

Trade Currents Navigator



January 2024





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Introduction

U.S. international trade volumes have been turbulent from 2020 through 2023, with the COVID pandemic leading to a brief but sharp recession in 2020, followed by record-breaking economic stimuli, an inflationary spiral, and credit tightening by the Federal Reserve Bank. The war in Ukraine, the Israel-Hamas war, and other global economic dynamics have added further uncertainties to global trade prospects.

This edition of the Trade Currents Navigator examines U.S. containerized trade, focusing on:

- 1) Economic indicators that drive trade demand (from U.S. Bureau of Economic Analysis data)
- 2) The top commodities that have contributed to increases or decreases in containerized imports and exports (from U.S. Census Bureau data reported through November 2023)

The granular data used to measure real containerized trade volumes by commodity is in weight terms as reported by the Census Bureau. Commodities are defined by Harmonized System codes (see Appendix).

Recent trade volumes are compared with historic trends and seasonal patterns to offer insights into how they may return to those trend levels and seasonality in the remainder of 2023 and 2024.

Trade Currents

Trade Currents was created to improve the understanding of U.S. international goods trade. The founding partners include internationally recognized economists and trade analysts Walter Kemmsies, Andrei Roudoi, and Scudder Smith. Trade Currents is a partner with AAPA in support of its Port Statistics Program to benefit ports, as well as the broader trade and logistics industry, research community, policymakers, and private institutions.

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Executive Summary

Macroeconomic Factors:

- Consumer spending remained strong in 2023 despite the Federal Reserve (Fed) hiking interest rates. Construction has not held up as well except for expenditures on new manufacturing facilities, which in the third quarter of 2023 were 85% higher than the quarterly average from 2019 to 2022.
- It is likely that real consumer spending on goods will gradually approach the long-term growth trend; nonresidential investment will continue to rise; and, due to housing shortages, residential investment will start recovering, driving demand for imported housing fixtures, furniture, and other housing goods.

Imports:

- On a monthly basis, containerized imports trended upwards starting from March 2023, and in the fall of 2023, they were 1% above the normal seasonal level.
- Containerized imports boomed during the COVID pandemic, bolstered by stimulus funding and shifts in consumer spending from services to goods. However, imports started to decline in the summer of 2022, as stimulus impacts faded, monetary policy tightened, and retailers accumulated excessive inventories.
- From January to November 2023, imports declined 12.9% year-over-year, with furniture and wood accounting for almost a quarter of the total decline. However, the gap below the trend stabilized at 7%-8% in the summer of 2023 and then narrowed to 5% in November largely boosted by solar panel imports.
- In 2024, a modest 4.2% recovery is expected. Wood and furniture imports are expected to grow faster than total containerized imports partly because their gaps below long-term trends are especially large.

Exports:

- Containerized exports grew on a month-by-month basis starting in July 2023, and in the fall of 2023, they
 were 3% above the normal seasonal level.
- However a year-over-year drop in 2023 export volumes continued a declining trend. Containerized export volumes peaked in 2018 and have since fallen each year with no boost related to the COVID stimulus.
- In the first eleven months of 2023, containerized export volumes fell 4.4% year-over-year. A broad-based
 decline in waste paper exports to almost all major destinations was responsible for more than a third of
 the total export contraction.
- After volumes fluctuated during the pandemic, plastics in primary forms has reemerged as the main commodity contributing to containerized export growth, as U.S. production benefited from access to relatively inexpensive hydrocarbon feedstocks.
- In 2024, exports are projected to post a modest 1.6% increase. Exports of plastics in primary forms are likely to continue robust growth, and waste paper exports are expected to register a marginal gain.

Key Risk Factors:

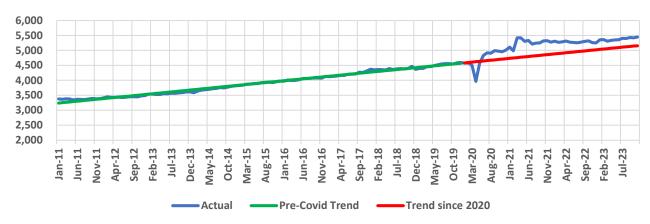
- A worsening geopolitical situation, such as a possible spread of the Middle East conflict, could lead to imported volumes below projections. Such declines could occur due to added costs resulting from trade route relocations or higher security and insurance costs, possibly leading to increased domestic sourcing.
- Monetary policy is expected to loosen in 2024, as the Fed switches its focus from inflation to economic growth. However, persistent inflation could slow the Fed's propensity to reduce interest rates. On the other hand, quickly easing inflation or a threat to economic growth coming, for example, from significantly aggravated geopolitical instability, could prompt the Fed to relax monetary policy more quickly.
- Volatility in containerization rates is also a risk to volume projections, both positive and negative, with
 exports more likely to switch between bulk and containerized shipment than imports.

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Macroeconomic Developments

Consumer Spending:

- As a result of stimulus funding and changes in consumer spending patterns, real consumer spending on goods has been consistently above the long-term pre-COVID trend since June 2020. In November 2023, goods spending was 5% above the trend, with little change recorded recently.
- Barring growth in unemployment, spending on goods is expected to gradually approach the long-term trend without a significant decline.
- In addition, a revival in spending on services could boost imports of food and beverages for restaurant consumption, as well as goods related to travel.



