115,531	12,132	55,201	232,912	42,934	42,780
2018 YTD	20,040	26,753	128,984	10,246	56,711	242,734	36,997	46,416
2019 YTD as % of 2018 YTD	105	109	90	118	97	96	116	92
Last 4 weeks as % of 2018*	102	105	80	143	89	89	115	93
Last 4 weeks as % of 3-yr avg.**	101	99	84	132	82	89	110	91
Total 2018	98,978	133,167	635,458	48,638	267,713	1,183,954	211,873	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 Offerings 1 (\$/car)2

Fo	or the week ending:		Delivery period							
	3/21/2019	Apr-19	Apr-18	May-19	May-18	Jun-19	Jun-18	Jul-19	Jul-18	
BNSF ³	COT grain units COT grain single-car ⁵	n/a n/a	81 201	n/a n/a	0	n/a n/a	0	n/a n/a	no bids 0	
UP ⁴	GCAS/Region 1 GCAS/Region 2	no offer no offer	no bids 10	n/a n/a	n/a n/a					

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

Region lincludes: 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.

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

 $Source:\ Transportation\ \&\ Marketing\ Pro\ gram/AMS/USDA.$

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

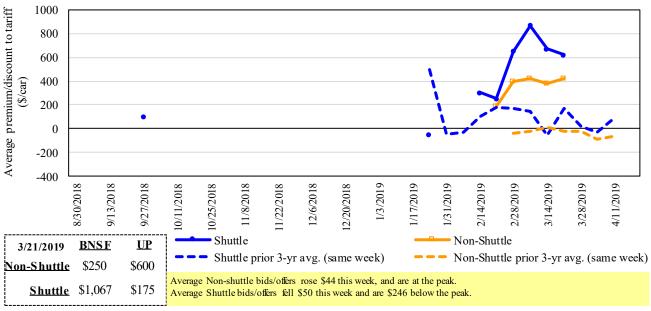
²Average premium/discount to tariff, last auction

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.

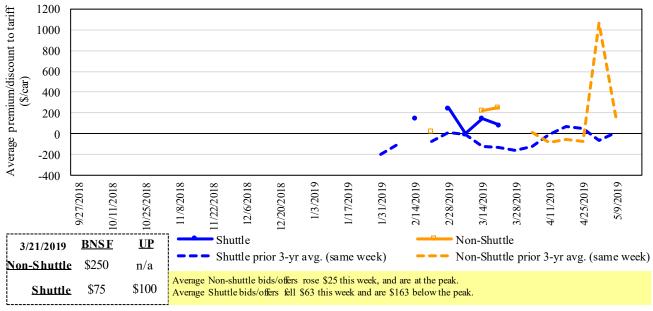
Figure 4
Bids/Offers for Railcars to be Delivered in April 2019, Secondary Market



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

Source: Transportation & Marketing Program/AMS/USDA

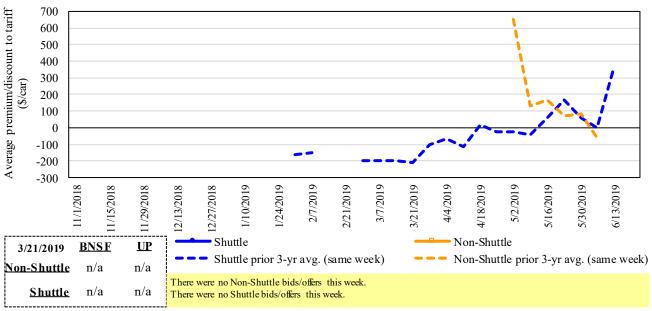
Figure 5
Bids/Offers for Railcars to be Delivered in May 2019, Secondary Market



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 June 2019, Secondary Market



