

Mexico Transport Cost Indicator Report



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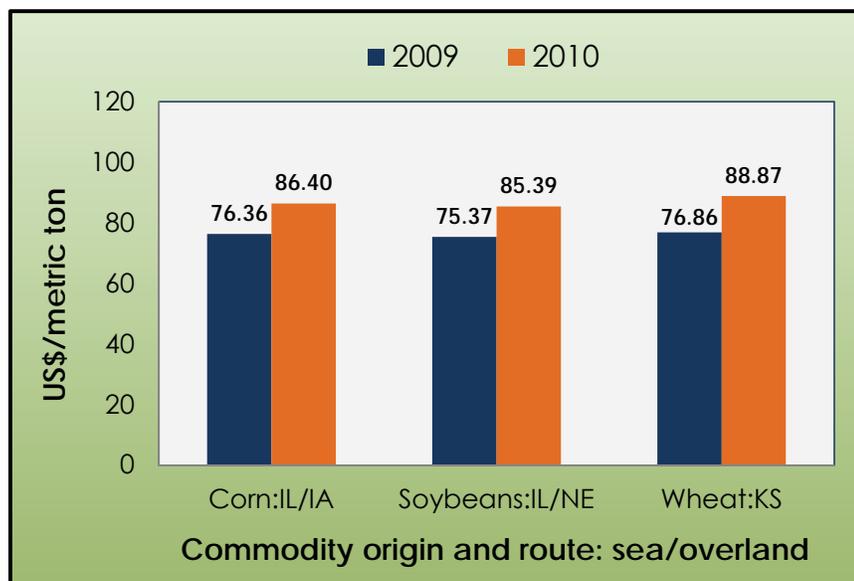
U.S. Agricultural Exports to Mexico

Mexico was replaced by China as the second largest destination of U.S. agricultural exports after Canada. U.S. agricultural exports to Mexico increased 13 percent by value, from \$13.4 billion in 2009 to \$15.1 billion in 2010. Because of the increased exports, transportation demand to Mexico for U.S. agricultural commodities increased in 2010. U.S. bulk agricultural commodities exported to Mexico amounted to about 17.9 million metric tons, worth \$5.4 billion, up 9 percent from 2009. The appreciation of the dollar against the Mexican peso and heavy Chinese purchases of U.S. agricultural products such as soybeans, cotton, soybean oil, and red meats caused U.S. agricultural shipments to China to grow at a faster rate than shipments to Mexico. In Fiscal year (FY) 2011, China is forecast to surpass Mexico again. According to Mexico's [National Institute of Statistics and Geography \(INEGI\)](#) the economy expanded more than 5 percent during 2010. The [International Monetary Fund \(IMF\)](#) forecasts that the Mexican economy will grow 4.2 and 4.8 percent in 2011 and 2012, respectively.

Grain and Soybeans

2010 costs for shipping increase. On average, the cost of shipping grains and soybeans by land and water routes from the United States to Guadalajara, Mexico, increased 14 percent from 2009 costs (figure 1). Grain and soybean transportation costs rose to \$86.89 per metric ton (mt) in 2010 from \$76.86 in 2009 because of higher rail and ocean rates. Ocean rates rose 23–30 percent, making shipments by water more expensive than land routes (table 1). The 2010 total water transportation cost for moving corn and soybeans was \$91.23/mt and \$99.47 per mt for wheat (table 1). The cost of shipping by land was \$81.57, \$79.56, and \$78.29 per mt for corn, soybeans, and wheat, respectively. During 2010, transportation as a percentage of the total landed cost averaged 36 percent for corn, 19 percent for soybeans, and 29–35 percent for wheat.

Figure 1. Average cost of shipping U.S. corn, wheat, and soybeans to Guadalajara, Mexico, 2009–2010*



*Average cost of shipping by land and water routes
Source: Agricultural Marketing Service (AMS), United States Department of Agriculture (USDA)

March 9, 2011

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Table 1. Cost of transporting U.S. grain and soybeans to Guadalajara, Mexico, 2008-2010

	Water route				Land route			
	2008	2009	2010	% change	2008	2009	2010	% change
	US\$/metric ton				US\$/metric ton			
Corn								
Origin	IL				IA			
Truck	11.50	10.01	9.45	-5.6	4.73	4.76	4.47	-6.2
Rail ¹	37.48	33.81	39.81	17.7	79.73	70.00	77.11	10.2
Ocean ²	24.97	16.23	21.14	30.3				
Barge	25.90	17.92	20.83	16.3				
Total transportation cost	99.85	77.96	91.23	17.0	84.47	74.76	81.57	9.1
Farm price	188.11	145.83	151.73	4.1	188.11	150.06	151.86	1.2
Landed cost	287.96	223.79	242.96	8.6	272.58	224.82	233.43	3.8
Transport % of landed cost	34.74	34.87	37.73	8.2	31.09	33.34	35.10	5.3
Soybeans								
Origin	IL				NE			
Truck	11.50	10.01	9.45	-5.9	4.73	4.76	4.47	-6.2
Rail ¹	37.48	33.81	39.81	15.1	79.24	68.02	75.09	10.4
Ocean ²	24.97	16.23	21.14	23.2				
Barge	25.90	17.92	20.83	14.0				
Total transportation cost	99.85	77.96	91.23	14.5	83.97	72.78	79.56	9.3
Farm price	428.58	377.91	372.40	-1.5	416.25	301.70	360.85	19.6
Landed cost	528.43	455.87	463.62	1.7	500.22	374.47	440.41	17.6
Transport % of landed cost	18.94	17.14	19.71	13.0	16.90	21.52	18.10	-15.9
Wheat								
Origin	KS				KS			
Truck	41.79	23.43	24.49	4.5	5.34	3.81	4.47	17.1
Rail ¹	33.88	33.81	39.81	17.7	67.67	63.99	73.81	15.4
Ocean ²	26.70	16.23	21.14	30.3				
Barge	15.41	12.45	14.03	12.7				
Total transportation cost	117.78	85.92	99.47	15.8	73.01	67.80	78.28	15.5
Farm price	340.74	186.11	187.82	0.9	284.67	186.11	187.82	0.9
Landed cost	458.52	272.03	287.29	5.6	357.68	253.91	266.10	4.8
Transport % of landed cost	25.69	31.73	35.02	10.4	20.95	26.88	29.85	11.0

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. Rail rates include fuel surcharges

²Source: O'Neil Commodity Consulting, Inc.



