

Mexico Transport Cost Indicator Report

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Farm Prices Decline, Mexico Imported More Corn. Mexico imported more U. S. corn during the 4th quarter of 2013 than the same period a year earlier as farm prices fell. It imported about 2.8 million metric tons (mmt) of corn between October and December—150 percent more than the same period a year ago. Although farm prices fell, the total value of the corn imports, at \$653.17 million, is 78 percent greater than last year because of a significant increase in the amount of corn imported. The transportation costs of shipping grain to Mexico generally increased during the quarter.

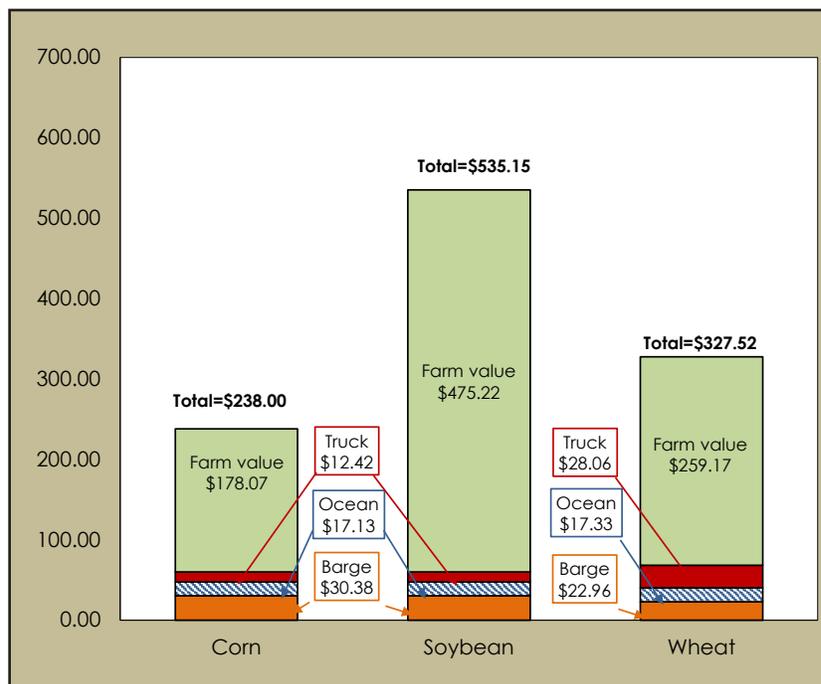
The cost of transporting seaborne corn, soybeans, and wheat to Veracruz, Mexico, increased 20, 20, and 25 percent, respectively, during the quarter. The cost of transporting corn and soybeans by land to Guadalajara increased 1 percent, but the cost of transporting wheat decreased 8 percent during the quarter. The cost of shipping through the water route was pushed up mainly by increases in the barge rates caused by seasonal increases in the demand for barge services during the harvest season, which is typical when comparing fourth quarter to third quarter barge rates. The cost of transporting corn and soybeans by the land route increased because of higher truck and rail tariff rates during the quarter.

Year-to-year transportation costs also increased for all grains and across all routes. With the exception of declining barge rates for seaborne wheat, the rates increased for all modes of transportation for all grains. As grain prices declined and transportation costs increased, the transportation share of the landed cost increased for both water and land routes. The transportation share of landed costs ranged from 11 to 25 percent for the

water route and 17 to 34 percent for the land route. The landed costs ranged from \$238.00 to \$535.15 per metric ton (mt) for the water route (figure 1) and \$267.53 to \$556.87 for the land route (figure 2).

Compared to 2012, the average landed costs for the water and land routes of both corn and wheat declined during 2013 (figures 3 and 4), primarily due to the decreases in the average farm prices for both commodities.

Figure 1. Water route shipment costs to Veracruz, Mexico



Source: USDA Agricultural Marketing Service

April 22, 2014

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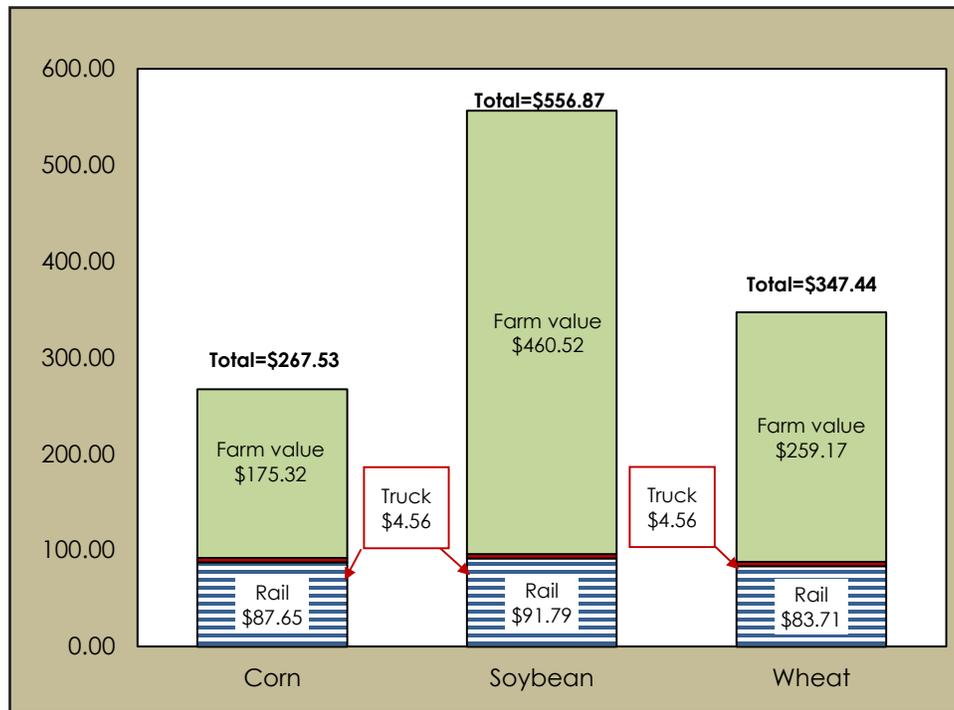
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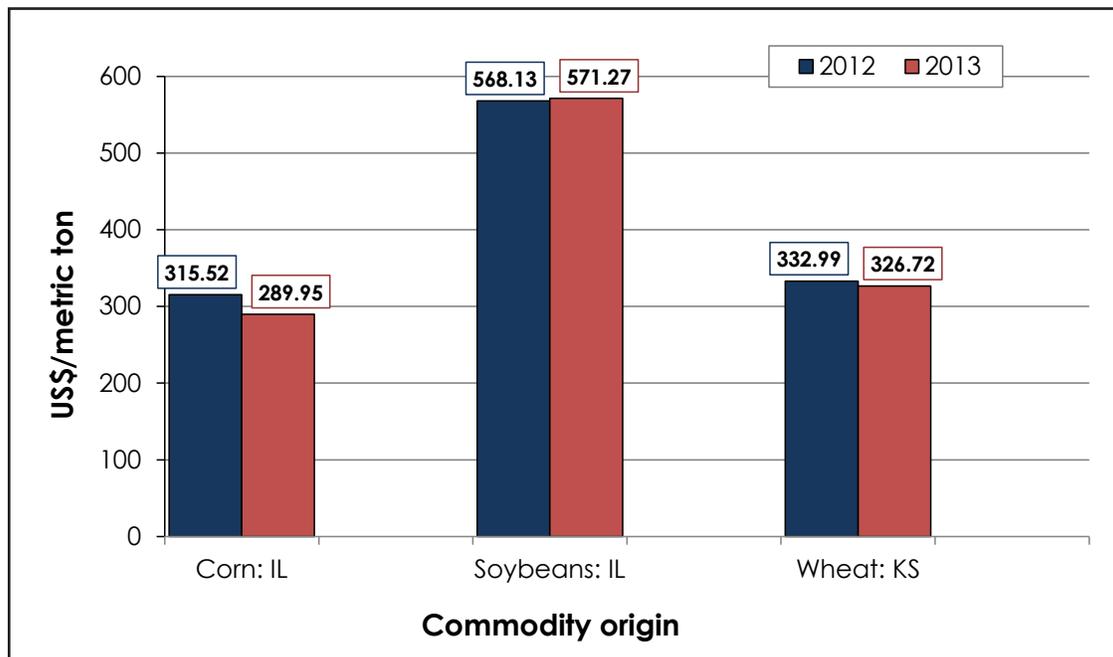


