

Mexico Transport Cost Indicator Report



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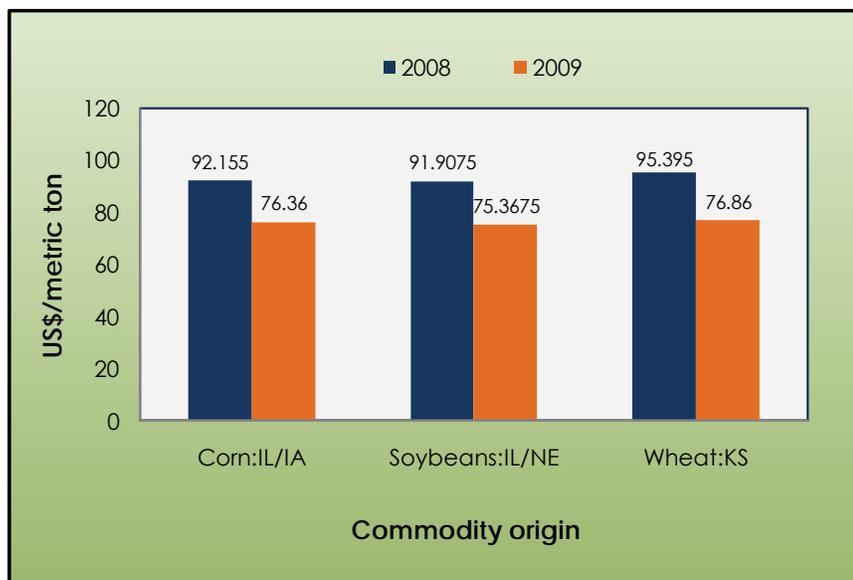
U.S. Agricultural Exports to Mexico

- Transportation demand to Mexico for agricultural commodities declined in 2009 because of the contraction of the Mexican economy. U.S. agricultural exports declined 19 percent by value, from \$16.6 billion in 2008 to \$13.4 billion in 2009. U.S. bulk agricultural commodities exported to Mexico amounted to about 16.4 million metric tons, worth \$4.8 billion, down 12 percent from 2008. According to Mexico's [National Institute of Statistics and Geography \(INEGI\)](#) the economy contracted 6.5 percent during 2009. The depth of the economic downturn was exacerbated by the outbreak of influenza H1N1 epidemics, which dampened Mexico's tourism industry ([Bank of Mexico](#)). The [International Monetary Fund \(IMF\)](#) forecasts that the Mexican economy will grow 4.7 and 3.7 percent in 2010 and 2011, respectively.

Grains and Soybeans

- **2009 Costs for Shipping Grains Drop.** On average, the cost of shipping grains and soybeans by land and water routes from the United States to Guadalajara, Mexico, dropped 18 percent from 2008 costs (figure 1). Although water route rates dropped 21–27 percent, it was still cheaper to ship by land. Corn and soybeans transportation cost by water declined because of a significant fall in ocean and barge rates (tables 1). During 2009, barge rates fell 19–31 percent from the previous year as barge grain capacity increased. Fewer backhauls of non-grain commodities, such as steel, allowed for more availability of grain barge services. The average total land transportation cost for moving corn and soybeans in 2009 was \$77.96/metric ton (mt) compared to \$99.85/mt for the water route in 2008 (table 1). Wheat shipment costs declined 27 percent, from \$117.78/mt to \$85.92/mt. During 2009, transportation as a percentage of the total landed cost averaged 34 percent for corn, 17–22 percent for soybeans, and 23–27 percent for wheat.

Figure 1. Average cost of shipping U.S. corn, wheat, and soybeans to Guadalajara, Mexico, 2008-2009*



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

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Contents

Summary: What Happened?

Quarterly Bulk Grain and By-Products

Livestock

Fruit and Vegetables

Container Shipments

Contact Information

Subscription Information

Data Sets



Table 1. Quarterly costs of transporting U.S. grain and soybeans to Guadalajara, Mexico, 2008-2009

	Water route			Land route		
	2008	2009	% change	2008	2009	% change
	US\$/metric ton			US\$/metric ton		
Corn						
Origin	IL			IA		
Truck	11.50	10.01	-13.0	4.73	4.76	0.6
Rail ¹	37.48	33.81	-9.8	79.73	70.00	-12.2
Ocean ²	24.97	16.23	-35.0			
Barge	25.90	17.92	-30.8			
Total transportation cost	99.85	77.96	-21.9	84.47	74.76	-11.5
Farm value	188.11	145.83	-22.5	188.11	150.06	-20.2
Landed cost	287.96	223.79	-22.3	272.58	224.82	-17.5
Transport % of landed cost	34.74	34.87	0.4	31.09	33.34	7.2
Soybeans						
Origin	IL			NE		
Truck	11.50	10.01	-13.0	4.73	4.76	0.6
Rail ¹	37.48	33.81	-9.8	79.24	68.02	-14.2
Ocean ²	24.97	16.23	-35.0			
Barge	25.90	17.92	-30.8			
Total transportation cost	99.85	77.96	-21.9	83.97	72.78	-13.3
Farm value	428.58	377.91	-11.8	416.25	301.70	-27.5
Landed cost	528.43	455.87	-13.7	500.22	374.47	-25.1
Transport % of landed cost	18.94	17.14	-9.5	16.90	21.52	27.4
Wheat						
Origin	KS			KS		
Truck	41.79	23.43	-43.9	5.34	3.81	-28.6
Rail ¹	33.88	33.81	-0.2	67.67	63.99	-5.4
Ocean ²	26.70	16.23	-39.2			
Barge	15.41	12.45	-19.2			
Total transportation cost	117.78	85.92	-27.1	73.01	67.80	-7.1
Farm value	340.74	186.11	-45.4	284.67	186.11	-34.6
Landed cost	458.52	272.03	-40.7	357.68	253.91	-29.0
Transport % of landed cost	25.69	31.73	23.5	20.95	26.88	28.3

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 and Grain Carloadings to Mexican Railroads.** Reported grain carloadings to Mexican railroads and rail rates decreased over the year because of the recession in the United States and Mexico. Total rail rates (tariff rate plus fuel surcharge) from the United States to selected destinations fell by 8 percent on average between 2008 and 2009 (table 2). The fall was triggered by a 60 percent drop in fuel surcharges for the selected destinations.