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

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

	For the week ending:			Del	ivery period		
	3/21/2019	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19
	BNSF-GF	250	250	n/a	n/a	n/a	n/a
e	Change from last week	(25)	100	n/a	n/a	n/a	n/a
Non-shuttle	Change from same week 2018	n/a	n/a	n/a	n/a	n/a	n/a
ls-u	UP-Pool	600	n/a	n/a	n/a	n/a	n/a
ž	Change from last week	112	n/a	n/a	n/a	n/a	n/a
	Change from same week 2018	n/a	n/a	n/a	n/a	n/a	n/a
	BNSF-GF	1067	75	n/a	n/a	n/a	n/a
	Change from last week	75	(125)	n/a	n/a	n/a	n/a
ttle	Change from same week 2018	667	n/a	n/a	n/a	n/a	n/a
Shuttle	UP-Pool	175	100	n/a	n/a	n/a	n/a
	Change from last week	(175)	0	n/a	n/a	n/a	n/a
	Change from same week 2018	(338)	300	n/a	n/a	n/a	n/a

 $^{^{1}}Average\ premium/dis\,count\ to\ tariff,\$/car-las\,t\ week$

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 Shipments 1

				Fuel			Percent
			Tariff	surcharge_	Tariff plus surc		change
March, 2019	Origin region ³	Destination region ³	rate/car	per car	metric ton	bushel ²	Y/Y ⁴
<u>Unit train</u>							
Wheat	Wichita, KS	St. Louis, MO	\$3,983	\$91	\$40.46	\$1.10	2
	Grand Forks, ND	Duluth-Superior, MN	\$4,268	\$0	\$42.38	\$1.15	3
	Wichita, KS	Los Angeles, CA	\$7,175	\$0	\$71.25	\$1.94	2
	Wichita, KS	New Orleans, LA	\$4,540	\$160	\$46.68	\$1.27	0
	Sioux Falls, SD	Galveston-Houston, TX	\$6,911	\$0	\$68.63	\$1.87	2
	Northwest KS	Galveston-Houston, TX	\$4,816	\$176	\$49.57	\$1.35	0
	Amarillo, TX	Los Angeles, CA	\$5,121	\$244	\$53.28	\$1.45	2
Corn	Champaign-Urbana, IL	New Orleans, LA	\$4,000	\$181	\$41.52	\$1.05	1
	Toledo, OH	Raleigh, NC	\$6,581	\$0	\$65.35	\$1.66	4
	Des Moines, IA	Davenport, IA	\$2,258	\$38	\$22.80	\$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	\$113	\$36.96	\$0.94	0
	Des Moines, IA	Los Angeles, CA	\$5,327	\$328	\$56.16	\$1.43	0
Soybeans	Minneapolis, MN	New Orleans, LA	\$4,131	\$171	\$42.72	\$1.16	0
	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	\$181	\$48.92	\$1.33	0
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	\$288	\$61.57	\$1.68	1
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	\$181	\$39.53	\$1.00	2
	Lincoln, NE	Galveston-Houston, TX	\$3,880	\$0	\$38.53	\$0.98	5
	Des Moines, IA	Amarillo, TX	\$4,060	\$142	\$41.72	\$1.06	2
	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
Ž	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	\$209	\$49.49	\$1.35	0
	Toledo, OH	Huntsville, AL	\$4,634	\$0	\$46.02	\$1.25	6
	Grand Island, NE	Portland, OR	\$5,710	\$295	\$59.63	\$1.62	0