Real Consumer Spending on Goods, billions of 2017 dollars, seasonally adjusted at annual rates

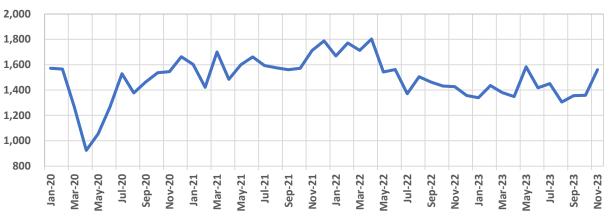
Sources: Bureau of Economic Analysis, Trade Currents estimates

Fixed Investment:

- While the Federal Reserve's monetary policy has not reduced consumer spending to pre-pandemic trend levels, it has had a major negative impact on fixed investment.
- Real residential investment, after stagnating in 2018 and 2019, boomed during the COVID pandemic starting in the third quarter of 2020. The boom lasted through the first half of 2022, but residential investment then dropped steeply. By the first quarter of 2023, real residential investment fell to a level not seen since 2015.
- There was no pandemic-related boom for real non-residential investment.
- Following a drop in the first half of 2020, non-residential investment in equipment posted small gains, reaching an all-time high in the third quarter of 2022, but volumes have since stabilized.
- Real non-residential investment in structures fell sharply during the pandemic. By the third quarter of 2022, this investment contracted to the lowest level since 2013. However, since the third quarter of 2022, non-residential investment in structures has been rising.
- The major types of fixed investment residential investment and non-residential investment in structures and equipment – have substantial growth potential that could be limited if interest rates remain high.
- Seasonally adjusted housing starts increased every month during the fall of 2023. This may represent a reversal of the downward trend that started in May 2022 and bodes well for residential investment, especially given the announced monetary policy relaxation.

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- Non-residential investment prospects are also positive. Non-residential investment in structures has been gaining momentum primarily due to increases in construction of manufacturing facilities, as the U.S. seeks to repatriate production, including the manufacturing of autos, computer components, and healthcarerelated products. A notable exception to a positive outlook is office building construction.
- A recovery in non-residential investment in structures would positively affect imports of building materials, appliances, furniture, and other furnishings.
- Trucks could be a non-residential equipment commodity with growth potential, recovering from a slump in 2020 through the first half of 2022. Investment in computers and peripheral equipment may also have bottomed out and could resume growing. In contrast, investment in construction machinery apparently reached a plateau after strong growth in 2021 and 2022.

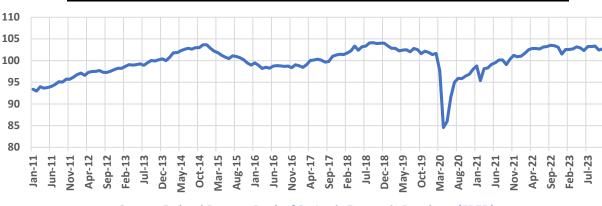


New Privately-Owned Housing Units Started, thousands, seasonally adjusted at annual rates

Source: Federal Reserve Bank of St. Louis Economic Database (FRED)

Industrial Production:

- Real industrial production has stagnated since the fall of 2022, following a long recovery from the slump at the beginning of the COVID pandemic. COVID stimulus funding did not result in increased industrial production, which has remained below the peak levels at the end of 2018.
- Real industrial production is likely to start rising, boosted by recent investment and retailers' inventories being trimmed back to more sustainable levels given the level of their sales.



Real Industrial Production, index numbers (2017 = 100), seasonally adjusted

Geopolitical Developments and Risks:

- The geopolitical environment is an important risk for macroeconomic assumptions and trade forecasts, with China, Russia, Iran, and North Korea challenging the U.S., Europe, and allies for global influence. Armed conflicts in Ukraine and the Middle East are contributing to this risk.
- The macroeconomic and trade outlook assumes that geopolitical tensions will not become significantly worse in 2024. Geopolitical assumptions behind the macroeconomic and trade outlook for 2024 include:
 - ✓ The Houthi/Red Sea conflict will improve, though not necessarily quickly.
 - ✓ Iran will not be directly involved in military actions in the Middle East and will continue acting through its proxies.
 - ✓ China will not take overly aggressive actions toward Taiwan.
 - ✓ The Russia-Ukraine war will not expand to other European countries.
- Impacts of the Houthi/Red Sea conflict
 - ✓ Houthi attacks on vessels are increasing the cost of shipping goods between Asia and North America/Europe. These increased costs result from higher insurance premiums for Red Sea/Suez Canal transits or increased ship operating costs from longer distance services rerouted around the Cape of Good Hope. These higher costs will likely be passed on to beneficial cargo owners and consumers.
 - ✓ Under the base case scenario, the Houthi/Red Sea issues will improve, and the cost of moving containers via the Red Sea/Suez Canal could decline towards previous levels. The Fed has already indicated that it would reduce the short-term interest rate (Federal Funds Rate) in 2024. This reduction would likely give economic growth a boost, with U.S. import volumes rising. Export volumes could also be expected to increase since lower U.S. interest rates usually result in a lower value for the U.S. dollar. Since most U.S. exports are agricultural and industrial commodities, the lower cost to importers of these commodities could lead to higher exports.
 - ✓ Under a less likely scenario, Red Sea issues would not improve, and the cost of shipping goods between Asia and North America/Europe could continue to rise. Further disruptions to supply chains could be expected, with resulting price increases adding to overall inflation. In this case, the Fed would face a dilemma. It could make monetary policy more restrictive, which would dampen economic growth and imports. Alternatively, the Fed could focus on stimulating economic growth hurt by supply issues, by reducing the Fed Funds Rate more than currently anticipated.

Containerized Imports

Outlook:

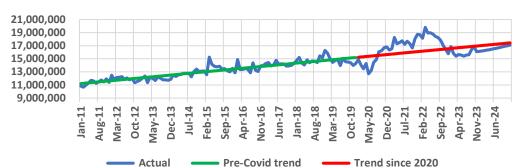
- Following normal seasonal patterns, containerized import volumes are likely to trend downward through February 2024 before peaking in July-August, the typical peak season.
- On a year-over-year basis, imports will likely grow slightly in December 2023, registering the first increase since October 2022. For 2024, a modest 4.2% recovery is expected, following a 12% slump in 2023.

