

Analysis of U.S. Trade with Canada, 2022

Summary

Imports and exports reported by U.S. Census Bureau¹

In 2022, both U.S. exports to Canada and imports from Canada continued to grow for a third year in a row. U.S. exports totaled \$356.5 billion, an increase of 15.1% (\$46.8 billion), and U.S. imports totaled \$436.6 billion, an increase of 22.2% (\$79.3 billion). The trade deficit was \$80.1 billion, increasing 68.0% (\$32.4 billion) from 2021.

In 2022, 17.3% of total U.S. global exports of \$2.1 trillion were exported to Canada and 13.4% of total U.S. imports of \$3.2 trillion from all countries were imported from Canada.

In 2022, \$9.4 billion of U.S. exports of Miscellaneous Manufactured Items to Canada represented 46.8% of U.S. global exports of those commodities.

In 2022, \$158.0 billion of U.S. imports of Oils, Minerals, Lime, and Cement from Canada constituted 49.4% of the total U.S. imports of those commodities.

BIS export data²

In 2022, U.S. exports to Canada made under a BIS license exception totaled \$170.0 million, a decrease of 22.8% from \$220.3 million in 2021.

In 2022, the top license exception, Servicing & Replacement of Parts & Equipment (RPL), totaled at \$82.0 million (48.2% of all license exceptions for Canada), followed by Encryption Commodities & Software (ENC), totaled at \$66.0 million (38.8%), and Temporary Imports, Exports, & Re-Exports (TMP), totaled at \$14.6 million (8.6%).

¹ Export data in this section refers to trade in “goods” as defined by the U.S. Census: “Merchandise, supplies, raw materials, and products or any other item identified by a Harmonized System (HS) code.” Such data does not capture trade in technologies (e.g., exports made as transmissions or transfers); nor does it capture reexports of US-origin goods or technologies from another country. Nor does it include deemed exports or reexports. <https://www.census.gov/foreign-trade/reference/definitions/index.html#goods>.

² Export data in this section is derived from Automated Export System (AES) filings. Data in this section refers to the export of commodities, software, and technology subject to the Export Administration Regulations (EAR) and regulated as “items.” The data includes exports whether made under a license or a license exception. Such data does not capture trade in technologies (e.g., exports made as transmissions or transfers), nor does it capture reexports of US-origin goods from a third country. Nor does it include deemed exports or deemed reexports.

Analysis of U.S. Trade with Canada, 2022

BIS licensing data³

In 2022, the number of export license applications for Canada, excluding applications for deemed exports and reexports, amounted to 2.4% of total applications worldwide.

In 2022, for applications involving commodities, software, and technology (excluding deemed exports and reexports of technology and source code to Canadian nationals in the U.S. or in a third country), BIS reviewed 919 export/re-export license applications valued at \$1.7 billion for Canada, compared to 39,045 applications worldwide valued at \$335.9 billion. BIS denied no license applications. BIS approved 791 applications valued at \$1.69 billion with an approval rate of 86.1%, compared to 34,068 approvals worldwide and valued at \$226.1 billion with an approval rate of 87.3%. The remaining were returned without action (RWA).

In 2022, BIS reviewed 5 applications for deemed exports or reexports involving Canadian nationals, representing 0.3% of total deemed export or reexport applications worldwide. BIS approved 3 of these applications and returned 2 without action (an approval rate of 60%).

In 2022, the top approved ECCNs on licenses for Canada were 0A501 for Firearms (except 0A502 shotguns) and related commodities with 269 approvals, followed by 0A504 for Optical sighting devices for firearms (including shotguns) with 205 approvals, and 1C351 for Human and animal pathogens and “toxins” with 120 approvals.

In 2022, the average processing time for applications involving Canada was 26 calendar days.