- Rail Rates.** Tariff rates for selected destinations to Mexico increased due to a shift in traffic demand during the 2010 economic recovery. Rail rates (tariff rate plus fuel surcharge) increased about 8 percent during 2010 (table 2). During 2010, on average, wheat rates increased 11.2 percent while corn, soybean, and sorghum rates increased 5–8 percent (table 2).

Table 2. Tariff plus fuel surcharge rail rates for U.S. bulk grain shipments to Mexico, 2008-2010

			Tariff ¹ plus fuel surcharge per:							
			US\$/metric ton				US\$/bushel ²			
Commodity	Origin state	Destination	2008	2009	2010	% change	2008	2009	2010	% change
Wheat	MT	Chihuahua, CI	69.72	66.12	72.93	10.30	1.90	1.80	1.98	10.30
	OK	Cuautitlan, EM	61.94	59.28	65.22	10.03	1.68	1.61	1.77	10.03
	KS	Guadalajara, JA	67.67	64.75	73.81	13.99	1.84	1.76	2.01	13.99
	TX	Salinas Victoria, NL	33.35	31.99	35.05	9.54	0.91	0.87	0.95	9.54
	Average			58.17	55.54	61.75	11.2	1.58	1.51	1.68
Corn	IA	Guadalajara, JA	79.73	70.45	77.11	9.45	2.02	1.79	1.96	9.45
	SD	Penjamo, GJ	81.70	71.52	75.43	5.48	2.07	1.81	1.91	5.48
	NE	Queretaro, QA	71.99	66.03	68.30	3.44	1.83	1.68	1.73	3.44
	SD	Salinas Victoria, NL	58.27	52.80	54.15	2.56	1.48	1.34	1.37	2.56
	MO	Tlalnepantla, EM	64.97	57.74	59.86	3.68	1.65	1.47	1.52	3.68
	SD	Torreon, CU	68.44	59.87	62.95	5.16	1.74	1.52	1.60	5.16
	Average			70.85	63.07	66.30	5.1	1.80	1.60	1.68
Soybeans	MO	Bojay (Tula), HG	72.50	63.98	69.03	7.88	1.97	1.74	1.88	7.88
	NE	Guadalajara, JA	79.24	68.44	75.09	9.72	2.15	1.86	2.04	9.72
	IA	Penjamo (Celaya), GJ ³	80.94	70.65	77.72	10.00	2.20	1.92	2.11	10.00
	KS	Torreon, CU	61.46	54.80	59.27	8.16	1.67	1.49	1.61	8.16
	Average			73.53	64.47	70.28	8.3	2.00	1.75	1.91
Sorghum	OK	Cuautitlan, EM	54.17	49.07	52.25	6.49	1.37	1.25	1.33	6.49
	TX	Guadalajara, JA	57.48	54.61	62.61	14.65	1.46	1.39	1.59	14.65
	NE	Penjamo, GJ	74.51	68.09	72.82	6.95	1.89	1.73	1.85	6.95
	KS	Queretaro, QA	62.36	58.33	59.83	2.57	1.58	1.48	1.52	2.57
	NE	Salinas Victoria, NL	51.57	47.39	48.48	2.30	1.31	1.20	1.23	2.30
	NE	Torreon, CU	61.85	55.90	59.69	6.79	1.57	1.42	1.51	6.79
	Average			60.32	55.56	59.28	6.3	1.53	1.41	1.50

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

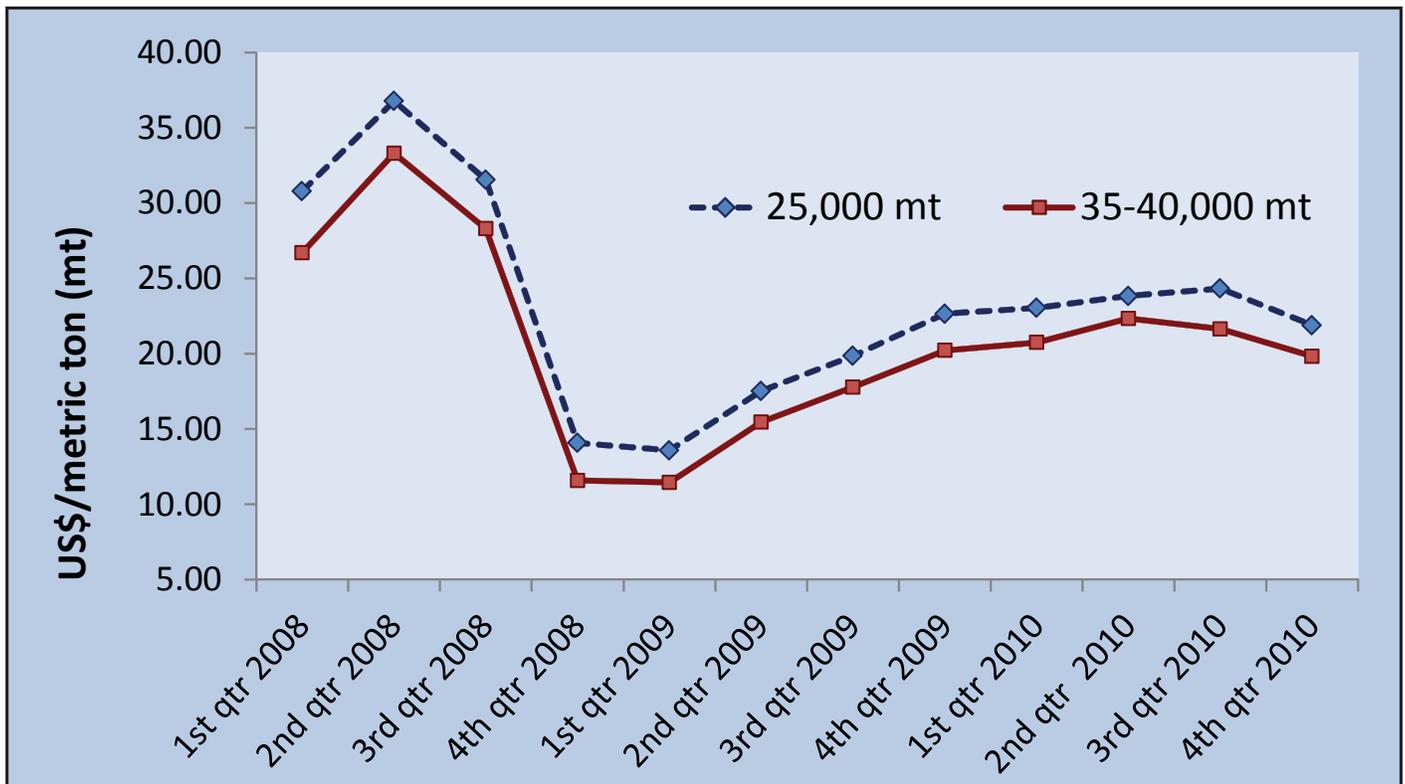
³El Castillo, JA replaced Penjamo, GJ beginning December 2010.

