DESCARTES Datamyne

TRADE REPORT & ANALYSIS

2021 U.S. EXPORTS "BIG BOOK"

Analyzing 2020 Exports & the Impact of COVID-19

Reporting the latest available U.S. Census and Bills of Lading data with cumulative trade values over the preceding year. Top commodity rankings based on total FOB Value. COVID-19 impact measured by year-over-year comparisons in value.

GAUGING THE IMPACT OF THE PANDEMIC ON U.S. EXPORTS

The unprecedented disruption of global commerce caused by the coronavirus pandemic has shifted trade flows, upended supply-demand balances, and brought cross-border assembly lines to a standstill. Even as some national economies begin to re-emerge from lockdowns, other vital markets and production hubs remain in – or are returning to – crisis mode.

It is too soon to capture the full effects of the 2020-21 pandemic, too early to distinguish the temporary accommodations from the permanent reordering of international trade.

But we have a wealth of detailed data that tracks the enormous dislocations in import-export trade that began last February. This is hard data that can provide businesses with a clear-eyed view of their options and risks in the light of current market realities.

ABOUT THIS REPORT:

This is a review of the exports the U.S. sent to global markets in the year of the pandemic, intended as a reference on U.S. outbound trade trends for port authorities, carriers, logistics providers, and shippers.

Following the organization of the Harmonized Tariff Schedule of the U.S., export trade value data is provided for each Section of the HTSUS: a month-by-month fluctuation in total value of trade in 2020 compared with 2019, the top country markets for exports by share of value, and the top 10 value-ranked export commodities denoted by 6-digit HS code with a comparison to the previous year's performance.

The accompanying commentary highlights sharp gains or declines in bellwether commodities, with a focus on the immediate measurable impacts of the pandemic. Overall, U.S. exports fell 13.7% in 2020. Most HTSUS Sections closed the year at a loss.

ABOUT THE DATA

This report is based on Descartes Datamyne U.S. Census data, one of more than 140 country datasets that make up the world's largest searchable trade database covering the global commerce of 230 markets across 5 continents.

In addition to Census data on U.S. export trade, Descartes Datamyne offers bill-of-lading data that yields transaction-level information including buyers and sellers, shipment logistics, cargo descriptions, volumes and values. Our national datasets offer added insight into global destinations for U.S. exports, including top markets China, Canada and Mexico, as well as trading partners in South and East Asia, South and Central America, Africa and the EU.

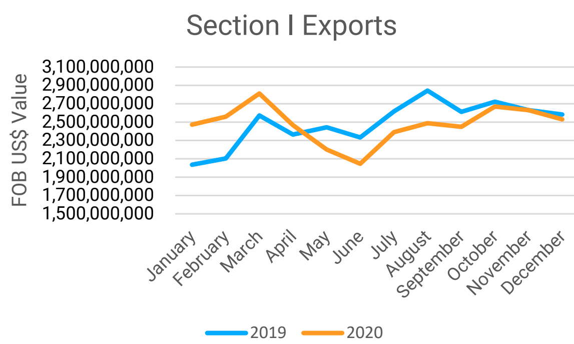
Section I

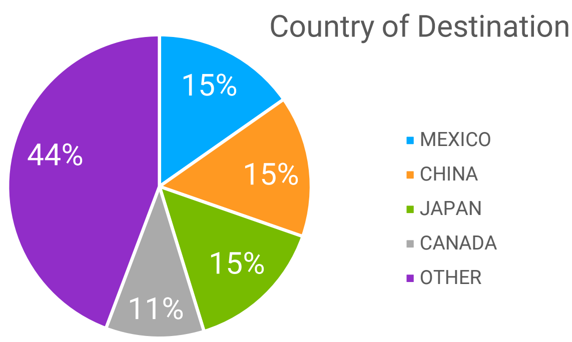
Live Animals; Animal Products

Overview & Digest

U.S. exports categorized under Section I declined a negligible 0.5%, for a $150,689,239 loss in 2020 compared with the preceding year. After robust growth at the start of the year (peaking at 21.5% in February), these exports fell 9.9% in May and 12.3% in June. The steepest decline (by a hair compared with June) was 12.4% posted in August.

- The top product, fresh, chilled or frozen pork [HS0203], accounting for a fifth of export trade in this category, posted a robust year-over-year gain of 14.7% in 2020.
- In contrast, frozen fish (exc. boneless fish) [HS030] fell furthest, ending the year with a 21.3% decline.
- The top gainer was concentrated milk and cream [HS0402], which gained 20% in export value in 2020.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
0203 - MEAT OF SWINE (PORK), FRESH, CHILLED OR FROZEN	5,217,599,579.00	17.48	5,985,995,708.00	20.15	14.73
0207 - MEAT AND EDIBLE OFFAL OF POULTRY (CHICKENS, DUCKS, GEESE, TURKEYS AND GUINEAS), FRESH, CHILLED OR FROZEN	3,749,261,464.00	12.56	3,837,181,558.00	12.92	2.35
0201 - MEAT OF BOVINE ANIMALS, FRESH OR CHILLED	3,522,348,707.00	11.80	3,562,210,472.00	11.99	1.14
0202 - MEAT OF BOVINE ANIMALS, FROZEN	3,403,147,222.00	11.40	2,991,576,790.00	10.07	-12.10
0402 - MILK AND CREAM, CONCENTRATED OR CONTAINING ADDED SWEETENING	1,806,706,807.00	6.05	2,168,462,321.00	7.30	20.03
0406 - CHEESE AND CURD	1,571,465,416.00	5.27	1,611,564,734.00	5.43	2.56
0303 - FISH, FROZEN, EXCLUDING FISH FILLETS AND OTHER FISH MEAT WITHOUT BONES; FISH LIVERS AND ROES, FROZEN	1,880,127,695.00	6.30	1,480,333,984.00	4.99	-21.27
0206 - EDIBLE OFFAL OF BOVINE ANIMALS, SWINE, SHEEP, GOATS, HORSES ETC., FRESH, CHILLED OR FROZEN	1,415,673,313.00	4.75	1,456,647,852.00	4.91	2.90
0304 - FISH FILLETS AND OTHER FISH MEAT (WHETHER OR NOT MINCED), FRESH, CHILLED OR FROZEN	1,376,403,720.00	4.61	1,205,187,224.00	4.06	-12.44
0306 - CRUSTACEANS, LIVE FRESH CHILLED FROZEN DRIED ETC; SMOKED; IN SHELL, COOKED BY STEAM OR BOILING WATER; FLOURS, MEALS & PELLETS FOR HUMAN CONSUMPTION	938,723,536.00	3.15	754,968,953.00	2.55	-19.58
Total	29,864,713,884.00	100.00	29,714,024,645.00	100.00	-0.51

COVID-19 Impact

The data shows a pandemic-related dip in exports of these foodstuffs coming a little later in 2020 and being less pronounced than in other categories of commodities (as will be seen on subsequent pages). In fact, for this category of products (as with other agricultural exports), several factors lifted sales, even as the pandemic forced U.S. meat processors to cut back production.

With African swine fever slowing their own domestic producers, China stepped up to become the biggest market for U.S. pork exports. A reduction in Japan's tariff on U.S. pork has also helped boost exports to that market.

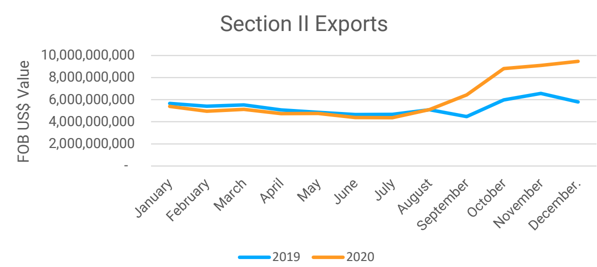
Section II

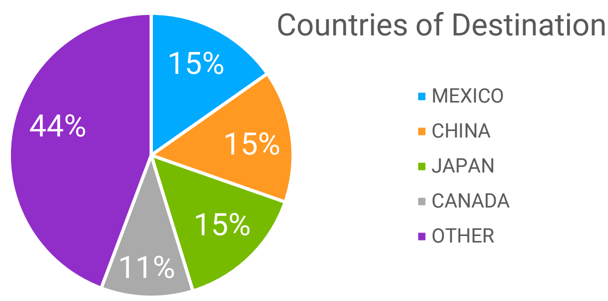
Vegetable Products

Overview & Digest

Section II exports saw year-over-year growth stall through July, only to begin climbing (0.4%) in August, and increase substantially the rest of the year to finish with a healthy gain just shy of 14% (one of only three sections to post an increase). December's exports led monthly year-over-year increases to a peak of 63.3%.

- Among the top 10 Section II exports, grain sorghum ([HS1007] led 2020 y-o-y growth with a 148% increase in export value.
- Nuts, others [HS0802] led declines, falling 7.5%. Drilling down in the data. We found that pistachios [HS080251], with a drop of 19.4% accounted for much of the loss in this category.
- Section II's top product – and the No. 1 U.S. agricultural export overall – soybeans [HS1201], gained 38% in 2020, enough to set a record.





Product HS (4)	2019		2020		Percentile Change
	FOB Value (USD)	%	FOB Value (USD)	%	
1201 - SOYBEANS, WHETHER OR NOT BROKEN	18,724,338,932.00	29.38	25,851,456,350.00	35.59	38.07
1005 - CORN (MAIZE)	8,013,010,213.00	12.58	9,575,253,817.00	13.18	19.50
0802 - NUTS OTHERS, FRESH OR DRIED	8,481,413,428.00	13.31	7,845,288,023.00	10.80	-7.51
1001 - WHEAT AND MESLIN	6,265,916,263.00	9.83	6,318,111,098.00	8.70	0.84
1006 - RICE	1,877,045,451.00	2.95	1,888,783,288.00	2.60	0.63
1214 - RUTABAGAS (SWEDES), MANGOLDS, HAY, ALFALFA (LUCERNE), CLOVER, FORAGE KALE, LUPINES AND SIMILAR FORAGE PRODUCTS, WHETHER OR NOT IN THE FORM OF PELLETS	1,548,330,222.00	2.43	1,598,286,968.00	2.20	3.23
1007 - GRAIN SORGHUM	559,680,200.00	0.88	1,392,917,172.00	1.92	148.88
0810 - FRUIT OTHERS, FRESH	1,169,482,439.00	1.84	1,192,446,239.00	1.65	1.97
1208 - FLOURS AND MEALS OF OIL SEEDS OR OLEAGINOUS FRUITS, OTHER THAN THOSE OF MUSTARD	969,478,508.00	1.53	1,089,550,093.00	1.50	12.39
0806 - GRAPES, FRESH OR DRIED	1,113,544,548.00	1.75	1,048,913,824.00	1.45	-5.81
Total	63,744,526,271.00	100.00	72,655,167,048.00	100.00	13.98

COVID-19 Impact

As with Section I's animal products, global demand for vegetable staples was strong enough to counter any downward pressure from the pandemic and boost exports to record levels. Increased shipments of soybeans and corn [HS100590] to China were primary drivers.

According to the USDA, China accounted for 55% of total soybean exports in a return to trade levels not seen since the U.S. and China began exchanging retaliatory tariffs.

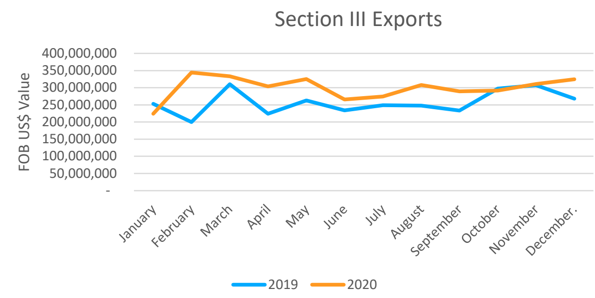
Section III

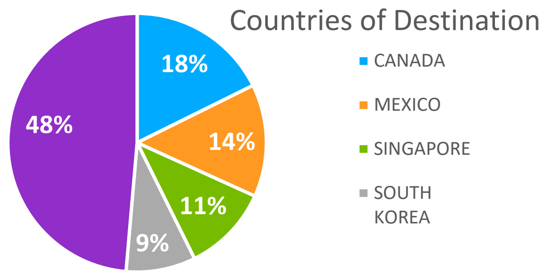
Animal or Vegetable Fats and Oils and Their Cleavage Products; Prepared Edible Fats; Animal or Vegetable Waxes

Overview & Digest

After sliding 11.4% in January, Section III exports surged 72.3% in February. With the exception of flattened growth in October and November, Section III exports beat the previous year's sales performance month by month in 2020. At year-end, fats and oils led gains across all U.S. exports with a 16.4% increase.