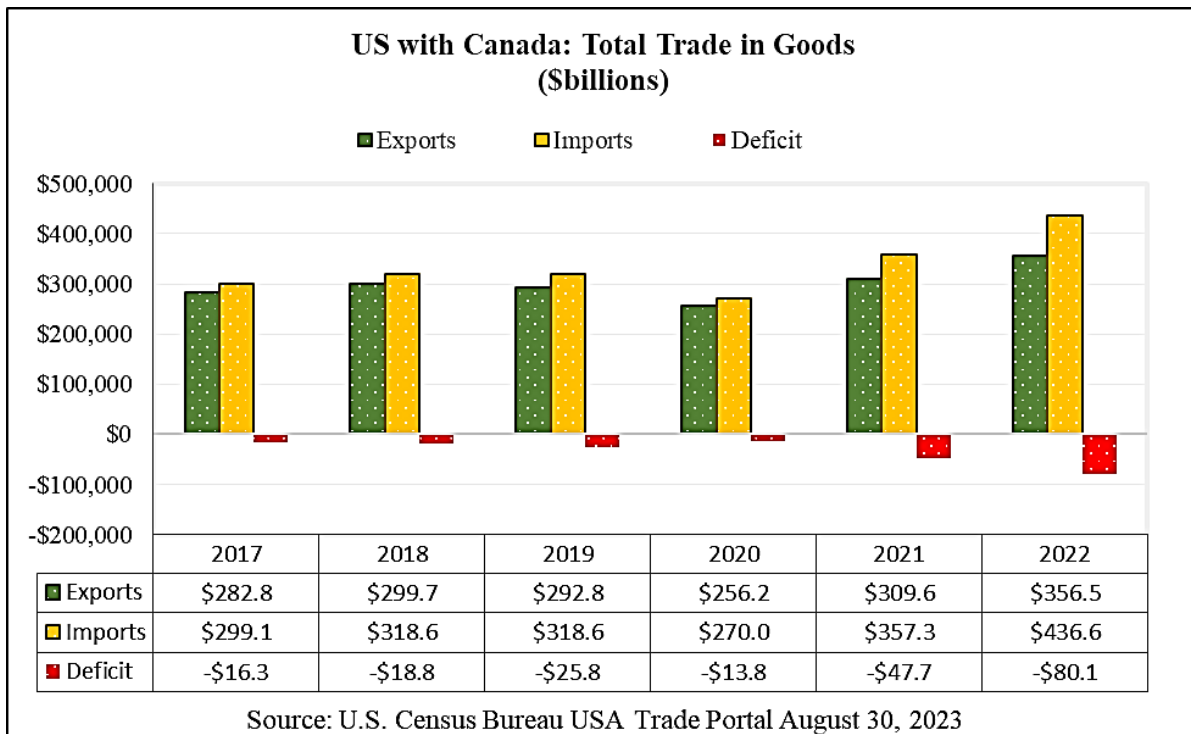
³ Licensing data in this section is drawn from BIS internal systems. Data pertains to applications for export and/or reexport licenses and their associated outcomes. Reexport and export licenses and applications are not differentiated in this report; therefore, references to export licenses or applications should be interpreted as inclusive of reexport licenses and applications as well. All licensing figures include cases of deemed export and/or deemed reexport, unless otherwise noted.



Analysis of U.S. Trade with Canada, 2022

I. Total U.S. trade in goods with Canada⁴

In 2022, both U.S. exports to Canada and imports from Canada continued to grow for a third year in a row. U.S. exports totaled \$356.5 billion, an increase of 15.1% (\$46.8 billion), and U.S. imports totaled \$436.6 billion, an increase of 22.2% (\$79.3 billion). The trade deficit was \$80.1 billion, increasing 68.0% (\$32.4 billion) from 2021.



In 2022, the level of U.S. exports to Canada and U.S. imports from Canada in goods, merchandise, and commodities as well as the trade deficit with Canada all exceeded the prior five-year average level by value (not adjusted for inflation).

	2017	2018	2019	2020	2021	2022	2017-2021 Average
EXPORTS	\$282,773.8	\$299,731.7	\$292,820.3	\$256,212.3	\$309,604.0	\$356,452.6	\$288,228.4
Δvalue	--	\$16,957.9	-\$6,911.5	-\$36,608.0	\$53,391.7	\$46,848.6	
Δpct	--	6.0%	-2.3%	-12.5%	20.8%	15.1%	
IMPORTS	\$299,065.4	\$318,574.8	\$318,588.8	\$270,025.5	\$357,279.5	\$436,561.5	\$312,706.8
Δvalue	--	\$19,509.4	\$14.0	-\$48,563.2	\$87,253.9	\$79,282.1	
Δpct	--	6.5%	0.0%	-15.2%	32.3%	22.2%	
BALANCE	(\$16,291.6)	(\$18,843.1)	(\$25,768.5)	(\$13,813.3)	(\$47,675.4)	(\$80,109.0)	(\$24,478.4)
Δvalue	--	(\$2,551.5)	(\$6,925.4)	\$11,955.2	(\$33,862.2)	(\$32,433.5)	
Δpct	--	15.7%	36.8%	-46.4%	245.1%	68.0%	

Values in Millions of U.S. Dollars. Source: U.S. Census Bureau USA Trade Portal August 30, 2023

⁴ Export data in this section refers to trade in “goods” as defined by the U.S. Census: “Merchandise, supplies, raw materials, and products or any other item identified by a Harmonized System (HS) code.” Such data does not capture trade in technologies (e.g., exports made as transmissions or transfers); nor does it capture reexports of US-origin goods or technologies from another country. Nor does it include deemed exports or reexports. <https://www.census.gov/foreign-trade/reference/definitions/index.html#goods>.



Analysis of U.S. Trade with Canada, 2022

In 2022, of \$356.5 billion in U.S. exports to Canada, the top commodity sectors were Machinery & Mechanical Appliances (21.9% of the total exports to the country), Transportation Equipment (18.2% of such total), and Chemicals, Plastics, Rubber, and Leather Goods (15.6% of such total).

In 2022, of \$436.6 billion in U.S. imports from Canada, the top commodity sectors were Oils, Minerals, Lime, and Cement (36.2% of the total U.S imports from the country), Transportation Equipment (11.6% of such total) and Chemicals, Plastics, Rubber, and Leather Goods (10.2% of such total).