Figure 2. Land route shipment costs to Guadalajara, Mexico



Source: USDA Agricultural Marketing Service

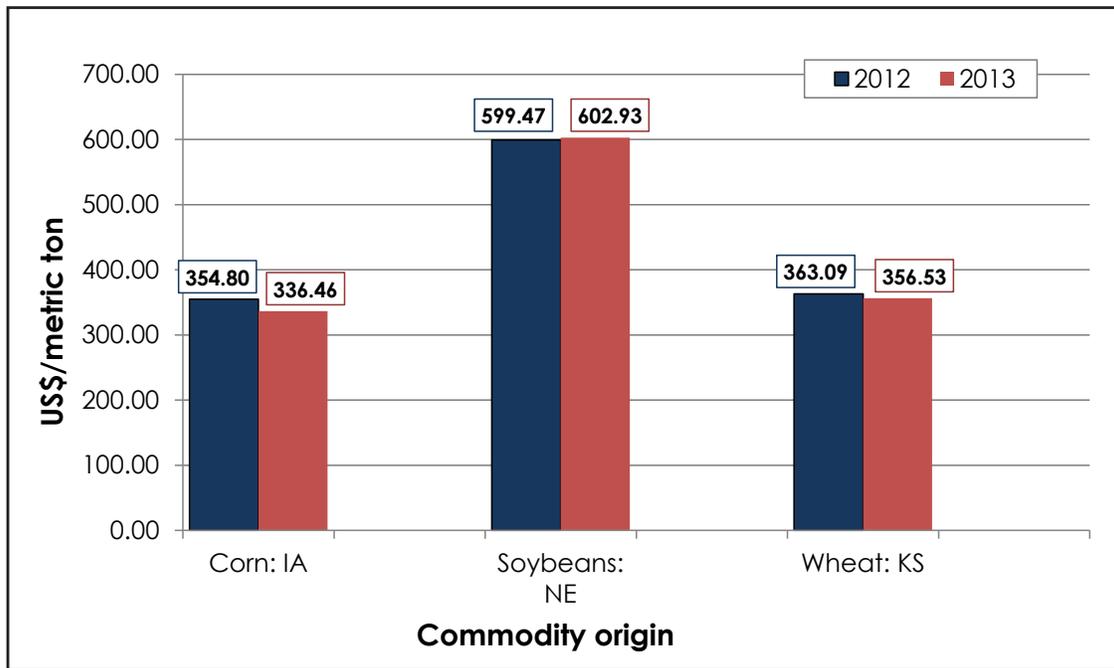
Figure 3. Average landed cost of U.S. corn, soybeans and wheat to Veracruz, Mexico during 2012-2013



Source: USDA Agricultural Marketing Service



Figure 4. Average landed cost of U.S. corn, soybeans and wheat to Guadalajara, Mexico during 2012-2013



Source: USDA Agricultural Marketing Service

Market Outlook

Although Mexico imported less grain from the United States during 2013 than 2012, Mexico imported more corn and soybeans during the fourth quarter of 2013 than the same period a year earlier. Mexico imported 150 and 16 percent more corn and soybeans, respectively, than the same period a year ago. While the value of corn imports increased by 78 percent, soybean value decreased by 1 percent. With an increase in production during the current crop year, corn and soybean farm prices were significantly lower than last year's drought-impacted crop. Mexico also imported less wheat than last year.

In addition to reductions in planted areas, damages caused by adverse weather are expected to reduce Mexico's corn and wheat production estimates for the marketing year (MY) 2013/14. The Foreign Agriculture Service's latest estimate revised Mexico's corn production downward to 21.5 million metric tons (mmt) from 21.7 mmt (USDA, FAS GAIN Report # MX4009). The new total corn import forecast for Mexico during MY 2013/14 has been revised upward to 11.2 mmt (USDA, FAS GAIN Report # MX4009). For more on Mexico's grain imports, see GTR, dated 3/13/14.