- The star in this category was animal or vegetable fats chemically modified [HS1518], posting a year-over-year gain of 86.9%. Note that these inedible fats and oils, including processed linseed oil, tung oil, and castor oil, are used in lubricants, paints, cosmetics, pharmaceuticals, and other industrial purposes.
- Among the top 10 products, fats and oils derived from fish or marine animals [HS1504] posted the biggest loss with a 16.1% decline.
- Soybean oil [HS1507] claimed the biggest share of 2020 exports, accounting for 27.4%. The lion's share, 28.4%, went to South Korea.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
1507 - SOYBEAN OIL AND ITS FRACTIONS, WHETHER OR NOT REFINED, BUT NOT CHEMICALLY MODIFIED	729,827,332.00	23.64	979,140,330.00	27.24	34.17
1515 - FIXED VEGETABLE FATS AND OILS (INCLUDING JOJOBA OIL) AND THEIR FRACTIONS, WHETHER OR NOT REFINED, BUT NOT CHEMICALLY MODIFIED	502,089,518.00	16.27	512,793,047.00	14.27	2.14
1517 - MARGARINE; EDIBLE MIXTURES OR PREPARATIONS OF ANIMAL OR VEGETABLE FATS OR OILS OR OF FRACTIONS OF DIFFERENT SPECIFIED FATS AND OILS	369,038,659.00	11.96	379,994,676.00	10.57	2.97
1502 - FATS OF BOVINE ANIMALS, SHEEP OR GOATS, OTHER THAN THOSE OF HEADING 1503	309,412,297.00	10.03	317,883,978.00	8.85	2.74
1501 - PIG FAT (INCLUDING LARD) AND POULTRY FAT, OTHER THAN OF HEADING 0209 OR 1503	223,275,463.00	7.24	296,572,734.00	8.25	32.83
1518 - ANIMAL OR VEGETABLE FATS, OILS AND THEIR FRACTIONS, BOILED, OXIDIZED, ETC.; INEDIBLE MIXES OR PREPARATIONS OF ANIMAL OR VEGETABLE FATS AND OILS, OTHERS	137,513,725.00	4.46	256,947,308.00	7.15	86.86
1504 - FATS AND OILS AND THEIR FRACTIONS, OF FISH OR MARINE MAMMALS, WHETHER OR NOT REFINED, BUT NOT CHEMICALLY MODIFIED	193,721,962.00	6.28	162,476,920.00	4.52	-16.13
1512 - SUNFLOWER-SEED, SAFFLOWER OR COTTONSEED OIL, AND THEIR FRACTIONS, WHETHER OR NOT REFINED, BUT NOT CHEMICALLY MODIFIED	130,029,420.00	4.22	115,723,713.00	3.22	-11.01
1514 - RAPESEED, COLZA OR MUSTARD OIL AND THEIR FRACTIONS, WHETHER OR NOT REFINED, BUT NOT CHEMICALLY MODIFIED	93,685,667.00	3.04	114,875,874.00	3.20	22.62
1511 - PALM OIL AND ITS FRACTIONS, WHETHER OR NOT REFINED, BUT NOT CHEMICALLY MODIFIED	87,157,147.00	2.83	98,499,490.00	2.74	13.02
Total	3,087,494,347.00	100.00	3,595,145,774.00	100.00	16.45

COVID-19 Impact

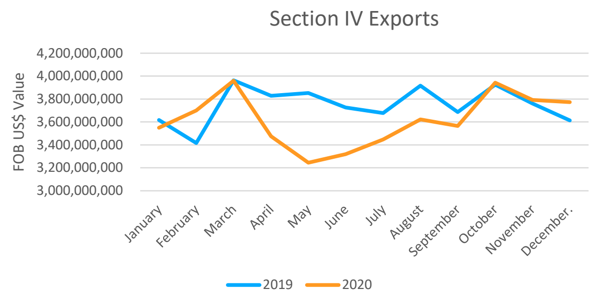
The trade data indicates that February's 72.3% surge in U.S. exports of fats and oils was followed by a more modest gain of 7.5% in March, the month that Covid-19 lockdowns began to throttle U.S. trade.

In light of economic constraints resulting from the pandemic, market watchers have knocked a percentage point or so off previous forecasts of growth in the sector in the near future, while raising projections through 2030 as the industry rebounds.

Section IV

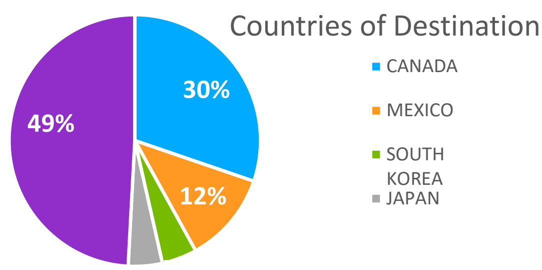
Prepared Foodstuffs; Beverages, Spirits, and Vinegar; Tobacco and Manufactured Tobacco Substitutes

Overview & Digest



U.S. exports of this Section's prepared foodstuffs, beverages and tobacco posted the best growth of 2020 in February, with an 8.3% increase in value compared with the same period a year earlier. Negative growth began in March and bottomed out at 15.8% in May. Overall, 2020 closed out with a 3.5% year-over-year decline in Section IV exports

- Food preparations [HS2106], perennially among the top 25 U.S. agricultural exports, managed to hold the y-o-y decline to 0.8%
- Among the top 10 Section IV exports, chocolate and other food preparations containing cocoa [HS1806] recorded the biggest decline at negative 16.1%
- Soybean oilcake [HS2304] exports rose 6.9%. Top destinations for this product in 2020 were Mexico (17.9%), Colombia (12.8%) and Canada (10.6%). Preparations for animal feed (including pet food) [HS2304] also posted a gain of just over 6%, with most going to Canada and Mexico.



Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
2106 - FOOD PREPARATIONS OTHERS	6,262,750,457.00	13.93	6,211,975,344.00	14.32	-0.82
2304 - SOYBEAN OILCAKE AND OTHER SOLID RESIDUES RESULTING FROM THE EXTRACTION OF SOY BEAN OIL, WHETHER OR NOT GROUND OR IN THE FORM OF PELLETS	3,442,360,020.00	7.66	3,680,203,131.00	8.49	6.91
2309 - PREPARATIONS OF A KIND USED IN ANIMAL FEEDING	3,162,738,063.00	7.04	3,355,154,579.00	7.74	6.09
2303 - RESIDUES OF STARCH MANUFACTURE AND OTHER RESIDUES AND WASTE OF SUGAR MANUFACTURE, BREWING OR DISTILLING DREGS AND WASTE, WHETHER OR NOT IN PELLETS	2,920,822,576.00	6.50	2,980,644,141.00	6.87	2.05
2207 - ETHYL ALCOHOL, UNDENATURED, OF AN ALCOHOLIC STRENGTH BY VOLUME OF 80% VOL. OR HIGHER; ETHYL ALCOHOL AND OTHER SPIRITS, DENATURED, OF ANY STRENGTH	2,474,323,923.00	5.51	2,423,751,229.00	5.59	-2.05
1905 - BREAD, PASTRY, CAKES, BISUITS AND OTHER BAKERS' WARES; COMMUNION WAFERS, EMPTY CAPSULES FOR MEDICINE ETC., SEALING WAFERS, RICE PAPER ETC.	2,100,326,392.00	4.67	2,050,004,674.00	4.73	-2.40
2208 - ETHYL ALCOHOL, UNDENATURED, OF AN ALCOHOLIC STRENGTH BY VOLUME OF UNDER 80% VOL.; SPIRITS, LIQUEURS AND OTHER SPIRITUOUS BEVERAGES	2,033,245,153.00	4.52	1,932,509,323.00	4.46	-4.96
2103 - SAUCES AND PREPARATIONS THEREFOR; MIXED CONDIMENTS AND MIXED SEASONINGS; MUSTARD FLOUR AND MEAL AND PREPARED MUSTARD	1,774,525,300.00	3.95	1,693,579,873.00	3.91	-4.57
2008 - FRUIT, NUTS AND OTHER EDIBLE PARTS OF PLANTS, OTHERWISE PREPARED OR PRESERVED, WHETHER OR NOT CONTAINING ADDED SWEETENING OR SPIRIT, OTHERS	1,650,990,335.00	3.67	1,559,731,721.00	3.60	-5.53
1806 - CHOCOLATE AND OTHER FOOD PREPARATIONS CONTAINING COCOA	1,656,501,108.00	3.69	1,390,100,841.00	3.21	-16.09
Total	44,986,253,980.00	100.00	43,391,981,419.00	100.00	-3.55

COVID-19 Impact

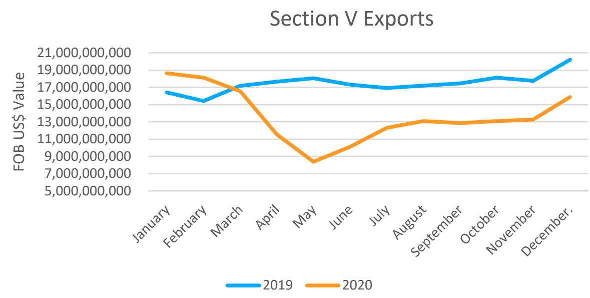
The relatively limited impact of the pandemic on prepared foods exports is, in large part, due to the stability of U.S. trade partnerships with top markets in North and South America. In addition, sales of these products are generally through grocery stores and retail outlets for home consumption, rather than to restaurants which were subject to extensive shutdowns (and remain so in some jurisdictions).

The pandemic had an indirect effect on U.S. exports of fuel ethanol [HS2207] to Brazil, down 41% in 2020, due to Brazil's COVID-19 impacted fuel market and a 40% depreciation in Brazil's currency. Sales to top customer Canada held steady (up 3.4%) as U.S. suppliers backfilled Canada's increased sales to Europe.

Section V

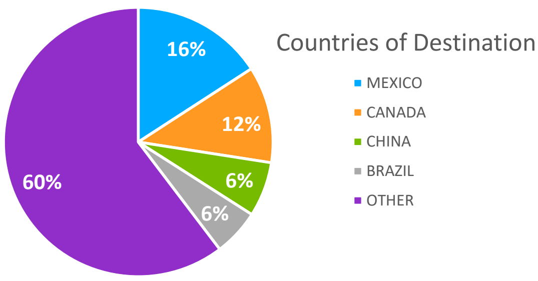
Mineral Products

Overview & Digest



Exports of Section V mineral products, dominated by petroleum, were running well above the preceding year in January (up 13.6%) and February (17.5%). Growth reversed to decline in March with a modest loss of 3.6%. This trend would continue throughout the year and year-end 2020 Section V exports were 21.9% lower than 2019.

- Exports of mineral fuels [HS27], including petroleum, coal, and shale oil, were uniformly depressed across markets – with the exception of a 163% surge in shipments to China.
- Petroleum gases were among the few gainers in 2020, rising 9.25% over the previous year's result.
- The biggest loss among Section V's top exports was recorded by zinc [2608], down 39.9% at year-end, a result due in part to a surplus supply in the global market.



Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
2710 - PETROLEUM OILS& OILS FROM BITUMINOUS MINS (OTHER THAN CRUDE)& PRODUCTS THEREFROM, OTHERS, CONTAINING 70% (BY WEIGHT) OR MORE OF THESE OILS; WASTE OILS	87,507,950,669.00	41.73	60,709,450,364.00	37.06	-30.63
2709 - PETROLEUM OILS AND OILS FROM BITUMINOUS MINERALS, CRUDE	65,323,191,031.00	31.15	50,285,962,130.00	30.70	-23.02
2711 - PETROLEUM GASES AND OTHER GASEOUS HYDROCARBONS	30,524,255,104.00	14.56	33,344,747,248.00	20.36	9.25
2701 - COAL; BRIQUETTES, OVOIDS AND SIMILAR SOLID FUELS MANUFACTURED FROM COAL	9,818,834,465.00	4.69	6,092,861,428.00	3.72	-37.95
2713 - PETROLEUM COKE, PETROLEUM BITUMEN AND RESIDUES OF PETROLEUM OILS OR OF OILS OBTAINED FROM BITUMINOUS MINERALS	4,290,809,882.00	2.05	2,959,211,789.00	1.81	-31.04
2603 - COPPER ORES AND CONCENTRATES	2,337,862,230.00	1.12	2,348,009,583.00	1.44	0.44
2613 - MOLYBDENUM ORES AND CONCENTRATES	1,088,754,256.00	0.52	941,832,069.00	0.58	-13.50
2608 - ZINC ORES AND CONCENTRATES	1,447,365,409.00	0.70	869,841,343.00	0.54	-39.91
2601 - IRON ORES AND CONCENTRATES, INCLUDING ROASTED IRON PYRITES	988,895,923.00	0.48	846,270,819.00	0.52	-14.43
2707 - OILS AND OTHER PRODUCTS OF THE DISTILLATION OF HIGH TEMPERATURE COAL TAR; SIMILAR PRODUCTS IN WHICH THE WEIGHT OF AROMATIC CONSTITUENTS PREDOMINATE	941,083,202.00	0.45	710,380,119.00	0.44	-24.52
Total	209,712,530,881.00	100.00	163,824,114,090.00	100.00	-21.89

COVID-19 Impact

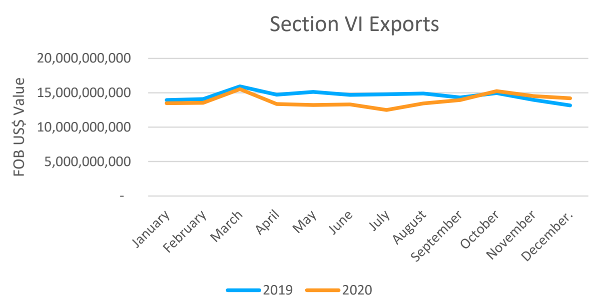
The pandemic-driven restrictions on travel and shutdowns in manufacturing slashed energy consumption around the world. The U.S. Energy Information Administration reports that as of April 17, 2021 U.S. consumption of jet fuel had declined 62% and motor gasoline supplies were down 54% from pre-shutdown averages. The abrupt drop in demand in March 2020 caused petroleum prices to collapse (and helped create the April-May dip in Section V export values).

Producers responded by cutting output. As demand has returned, prices have started to climb. Continued uncertainties about the pace of post-pandemic recovery cloud the future of Section V exports which accounted for 12.14% of all U.S. exports in 2019 and 10.83% in 2020.

