

# Mexico Transport Cost Indicator Report

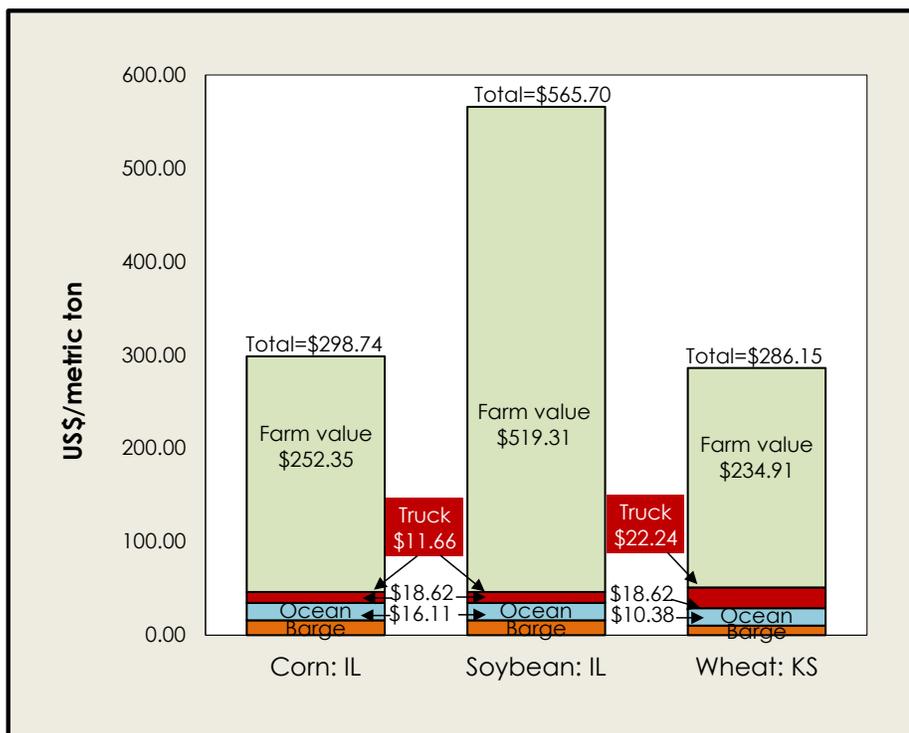


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[www.ams.usda.gov/AgTransportation](http://www.ams.usda.gov/AgTransportation)

## Grain and Soybeans

Mexico's grain production was adversely affected by extremely dry weather conditions during the marketing year (MY) 2011/12. According to USDA's Foreign Agricultural Service, the Mexican corn production estimate for marketing year (MY) 2011/12 (October/September) was revised down to 18.1 million metric tons (mmt) due to the irreversible yield losses caused by drought conditions during the critical phases of the corn crop (USDA, FAS GAIN Report #: MX2054). However, the forecast for MY 2012/13 production is more positive at 21.5 mmt due to higher planted area and favorable growing conditions caused by the on-time rainy season in some important corn-producing areas. MY 2012/13 Mexican corn import is estimated at 8.7 mmt, compared to 11.5 mmt for 2011/12. The MY 2012/13 (July/June) forecasts for wheat harvested area and production have been revised down due to lower planted area and adverse weather conditions. Production for this crop cycle is not estimated to be more than 3 mmt, and imports are at estimated at 4.2 mmt.

Figure 1. Water route shipment costs to Veracruz, Mexico



Source: USDA Agricultural Marketing Service

During January-June, Mexico imported a little over 6 mmt of corn from the United States, with about half of the imports, valued at \$870 million, made during the second quarter (USDA GATS). Second quarter imports were 16 percent above the same period last year by quantity and 7 percent more by value. Likewise, 2.1 mmt of wheat, valued at \$661.3 million, were imported during January-June, with close to half imported during the second quarter. Compared to the same period last year, second quarter imports were 44 percent higher by quantity and 24 percent more by value. During January-June, soybeans imported from the United States amounted to 1.7 mmt. Over half that amount

September 26, 2012

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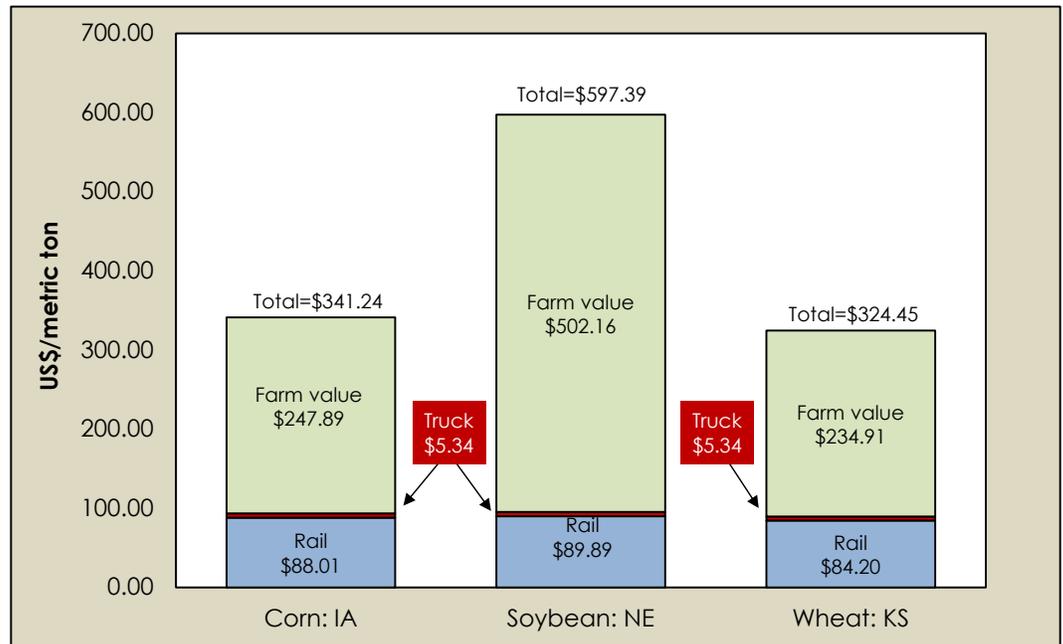


**Figure 2. Land route shipment costs to Guadalajara, Mexico**

was imported during the second quarter with a value of \$598 million. Third quarter imports were up 8 percent by quantity and 11 percent by value, compared to a year earlier.