Outlook Background:

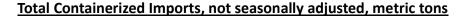
- Containerized imports surged during the pandemic as a result of stimulus funding and changes in consumer spending patterns. In March 2022, the gap above the pre-COVID trend reached 22%.
- As the stimulus impact faded and monetary policy tightened, imports dropped in the second half of 2022, but the decline appears to be over. The gap below the trend stabilized at 7%-8% during the summer of 2023 and then narrowed to 5% in November. The negative gap will likely shrink to 2% in the fall of 2024.

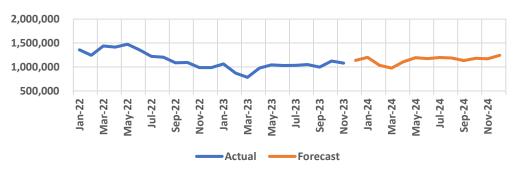
Key Risks:

- Geopolitical instability is the main risk factor. This includes spread of the Middle East conflict, which may
 result in major sea transportation disruptions and a significant rise in energy prices.
- China's economic woes and tensions with the U.S. could lead to import volumes lower than expected.
- The number and timing of interest rate cuts by the Fed are uncertain. The pace of monetary policy relaxation may have an impact on imports in either positive or negative directions.
- Containerization volatility and changes in competition with overland shipments from Canada and Mexico could reduce or increase containerized import volumes from current projections.



Total Containerized Imports, seasonally adjusted, metric tons





Principal Commodities - Import Volumes

Solar panels and other photosensitive semiconductor devices was the top growth commodity with containerized tons increasing in January through November 2023 over the same period in 2022. The other top commodities with year-over-year growth in 2023 include cars; cyclic hydrocarbons; construction and lifting machinery; and lithium-ion batteries.

Commodities for which commodity volumes decreased the most in January to November 2023 over 2022 were wood; furniture; plastics; machinery (except construction and lifting); and articles of iron or steel.

	Thousands of metric tons			Year-over-year growth rates			
Commodity	Jan-Nov 2022	Jan-Nov 2023	Jan-Nov difference	Jan-Nov 2023	Dec-23	Total 2023	2024
Total commodities	202,098	175,938	-26,160	-13%	2%	-12%	4%
		Top growth	n commoditie	S			
Photosensitive semiconductor devices	1,660	3,221	1,561	94%	13%	83%	15%
Cars	609	1,223	614	101%	53%	95%	-10%
Cyclic hydrocarbons	224	669	444	198%	0%	159%	-14%
Construction and lifting machinery	1,016	1,374	359	35%	6%	32%	6%
Lithium-ion batteries	548	739	191	35%	21%	33%	19%
	Commodities with largest volume declines						
Articles of iron or steel	9,447	8,187	-1,261	-13%	15%	-11%	8%
Plastics	13,234	11,734	-1,500	-11%	12%	-10%	4%
Machinery, except construction and lifting	13,264	11,690	-1,574	-12%	-2%	-11%	3%
Furniture	13,881	11,051	-2,830	-20%	15%	-18%	13%
Wood	9,728	6,534	-3,194	-33%	-9%	-31%	11%

Containerized Imports



Photosensitive Semiconductor Devices

Outlook:

- Imports of solar panels and other photosensitive semiconductor devices are expected to decline slightly by January 2024 due to seasonal patterns.
- Strong growth is expected in the spring of 2024, prior to the introduction of new tariffs that will likely
 result in a significant volume decline in the second half of 2024.

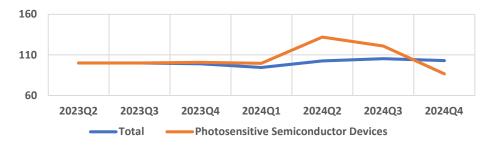
Outlook Background:

- Photosensitive semiconductor devices are in exceptionally high demand.
- However, in August 2023 the U.S. Department of Commerce determined that Cambodia, Malaysia, Thailand, and Vietnam, which account for over four-fifths of U.S. solar panel containerized imports, circumvented tariffs imposed on China. As a result, some imports from these countries are expected to be subject to tariffs starting in June 2024.

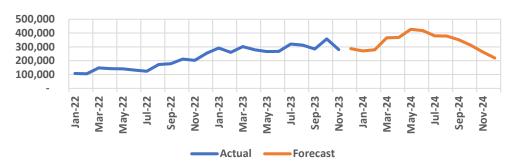
Key Risks:

- A substantial share of imported solar panels from the four countries listed above may be exempt from the tariffs following a certification process that would show compliance with U.S. regulations.
- Solar panel containerized imports from India are growing much faster than imports from the four countries, which may significantly dampen the impact of tariffs. At the same time, Red Sea shipping disruptions may dampen imports from that country.
- Political decisions between now and next June may have a major impact on solar panel tariffs and imports in positive or negative directions.

Containerized Imports, 2023Q3 = 100



Photosensitive Semiconductor Devices, Containerized Imports, metric tons





Cars

Outlook:

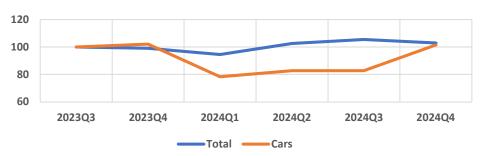
- Containerized car imports are unlikely to return to the peak levels of May-June 2023 by the end of 2024.
- January to May are typically low-volume months, and import volumes are expected to fall significantly in the first quarter of 2024 and remain low until a rebound in the fourth quarter.