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

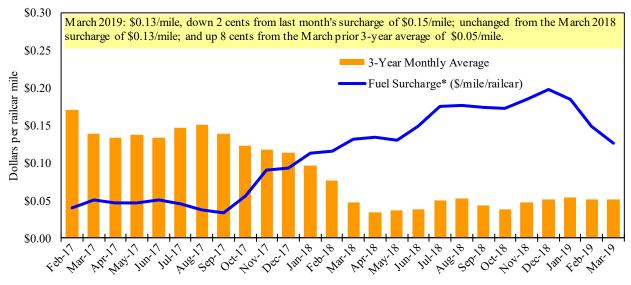
	: March, 20	019	•	Fuel			Percent
	Origin		Tariff	surcharge	Tariff plus surc	harge per:	change ⁴
Commodity	state	Destination region	rate/car ¹	per car ²	metric ton ³	bushel ³	Y/Y
Wheat	MT	Chihuahua, CI	\$7,284	\$0	\$74.43	\$2.02	-2
	OK	Cuautitlan, EM	\$6,743	\$125	\$70.18	\$1.91	2
	KS	Guadalajara, JA	\$7,371	\$456	\$79.97	\$2.17	3
	TX	Salinas Victoria, NL	\$4,329	\$77	\$45.02	\$1.22	1
Corn	IA	Guadalajara, JA	\$8,528	\$388	\$91.10	\$2.31	4
	SD	Celaya, GJ	\$7,880	\$0	\$80.51	\$2.04	2
	NE	Queretaro, QA	\$8,207	\$265	\$86.56	\$2.20	2
	SD	Salinas Victoria, NL	\$6,905	\$0	\$70.55	\$1.79	2
	MO	Tlalnepantla, EM	\$7,573	\$258	\$80.02	\$2.03	2
	SD	Torreon, CU	\$7,480	\$0	\$76.43	\$1.94	2
Soybeans	MO	Bojay (Tula), HG	\$8,284	\$361	\$88.33	\$2.40	3
	NE	Guadalajara, JA	\$8,842	\$387	\$94.29	\$2.56	3
	IA	El Castillo, JA	\$9,110	\$0	\$93.08	\$2.53	2
	KS	Torreon, CU	\$7,714	\$275	\$81.62	\$2.22	4
Sorghum	NE	Celaya, GJ	\$7,527	\$350	\$80.48	\$2.04	4
	KS	Queretaro, QA	\$8,000	\$157	\$83.34	\$2.11	2
	NE	Salinas Victoria, NL	\$6,633	\$126	\$69.05	\$1.75	3
	NE	Torreon, CU	\$6,962	\$256	\$73.75	\$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 Average 1



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
Weekly Barge Freight Rates: Southbound Only

	<u>., 2 m.go 2 101g.</u>	Twin	Mid-	Lower Illinois	C. Y.	G: : ::	Lower	Cairo-
		Cities	Mississippi	River	St. Louis	Cincinnati	Ohio	Memphis
Rate ¹	3/26/2019	-	-	525	457	492	492	433
	3/19/2019	-	-	470	370	450	450	363
\$/ton	3/26/2019	-	-	24.36	18.23	23.07	19.88	13.60
	3/19/2019	-	-	21.81	14.76	21.11	18.18	11.40
Curren	t week % change f	from the sa	me week:					
	Last year	_	-	8	19	-4	-4	12
	3-year avg. ²	-	-	52	76	61	62	85
Rate ¹	April	-	488	475	415	450	450	400
	June	475	458	443	363	387	387	333

 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:

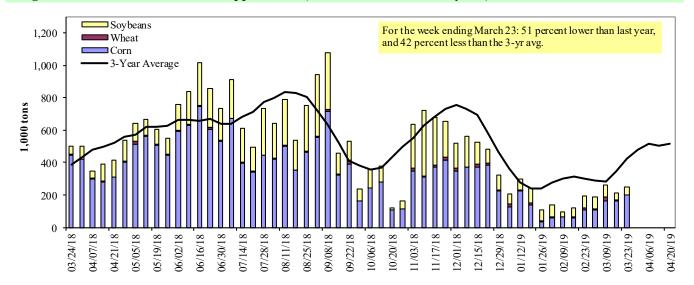
(Rate * 1976 tariff benchmark rate per ton)/100