The transportation costs for moving grain to Mexico via the water route declined during the second quarter and the costs of transporting by land increased (see table 1). Total transportation costs by water to the port of Veracruz decreased 1 percent for corn and soybeans from Illinois but increased 4 percent for wheat from Kansas.

Total transportation costs by land to Guadalajara increased 2 percent for Iowa corn and Nebraska soybeans and increased 1 percent for Kansas wheat, compared to the previous quarter. The reduction in seaborne transportation costs of corn and soybeans was mainly due to a decrease in barge rates that offset the increases in truck and ocean rates. However, the decrease in barge rates was not enough to offset increases in truck and ocean rates for shipping wheat from Kansas to Veracruz. Transportation costs for the land route were pushed up mainly by an increase in truck rates. While in general, ocean and rail tariff rates have remained relatively stable, truck rates have increased significantly for most locations, probably caused by increased demand for trucking services during the quarter. Landed costs ranged from \$286.15–\$565.70 per mt for the water route (figure 1) and ranged from \$324.45–\$597.39 per mt for the land route (figure 2). The transportation share of landed costs for the water route ranged from 8–18 percent and 16–28 percent for the land route.



Source: USDA Agricultural Marketing Service

### Rail Freight Rates and Volumes

Rail volumes of U.S. grain going to Mexico during the second quarter were about the same as second quarter 2011. DDGS volumes, however, were down 10 percent from the second quarter 2011. Rail tariff rates increased to \$6,695.14 per rail car, a 0.4 percent increase from the first quarter 2012 and an 8.3 percent increase from the second quarter of 2011. Fuel surcharges increased to \$697.15 per rail car, a 5.7 percent increase from the first quarter and a 9.5 percent increase from the second quarter 2011.

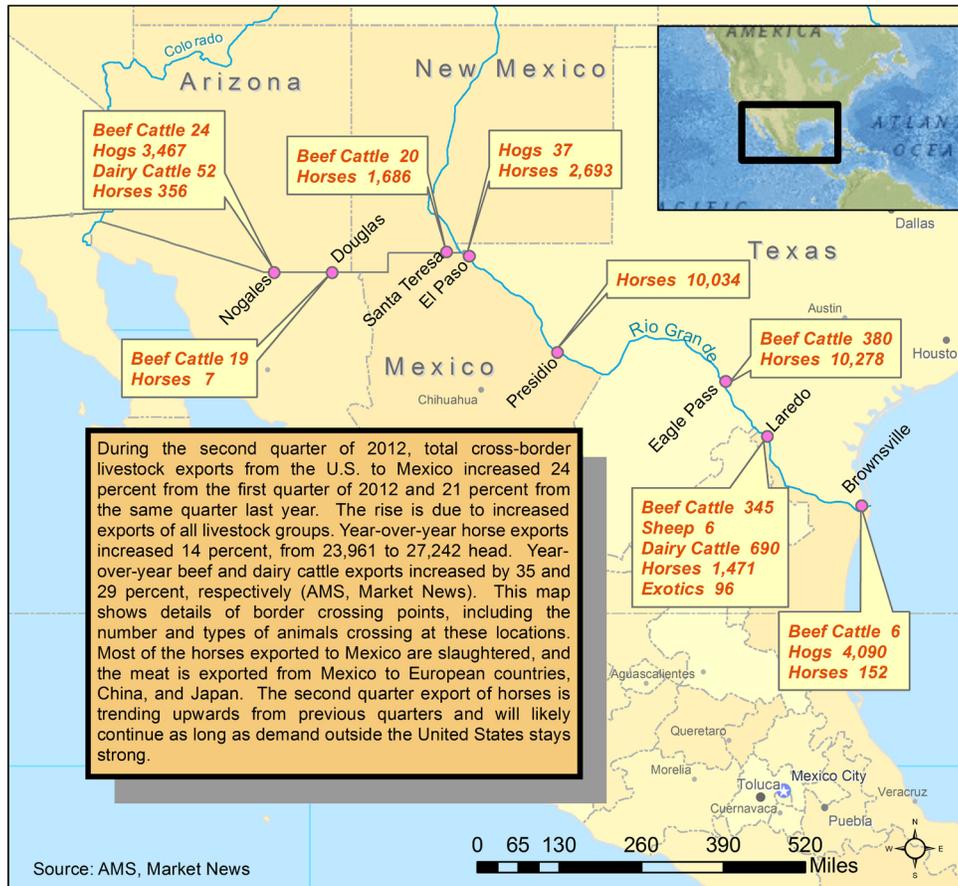
### Ocean Freight Rates

Ocean freight rates for shipping bulk grains to Mexico increased slightly during the second quarter, but they are lower than the same period a year ago and the 4-year averages. The cost of shipping a metric ton (mt) of grain from the U.S. Gulf to Veracruz in a 25,000 ton-capacity vessel averaged \$20.79 per mt during the quarter—up 3 percent from the previous quarter, and down 2 percent from last year and 16 percent from the 4-year average. The cost of shipping in a 35–40,000 ton-capacity vessel averaged \$18.62 per mt—up 1 percent from the previous quarter, and down 1 percent from last year and 17 percent from the 4-year average. Ocean rates for shipping bulk grains continued to be moderate due to increasing vessel supply and sluggish demand for bulk shipments (see GTR, dated 08/09/12). Moderate bulk rates could also be competing with containerized ocean rates; U.S. exports in containers to Mexico are 52 percent lower than last year at this time (see table 23).