Imports from Canada By Sector	Canada Commodity Trade 2022	US Exports to Canada by Sector
\$436,561,525,548	Total Value All Commodities	\$356,452,564,116
9.5%	Agriculture Products (Chapters 01-24)	9.4%
36.2%	Oils, Minerals, Lime, Cement (Chapters 25-27)	10.9%
10.2%	Chemicals, Plastics, Rubber, Leather Goods (Chapters 28-43)	15.6%
6.2%	Wood, Cork, Paper, Printed Books (Chapters 44-49)	3.2%
0.4%	Textiles, Footwear, Headgear (Chapters 50-67)	1.6%
2.1%	Stone, Glass, Metals, Pearls (Chapters 68-71)	3.7%
8.6%	Base Metals, Iron, Steel, Tools (Chapters 72-83)	6.5%
8.3%	Machinery & Mechanical Appliances (Chapters 84-85)	21.9%
11.6%	Transportation Equipment (Chapters 86-89)	18.2%
1.0%	Optical, Measuring, Medical, Other Instruments (Chapters 90-92)	2.9%
0.0%	Arms & Ammunition (Chapter 93)	0.1%
1.6%	Miscellaneous Manufactured Items (Chapters 94-96)	2.6%
0.0%	Art, Collectors' Pieces, Antiques (Chapter 97)	0.0%
3.8%	Special Classification Items (Chapter 98)	3.3%
0.6%	Temporary Legislation (Chapter 99)	0.0%

Source: U.S. Census Bureau USA Trade Portal August 30, 2023

In 2022, 17.3% of total U.S. global exports of \$2.1 trillion were exported to Canada and 13.4% of total U.S. imports of \$3.2 trillion from all countries were imported from Canada.

Exports

In 2022, \$9.4 billion of U.S. exports of Miscellaneous Manufactured Items to Canada represented 46.8% of U.S. global exports of those commodities. Additionally, \$23.3 billion of exports of Base Metals, Iron, Steel and Tools represented 27.3%, and \$65.0 billion of Transportation Equipment represented 26.7% of U.S. global exports of those commodities.

Imports

In 2022, \$158.0 billion of U.S. imports of oils, minerals, lime, and cement from Canada constituted 49.4% of the total U.S. imports of those commodities. Additionally, \$26.9 billion of imports of wood, cork, paper, and printed books represented 41.0%, and the \$37.4 billion of imports of base metals, iron, steel, and tools represented 19.5% of the global U.S. imports of those commodities.



Analysis of U.S. Trade with Canada, 2022

II. U.S. Exports to Canada Subject to BIS Export Controls⁵

In 2022, of the \$356.5 billion⁶ in U.S. exports to Canada:

- \$300.2 million, or 0.1% of the total value, were exported under a BIS license;
- \$170.0 million, or 0.05% of the total value, were exported under a BIS license exception;
- \$1.3 billion, or 0.4%, were exported under No License Required (NLR) reporting an ECCN⁷;
- \$18.3 million, or 0.01%, were exported under NLR for 600-series .y subparagraph items⁸;
- \$3.5 million, or 0.001%, were exported under NLR for 0A501 .y subparagraph Firearms items.⁹

For comparison, globally:

- 0.4% of U.S. exports by dollar value were exported under a BIS license;
- 0.8% were exported under a BIS license exception;
- 9.6% of exports were exported under NLR reporting an ECCN;
- 0.02% of exports were exported under NLR for 600-series .y subparagraph items;
- 0.001% of exports were exported under NLR for 0A501 .y subparagraph Firearms items.

Canada				
		2020	2021	2022
	Licensed by BIS	\$0.1	\$0.2	\$0.3
	BIS License Exceptions	\$0.2	\$0.2	\$0.2
	NLR reporting an ECCN [8]	\$0.7	\$0.8	\$1.3
	NLR DY6 600-Series .y subparagraph [9]	\$0.02	\$0.01	\$0.02
	NLR YFA 0A501 .y subparagraph firearms [10]	\$0.001	\$0.004	\$0.003
Values in Billions of U.S. Dollars. Source: Automated Export System		February 15, 2023		

Reasons for Control	Chemical and Biological Weapons			Nuclear Nonproliferation		National Security		Missile Tech	Regional Stability		Firearms Convention	Crime Control			Anti-Terrorism	
	CB:1	CB:2	CB:3	NP:1	NP:2	NS:1	NS:2	MT:1	RS:1	RS:2	FC:1	CC:1	CC:2	CC:3	AT:1	AT:2
Canada	X										X					

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⁶ This figure is reported by the U.S. Census Bureau. “Total exports” refers to “goods” as defined by the U.S. Census: “Merchandise, supplies, raw materials, and products or any other item identified by a Harmonized System (HS) code.” Such data does not capture trade in technologies (e.g., exports and imports made as transmissions or transfers), nor does it capture reexports of US-origin goods from another country <https://www.census.gov/foreign-trade/reference/definitions/index.html#goods>.

⁷ Line items reported in AES as license type C33 with an ECCN. Excludes items classified as EAR99.