Outlook Background:

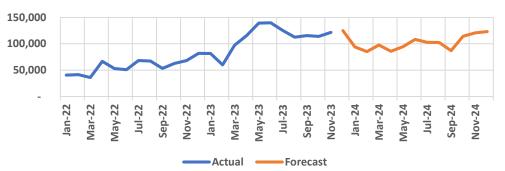
- Total seaborne import volumes contracted 7% between 2019 and 2022. Over the same period, containerized car imports surged 128%, as containerization rates rose from 4% in 2019 to 9% in 2022.
- In January-November 2023, containerization grew further, to 15%, the main reason that containerized imports increased 101% year-over-year, more than five times as fast as total seaborne car imports. Imports from South Korea contributed three quarters of this growth. Containerization is likely to decline from currently high levels.

Key Risks:

- Containerized car import volumes are more dependent on highly volatile containerization rates than on U.S. demand for cars or production capacity abroad.
- The strong demand for cars could be dampened, and the overall car import recovery from the COVIDrelated slump may end, especially if monetary policy relaxation proceeds slowly.
- Competition with mostly overland imports from Canada and Mexico could dampen seaborne car imports. Those countries' share of U.S. imports rose from 40% in 2021 to 44% in the first eleven months of 2023.



Containerized Imports, 2023Q3 = 100



Cars, Containerized Imports, metric tons



Construction and Lifting Machinery

Outlook:

- The usual peak import season for construction and lifting machinery is from March through July, while February and September are typically lower-volume months.
- Construction and lifting machinery import volumes are projected to grow faster than total containerized imports through the first half of 2024.

Outlook Background:

- Unlike many other imported commodities, construction and lifting machinery volumes did not boom as a result of COVID-related stimulus funding. However, imports grew significantly in the second half of 2022, when overall containerized imports significantly declined.
- The recent strong growth in imports appears to be waning, and volumes were relatively stable between April and November 2023 compared to the steep increases in 2022.

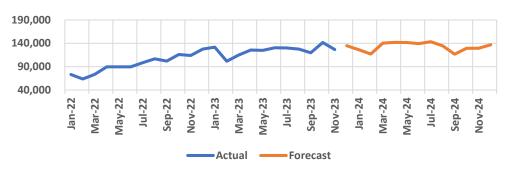
Key Risks:

- The recent strong increase in construction machinery imports is not in line with fixed investment growth, and there is therefore a risk of import decline.
- Persistent inflation and a delayed relaxation of monetary policy could cause a decrease in residential investment and suppress demand for construction machinery.
- Containerization rates increased from 47% in the first eleven months of 2022 to 49% in the corresponding period of 2023 but remained below the peak rate of 54% reached in 2016. Continued rise in containerization rates could lead to higher containerized volumes than those projected.



Containerized Imports, 2023Q3 = 100

Construction and Lifting Machinery, Containerized Imports, metric tons





Cyclic Hydrocarbons

Outlook:

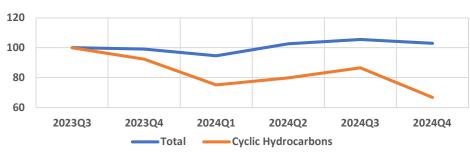
- The second and third quarters are usually the peak import season for cyclic hydrocarbons (comprised mostly of benzene and para-xylene).
- Volumes likely decreased in December 2023, and are expected to continue declining in the first quarter of 2024. Despite an expected increase in the second and third quarters of 2024, total volumes will likely drop in 2024.

Outlook Background:

- Unlike many other imported commodities, cyclic hydrocarbons import volumes did not experience a boom related to COVID-related stimulus funding. However, imports grew in the second half of 2022.
- In January-November 2023, imports of containerized cyclic hydrocarbons surged 198% year-over-year as containerization increased from 7% to 16%. This containerization is extremely high by historical standards it was 5%, on average, in 2015-2021 and is likely to decline.
- Even though volumes reached another peak in July 2023, the strong growth appears to be over. In the fall of 2023, imports were 1% below the normal seasonal levels.

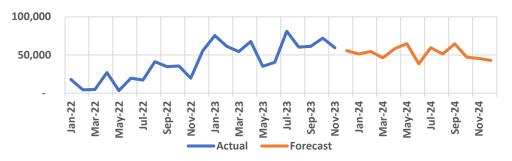
Key Risks:

- Volumes of containerized cyclic hydrocarbon imports are more dependent on highly volatile containerization rates than on U.S. demand or production capacity abroad.
- A spread of the Middle East conflict, supply disruptions, a rise in hydrocarbon prices, as well as competition with domestic cyclic hydrocarbon production, especially the production of para-xylene, could dampen U.S. import volumes more than currently projected.











Lithium-Ion Batteries

Outlook:

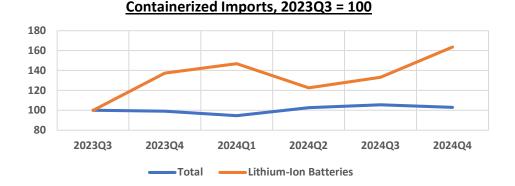
- The recent resumption of lithium-ion battery import growth is likely sustainable. Nevertheless, in the second quarter of 2024, volumes will likely decline due to seasonal factors.
- Overall, strong growth is likely to continue through most of 2024 and beyond. Volumes may reach the
 extraordinarily high levels of early 2023 by January 2024 or, more likely, by the year-end.

Outlook Background:

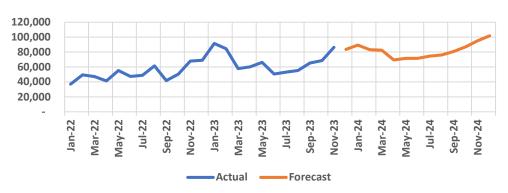
- Lithium-ion batteries is an exceptionally strong growth commodity compared to total containerized imports.
- After a sharp increase in 2022 and, especially in January 2023, imports declined to relatively moderate levels, but growth resumed in the third quarter of 2023.