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



- Ocean.** Ocean freight rates for shipping bulk grain from the United States to Mexico increased during 2010 as the global economy gradually improved. However, the average rates were below 2008 levels. Ocean rates were pushed up by increases in world bulk demand, especially from China. The ocean rate for shipping a metric ton (mt) of grain in a vessel with a capacity of 25,000 mt averaged \$23.27 during 2010—up 26 percent from 2009 (figure 2). The cost per metric ton of shipping 35–40,000 mt of grain averaged \$21.14 during 2010—30 percent higher than 2009. Rates are expected to remain moderate through 2011 because bulk vessel supply is still outpacing the demand.

Figure 2. Bulk ocean freight rates from the U.S. Gulf to Veracruz, Mexico, 2008-2010



Vessel capacity (metric ton)	2008	2009	2010	% change
	US\$/mt			
25,000	28.3	18.41	23.27	26
35-40,000	24.97	16.23	21.14	30

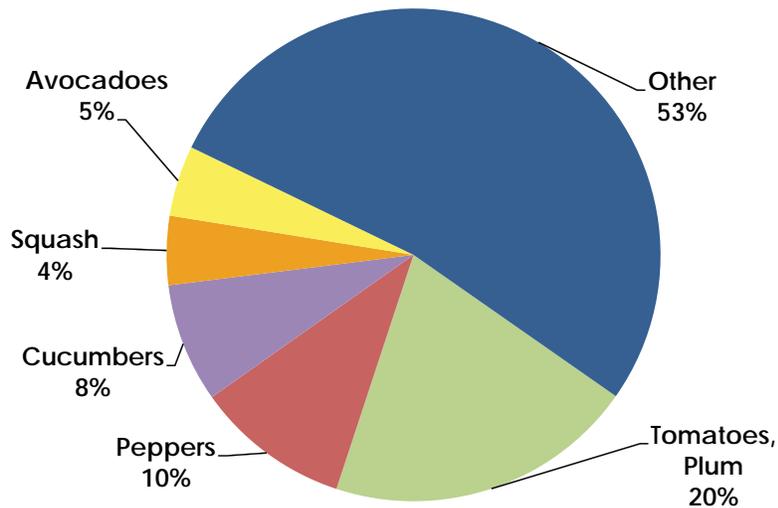
Source: O'Neil Commodity Consultant



Fruit and Vegetables

The majority of Mexico's agricultural exports to the United States consist of horticultural products and fresh and prepared fruit and vegetables which are mostly carried by truck. Truck rates for border crossings through Texas increased nearly 8 percent over the previous year, averaging \$1.77 per mile. Rates for crossings through Arizona increased almost 13 percent from \$1.92 in 2009 to \$2.17 per mile in 2010. During 2010, plum tomatoes were the top commodity shipped to the United States from Mexico, followed by peppers, cucumbers, avocados, and squash (figure 3). Annual shipments from Mexico increased 16 percent from 11.33 billion pounds in 2009 to 13.17 billion pounds in 2010.

Figure 3. Top five fruit and vegetables shipped to the U.S. from Mexico, 2010



Source: DHS, CBP, through USDA, AMS, Market News

Agricultural Container

Agricultural Container Shipments to Mexico Decreased. The number of U.S. twenty-foot equivalent units (TEU) of agricultural containerized shipments to Mexico decreased in 2010 to 5,132 TEUs, down 13 percent from 2009 (5,919 TEUs) (table 16). Vegetables were the number one exported commodity, followed by dairy products, coffee, fruit, and tobacco products. Vegetables accounted for 20 percent of containerized export commodities, compared to 11 percent in 2009. Almost 700 more TEUs of vegetables were shipped to Mexico this year than last year.