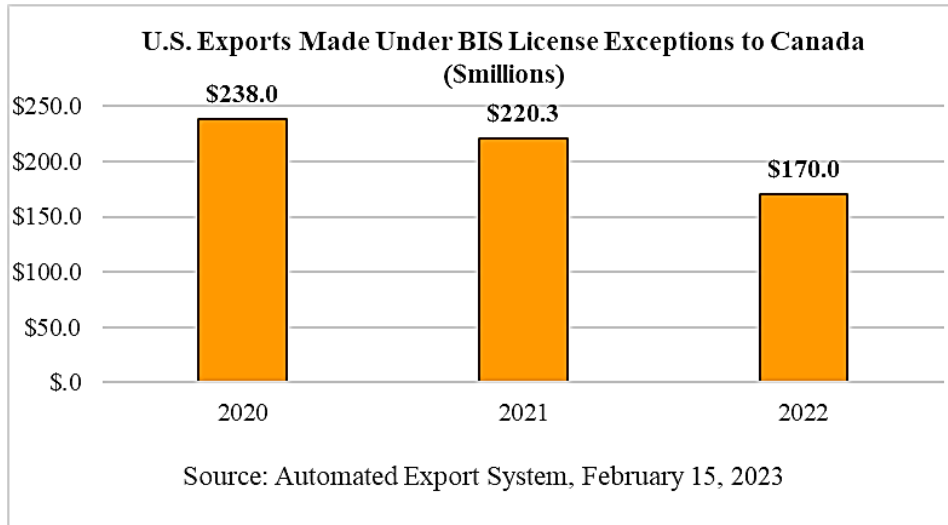
⁸ Line items reported in AES as 9x515 subparagraph .y or “600 series”, and shipped under license type C60 and license number DY6.

⁹ Line items reported in AES as 0A501 subparagraph .y and shipped under license type code C63, and license number YFA.

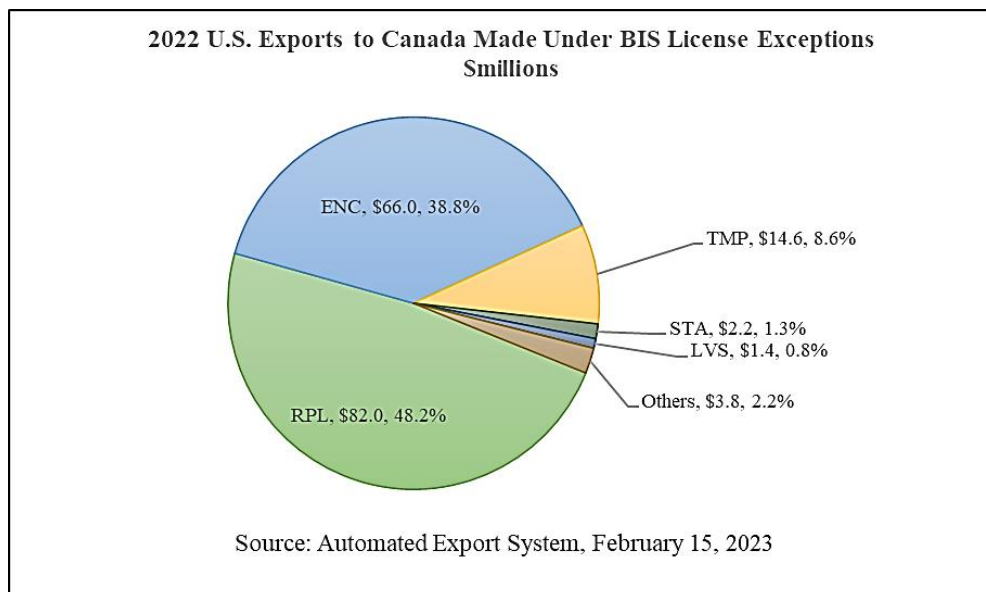


Analysis of U.S. Trade with Canada, 2022

In 2022, U.S. exports to Canada made under a BIS license exception totaled \$170.0 million, a decrease of 22.8% from \$220.3 million in 2021.



In 2022, the top license exception, Servicing & Replacement of Parts & Equipment (RPL), totaled at \$82.0 million (48.2% of all license exceptions for Canada), followed by Encryption Commodities & Software (ENC), totaled at \$66.0 million (38.8%), and Temporary Imports, Exports, & Re-Exports (TMP), totaled at \$14.6 million (8.6%).