Tariff rates fell less than one percent on average. Part of the fuel surcharge decline can be attributed to new rules enacted in the 4th quarter of 2009 forbidding railroads from charging fuel surcharges for rail mileage in Mexico. The impact on total rates from such a large decline in surcharges was mitigated by surcharges that averaged only 7 percent of the total cost in the 4th quarter. Most of the surcharge decline however, can be attributed to the large drop in diesel fuel prices. Diesel prices fell during the first quarter of 2009 but, after the first quarter, diesel prices—and consequently fuel surcharges—consistently rose.

The recession in the United States and Mexico during most of 2009, and the resulting drop in demand for nearly all goods explains the fall in diesel prices and grain carloadings to Mexico. Grain carloadings to Mexico from the United States dropped between 2008 and 2009 by 24 percent, but rose 33 percent for carloads received from Mexican railroads. The increase in carloads received from Mexico was predominately during the second half of the year. The timing correlates with an unusually wet and cold winter in the United States, especially in the 4th quarter of 2009. As railroads look to 2010, and economic recovery progresses, it is anticipated that car loadings will rise.

Table 2. Quarterly tariff rail rates for U.S. bulk grain shipments to Mexico, 2008-2009

			Tariff ¹ plus fuel surcharge per:					
			US\$/metric ton			US\$/bushel ²		
Commodity	Origin state	Destination	2008	2009	% change	2008	2009	% change
Wheat	MT	Chihuahua, CI	69.72	67.18	-3.6	1.90	1.93	1.9
	OK	Cuautitlan, EM	61.94	59.67	-3.7	1.68	1.64	-2.8
	KS	Guadalajara, JA	67.67	60.53	-10.6	1.84	1.35	-26.4
	TX	Salinas Victoria, NL	33.34	38.55	15.6	0.91	1.58	74.6
Corn	IA	Guadalajara, JA	79.73	68.66	-13.9	2.17	1.78	-17.7
	SD	Penjamo, GJ	81.71	67.88	-16.9	2.22	1.59	-28.4
	NE	Queretaro, QA	72.00	65.28	-9.3	1.96	1.72	-12.0
	SD	Salinas Victoria, NL	58.27	47.25	-18.9	1.58	0.86	-45.8
	MO	Tlalnepantla, EM	64.97	60.98	-6.1	1.77	1.80	2.0
	SD	Torreón, CU	68.44	62.68	-8.4	1.86	1.84	-1.2
Soybeans	MO	Bojay (Tula), HG	72.51	64.14	-11.5	1.97	1.68	-14.6
	NE	Guadalajara, JA	79.24	64.28	-18.9	2.15	1.36	-36.7
	IA	Penjamo (Celaya), GJ	80.93	67.52	-16.6	2.20	1.47	-33.1
	KS	Torreón, CU	61.46	56.04	-8.8	1.67	1.54	-7.6
Sorghum	OK	Cuautitlan, EM	54.17	52.70	-2.7	1.47	1.74	18.0
	TX	Guadalajara, JA	57.48	57.97	0.8	1.56	1.87	19.5
	NE	Penjamo, GJ	74.51	68.20	-8.5	2.03	1.90	-6.3
	KS	Queretaro, QA	62.37	57.36	-8.0	1.70	1.49	-12.3
	NE	Salinas Victoria, NL	51.57	47.83	-7.3	1.40	1.25	-10.7
	NE	Torreón, CU	61.85	55.14	-10.8	1.68	1.36	-19.1

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.

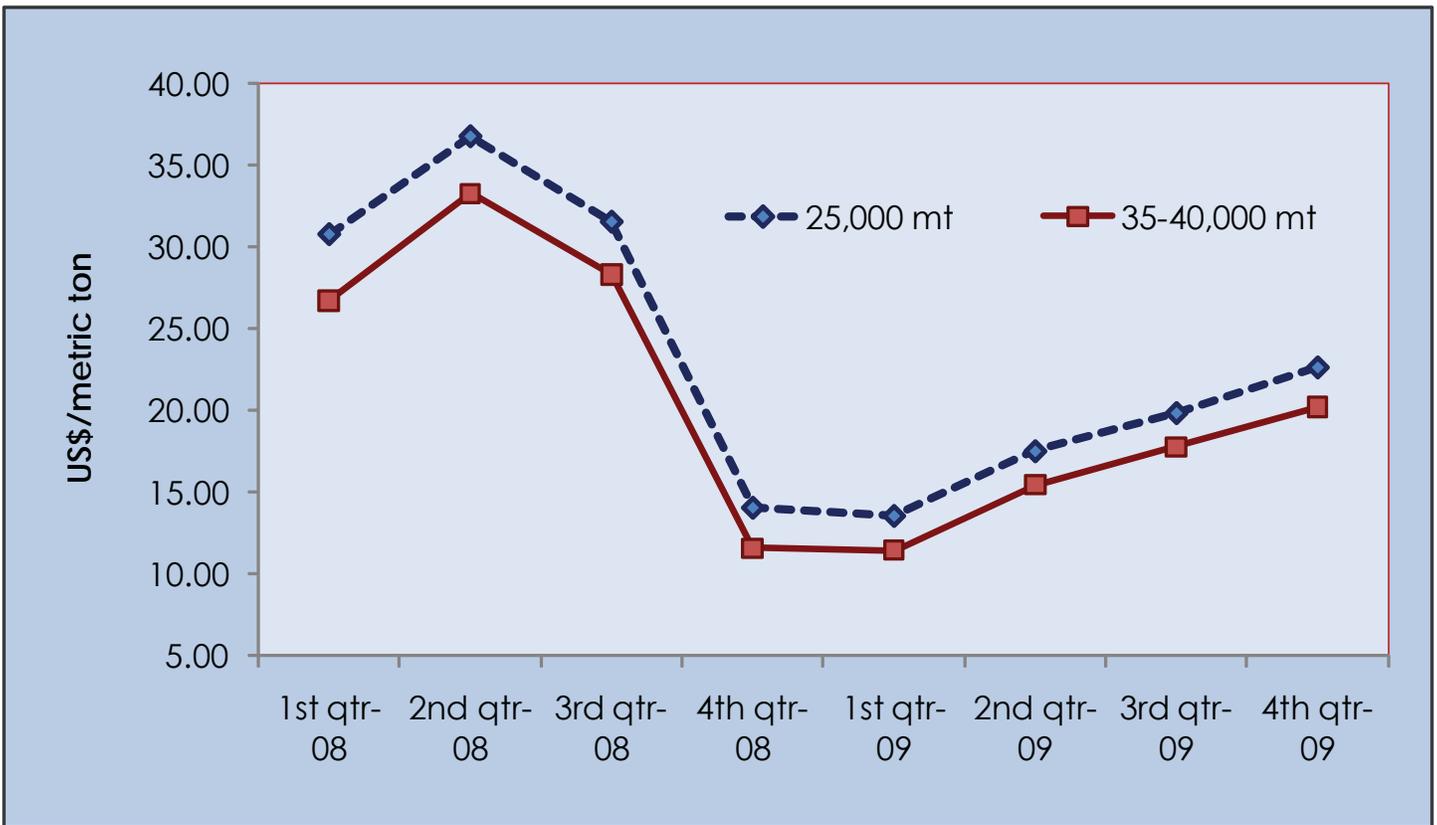
²Approximate load per car = 97.87 mt: corn & sorghum 56 lbs/bu, wheat & soybeans 60 lbs/bu

