

**Bureau of Transportation Statistics** 

## **Data Spotlight**

June 7, 2024

## **U.S. Border Freight Transportation Resiliency**

In 2023, the Bureau of Transportation Statistics (BTS) participated in a data-based examination of the U.S.-Canada border with <u>Transport Canada</u>. The primary task of the binational working group was to identify the most consequential land border ports that could be vulnerable to disruption of international freight flows and transportation. The group used freight dollar values and border crossing counts to 1) rank order land ports to identify potential bottlenecks at U.S.-Canada border crossings, and 2) develop a joint framework to measure risks to help promote a more resilient border.

In 2023, the U.S. had \$773.9 billion in total freight flows with Canada by all modes of transportation. The largest share (56%) was trucking with total bidirectional freight with Canada at \$435.7 billion, and rail in second place (15%) with \$113.9 billion.

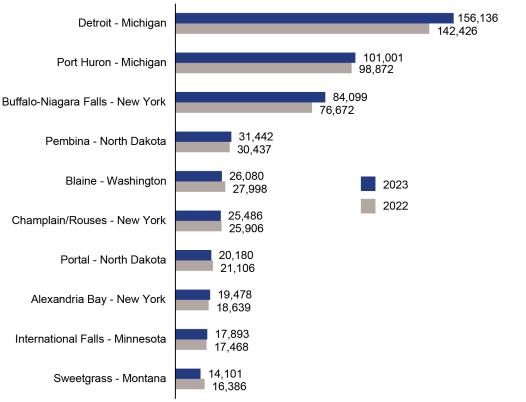
BTS' Office of Transportation Analysis (OTA), utilized in-house resources including the <u>North American</u> <u>TransBorder Freight</u> and <u>Border Crossing</u> database programs to develop objective freight statistics to analyze and rank the ports along the Northern border with Canada.

After further analysis, BTS found that the dollar value of U.S. freight flows with Mexico in 2023 was higher (\$798.8 billion) than the dollar value with Canada, so BTS expanded its analysis framework to include the ports along the Southern border at the same capacity. Of the \$798.8 billion in total bidirectional freight flows with Mexico by all modes of transportation in 2023, the largest share (70.2%) was trucking at \$560.6 billion, and rail in second place (11.9%) at \$95.4 billion.

The following figures and tables provide a combined view of BTS' TransBorder and Border Crossing data that was used by the joint border working group to develop the port rankings. Since 2022, the TransBorder data began to reveal an interesting trend showing U.S.-Mexico freight in both dollar value and weight was rising faster than U.S.-Canada.

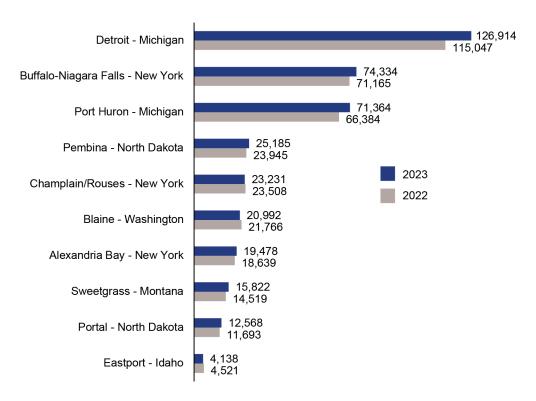
## U.S. - CANADA FREIGHT BY TRUCK AND RAIL

Top 10 Land Ports Along the U.S. - Canada Border: 2022–2023 (Truck + Rail, Millions USD)



Source: Bureau of Transportation Statistics, Transborder Freight Data, available at <a href="https://data.bts.gov/stories/s/myhq-rm6q">https://data.bts.gov/stories/s/myhq-rm6q</a>, adapted from U.S. Census Bureau, International Trade in Goods and Services

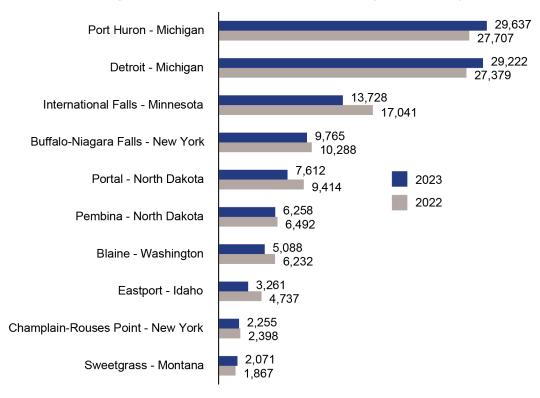
Top 10 Truck Ports Along the U.S. - Canada Border: 2022-2023 (Millions USD)



Top 10 Commodities in U.S. - Canada Freight by Truck: 2023

Commodity	% Export	% Import	% of Total	USD (Millions)	2022–2023
Computer machinery	62.1	37.9	16.70%	72,663	12.10%
Vehicles and parts	51.9	48.1	15.00%	65,185	17.60%
Electrical machinery	73.8	26.2	6.80%	29,579	11.50%
Plastics	53.1	46.9	4.70%	20,663	-7.70%
Pearls, stones and jewelry	44.8	55.2	3.50%	15,070	85.70%
Iron and steel	51.6	48.4	2.50%	10,913	-3.10%
Pharmaceutical products	49.6	50.4	2.40%	10,436	-6.90%
Paper and paperboard	46.5	53.5	2.30%	10,124	-3.40%
Measuring and testing parts	70.1	29.9	2.20%	9,396	8.80%
Cereals and flour	33.4	66.6	2.20%	9,384	9.40%