Section VI

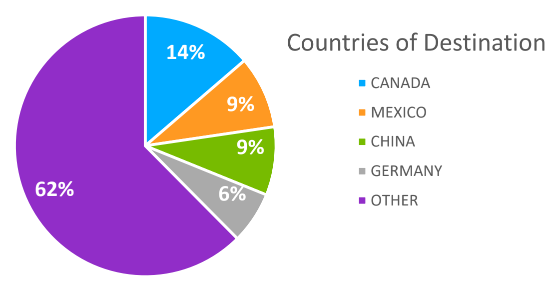
Products of the Chemical or Allied Industries

Overview & Digest



U.S. exports of Section VI products were already running 3% behind the previous year's when the pandemic further depressed the value of this trade from April (down 12.6%) to July (off 15.3%) through September (-2.5%). Growth returned in the last three months of the year, reaching an encouraging year-over-year gain of 7.9% in December. Still, the total value of exports in 2020 was 4.7% lower than in 2019.

- Among the top 10, diagnostic reagents [HS3822] had the best year, with exports increasing 21.5% in value.
- Human blood and related antisera, vaccines and other immunological products [HS3002], ranked first among the Section's exports products commanding a 15.7% share, recorded a lackluster gain of 0.88%.
- Reaction initiators [HS3815] and acyclic hydrocarbons [HS2901] recorded the steepest declines – negative 18.46% and 18.55%, respectively.



Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
3002 - HUMAN AND ANIMAL BLOOD, PREPARED; ANTISERA OTHER BLOOD FRCTNS IMMUNOLOGICAL PROD; VACCINES, TXNS, CULTURES OF MICRO-ORGANISMS (EXC YEASTS) & LIKE PROD	25,863,963,793.00	14.81	26,090,950,690.00	15.68	0.88
3004 - MEDICAMENTS (EXCEPT VACCINES ETC., BANDAGES OR PHARMACEUTICALS), OF PRODUCTS (MIXED OR NOT) FOR THERAPEUTIC ETC. USES, IN DOSAGE OR RETAIL SALE FORM	22,860,432,095.00	13.09	23,081,429,898.00	13.88	0.97
3822 - COMPOSITE DIAGNOSTIC OR LABORATORY REAGENTS, OTHER THAN PHARMACEUTICAL PREPARATIONS OF HEADING 3002 OR 3006	7,574,044,627.00	4.34	9,203,143,788.00	5.54	21.51
3304 - BEAUTY OR MAKE-UP AND SKIN-CARE PREPARATIONS (OTHER THAN MEDICAMENTS), INCLUDING SUNSCREENS ETC.; MANICURE OR PEDICURE PREPARATIONS	6,108,252,477.00	3.50	5,081,837,098.00	3.06	-16.81
3824 - BINDERS MADE FOR FOUNDRY MOLDS OR CORES; CHEMICAL PRODUCTS AND PREPARATIONS, INCLUDING RESIDUAL PRODUCTS, OF THE CHEMICAL OR ALLIED INDUSTRIES, OTHERS	5,042,673,883.00	2.89	5,026,810,837.00	3.03	-0.32
3808 - INSECTICIDES, RODENTICIDES, FUNGICIDES, HERBICIDES, ANTISPROUTING PRODUCTS ETC., PACKAGED FOR RETAIL SALE OR AS PREPARATIONS OR ARTICLES	4,133,919,097.00	2.37	4,449,099,795.00	2.68	7.63
3815 - REACTION INITIATORS, REACTION ACCELERATORS AND CATALYTIC PREPARATIONS OTHERS	5,201,486,291.00	2.98	4,241,681,793.00	2.55	-18.46
3402 - ORGANIC SURFACE-ACTIVE AGENTS (OTHER THAN SOAP); SURFACE-ACTIVE, WASHING, AND CLEANING PREPARATIONS, WHETHER OR NOT CONTAINING SOAP, OTHERS	3,338,183,265.00	1.92	3,526,400,586.00	2.12	5.64
2901 - ACYCLIC HYDROCARBONS	4,122,594,332.00	2.37	3,358,250,748.00	2.02	-18.55
2905 - ACYCLIC ALCOHOLS AND THEIR HALOGENATED, SULFONATED, NITRATED OR NITROSATED DERIVATIVES	2,987,832,292.00	1.72	2,951,847,886.00	1.78	-1.21
Total	174,643,896,016.00	100.00	166,411,320,033.00	100.00	-4.72

COVID-19 Impact

The pandemic's disruption of supply chains certainly hampered last year's chemicals export trade, which remained below 2019 levels until the fourth quarter. More significantly, the urgent need to meet demand for medical supplies, therapies, diagnostic tests and, ultimately, vaccines effective in detecting, treating and preventing COVID-19 resulted in significant reallocation of resources.

For example, a drill-down to the 6-digit HS level data on immunological products of HS3002, reveals that exports of vaccines [HS 3002220] as well as products for retail sale [HS300215], veterinary practice [HS300230], and malarial testing [HS300211] declined. In contrast, exports of blood prepared for therapeutic uses [HS300290] and mixed immunological products NOT for retail sale [HS300214] climbed.

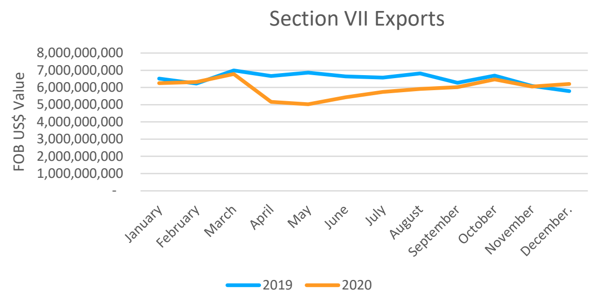
Section VII

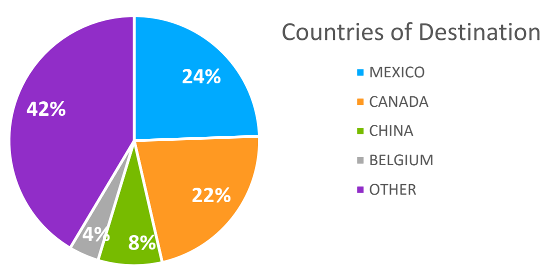
Plastics and Articles Thereof, Rubber and Articles Thereof

Overview & Digest

U.S. plastics exports began the year with negative growth of 4%. February saw a modest gain of 1.6%. The pandemic dip started in March with a 2.9% loss, bottomed out in May at negative 26.7%, then began to recover, although year-over-year losses remained at double-digit percentages until September. While the year closed with a total loss of 8.6%, a December rally – 7.2% positive growth – signaled the start of a rebound.

- Exports of Section VII's top product by trade value, polyethylene [HS3901], slipped by less than 1% in 2020 from 2019's peak level, a relative success story in the pandemic-era market environment.
- New pneumatic tires of rubber [HS4011] posted the biggest y-o-y decline at negative 20.1%.
- Exports of other plastics in primary forms took a hit: Polyvinyl chloride (PVC) [3904] exports dropped 14% and propylene [3902] lost 11%.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
3901 - POLYMERS OF ETHYLENE, IN PRIMARY FORMS	10,965,552,016	14.04	10,859,249,848	15.22	-0.97
3926 - ARTICLES OF PLASTICS AND ARTICLES OF POLYMERS AND RESINS OF HEADINGS 3901 TO 3914, OTHERS	6,913,056,213	8.86	6,552,160,119	9.18	-5.23
3923 - ARTICLES FOR THE CONVEYANCE OR PACKING OF GOODS, OF PLASTICS; STOPPERS, LIDS, CAPS AND OTHER CLOSURES, OF PLASTICS	5,486,184,333	7.03	5,287,174,220	7.41	-3.63
3907 - POLYACETALS, OTHER POLYETHERS AND EPOXIDE RESINS, IN PRIMARY FORMS; POLYCARBONATES, ALKYDS, POLYALLYL ESTERS AND OTHER POLYESTERS, IN PRIMARY FORMS	5,607,794,704	7.18	5,212,160,792	7.31	-7.06
3920 - PLATES, SHEETS, FILM, FOIL AND STRIP, EXCEPT SELF-ADHESIVE, OF PLASTICS, NON-CELLULAR, NOT REINFORCED, LAMINATED ETC. OR COMBINED WITH OTHER MATERIALS	5,171,791,985	6.63	4,969,331,278	6.97	-3.92
4011 - NEW PNEUMATIC TIRES, OF RUBBER	4,974,754,637	6.37	3,974,148,935	5.57	-20.12
3904 - POLYMERS OF VINYL CHLORIDE OR OF OTHER HALOGENATED OLEFINS, IN PRIMARY FORMS	3,718,167,295	4.77	3,196,313,584	4.48	-14.04
3902 - POLYMERS OF PROPYLENE OR OF OTHER OLEFINS, IN PRIMARY FORMS	3,561,282,570	4.56	3,161,577,121	4.43	-11.23
3917 - TUBES, PIPES AND HOSES, AND FITTINGS THEREFOR (INCLUDING JOINTS, ELBOWS AND FLANGES), OF PLASTICS	2,995,079,051	3.84	2,724,223,743	3.82	-9.05
3921 - PLATES, SHEETS, FILM, FOIL AND STRIP OTHERS, OF PLASTICS	2,978,381,973	3.82	2,695,688,928	3.78	-9.50
Total	78,111,015,709	100.00	71,380,932,342	100.00	-8.62

COVID-19 Impact

The chemical industry was among those identified as Essential Critical Infrastructure by the Department of Homeland Security, enabling producers to continue normal operations. Much of the decline in chemical exports during the year of pandemic is attributable to depressed demand and re-allocation of resources to meet domestic needs.

According to the American Chemistry Council, plastic production actually increased in 2020 – and benefited from public perceptions that plastic gloves, masks, and single-use bags helped contain COVID-19's spread.

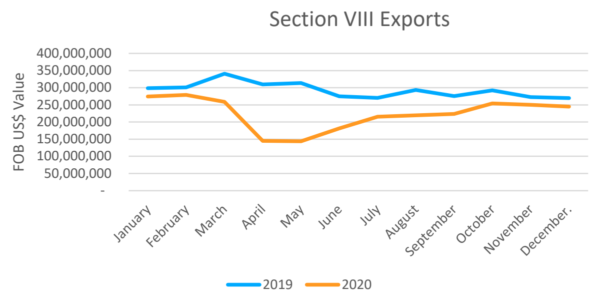
Section VIII

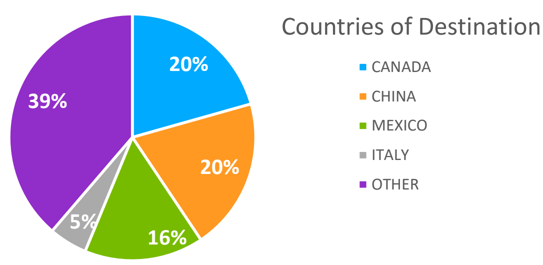
Raw Hides and Skins, Leather, Furskins and Articles Thereof; Saddlery and Harness; Travel Goods, Handbags and Similar Containers; Articles of Animal Gut (Other Than Silkworm Gut)

Overview & Digest

Last year was not a good one for cross-border sales of Section VIII products, which range from rawhides and skins, to leathers, to leather goods including luggage and handbags. The Spring 2020 dip in exports was especially steep – the fall of trade in May was 54.1% lower than the same month a year earlier. But even the best month, February, saw exports down 7.2% year-over-year.

- The top-value export in this category, travel goods [HS4202], suffered a 23.5% y-o-y decline in 2020.
- Among the top 10 Section VIII export goods, leather apparel and accessories [HS4203] posted the biggest loss, falling 30.3%.
- Countering the downward trend, raw furskins [HS4301] exports gained 5.2% in 2020. Apparel and accessories of furskin [HS4303] posted an impressive growth of 48.5%.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
4202 - TRAVEL GOODS, VANITY CASES, BINOCULAR AND CAMERA CASES, HANDBAGS, WALLETS, CUTLERY CASES AND SIMILAR CONTAINERS, OF VARIOUS SPECIFIED MATERIALS	1,285,553,941	36.62	983,688,328	36.56	-23.49
4101 - RAW HIDES AND SKINS OF BOVINE OR EQUINE ANIMALS (FRESH OR PRESERVED, BUT NOT TANNED OR FURTHER PREPARED), WHETHER OR NOT DEHAIRED OR SPLIT	765,165,253	21.80	579,735,868	21.55	-24.24
4104 - TANNED OR CRUST HIDES/SKINS OF BOVINE (INC. BUFFALO) OR EQUINE ANIMALS, WITHOUT HAIR ON WHETHER/NOT SPLIT, NT FURT PREPED, NES	542,177,674	15.45	381,144,530	14.17	-29.71
4107 - LEATHER FURTHER PREPED AFTER TANNING/CRUSTING, INCD PARCHMENT-DRESSED LTHR OF BOVINE/EQUINE ANIMALS, OTHERS, WITHOUT HAIR ON, WHETHER/NOT SPLIT,NES	200,285,952	5.71	144,368,085	5.37	-27.92
4103 - RAW HIDES AND SKINS OTHERS (FRESH OR PRESERVED, BUT NOT TANNED OR FURTHER PREPARED), WHETHER OR NOT DEHAIRED OR SPLIT	165,401,156	4.72	136,172,688	5.07	-17.68
4203 - ARTICLES OF APPAREL AND CLOTHING ACCESSORIES, OF LEATHER OR COMPOSITION LEATHER	182,103,039	5.19	126,909,276	4.72	-30.31
4301 - RAW FURSKINS OTHERS (OTHER THAN RAW HIDES AND SKINS USUALLY USED FOR LEATHER), INCLUDING HEADS, TAILS AND PIECES OR CUTTINGS SUITABLE FOR FURRIERS' USE	113,146,491	3.23	118,964,446	4.43	5.15
4205 - ARTICLES OF LEATHER OR COMPOSITION LEATHER, OTHERS	139,839,442	3.99	100,998,888	3.76	-27.78
4201 - SADDLERY AND HARNESS FOR ANY ANIMAL (INCLUDING TRACES, LEADS, KNEE PADS, MUZZLES, SADDLE CLOTHS, SADDLE BAGS, DOG COATS AND THE LIKE), OF ANY MATERIAL	56,442,000	1.61	55,866,574	2.08	-1.02
4303 - ARTICLES OF APPAREL, CLOTHING ACCESSORIES AND OTHER ARTICLES OF FURSKIN	17,797,195	0.51	26,420,272	0.99	48.46
Total	3,511,320,921	100.00	2,691,005,077	100.00	-23.37

COVID-19 Impact

The rawhide market has taken a beating in recent years. Ironically, COVID-19 lockdowns gave a boost to demand as home-bound consumers wishing to upgrade their furnishings opted for leather upholstery.