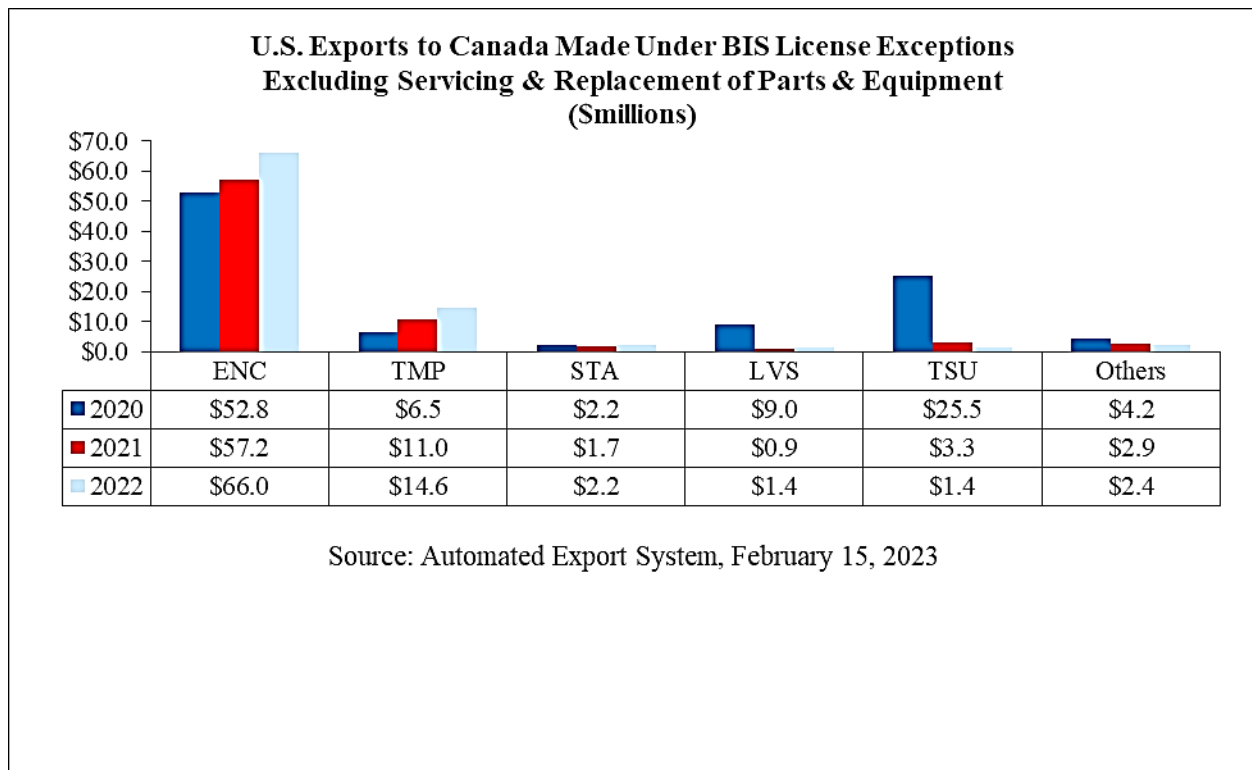
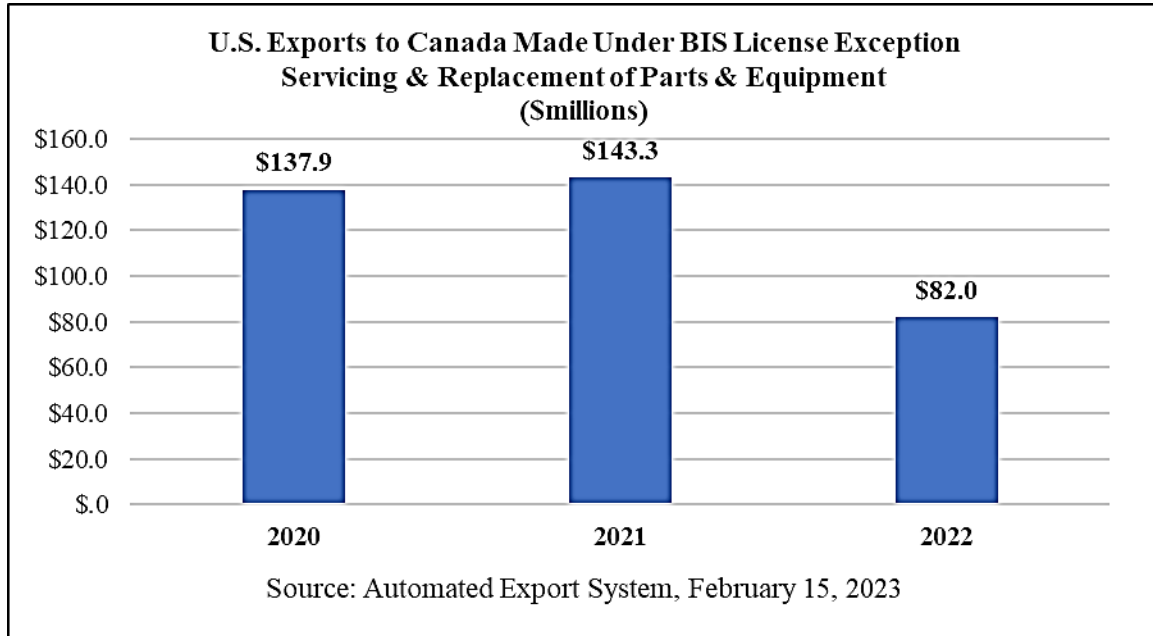


RPL: Servicing and replacement of parts and equipment
ENC: Encryption commodities, software, and technology
TMP: Temporary imports, exports, reexports, and transfers (in-country)
STA: Strategic Trade Authorization
LVS: Limited Value Shipments



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In 2022, U.S. exports to Canada shipped under BIS license exception RPL totaled \$82.0 million, a 42.8% decrease from \$143.3 million in 2021.





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LICENSED	Top ECCNs Reported on Exports to Canada, by aggregate shipment value (\$millions)		
	#1	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#2	0A505	Ammunition as follows (see List of Items Controlled).
	#3	0A504	Optical sighting devices for firearms (including shotguns controlled b
	#4	0A502	Shotguns; shotguns “parts” and “components,” consisting of complete tr
	#5	0A606	Ground vehicles and related commodities, as follows (see List of Items
	#6	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated
	#7	9A619	Military gas turbine engines and related commodities (see List of Item
	#8	3A611	Military electronics, as follows (see List of Items Controlled).
	#9	EAR99	Items subject to the EAR that are not elsewhere specified in this CCL
	#10	9B604	Test, inspection, and production “equipment” and related commodities “