Top 10 Rail Ports Along the U.S. - Canada Border: 2022-2023 (Millions USD)



Top 10 Commodities in U.S. - Canada Freight by Rail: 2023

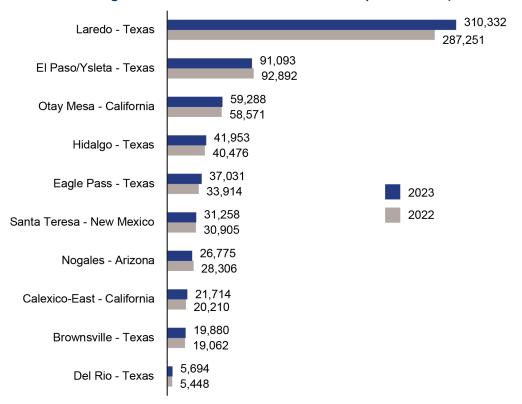
Commodity	% Export	% Import	% of Total	USD (Millions)	2022–2023
Vehicles and parts	46.1	53.9	39.80%	45,345	19.30%
Mineral fuels	24.8	75.2	8.20%	9,341	-23.60%
Plastics	44.3	55.7	5.90%	6,684	-23.00%
Wood	5.5	94.5	5.00%	5,671	-41.40%
Fertilizers	29.7	70.3	4.90%	5,528	-25.40%
Animal or vegetable fats	6.8	93.2	4.60%	5,221	16.40%
Aluminum	1.0	99.0	4.10%	4,617	-8.30%
Organic chemicals	40.4	59.6	3.70%	4,234	-5.60%
Iron and steel	23.8	76.2	3.30%	3,808	-13.10%
Miscellaneous chemicals	61.8	38.2	2.30%	2,626	8.20%

Risk Assessment Ranking: Top U.S. - Canada Freight Crossings: 2023

Port Name	Exports % of Total	Imports % of Total	% of Total Freight Flows	Total USD (\$M 000,000)	Two-Way Truck Crossings	Distance to nearest road crossing (Miles)	Nearest crossing name	
Detroit, Michigan	54.3	45.7	28.4	156,136	3,125,062	65	Port Huron, Michi	gan
Port Huron, Michigan	48.8	51.2	18.4	101,001	1,564,520	65	Detroit, Michigan	
Buffalo, New York	53.6	46.4	15.3	84,099	1,785,676	36	Niagara, New Yor	k
Pembina, North Dakota	51.2	48.8	5.7	31,442	489,008	20	Neche, North Dak	ota
Peace Arch Blaine, Washington	51.9	48.1	4.7	26,080	712,042	2	Pacific Hwy Blaine, Washingto	
Champlain, New York	39.8	60.2	4.6	25,486	527,378	20	Overton Comers, New York	
Portal, North Dakota	58.2	41.8	3.7	20,180	180,066	23	Northgate, North Dakota	
Alexandria Bay, New York	44.8	55.2	3.5	19,478	372,922	48	Ogdensburg, New	York
Sweetgrass, Montana	46.1	53.9	3.3	17,893	300,840	72	Del Bonita, Mont	ana
Int'l Falls, Minnesota	31.8	68.2	2.6	14,101	33,596	68	Baudette, Minnes	ota

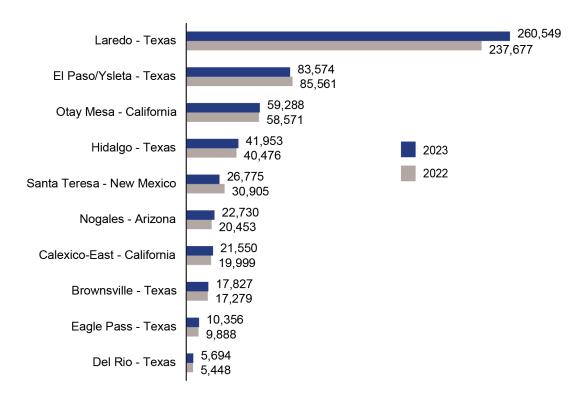
## U.S. - MEXICO FREIGHT BY TRUCK AND RAIL

Top 10 Land Ports Along the U.S. - Mexico Border: 2022-2023 (Truck + Rail, Millions USD)



Source: Bureau of Transportation Statistics, Transborder Freight Data, available at <a href="https://data.bts.gov/stories/s/myhq-rm6q">https://data.bts.gov/stories/s/myhq-rm6q</a>, adapted from U.S. Census Bureau, International Trade in Goods and Services