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



- Ocean:** Although ocean rates for shipping grain to Mexico increased throughout the year, the yearly averages are 35 percent lower than last year (figure 2). The rates for shipping 35-40,000 metric tons of grain averaged \$16.23/mt in 2009 compared to \$24.97/mt in 2008. The rates for shipping 25,000 metric tons of grain averaged \$18.41 per mt in 2009 compared to \$28.30 in 2008. Similar to other bulk commodities, rates for shipping grains fell because of the global economic slowdown. However, the rates have recently started to climb again as the global economy improves. Rates during the last quarter of 2009 were 60-75 percent higher than the 4th quarter 2008, when rates plummeted.

Figure 2. Bulk ocean freight rates from the U.S. Gulf to Veracruz, Mexico, 2008-2009



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

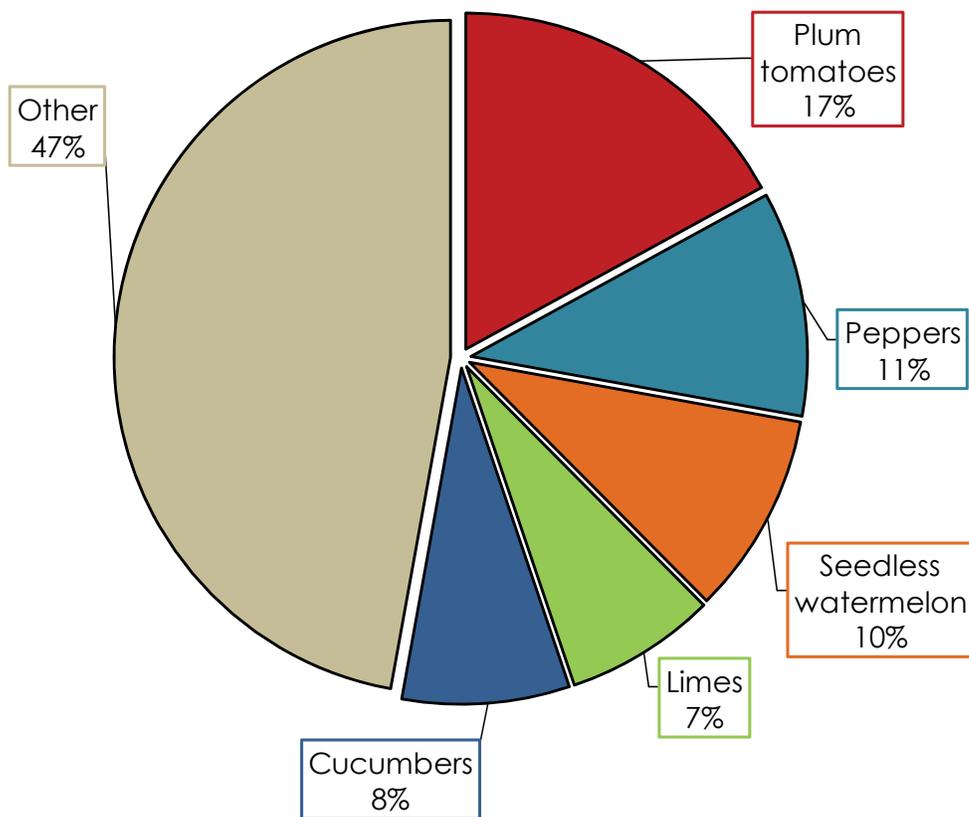
Source: O'Neil Commodity Consultant



Fruit and Vegetables

During 2009, plum tomatoes were the top commodity shipped to the United States from Mexico, followed by peppers, seedless watermelons, limes, and cucumbers (figure 3). Annual shipments from Mexico increased slightly from 11.28 billion pounds in 2008 to 11.33 billion pounds in 2009. Plum tomatoes shipments showed the largest increase—20 percent from the previous year—followed by cucumbers and limes. Seedless watermelons and pepper shipments declined 9 and 4 percent, respectively. Truck rates for border crossings through Texas decreased nearly 19 percent over the previous year, averaging \$1.65 per mile. Rates for crossings through Arizona declined 14 percent from \$2.24 in 2008 to \$1.92 per mile in 2009.

Figure 3. Top five fruit and vegetables shipped to the United States from Mexico, 2009



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



Agricultural Container

Agricultural Container Shipments to Mexico Increased: Despite the contraction of the Mexican economy, the number of U.S. twenty foot equivalent unit (TEU) agricultural container shipments to Mexico increased almost 49 percent, from 3,979 TEUs in 2008 to 5,919 TEUs in 2009. Dairy products were the number one exported commodity for 2009, followed by fruit, vegetables, tobacco, and grocery items. Dairy products accounted for 18 percent of container export commodities, compared to 10 percent in 2008. Almost 730 more TEUs of dairy products were shipped to Mexico this year than last year.