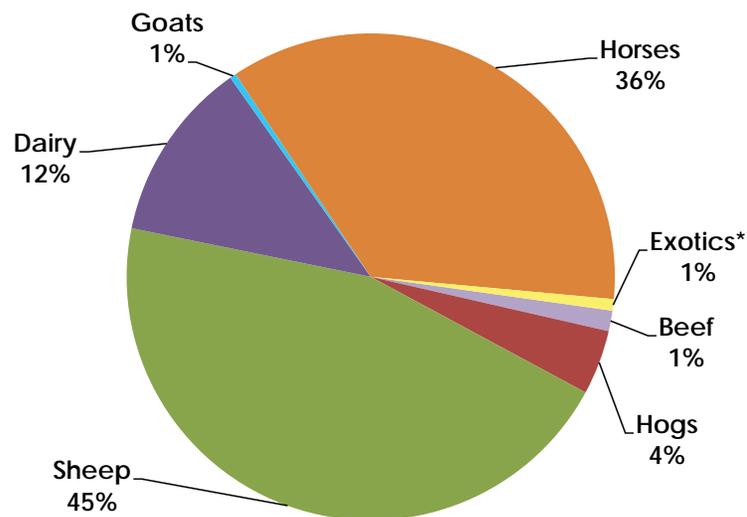
The Port of Manzanillo has been the top recipient port of U.S. containers for the last 4 years, moving 1,953 TEUs, 41 percent of the total number of containers shipped to Mexico in 2010. It is located on the Pacific Ocean; an expansive rail system moves imported products inland to major population centers. Lázaro Cárdenas ranked as the number two receiving port with 952 TEUs (18 percent) for 2010, followed by Progreso (13 percent), Vera Cruz (10 percent) and Altamira (6 percent).



Livestock

U.S. Livestock Border Crossing to Mexico Increases. During the Mexican economic recovery, livestock border crossing improved. The greatest livestock exports are sheep, followed by horses and dairy cattle (figure 4). Texas is the top U.S. sheep producer and accounted for all the sheep and goat border crossings to Mexico (table 9). Mexico remains the primary destination for U.S. beef (*Livestock, Dairy, and Poultry Outlook, ERS*). Livestock and meat exports to Mexico increased 12 percent by value because of higher cattle prices and appreciation of the U.S. dollar against the Mexican peso.

Figure 4: Livestock border crossing to Mexico by category, 2010



*Refer to animals that are not included in other categories such as zebras, deer, elephants, and yaks
 Source: USDA, Agricultural Marketing Service (AMS), Livestock and Seed Programs



Table 3. Quarterly costs of transporting U.S. grain and soybeans to Guadalajara, Mexico

-----2010-----										
	Water route					Land route				
	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
	US\$/metric ton					US\$/metric ton				
Corn										
Origin	IL					IA				
Truck	10.46	8.66	9.74	8.94	9.45	5.00	4.23	4.89	3.74	4.47
Rail ¹	39.01	39.86	40.09	40.26	39.81	75.30	76.25	76.54	80.34	77.11
Ocean ²	20.75	22.34	21.64	19.83	21.14					
Barge	18.08	16.17	22.87	26.20	20.83					
Total transportation cost	88.30	87.03	94.34	95.23	91.23	80.30	80.48	81.43	84.08	81.57
Farm price	139.63	135.43	148.15	183.72	151.73	144.87	136.34	145.92	180.31	151.86
Landed cost	227.93	222.46	242.49	278.95	242.96	225.17	216.82	227.35	264.39	233.43
Transport % of landed cost	38.74	39.12	38.90	34.14	37.73	35.66	37.12	35.82	31.80	35.10
Soybeans										
Origin	IL					NE				
Truck	10.46	8.66	9.74	8.94	9.45	5.00	4.23	4.89	3.74	4.47
Rail ¹	39.01	39.86	40.09	40.26	39.81	73.08	74.83	75.12	77.33	75.09
Ocean ²	20.75	22.34	21.64	19.83	21.14					
Barge	18.08	16.17	22.87	26.20	20.83					
Total transportation cost	88.30	87.03	94.34	95.23	91.23	78.08	79.06	80.01	81.07	79.56
Farm price	354.09	350.41	371.11	413.98	372.40	344.90	341.84	356.41	400.26	360.85
Landed cost	442.39	437.44	465.45	509.21	463.62	422.98	420.90	436.42	481.33	440.41
Transport % of landed cost	19.96	19.90	20.27	18.70	19.71	18.46	18.78	18.33	16.84	18.10
Wheat										
Origin	KS					KS				
Truck	21.29	24.54	27.91	24.23	24.49	5.00	4.23	4.89	3.74	4.47
Rail ¹	39.01	39.86	40.09	40.26	39.81	71.00	72.54	74.62	77.09	73.81
Ocean ²	20.75	22.34	21.64	19.83	21.14					
Barge	11.24	8.64	17.46	18.78	14.03					
Total transportation cost	92.29	95.38	107.10	103.10	99.47	76.00	76.77	79.51	80.83	78.28
Farm price	162.53	151.02	198.91	238.83	187.82	162.53	151.02	198.91	238.83	187.82
Landed cost	254.82	246.40	306.01	341.93	287.29	238.53	227.79	278.42	319.66	266.10
Transport % of landed cost	36.22	38.71	35.00	30.15	35.02	31.86	33.70	28.56	25.29	29.85

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.
 Rail rates include fuel surcharges

²Source: O'Neil Commodity Consulting, Inc.



Table 4. Quarterly tariff rail rates for U.S. bulk grain shipments to Mexico (US\$/car), 2010