Key Risks:

- While annual growth potential appears to be strong, monthly and quarterly volatility is high.
- The U.S. is trying to move its supply sources away from China, the dominant supplier of lithium-ion batteries to the U.S. Nevertheless, China's share of U.S. lithium-ion battery imports rose from 78% in the first eleven months of 2022 to 86% over the same period of 2023. The near-term ability of other countries to compete with China in the U.S. import lithium-ion battery market is questionable. Lithium-ion battery imports from Japan, the second largest origin in 2022, plummeted in 2023.









Articles of Iron or Steel

Outlook:

- Containerized imports of iron or steel articles are expected to rise by May 2024, which is typically the peak import month. The volumes will likely be the highest in the second quarter of 2024 and the lowest in the fourth quarter.
- Overall, in 2024 imports of iron or steel articles are likely to grow faster than total containerized imports.

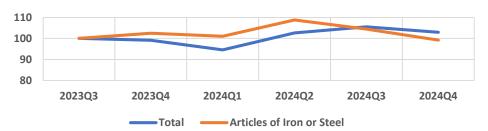
Outlook Background:

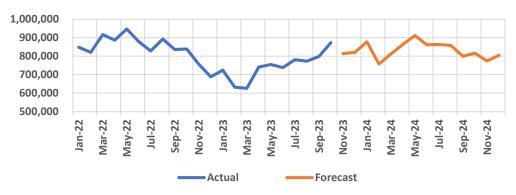
- In 2010 to 2022, containerized imports of iron or steel articles grew faster than total containerized imports.
- After a boom during the pandemic, imports of iron or steel articles dropped sharply. The gap below the pre-COVID trend was 17% in March 2023.
- However, volumes increased to 2% above the long-term trend in November 2023. They are likely to fall toward the trend by the summer of 2024 and stay at that level for the remainder of the year.
- The containerization rate was an exceptionally high 83% in November 2023. It will likely decline in the next several months.

Key Risks:

- China, India, and Taiwan accounted for almost two thirds of iron or steel articles containerized imports in 2023. Rising tensions with China and Red Sea transportation disruptions (for India) may suppress imports.
- Rising competition with imports from Mexico and Canada (mostly overland) could dampen containerized imports. Canada and Mexico's share of total import value increased from 25% in January-November 2022 to 27% in the same months of 2023.

Containerized Imports, 2023Q3 = 100





Articles of Iron or Steel, Containerized Imports, metric tons



Machinery

Outlook:

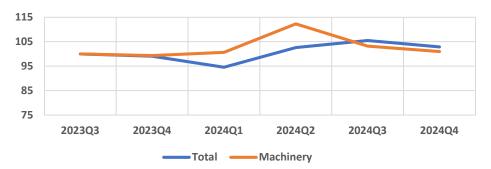
- Following normal seasonal patterns, machinery imports will likely fall slightly by February 2024. A seasonal
 recovery is likely to start in March and peak in May 2024.
- Machinery import volumes will likely outpace total containerized imports through the second half of 2024.
 Overall, in 2024, volumes are expected to post modest year-over-year growth.

Outlook Background:

- From 2010 to 2022, machinery imports grew significantly faster than total containerized imports.
- After a boom during the pandemic, volumes declined to 5% below the pre-COVID long-term trend in May and June of 2023. However, by November, the gap narrowed to 2% below the trend. Volumes are expected to closely approach the trend by the end of 2024.

Key Risks:

- Persistent inflation and a delayed relaxation of monetary policy could suppress investment in equipment and, therefore, demand for machinery.
- Rising competition with imports from Canada and Mexico (mostly overland) could dampen containerized imports. Mexico's share of *refrigerator and freezer* imports increased to 34% in January-November 2023 from 29% a year earlier. *Taps, valves, bearings, transmission shafts, gears, and gaskets* are also among commodities with rising shares of imports from Canada and Mexico.









Plastics

Outlook:

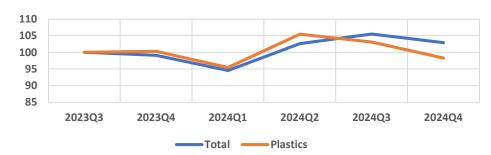
- Following normal seasonal patterns, plastics imports (primary forms and plastic articles combined) are expected to decline through February 2024, and then rise significantly by May 2024, the seasonal peak.
- Containerized plastics imports will likely grow slightly faster than total containerized imports through the second quarter of 2024, before falling in the second half of the year.

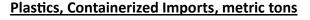
Outlook Background:

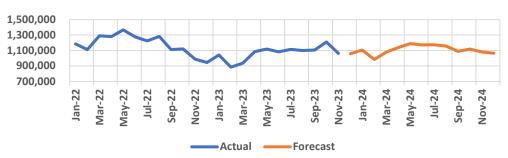
- From 2010 to 2022, plastics was a strong-growth commodity, significantly outpacing growth of total containerized imports. However, after a boom during the pandemic, plastics imports declined between May 2022 and February 2023, but then partly recovered and were mostly stable from April to October.
- Despite a significant year-over-year drop, plastics imports in 2023 remained above the pre-COVID trend, unlike many other commodities for which imports posted sharp year-over-year declines. In November, plastics imports gap above the trend was 3%. Volumes will likely fall toward the trend by the end of 2024.

Key Risks:

- China and Taiwan accounted 53% of U.S. containerized plastics imports in 2023 year-to-date. China's rising tensions with the U.S. and Taiwan may suppress imports.
- Competition with imports from Canada and Mexico (mostly overland) could dampen containerized import volumes. Canada and Mexico's share of total plastics import value rose from 27% in 2020 and 29% in 2022 to 31% in the first eleven months of 2023.
- Competition with domestic plastics production could lessen demand for imports.