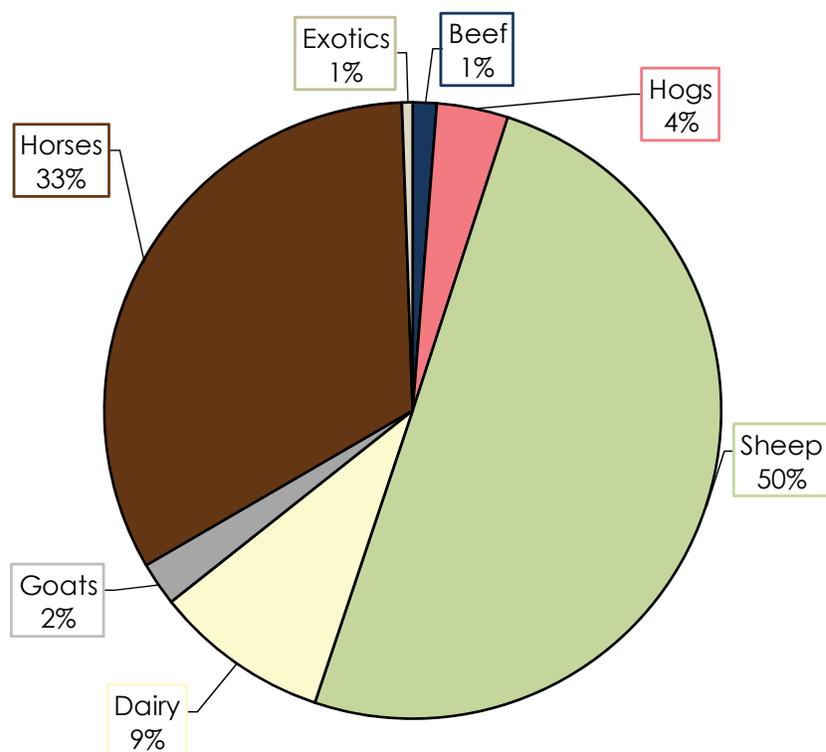
The Port of Manzanillo has been the top recipient port of U.S. containers for the last 3 years. It is located on the Pacific Ocean; an expansive rail system moves imported products inland to major population centers. Lázaro Cárdenas ranked as the number two receiving port with 1,528 TEUs (26 percent) for 2009, followed by Altamira (11 percent), Port Morelos (6 percent) and Veracruz (6 percent).

Livestock

U.S. Livestock Imports Down. The weakness of the Mexican peso and the slow economy contributed to a lower demand for livestock in Mexico in 2009. The drop was observed across the board for all livestock exports, but the number of hogs crossing the border to Mexico was reduced tremendously, from 80,882 head in 2008 to 6,433 in 2009, a drop of 92 percent. Figure 4 shows that sheep now comprise 50 percent of the animals shipped to Mexico, up from 35 percent in 2008, followed by horses (33 percent in 2009, up from 22 percent in 2008) and dairy cattle (9 percent in 2009) (figure 4).

As the economy improved, there was a 5 percent increase in livestock crossing the border from the 3rd to the 4th quarter of last year, from 50,133 head in the 3rd quarter to 52,902 in the 4th quarter.

Figure 4. Livestock border crossing to Mexico by category, 2009



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



Quarterly Bulk Grain and Soybeans

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

	-----2009-----									
	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	8.17	10.10	10.38	11.38	10.0	4.41	5.19	3.92	5.52	4.8
Rail ¹	36.95	32.76	32.76	32.76	33.8	70.99	68.02	69.33	71.66	70.0
Ocean ²	11.46	15.46	17.78	20.22	16.2					
Barge	19.92	13.53	15.57	22.64	17.9					
Total transportation cost	76.50	71.85	76.49	87.00	78.0	75.40	73.21	73.25	77.18	74.8
Farm value	155.24	154.45	133.20	140.41	145.8	162.72	158.52	133.59	145.40	150.1
Landed cost	231.74	226.30	209.69	227.41	223.8	238.12	231.73	206.84	222.58	224.8
Transport % of landed cost	33.0	31.7	36.5	38.3	34.9	31.7	31.6	35.4	34.7	33.3
Soybeans										
Origin	IL					NE				
Truck	8.17	10.10	10.38	11.38	10.0	4.41	5.19	3.92	5.52	4.8
Rail ¹	36.95	32.76	32.76	32.76	33.8	68.7	65.94	67.25	70.17	68.0
Ocean ²	11.46	15.46	17.78	20.22	16.2					
Barge	19.92	13.53	15.57	22.64	17.9					
Total transportation cost	76.50	71.85	76.49	87.00	78.0	73.11	71.13	71.17	75.69	72.8
Farm value	356.78	398.91	393.16	362.78	377.9	338.78	383.97	132.15	351.88	301.7
Landed cost	433.28	470.76	469.65	449.78	455.9	411.89	455.10	203.32	427.57	374.5
Transport % of landed cost	17.7	15.3	16.3	19.3	17.1	17.7	15.6	35.0	17.7	21.5
Wheat										
Origin	KS					KS				
Truck	32.27	17.22	21.06	23.18	23.4	3.68	3.64	3.52	4.41	3.8
Rail ¹	36.95	32.76	32.76	32.76	33.8	63.28	62.02	63.99	66.66	64.0
Ocean ²	11.46	15.46	17.78	20.22	16.2					
Barge	13.32	8.75	11.03	16.70	12.5					
Total transportation cost	94.00	74.19	82.63	92.86	85.9	66.96	65.66	67.51	71.07	67.8
Farm value	199.15	210.79	172.21	162.28	186.1	199.15	210.79	172.21	162.28	186.1
Landed cost	293.15	284.98	254.84	255.14	272.0	266.11	276.45	239.72	233.35	253.9
Transport % of landed cost	32.1	26.0	32.4	36.4	31.7	25.2	23.8	28.2	30.5	26.9