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	6,262	6,291	6,429	6,705	6,422	627	721	747	727	706
	OK	Cuautitlan, EM	5,712	5,770	5,857	6,006	5,836	477	546	572	572	542
	KS	Guadalajara, JA	6,182	6,276	6,436	6,685	6,395	489	823	867	860	760
	TX	Salinas Victoria, NL	3,139	3,200	3,292	3,388	3,255	155	176	184	186	175
Corn	IA	Guadalajara, JA	6,637	6,670	6,670	7,017	6,748	568	792	820	847	757
	SD	Penjamo, GJ	6,440	6,440	6,440	6,520	6,460	821	925	954	946	911
	NE	Queretaro, QA	6,150	6,130	6,130	6,240	6,163	461	523	549	553	521
	SD	Salinas Victoria, NL	4,570	4,570	4,570	4,785	4,624	624	677	698	704	676
	MO	Tlalnepantla, EM	5,340	5,318	5,318	5,428	5,351	449	509	535	539	508
	SD	Torreon, CU	5,330	5,330	5,330	5,610	5,400	687	762	786	788	756
Soybeans	MO	Bojay (Tula), HG	5,994	6,049	6,066	6,103	6,053	488	704	730	726	662
	NE	Guadalajara, JA	6,442	6,550	6,550	6,753	6,574	559	774	802	815	738
	IA	El Castillo, JA	6,590	6,657	6,690	6,773	6,677	815	934	966	945	915
	KS	Torreon, CU	5,180	5,238	5,255	5,458	5,283	368	521	541	536	491
Sorghum	OK	Cuautitlan, EM	4,349	4,339	4,339	4,729	4,439	623	676	697	703	675
	TX	Guadalajara, JA	5,283	5,350	5,350	5,670	5,413	534	735	758	677	676
	NE	Penjamo, GJ	6,395	6,395	6,395	6,421	6,402	511	727	753	750	685
	KS	Queretaro, QA	5,423	5,398	5,398	5,603	5,455	356	402	418	423	400
	NE	Salinas Victoria, NL	4,319	4,282	4,282	4,440	4,331	372	416	432	437	414
	NE	Torreon, CU	5,240	5,240	5,240	5,437	5,289	421	553	574	579	532

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 5. Quarterly tariff plus fuel surcharge rail rates for U.S. bulk grain shipments to Mexico, 2010

Commodity	Origin state	Destination	US\$/metric ton				US\$/bushel ²					
			1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
Wheat	MT	Chihuahua, CI	70.39	71.65	73.32	75.94	72.82	1.91	1.95	1.99	2.06	1.98
	OK	Cuautitlan, EM	63.24	64.53	65.68	67.21	65.17	1.72	1.75	1.79	1.83	1.77
	KS	Guadalajara, JA	68.16	72.54	74.62	77.09	73.10	1.85	1.97	2.03	2.10	1.99
	TX	Salinas Victoria, NL	33.66	34.49	35.51	36.51	35.04	0.92	0.94	0.97	0.99	0.95
Corn	IA	Guadalajara, JA	73.61	76.25	76.54	80.34	76.69	1.87	1.93	1.94	2.04	1.95
	SD	Penjamo, GJ	74.19	75.25	75.55	76.28	75.32	1.88	1.91	1.92	1.94	1.91
	NE	Queretaro, QA	67.55	67.97	68.25	69.41	68.30	1.71	1.72	1.73	1.76	1.73
	SD	Salinas Victoria, NL	53.07	53.61	53.83	56.08	54.15	1.35	1.36	1.37	1.42	1.37
	MO	Tlalnepantla, EM	59.15	59.53	59.80	60.97	59.86	1.50	1.51	1.52	1.55	1.52
	SD	Torreon, CU	61.48	62.25	62.50	65.37	62.90	1.56	1.58	1.59	1.66	1.60
Soybeans	MO	Bojay (Tula), HG	66.23	69.00	69.44	69.78	68.61	1.80	1.88	1.89	1.90	1.87
	NE	Guadalajara, JA	71.53	74.83	75.12	77.33	74.70	1.94	2.03	2.04	2.14	2.04
	IA	Penjamo (Celaya), GJ	75.67	77.56	78.22	78.86	77.58	2.06	2.11	2.13	2.20	2.12
	KS	Torreon, CU	56.68	58.84	59.22	61.25	59.00	1.54	1.60	1.61	1.70	1.61
Sorghum	OK	Cuautitlan, EM	50.80	51.24	51.46	55.50	52.25	1.29	1.30	1.31	1.42	1.33
	TX	Guadalajara, JA	59.44	62.17	62.41	64.85	62.22	1.51	1.58	1.58	1.63	1.57
	NE	Penjamo, GJ	70.57	72.77	73.03	73.27	72.41	1.79	1.85	1.85	1.90	1.85
	KS	Queretaro, QA	59.04	59.26	59.43	61.57	59.83	1.50	1.50	1.51	1.58	1.52
	NE	Salinas Victoria, NL	47.93	48.00	48.17	49.83	48.48	1.22	1.22	1.22	1.29	1.24
	NE	Torreon, CU	57.84	59.19	59.40	61.47	59.48	1.47	1.50	1.51	1.58	1.51

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 6. Quarterly tariff rail rates for U.S. Distillers' Dried Grains with Soluble (DDGS) shipments to the Mexico border (US\$/car), 2010

Origin state	Destination	Tariff rate/car ¹					Fuel surcharge per car				
		1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	Avg
IA	Eagle Pass, TX	3,700	3,700	3,700	3,800	3,725	482	523	539	543	522
MN		4,000	4,100	4,300	4,400	4,200	667	723	746	752	722
NE		3,700	3,700	3,700	3,800	3,725	454	492	508	512	491
SD		4,000	4,017	4,050	4,150	4,054	570	618	638	643	617
IA	El Paso, TX	3,620	3,620	3,620	3,720	3,645	443	480	496	499	480
MN		3,920	4,020	4,220	4,320	4,120	631	685	707	712	684
NE		3,620	3,620	3,620	3,720	3,645	385	436	450	454	431
SD		3,920	3,937	3,970	4,070	3,974	513	563	580	585	560

¹Rates are based upon published tariff rates for unit trains. Unit trains are available for qualified shipments of 80-100 cars. Fuel surcharges were revised. Source: www.bnsf.com

Table 7. 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
2007	164	170	184	190	708
2008	247	284	332	325	1,188
2009	316	377	371	395	1,459
2010	439	399	424		1,262

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

Vessel capacity (metric ton)	1st qtr 2008	2nd qtr 2008	3rd qtr 2008	4th qtr 2008	Average
25,000	30.79	36.77	31.55	14.08	28.3
35-40,000	26.7	33.3	28.3	11.58	24.97
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