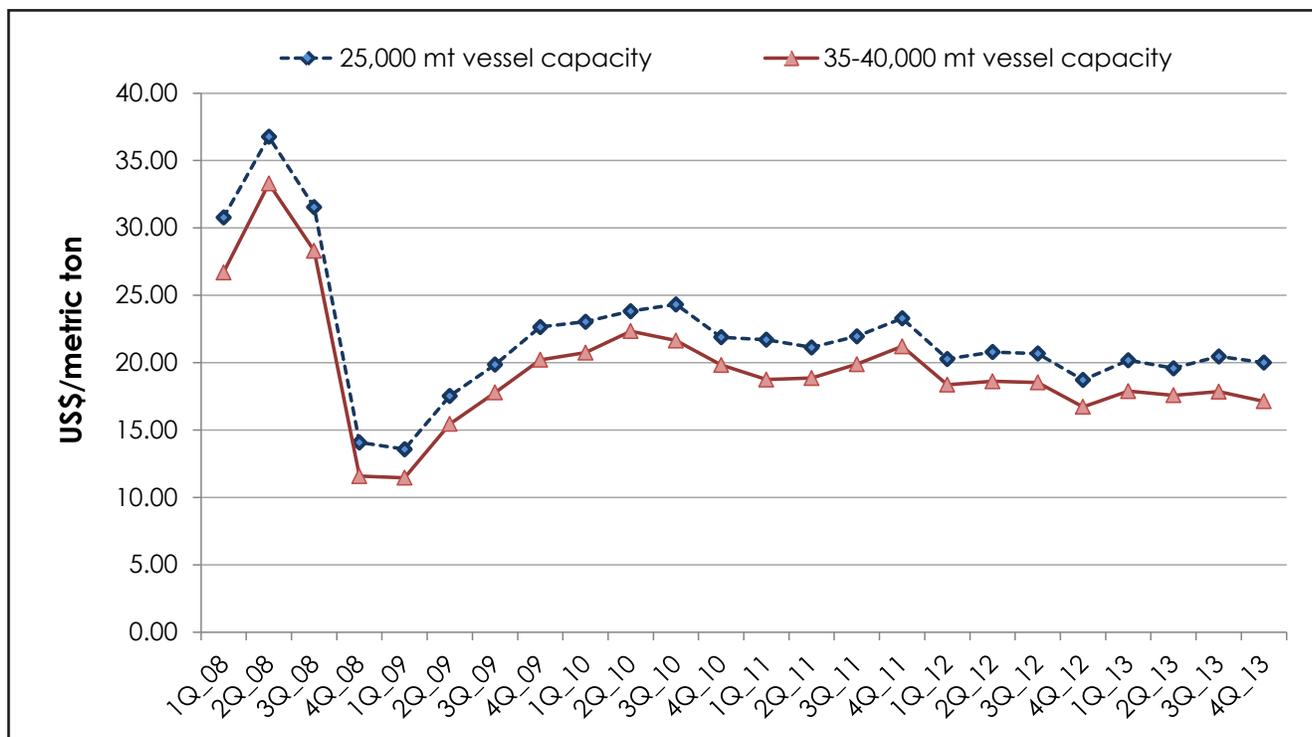
- Rail Rates and Volume:** High U.S. grain prices and limited grain supplies resulted in a 20-percent decrease in 2013 rail shipments of grain to Mexico from 2012. During the fourth quarter of 2013, following a record harvest that decreased grain prices, railroads transported 27,789 carloads of grain and oilseeds to Mexico, up 30 percent from the fourth quarter of 2012 and up 18 percent from the prior 3-year average.

Overall rail transportation costs (tariff rates plus fuel surcharges) increased 2.2 percent from the third quarter of 2013 and were up 0.9 percent from the fourth quarter of 2012. Tariff rail rates per grain car were \$6,873, up 2 percent from the third quarter, and up 1.8 percent from the fourth quarter of 2012. Fuel surcharges per railcar, at \$618, were up 3.8 percent from the third quarter of 2013, but down 8.9 percent from the fourth quarter of 2012.



- Ocean Freight Rates:** Fourth quarter ocean freight rates for shipping bulk grains to Mexico decreased from the previous quarter and 4-year average, but increased from the same period a year ago (figure 5). The cost of shipping a metric ton (mt) of grain from the U.S. Gulf to Veracruz, Mexico, in a 25,000 ton-capacity vessel averaged \$20.01 per mt during the quarter—2 percent less than the previous quarter, but 7 percent more than the same period last year and 8 percent below the 4-year average. The cost of shipping in a 35-40,000 ton-capacity vessel averaged \$17.13 per mt—4 percent less than the previous quarter, but 2 percent more than the same period last year and 12 percent below the 4-year average. The yearly average ocean rate for shipping in a 25,000 ton-capacity vessel remained unchanged in 2013, from the previous year, while the cost of shipping in a 35-40,000-ton-capacity vessel declined by 2 percent. Despite an improvement in global bulk trade from recent years, the bulk market is still characterized by excess vessel supply causing the bulk ocean rates to be moderate.

Figure 5. Bulk ocean freight rates from the U.S. Gulf to Veracruz, Mexico, 2008-2013



Source: O'Neil Commodity Consulting

Fruit and Vegetables

Total reported shipments of fruits and vegetables from Mexico during the fourth quarter of 2013 increased 1 percent from the same quarter in 2012; the sum of the top 5 commodities also increased 1 percent. The majority of this increase came from a 20 percent jump in squash shipments which, according to The Packer, have become more popular recently with American consumers as they are used in a variety of dishes. Tomato shipments from Mexico decreased 13 percent, most likely due to weather events that impacted yields. Though the majority of avocado shipments in the United States originate in Mexico, reported shipments were down 3 percent this quarter. The Packer reports competition from Florida and Chile was stronger this year; these originating markets had higher shipments at the end of 2013.



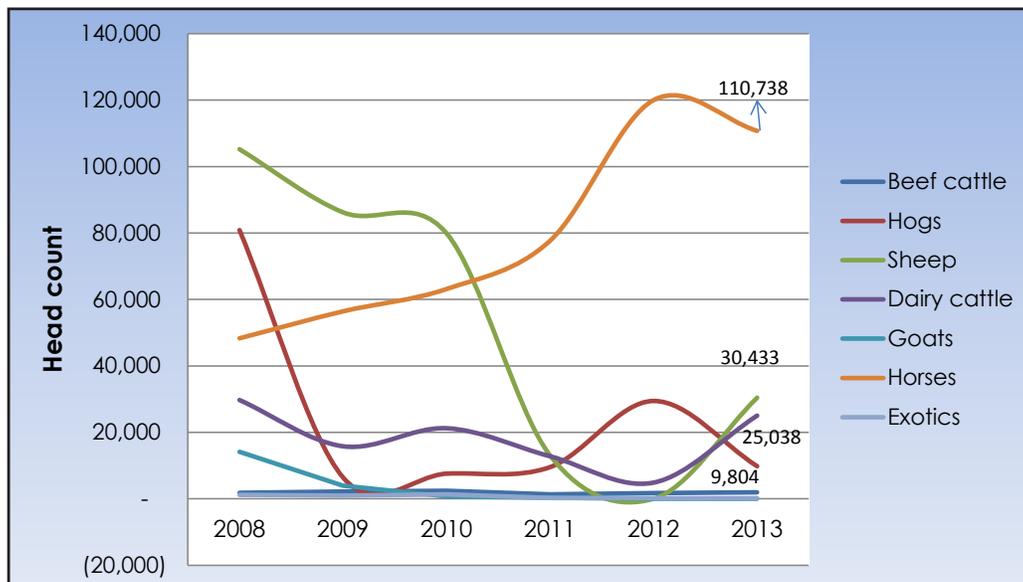
Truck rates for shipments between 501 and 1,500 miles through the Texas border crossings averaged \$2.01 per mile, down 1 percent from last quarter, and 4 percent lower than the same quarter last year. Rates for shipments between 501 and 1,500 miles through the Arizona border crossings averaged \$2.33 per mile, up 43 percent from last quarter and 21 percent higher than the same quarter last year. Diesel fuel prices for border crossings through Texas averaged \$3.78 per gallon, 1.7 percent lower than the previous quarter, and 3.4 percent lower than the same quarter in 2012. Diesel fuel prices for border crossings through Arizona averaged \$3.91 per gallon, 1.5 percent lower than the previous quarter and 3.7 percent lower than the same period in 2012. Truck availability was adequate through October and November; availability tightened in December, moving toward the slight shortage range.