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), 2009

Commodity	Origin state	Destination	Tariff rate/car ¹				Fuel surcharge per car ²					Avg
			1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	
Wheat	MT	Chihuahua, CI	6,290	5,896	5,943	6,149	6,070	589	381	482	568	505
	OK	Cuautitlan, EM	5,501	5,377	5,458	5,624	5,490	413	231	334	423	350
	KS	Guadalajara, JA	4,410	5,847	5,928	6,093	5,569	428	223	335	431	354
	TX	Salinas Victoria, NL	5,172	2,995	3,047	3,100	3,579	485	58	99	135	194
Corn	IA	Guadalajara, JA	5,896	6,395	6,395	6,512	6,299	525	263	391	502	420
	SD	Penjamo, GJ	5,355	6,300	6,233	6,440	6,082	372	498	631	743	561
	NE	Queretaro, QA	5,825	6,167	6,167	6,190	6,087	374	155	283	395	302
	SD	Salinas Victoria, NL	2,978	4,740	4,673	4,570	4,240	113	378	480	565	384
	MO	Tlalnepantla, EM	6,512	5,364	5,364	5,384	5,656	436	151	275	384	312
	SD	Torreon, CU	6,400	5,310	5,243	5,330	5,571	687	417	529	623	564
Soybeans	MO	Bojay (Tula), HG	6,167	5,819	5,819	5,994	5,950	325	222	334	430	328
	NE	Guadalajara, JA	4,740	6,200	6,200	6,375	5,879	522	253	382	493	413
	IA	Penjamo (Celaya), GJ	5,364	6,050	6,250	6,590	6,064	316	495	627	739	544
	KS	Torreon, CU	5,377	5,040	5,040	5,180	5,159	576	157	246	323	325
Sorghum	OK	Cuautitlan, EM	5,881	4,309	4,309	4,339	4,709	373	378	479	564	449
	TX	Guadalajara, JA	6,297	4,800	4,800	5,150	5,262	427	324	411	484	411
	NE	Penjamo, GJ	6,150	6,225	6,225	6,395	6,249	683	226	346	450	426
	KS	Queretaro, QA	5,077	5,468	5,468	5,483	5,374	276	142	232	310	240
	NE	Salinas Victoria, NL	4,309	4,377	4,377	4,392	4,364	522	166	253	327	317
	NE	Torreon, CU	4,800	5,130	5,130	5,240	5,075	447	186	284	370	322

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 rail rates for U.S. bulk grain shipments to Mexico, 2009

Commodity	Origin state	Destination	US\$/metric ton				US\$/bushel ²					Avg
			1st qtr	2nd qtr	3rd qtr	4th qtr	Avg	1st qtr	2nd qtr	3rd qtr	4th qtr	
Wheat	MT	Chihuahua, CI	70.29	64.13	65.66	68.64	67.2	1.93	1.74	1.79	1.87	1.83
	OK	Cuautitlan, EM	60.44	57.30	59.18	61.78	59.7	1.64	1.56	1.61	1.68	1.62
	KS	Guadalajara, JA	49.43	62.02	63.99	66.66	60.5	1.35	1.69	1.74	1.81	1.65
	TX	Salinas Victoria, NL	57.80	31.20	32.14	33.05	38.5	1.58	0.85	0.87	0.90	1.05
Corn	IA	Guadalajara, JA	65.61	68.02	69.33	71.66	68.7	1.78	1.73	1.76	1.82	1.77
	SD	Penjamo, GJ	58.51	69.46	70.14	73.40	67.9	1.59	1.76	1.78	1.86	1.75
	NE	Queretaro, QA	63.34	64.60	65.90	67.28	65.3	1.72	1.64	1.67	1.71	1.69
	SD	Salinas Victoria, NL	31.57	52.30	52.65	52.47	47.2	0.86	1.33	1.34	1.33	1.21
	MO	Tlalnepantla, EM	70.99	56.35	57.62	58.94	61.0	1.80	1.43	1.46	1.50	1.55
	SD	Torreon, CU	72.42	58.52	58.98	60.82	62.7	1.84	1.48	1.50	1.54	1.59
Soybeans	MO	Bojay (Tula), HG	66.33	61.72	62.86	65.64	64.1	1.68	1.68	1.71	1.78	1.71
	NE	Guadalajara, JA	53.77	65.94	67.25	70.17	64.3	1.36	1.79	1.83	1.91	1.72
	IA	Penjamo (Celaya), GJ	58.04	66.87	70.27	74.88	67.5	1.47	1.82	1.91	2.04	1.81
	KS	Torreon, CU	60.82	53.10	54.01	56.22	56.0	1.54	1.44	1.47	1.53	1.50
Sorghum	OK	Cuautitlan, EM	63.90	47.89	48.92	50.10	52.7	1.74	1.22	1.24	1.27	1.37
	TX	Guadalajara, JA	68.70	52.36	53.24	57.56	58.0	1.87	1.33	1.35	1.46	1.50
	NE	Penjamo, GJ	69.82	65.91	67.14	69.94	68.2	1.90	1.67	1.70	1.77	1.76
	KS	Queretaro, QA	54.70	57.32	58.24	59.19	57.4	1.49	1.45	1.48	1.50	1.48
	NE	Salinas Victoria, NL	49.36	46.42	47.30	48.22	47.8	1.25	1.18	1.20	1.22	1.21
	NE	Torreon, CU	53.61	54.31	55.32	57.32	55.1	1.36	1.38	1.40	1.45	1.40

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 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 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

Source: O'Neil Commodity Consulting



Table 7. U.S. livestock exports to Mexico by border crossings*,
January - December, 2009 (head)

Category					
Border Crossing	TX	NM	AZ	CA	Total
Beef cattle					
Slaughter	0	0	0	0	0
Breeding males	620	208	126	0	954
Breeding females	695	125	375	0	1195
Total beef	1315	333	501	0	2149
Hogs					
Slaughter	0	0	0	0	0
Breeding males	1216	0	0	0	1216
Breeding females	4140	0	1,077	0	5217
Total hogs	5356	0	1,077	0	6,433
Sheep					
Slaughter lambs	0	0	0	0	0
Slaughter ewes	86210	0	0	0	86,210
Breeding males	0	0	0	0	0
Breeding females	6	0	0	0	6
Total sheep	86216	0	0	0	86,216
Dairy cattle					
Breeding males	55	2	4	0	61
Breeding females	6458	8,007	1278	0	15,743
Total dairy	6513	8,009	1282	0	15,804
Goats					
Angora	0	0	0	0	0
Spanish	3,937	0	0	0	3,937
Other	0	0	0	0	0
Total goats	3,937	0	0	0	3,937
Horses					
Slaughter	36,723	9,604	9	0	46,336
Breeding males	2,276	936	330	0	3,542
Breeding females	3,689	1175	349	0	5,213
Geldings	746	413	94	0	1,253
Burro/mule/pony	85	36	2	0	123
Total horses	43,469	12,165	784	0	56,418
Exotics**	946	23	0	0	969
Grand total	147,779	20,530	3,644	0	171,953