Source: O'Neil Commodity Consulting



**Table 9. U.S. livestock exports to Mexico by border crossings*,
January-December, 2010 (head)**

Category					
Border Crossing	TX	NM	AZ	CA	Total
Beef cattle					
Slaughter	0	0	0	0	0
Breeding males	567	183	175	0	925
Breeding females	843	451	187	0	1,481
Total beef	1,410	634	362	0	2,406
Hogs					
Slaughter	0	0	0	0	0
Breeding males	1,281	0	0	0	1,281
Breeding females	3,127	0	3,161	0	6,288
Total hogs	4,408	0	3,161	0	7,569
Sheep					
Slaughter lambs	0	0	0	0	0
Slaughter ewes	79,855	0	0	0	79,855
Breeding males	59	0	0	0	59
Breeding females	0	0	0	0	0
Total sheep	79,914	0	0	0	79,914
Dairy cattle					
Breeding males	42	4	1	0	47
Breeding females	10,178	10,571	439	0	21,188
Total dairy	10,220	10,575	440	0	21,235
Goats					
Angora	0	0	0	0	0
Spanish	710	0	0	0	710
Other	22	0	0	0	22
Total goats	732	0	0	0	732
Horses					
Slaughter	42,413	10,167	0	0	52,580
Breeding males	2,179	1,150	483	0	3,812
Breeding females	3,234	1,638	600	0	5,472
Geldings	526	478	129	0	1,133
Burro/mule/pony	130	0	5	0	135
Total horses	48,482	13,433	1,217	0	63,132
Exotics**	737	600	0	0	1,337
Grand total	145,903	25,242	5,180	0	176,325

*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 10. Quarterly U.S. livestock exports to Mexico through Texas border crossing* (head)

Category	1st qtr 2010	2nd qtr 2010	3rd qtr 2010	4th qtr 2010	Total
Beef cattle					
Slaughter	0	0	0	0	0
Breeding males	128	207	91	141	567
Breeding females	137	158	335	213	843
Total beef	265	365	426	354	1,410
Hogs					
Slaughter	0	0	0	0	0
Breeding males	400	134	321	426	1,281
Breeding females	1,383	640	796	308	3,127
Total hogs	1,783	774	1,117	734	4,408
Sheep					
Slaughter lambs	0	0	0	0	0
Slaughter ewes	21,360	25,871	21,473	11,151	79,855
Breeding males	0	0	59	0	59
Breeding females	0	0	0	0	0
Total sheep	21,360	25,871	21,532	11,151	79,914
Dairy cattle					
Breeding males	14	25	0	3	42
Breeding females	3,862	2,678	1,520	2,118	10,178
Total dairy	3,876	2,703	1,520	2,121	10,220
Goats					
Angora	0	0	0	0	0
Spanish	375	60	270	5	710
Other	0	0	0	22	22
Total goats	375	60	270	27	732
Horses					
Slaughter	9,028	11,090	10,760	11,535	42,413
Breeding males	559	371	466	783	2,179
Breeding females	859	679	665	1,031	3,234
Geldings	150	145	91	140	526
Burro/mule/pony	25	29	24	52	130
Total horses	10,621	12,314	12,006	13,541	48,482
Exotics**	274	170	148	145	737
Grand total	38,554	42,257	37,019	28,073	145,903

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



Table 11. Quarterly U.S. livestock exports to Mexico through New Mexico border crossing* (head)

Category	1st qtr 2010	2nd qtr 2010	3rd qtr 2010	4th qtr 2010	Total
Beef cattle					
Slaughter	0	0	0	0	0
Breeding males	38	58	0	81	177
Breeding females	0	7	0	401	408
Total beef	38	65	0	482	585
Hogs					
Slaughter	0	0	0	0	0
Breeding males	0	0	0	0	0
Breeding females	0	0	0	0	0
Total hogs	0	0	0	0	0
Sheep					
Slaughter lambs	0	0	0	0	0
Slaughter ewes	0	0	0	0	0
Breeding males	0	0	0	0	0
Breeding females	0	0	0	0	0
Total sheep	0	0	0	0	0
Dairy cattle					
Breeding males	0	4	0	0	4
Breeding females	4,658	2,720	1,331	1,862	10,571
Total dairy	4,658	2,724	1,331	1,862	10,575
Goats					
Angora	0	0	0	0	0
Spanish	0	0	0	0	0
Other	0	0	0	0	0
Total goats	0	0	0	0	0
Horses					
Slaughter	2,141	1,349	2,152	4,525	10,167
Breeding males	210	314	260	366	1,150
Breeding females	297	457	330	554	1,638
Geldings	104	149	74	151	478
Burro/mule/pony	0	0	0	0	0
Total horses	2,752	2,269	2,816	5,596	13,433
Exotics**	0	600	0	0	600
Grand total	7,448	5,658	4,147	7,940	25,193

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



Table 12. Quarterly U.S. livestock exports to Mexico through Arizona border crossing* (head)

Category	1st qtr 2010	2nd qtr 2010	3rd qtr 2010	4th qtr 2010	Total
Beef cattle					
Slaughter	0	0	0	0	0
Breeding males	34	35	88	18	175
Breeding females	16	27	65	79	187
Total beef	50	62	153	97	362
Hogs					
Slaughter	0	0	0	0	0
Breeding males	0	0	0	0	0
Breeding females	403	182	378	2,198	3,161
Total hogs	403	182	378	2,198	3,161
Sheep					
Slaughter lambs	0	0	0	0	0
Slaughter ewes	0	0	0	0	0
Breeding males	0	0	0	0	0
Breeding females	0	0	0	0	0
Total sheep	0	0	0	0	0
Dairy cattle					
Breeding males	0	0	0	1	1
Breeding females	39	0	229	171	439
Total dairy	39	0	229	172	440
Goats					
Angora	0	0	0	0	0
Spanish	0	0	0	0	0
Other	0	0	0	0	0
Total goats	0	0	0	0	0
Horses					
Slaughter	0	0	0	0	0
Breeding males	73	138	75	197	483
Breeding females	98	148	84	270	600
Geldings	19	23	22	65	129
Burro/mule/pony	0	0	5	0	5
Total horses	190	309	186	532	1,217
Exotics**	0	0	0	0	0
Grand total	682	553	946	2,999	5,180