## Livestock

### Livestock Border Crossing to Mexico during the 2nd quarter 2012



## Fruit and Vegetables

Mexican fruit and vegetable shipments by truck to the United States were up 4 percent from the second quarter of 2011. Tomatoes overtook watermelons as the top imported commodity, increasing 12 percent over last year. Imports of peppers were up 23 percent over last year, making them the third most-imported commodity. The latest Vegetables and Pulses Outlook mentions that warm, favorable weather in Mexico is responsible for the increase in shipments of tomatoes and peppers. In addition, protected agriculture for tomatoes continues to gain in popularity throughout North America, increasing production and lowering prices. Protected agriculture describes crops produced under some measure of cover. This can range from lower technology shade houses to technologically intensive greenhouses. In 2005, the origins of protected-agriculture tomatoes in U.S. markets were about evenly distributed among the U.S., Canada, and Mexico. By 2011, Mexican shipments to the U.S. had increased 248 percent to account for 71 percent of the market share for protected-agriculture tomatoes while Canada's share decreased to 27 percent. Protected agriculture now provides a year-round supply of tomatoes, eliminating many periods of short supply and higher prices.

Truck rates at Nogales (\$2.51) were down only one cent during the second quarter of 2012 from the same time last year, and truck rates at the Pharr, TX, border crossing (\$2.36) were up 7 percent. Except for a slight shortage in the first week, truck availability was mostly adequate during April for all commodities shipped through Texas and Arizona, which contrasts with the heavy shortage during the same period last year. However, a slight shortage began during the first three weeks of May for all commodities at the Texas crossing and became a full shortage through mid-June. In contrast, truck availability remained adequate until mid-May at the Arizona crossing, with a full shortage lasting three weeks until the first week of June, two weeks less than last year's shortage through Arizona.



# Quarterly Bulk Grain and Soybeans

**Table 1. Quarterly costs of transporting U.S. grain and soybeans to Mexico**

-----2012-----										
	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	9.14	11.66			10.40	3.58	5.34			4.46
Rail <sup>1</sup>						87.78	88.01			87.90
Ocean <sup>2</sup>	18.37	18.62			18.50					
Barge	19.38	16.11			17.75					
Total transportation cost	46.89	46.39			46.64	91.36	93.35			92.36
Farm price	248.81	252.35			250.58	241.98	247.89			244.94
Landed cost	295.70	298.74			297.22	333.34	341.24			337.29
Transport % of landed cost	15.9	15.5			15.7	27.4	27.4			27.4
Soybeans										
Origin	IL					NE				
Truck	9.14	11.66			10.40	3.58	5.34			4.46
Rail <sup>1</sup>						89.88	89.89			89.89
Ocean <sup>2</sup>	18.37	18.62			18.50					
Barge	19.38	16.11			17.75					
Total transportation cost	46.89	46.39			46.64	93.46	95.23			94.35
Farm price	460.52	519.31			489.92	440.92	502.16			471.54
Landed cost	507.41	565.70			536.56	534.38	597.39			565.89
Transport % of landed cost	9.2	8.2			8.7	17.5	15.9			16.7
Wheat										
Origin	KS					KS				
Truck	18.44	22.24			20.34	3.58	5.34			4.46
Rail <sup>1</sup>						84.71	84.20			84.46
Ocean <sup>2</sup>	18.37	18.62			18.50					
Barge	12.53	10.38			11.46					
Total transportation cost	49.34	51.24			50.29	88.29	89.54			88.92
Farm price	249.61	234.91			242.26	249.61	234.91			242.26
Landed cost	298.95	286.15			292.55	337.90	324.45			331.18
Transport % of landed cost	16.5	17.9			17.2	26.1	27.6			26.9

<sup>1</sup>Rail 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.

<sup>2</sup> Source: O'Neil Commodity Consulting, Inc.

Rail rates include fuel surcharges.



**Table 2. Quarterly tariff rail rates for U.S. bulk grain shipments to Mexico (US\$/car), 2012**

Commodity	Origin state	Destination	Tariff rate/car <sup>1</sup>				Fuel surcharge per car <sup>2</sup>					
			1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
Wheat	MT	Chihuahua, CI	7,741	7,741			7,741	568	638			603
	OK	Cuautitlan, EM	6,766	6,815			6,790	595	741			668
	KS	Guadalajara, JA	7,411	7,422			7,417	880	818			849
	TX	Salinas Victoria, NL	3,703	3,710			3,707	242	285			264
Corn	IA	Guadalajara, JA	7,699	7,699			7,699	892	915			904
	SD	Penjamo, GJ	7,776	7,776			7,776	743	835			789
	NE	Queretaro, QA	7,048	7,065			7,057	766	805			785
	SD	Salinas Victoria, NL	5,650	5,650			5,650	565	634			600
	MO	Tlalnepantla, EM	6,263	6,428			6,345	746	783			764
	SD	Torreon, CU	6,522	6,522			6,522	623	699			661
Soybeans	MO	Bojay (Tula), HG	6,946	7,126			7,036	777	782			780
	NE	Guadalajara, JA	7,904	7,904			7,904	892	894			893
	IA	El Castillo, JA	8,255	8,255			8,255	739	829			784
	KS	Torreon, CU	6,396	6,421			6,409	608	574			591
Sorghum	OK	Cuautitlan, EM	5,670	5,670			5,670	564	633			599
	TX	Guadalajara, JA	6,653	6,653			6,653	484	543			513
	NE	Penjamo, GJ	7,433	7,426			7,429	834	810			822
	KS	Queretaro, QA	6,353	6,425			6,389	528	512			520
	NE	Salinas Victoria, NL	5,103	5,128			5,115	502	559			531
	NE	Torreon, CU	6,068	6,068			6,068	646	652			649

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

<sup>2</sup>Approximate load per car = 97.87 mt: corn & sorghum 56 lbs/bu, wheat & soybeans 60 lbs/bu

Sources: [www.bnsf.com](http://www.bnsf.com), [www.uprr.com](http://www.uprr.com), [www.kcsouthern.com](http://www.kcsouthern.com)