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

Category	1st qtr 2009	2nd qtr 2009	3rd qtr 2009	4th qtr 2009	Total
Beef cattle					
Slaughter	0	0	0	0	0
Breeding males	178	155	73	214	620
Breeding females	157	209	69	260	695
Total beef	335	364	142	474	1,315
Hogs					
Slaughter	0	0	0	0	0
Breeding males	179	644	125	268	1,216
Breeding females	732	642	2,632	134	4,140
Total hogs	911	1,286	2,757	402	5,356
Sheep					
Slaughter lambs	0	0	0	0	0
Slaughter ewes	17,574	15,737	25,988	26,911	86,210
Breeding males	0	0	0	0	0
Breeding females	0	0	0	6	6
Total sheep	17,574	15,737	25,988	26,917	86,216
Dairy cattle					
Breeding males	0	20	7	28	55
Breeding females	422	1,398	1,521	3,117	6,458
Total dairy	422	1,418	1,528	3,145	6,513
Goats					
Angora	0	0	0	0	0
Spanish	235	60	2,167	1,475	3,937
Other	0	0	0	0	0
Total goats	235	60	2,167	1,475	3,937
Horses					
Slaughter	9,271	9,176	8,680	9,596	36,723
Breeding males	439	424	662	751	2,276
Breeding females	948	595	980	1,166	3,689
Geldings	131	121	278	216	746
Burro/mule/pony	6	0	40	39	85
Total horses	10,795	10,316	10,640	11,718	43,469
Exotics**	437	98	175	236	946
Grand total	30,709	29,279	43,397	44,394	147,779

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

Category	1st qtr 2009	2nd qtr 2009	3rd qtr 2009	4th qtr 2009	Total
Beef cattle					
Slaughter	0	0	0	0	0
Breeding males	102	30	63	13	208
Breeding females	102	1	0	22	125
Total beef	204	31	63	35	333
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	2	0	0	2
Breeding females	888	1,054	2,358	3,707	8,007
Total dairy	888	1,056	2,358	3,707	8,009
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	2,466	1,783	2,484	2,871	9,604
Breeding males	243	171	232	290	936
Breeding females	282	212	257	424	1,175
Geldings	88	70	108	147	413
Burro/mule/pony	0	0	0	36	36
Total horses	3,080	2,236	3,081	3,768	12,165
Exotics**	0	0	0	23	23
Grand total	4,172	3,323	5,502	7,533	20,530

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

Category	1st qtr 2009	2nd qtr 2009	3rd qtr 2009	4th qtr 2009	Total
Beef cattle					
Slaughter	0	0	0	0	0
Breeding males	27	27	38	34	126
Breeding females	169	173	12	21	375
Total beef	196	200	50	55	501
Hogs					
Slaughter	0	0	0	0	0
Breeding males	0	0	0	0	0
Breeding females	265	325	183	304	1,077
Total hogs	265	325	183	304	1,077
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	0	57	901	320	1,278
Total dairy	0	61	901	320	1,282
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	9	9
Breeding males	122	30	42	136	330
Breeding females	120	39	43	147	349
Geldings	41	9	15	29	94
Burro/mule/pony	0	0	0	2	2
Total horses	283	78	100	323	784
Exotics**	0	0	0	0	0
Grand total	744	664	1,234	1,002	3,644

*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. Fruit and vegetable truck rates for selected U.S.-Mexico border crossing* (US\$/mile)

Origin/border crossing	1st qtr 2005	2nd qtr 2005	3rd qtr 2005	4th qtr 2005	Average
Nogales, Arizona	1.58	1.83	2.10	1.92	1.86
Pharr, Texas	1.51	1.84	1.70	1.87	1.73
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

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



Table 12. Quarterly U.S.-Mexico border crossing fresh fruit and vegetables truck availability, 4th quarter, 2009

Legend:		Truck availability												
1 = Surplus	2 = Slight Surplus													
3 = Adequate	4 = Slight Shortage													
5 = Shortage														
Mexico border crossings/month		October				November				December				
Week		10/6	10/13	10/20	10/27	11/3	11/10	11/17	11/24	12/1	12/8	12/15	12/22	12/29
Through Pharr, TX	Citrus	2	2	2	1	1	3	3	3	3	3	3	4	5
	Avocados	2	2	2	1	1	3	3	3	3	3	3	4	5
	Mixed Fruits and Vegetables	2	2	2	1	1	3	3	3	3	3	3	4	5
	Watermelons													
	Mangoes													
Through Nogales, AZ	Tomatoes					2	3	5	3	3	3	2	3	4
	Mixed Vegetables					2	3	5	3	3	3	2	3	4
	Melons					2	3	5	3	3	3	2	3	4
	Grapes													
	Mangoes													

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



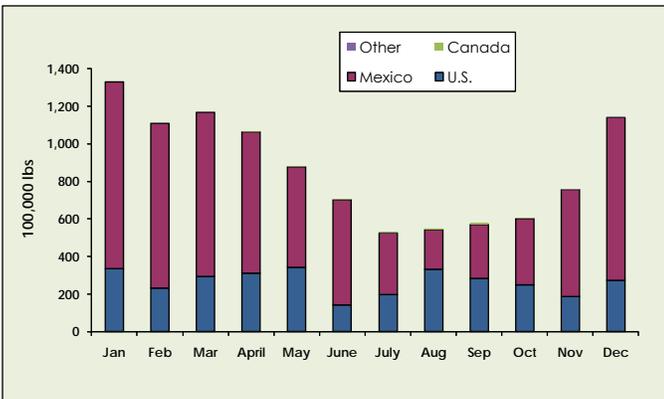
Table 13. Top five commodities shipped to the U.S. from Mexico (10,000 lbs.)