Livestock

Horse

USDA's Market News data show that the border crossing flow of horses to Mexico dropped 10 percent between 2012 and 2013 after increasing steadily for over 5 years. In 2012, 120,000 horses were exported to Mexico for slaughter compared to 110,000 in 2013. Since the closing of U.S. based horse slaughter plants in 2007, U.S. horses have been shipped to Mexico for slaughter and exported to Europe, Japan, and Russia for consumption. Last year's decrease follows the horse-meat contamination scandal in Europe, which resulted in meat and processed food products that were suspected of containing horse meat as an undeclared ingredient being pulled. Those who support horse slaughter argue that horses are classified as livestock and are no different from other livestock. Opponents believe a horse is not a food animal and is not treated as such for the majority of its lifetime, leading to food safety concerns.

Figure 6. Livestock border crossing (head count), 2008-2013



Source: USDA Agricultural Marketing Service

Sheep

Exports of sheep to Mexico were insignificant in 2012 but rebounded significantly in 2013, increasing to 30,400. This renewal is probably due to the strengthening Mexican peso, which has strengthened 12 percent against the dollar between mid-2012 and mid-2013.

Dairy Cattle

Mexico has been a major destination for U.S. dairy cattle exports for many years, even with declining exports between 2008 and 2012. However in 2013, U.S. exports of dairy cattle were at their highest level since 2008 at 25,038 heads.



Table 1. Average cost of transporting U.S. grain and soybeans to Mexico, 2011-2013

	Water route (to Veracruz)				Land route (to Guadalajara)			
	2011	2012	2013	% change	2011	2012	2013	% change
	US\$/metric ton							
Corn								
Origin	IL				IA			
Truck	11.38	11.29	11.56	2.39	3.58	4.96	4.24	-14.52
Rail ¹					83.88	87.42	87.18	-0.27
Ocean ²	19.68	18.06	17.61	-2.49				
Barge	23.57	21.61	19.81	-8.33				
Total transportation cost	54.63	50.96	48.98	-3.89	87.46	92.38	91.42	-1.04
Farm price	241.89	264.56	240.97	-8.92	234.67	262.42	245.04	-6.62
Landed cost	296.52	315.52	289.95	-8.10	322.13	354.80	336.46	-5.17
Transport % of landed cost	18.4	16.2	16.9	4.59	27.2	26.0	27.2	4.36
Soybeans								
Origin	IL				NE			
Truck	11.38	11.29	11.56	2.39	3.58	4.96	4.24	-14.52
Rail ¹					84.85	89.90	91.33	1.59
Ocean ²	19.68	18.06	17.61	-2.49				
Barge	23.57	21.61	19.81	-8.33				
Total transportation cost	54.63	50.96	48.98	-3.89	88.43	94.86	95.57	0.75
Farm price	470.02	517.17	523.29	1.18	452.56	504.61	507.36	0.54
Landed cost	524.65	568.13	572.27	0.73	540.99	599.47	602.93	0.58
Transport % of landed cost	10.4	9.0	8.6	-4.58	16.3	15.8	15.9	0.17
Wheat								
Origin	KS				KS			
Truck	31.90	24.23	28.17	16.26	3.58	4.96	4.24	-14.52
Rail ¹					80.68	83.78	86.20	2.89
Ocean ²	19.68	18.06	17.66	-2.21				
Barge	15.99	16.35	14.80	-9.48				
Total transportation cost	67.57	58.64	60.63	3.39	84.26	88.74	90.44	1.92
Farm price	272.21	274.35	266.09	-3.01	272.21	274.35	266.09	-3.01
Landed cost	339.78	332.99	326.72	-1.88	356.47	363.09	356.53	-1.81
Transport % of landed cost	19.9	17.6	18.6	5.38	23.6	24.4	25.4	3.79

¹Rail rates include U.S. and Mexico portions of the movement. Mexico rail rates are estimated based on actual quoted market rates. BNSF and Union Pacific quoted rail tariff rates are through rates for shuttle train

Rail rates include fuel surcharges

²Source: O'Neil Commodity Consulting, Inc.



Table 2. Quarterly costs of transporting U.S. grain and soybeans to Mexico

-----2013-----										
	Water route (to Veracruz)					Land route (to Guadalajara)				
	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
	US\$/metric ton									
	Corn									
Origin	IL					IA				
Truck	10.98	9.46	13.38	12.42	11.56	4.16	3.76	4.46	4.56	4.24
Rail ¹						87.05	87.50	86.52	87.65	87.18
Ocean ²	17.89	17.58	17.85	17.13	17.61					
Barge	15.27	14.83	18.77	30.38	19.81					
Total transportation cost	44.14	41.87	50.00	59.93	48.98	91.21	91.26	90.98	92.21	91.42
Farm price	276.23	272.43	237.13	178.07	240.97	278.07	278.86	247.89	175.32	245.04
Landed cost	320.37	314.30	287.13	238.00	289.95	369.28	370.12	338.87	267.53	336.46
Transport % of landed cost	13.8	13.3	17.4	25.2	16.9	24.7	24.7	26.8	34.5	27.2
	Soybeans									
Origin	IL					NE				
Truck	10.98	9.46	13.38	12.42	11.56	4.16	3.76	4.46	4.56	4.24
Rail ¹						91.20	91.64	90.69	91.79	91.33
Ocean ²	17.89	17.58	17.85	17.13	17.61					
Barge	15.27	14.83	18.77	30.38	19.81					
Total transportation cost	44.14	41.87	50.00	59.93	48.98	95.36	95.40	95.15	96.35	95.57
Farm price	535.23	553.61	529.11	475.22	523.29	522.99	536.40	509.51	460.52	507.36
Landed cost	579.37	595.48	579.11	535.15	572.27	618.35	631.80	604.66	556.87	602.93
Transport % of landed cost	7.6	7.0	8.6	11.2	8.6	15.4	15.1	15.7	17.3	15.9
	Wheat									
Origin	KS					KS				
Truck	26.34	35.77	22.50	28.06	28.17	4.16	3.76	4.46	4.56	4.24
Rail ¹						83.19	86.47	91.42	83.71	86.20
Ocean ²	17.89	17.58	17.85	17.33	17.66					
Barge	11.92	9.84	14.47	22.96	14.80					
Total transportation cost	56.15	63.19	54.82	68.35	60.63	87.35	90.23	95.88	88.27	90.44
Farm price	280.23	269.33	255.61	259.17	266.09	280.23	269.33	255.61	259.17	266.09
Landed cost	336.38	332.52	310.43	327.52	326.72	367.58	359.56	351.49	347.44	356.53
Transport % of landed cost	16.7	19.0	17.7	20.9	18.6	23.8	25.1	27.3	25.4	25.4