**Table 3. Quarterly tariff plus fuel surcharge rail rates for U.S. bulk grain shipments to Mexico, 2012**

			Tariff <sup>1</sup> plus fuel surcharge per:									
			US\$/metric ton					US\$/bushel <sup>2</sup>				
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	84.90	85.61			85.26	2.31	2.33			2.32
	OK	Cuautitlan, EM	75.21	77.20			76.21	2.04	2.10			2.07
	KS	Guadalajara, JA	84.71	84.20			84.45	2.30	2.29			2.30
	TX	Salinas Victoria, NL	40.31	40.83			40.57	1.10	1.11			1.10
Corn	IA	Guadalajara, JA	87.78	88.01			87.89	2.23	2.23			2.23
	SD	Penjamo, GJ	87.05	87.98			87.51	2.21	2.23			2.22
	NE	Queretaro, QA	79.84	80.41			80.13	2.03	2.04			2.03
	SD	Salinas Victoria, NL	63.50	64.21			63.86	1.61	1.63			1.62
	MO	Tlalnepanitla, EM	71.62	73.67			72.65	1.82	1.87			1.84
	SD	Torreon, CU	73.00	73.78			73.39	1.85	1.87			1.86
Soybeans	MO	Bojay (Tula), HG	78.91	80.81			79.86	2.15	2.20			2.17
	NE	Guadalajara, JA	89.88	89.89			89.88	2.44	2.44			2.44
	IA	Penjamo (Celaya), GJ	91.90	92.82			92.36	2.50	2.52			2.51
	KS	Torreon, CU	71.57	71.47			71.52	1.95	1.94			1.94
Sorghum	OK	Cuautitlan, EM	63.70	64.41			64.05	1.62	1.63			1.63
	TX	Guadalajara, JA	72.92	73.53			73.22	1.85	1.87			1.86
	NE	Penjamo, GJ	84.47	84.15			84.31	2.14	2.14			2.14
	KS	Queretaro, QA	70.30	70.88			70.59	1.78	1.80			1.79
	NE	Salinas Victoria, NL	57.26	58.10			57.68	1.45	1.47			1.46
	NE	Torreon, CU	68.60	68.67			68.63	1.74	1.74			1.74

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

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

Sources: [www.bnsf.com](http://www.bnsf.com), [www.uprr.com](http://www.uprr.com), [www.kcsouthern.com](http://www.kcsouthern.com)



**Table 4. Tariff Rail Rates for U.S. Distillers' Dried Grains (DDGS) Shipments to Mexico Destinations (US\$/metric ton), 2012**

Origin BEA <sup>2</sup>	Border Crossing	Destination	Tariff rate/metric ton <sup>1</sup>					Fuel surcharge/metric ton				
			1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
Des Moines, IA	Eagle Pass	Guadalajara, JA	97.36	97.36			97.36	13.00	13.78			13.39
	El Paso	Guadalajara, JA	97.20	97.20			97.20	12.97	13.73			13.35
	Eagle Pass	Aguascalientes, AGS	88.55	88.55			88.55	11.27	12.00			11.64
	El Paso	Aguascalientes, AGS	88.78	88.78			88.78	11.31	12.03			11.67
	Eagle Pass	Yurecuaro, MIC	91.07	91.07			91.07	11.76	12.51			12.14
	El Paso	Yurecuaro, MIC	91.34	91.34			91.34	11.81	12.55			12.18
	Eagle Pass	Torreon, COA	83.46	83.46			83.46	10.27	10.98			10.62
	El Paso	Torreon, COA	83.63	83.63			83.63	10.30	10.99			10.64
Minneapolis, MN	Eagle Pass	Guadalajara, JA	105.70	105.70			105.70	14.42	15.42			14.92
	El Paso	Guadalajara, JA	104.12	104.12			104.12	13.73	14.58			14.15
	Eagle Pass	Aguascalientes, AGS	96.89	96.89			96.89	12.68	13.64			13.16
	El Paso	Aguascalientes, AGS	95.70	95.70			95.70	12.08	12.88			12.48
	Eagle Pass	Yurecuaro, MIC	99.41	99.41			99.41	13.18	14.15			13.66
	El Paso	Yurecuaro, MIC	98.26	98.26			98.26	12.58	13.40			12.99
	Eagle Pass	Torreon, COA	91.80	91.80			91.80	11.68	12.61			12.15
	El Paso	Torreon, COA	90.55	90.55			90.55	11.06	11.84			11.45
Sioux Falls, SD	Eagle Pass	Guadalajara, JA	105.87	105.87			105.87	13.58	14.48			14.03
	El Paso	Guadalajara, JA	105.93	105.93			105.93	13.19	14.03			13.61
	Eagle Pass	Aguascalientes, AGS	97.06	97.06			97.06	11.85	12.71			12.28
	El Paso	Aguascalientes, AGS	97.51	97.51			97.51	11.53	12.33			11.93
	Eagle Pass	Yurecuaro, MIC	99.58	99.58			99.58	12.35	13.21			12.78
	El Paso	Yurecuaro, MIC	100.07	100.07			100.07	12.04	12.84			12.44
	Eagle Pass	Torreon, COA	91.97	91.97			91.97	10.85	11.68			11.27
	El Paso	Torreon, COA	92.36	92.36			92.36	10.52	11.29			10.90

<sup>1</sup> 1 to 24 railcars per shipment. C-114 heavy axle load railcars loaded to 90 metric tons per railcar.

<sup>2</sup> Business Economic Areas (BEA) as defined by the Department of Commerce.

Sources: Gavilon de Mexico S.A. de C.V. for the Mexican portion of the rates and BNSF Railway and Union Pacific Railroad for the U.S. portion of the rates.