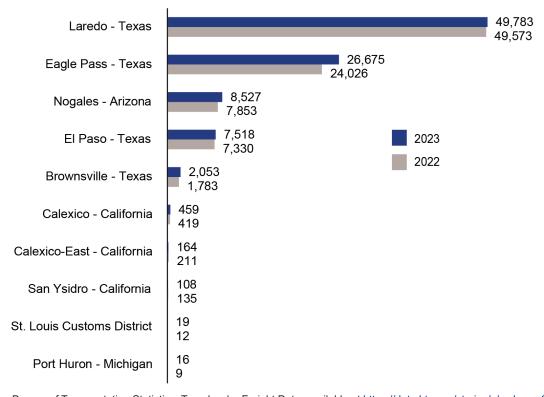
Top 10 Truck Ports Along the U.S. - Mexico Border: 2022-2023 (Millions USD)



Top 10 Commodities in U.S. - Mexico Freight by Truck: 2023

Commodity	% Export	% Import	% of Total	USD (Millions)	2022–2023
Electrical machinery	36.8	63.2	22.50%	125,999	6.20%
Computers	34.9	65.1	19.90%	111,501	-5.40%
Vehicles and parts	25.1	74.9	14.80%	83,250	19.00%
Measuring instruments	30.4	69.6	5.30%	29,970	17.80%
Plastics	72.5	27.5	4.40%	24,766	1.40%
Furniture	12.3	87.7	2.60%	14,788	2.00%
Iron and steel	52.5	47.5	2.40%	13,711	2.30%
Fruit and nuts	9.7	90.3	2.10%	11,545	3.80%
Vegetables and roots	4.7	95.3	1.70%	9,636	7.40%
Rubber	54.0	46.0	1.40%	7,650	10.30%
Mineral fuels	98.7	1.3	1.30%	7,280	15.00%

Top 10 Rail Ports Along the U.S. - Mexico Border: 2022-2023 (Millions USD)



Source: Bureau of Transportation Statistics, Transborder Freight Data, available at <a href="https://data.bts.gov/stories/s/myhq-rm6q">https://data.bts.gov/stories/s/myhq-rm6q</a>, adapted from U.S. Census Bureau, International Trade in Goods and Services

Note: Rail shipments from Mexico to St. Louis and Port Huron indicate CBP customs clearing districts.

Top 10 Commodities in U.S. - Mexico Freight by Rail: 2023

Commodity	% Export	% Import	% of Total	USD (Millions)	2022–2023
Vehicles and parts	10.2	89.8	51.20%	48,779	14.50%
Computer machinery	31.7	68.3	8.40%	8,002	5.20%
Beverages and pirits	2.6	97.4	5.40%	5,131	9.00%
Mineral fuels	93.4	6.6	5.20%	4,913	3.70%
Cereals	99.9	0.1	4.70%	4,441	-0.90%
Plastics	80.3	19.7	3.90%	3,712	-24.10%
Iron and steel	63.0	37.0	3.40%	3,247	-22.20%
Oil Seeds and fruits	99.9	0.1	2.10%	2,042	-16.30%
Electrical machinery	31.4	68.6	1.70%	1,593	17.50%
Food residues	98.9	1.1	1.60%	1,541	-6.10%
Inorganic chemicals	68.8	31.2	1.20%	1,161	-10.70%

Risk Assessment Ranking: Top U.S. - Mexico Freight Crossings: 2023

Port Name	Exports % of Total	Imports % of Total	% of Total Freight Flows	Total USD (\$M 000,000)	Two-Way Truck Crossings	to nearest road crossing (Miles)	Nearest crossing name		
Laredo - Texas	39.1	60.9	47.3	310,332	5,872,260	20	Colombia-Solidarity, Texa		Гexas
El Paso/Ysleta - Texas	35.1	64.9	11.2	91,093	1,460,878	22	Santa Teresa, New Mexic		exico
Otay Mesa - California	36.2	63.8	9.0	59,288	2,068,376	27	Tecate, California		
Hidalgo - Texas	34.4	65.6	6.4	41,953	1,417,452	11	Pharr, Texa	as	
Eagle Pass - Texas	31.1	68.9	5.6	37,031	421,418	55	Del Rio, Texas		
Nogales - Arizona	32.5	67.5	4.8	31,258	763,938	95	Naco, Arizona		
Santa Teresa - New Mexico	36.9	63.1	4.1	26,775	357,508	22	El Paso - Texas		
Calexico-East - California	38.6	61.4	3.3	21,714	916,318	20	Calexico West-Sentri, Ca		California
Brownsville - Texas	54.3	45.7	3.0	19,880	650,448	33	Los Indios	, Texas	
Del Rio - Texas	39	61	0.9	5,694	156,992	55	Eagle Pass	, Texas	

Note: Colors indicate risk levels: red is high, yellow is moderate, and green is low. Two-way truck crossing counts are estimates based on doubling of one-way counts.

Sources: Bureau of Transportation Statistics, Transborder Freight Data, available at https://data.bts.gov/stories/s/myhq-rm6q, adapted from U.S. Census Bureau, International Trade in Goods and Services, Bureau of Transportation Statistics, Border Crossing/Entry Data, available at <a href="https://data.bts.gov/stories/s/jswi-2e7b">https://data.bts.gov/stories/s/jswi-2e7b</a>