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

EXCEPTIONS	Top ECCNs Reported on Exports to Canada, by aggregate shipment value (\$millions)		
	#1	9A001	Aero gas turbine engines having any of the following (see List of Item
	#2	5A002	“Information security” systems, equipment and “components,” as follows
	#3	EAR99	Items subject to the EAR that are not elsewhere specified in this CCL
	#4	9A991	“Aircraft,” n.e.s., and gas turbine engines not controlled by 9A001 or
	#5	7A103	Instrumentation, navigation equipment and systems, other than those co
	#6	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated
	#7	3A611	Military electronics, as follows (see List of Items Controlled).
	#8	6A003	Cameras, Systems or Equipment, and “Components” Therefor, as Follows (
	#9	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#10	5B002	“Information Security” test, inspection and “production” equipment, as

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

NLR with ECCN	Top ECCNs Reported on Exports to Canada, by aggregate shipment value (\$millions)		
	#1	9A619	Military gas turbine engines and related commodities (see List of Item
	#2	9A991	“Aircraft,” n.e.s., and gas turbine engines not controlled by 9A001 or
	#3	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated
	#4	0A606	Ground vehicles and related commodities, as follows (see List of Items
	#5	5A991	Telecommunication equipment, not controlled by 5A001 (see List of Item
	#6	7A994	Other navigation direction finding equipment, airborne communication e
	#7	9E991	“Technology”, for the “development”, “production” or “use” of equipmen
	#8	3A611	Military electronics, as follows (see List of Items Controlled).
	#9	9A515	“Spacecraft” and related commodities, as follows (see List of Items Co
	#10	5A992	Equipment not controlled by 5A002 (see List of Items Controlled).

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

Source: Automated Export System



Analysis of U.S. Trade with Canada, 2022

LICENSED	Top ECCNs Reported on Exports to Canada, by shipment count [1]		
	#1	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#2	0A505	Ammunition as follows (see List of Items Controlled).
	#3	0A504	Optical sighting devices for firearms (including shotguns controlled b
	#4	0A502	Shotguns; shotguns “parts” and “components,” consisting of complete tr
	#5	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated
	#6	0A606	Ground vehicles and related commodities, as follows (see List of Items
	#7	EAR99	Items subject to the EAR that are not elsewhere specified in this CCL
	#8	1C351	Human and animal pathogens and “toxins,” as follows (see List of Items
	#9	1C353	Genetic elements and genetically modified organisms, as follows (see L
	#10	3A611	Military electronics, as follows (see List of Items Controlled).

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

EXCEPTIONS	Top ECCNs Reported on Exports to Canada, by shipment count [1]		
	#1	5A002	“Information security” systems, equipment and “components,” as follows
	#2	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#3	EAR99	Items subject to the EAR that are not elsewhere specified in this CCL
	#4	1A004	Protective and Detection Equipment and “Components,” Not “Specially De
	#5	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated
	#6	3B991	Equipment not controlled by 3B001 for the manufacture of electronic “p
	#7	0A504	Optical sighting devices for firearms (including shotguns controlled b
	#8	9A991	“Aircraft,” n.e.s., and gas turbine engines not controlled by 9A001 or
	#9	4A003	“Digital computers,” “electronic assemblies,” and related equipment th
	#10	0A502	Shotguns; shotguns “parts” and “components,” consisting of complete tr

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

NLR with ECCN	Top ECCNs Reported on Exports to Canada, by shipment count [1]		
	#1	9A991	“Aircraft,” n.e.s., and gas turbine engines not controlled by 9A001 or
	#2	9A610	Military Aircraft and Related Commodities, Other Than Those Enumerated
	#3	5A992	Equipment not controlled by 5A002 (see List of Items Controlled).
	#4	5A991	Telecommunication equipment, not controlled by 5A001 (see List of Item
	#5	7A994	Other navigation direction finding equipment, airborne communication e
	#6	9A619	Military gas turbine engines and related commodities (see List of Item
	#7	0A606	Ground vehicles and related commodities, as follows (see List of Items
	#8	3A611	Military electronics, as follows (see List of Items Controlled).
	#9	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#10	1A613	Armored and protective “equipment” and related commodities, as follows

Note: ECCN descriptions have been truncated: please review Commerce Control List for full description

[1] Source: Automated Export System. Shipment count is the number of distinct AES filings containing the given ECCN.