Wood

Outlook:

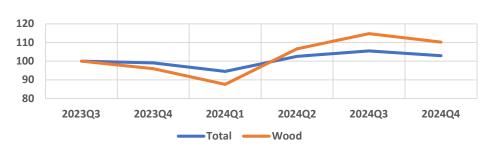
- Containerized wood import volumes are projected to decline through February 2024, a typical low-volume month. Import volumes are then likely to start recovering, peaking in August 2024.
- Containerized wood import volumes are expected to grow significantly faster than total containerized imports in the second and third quarters of 2024.

Outlook Background:

- In 2010 through 2022, containerized wood import volumes grew faster than total containerized imports.
 However, after a boom during the pandemic, volumes dropped dramatically.
- On the positive side, volumes increased in recent months, with a notable exception of November 2023. Volumes below the pre-COVID trend narrowed from 33% in June 2023 to 28% in November, and in the fall of 2023, imports followed the normal seasonal pattern. Wood import volumes will likely continue increasing, with the gap below the trend expected to shrink to 14% by the end of 2024.

Key Risks:

- Persistent inflation and a delayed relaxation of monetary policy could cause a decline in investment.
- Wood import containerization rates rose from 73% in the first eleven months of 2022 to 74% in the same period of 2023. However, this containerization is low by historical standards, increasing the possibility that it could rise, further boosting containerized wood import volumes.
- Competition with imports from Canada (that are almost all overland) contributes to seaborne import volatility. For some commodities, such as *particle board*, seaborne imports have been losing share, while for others, including *wood sawn lengthwise*, *etc.*, seaborne shares have been growing.









Furniture

Outlook:

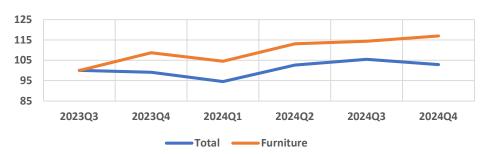
- Containerized furniture imports are expected to grow faster than total containerized imports.
- January 2024 will likely be the next seasonal import peak, followed by a low-volume month in March 2024.

Outlook Background:

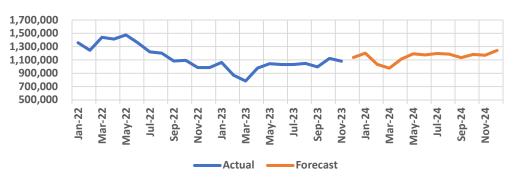
- In 2010 to 2022, containerized furniture imports grew faster than total containerized imports.
- After a boom during the pandemic, furniture imports dropped sharply. However, the gap below the pre-COVID trend narrowed from 28% in March 2023 to 14% in November 2023. Consumer spending on furniture has been close to its long-term trend, and imports are therefore likely to continue to increase toward their long-term trend. By the end of 2024, the gap below the trend is expected to shrink to 9%.

Key Risks:

- China accounts for almost half of U.S. containerized furniture imports. Rising tensions with China may dampen imports.
- If inflation is persistent and tight monetary policy is relaxed too slowly, this could cause a decline in residential and office investment, and therefore lower furniture sales and import volumes.
- Rising competition with overland transportation could lead to declines in containerized imports. The share
 of Mexico and Canada import value (almost exclusively overland) rose from 24% in the first eleven months
 of 2022 to 30% in the same period of 2023.
- A shift to remote work could further dampen demand for office furniture and slow the recovery of furniture imports.







Containerized Exports

Outlook:

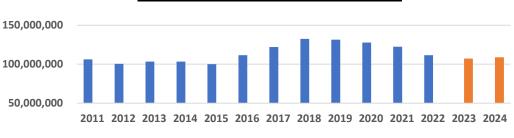
- Containerized export volumes are projected to fall by January 2024 due to seasonal factors and an
 expected decline in soybean commodity containerization rates. Volumes will then likely rise by March, the
 typical peak month, and trend downward again in the remainder of 2024.
- Export volumes are estimated to have fallen 4% in 2023 but are expected to grow a modest 1.6% in 2024.

Outlook Background:

- U.S. containerized exports peaked in 2018 but have since declined each year. Unlike for containerized imports, for exports there was no boom related to the COVID stimulus.
- A drop in waste paper exports to China accounted for a third of the total volume decline between 2018 and 2022. During 2023 through November, a broad-based decline in wastepaper exports accounted for more than a third of the total containerized export volume contraction.
- Containerized exports grew on a month-by-month basis beginning in July 2023. Overall, plastics in primary
 forms has been the main export growth commodity. In November 2023, a sharp, but likely temporary,
 increase in soybean and soybean oilcake containerization rates was the key contributor to growth.

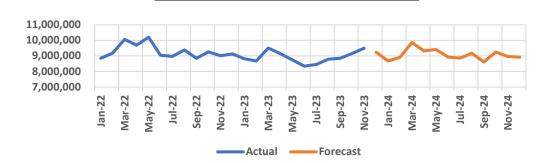
Key Risks:

- Containerized exports are more vulnerable to containerization volatility than imports since many exported U.S. commodities have significant bulk and break bulk shares.
- Policies in developing countries aimed at improving environmental protection and utilization of domestically produced waste could dampen global demand for a large portion of containerized exports.



Total Containerized Exports, metric tons





Principal Commodities - Export Volumes

Plastics in primary forms was by far the top commodity with containerized tons increasing from January through November 2023 over the same period in 2022. The other top commodities with year-over-year growth in 2023 include starch manufacture residues, sugar manufacture waste, etc.; natural sands; cars; and soybean oilcake.

Commodities for which commodity volumes decreased the most in January to November 2023 over 2022 were waste paper; forage; cotton; wood in the rough; and kraft paper.