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

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

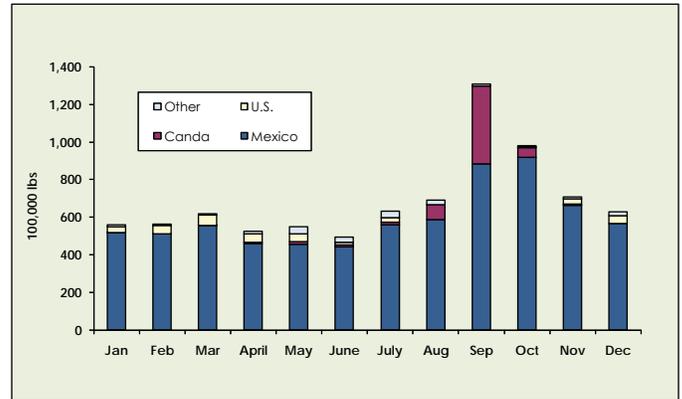


Figure 5. Monthly U.S. shipments of domestic and imported plum tomatoes, 2009



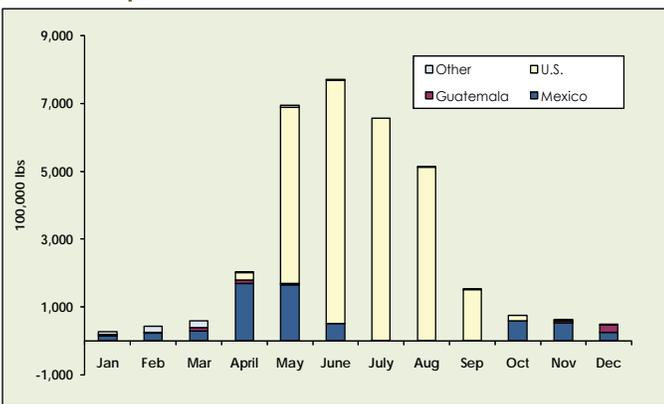
Source: Agricultural Marketing Service (AMS), USDA

Figure 6. Monthly U.S. shipments of domestic and imported peppers, 2009



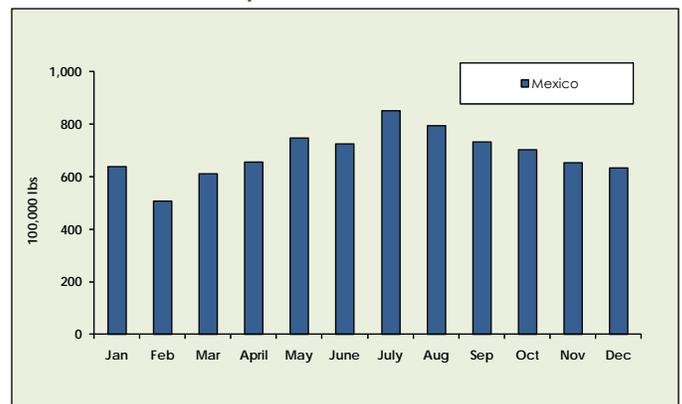
Source: Agricultural Marketing Service (AMS), USDA

Figure 7. Monthly U.S. shipments of domestic and imported seedless watermelons, 2009



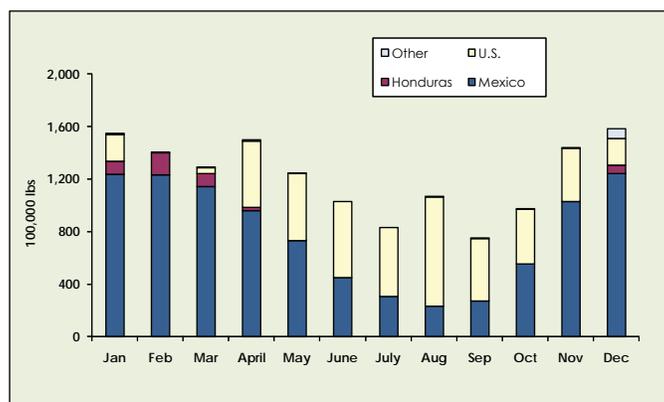
Source: Agricultural Marketing Service (AMS), USDA

Figure 8. Monthly U.S. shipments of domestic and imported limes, 2009



Source: Agricultural Marketing Service (AMS), USDA

Figure 9. Monthly U.S. shipments of domestic and imported cucumbers, 2009



Source: Agricultural Marketing Service (AMS), USDA



Table 14. Top ten U.S. container agricultural exports to Mexico, 2009

1st qtr	Commodity	# of TEUs**	Percentage share	Rank
	Dairy products	157	14	1
	Tobacco, leaf, processed	120	11	2
	Grocery items	113	10	3
	Cocoa; butter	84	8	4
	Vegetables	78	7	5
	Herbs and spices	62	6	6
	Tomatoes prepared	56	5	7
	Beer and ale	52	5	8
	Bulbs and seeds	40	4	9
	Canned fruit	35	3	10
Subtotal		797	73	
Other		322	27	
Total Exports		1119	100	
2nd qtr	Commodity	# of TEUs**	Percentage share	Rank
	Dairy products	394	23	1
	Fruit	149	9	2
	Beer and ale	138	8	3
	Edible nuts	132	8	4
	Grocery items	122	7	5
	Cocoa; butter	102	6	6
	Vegetables	87	5	7
	Animal feed	83	5	8
	Tomatoes prepared	60	4	9
	Herbs and spices	41	2	10
Subtotal		1309	78	
Other		375	22	
Total Exports		1683	100	



**Table 14. Top ten U.S. container agricultural exports to Mexico, 2009
(continued)**

3rd qtr	Commodity	# of TEUs**	Percentage share	Rank
	Fruit	235	18	1
	Dairy products	198	15	2
	Vegetables	196	15	3
	Tobacco, leaf, processed	162	12	4
	Grocery items	90	7	5
	Beer and ale	66	5	6
	Tomatoes prepared	62	5	7
	Animal feed	41	3	8
	Frozen fish	41	3	9
	Cocoa; butter	40	3	10
Subtotal		131	85	
Other		200	15	
Total Exports		1331	100	
4th qtr	Commodity	# of TEUs**	Percentage share	Rank
	Dairy products	326	18	1
	Tobacco, leaf, processed	318	18	2
	Fruit	284	16	3
	Vegetables	263	15	4
	Tomatoes prepared	152	9	5
	Grocery items	75	4	6
	Edible nuts	56	3	7
	Rum	42	2	8
	Rice, crackers, and pasta	42	2	9
	Frozen fish	35	2	10
Subtotal		1593	89	
Other		193	11	
Total Exports		1785	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, 2009