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 03/23/2019 Wheat Total Corn Soybeans Other Mississippi River Rock Island, IL (L15) 0 0 0 0 0 Winfield, MO (L25) 38 2 2 0 41 2 Alton, IL (L26) 197 47 0 246 2 0 Granite City, IL (L27) 198 47 247 Illinois River (L8) 90 0 23 0 113 14 7 Ohio River (OLMS TED) 215 130 366 Arkansas River (L1) 45 39 0 0 84 Weekly total - 2019 413 61 217 7 697 Weekly total - 2018 634 84 251 7 976 2019 YTD¹ 2,565 519 2,346 34 5,464 2018 YTD¹ 3,499 366 2,596 42 6,504 2019 as % of 2018 YTD 82 73 142 90 84 Last 4 weeks as % of 2018² 59 128 111 146 76 Total 2018 23,349 1,674 12,819 133 37,975

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

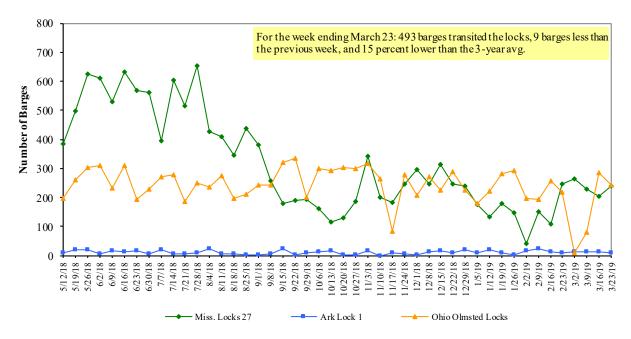
2. Starting from 11/24/2018, weekly movement through Ohio 52 is replaced by Olmsted.

Source: U.S. Army Corps of Engineers

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.

² As a percent of same period in 2018.

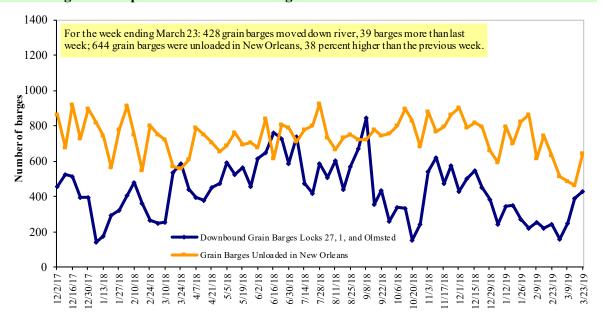
Figure 11
Upbound Empty Barges Transiting Mississippi River Locks 27, Arkansas River Lock and Dam 1, and Ohio River Olmsted Locks and Dam



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.

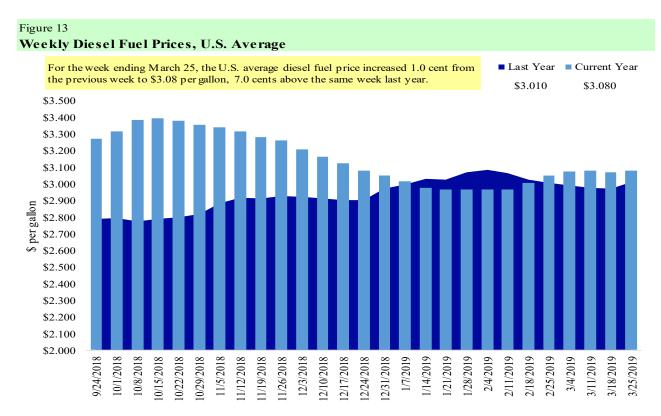
Table 11

Retail on-Highway Diesel Prices, Week Ending 3/25/2019 (US \$/gallon)

			Change	e from
Region	Location	Price	Week ago	Year ago
I	East Coast	3.132	0.008	0.094
	New England	3.214	0.014	0.099
	Central Atlantic	3.310	-0.003	0.093
	Lower Atlantic	2.995	0.014	0.097
II	Midwest	2.993	0.001	0.059
III	Gulf Coast	2.876	0.007	0.053
IV	Rocky Mountain	2.974	0.030	-0.017
V	West Coast	3.526	0.029	0.088
	West Coast less California	3.156	0.017	0.009
	California	3.819	0.038	0.150
Total	U.S.	3.080	0.010	0.070

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)