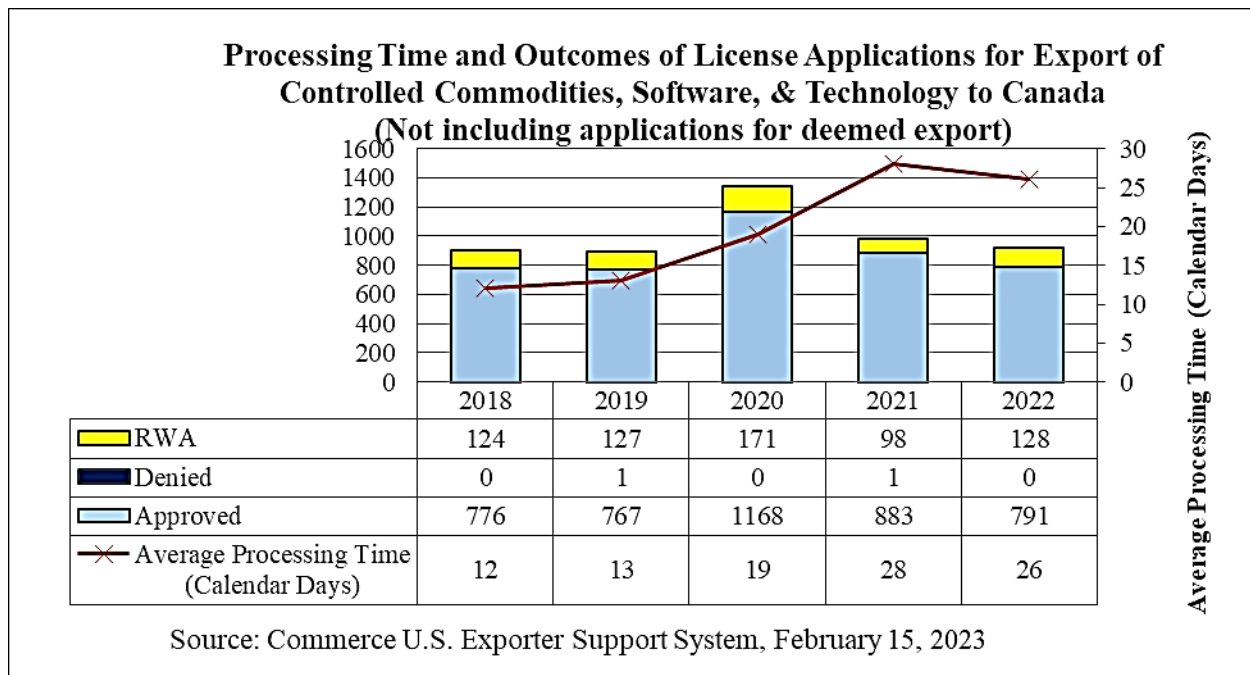


Analysis of U.S. Trade with Canada, 2022

III. BIS Licensing Involving Canada¹⁰

In 2022, the number of export license applications for Canada, excluding applications for deemed exports and reexports, amounted to 2.4% of total applications worldwide.

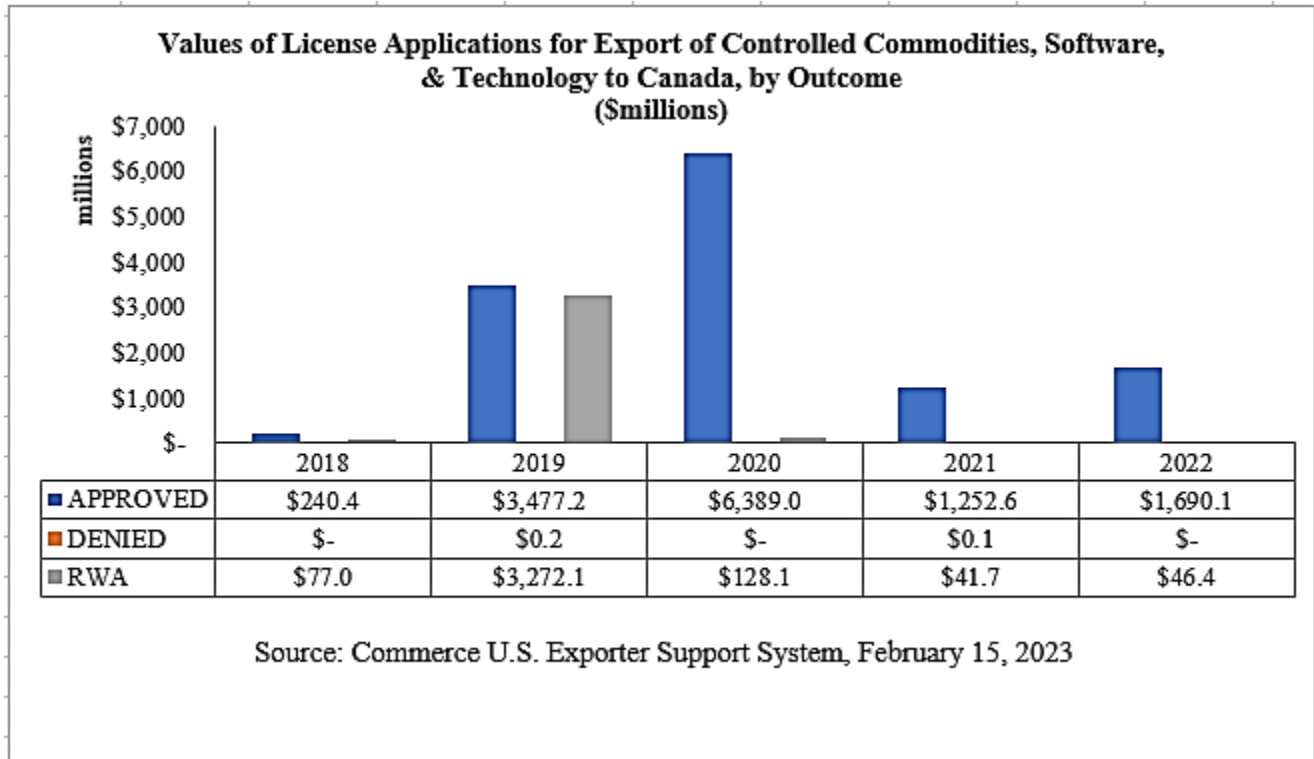
In 2022, for applications involving commodities, software, and technology (excluding deemed exports and reexports of technology and source code to Canadian nationals in the U.S. or in a third country), BIS reviewed 919 export/re-export license applications valued at \$1.7 billion for Canada, compared to 39,045 applications worldwide valued at \$335.9 billion. BIS denied no license applications. BIS approved 791 applications valued at \$1.69 billion with an approval rate of 86.1%, compared to 34,068 approvals worldwide and valued at \$226.1 billion with an approval rate of 87.3%. The remaining were returned without action (RWA).