¹Rail rates include U.S. and Mexico portions of the movement. Mexico rail rates are estimated based on actual quoted market rates. BNSF and Union Pacific quoted rail tariff rates are through rates for shuttle trains.

² Source: O'Neil Commodity Consulting, Inc.

Rail rates include fuel surcharges.



Table 3. Quarterly tariff rail rates for U.S. bulk grain shipments to Mexico (US\$/car), 2013

Commodity	Origin state	Destination	Tariff rate/car ¹				Fuel surcharge per car ²					
			1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
Wheat	MT	Chihuahua, CI	6,595	6,262	6,327	6,360	6,386	595	579	563	563	575
	OK	Cuautitlan, EM	6,552	6,606	6,715	6,290	6,541	723	703	684	684	698
	KS	Guadalajara, JA	7,444	7,727	8,293	7,715	7,795	698	679	660	660	675
	TX	Salinas Victoria, NL	3,553	3,326	2,872	2,898	3,162	272	265	258	258	263
Corn	IA	Guadalajara, JA	7,699	7,699	7,699	7,974	7,767	821	799	777	777	793
	SD	Penjamo, GJ	7,608	7,356	7,356	7,656	7,494	778	757	736	736	752
	NE	Queretaro, QA	7,153	7,153	7,153	7,317	7,194	729	710	690	690	705
	SD	Salinas Victoria, NL	5,700	5,700	5,700	5,880	5,745	592	576	560	560	572
	MO	Tlalnepantla, EM	6,592	6,592	6,592	6,755	6,633	709	689	670	670	685
	SD	Torreon, CU	6,522	6,522	6,522	6,722	6,572	652	634	617	617	630
Soybeans	MO	Bojay (Tula), HG	7,580	7,580	7,580	7,868	7,652	693	674	655	655	669
	NE	Guadalajara, JA	8,134	8,134	8,134	8,447	8,212	792	771	749	749	765
	IA	El Castillo, JA	8,555	8,555	8,555	8,855	8,630	774	753	732	732	748
	KS	Torreon, CU	6,651	6,651	6,651	6,864	6,704	491	478	465	465	475
Sorghum	TX	Guadalajara, JA	6,464	6,464	6,464	6,764	6,539	507	493	479	479	489
	NE	Penjamo, GJ	6,997	6,997	6,997	7,272	7,065	707	688	669	669	683
	KS	Queretaro, QA	6,815	6,815	6,815	7,005	6,863	444	432	420	420	429
	NE	Salinas Victoria, NL	5,438	5,438	5,438	5,628	5,485	520	506	492	492	502
	NE	Torreon, CU	6,153	6,153	6,153	6,328	6,197	580	564	549	549	561

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.

²Approximate load per car = 97.87 mt; corn & sorghum 56 lbs/bu, wheat & soybeans 60 lbs/bu

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



Table 4. Quarterly tariff plus fuel surcharge rail rates for U.S. bulk grain shipments to Mexico, 2013

			Tariff ¹ plus fuel surcharge per:									
			US\$/metric ton					US\$/bushel ²				
Commodity	Origin State	Destination	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
Wheat	MT	Chihuahua, CI	73.47	70.39	70.35	70.90	71.28	2.00	1.91	1.91	1.93	1.94
	OK	Cuautitlan, EM	74.33	75.28	75.53	71.45	74.15	2.02	2.05	2.05	1.94	2.02
	KS	Guadalajara, JA	83.19	86.47	91.42	85.77	86.71	2.26	2.35	2.49	2.33	2.36
	TX	Salinas Victoria, NL	39.09	36.92	31.95	32.31	35.07	1.06	1.00	0.87	0.88	0.95
Corn	IA	Guadalajara, JA	87.05	87.50	86.52	89.63	87.68	2.21	2.22	2.20	2.27	2.22
	SD	Penjamo, GJ	85.69	83.55	82.61	85.97	84.45	2.17	2.12	2.10	2.18	2.14
	NE	Queretaro, QA	80.54	80.94	80.07	82.01	80.89	2.04	2.05	2.03	2.08	2.05
	SD	Salinas Victoria, NL	64.29	64.61	63.90	65.96	64.69	1.63	1.64	1.62	1.67	1.64
	MO	Tlalnepanitla, EM	74.59	74.98	74.13	76.06	74.94	1.89	1.90	1.88	1.93	1.90
	SD	Torreón, CU	73.30	73.66	72.88	75.16	73.75	1.86	1.87	1.85	1.91	1.87
Soybeans	MO	Bojay (Tula), HG	84.53	84.91	84.08	87.27	85.20	2.30	2.31	2.29	2.37	2.32
	NE	Guadalajara, JA	91.20	91.64	90.69	94.18	91.93	2.48	2.49	2.47	2.56	2.50
	IA	Penjamo (Celaya), GJ	95.32	95.74	94.82	98.17	96.01	2.59	2.60	2.58	2.67	2.61
	KS	Torreón, CU	72.98	73.25	72.66	75.01	73.48	1.98	1.99	1.98	2.04	2.00
Sorghum	TX	Guadalajara, JA	71.22	71.50	70.90	74.15	71.94	1.81	1.81	1.80	1.88	1.83
	NE	Penjamo, GJ	78.71	79.10	78.25	81.32	79.35	2.00	2.01	1.99	2.06	2.01
	KS	Queretaro, QA	74.17	74.41	73.88	75.98	74.61	1.88	1.89	1.87	1.93	1.89
	NE	Salinas Victoria, NL	60.87	61.16	60.54	62.67	61.31	1.54	1.55	1.54	1.59	1.56
	NE	Torreón, CU	68.80	69.12	68.42	70.42	69.19	1.75	1.75	1.74	1.79	1.76

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.