Automakers scrambling to catch up with unexpectedly high demand for new cars in the pandemic era are also ordering leather. On the downside, remote workers and their shift to comfy at-home attire has dampened demand for leather footwear.

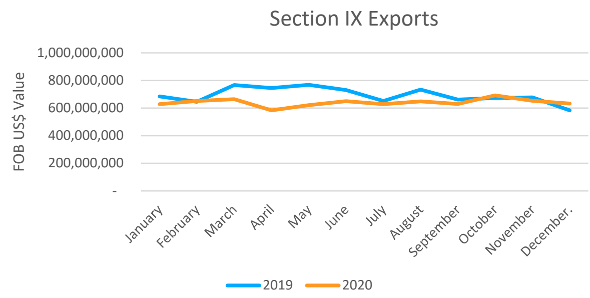
Section IX

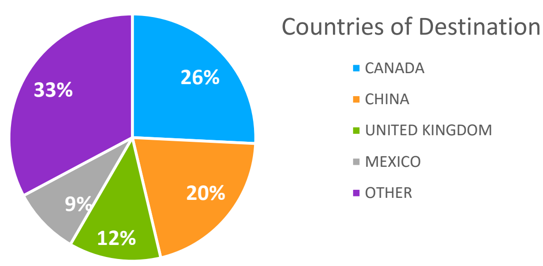
Wood and Articles of Wood; Wood Charcoal; Cork and Articles of Cork; Manufacturers of Straw,of Esparto or of Other Plaiting Materials; Basketware and Wickerwork

Overview & Digest

Lumber predominates U.S. exports of Section IX commodities, which saw flat to negative growth year-over-year for 9 out of 12 months last year. A modest gain of 0.9% in February was cancelled by a 13.4% drop in February. The steepest monthly decline – negative 21.7% – occurred in April. Only December recorded an appreciable gain over 2019 of 8.2%. The Section closed out the year in exports down 7.7% overall.

- Many of the raw or semi-finished materials, such as the top valued export, wood sawn or chipped, sliced or peel [HS4407] managed to keep the year's declines to single-digit percentages – in this case, 8.6%
- Tongued, grooved or molded wood [HS4409] posted a year-over-year decline of 31.5%, the steepest loss among the top 10.
- Particle board [HS4410] led the section's y-o-y gains with a modest 2.5% increase.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
4407 - WOOD SAWN OR CHIPPED LENGTHWISE, SLICED OR PEELED, MORE THAN 6 MM (.236 IN.) THICK	2,804,049,954	33.70	2,563,083,056	33.37	-8.60
4403 - WOOD IN THE ROUGH, WHETHER OR NOT STRIPPED OF BARK OR SAPWOOD, OR ROUGHLY SQUARED	1,675,994,228	20.15	1,619,289,745	21.09	-3.39
4401 - FUEL WOOD IN LOGS, FAGGOTS ETC.; WOOD IN CHIPS OR PARTICLES; SAWDUST AND WOOD SCRAP, WHETHER OR NOT AGGLOMERATED IN LOGS, BRIQUETTES OR OTHER FORMS	1,205,234,443	14.49	1,205,244,361	15.70	0.01
4418 - BUILDERS' JOINERY AND CARPENTRY OF WOOD, INCLUDING CELLULAR WOOD PANELS, ASSEMBLED PARQUET PANELS, SHINGLES AND SHAKES	399,810,494	4.81	399,945,354	5.21	0.04
4408 - VENEER SHEETS AND SHEETS FOR PLYWOOD AND OTHER WOOD SAWN LENGTHWISE, SLICED OR PEELED, NOT MORE THAN 6 MM (.236 IN.) THICK	301,824,752	3.63	278,822,049	3.63	-7.63
4412 - PLYWOOD, VENEERED PANELS AND SIMILAR LAMINATED WOOD	258,971,920	3.12	228,078,455	2.97	-11.93
4409 - WOOD, CONTINUOUSLY SHAPED (TONGUED, GROOVED, MOLDED, ETC.) ALONG ANY OF ITS EDGES OR FACES	289,962,210	3.49	198,773,272	2.59	-31.45
4411 - FIBERBOARD OF WOOD OR OTHER LIGNEOUS MATERIALS	219,726,859	2.65	197,208,582	2.57	-10.25
4416 - CASKS, BARRELS, VATS, TUBS AND OTHER COOPERS' PRODUCTS AND PARTS THEREOF, OF WOOD, INCLUDING STAVES	233,576,070	2.81	194,988,309	2.54	-16.53
4410 - PARTICLE BOARD AND SIMILAR BOARD OF WOOD OR OTHER LIGNEOUS MATERIALS	182,533,775	2.20	187,104,374	2.44	2.51
Total	8,321,345,176	100.00	7,681,201,543	100.00	-7.70

COVID-19 Impact

COVID-19 shutdown orders trimmed stocks of log and lumber in 2020; so, too, did Hurricane Laura and a season of devastating forest fires. Prospects for forest products, the third leading U.S. agricultural export sector after soybeans and corn, were bright at the start of the year: January's U.S.-China Phase One Trade Agreement had cleared the way for an estimated $4 billion in forest exports to China.

At the end of the year, Section IX exports to China topped out at $1.6 billion.

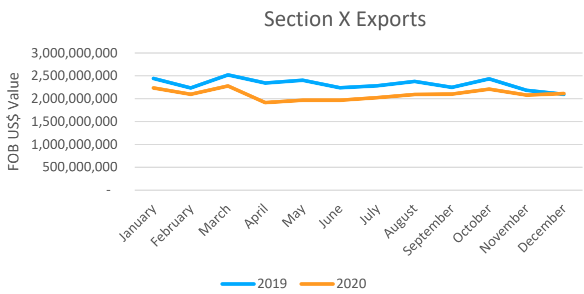
Section X

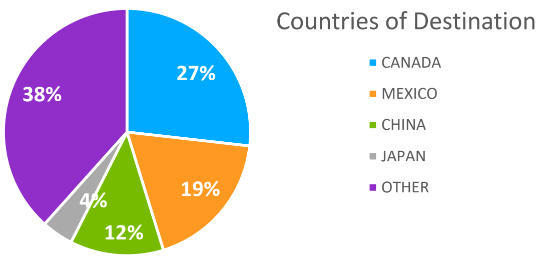
Pulp of Wood or of Other Fibrous Cellulosic Material; Waste and Scrap of Paper or Paperboard; Paper and Paperboard and Articles Thereof

Overview & Digest

Section X's pulp and paper exports in 2020 were well behind 2019's pace for most of the year. The COVID-19 Spring losses stalled at 18.2% for both April and May, before starting to edge up again. Positive growth was posted only in December: a bare 1% gain over the same month a year earlier. Exports were down 9.8% for 2020 as a whole.

- All the products ranked in the top 10 by export value, experienced declines. Chemical woodpulp, soda or sulfate [HS4703], accounting for 16.6% of the section's trade value, declined 9.9% year-over-year.
- Kraft paper [HS4804], the most used material in packaging, dropped 6.2%.
- Waste and scrap paper [HS4707], traditionally among the top U.S. exports by sheer volume, saw export value recede 9% in 2020.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
4703 - CHEMICAL WOODPULP, SODA OR SULFATE, OTHER THAN DISSOLVING GRADES	4,624,231,321	16.63	4,165,519,843	16.61	-9.92
4804 - KRAFT PAPER AND PAPERBOARD, UNCOATED, OTHERS, IN ROLLS OR SHEETS	3,351,997,841	12.06	3,142,920,163	12.54	-6.24
4707 - WASTE AND SCRAP OF PAPER OR PAPERBOARD	2,698,174,559	9.71	2,454,433,658	9.79	-9.04
4811 - PAPER, PAPERBOARD, CELLULOSE WADDING AND WEBS, COATED, IMPREGNATED, SURFACE-COLORED, SURFACE-DECORATED OR PRINTED, OTHERS, IN ROLLS OR SHEETS	2,212,492,940	7.96	1,948,195,275	7.77	-11.95
4819 - CARTONS, BAGS AND OTHER PACKING CONTAINERS OF PAPER, PAPERBOARD, CELLULOSE WADDING ETC.; OFFICE BOX FILES, LETTER TRAYS, ETC. OF PAPER OR PAPERBOARD	2,014,543,422	7.25	1,896,608,459	7.57	-5.86
4901 - PRINTED BOOKS, BROCHURES, LEAFLETS AND SIMILAR PRINTED MATTER	2,218,985,911	7.98	1,885,838,262	7.52	-15.02
4810 - PAPER AND PAPERBOARD, COATED ON ONE OR BOTH SIDES WITH KAOLIN (CHINA CLAY) OR OTHER INORGANIC SUBSTANCES (WITH NO OTHER COATING), IN ROLLS OR SHEETS	1,926,442,625	6.93	1,829,518,885	7.30	-5.04
4911 - PRINTED MATTER OTHERS, INCLUDING PRINTED PICTURES AND PHOTOGRAPHS	1,227,509,607	4.42	1,113,064,030	4.44	-9.33
4805 - PAPER AND PAPERBOARD, UNCOATED, OTHERS, IN ROLLS OR SHEETS, NOT FURTHER WORKED OR PROCESSED THAN AS SPECIFIED IN NOTE 2 TO CHAPTER 48	993,448,309	3.58	971,207,792	3.88	-2.24
4823 - PAPER, PAPERBOARD, CELLULOSE WADDING AND WEBS, CUT TO SIZE OR SHAPE OTHERS; ARTICLES OF PAPER PULP, PAPER, PAPERBOARD, CELLULOSE WADDING OR WEBS OTHERS	990,887,135	3.57	917,897,449	3.67	-7.37
Total	27,811,092,254	100.00	25,078,486,622	100.00	-9.83

COVID-19 Impact

The effects of COVID-19 related shutdowns have been uneven across the pulp and paper industry. Consider consumer tissue, in short supply and commanding historically high prices in some markets, especially in the early days of the pandemic.

In contrast, the pandemic has accelerated the decline in demand for newsprint and glossy paper, as print continues to give way to digital media.

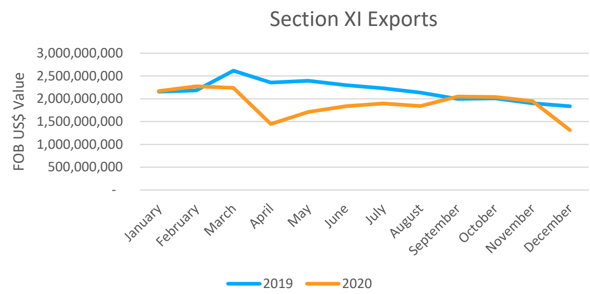
Section XI

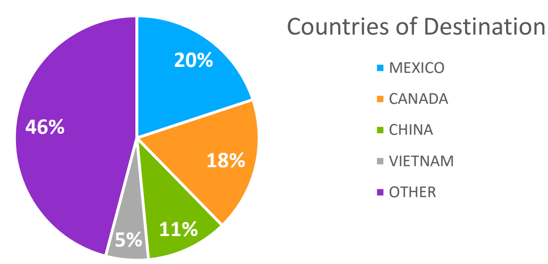
Textile and Textile Articles

Overview & Digest

Section XI covers textiles products from raw materials through to finished apparel. U.S. exports of these products increased for the first two months of 2020 then dropped 14.4% in March. This trend would continue throughout the year and y-o-y exports closed with an overall decline of 12.8%

- The top-ranked export, accounting for 26.2% of the section's export value, cotton [HS5201] posted a 2.9% decline in 2020. Cotton yarn [HS5205] fell further: 39.4%.
- Synthetic filament yarn [HS5402] also posted a significant loss of nearly 25% in export value last year.
- Running counter to the overall downward trend in Section XI exports is made-up articles of textile materials [HS6307], which posted 38.3% growth. This HS code covers disposable hospital drapes and towels and face masks – including N95 respirators – demand for which was boosted by the pandemic.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
5201 - COTTON, NOT CARDED OR COMBED	6,147,101,904	23.54	5,969,433,461	26.22	-2.90
5603 - NONWOVENS (OF TEXTILE MATERIALS), WHETHER OR NOT IMPREGNATED, COATED, COVERED OR LAMINATED	1,862,746,893	7.14	1,896,556,088	8.33	1.82
6307 - MADE-UP ARTICLES OF TEXTILE MATERIALS OTHERS	819,522,093	3.14	1,133,585,024	4.98	38.33
5903 - TEXTILE FABRICS IMPREGNATED, COATED, COVERED OR LAMINATED WITH PLASTICS, OTHER THAN TIRE CORD FABRIC	990,714,721	3.80	898,615,778	3.95	-9.30
5205 - COTTON YARN (OTHER THAN SEWING THREAD), CONTAINING 85% (BY WT.) OR MORE COTTON, NOT PUT UP FOR RETAIL SALE	1,102,268,607	4.23	667,939,142	2.94	-39.41
6309 - WORN CLOTHING AND OTHER WORN TEXTILE ARTICLES	681,493,579	2.61	663,348,259	2.92	-2.67
6109 - T-SHIRTS, SINGLETS, TANK TOPS AND SIMILAR GARMENTS, KNITTED OR CROCHETED	792,197,730	3.04	627,547,480	2.76	-20.79
5402 - SYNTHETIC FILAMENT YARN (OTHER THAN SEWING THREAD), NOT PUT UP FOR RETAIL SALE, INCLUDING SYNTHETIC MONOFILAMENTS OF LESS THAN 67 DECITEX	817,341,816	3.13	613,090,558	2.70	-24.99
5502 - ARTIFICIAL FILAMENT TOW	580,636,559	2.23	575,839,312	2.53	-0.83
5911 - TEXTILE PRODUCTS AND ARTICLES FOR SPECIFIED TECHNICAL USES, OTHERS	636,973,988	2.44	572,939,368	2.52	-10.06
Total	26,117,924,494	100.00	22,769,691,413	100.00	-12.82

COVID-19 Impact

The apparel sector was already in a tailspin when the pandemic-imposed quarantines, restricted travel, closed schools, shut down factories and sent office personnel home to work remotely. With no place to go, there was no need to dress – and retail sales evaporated.