	•		Who	eat			Corn	Soybeans	Total
For the week ending	HRW	SRW	HRS	SWW	DUR	All wheat		~ • • • • • • • • • • • • • • • • • • •	
Export Balances ¹									
3/14/2019	2,415	875	1,334	1,024	121	5,769	13,934	13,189	32,892
This week year ago	1,183	627	1,425	990	95	4,321	23,514	9,818	37,653
Cumulative exports-marketing year ²									
2018/19 YTD	5,675	2,186	5,103	4,049	360	17,374	27,819	28,317	73,510
2017/18 YTD	7,642	1,738	4,450	4,028	276	18,134	21,587	40,216	79,937
YTD 2018/19 as % of 2017/18	74	126	115	101	130	96	129	70	92
Last 4 wks as % of same period 2017/18	210	148	98	113	121	140	60	135	89
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

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

Table 13 **Top 5 Importers**¹ of U.S. Corn

For the week ending 3/14/2019	Total Commitme	nts 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	13,456	11,689	15	13,691
Japan	8,861	8,191	8	11,247
Korea	3,402	3,023	13	4,754
Colombia	3,256	3,051	7	4,678
Peru	1,877	2,240	(16)	2,975
Top 5 Importers	30,851	28,194	9	37,344
Total US corn export sales	41,754	45,102	(7)	53,184
% of Projected	67%	73%		
Change from prior week ²	856	1,470		
Top 5 importers' share of U.S. corn				
export sales	74%	63%		70%
USDA forecast, March 2019	62,341	62,036	0	
Corn Use for Ethanol USDA forecast,				
March 2019	140,970	142,367	(1)	

⁽n) indicates negative number.

² Shipped export sales to date; new marketing year now in effect for corn, soybeans, and wheat Note: YTD = year-to-date. Marketing Year: wheat = 6/01-5/31, corn & soybeans = 9/01-8/31

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/. Total commitments change (net sales) from prior week could include revisions from previous week's outstanding sales or accumulated sales.

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

Table 14 **Top 5 Importers** 1 of U.S. Soybeans

For the week ending 3/14/2019	Total (Commitments 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 -
China	11,218	28,526	(61)	31,228
Mexico	4,567	3,621	26	3,716
Indonesia	1,589	1,467	8	2,250
Japan	1,939	1,697	14	2,145
Netherlands	1,679	995	69	2,209
Top 5 importers	20,993	36,307	(42)	41,549
Total US soybean export sales	41,506	50,034	(17)	55,113
% of Projected	81%	86%		
Change from prior week ²	400	759		
Top 5 importers' share of U.S.				
soybean export sales	51%	73%		75%
USDA forecast, March 2019	51,090	58,011	88	

⁽n) indicates negative number.

Table 15 **Top 10 Importers** of All U.S. Wheat

For the week ending 3/14/2019	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	2,758	2,766	(0)	2,781
Japan	2,580	2,665	(3)	2,649
Philippines	2,880	2,481	16	2,441
Korea	1,554	1,407	10	1,257
Nigeria	1,427	1,111	28	1,254
Indonesia	1,132	1,164	(3)	1,076
Taiwan	1,096	1,105	(1)	1,066
China	42	926	(95)	944
Colombia	592	301	97	714
Thailand	742	634	17	618
Top 10 importers	14,804	14,558	2	14,800
Total US wheat export sales	23,143	22,455	3	22,869
% of Projected	88%	91%		
Change from prior week ²	299	265		
Top 10 importers' share of U.S.				
wheat export sales	64%	65%		65%
USDA forecast, March 2019	26,294	24,550	7	

⁽n) indicates negative number.

Based 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

 $^{^3\} FAS\ Marketing\ Year\ Final\ Reports\ -\ www.fas.us\ da.go\ v/export-s\ ales/myfi_rpt.htm.\ (Carryo\ ver\ plus\ Accumulated\ Exports)$

¹ 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.