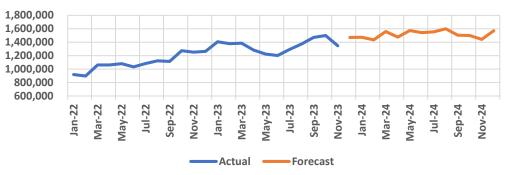
	Thousands of metric tons			Year-over-year growth rates			
Commodity	Jan-Nov 2022	Jan-Nov 2023	Jan-Nov difference	Jan-Nov 2023	Dec-23	Total 2023	2024
Total commodities	102,484	97,946	-4,538	-4%	1%	-4%	2%
Top growth commodities							
Plastics in primary forms	11,896	14,863	2,968	25%	16%	24%	12%
Starch manufacture residues, sugar manufacture waste, etc.	3,339	4,379	1,040	31%	25%	31%	0%
Natural sands	618	993	375	61%	-36%	52%	-30%
Soybean oilcake	502	800	298	59%	179%	71%	27%
Cars	1,278	1,527	249	19%	2%	18%	2%

Containerized Exports

Commodities with largest volume declines							
Kraft paper	2,082	1,827	-255	-12%	41%	-9%	12%
Wood in the rough	1,861	1,411	-450	-24%	-18%	-24%	-15%
Cotton	3,404	2,712	-692	-20%	15%	-19%	-4%
Forage	4,076	3,048	-1,028	-25%	-7%	-24%	4%
Waste paper	11,203	9,479	-1,724	-15%	-18%	-16%	1%

Plastics in Primary Forms

- After volumes fluctuated during the pandemic, plastics in primary forms has reemerged as the main contributor to containerized export growth, as U.S. production has benefited from access to relatively inexpensive hydrocarbons.
- Robust growth is expected through May 2024 due to strong positive momentum and seasonality factors.
 Volumes will likely stabilize and drop by November, a typical seasonal trough. Overall volumes will likely be much higher in 2024 than in 2023.
- A major risk factor is that half of export increases during 2023 went to China, which is a risky destination for geopolitical reasons and because past plastics export volumes to China have been highly volatile.



Plastics in Primary Forms, Containerized Exports, metric tons

Starch Manufacture Residues, Sugar Manufacture Waste, Etc.

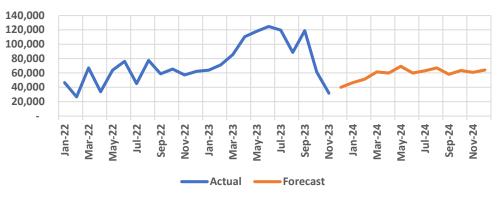
- Containerized exports increased in 2023 largely due to higher containerization of exports to Vietnam, Indonesia, and Turkey. Total seaborne exports of this commodity rose slightly, and seaborne exports to Vietnam declined.
- July and August are typically peak export months, and volumes will likely drop through February 2024 mostly due to seasonal factors. Despite projected seasonal growth in March to July, containerized exports are expected to be flat in 2024 as a whole, as seaborne exports will likely resume a long-term decline.
- A return to historically normal containerization of exports to Vietnam and other countries may result in more significant volume declines in 2024 than currently projected.

Starch and Sugar Manufacture Residues and Waste, Containerized Exports, metric tons



Natural Sands

- Containerized exports of natural sands grew quickly during the COVID pandemic and for most of 2023, largely due to shipments to China. However, the strong growth appears to have waned, and volumes fell sharply in October and November. Volumes may grow through May 2024, but then stabilize and will likely stay significantly below the exceptionally high levels of the middle of 2023.
- Exports of natural sands have been extremely volatile and concentrated in country destinations. Two
 countries China and Japan have accounted for almost 90% of the 2023 year-to-date volumes exported
 in containers.



Natural Sands, Containerized Exports, metric tons

 Containerized car export volumes have grown during 2023 mostly due to shipments of used vehicles to three countries – the United Arab Emirates, Georgia, and Lithuania. However, the strong growth appears to have waned. In the fall of 2023, volumes were 1% below normal seasonal levels.

Cars

- Car export volumes will likely fall by January 2024 due to seasonal factors before rising to seasonally high volumes in the spring of 2024.
- The strong car export growth to the three above-mentioned countries may not be sustainable, and overall containerized car export growth in 2024 will likely be sluggish. A possible global economic downturn caused by the Middle East crisis and rising oil prices could result in a decline in containerized car exports.



Cars, Containerized Exports, metric tons

Soybean Oilcake

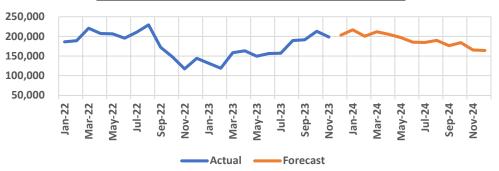
- Soybean oilcake containerized export volumes grew strongly between 2010 and 2019, but this growth was
 interrupted by the COVID pandemic. However, export growth resumed in the fourth quarter of 2022 and
 has continued in 2023.
- The soybean oilcake containerized export volume skyrocketed almost 2.5% month-on-month in November 2023 in large part due to an increase in containerization from 13% in October to an exceptionally high 24% in November. Containerization will likely drop to the pre-pandemic rates of 15% within several months.
- Due primarily to the projected decline in containerization, containerized export volumes will likely decline month-on-month through September 2024 before an expected recovery caused to a great extent by seasonal factors in the fourth quarter of 2024.



Soybean Oilcake, Containerized Exports, metric tons

Kraft Paper

- Kraft paper export volumes contracted sharply in the fall of 2022, and from January to August 2023, they
 were significantly lower than a year earlier. However, since March 2023 they have been recovering on the
 month-on-month basis largely due to demand from China.
- In the fall of 2023, kraft paper export volumes were 4% above the normal seasonal level, and they will likely peak in January 2024.
- Kraft paper exports have a long-term negative trend, and strong Chinese demand is unlikely to last. Therefore, volumes are expected to start falling on a month-on-month basis starting from February 2024. Nevertheless, for 2024 as a whole, kraft paper exports are projected to be significantly higher than in 2023.