According to the Census Bureau, in the three-month period from March through May 2020 clothing sales dropped 67%; textiles mills reported a 90% drop in orders for yarns and dialed back cotton consumption by more than 90% compared with year-ago levels.

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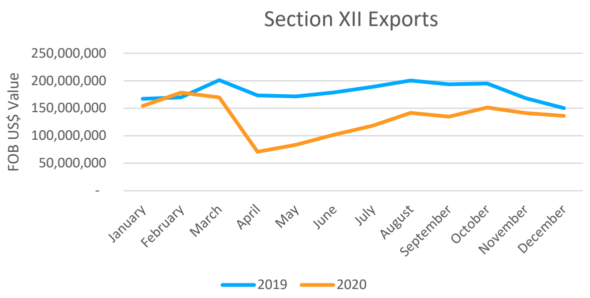
Section XII

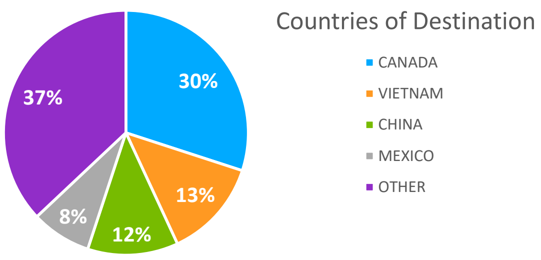
Footwear, Headgear, Umbrellas, Sun Umbrellas, Walking Sticks, Seatsticks, Whips, Riding-Crops and Parts Thereof; Prepared Feathers and Articles Made Therewith; Artificial Flowers; Articles of Human Hair

Overview & Digest

After a brief month of positive growth in export value in February of 5.2% –Section XII exports recorded double-digit percentile monthly declines throughout 2020. The steepest decline occurred in April, when exports dropped 59.2%. For the year as a whole, exports receded 26.7%.

- As the table of top-value exports makes clear, footwear predominates Section XII's top-value exports. Unfortunately, footwear also recorded some of the worst year-over-year losses.
- Exports of top-ranked footwear parts [HS6406] declined 26.8%. More than half – 54.7% in 2020 – of these U.S. exports are destined for assembly in Vietnam.
- Knitted or crocheted hats [HS6505] performed the best by sustaining the smallest decline in export value: negative 6.4%.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
6406 - PARTS OF FOOTWEAR; REMOVABLE INSOLES, HEEL CUSHIONS AND SIMILAR ARTICLES; GAITERS, LEGGINGS AND SIMILAR ARTICLES, AND PARTS THEREOF	494,175,613	22.91	361,704,899	22.88	-26.81
6403 - FOOTWEAR, WITH OUTER SOLES OF RUBBER, PLASTICS, LEATHER OR COMPOSITION LEATHER AND UPPERS OF LEATHER	418,723,614	19.42	266,583,692	16.86	-36.34
6404 - FOOTWEAR, WITH OUTER SOLES OF RUBBER, PLASTICS, LEATHER OR COMPOSITION LEATHER AND UPPERS OF TEXTILE MATERIALS	385,038,369	17.85	253,510,242	16.04	-34.16
6506 - HEADGEAR OTHERS, WHETHER OR NOT LINED OR TRIMMED	188,487,542	8.74	161,873,797	10.24	-14.12
6402 - FOOTWEAR, WITH OUTER SOLES AND UPPERS OF RUBBER OR PLASTICS, OTHERS	171,435,448	7.95	128,730,226	8.15	-24.92
6405 - FOOTWEAR OTHERS	142,909,251	6.63	107,508,716	6.80	-24.78
6505 - HATS AND OTHER HEADGEAR, KNITTED OR CROCHETED, OR MADE UP FROM LACE, FELT OR OTHER TEXTILE FABRIC, IN THE PIECE (NO STRIPS); HAIR NETS OF ANY MATERIAL	101,784,805	4.72	95,293,723	6.03	-6.38
6704 - WIGS, FALSE BEARDS, EYEBROWS AND EYELASHES, SWITCHES AND SIMILAR ARTICLES, OF HUMAN OR ANIMAL HAIR OR TEXTILE MATERIALS; ARTICLES OF HUMAN HAIR OTHERS	97,624,088	4.53	74,413,171	4.71	-23.78
6702 - ARTIFICIAL FLOWERS, FOLIAGE AND FRUIT AND PARTS THEREOF; ARTICLES MADE OF ARTIFICIAL FLOWERS, FOLIAGE OR FRUIT	34,544,034	1.61	30,377,763	1.93	-12.07
6601 - UMBRELLAS AND SUN UMBRELLAS, INCLUDING WALKING-STICK UMBRELLAS, GARDEN UMBRELLAS AND SIMILAR UMBRELLAS	31,159,219	1.45	27,065,865	1.72	-13.14
Total	2,157,248,058	100.00	1,581,411,565	100.00	-26.70

COVID-19 Impact

As with apparel, pandemic stay-at-home orders made it possible for people to dress down 24/7 and pad about in "house shoes" – slippers, sneakers and flats. As a result, sales of leather shoes plummeted.

According to the NPD Group, U.S. sales of women's high-heeled shoes dropped 45%. Whether a post-pandemic return to normal will mean a return to leather footwear is a worrisome unknown for this sector, as well as Section VIII's rawhide and leather exporters.

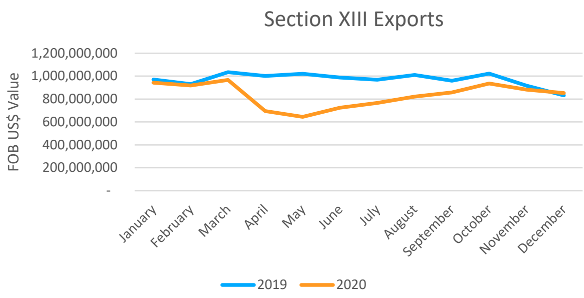
Section XIII

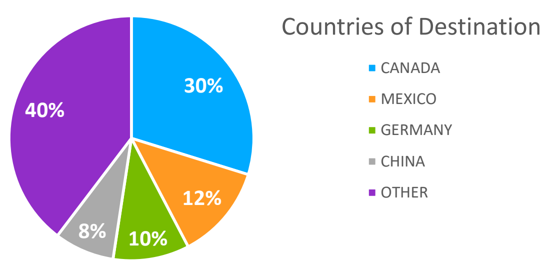
Articles of Stone, Plaster, Cement, Asbestos, Mica or Similar Materials; Ceramic Products; Glass and Glassware

Overview & Digest

Section XIII covers a mixed bag of products that unfortunately all got caught in the same downspin in U.S. 2020 exports. The decline from March through May reached its lowest point in May for these exports with a decline of 36.8%. Positive year-over-year growth – a gain of 2.5% – was achieved only in December and the overall result for the year was a negative 14.2% drop.

- Outbound trade in the leading Section XIII product by export value, glass mirrors [HS7009], dropped 14.7% in 2020. Drilling down in the data reveals that about 95% of this trade is in rearview mirrors for vehicles.
- Among the top Section XIII products, the biggest loss in value of exports was recorded for articles of stone or other mineral substances [HS6815]. Virtually all of this trade is in nonelectric articles of graphite or carbon, with Germany the top customer (12%) closely followed by China (11%) in 2020.
- Glass containers [HS7010] posted the only gain in our ranking: positive growth of 15.4%.





Product HS (4)	2019 FOB Value (USD)	2019 %	2020 FOB Value (USD)	2020 %	Percentage Change
7009 - GLASS MIRRORS, WHETHER OR NOT FRAMED, INCLUDING REARVIEW MIRRORS	1,601,645,155	13.75	1,365,642,148	13.65	-14.74
6815 - ARTICLES OF STONE OR OTHER MINERAL SUBSTANCES (INCLUDING CARBON FIBERS, ARTICLES OF CARBON FIBERS AND ARTICLES OF PEAT), OTHERS	1,566,974,108	13.45	1,152,854,644	11.53	-26.43
7019 - GLASS FIBERS (INCLUDING GLASS WOOL) AND ARTICLES THEREOF, INCLUDING YARN AND WOVEN FABRICS	1,288,508,981	11.06	1,149,543,848	11.49	-10.79
6909 - CERAMIC WARES FOR LABORATORY OR OTHER TECHNICAL USES; CERAMIC TROUGHS ETC. USED IN AGRICULTURE; CERAMIC CONTAINERS USED TO TRANSPORT OR PACK GOODS	1,009,985,777	8.67	917,307,804	9.17	-9.18
6805 - NATURAL OR ARTIFICIAL ABRASIVE POWDER OR GRAIN, ON A BASE OF TEXTILES, PAPER OR OTHER MATERIAL, WHETHER OR NOT CUT TO SHAPE, SEWN OR OTHERWISE MADE UP	547,815,078	4.71	486,863,571	4.87	-11.13
7010 - GLASS CONTAINERS USED FOR THE CONVEYANCE OR PACKING OF GOODS; GLASS PRESERVING JARS; GLASS STOPPERS, LIDS AND OTHER GLASS CLOSURES	312,355,678	2.68	360,282,669	3.61	15.35
7005 - FLOAT GLASS AND SURFACE GROUND OR POLISHED GLASS, IN SHEETS, WHETHER OR NT HAVING AN ABSORBENT, REFLECTING/NONREFLECTING LAYER, BUT NT OTHERWISE WORKD	399,004,660	3.43	334,072,382	3.34	-16.28
6806 - MINERAL WOOLS (SLAG, ROCK ETC.); EXFOLIATED VERMICULITE, EXPANDED CLAYS AND THE LIKE; MIXTURES AND ARTICLES OF INSULATING MINERAL MATERIALS OTHERS	385,118,153	3.31	321,436,302	3.22	-16.54
6807 - ARTICLES OF ASPHALT OR OF SIMILAR MATERIAL (FOR EXAMPLE, PETROLEUM BITUMEN OR COAL TAR PITCH)	354,634,272	3.05	319,549,142	3.20	-9.90
7007 - SAFETY GLASS, CONSISTING OF TOUGHENED (TEMPERED) OR LAMINATED GLASS	364,360,489	3.13	280,121,367	2.80	-23.12
Total	11,655,328,701	100.00	10,006,072,595	100.00	-14.16

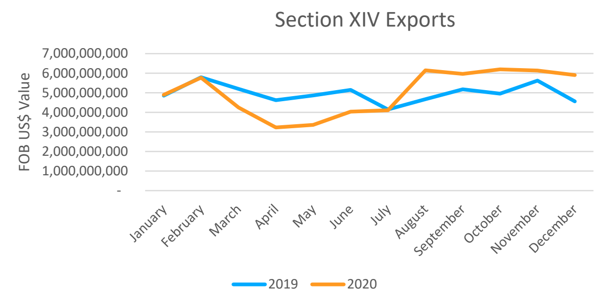
COVID-19 Impact

Demand for the diverse products of Section XIII is driven by an equally diverse range of industries, including construction, automaking, high-tech research, white goods, and advanced packaging. U.S. exports of rear-view mirrors depend on sales to automakers in Germany in Japan, which may have had to shut down production in the early months of the pandemic, or curtail production schedules due to supply chain disruptions (such as the shortage of semiconductors – see Section XVI) – but may also benefit from a pandemic-stoked rise in demand for personal transport.

Section XIV

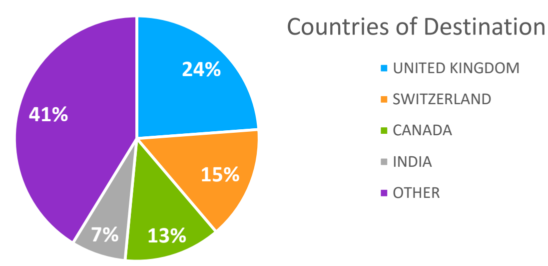
Natural or Cultured Pearls, Precious or Semiprecious Stones, Precious Metals, Metals Clad With Precious Metal, and Articles Thereof; Imitation Jewelry; Coin

Overview & Digest



The trade data reveals a COVID-19 depression in exports of Section XIV's pearls, stones and metals during the Spring of 2020, reaching its deepest point – negative 31% – in May. Compared to other sections of the HTSUS, this category rebounded quickly and decisively with a 31.6% gain in August, and enough robust growth through the end of the year with a positive, albeit modest, gain of 0.6%

- Gold [HS7108] recorded a respectable year-over-year gain in export value of 19.7%.
- Neither diamonds [HS7102] nor jewelry [HS7113] held much allure for export markets in 2020. Both declined by nearly the same margin: 41.4% and 41.96%, respectively.
- Platinum [HS7110] remained the hot metal, with exports more than doubling in value in 2020. While only increasing 13.6% in volume, the value of these exports rose 108% in 2020.



Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
7108 - GOLD (INCLUDING GOLD PLATED WITH PLATINUM), UNWROUGHT OR IN SEMIMANUFACTURED FORMS, OR IN POWDER FORM	17,173,208,199	28.81	20,561,622,698	34.30	19.74
7102 - DIAMONDS, WHETHER OR NOT WORKED, BUT NOT MOUNTED OR SET	17,735,482,861	29.76	10,388,779,338	17.33	-41.43
7110 - PLATIMUN, UNWROUGHT OR IN SEMIMANUFACTURED FORMS, OR IN POWDER FORM	4,725,699,614	7.93	9,834,087,064	16.41	108.10
7112 - WASTE AND SCRAP OF PRECIOUS METAL OR OF METAL CLAD WITH PRECIOUS METAL; OTHER WASTE AND SCRAP CONTAINING PRECIOUS METAL PRINCIPALLY USE FOR RECOVERY	5,239,460,669	8.79	7,886,167,772	13.16	50.52
7113 - ARTICLES OF JEWELRY AND PARTS THEREOF, OF PRECIOUS METAL OR OF METAL CLAD WITH PRECIOUS METAL	9,187,843,501	15.42	5,333,122,940	8.90	-41.96
7106 - SILVER (INCLUDING SILVER PLATED WITH GOLD OR PLATINUM), UNWROUGHT OR IN SEMIMANUFACTURED FORMS, OR IN POWDER FORM	1,003,538,142	1.69	1,911,240,247	3.19	90.46
7118 - COIN	957,975,443	1.61	1,300,989,021	2.17	35.81
7103 - PRECIOUS AND SEMIPRECIOUS STONES (NO DIAMONDS), NOT STRUNG, MOUNTED ETC.; UNGRADED PRECIOUS AND SEMIPRECIOUS STONES (NO DIAMONDS) STRUNG FOR TRANSPORT	2,258,171,284	3.79	1,091,458,687	1.83	-51.67
7115 - ARTICLES OF PRECIOUS METAL OR OF METAL CLAD WITH PRECIOUS METAL OTHERS	458,477,396	0.77	968,373,245	1.62	111.22
7116 - ARTICLES OF NATURAL OR CULTURED PEARLS, PRECIOUS OR SEMIPRECIOUS STONES (NATURAL, SYNTHETIC OR RECONSTRUCTED)	323,995,331	0.55	247,491,128	0.42	-23.62
Total	59,609,827,558	100.00	59,963,311,534	100.00	0.60

COVID-19 Impact

Section XIV precious metals traditionally have been highly valued for their rarity and considered as a safe haven for investors eager to protect assets. In uncertain times, such as the year of the pandemic, investors tend to flock to safe havens, bidding up their price.

This has been the case with gold, while exports of gold climbed 19.7% in value, the volume of the metal traded declined 5.06%.

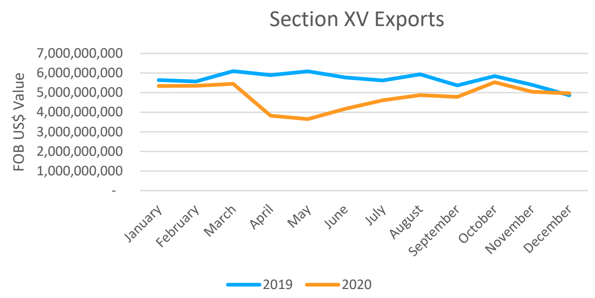
Section XV

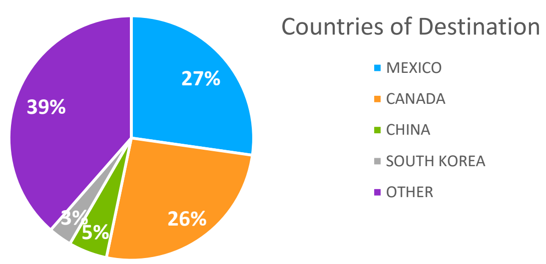
Base Metals and Articles of Base Metal

Overview & Digest

Exports of Section XV metals in 2020 lagged behind 2019's from January through November. A COVID-19 driven depression of 35.1% in April, deepened to 40.1% in May. The downward trend began to reverse with June's negative 27.6%. Exports finally returned to positive growth of 2% in December. The year ended with a cumulative, year-over-year decline of 15.4%.

- None of the top-ranked products in this section improved on their 2019 export sales last year. Aluminum waste and scrap [HS7602] recorded the smallest decline, negative 0.55%.
- Ranked first among Section XV's highest-value exports, ferrous waste and scrap [HS7204] posted a 10.5% year-over-year decline in value. A check of the underlying data indicates that while the volume of scrap declined 4.6% in 2020, the price it commanded fell 6.1%
- The sharpest drop in y-o-y export value – negative 30.7% – was sustained by titanium [HS8108].





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
7204 - FERROUS WASTE AND SCRAP; REMELTING SCRAP INGOTS OF IRON OR STEEL	5,339,840,222	7.85	4,781,698,079	8.31	-10.46
7326 - ARTICLES OF IRON OR STEEL, OTHERS	4,576,950,079	6.73	4,092,544,497	7.11	-10.59
7318 - SCREWS, BOLTS, NUTS, COACH SCREWS, SCREW HOOKS, RIVETS, COTTERS, COTTER PINS, WASHERS AND SIMILAR ARTICLES, OF IRON OR STEEL	4,396,938,196	6.46	3,622,489,339	6.29	-17.62
7404 - COPPER WASTE AND SCRAP	2,827,866,336	4.16	2,671,408,163	4.64	-5.54
8302 - MOUNTINGS AND OTHER HARDWARE FOR FURNITURE, DOORS, WINDOWS ETC.; HATRACKS, CASTORS ETC.; DOOR CLOSURES; THE FOREGOING AND PARTS THEREOF, OF BASE METAL	2,989,903,427	4.40	2,453,974,010	4.27	-17.93
7606 - ALUMINUM PLATES, SHEETS AND STRIP, OVER 0.2 MM (0.0079 IN.) THICK	3,137,998,850	4.61	2,336,723,412	4.06	-25.54
7602 - ALUMINUM WASTE AND SCRAP	2,185,468,429	3.22	2,173,630,332	3.78	-0.55
8207 - INTERCHANGEABLE TOOLS FOR HANDTOOLS (POWER-OPERATED OR NOT) OR FOR MACHINE-TOOLS, INCLUDING DIES FOR EXTRUDING METAL, AND BASE METAL PARTS THEREOF	1,993,854,253	2.93	1,600,634,230	2.78	-19.73
7307 - TUBE OR PIPE FITTINGS (INCLUDING COUPLINGS, ELBOWS AND SLEEVES), OF IRON OR STEEL	1,647,799,221	2.43	1,418,276,000	2.47	-13.93
8108 - TITANIUM AND ARTICLES THEREOF, INCLUDING WASTE AND SCRAP	1,998,442,709	2.94	1,384,421,765	2.41	-30.73
Total	68,078,843,976	100.00	57,591,476,500	100.00	-15.41

COVID-19 Impact

In contrast with the precious metals of Section XIV, Section XV's base metals are relatively abundant commodities valued for their use in industrial or commercial applications. The price of iron and steel, aluminum and copper, are closely tied to the rise and fall of end-use demand. Thus, COVID-19's suspension of construction projects – as well as the economic dislocation that stalled financing for new projects – resulted in lost orders and falling prices for steelmakers. Conversely, post-pandemic plans to boost infrastructure investments signal a recovery for this sector.

A separate issue impacts scrap metals: In recent years, China has curtailed its imports of scrap and waste of all materials. As of November 1, 2020, China lifted import restrictions on high-grade copper, aluminum and brass scrap to meet shortfalls in domestic supplies.

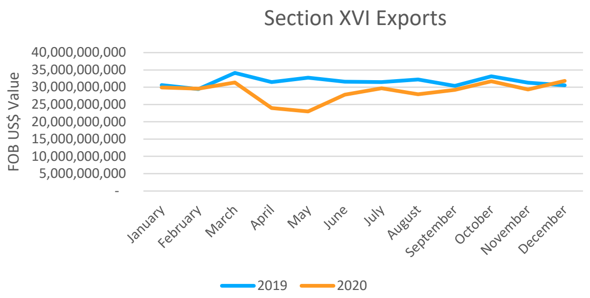
Section XVI

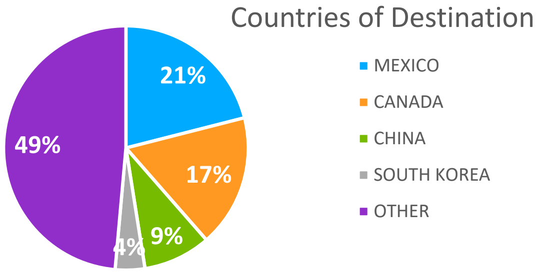
Machinery and Mechanical Appliances; Electrical Equipment; Parts Thereof; Sound Recorders and Reproducers, Television Image and Sound Recorders and Reproducers, and Parts and Accessories of Such Articles

Overview & Digest

Exports of Section XVI's machinery, electrical equipment and electronics products posted an 8.9% drop last year compared with 2019. The month-by-month gap between last year's and 2019's performance was narrower than many other sections of the HTS. The sharpest drop (29.7%) occurred in May. From September through November, the year-over-year declines stayed in the 4% to 6% range.

- Exports of top-valued integrated circuits [HS8542] gained 10.3%. Exports of machines for making semiconductors [HS8486] soared 26.9%.
- While exports of automatic data processing machines [HS8471] – a.k.a. computers – slipped 3.9%, exports of laptops and tablets [HS847130] actually posted robust growth of 15.6%.
- Among this section's top-value products, the largest y-o-y decline was in exports of parts and accessories for typewriters and other office machines [HS8473].





Product HS (4)	2019 FOB Value (USD)	2019 %	2020 FOB Value (USD)	2020 %	Percentage Change
8542 - ELECTRONIC INTEGRATED CIRCUITS AND MICROASSEMBLIES; PARTS THEREOF	40,099,507,189	10.58	44,212,664,301	12.80	10.26
8517 - ELECTRICAL APPARATUS FOR LINE TELEPHONY OR LINE TELEGRAPHY, INCLUDING SUCH APPARATUS FOR CARRIER-CURRENT OR DIGITAL LINE SYSTEMS; PARTS THEREOF	30,694,475,509	8.10	28,091,199,912	8.14	-8.49
8471 - AUTOMATIC DATA PROCESSING MACHINES AND UNITS THEREOF; MAGNETIC OR OPTICAL READERS, MACHINES FOR TRANSCRIBING AND PROCESSING CODED DATA, OTHERS	25,787,213,865	6.81	24,776,332,536	7.18	-3.93
8486 - MACHINES AND APPS USED SOLEY FOR MANUFACTURE OF SEMICONDUCTOR BOULES OR WAFERS, ETC.; MACHINES AND APPARATUS SPECIFIED IN NOTE 9(C) CH 84; PARTS	15,459,666,265	4.08	19,614,947,232	5.68	26.88
8473 - PARTS AND ACCESSORIES OTHERS FOR TYPEWRITERS AND OTHER OFFICE MACHINES OF HEADINGS 8469 TO 8472	16,683,566,537	4.41	12,893,763,521	3.74	-22.72
8481 - TAPS, COCKS, VALVES AND SIMILAR APPLIANCES FOR PIPES, BOILER SHELLS, TANKS, VATS OR THE LIKE; PARTS THEREOF	12,112,170,814	3.20	10,561,409,163	3.06	-12.81
8421 - CENTRIFUGES, INCLUDING CENTRIFUGAL DRYERS; FILTERING OR PURIFYING MACHINERY AND APPARATUS, FOR LIQUIDS OR GASES; PARTS THEREOF	10,437,577,513	2.76	9,799,017,053	2.84	-6.12
8536 - ELECTRICAL APPARATUS FOR SWITCHING OR PROTECTING ELECTRICAL CIRCUITS, OR FOR MAKING CONNECTIONS TO OR IN ELECTRICAL CIRCUITS, VOLTAGE NOT OVER 1,000 V	10,449,685,464	2.76	9,111,525,517	2.64	-12.81
8411 - TURBOJETS, TURBOPROPELLERS AND OTHER GAS TURBINES, AND PARTS THEREOF	9,380,960,146	2.48	8,506,809,959	2.47	-9.32
8544 - INSULATED WIRE, CABLE AND OTHER INSULATED ELECTRICAL CONDUCTORS; OPTICAL FIBER CABLES, OF INDIVIDUALLY SHEATHED FIBERS, WITH CONDUCTORS ETC. OR NOT	10,072,061,087	2.66	8,297,105,148	2.41	-17.63
Total	379,064,841,745	100.00	345,469,909,883	100.00	-8.87

COVID-19 Impact

Pandemic-related shutdowns of production lines no doubt contributed to declines in exports of Section XVI trade goods. But several notable shifts in trade patterns were more directly tied to the actions taken by businesses to accommodate pandemic pressures. So, for example, demand for semiconductors (and the means of making more): Automakers expected demand for their products to slacken, cut their orders to chips makers, reallocated production capacity to chips for consumer electronics.

