

## Analysis of U.S. Trade with Ukraine, 2022

### Summary

#### Imports and exports reported by U.S. Census Bureau<sup>1</sup>

In 2022, both U.S. exports to Ukraine and imports from Ukraine shrank from 2021. U.S. exports totaled \$1.4 billion, a decrease of 43.4% (\$1.1 billion), and U.S. imports totaled \$1.5 billion, a decrease of 20.7% (\$391.1 million). The trade deficit was \$69.3 million, a decrease of 110.9% (\$702.6 million) from 2021.

In 2022, 0.1% of total U.S. global exports of \$2.1 trillion were exported to Ukraine and 0.05% of total U.S. imports of \$3.2 trillion from all countries were imported from Ukraine.

In 2022, \$308.6 million of U.S. exports of Transportation Equipment to Ukraine represented 0.1% of U.S. global exports of those commodities.

In 2022, \$687.4 million of U.S. imports of Base Metals, Iron, Steel, and Tools from Ukraine constituted 0.4% of the total U.S. imports of those commodities.

#### BIS export data<sup>2</sup>

In 2022, U.S. exports to Ukraine made under a BIS license exception totaled \$10.7 million, an increase of 206.1% from \$3.5 million in 2021.

In 2022, the top license exception, Governments, International Organizations, International Inspections under the Chemical Weapons Convention, and the International Space Station (GOV), totaled at \$8.9 million (82.5% of all license exceptions for Ukraine), followed by Encryption Commodities & Software (ENC), totaled at \$1.8 million (16.6%), and Temporary Imports, Exports, Reexports, and Transfers (in-country) (TMP), totaled at \$0.1 million (0.9%).

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<sup>1</sup> 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>.

<sup>2</sup> 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 Ukraine, 2022

### BIS licensing data<sup>3</sup>

In 2022, the number of export license applications for Ukraine, excluding applications for deemed<sup>4</sup> exports, amounted to 1.7% of total applications worldwide.

In 2022, for applications involving commodities, software, and technology (excluding deemed exports and reexports of technology and source code to Ukrainian nationals in the U.S. or in a third country), BIS reviewed 648 export/re-export license applications valued at \$5.0 billion for Ukraine. BIS denied one license application. BIS approved 563 applications valued at \$3.3 billion with an approval rate of 86.9%. The remainder were returned without action (RWA).

In 2022, BIS reviewed 1 application for deemed exports or reexports involving Ukrainian nationals, representing 0.1% of total deemed export or reexport applications worldwide. BIS approved this application (an approval rate of 100%).

In 2022, the top approved ECCNs on licenses for Ukraine were 0A501 for Firearms (except 0A502 shotguns) and Related Commodities with 176 approvals, followed by 1A613 for Armored and Protective “Equipment” and Related Commodities with 99 approvals, and 0A504 for Optical Sighting Devices for Firearms with 96 approvals.

In 2022, the average processing time for applications involving Ukraine was 16 calendar days.

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<sup>3</sup> 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.

<sup>4</sup> Deemed exports are defined in 734.13(b) of the EAR: “Any release in the United States of “technology” or source code to a foreign person is a deemed export to the foreign person's most recent country of citizenship or permanent residency.”

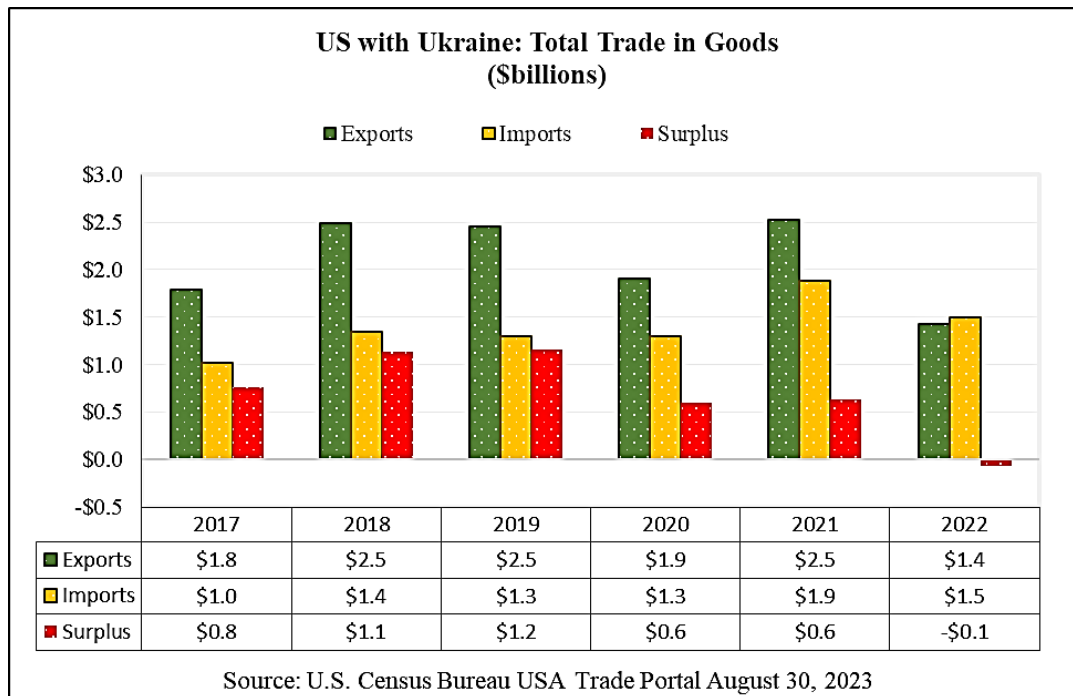
<https://www.ecfr.gov/current/title-15/subtitle-B/chapter-VII/subchapter-C/part-734/section-734.13>