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Analysis of U.S. Trade with Canada, 2022



In 2022, BIS reviewed 5 applications for deemed exports or reexports involving Canadian nationals, representing 0.3% of total deemed export or reexport applications worldwide. BIS approved 3 of these applications and returned 2 without action (an approval rate of 60%).

In the last five years, there were no denials for applications for deemed exports or reexports involving Canadian nationals.

Count of License Applications for Deemed Export, By Outcome, For Nationals of Canada						
2018-2022						
Year	APPROVED	DENIED	RWA	Canada Total	Worldwide Total	Canada Total/ World Total
2018	2	0	1	3	969	0.3%
2019	4	0	3	7	1,308	0.5%
2020	11	0	0	11	1,207	0.9%
2021	5	0	2	7	924	0.8%
2022	3	0	2	5	1,457	0.3%

Source: Commerce U.S. Exporter Support System, February 15, 2023

In 2022, the top approved ECCNs on licenses for Canada were 0A501 for Firearms (except 0A502 shotguns) and related commodities with 269 approvals, followed by 0A504 for Optical sighting devices for firearms (including shotguns) with 205 approvals, and 1C351 for Human and animal pathogens and “toxins” with 120 approvals.



Office of Technology Evaluation

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Analysis of U.S. Trade with Canada, 2022

Top ECCNs Approved for Export to Canada, by Number of Licenses			2018	2019	2020	2021	2022	% of worldwide
APPROVED	#1	0A501 Firearms (except 0A502 shotguns) and related commodities as follows (s	-	-	506	278	269	5.0%
	#2	0A504 Optical sighting devices for firearms (including shotguns controlled b	-	-	221	244	205	13.1%
	#3	1C351 Human and animal pathogens and "toxins," as follows (see List of Items	145	147	114	142	120	13.0%
	#4	0A505 Ammunition as follows (see List of Items Controlled).	-	-	253	130	99	8.1%
	#5	0A502 Shotguns; shotguns "parts" and "components," consisting of complete tr	-	-	161	111	94	10.5%
Source: Commerce U.S. Exporter Support System, February 15, 2023								

Note: ECCN Descriptions have been truncated; please review Commerce Control List for Full Description

In 2022, the average processing time for applications involving Canada was 26 calendar days.

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Summary of U.S. Exports to Canada Calendar Year 2022				
	2021	2022	% change	% of total exports 2022
Total Exports [1]	\$ 309,604,001,291	\$ 356,452,564,116	15.1%	
EAR Controlled Exports [2]	2021	2022	% change	% of total exports 2022
C30 - Licenses	\$ 231,290,813	\$ 300,204,326	29.8%	0.1%
License Exceptions [2]	2021	2022	% of total license exceptions 2022	% of total exports 2022
C41 - RPL	\$ 143,260,147	\$ 81,968,450	48.2%	0.02%
C50 - ENC	\$ 57,212,825	\$ 66,012,228	38.8%	0.02%
C40 - TMP	\$ 11,009,160	\$ 14,646,478	8.6%	0.004%
C59 - STA	\$ 1,693,280	\$ 2,170,477	1.3%	0.001%
C35 - LVS	\$ 948,309	\$ 1,435,485	0.8%	0.0004%
C44 - TSU	\$ 3,289,017	\$ 1,399,426	0.8%	0.0004%
C42 - GOV	\$ 702,487	\$ 893,236	0.5%	0.0003%
C46 - AVS	\$ 386,556	\$ 598,256	0.4%	0.0002%
C36 - GBS	\$ 1,603,397	\$ 448,892	0.3%	0.0001%
C53 - APP	\$ 120,250	\$ 277,224	0.2%	0.0001%
C43 - GFT	\$ 15,049	\$ 137,850	0.1%	0.00004%
C45 - BAG	\$ 32,750	\$ 7,118	0.004%	0.000002%
Subtotal License Exceptions	\$ 220,273,227.00	\$ 169,995,120.00		0.05%
Total of Licensed Exports and License Exceptions	\$ 451,626,894.00	\$ 470,200,291.00		0.1%
NLR [2]	2021	2022	% of total NLR 2022	% of total exports 2022
C33 - NLR with an ECCN	\$ 832,584,451	\$ 1,314,517,247	98.4%	0.4%
C60 - NLR for 600-series .y subparagraph	\$ 13,942,268	\$ 18,332,498	1.4%	0.01%
C63 - NLR for 0A501 .y subparagraph Firearms	\$ 4,006,164	\$ 3,469,968	0.3%	0.001%
Subtotal NLR	\$ 850,532,883	\$ 1,336,319,713		0.4%

[1] Source: U.S. Census. Refers to trade in “goods” as defined by the U.S. Census: “Merchandise, supplies, raw materials, and products or any other item identified by a Harmonized System (HS) code.” Such data does not capture trade in technologies (e.g., exports made as transmissions or transfers); nor does it capture reexports of US-origin goods or technologies from another country. Nor does it include deemed exports or reexports.

[2] Source: Automated Export System (AES) filings.