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



Fruit and Vegetables

Table 13. 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

*Voluntarily reported to AMS, Market News

Source: Agricultural Marketing Service (AMS), Fruit and Vegetable Programs



Table 14. Quarterly U.S.-Mexico border crossing fresh fruit and vegetables truck availability, 4th quarter, 2010

Legend:		Truck availability												
1 = Surplus	2 = Slight Surplus													
3 = Adequate	4 = Slight Shortage													
5 = Shortage														
Mexico border crossings/month		October				November				December				
Week		10/5	10/12	10/19	10/26	11/2	11/9	11/16	11/23	11/30	12/7	12/14	12/21	12/28
Through Pharr, TX	Citrus, Mixed Fruit and Vegetables	1	2	2	2	2	2	2	3	3	3	3	4	5
	Tomatoes						2	2	3	3	3	3	4	5
	Watermelon												4	5
Through Nogales, AZ	Melons, Mixed Vegetables				1	2	2	2	4	3	3	2	3	5

Source: USDA, Agricultural Marketing Service (AMS), Fruit and Vegetable Programs



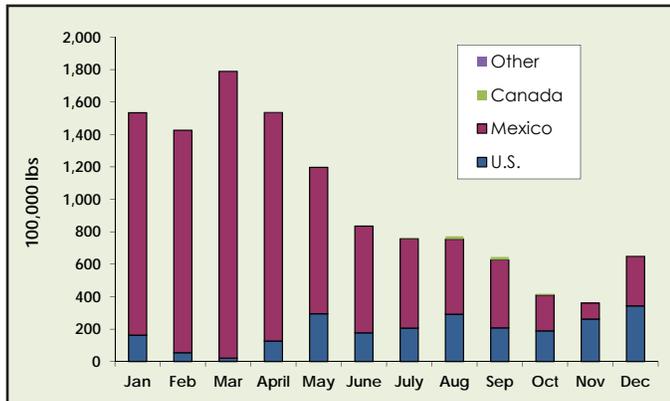
Table 15. Top five commodities shipped to the U.S. from Mexico (10,000 lbs.)

Commodity	1st qtr 2007	2nd qtr 2007	3rd qtr 2007	4th qtr 2007	Total 2007
Tomatoes, Plum	81,569	49,510	16,541	26,462	174,082
Peppers	39,988	21,882	16,609	30,259	108,738
Watermelon, Seedless	19,736	60,559	306	18,214	98,815
Limes	15,931	20,420	21,860	19,090	77,301
Cucumbers	31,681	17,622	4,709	22,438	76,450
Other	151,494	159,783	77,029	108,830	497,136
Subtotal border crossing	188,905	169,993	60,025	116,463	535,386
Total quarterly	340,399	329,776	137,054	225,293	1,032,522
Commodity	1st qtr 2008	2nd qtr 2008	3rd qtr 2008	4th qtr 2008	Total 2008
Tomatoes, Plum	66,049	53,659	15,156	26,271	161,135
Peppers	43,219	38,961	17,356	27,565	127,101
Watermelon, Seedless	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
Other	156,348	207,080	74,194	113,146	550,768
Subtotal border crossing	182,443	221,478	60,963	112,659	577,543
Total quarterly	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, 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
Other	181,069	143,027	80,567	129,714	534,377
Subtotal border crossing	177,601	195,065	76,790	149,452	598,908
Total quarterly	358,670	338,092	157,357	279,166	1,133,285
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
Avocadoes	20,065	15,120	8,696	17,242	61,123
Other	178,749	264,046	116,397	133,112	692,304
Subtotal border crossing	249,992	157,825	73,569	144,160	625,546
Total quarterly	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

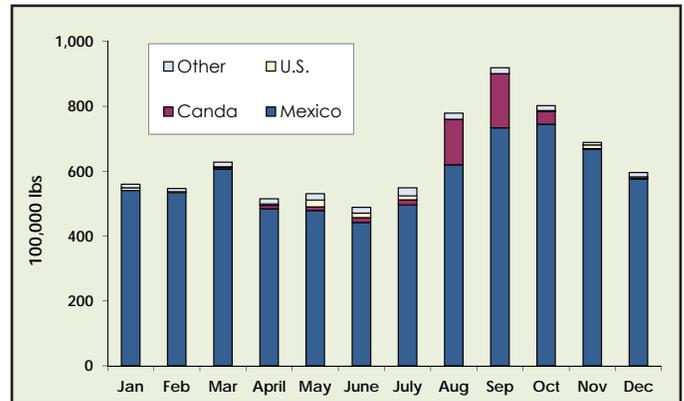


Figure 5. Monthly U.S. shipments of domestic and imported plum tomatoes, 2010



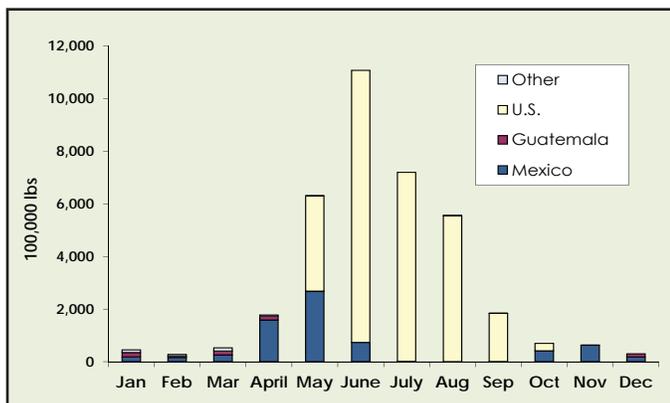
Source: Agricultural Marketing Service (AMS), USDA