**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
2008	247	284	332	325	1,188
2009	316	377	371	395	1,459
2010	439	399	424	383	1,645
2011	506	430	476	369	1,781
2012	426	388			

\*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			20.54
35-40,000	18.37	18.62			18.50

Source: O'Neil Commodity Consulting



**Table 7. U.S. livestock exports to Mexico by border crossing\* (head) April-June 2012**

Border Crossing	NM	AZ	TX	Total
<b>Beef cattle</b>				
Slaughter	0	0	0	0
Breeding males	29	43	145	217
Breeding females	0	0	586	586
Total beef	29	43	731	803
<b>Hogs</b>				
Slaughter	0	0	0	0
Breeding males	0	168	422	590
Breeding females	0	3,299	3,705	7,004
Total hogs	0	3,467	4,127	7,594
<b>Sheep</b>				
Slaughter lambs	0	0	0	0
Slaughter ewes	0	0	0	0
Breeding males	0	0	0	0
Breeding females	0	0	6	6
Total sheep	0	0	6	6
<b>Dairy cattle</b>				
Breeding males	0	8	10	18
Breeding females	775	44	680	1,499
Total dairy	775	52	690	1,517
<b>Goats</b>				
Angora	0	0	0	0
Spanish	0	0	0	0
Other	0	0	0	0
Total goats	0	0	0	0
<b>Horses</b>				
Slaughter	1,194	0	23,838	25,032
Breeding males	308	164	338	810
Breeding females	404	155	456	1,015
Geldings	120	44	118	282
Burro/mule/pony	0	0	103	103
Total horses	2,026	363	24,853	27,242
<b>Exotics**</b>	0	0	96	96
<b>Grand total</b>	<b>2,830</b>	<b>3,925</b>	<b>30,503</b>	<b>37,258</b>

\*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 selected U.S.-Mexico border crossing\* (US\$/mile)**

Origin/border crossing	1st qtr 2006	2nd qtr 2006	3rd qtr 2006	4th qtr 2006	Average
Nogales, Arizona	1.70	1.77	2.22	1.78	1.87
Pharr, Texas	1.75	1.80	1.64	1.63	1.71
Origin/border crossing	1st qtr 2007	2nd qtr 2007	3rd qtr 2007	4th qtr 2007	Average
Nogales, Arizona	1.90	1.89	2.05	2.00	1.96
Pharr, Texas	1.65	1.83	1.86	1.74	1.77
Origin/border crossing	1st qtr 2008	2nd qtr 2008	3rd qtr 2008	4th qtr 2008	Average
Nogales, Arizona	1.96	2.24	2.80	1.97	2.24
Pharr, Texas	1.93	2.19	2.12	1.87	2.03
Origin/border crossing	1st qtr 2009	2nd qtr 2009	3rd qtr 2009	4th qtr 2009	Average
Nogales, Arizona	1.72	2.01	2.15	1.79	1.92
Pharr, Texas	1.70	1.71	1.59	1.58	1.65
Origin/border crossing	1st qtr 2010	2nd qtr 2010	3rd qtr 2010	4th qtr 2010	Average
Nogales, Arizona	1.97	2.25	2.26	2.23	2.17
Pharr, Texas	1.70	2.02	1.67	1.69	1.77
Origin/border crossing	1st qtr 2011	2nd qtr 2011	3rd qtr 2011	4th qtr 2011	Average
Nogales, Arizona	1.88	2.52	2.17	2.20	2.19
Pharr, Texas	1.97	2.20	1.98	2.08	2.06
Origin/border crossing	1st qtr 2012	2nd qtr 2012	3rd qtr 2012	4th qtr 2012	Average
Nogales, Arizona	2.12	2.51			
Pharr, Texas	2.11	2.36			

\*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, 2nd quarter, 2012**

Legend:		Truck availability													
														1 = Surplus	2 = Slight Surplus
3 = Adequate		4 = Slight Shortage													
5 = Shortage															
Mexico border crossings/month		April				May					June				
Week		4/3	4/10	4/17	4/24	5/1	5/8	5/15	5/22	5/29	6/5	6/12	6/19	6/26	
Through TX	Broccoli	4	3	3	3										
	Carrots, Citrus	4	3	3	3	4	4	4	5	5	5	5	3	3	
	Cucumbers	4													
	Mangoes					4	4	4	5	5	5	5	3	3	
	Mixed Fruit and Vegetables	4	3	3	3	4	4	4	5	5	5	5	3	3	
	Plum Tomatoes							4	5	5	5	5	3	3	
	Roma Tomatoes					4	4								
	Tomatoes	4	3	3	3										
Through Nogales, AZ	Grapes							4	5	5	5	3	3	3	
	Mangoes, Melons, Mixed Vegetables	5	4	3	3	3	3	4	5	5	5	3	3	3	

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	2nd quarter 2012	Rank
Tomatoes	69,282	1
Watermelon	60,108	2
Peppers	33,399	3
Grapes	30,027	4
Mangoes	28,122	5
Cucumbers	25,798	6
Limes	24,960	7
Onions	20,020	8
Avocados	19,830	9
Squash	16,033	10

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



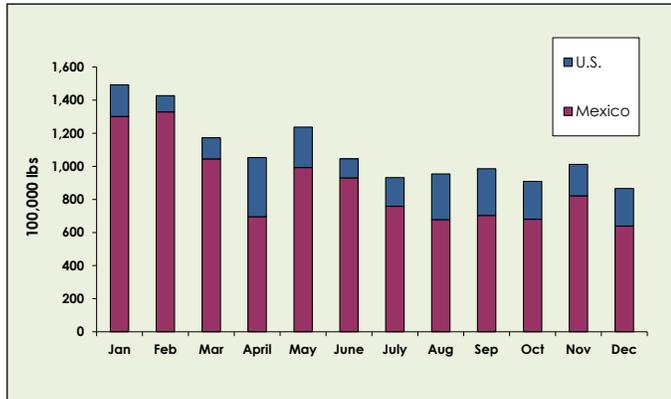
**Table 11. Top five commodities shipped to the U.S. from Mexico (10,000 lbs.)**