When auto sales exceeded expectations, automakers began the scramble for a now scarce commodity. Businesses sent their staffs home to work – boosting demand for laptops and denting sales for office machines.

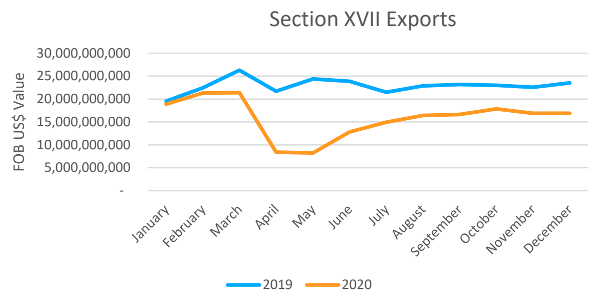
Section XVII

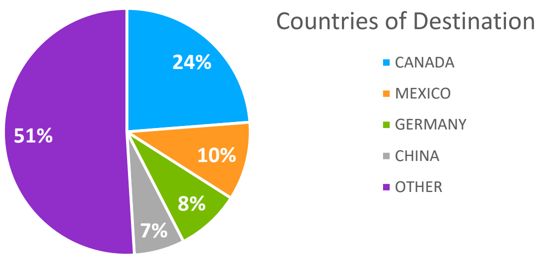
Vehicles, Aircraft, Vessels and Associated Transport Equipment

Overview & Digest

Outbound trade results for Section XVII products in 2020 were disappointing – especially since civilian aircraft and automobiles (along with Section V's petroleum products) usually lead U.S. exports. Exports fell below 2019 level in every month of 2020 and across every one of the section's top 10 products by value. The cumulative decline in value for the year was 30.6%

- Civilian aircraft and parts [HS8800], the top-value export in this section led y-o-y declines with a nearly 43% drop.
- Parts of aircraft under HS8803 lost the least ground, only declining 9.7%. Airplane and helicopter parts [HS880330] account for about 83% of this trade.
- While exports of passenger cars [HS8703] were down 18.7% in 2020, electric vehicles saw some impressive gains, leading to increased demand for EV batteries and thier components heading into 2021.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
8800 - CIVILIAN AIRCRAFT, ENGINES, AND PARTS	125,489,864,306	45.65	71,580,197,066	37.52	-42.96
8703 - MOTOR CARS AND OTHER MOTOR VEHICLES DESIGNED TO TRANSPORT PEOPLE (OTHER THAN PUBLIC-TRANSPORT TYPE), INCLUDING STATION WAGONS AND RACING CARS	56,163,760,851	20.44	45,642,595,742	23.93	-18.74
8708 - PARTS AND ACCESSORIES FOR TRACTORS, PUBLIC-TRANSPORT PASSENGER VEHICLES, MOTOR CARS, GOODS TRANSPORT MOTOR VEHICLES AND SPECIAL PURPOSE MOTOR VEHICLES	43,018,677,135	15.65	33,166,077,036	17.39	-22.91
8704 - MOTOR VEHICLES FOR THE TRANSPORT OF GOODS	17,078,975,377	6.22	14,007,617,748	7.35	-17.99
8803 - PARTS OF BALLOONS, DIRIGIBLES, GLIDERS, AIRPLANES, OTHER AIRCRAFT, SPACECRAFT AND SPACECRAFT LAUNCH VEHICLES	6,531,559,182	2.38	5,897,822,944	3.10	-9.71
8701 - TRACTORS (OTHER THAN WORKS TRUCKS OF HEADING 8709)	6,020,467,505	2.20	3,976,144,834	2.09	-33.96
8802 - AIRCRAFT, POWERED (FOR EXAMPLE, HELICOPTERS, AIRPLANES); SPACECRAFT (INCLUDING SATELLITES) AND SPACECRAFT LAUNCH VEHICLES	3,740,160,047	1.37	3,221,381,750	1.69	-13.88
8716 - TRAILERS AND SEMI-TRAILERS; OTHER VEHICLES, NOT MECHANICALLY PROPELLED; AND PARTS THEREOF	3,779,664,975	1.38	2,738,357,587	1.44	-27.56
8705 - SPECIAL PURPOSE MOTOR VEHICLES, OTHERS, INCLUDING WRECKERS, MOBILE CRANES, FIRE FIGHTING VEHICLES, CONCRETE MIXERS, MOBILE WORKSHOPS, ETC.	1,795,344,196	0.66	1,448,145,810	0.76	-19.34
8903 - YACHTS AND OTHER VESSELS FOR PLEASURE OR SPORTS; ROW BOATS AND CANOES	1,693,639,753	0.62	1,422,844,283	0.75	-15.99
Total	274,899,754,908	100.00	190,785,042,405	100.00	-30.60

COVID-19 Impact

The impact of pandemic-related travel restrictions on demand for aircraft and passenger cars would seem to be clear and direct. However, carmakers anticipating lowered consumer demand for new automobiles, scaled the flow of supplies to their cross-border assembly lines. Instead, market demand for their product climbed and, for want of piece parts to build cars – including semiconductors – car dealers have nothing to show eager buyers.

The shortage of chips, caused by misreading the impact of COVID-19, is likely to continue through 2021. Meanwhile, carmakers are rethinking "just in time" stocking strategies.

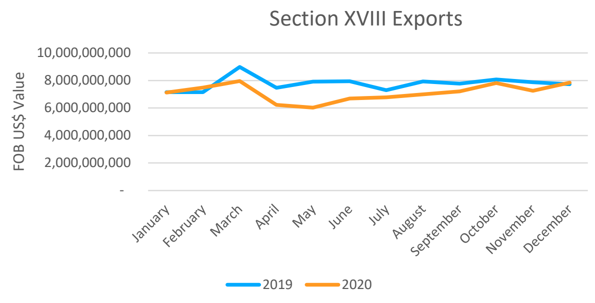
Section XVIII

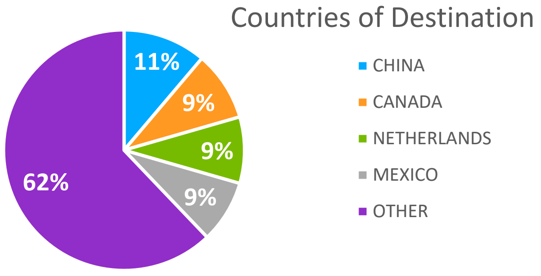
Optical, Photographic, Cinematographic, Measuring, Checking, Precision, Medical or Surgical Instruments and Apparatus; Clocks and Watches; Musical Instruments; Parts and Accessories Thereof

Overview & Digest

With the exception of 4.6% year-over-year growth in February, last year's exports of Section XVIII products trailed behind 2019 from start to finish. The steepest decline was May's 23.8% drop – a relative short fall by pandemic standards. There was a return to positive growth of 1.6% in December. The cumulative decline at year-end was 8.5%

- The section's top 10 export products all sustained y-o-y losses, with the biggest drop – negative 20.5% – posted by automatic regulators/controllers [HS0932].
- Second ranked by value, exports of instruments for physical or chemical analysis [HS9027] fared best, holding the year's decline to a fraction of a percentage point.





Product HS (4)	2019 FOB Value (USD)	2019 %	2020 FOB Value (USD)	2020 %	Percentage Change
9018 - INSTRUMENTS & APPLIANCES USED IN MEDICAL, SURGICAL, DENTAL OR VETERI	29,730,848,546	31.89	28,022,804,758	32.84	-5.75
9027 - INSTRUMENTS & APPARATUS FOR PHYSICAL OR CHEMICAL ANALYSIS, INCLUDI	9,306,634,587	9.99	9,271,485,249	10.87	-0.38
9021 - ORTHOPEDIC APPLIANCES; SPLINTS ETC.; ARTIFICIAL PARTS OF THE BODY; HEA	10,740,375,060	11.52	9,209,337,984	10.80	-14.26
9030 - OSCILLOSCOPES, SPECTRUM ANALYZERS ETC. FOR MEASURING ETC. ELECTRIC	5,486,870,218	5.89	5,361,330,785	6.29	-2.29
9031 - MEASURING OR CHECKING INSTRUMENTS, APPLIANCES & MACHINES, OTHERS;	5,627,709,338	6.04	4,875,197,739	5.72	-13.38
9022 - X-RAY ETC. APPARATUS, INCLUDING RADIOGRAPHY OR RADIOTHERAPY APPARA	4,022,598,988	4.32	3,680,580,078	4.32	-8.51
9001 - OPTICAL FIBERS & OPTICAL FIBER BUNDLES; OPTICAL FIBER CABLES OTHERS; SI	3,469,553,960	3.73	3,181,891,027	3.73	-8.30
9026 - INSTRUMENTS AND APPARATUS FOR MEASURING OR CHECKING THE FLOW, LEV	3,564,602,779	3.83	3,167,289,900	3.72	-11.15
9013 - LIQUID CRYSTAL DEVICES OTHERS; LASERS, OTHER THAN LASER DIODES; OPTIC	2,997,334,820	3.22	2,940,213,537	3.45	-1.91
9032 - AUTOMATIC REGULATING OR CONTROLLING INSTRUMENTS AND APPARATUS; F	3,430,350,165	3.68	2,729,100,044	3.20	-20.45
Total	93,240,205,441	100.00	85,346,665,193	100.00	-8.47

COVID-19 Impact

Covid-19 shutdowns in manufacturing no doubt had put a dent in products available for export. There is also reason to believe that the reallocation of production capacity to products useful in detecting and treating the coronavirus also played a part in trimming overseas sales of Section XVIII instruments and appliances.

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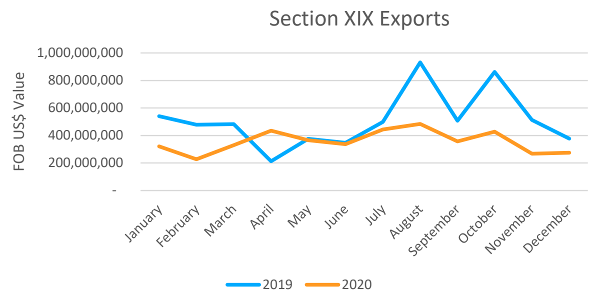
Section XIX

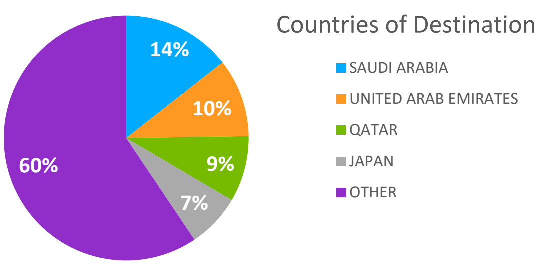
Arms and Ammunition; Parts and Accessories Thereof

Overview & Digest



Section XIX exports declined in 2020 by 30.3%. But while the rest of U.S. exports were throttled in April and May, arms and ammunition sales surged 104.1% in April, then slipped 2.8% in May compared with the same months in 2019. From July through December, exports remained below 2019 levels.

- Among this section's top 10 products, revolvers and pistols [HS9302] the biggest gain in export value – 79%. Thailand was the top destination for these exports, accounting for 46.7% of sales in 2020, compared with 14.5% in 2019.
- Bombs, grenades, and torpedoes [HS9306] remained Section XIX's top export in 2020, despite a 38% decline in sales.



Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
9306 - BOMBS, GRENADES, TORPEDOES AND SIMILAR MUNITIONS OF WAR AND PARTS THEREOF; CARTRIDGES AND OTHER AMMUNITION AND PROJECTILES AND PARTS THEREOF	4,450,086,561	72.66	2,756,032,260	64.60	-38.07
9305 - PARTS AND ACCESSORIES OF ARMS (MILITARY WEAPONS, PISTOLS, REVOLVERS, SHOTGUNS, RIFLES ETC.) OF HEADINGS 9301 TO 9304	609,455,471	9.96	646,939,482	15.17	6.16
9301 - MILITARY WEAPONS, OTHER THAN REVOLVERS, PISTOLS, AND THE ARMS OF HEADING 9307	787,818,255	12.87	503,313,484	11.80	-36.12
9302 - REVOLVERS AND PISTOLS, DESIGNED TO FIRE LIVE AMMUNITION	106,500,140	1.74	190,610,840	4.47	78.98
9303 - SPORTING SHOTGUNS AND RIFLES, MUZZLE LOADING FIREARMS, VERY PISTOLS AND SIMILAR DEVICES, PISTOLS AND REVOLVERS FIRING BLANK AMMUNITION, ETC.	121,172,300	1.98	108,733,014	2.55	-10.27
9304 - ARMS OTHERS (INCLUDING SPRING, AIR OR GAS GUNS AND PISTOLS, BUT EXCLUDING SWORDS, BAYONETS AND SIMILAR ARMS)	44,932,690	0.74	55,598,432	1.31	23.74
9307 - SWORDS, CUTLASSES, BAYONETS, LANCES AND SIMILAR ARMS AND PARTS THEREOF AND SCABBARDS AND SHEATHS THEREFOR	4,835,597	0.08	5,665,482	0.14	17.17
930330 - SPORTING, HUNTING OR TARGET-SHOOTING RIFLES, EXCEPT MUZZLE-LOADING FIREARMS AND COMBINATION SHOTGUN-RIFLES	95,784,263	1.57	84,716,251	1.99	-11.56
930599 - PARTS AND ACCESSORIES OF ARTICLES OF HEADINGS 9303 TO 9304, OTHERS	47,575,627	0.78	74,817,161	1.76	57.26
930520 - PARTS AND ACCESSORIES OF SHOTGUNS OR RIFLES OF HEADING 9303	78,157,944	1.28	70,339,261	1.65	-10.01
Total	6,124,801,014	100.00	4,266,892,994	100.00	-30.34

COVID-19 Impact

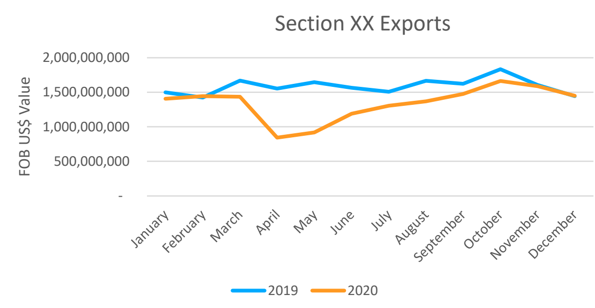
Trade in Section XIX's arms and ammunition follows a pattern shaped largely by geopolitical conditions rather than commercial interests.