## Analysis of U.S. Trade with Ukraine, 2022

### I. Total U.S. trade in goods with Ukraine<sup>5</sup>

In 2022, both U.S. exports to Ukraine and imports from Ukraine shrank from 2021. U.S. exports totaled \$1.4 billion, a decrease of 43.4% (\$1.1 billion), and U.S. imports totaled \$1.5 billion, a decrease of 20.7% (\$391.1 million). Trade deficit was \$69.3 million, a decrease of 110.9% (\$702.6 million) from 2021.



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

	2017	2018	2019	2020	2021	2022	2017-2021 Average
EXPORTS	\$1,788.3	\$2,486.9	\$2,457.4	\$1,907.7	\$2,521.9	\$1,428.2	\$2,232.4
Δvalue	--	\$698.5	-\$29.5	-\$549.8	\$614.2	-\$1,093.7	
Δpct	--	39.1%	-1.2%	-22.4%	32.2%	-43.4%	
IMPORTS	\$1,020.0	\$1,351.1	\$1,296.8	\$1,304.7	\$1,888.7	\$1,497.6	\$1,372.2
Δvalue	--	\$331.2	-\$54.3	\$7.9	\$584.0	-\$391.1	
Δpct	--	32.5%	-4.0%	0.6%	44.8%	-20.7%	
BALANCE	\$768.4	\$1,135.7	\$1,160.6	\$603.0	\$633.2	(\$69.3)	\$860.2
Δvalue	--	\$367.4	\$24.9	(\$557.6)	\$30.2	(\$702.6)	
Δpct	--	47.8%	2.2%	-48.0%	5.0%	-110.9%	

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

<sup>5</sup> 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 Ukraine, 2022

In 2022, of \$1.4 billion in U.S. exports to Ukraine, the top commodity sectors were Transportation Equipment (21.6% of the total exports to the country), Chemicals, Plastics, Rubber, Leather Goods (18.8% of such total), and Arms & Ammunition (13.8% of such total).

In 2022, of \$1.5 billion in U.S. imports from Ukraine, the top commodity sectors were Base Metals, Iron, Steel, Tools (45.9% of the total U.S imports from the country), Agriculture Products (20.2% of such total) and Machinery & Mechanical Appliances (10.3% of such total).

Imports from Ukraine By Sector	Ukraine Commodity Trade 2022	US Exports to Ukraine by Sector
<b>\$1,497,563,899</b>	<b>Total Value All Commodities</b>	<b>\$1,428,228,306</b>
20.2%	Agriculture Products (Chapters 01-24)	3.8%
3.5%	Oils, Minerals, Lime, Cement (Chapters 25-27)	9.7%
6.1%	Chemicals, Plastics, Rubber, Leather Goods (Chapters 28-43)	18.8%
2.0%	Wood, Cork, Paper, Printed Books (Chapters 44-49)	0.3%
4.6%	Textiles, Footwear, Headgear (Chapters 50-67)	9.0%
0.7%	Stone, Glass, Metals, Pearls (Chapters 68-71)	0.8%
45.9%	Base Metals, Iron, Steel, Tools (Chapters 72-83)	1.3%
10.3%	Machinery & Mechanical Appliances (Chapters 84-85)	10.9%
0.6%	Transportation Equipment (Chapters 86-89)	21.6%
0.6%	Optical, Measuring, Medical, Other Instruments (Chapters 90-92)	6.0%
0.0%	Arms & Ammunition (Chapter 93)	13.8%
2.7%	Miscellaneous Manufactured Items (Chapters 94-96)	0.2%
0.1%	Art, Collectors' Pieces, Antiques (Chapter 97)	0.2%
1.8%	Special Classification Items (Chapter 98)	3.6%
0.9%	Temporary Legislation (Chapter 99)	0.0%
Source: U.S. Census Bureau USA Trade Portal August 30, 2023		

In 2022, 0.1% of total U.S. global exports of \$2.1 trillion were exported to Ukraine and 0.05% of total U.S. imports of \$3.2 trillion from all countries were imported from Ukraine.