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

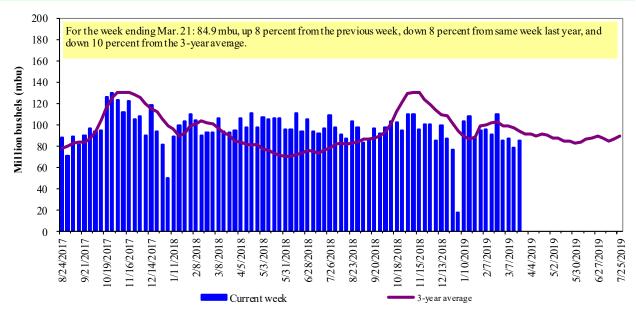
	For the Week Ending	Previous	evious Current Week			2019 YTD as	Last 4-we	eks as % of:	
Port Regions	03/21/19	Week*	as % of Previous	2019 YTD*	2018 YTD*	% of 2018 YTD	Last Year	Prior 3-yr. avg.	2018 Total*
Pacific Northwest									
Wheat	117	180	65	2,840	2,461	115	125	87	13,315
Com	239	235	102	2,413	3,809	63	47	64	20,024
Soybeans	353	283	125	3,186	3,380	94	132	136	7,719
Total	709	697	102	8,439	9,650	87	86	91	41,058
Mississippi Gulf	10)	071	102	0,107	7,000	O1	00	71	11,000
Wheat	63	82	77	1,143	1,017	112	91	105	3,896
Com	594	404	147	5,846	6,449	91	73	66	33,735
Soybeans	429	450	95	7,000	7,354	95	101	101	28,124
Total	1,086	935	116	13,988	14,820	94	85	81	65,755
Texas Gulf	1,000	700	110	10,700	11,020	71	00	01	00,100
Wheat	152	99	154	1,354	1,158	117	122	116	3,198
Corn	30	22	138	146	131	112	123	132	730
Soybeans	0	0	n/a	0	0	n/a	n/a	n/a	69
Total	182	121	151	1,500	1,289	116	122	118	3,997
Interior				,	,				,
Wheat	27	37	72	358	359	100	107	107	1,614
Com	115	121	95	1,508	1,591	95	95	95	8,650
Soybeans	108	99	109	1,436	1,358	106	95	125	6,729
Total	250	257	97	3,302	3,308	100	96	107	16,993
Great Lakes									
Wheat	0	8	0	30	19	157	n/a	300	894
Com	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	8	0	47	19	242	n/a	300	2,491
Atlantic									
Wheat	0	0	n/a	1	64	1	1	1	69
Com	0	7	0	35	0	n/a	n/a	460	138
Soybeans	13	63	21	341	506	67	86	79	2,047
Total	13	70	19	377	570	66	66	69	2,253
U.S. total from ports	*								
Wheat	358	405	88	5,725	5,079	113	111	97	22,986
Com	979	789	124	9,949	11,979	83	68	70	63,682
Soybeans	903	894	101	11,979	12,598	95	107	113	45,879
Total	2,240	2,089	107	27,653	29,656	93	88	89	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.

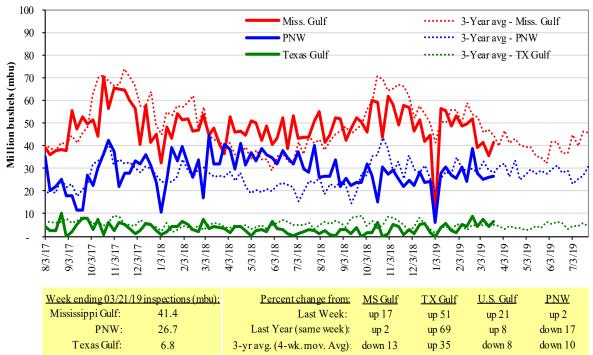
Figure 14
U.S. grain inspected for export (wheat, corn, and soybeans)



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)