To be sure, the devastating impact of the COVID-19 pandemic on national economies will have knock-on effects on national politics and, ultimately, policies that will reshape this trade.

Section XX

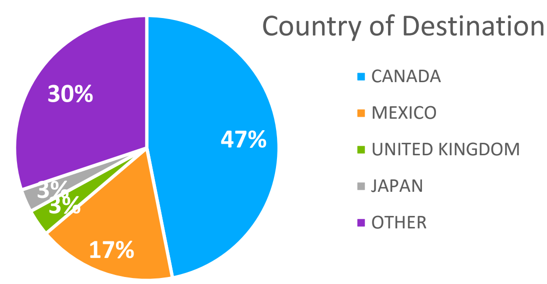
Miscellaneous Manufactured Articles

Overview & Digest



Exports of Section XX's grab bag of manufactured products lagged for most of the year. The Covid-19 related drop in April was an especially steep 45.7% compared with the same month in 2019. The peak shipping season narrowed the gap but 2020 exports closed 15.5% below 2019.

- Section XX's top-value export, seats [HS9401], also led declines, down 23.9%.
- Contrary to the general downward trend, exports of medical, surgical, dental, or veterinary furniture [HS9403] were up 15.5% in 2020.
- A 14.6% decline in exports of video game consoles; arcade, table and parlor games [HS9504] masks 17% positive growth for video game consoles alone [HS950450].



Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
9401 - SEATS (OTHER THAN BARBER, DENTAL AND SIMILAR CHAIRS), WHETHER OR NOT CONVERTIBLE INTO BEDS, AND PARTS THEREOF	3,949,545,560	20.75	3,005,355,543	18.68	-23.91
9403 - FURNITURE, OTHERS (OTHER THAN SEATS, MEDICAL, SURGICAL, DENTAL OR VETERINARY FURNITURE) AND PARTS THEREOF	2,860,865,754	15.03	2,444,697,972	15.19	-14.55
9504 - VIDEO GAME CONSOLES AND MACHINES, ARTICLES FOR ARCADE, TABLE OR PARLOR GAMES, INCL PINBALL MACHINES, BILLIARDS ETC; AUTO BOWLING ALLEY EQUIP; PARTS	2,508,757,791	13.18	2,028,539,496	12.61	-19.15
9506 - ARTICLES AND EQUIPMENT FOR GENERAL PHYSICAL EXERCISE ETC. OR OUTDOOR GAMES OTHERS; SWIMMING POOLS AND WADING POOLS; PARTS AND ACCESSORIES THEREOF	2,001,175,581	10.51	1,761,770,753	10.95	-11.97
9405 - LAMPS AND LIGHTING FITTINGS AND PARTS THEREOF OTHERS; ILLUMINATED SIGNS ETC. WITH A FIXED LIGHT SOURCE AND PARTS THEREOF OTHERS	1,886,168,305	9.91	1,479,304,717	9.20	-21.58
9503 - TOYS OTHERS; SCALE MODELS ETC.; PUZZLES; PARTS & ACCESSORIES	1,136,701,862	5.97	1,110,511,445	6.90	-2.31
9619 - SANITARY TOWELS (PADS) AND TAMPONS, DIAPERS AND DIAPER LINERS FOR BABIES AND SIMILAR ARTICLES, OF ANY MATERIAL	764,197,805	4.02	769,712,855	4.79	0.73
9402 - MEDICAL, SURGICAL, DENTAL OR VETERINARY FURNITURE; BARBERS' AND SIMILAR CHAIRS HAVING ROTATING, RECLINING AND ELEVATING MOVEMENTS; PARTS THEREOF	608,218,094	3.20	702,379,405	4.37	15.49
9404 - MATTRESS SUPPORTS; ARTICLES OF BEDDING AND SIMILAR FURNISHINGS WITH SPRINGS OR STUFFED OR INTERNALLY FITTED WITH MATERIAL OR OF RUBBER OR PLASTICS	443,976,296	2.34	434,312,993	2.70	-2.18
9603 - BROOMS, BRUSHES, HAND-OPERATED FLOOR SWEEPERS, NOT MOTORIZED, MOPS AND FEATHER DUSTERS; PREPARED KNOTS AND TUFTS; PAINT PADS AND ROLLERS; SQUEEGEES	456,028,081	2.40	429,574,545	2.67	-5.81
Total	19,041,431,684	100.00	16,095,035,446	100.00	-15.48

COVID-19 Impact

While U.S. imports during 2020's peak shipping season played catch-up last fall after COVID-19 restrictions began to ease, U.S. exports were stymied by a shortage of empty containers.

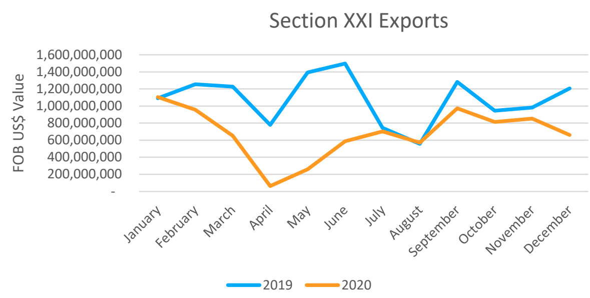
In some cases, carriers eager to move the backlog of U.S.-bound shipments skipped reloading containers at the U.S. end and sped them back to pick up more imports. U.S. exports of consumer merchandise, especially reliant on container shipping, felt the pinch.

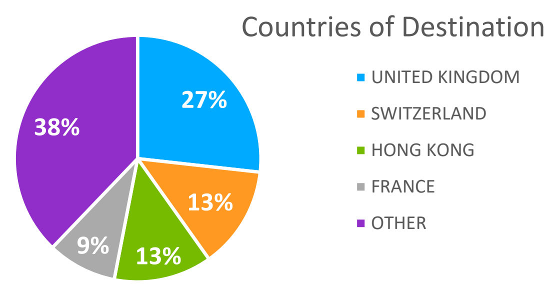
Section XXI

Works of Art, Collectors' Pieces and Antiques

Overview & Digest

- Exports of Section XXI's art and collectibles declined 36.7% in 2020 compared with 2019, a significant loss. Even more devastating, cross-border sales nearly came to a halt in April, falling 91.8%. July's exports showed signs of recovering with a year-over-year decline of 5.6%, and August exports return to positive growth with a 2.8% gain – but the summer months are not usually peak shipping months for art and had negligible impact on the cumulative damage at year-end.
- Paintings, drawings and pastels done by hand [HS 9701], accounting for 72.3% of the total value of Section XXI exports, declined 37.6% y-o-y.
- Exports of collections and collectors pieces of scientific or historical interest [HS9705] achieved nearly flat growth, faltering a mere 0.3%, and gained a percentage point share of the section's total export value.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
9701 - PAINTINGS, DRAWINGS AND PASTELS, EXECUTED BY HAND AS WORKS OF ART; COLLAGES AND SIMILAR DECORATIVE PLAQUES	9,483,139,473.00	73.23	5,921,126,606.00	72.25	-37.57
9703 - ORIGINAL SCULPTURES AND STATUARY, IN ANY MATERIAL	1,964,156,109.00	15.17	1,167,757,861.00	14.25	-40.55
9706 - ANTIQUES OF AN AGE EXCEEDING ONE HUNDRED YEARS	893,369,411.00	6.90	668,750,956.00	8.16	-25.15
9705 - COLLECTIONS AND COLLECTORS' PIECES OF ZOOLOGICAL, BOTANICAL, MINERALOGICAL, HISTORICAL, ARCHAELOGICAL, NUMISMATIC OR OTHER INTEREST	228,598,233.00	1.77	227,915,654.00	2.79	-0.30
9702 - ORIGINAL ENGRAVINGS, PRINTS AND LITHOGRAPHS, FRAMED OR NOT FRAMED	374,504,921.00	2.90	204,987,203.00	2.51	-45.27
9704 - POSTAGE OR REVENUE STAMPS, STAMP-POSTMARKS, FIRST-DAY COVERS, POSTAL STATIONARY (STAMPED) ETC., USED OR UNUSED, OTHER THAN THOSE OF HEADING 4907	6,610,113.00	0.06	5,189,262.00	0.07	-21.50
Total	12,950,378,260.00	100.00	8,195,727,542.00	100.00	-36.72

COVID-19 Impact

Dependent on discretionary spending by buyers who prefer to shop in person and are often from abroad, gallery industries sales are a direct casualty of pandemic lockdowns and travel restrictions.

One study, from Art Basel and UBF, estimates art gallery sales plummeted an average 36% in the first half of 2020. Many have begun to move their businesses online. The Financial Times reports total sales made online grew from a 10% share of business in 2019 to 37% in first-half 2020.

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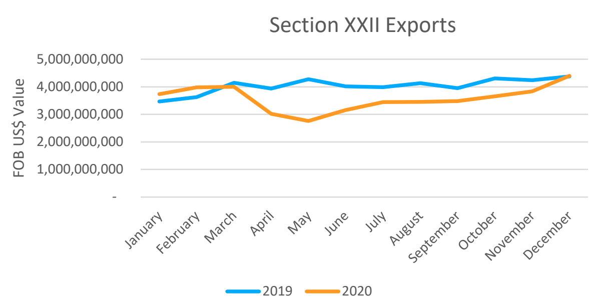
Section XXII

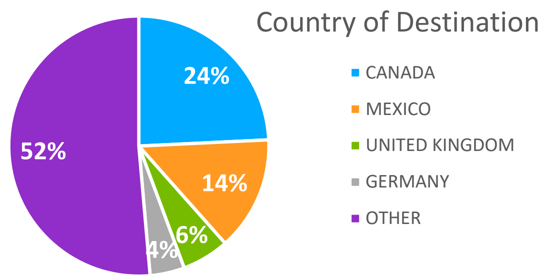
Special Classification Provisions; Temporary Legislation; Temporary Modifications Proclaimed pursuant to Trade Agreements Legislation; Additional Import Restrictions Proclaimed Pursuant to Section 22 of the Agricultural Adjustment Act, As Amended

Overview & Digest

Section XXII exports are exceptions – some temporary, some permanent – to the sometimes arcane rules of tariffs. The section consists of two HTSUS Chapters: Chapter 98 covers exports, Chapter 99 concerns imports. Only Chapter 98 data is provided here. Cross-border movement goods declined 11.4% in value in 2020 compared with 2019.

- Exports of articles donated for relief or charity [HS9802] edged down in value 1.5% year-over-year. Drilling down to the 6-digit HS level reveals that the decline was limited to articles [HS980240] and food products [HS980210] donated by individuals or private agencies. Exports of apparel given by individuals, private and government agencies [HS980230] increased 16.8% last year. Medical and pharmaceutical product donated by individuals or private agencies ticked up 2.8%.





Product HS (4)	2019		2020		Percentage Change
	FOB Value (USD)	%	FOB Value (USD)	%	
9880 - LOW VALUE EXPORT SHIPMENTS; CANADIAN ESTIMATED LATE RECEIPTS	37,849,765,333	78.14	34,453,064,297	80.29	-8.98
9801 - EXPORTS OF ARTICLES IMPORTED FOR REPAIRS ETC.; IMPORTS OF ARTICLES EXPORTED AND RETURNED, UNADVANCED; IMPORTS OF ANIMALS EXPORTED AND RETURNED	8,154,416,576	16.84	6,137,176,324	14.31	-24.74
9802 - EXPORTS OF ARTICLES DONATED FOR RELIEF OR CHARITY, OTHERS; IMPORTS OF ARTICLES EXPORTED AND RETURNED, ADVANCED OR IMPROVED ABROAD,EXCEPT UNDER WARRANTY	1,370,553,989	2.83	1,349,496,967	3.15	-1.54
9803 - EXPORTS OF MILITARY WEARING APPAREL; EXPORTS OF MILITARY EQUIPMENT NOT IDENTIFIED BY KIND	927,029,067	1.92	898,348,877	2.10	-3.10
9870 - ITEMS IMPORTED FROM CANADA AND RETURNED TO CANADA; EXHIBITS FOR CANADIAN PUBLIC MUSEUMS AND INSTITUTIONS; AND ITEMS FOR THE CANADIAN GOVERNOR GENERAL	137,794,513	0.29	73,689,800	0.18	-46.53
Total	48,439,559,478	100.00	42,911,776,265	100.00	-11.42

COVID-19 Impact

Many Chapter 98 provisions deal with the ongoing flow of goods among the U.S., Canada, and Mexico.

The closing of the borders between these countries to contain the pandemic had a clear and direct impact on these trade flows – resulting, for example, in a 46.5% decline in imports returned to Canada, and exhibits on loan from the U.S. [HS9870].

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Our headquarters are in Waterloo, Ontario, Canada and we have offices and partners around the world.

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