²Approximate load per car = 97.87 mt; corn & sorghum 56 lbs/bu, wheat & soybeans 60 lbs/bu

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



Quarterly Bulk Grain and Soybeans

Table 5. Quarterly exports of U.S. Distillers' Dried Grains with Soluble (DDGS) to Mexico*

Year	Thousand metric tons				
	1st qtr	2nd qtr	3rd qtr	4th qtr	Total
2009	316	377	371	395	1,459
2010	439	399	424	383	1,645
2011	506	430	476	369	1,781
2012	426	388	352	332	1,498
2013	284	329	290	381	1,285

*Data are for brewers' and distillers' dregs and waste of which Distillers' Dried Grains with Soluble is a principal component. On November 2, 2010, data was revised.

Source: USDA, Economic Research Service (ERS), Feed grains database

Table 6. Quarterly ocean freight rate for bulk shipments from the U.S. Gulf to Veracruz, Mexico (US\$/metric ton)

Vessel capacity (metric ton)	1st qtr 2009	2nd qtr 2009	3rd qtr 2009	4th qtr 2009	Average
25,000	13.58	17.53	19.86	22.65	18.41
35-40,000	11.46	15.46	17.78	20.22	16.23
Vessel capacity (metric ton)	1st qtr 2010	2nd qtr 2010	3rd qtr 2010	4th qtr 2010	Average
25,000	23.04	23.83	24.33	21.89	23.27
35-40,000	20.75	22.34	21.64	19.83	21.14
Vessel capacity (metric ton)	1st qtr 2011	2nd qtr 2011	3rd qtr 2011	4th qtr 2011	Average
25,000	21.71	21.13	21.96	23.29	22.02
35-40,000	18.75	18.86	19.89	21.21	19.68
Vessel capacity (metric ton)	1st qtr 2012	2nd qtr 2012	3rd qtr 2012	4th qtr 2012	Average
25,000	20.28	20.79	20.68	18.73	20.12
35-40,000	18.37	18.62	18.53	16.73	18.06
Vessel capacity (metric ton)	1st qtr 2013	2nd qtr 2013	3rd qtr 2013	4th qtr 2013	Average
25,000	20.19	19.59	20.47	20.01	20.07
35-40,000	17.89	17.58	17.85	17.13	17.61

Source: O'Neil Commodity Consulting



Table 7. U.S. livestock exports to Mexico by border crossing* (head) October-December 2013

Border Crossing	NM	AZ	TX	Total
Beef cattle				
Slaughter	0	0	0	0
Breeding males	20	32	155	207
Breeding females	138	73	455	666
Total beef	158	105	610	873
Hogs				
Slaughter	0	0	0	0
Breeding males	0	0	252	252
Breeding females	0	266	2,530	2,796
Total hogs	0	266	2,782	3,048
Sheep				
Slaughter lambs	0	0	0	0
Slaughter ewes	0	0	10,144	10,144
Breeding males	0	0	0	0
Breeding females	0	0	0	0
Total sheep	0	0	10,144	10,144
Dairy cattle				
Breeding males	0	0	12	12
Breeding females	1,314	39	7,061	8,414
Total dairy	1,314	39	7,073	8,426
Goats				
Angora	0	0	0	0
Spanish	0	0	0	0
Other	0	0	0	0
Total goats	0	0	0	0
Horses				
Slaughter	2,658	0	24,908	27,566
Breeding males	200	164	529	893
Breeding females	254	171	873	1,298
Geldings	88	48	168	304
Burro/mule/pony	0	0	114	114
Total horses	3,200	383	26,592	30,175
Exotics**	0	0	73	73
Grand total	4,672	793	47,274	52,739

*Weekly AMS data will not necessarily sum to the total U.S. Dept. of Commerce, Bureau of Census data

**Refer to animals that are not included in other categories such as zebras, deer, elephants, and yaks.

Source: Agricultural Marketing Service (AMS), Livestock and Seed Programs



Table 8. Fruit and vegetable truck rates for shipments between 500 and 1,500 miles crossing the U.S.-Mexico border* (US\$/mile)

Origin/border crossing	1st qtr 2006	2nd qtr 2006	3rd qtr 2006	4th qtr 2006	Average
Nogales, Arizona	1.83	1.92	2.17	1.87	1.95
Pharr, Texas	1.77	1.82	1.61	1.54	1.68
Origin/border crossing	1st qtr 2007	2nd qtr 2007	3rd qtr 2007	4th qtr 2007	Average
Nogales, Arizona	1.77	2.03	2.36	1.99	2.04
Pharr, Texas	1.58	1.91	1.76	1.68	1.74
Origin/border crossing	1st qtr 2008	2nd qtr 2008	3rd qtr 2008	4th qtr 2008	Average
Nogales, Arizona	2.06	2.35	2.06	2.18	2.16
Pharr, Texas	1.78	2.21	1.91	1.74	1.91
Origin/border crossing	1st qtr 2009	2nd qtr 2009	3rd qtr 2009	4th qtr 2009	Average
Nogales, Arizona	1.93	1.74	1.26	1.86	1.70
Pharr, Texas	1.61	1.61	1.38	1.42	1.50
Origin/border crossing	1st qtr 2010	2nd qtr 2010	3rd qtr 2010	4th qtr 2010	Average
Nogales, Arizona	1.97	2.09	1.65	1.89	1.90
Pharr, Texas	1.60	1.86	1.53	1.58	1.64
Origin/border crossing	1st qtr 2011	2nd qtr 2011	3rd qtr 2011	4th qtr 2011	Average
Nogales, Arizona	1.87	2.38	1.85	1.80	1.97
Pharr, Texas	1.84	2.12	1.77	1.87	1.90
Origin/border crossing	1st qtr 2012	2nd qtr 2012	3rd qtr 2012	4th qtr 2012	Average
Nogales, Arizona	2.00	2.57	1.84	1.92	2.08
Pharr, Texas	1.97	2.26	1.89	2.09	2.05
Origin/border crossing	1st qtr 2013	2nd qtr 2013	3rd qtr 2013	4th qtr 2013	Average
Nogales, Arizona	2.34	2.59	1.63	2.33	2.22
Pharr, Texas	2.15	2.33	2.02	2.01	2.13

*Voluntarily reported to AMS, Market News
 Source: Agricultural Marketing Service (AMS), Fruit and Vegetable Programs



Table 9. Quarterly U.S.-Mexico border crossing fresh fruit and vegetables truck availability, 4th quarter, 2013

Legend:		Truck availability													
		1 = Surplus		2 = Slight Surplus		3 = Adequate		4 = Slight Shortage		5 = Shortage					
Mexico border crossings/month		October					November				December				
Week		10/1	10/8	10/15	10/22	10/29	11/5	11/12	11/19	11/26	12/3	12/10	12/17	12/24	12/31
Through Nogales, AZ	Melons, Mixed Vegetables						3	3	4	4	3	5	3	5	5
Through TX	Carrots, Citrus, Mixed Fruit and Vegetables, Plum Tomatoes				3	3	3	3	3	3	3	3	2	5	5

Source: USDA, Agricultural Marketing Service, Fruit and Vegetable Programs, Market News Branch, *Fruit and Vegetable Truck Rate Report*



Table 10. Top ten commodities shipped to the U.S. from Mexico (10,000 lbs)

Commodity	4th qtr 2013	Rank
Peppers, Other	34,713	1
Cucumbers	31,523	2
Avocados	30,766	3
Tomatoes	27,722	4
Squash	23,495	5
Limes	22,752	6
Tomatoes, plum type	21,070	7
Watermelons, seedless	18,072	8
Peppers, bell type	16,768	9
Misc Tropical	12,756	10

Source: USDA, AMS, Market News



Table 11. Top five commodities shipped to the U.S. from Mexico (10,000 lbs.)