Commodity	1st qtr 2009	2nd qtr 2009	3rd qtr 2009	4th qtr 2009	Total 2009
Tomatoes, Plum	62,337	64,976	21,173	44,530	193,016
Peppers	43,303	23,396	21,903	33,946	122,548
Watermelon, Seedless	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
<b>Subtotal</b>	<b>177,601</b>	<b>195,065</b>	<b>76,790</b>	<b>149,452</b>	<b>598,908</b>
Other	181,069	143,027	80,567	129,714	534,377
<b>Total</b>	<b>181,069</b>	<b>338,092</b>	<b>157,357</b>	<b>279,166</b>	<b>955,684</b>
Commodity	1st qtr 2010	2nd qtr 2010	3rd qtr 2010	4th qtr 2010	Total 2010
Tomatoes, Plum	113,379	77,048	34,226	43,291	267,944
Peppers	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
<b>Subtotal</b>	<b>249,992</b>	<b>157,825</b>	<b>73,569</b>	<b>144,160</b>	<b>625,546</b>
Other	178,749	264,046	116,397	133,112	692,304
<b>Total</b>	<b>428,741</b>	<b>421,871</b>	<b>189,966</b>	<b>277,272</b>	<b>1,317,850</b>
Commodity	1st qtr 2011	2nd qtr 2011	3rd qtr 2011	4th qtr 2011	Total 2011
Tomatoes	93,831	61,825	40,136	40,329	236,121
Peppers	49,137	27,150	21,775	30,018	128,080
Cucumbers	31,749	27,481	9,879	22,275	91,384
Onions	30,159	20,994	6,747	7,090	64,990
Watermelon	25,181	66,908	3,082	14,777	109,948
<b>Subtotal</b>	<b>230,057</b>	<b>204,358</b>	<b>81,619</b>	<b>114,489</b>	<b>630,523</b>
Other	181,726	199,596	109,240	103,717	594,279
<b>Total</b>	<b>411,783</b>	<b>403,954</b>	<b>190,859</b>	<b>218,206</b>	<b>1,224,802</b>
Commodity	1st qtr 2012	2nd qtr 2012	3rd qtr 2012	4th qtr 2012	Total 2012
Tomatoes	99,264	69,282			168,546
Peppers	56,506	33,399			89,905
Cucumbers	42,668	25,798			68,466
Onions	29,949	20,020			49,969
Squash	26,776	16,033			42,809
<b>Subtotal</b>	<b>255,163</b>	<b>164,532</b>			<b>419,695</b>
Other	200,550	256,945			457,495
<b>Total</b>	<b>455,713</b>	<b>421,477</b>			<b>877,190</b>

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

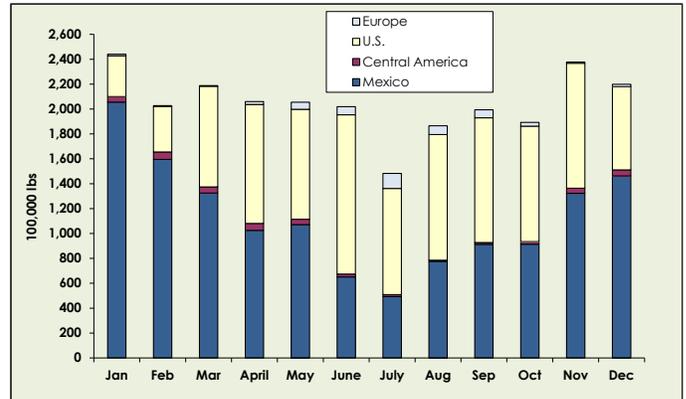


**Figure 3. Monthly U.S. shipments of domestic and imported plum tomatoes, 2011**



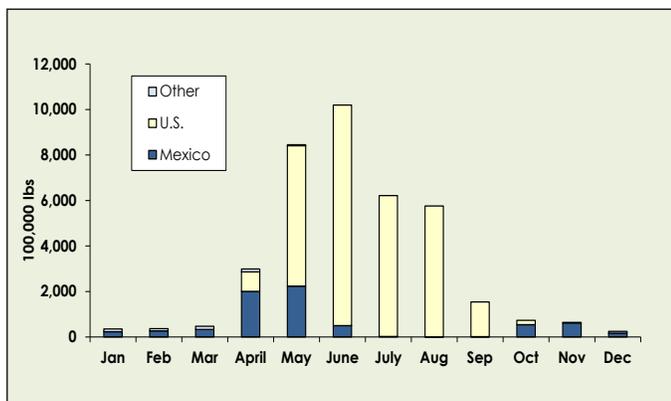
Source: Agricultural Marketing Service (AMS), USDA

**Figure 4. Monthly U.S. shipments of domestic and imported peppers (all varieties), 2011**



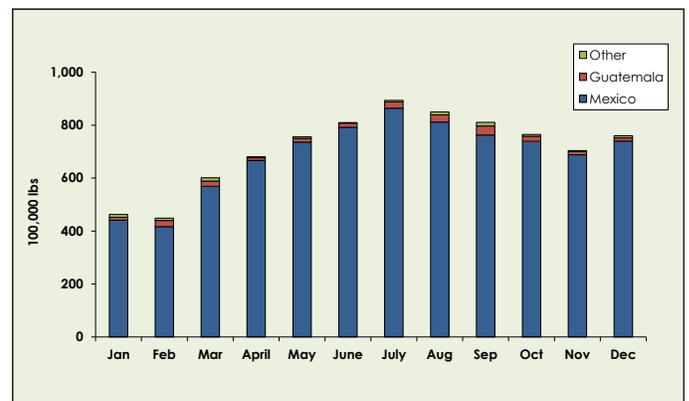
Source: Agricultural Marketing Service (AMS), USDA