Kraft Paper, Containerized Exports, metric tons

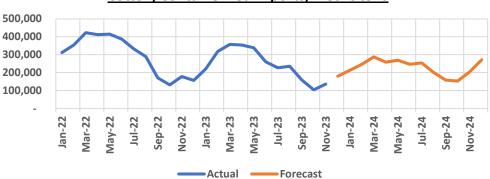
Wood in the Rough

- Containerized exports of wood in the rough rose on a month-by-month basis in 2023 through May, largely
 due to seasonality patterns. However, compared to the same period in 2022, volumes were significantly
 lower. In the summer and fall of 2023, exports dropped from the May peak.
- Seaborne exports of this commodity have been falling over the long term, but containerization rates rose through 2021. Seaborne export declines are expected to continue, possibly accompanied by falling containerization rates, likely resulting in a substantial year-over-year decline in containerized export volumes in 2024.
- China accounts for over half of wood in the rough containerized exports, and its economic woes may result in a more significant wood export decline than is currently projected.



Wood in the Rough, Containerized Exports, metric tons

- A rapid rise in cotton export volumes occurring after 2014 stalled during the pandemic. Cotton exports are highly seasonal, and in 2023, during the peak season of February to May, volumes were significantly less than in 2022. Exports to China (jointly with Hong Kong and Macau) accounted for 43% of the 2023 decline.
- October is typically the month with the lowest export volumes. Due to seasonality, volumes are projected to rise from November 2023 through mid-spring 2024.
- Exports will likely fall in 2024 as a whole, though nearly not as much as in 2023. Falling demand from China, will likely be mostly offset by exports to other Asian countries, such as Pakistan.



Cotton, Containerized Exports, metric tons

Forage

- Forage export volumes fell sharply in December 2022 and January 2023. While volumes often drop during these months, these declines were greater than the seasonal norms.
- Volumes have been trending upward since February 2023. However, due to seasonal factors, they will likely fall by mid-2024, before recovering by November. Overall, a modest increase is projected for 2024, possibly bolstered by exports to the Middle East.
- Historically, forage has been a growing export commodity. However, the increase in seaborne exports between 2010 and 2022 occurred exclusively due to exports to China, which also accounted for two-thirds of the year-to-date fall in 2023. China's economic problems may hamper the currently expected recovery.

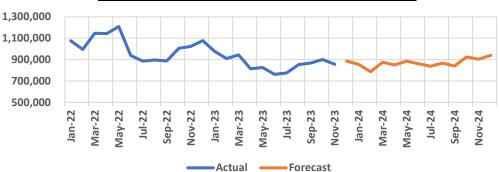


Forage, Containerized Exports, metric tons

 Waste paper exports dropped sharply between the end of 2022 and June 2023. The decline was broadbased, across almost all major destinations. However, volumes started to recover in July, and in the fall of 2023, they were roughly as expected based on the normal seasonal pattern.

Waste Paper

- After a seasonal low in February 2024, exports will likely be relatively flat, with a slight upward trend at the end of 2024. Overall, in 2024, volumes will likely post a marginal increase. Exports to China are currently low, and they are unlikely to decrease much further. Thailand has emerged as a promising importer catching up with India, the main destination.
- Policies in developing countries aimed at improving environmental protection and utilization of domestically produced waste represent a major risk to waste paper exports.



Waste Paper, Containerized Exports, metric tons

Appendix - Commodity Definitions

Commodity	HS Codes	Harmonized System Commodity Description			
Imports					
Articles of Iron or Steel	73	Articles of iron or steel			
Cars	8703	Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 8702), including station wagons and racing cars			
Construction and Lifting Machinery	8426-30	Construction and lifting machinery			
Cyclic Hydrocarbons	2902	Cyclic hydrocarbons			
Furniture	94	Furniture, bedding, mattresses, mattress supports, cushions and similar stuffed furnishings; lamps and lighting fittings, not elsewhere specified or included; illuminated sign illuminated nameplates and the like; prefabricated buildings			
Lithium-Ion Batteries	850760	Lithium-ion batteries			
Machinery, Except Construction and Lifting Machinery	84, excl. 8426-30	Machinery except construction and lifting machinery			
Photosensitive Semiconductor Devices	854140-49	Photosensitive semiconductor devices, including photovoltaic cells whether or not assembled in modules or made up into panels; light- emitting diodes (LED)			
Plastics	39	Plastics and articles thereof			
Wood	44	Wood and articles of wood; wood charcoal			
		Exports			
Cars	8703	Motor cars and other motor vehicles principally designed for the transport of persons (other than those of heading 8702), including station wagons and racing cars			
Cotton	52	Cotton			
Forage	1214	Rutabagas (swedes), mangolds, fodder roots, hay, alfalfa (lucerne), clover, sainfoin, forage kale, lupines, vetches and similar forage products, whether or not in the form of pellets			
Kraft Paper	4804	Uncoated kraft paper and paperboard, in rolls or sheets, other than that of heading 4802 or 4803			
Natural Sands	2505	Natural sands of all kinds, whether or not colored, other than metalbearing sands of chapter 26			
Plastics in Primary Forms	3901-14	Plastics in primary forms			
Soybean Oilcake	2304	Oilcake and other solid residues, whether or not ground or in the form of pellets, resulting from the extraction of soybean oil.			
Starch Manufacture Residues, Sugar Manufacture Waste, Etc.	2303	Residues of starch manufacture and similar residues, beet-pulp, bagasse and other waste of sugar manufacture, brewing or distilling dregs and waste, whether or not in the form of pellets			
Waste Paper	4707	Recovered (waste and scrap) paper and paperboard			
Wood in the Rough	4403	Wood in the rough, whether or not stripped of bark or sap- wood, or roughly squared			