Commodity	1st qtr 2008	2nd qtr 2008	3rd qtr 2008	4th qtr 2008	Total 2008
Tomatoes (all varieties)	66,049	53,659	15,156	26,271	161,135
Peppers (all varieties)	43,219	38,961	17,356	27,565	127,101
Watermelon	26,601	73,261	2,202	18,531	120,595
Limes	15,557	26,505	20,834	18,705	81,601
Cucumbers	31,017	29,092	5,415	21,587	87,111
Subtotal	182,443	221,478	60,963	112,659	577,543
Other	156,348	207,080	74,194	113,146	550,768
Total	338,791	428,558	135,157	225,805	1,128,311
Commodity	1st qtr 2009	2nd qtr 2009	3rd qtr 2009	4th qtr 2009	Total 2009
Tomatoes (all varieties)	62,337	64,976	21,173	44,530	193,016
Peppers (all varieties)	43,303	23,396	21,903	33,946	122,548
Watermelon	21,643	64,976	1,949	21,428	109,996
Limes	17,499	21,253	23,706	19,829	82,287
Cucumbers	32,819	20,464	8,059	29,719	91,061
Subtotal	177,601	195,065	76,790	149,452	598,908
Other	181,069	143,027	80,567	129,714	534,377
Total	181,069	338,092	157,357	279,166	955,684
Commodity	1st qtr 2010	2nd qtr 2010	3rd qtr 2010	4th qtr 2010	Total 2010
Tomatoes (all varieties)	113,379	77,048	34,226	43,291	267,944
Peppers (all varieties)	52,381	29,135	18,481	33,718	133,715
Cucumbers	39,925	23,695	9,314	30,169	103,103
Squash	24,242	12,827	2,852	19,740	59,661
Avocados	20,065	15,120	8,696	17,242	61,123
Subtotal	249,992	157,825	73,569	144,160	625,546
Other	178,749	264,046	116,397	133,112	692,304
Total	428,741	421,871	189,966	277,272	1,317,850

Source: Data is obtained from the Department of Homeland Security (DHS), U.S. Customs and Border Protection (CBP) through USDA, AMS, Market News

-continued on next page-



**Table 11. Top five commodities shipped to the U.S. from Mexico (10,000 lbs.)
-continued-**

Commodity	1st qtr 2011	2nd qtr 2011	3rd qtr 2011	4th qtr 2011	Total 2011
Tomatoes (all varieties)	93,831	61,825	40,136	40,329	236,121
Peppers (all varieties)	49,137	27,150	21,775	30,018	128,080
Cucumbers	31,749	27,481	9,879	22,275	91,384
Onions (dry and green)	30,159	20,994	6,747	7,090	64,990
Watermelon	25,181	66,908	3,082	14,777	109,948
Subtotal	230,057	204,358	81,619	114,489	630,523
Other	181,726	199,596	109,240	103,717	594,279
Total	411,783	403,954	190,859	218,206	1,224,802
Commodity	1st qtr 2012	2nd qtr 2012	3rd qtr 2012	4th qtr 2012	Total 2012
Tomatoes (all varieties)	99,264	69,282	41,120	57,099	266,765
Peppers (all varieties)	56,506	33,399	25,990	33,073	148,968
Cucumbers	42,668	25,798	11,919	30,383	110,768
Onions (dry and green)	29,949	20,020	8,122	8,744	66,835
Squash	26,776	16,033	3,401	19,556	65,766
Subtotal	255,163	164,532	90,552	148,855	659,102
Other	200,550	256,945	122,889	190,616	771,000
Total	455,713	421,477	213,441	339,471	1,430,102
Commodity	1st qtr 2013	2nd qtr 2013	3rd qtr 2013	4th qtr 2013	Total 2013
Tomatoes (all varieties)	88,753	75,505	43,373	52,154	259,785
Peppers (all varieties)	55,952	35,111	27,341	51,481	169,885
Avocados	38,933	26,387	15,049	30,766	111,135
Cucumbers	38,877	30,555	11,592	31,523	112,547
Onions (dry and green)	24,818	22,138	7,584	8,070	62,610
Subtotal	247,333	189,696	104,939	173,994	715,962
Other	206,944	271,688	126,051	168,680	773,363
Total	454,277	461,384	230,990	342,674	1,489,325

Source: Data is obtained from the Department of Homeland Security (DHS), U.S. Customs and Border Protection (CBP) through USDA, AMS, Market News



Table 12. Top ten U.S. containerized agricultural exports to Mexico*, 2013

1st qtr	Commodity	Quantity (mt)	# of TEUs**	Percentage share	Rank
	Dextrose, glucose	6,740	244	36	1
	Tobacco products	2,585	264	14	2
	Dairy products	1,760	104	9	3
	Frozen fish	1,463	125	8	4
	Grocery items	1,071	162	6	5
	Wine	973	66	5	6
	Vegetables	777	72	4	7
	Bitters, brandy, cognac	598	66	3	8
	Cheese, edam, gouda	504	32	3	9
	Tomatoes, prepared	298	52	2	10
Subtotal		16,768	1,189	89	
Other		2,001	209	11	
Total Exports		18,769	1,398	100	
2nd qtr	Commodity	Quantity (mt)	# of TEUs**	Percentage share	Rank
	Dextrose, glucose	4,864	163	24	1
	Dairy products	2,807	240	14	2
	Grocery items	2,541	327	13	3
	Cheese, edam, gouda	1,386	80	7	4
	Frozen fish	1,281	116	6	5
	Vegetables	852	81	4	6
	Tobacco products	654	78	3	7
	Bitters, brandy, cognac	646	63	3	8
	Meat	501	49	3	9
	Wine	475	32	2	10
Subtotal		16,009	1,229	80	
Other		3,894	480	20	
Total Exports		19,902	1,709	100	