**Figure 5. Monthly U.S. shipments of domestic and imported seedless watermelons, 2011**



Source: Agricultural Marketing Service (AMS), USDA

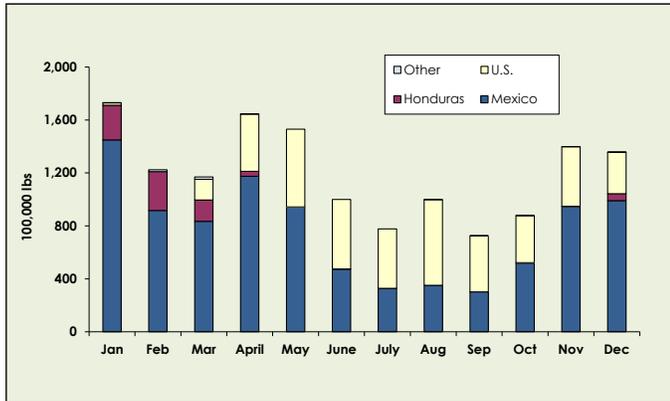
**Figure 6. Monthly U.S. shipments of domestic and imported limes, 2011**



Source: Agricultural Marketing Service (AMS), USDA

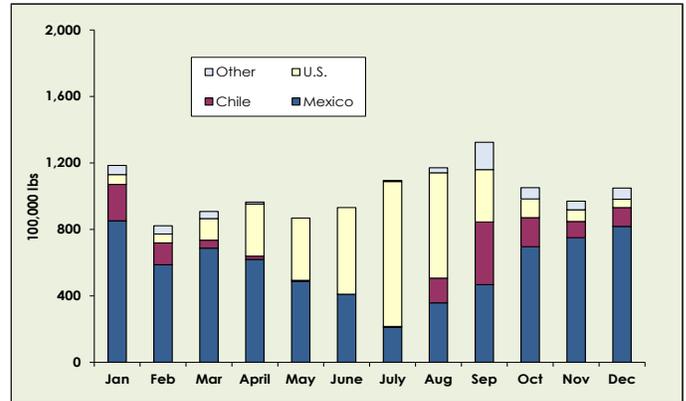


**Figure 7. Monthly U.S. shipments of domestic and imported cucumbers, 2011**



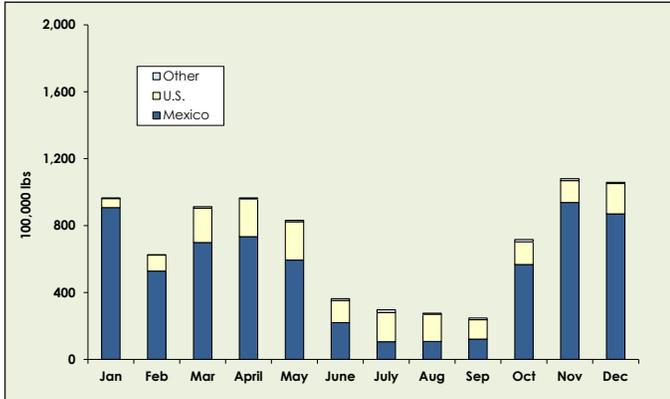
Source: Agricultural Marketing Service (AMS), USDA

**Figure 8. Monthly U.S. shipments of domestic and imported avocados, 2011**



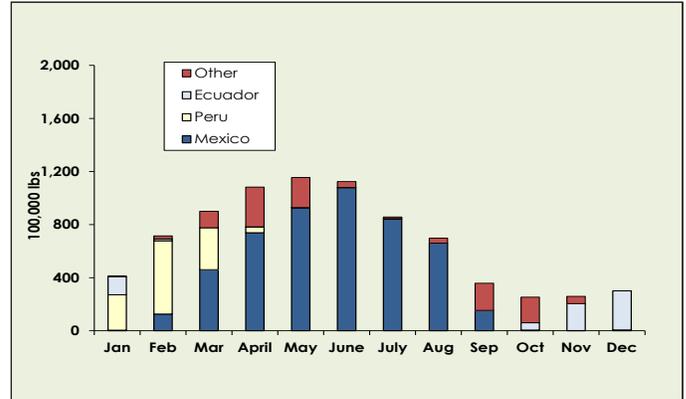
Source: Agricultural Marketing Service (AMS), USDA

**Figure 9. Monthly U.S. shipments of domestic and imported squash, 2011**



Source: Agricultural Marketing Service (AMS), USDA

**Figure 10. Monthly U.S. shipments of domestic and imported mangoes, 2011**



Source: Agricultural Marketing Service (AMS), USDA



**Table 12. Top ten U.S. containerized agricultural exports to Mexico\*, 2012**

1st qtr	Commodity	Quantity (mt)	# of TEUs**	Percentage share	Rank
	Vegetables	4,235	168	32	1
	Tobacco products	1,638	166	13	2
	Dextrose, glucose	1,046	66	8	3
	Coffee	945	57	7	4
	Dairy products	640	88	5	5
	Wine	639	74	5	6
	Beer, ale	371	23	3	7
	Grocery items	371	38	3	8
	Bulbs & seeds	362	25	3	9
	Edible nuts	300	41	2	10
<b>Subtotal</b>		<b>10,547</b>	<b>746</b>	<b>81</b>	
Other		2,499	231	19	
<b>Total Exports</b>		<b>13,046</b>	<b>977</b>	<b>100</b>	
2nd qtr	Commodity	Quantity (mt)	# of TEUs**	Percentage share	Rank
	Dextrose, glucose	5,171	196	39	1
	Tobacco products	1,398	151	10	2
	Dairy products	1,000	58	7	3
	Grocery items	826	102	6	4
	Cheese, edam, gouda	745	41	6	5
	Fruit	491	42	4	6
	Liquor, bitters	442	51	3	7
	Wine	426	29	3	8
	Vegetables	353	33	3	9
	Tomatoes, prepared	324	19	2	10
<b>Subtotal</b>		<b>11,175</b>	<b>722</b>	<b>83</b>	
Other		2,246	225	17	
<b>Total Exports</b>		<b>13,421</b>	<b>946</b>	<b>100</b>	