Table 15. Top five U.S. bulk agricultural exports to Mexico*, 2008-2009

Commodity	2008	2009	Percentage share	Rank
	Quantity (mt)			
Bulk grain	4,065,420	4,034,836	55	1
Soybeans	1,047,608	1,365,003	19	2
Vegetables	696,206	1,154,668	16	3
Rice, crackers, and pasta	390,329	447,145	6	4
Tallow, grease	137,113	131,850	2	5
Subtotal	6,336,676	7,133,502	97	
Other	338,758	211,818	3	
Total Exports	6,675,434	7,345,320	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, 2009

Table 16. Top ten U.S. agricultural container exports to Mexico*, 2009

Commodity	# of TEUs**	Percentage share	Rank
Diary products	1,075	18	1
Fruit	669	12	2
Vegetables	623	11	3
Tobacco	615	10	4
Grocery items	401	7	5
Tomatoes, prepared	330	6	6
Beer and ale	276	5	7
Edible nuts	230	4	8
Cocoa butter	224	4	9
Frozen fish	130	2	10
Subtotal	4,603	78	
Other	1,317	22	
Total Exports	5,919	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, 2009



Table 17. U.S. agricultural container shipments to Mexico by port*, 2008-2009

U.S. region**	Mexican port	2008	2009
		Number of TEUs***	
U.S. Gulf	Manzanillo	66	2
Pacific Northwest		303	690
West Coast		1,033	1,520
East Coast		74	67
TOTAL		1,476	4,288
U.S. Gulf	Lazaro Cardenas	-	-
Pacific Northwest		21	325
West Coast		141	1200
East Coast		-	4
TOTAL		163	1,528
U.S. Gulf	Altamira	5	-
Pacific Northwest		-	-
West Coast		-	-
East Coast		346	657
TOTAL		351	657
U.S. Gulf	Port Morelos	473	-
Pacific Northwest		-	-
West Coast		-	-
East Coast		-	356
TOTAL		473	356
U.S. Gulf	Veracruz	58	47
Pacific Northwest		-	-
West Coast		-	1
East Coast		167	293
TOTAL		224	341

*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), Journal of Commerce, 2009



Table 18. U.S. agricultural container exports to Mexico by port*, 2008-2009

Mexican port	2008	2009	Percentage share	Rank
	# of TEUs**			
Manzanillo	1,476	2,279	39	1
Lazaro Cardenas	163	1,528	26	2
Altamira	351	657	11	3
Port Morelos	473	356	6	4
Veracruz	224	341	6	5
Subtotal	2,687	5,161	87	
Other	1,292	758	13	
Total Exports	3,979	5,919	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, 2009

Table 19. U.S. bulk agricultural exports to Mexico by receiving port*, 2008-2009

Mexican port	2008	2009	Percentage share	Rank
	Quantity (mt)			
Veracruz	4,248,204	5,127,857	70	1
Progreso	1,320,009	972,673	13	2
Coatzacoalcos	562,171	570,641	8	3
Tuxpan	488,861	406,120	6	4
Manzanillo	20,679	198,043	3	5
Subtotal	6,639,924	7,275,333	99	
Other	79,353	69,987	1	
Total Exports	6,719,277	7,345,320	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, 2009



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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](#)
- ◆ [Ocean Rate Bulletin](#)



Data Sets:

- ◆ Figure 1: Average cost of shipping U.S. corn, wheat, and soybeans to Guadalajara, Mexico, by route, 2008-2009
- ◆ Figure 2: Bulk ocean freight rates from the U.S. Gulf to Veracruz, Mexico, 2008-2009
- ◆ Figure 3: Top five fruit and vegetables shipped to the United States from Mexico, 2009
- ◆ Figure 4: Livestock border crossing to Mexico by category, 2009
- ◆ Figure 5: Monthly U.S. shipments of domestic and imported plum tomatoes, 2009
- ◆ Figure 6: Monthly U.S. shipments of domestic and imported peppers, 2009
- ◆ Figure 7: Monthly U.S. shipments of domestic and imported seedless watermelons, 2009
- ◆ Figure 8: Monthly U.S. shipments of domestic and imported limes, 2009
- ◆ Figure 9: Monthly U.S. shipments of domestic and imported cucumbers, 2009

- ◆ Table 1: Quarterly costs of transporting U.S. grain and soybeans to Guadalajara, Mexico, 2008-2009
- ◆ Table 2: Quarterly tariff rail rates for U.S. bulk grain shipments to Mexico, 2008-2009
- ◆ Table 3: Quarterly costs of transporting U.S. grain and soybeans to Guadalajara, Mexico
- ◆ Table 4: Quarterly tariff rail rates for U.S. bulk grain shipments to Mexico (US\$/car), 2009
- ◆ Table 5: Quarterly tariff rail rates for U.S. bulk grain shipments to Mexico, 2009
- ◆ Table 6: Quarterly ocean freight rate for bulk shipments from the U.S. Gulf to Veracruz, Mexico (US\$/metric ton)
- ◆ Table 7: Quarterly U.S. livestock exports to Mexico by border crossings, January - December, 2009 (head)
- ◆ Table 8: Quarterly U.S. livestock exports to Mexico through Texas border crossing (head)
- ◆ Table 9: Quarterly U.S. livestock exports to Mexico through New Mexico border crossing (head)
- ◆ Table 10: Quarterly U.S. livestock exports to Mexico through Arizona border crossing (head)
- ◆ Table 11: Fruit and vegetable truck rates for selected U.S.-Mexico border crossing (US\$/mile)
- ◆ Table 12: Quarterly U.S.-Mexico border crossing fresh fruit and vegetables truck availability, 4th quarter, 2009
- ◆ Table 13: Top five commodities shipped to the U.S. from Mexico (10,000 lbs.)
- ◆ Table 14: Top ten U.S. container agricultural exports to Mexico, 2009
- ◆ Table 15: Top five U.S. bulk agricultural exports to Mexico, 2008-2009
- ◆ Table 16: Top ten U.S. agricultural container exports to Mexico, 2009
- ◆ Table 17: U.S. agricultural container shipments to Mexico by port, 2008-2009
- ◆ Table 18: U.S. agricultural container exports to Mexico by port, 2008-2009
- ◆ Table 19: U.S. bulk agricultural exports to Mexico by receiving port, 2008-2009

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