Figure 6. Monthly U.S. shipments of domestic and imported peppers, 2010



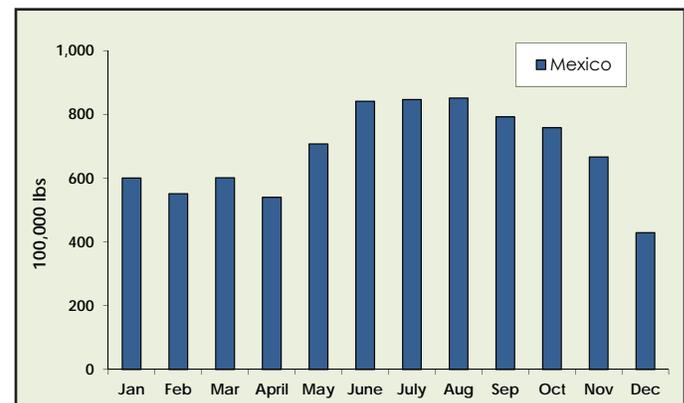
Source: Agricultural Marketing Service (AMS), USDA

Figure 7. Monthly U.S. shipments of domestic and imported seedless watermelons, 2010



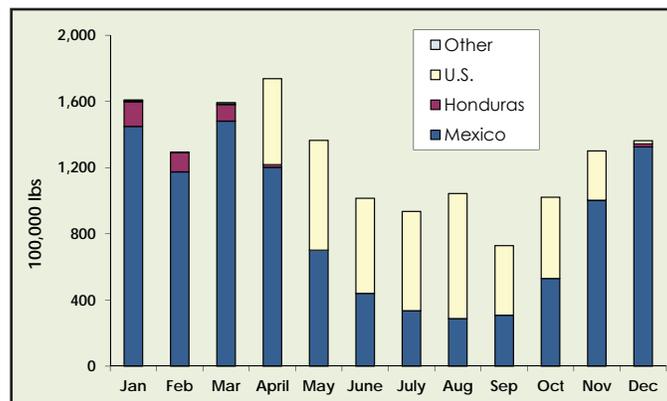
Source: Agricultural Marketing Service (AMS), USDA

Figure 8. Monthly U.S. shipments of domestic and imported limes, 2010



Source: Agricultural Marketing Service (AMS), USDA

Figure 9. Monthly U.S. shipments of domestic and imported cucumbers, 2010



Source: Agricultural Marketing Service (AMS), USDA



Container Shipments

Table 16. Top ten U.S. containerized agricultural exports to Mexico*, 2010

1st qtr	Commodity	Quantity (mt)	# of TEUs**	Percentage share	Rank
	Vegetables	4,929	276	32	1
	Dairy products	2,410	165	16	2
	Tobacco	1,649	156	11	3
	Grocery Items	913	85	6	4
	Beer and ale	744	72	5	5
	Fruit	691	64	5	6
	Cheese	681	92	4	7
	Frozen fish	508	30	3	8
	Liquor, brandy, and spirits	490	65	3	9
	Tomatoes, prepared	279	33	2	10
Subtotal		13,294	1,038	87	
Other		2,002	181	13	
Total Exports		15,296	1,219	100	
2nd qtr	Commodity	Quantity (mt)	# of TEUs**	Percentage share	Rank
	Vegetables	4,063	236	23	1
	Dairy products	2,477	159	14	2
	Fruit	1,959	171	11	3
	Coffee	1,933	120	11	4
	Tomatoes, processed	1,533	114	9	5
	Dextrose, glucose	1,146	48	6	6
	Grocery items	745	89	4	7
	Animal feed	362	19	2	8
	Tea	346	28	2	9
	Bulbs and seeds	334	31	2	10
Subtotal		14,899	1,015	83	
Other		3,093	319	17	
Total Exports		17,992	1,334	100	

—Continued on next page—

*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), Journal of Commerce, 2010



Table 16. Top ten U.S. containerized agricultural exports to Mexico*, 2010
 —Continued—

3rd qtr	Commodity	Quantity (mt)	# of TEUs**	Percentage share	Rank
	Dextrose, glucose	4,458	168	21	1
	Vegetables	3,424	193	16	2
	Coffee	3,421	276	16	3
	Dairy products	2,777	203	13	4
	Fruit	1,869	164	9	5
	Beer, ale	1,052	105	5	6
	Tobacco products	828	87	4	7
	Grocery items	504	69	2	8
	Poultry	322	27	1	9
	Meat	250	17	1	10
Subtotal		18,906	1,309	88	
Other		2,591	240	12	
Total Exports		21,497	1,548	100	
4th qtr	Commodity	Quantity (mt)	# of TEUs**	Percentage share	Rank
	Vegetables	5,535	313	37	1
	Dextrose, glucose	3,554	139	24	2
	Tobacco products	1,099	100	7	3
	Grocery items	867	104	6	4
	Dairy products	770	62	5	5
	Edible nuts	409	39	3	6
	Beer, ale	264	24	2	7
	Wine	247	21	2	8
	Liquor, brandy, and spirits	245	26	2	9
	Meat	232	24	2	10
Subtotal		13,222	852	89	
Other		1,628	179	11	
Total Exports		14,850	1,031	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), Journal of Commerce, 2010



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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](#)



Data Sets:

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- ◆ Figure 2: Bulk ocean freight rates from the U.S. Gulf to Veracruz, Mexico, 2008-2010
- ◆ Figure 3: Top five fruit and vegetables shipped to the U.S. from Mexico, 2010
- ◆ Figure 4: Livestock border crossing to Mexico by category, 2010
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- ◆ Table 1: Cost of transporting U.S. grain and soybeans to Guadalajara, Mexico, 2008-2010
- ◆ Table 2: Tariff plus fuel surcharge rail rates for U.S. bulk grain shipments to Mexico, 2008-2010
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- ◆ Table 4: Quarterly tariff rail rates for U.S. bulk grain shipments to Mexico (US\$/car), 2010
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- ◆ Table 6: Quarterly tariff rail rates for U.S. Distillers' Dried Grains with Soluble (DDGS) shipments to the Mexico border (US\$/car), 2010
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- ◆ Table 16: Top ten U.S. containerized agricultural exports to Mexico, 2010

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