\*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



**Table 13. Top five U.S. bulk agricultural exports to Mexico\*, 2010-2011**

Commodity	2010	2011	Percentage share	Rank
	Quantity (mt)			
Bulk grains	3,262,754	3,584,153	46	1
Bread, cereal, flour	1,397,970	1,430,153	18	2
Soybeans	1,303,882	993,827	13	3
Rice	509,612	579,825	7	4
Vegetables	98,702	439,123	6	5
<b>Subtotal</b>	<b>6,572,920</b>	<b>7,027,081</b>	<b>91</b>	
Other	427,276	713,369	9	
<b>Total Exports</b>	<b>7,000,196</b>	<b>7,740,450</b>	<b>100</b>	

\*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, 2011

**Table 14. U.S. bulk agricultural exports to Mexico by receiving port\*, 2010-2011**

Mexican port	2010	2011	Percentage share	Rank
	Quantity (mt)			
Veracruz	4,847,113	5,171,025	67	1
Progreso	1,151,637	1,154,845	15	2
Coatzacoalcos	656,708	704,571	9	3
Tuxpan	338,249	498,342	6	4
Manzanillo	40	89,589	1	5
<b>Subtotal</b>	<b>6,993,747</b>	<b>7,618,372</b>	<b>98</b>	
Other	6,449	122,078	2	
<b>Total Exports</b>	<b>7,000,196</b>	<b>7,740,450</b>	<b>100</b>	

\*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), 2011



**Table 15. Top ten U.S. agricultural container exports to Mexico\*, 2011**

Commodity	2011	Percentage share	Rank
	# of TEUs**		
Tobacco products	852	14	1
Vegetables	793	13	2
Dextrose, glucose	672	11	3
Dairy products	606	10	4
Fruit	541	9	5
Grocery items	501	8	6
Edible nuts	327	5	7
Beer, ale	204	3	8
Wine	203	3	9
Coffee	187	3	10
<b>Subtotal</b>	<b>4,886</b>	<b>78</b>	
Other	1,403	22	
<b>Total Exports</b>	<b>6,289</b>	<b>100</b>	

\*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), 2011



**Table 16. Top 5 U.S. agricultural container shipments to Mexico by port\*, 2010-2011**

U.S. region**	Mexican port	2010	2011	% change
		Number of TEUs***		
U.S. Gulf	Manzanillo	17	-	-
Pacific Northwest		1,184	865	-27.0
West Coast		652	1,139	74.7
East Coast		100	100	0.5
<b>Subtotal</b>		<b>1,953</b>	<b>2,104</b>	<b>7.7</b>
U.S. Gulf	Lázaro Cárdenas	-	-	-
Pacific Northwest		193	35	-81.9
West Coast		753	1,058	40.5
East Coast		-	4	-
<b>Subtotal</b>		<b>946</b>	<b>1,097</b>	<b>16.0</b>
U.S. Gulf	Altamira	307	-	-
Pacific Northwest		-	-	-
West Coast		1	-	-
East Coast		242	866	257.8
<b>Subtotal</b>		<b>550</b>	<b>866</b>	<b>57.4</b>
U.S. Gulf	Merida	486	700	44.1
Pacific Northwest		-	-	-
West Coast		-	-	-
East Coast		-	-	-
<b>Subtotal</b>		<b>486</b>	<b>700</b>	<b>44.1</b>
U.S. Gulf	Vera Cruz	-	199	-
Pacific Northwest		-	-	-
West Coast		-	-	-
East Coast		393	239	-39.3
<b>Subtotal</b>		<b>393</b>	<b>438</b>	<b>11.3</b>
<b>Total of Top 5 Ports</b>		<b>4,328</b>	<b>5,205</b>	<b>20.3</b>
<b>Other Ports</b>		<b>804</b>	<b>1,084</b>	<b>34.8</b>
<b>TOTAL</b>		<b>5,132</b>	<b>6,289</b>	<b>22.5</b>

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

\*\*U.S. Gulf includes Houston, New Orleans, Port Everglades

Pacific Northwest includes Seattle, Portland

West Coast includes Oakland, Long Beach, Los Angeles

East Coast includes New York, Baltimore, Norfolk, Charleston, Savannah, Jacksonville, West Palm Beach, Miami

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

Source: Port Import Export Reporting Services (PIERS), 2011



**Table 17. U.S. agricultural container exports to Mexico by port\*, 2010-2011**

Mexican Port	2010	2011	Percentage share	Rank
	# of TEUs**			
Manzanillo	1,953	2,104	33	1
Lazaro Carden	952	1,097	17	2
Altamira	396	866	14	3
Merida	99	700	11	4
Vera Cruz	565	438	7	5
<b>Subtotal</b>	<b>3,965</b>	<b>5,205</b>	<b>83</b>	
Other	1,167	1,084	17	
<b>Total Exports</b>	<b>5,132</b>	<b>6,289</b>	<b>100</b>	

\*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), 2011

**Table 18. U.S. agricultural container exports to Mexico by port\*, 2011-2012**

Mexican Port	2011 2nd qtr	2012 2nd qtr	% Change	YTD 2011	YTD 2012	% Change
	# of TEUs**			# of TEUs**		
Merida	195	203	4	363	382	5
Manzanillo	661	145	-78	1,591	285	-82
Altamira	232	153	-34	691	320	-54
Puerto Morelos	83	123	49	106	216	103
Vera Cruz	330	86	-74	486	124	-75
<b>Subtotal</b>	<b>1,501</b>	<b>711</b>	<b>-53</b>	<b>3,236</b>	<b>1,326</b>	<b>-59</b>
Other	227	235	4	782	597	-24
<b>Total</b>	<b>1,728</b>	<b>946</b>	<b>-45</b>	<b>4,018</b>	<b>1,923</b>	<b>-52</b>

\*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), 2011 and 2012



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- ◆ [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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- ◆ Table 16: Top 5 U.S. agricultural container shipments to Mexico by port, 2010-2011
- ◆ Table 17: U.S. agricultural container exports to Mexico by port, 2010-2011
- ◆ Table 18: U.S. agricultural container exports to Mexico by port, 2011-2012

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