*PIERS data will not necessarily sum to the total U.S. Dept. of Commerce, Bureau of Census data

**Twenty Foot Equivalent Unit (TEU) is a 20-foot shipping container

Source: Port Import Export Reporting Services (PIERS), 2013



Table 12. Top ten U.S. containerized agricultural exports to Mexico*, 2013

3rd qtr	Commodity	Quantity (mt)	# of TEUs**	Percentage share	Rank
	Grocery items	3,210	327	22	1
	Beer, ale	1,627	148	11	2
	Vegetables	1,233	100	8	3
	Fruit	1,122	113	8	4
	Meat	873	175	6	5
	Poultry	757	64	5	6
	Dairy products	636	41	4	7
	Cheese	491	45	3	8
	Candy, confections	486	46	3	9
	Wine	398	31	3	10
Subtotal		10,832	1,091	73	
Other		3,908	367	27	
Total Exports		14,739	1,458	100	
4th qtr	Commodity	Quantity (mt)	# of TEUs**	Percentage share	Rank
	Tobacco products	3,305	336	22	1
	Grocery items	1,782	171	12	2
	Rice	1,198	74	8	3
	Vegetables	1,171	77	8	4
	Soybeans	931	59	6	5
	Dairy products	672	40	5	6
	Wine	525	36	4	7
	Edible nuts	493	58	3	8
	Frozen fish	432	38	3	9
	Tomatoes, prepared	415	22	3	10
Subtotal		10,924	912	74	
Other		3,780	395	26	
Total Exports		14,704	1,307	100	

*PIERS data will not necessarily sum to the total U.S. Dept. of Commerce, Bureau of Census data

**Twenty Foot Equivalent Unit (TEU) is a 20-foot shipping container

Source: Port Import Export Reporting Services (PIERS), 2013



Table 13. U.S. agricultural container exports to Mexico by port*, 2012-2013

Mexican Port	2012	2013	Percentage share	Rank
	# of TEUs**			
Manzanillo	654	1,741	31	1
Progreso	348	890	16	2
Altamira	497	731	13	3
Puerto Morelos	488	506	9	4
Merida	728	341	6	5
Subtotal	2,715	4,209	75	
Other	1,735	1,426	25	
Total	4,450	5,636	100	

*PIERS data will not necessarily sum to the total U.S. Dept. of Commerce, Bureau of Census data

**Twenty Foot Equivalent Unit (TEU) is a 20-foot shipping container

Source: Port Import Export Reporting Services (PIERS), 2012 and 2013

Table 14. Top five U.S. bulk agricultural exports to Mexico*, 2012-2013

Commodity	2012	2013	Percentage share	Rank
	Quantity (mt)			
Bulk grains	3,598,594	1,636,315	39	1
Bread, cereal, flour	2,053,790	1,238,291	30	2
Soybeans	1,336,725	761,382	18	3
Rice	500,311	183,200	4	4
Animal feed	141,753	62,361	2	5
Subtotal	7,631,172	3,881,549	93	
Other	776,585	275,168	7	
Total Exports	8,407,757	4,156,717	100	

*PIERS data will not necessarily sum to the total U.S. Dept. of Commerce, Bureau of Census data

Source: Port Import Export Reporting Services (PIERS), Journal of Commerce, 2012 and 2013



Table 15. U.S. bulk agricultural exports to Mexico by receiving port*, 2012-2013

Mexican port	2012	2013	Percentage share	Rank
	Quantity (mt)			
Veracruz	5,416,205	2,674,038	64	1
Progreso	1,268,496	648,799	16	2
Coatzacoalcos	788,679	315,780	8	3
Tuxpan	473,021	299,345	7	4
Altamira	106,574	161,702	4	5
Subtotal	7,946,400	4,099,666	99	
Other	261,002	57,051	1	
Total Exports	8,207,402	4,156,717	100	

*PIERS data will not necessarily sum to the total U.S. Dept. of Commerce, Bureau of Census data
 Source: Port Import Export Reporting Services (PIERS), 2012 and 2013

Table 16. Top ten U.S. agricultural container exports to Mexico*, 2012-2013

Commodity	2012	2013	Percentage share	Rank
	# of TEUs**			
Dextrose, glucose	696	407	17	1
Grocery items	481	839	11	2
Tobacco products	463	686	10	3
Dairy products	337	423	9	4
Vegetables	255	328	6	5
Frozen fish	163	323	5	6
Cheese	120	167	4	7
Wine	123	163	3	8
Meat	78	288	3	9
Fruit	362	200	3	10
Subtotal	3,078	3,824	72	
Other	1,372	1,812	28	
Total Exports	4,450	5,636	100	

*PIERS data will not necessarily sum to the total U.S. Dept. of Commerce, Bureau of Census data
 **Twenty Foot Equivalent Unit (TEU) is a 20-foot shipping container
 Source: Port Import Export Reporting Services (PIERS), 2012 and 2013



Table 17. U.S. agricultural container exports to Mexico by port*, 2012-2013

Mexican Port	2012 4th qtr	2013 4th qtr	% Change	YTD 2012	YTD 2013	% Change
	# of TEUs**			# of TEUs**		
Altamira	175	339	94	497	731	47
ST Tomas Point	0	209	-	2	209	-
Progreso	147	197	34	348	890	156
Manzanillo	221	145	-34	654	1,741	166
Puerto Morelos	142	116	-18	488	506	4
Subtotal	684	1,006	47	1,989	4,077	105
Other	687	301	-56	2,460	1,559	-37
Total Exports	1,372	1,307	-5	4,450	5,636	27

*PIERS data will not necessarily sum to the total U.S. Dept. of Commerce, Bureau of Census data

**Twenty Foot Equivalent Unit (TEU) is a 20-foot shipping container

Source: Port Import Export Reporting Services (PIERS), 2012 and 2013



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Related Websites:

- ◆ [U.S. Grain and Soybean Exports to Mexico — A Modal Share Transportation Analysis \(PDF\)](#)
- ◆ [Grain Transportation Report](#)
- ◆ [Agricultural Refrigerated Truck Quarterly](#)

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Data Sets:

- ◆ Figure 1: Water route shipment costs to Veracruz, Mexico
- ◆ Figure 2: Land route shipment costs to Guadalajara, Mexico
- ◆ Figure 3: Average landed cost of U.S. corn, soybeans and wheat to Veracruz, Mexico during 2012-2013
- ◆ Figure 4: Average landed cost of U.S. corn, soybeans and wheat to Guadalajara, Mexico during 2012-2013
- ◆ Figure 5: Bulk ocean freight rates from the U.S. Gulf to Veracruz, Mexico, 2008-2013
- ◆ Figure 6: Livestock border crossing (head count), 2008-2013
- ◆
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