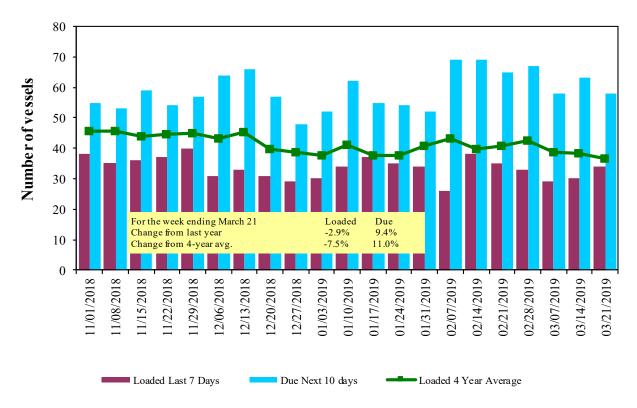
Ocean Transportation

Table 17
Weekly Port Region Grain Ocean Vessel Activity (number of vessels)

, 8				Pacific
		Gulf		Northwest
		Loaded	Due next	
Date	In port	7-days	10-days	In port
3/21/2019	41	34	58	33
3/14/2019	47	30	63	28
2018 range	(2388)	(2441)	(3867)	(430)
2018 avg.	40	34	54	17

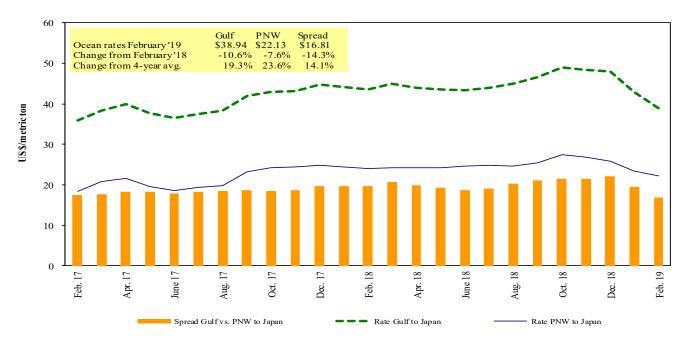
Source: Transportation & Marketing Programs/AMS/USDA

Figure 16
U.S. Gulf Vessel Loading Activity



Source: Transportation & Marketing Program/AMS/USDA ¹U.S. Gulfineludes 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 03/23/2019

Export	Import	Grain	Loading	Volume loads	Freight rate
region	region	types	date	(metric tons)	(US \$/metric ton)
U.S. Gulf	China	Heavy Grain	Mar 15/Apr 15	63,000	40.00
PNW	China	Heavy Grain	Mar 2/18	60,000	27.50
PNW	Oman	Wheat	Feb 18/28	25,000	69.94*
PNW	Taiwan	Heavy Grain	Sep 15/Oct 31	63,000	25.00
Brazil	China	Heavy Grain	Apr 15/30	63,000	32.50
Brazil	China	Heavy Grain	Mar 20/30	66,000	13.30
Brazil	China	Heavy Grain	Mar 3/11	63,000	27.50
Brazil	China	Heavy Grain	Feb 26/M ar 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

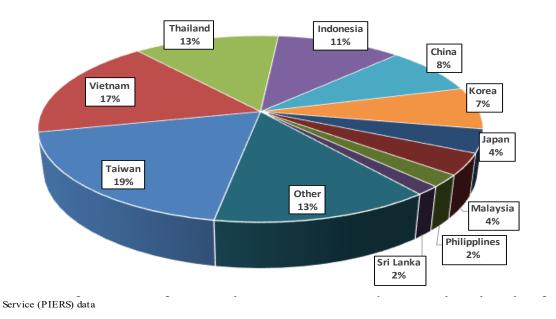
Source: Maritime Research Inc. (www.maritime-research.com)

^{*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



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 80 2017 75 May 2018: Down 63% from last year and 68% lower than 2018 the 5-year average 70 5-year avg 65 Thousand 20-ft equivalent units 60 55 50 45 40 35 30 25 20 15 10 5 0 May Mar. Apr. Nov. Jun. Dec. Feb. Jul. Jan.

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.

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