### Exports

In 2022, \$308.6 million of U.S. exports of Transportation Equipment to Ukraine represented 0.1% of U.S. global exports of those commodities. Additionally, \$268.8 million of exports of Chemicals, Plastics, Rubber, and Leather Goods represented 0.1%, and \$197.6 million of Arms & Ammunition represented 4.1% of U.S. global exports of those commodities.

### Imports

In 2022, \$687.4 million of U.S. imports of Base Metals, Iron, Steel, Tools from Ukraine constituted 0.4% of the total U.S. imports of those commodities. Additionally, \$303.2 million of imports of Agriculture Products represented 0.1%, and the \$154.9 million of imports of Machinery & Mechanical Appliances represented 0.02% of the global U.S. imports of those commodities.



## Analysis of U.S. Trade with Ukraine, 2022

### II. U.S. Exports to Ukraine Subject to BIS Export Controls<sup>6</sup>

In 2022, of the \$1.4 billion<sup>7</sup> in U.S. exports to Ukraine:

- \$78.9 million, or 5.5% of the total value, were exported under a BIS license;
- \$10.7 million, or 0.8% of the total value, were exported under a BIS license exception;
- \$39.1 million, or 2.7%, were exported under No License Required (NLR) reporting an ECCN<sup>8</sup>;
- \$0.1 million, or 0.01%, were exported under NLR for 600-series .y subparagraph items<sup>9</sup>;
- \$0.8 million, or 0.1 %, were exported under NLR for 0A501 .y subparagraph Firearms items.<sup>10</sup>

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.

Ukraine		2020	2021	2022
	Licensed by BIS	\$13.9	\$18.7	\$78.9
	BIS License Exceptions	\$2.5	\$3.5	\$10.7
	NLR reporting an ECCN [8]	\$29.5	\$72.3	\$39.1
	NLR DY6 600-Series .y subparagraph [9]	\$0.2	\$0.002	\$0.1
	NLR YFA 0A501 .y subparagraph firearms [10]	\$0.1	\$0.4	\$0.8
Values in Millions 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
Ukraine	X					X	X	X	X	X		X	X			

<sup>6</sup> Unless otherwise specified, 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.

<sup>7</sup> 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>.

<sup>8</sup> Line items reported in AES as license type C33 with an ECCN. Excludes items classified as EAR99.

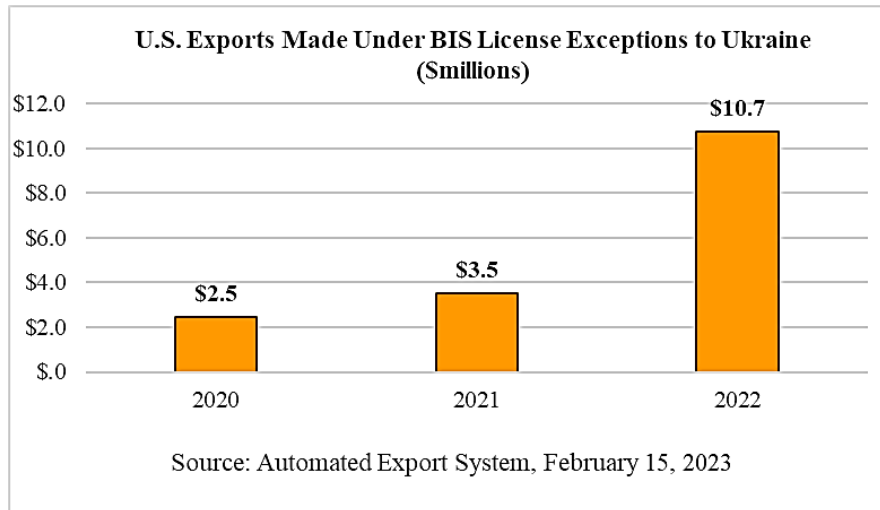
<sup>9</sup> Line items reported in AES as 9x515 subparagraph .y or “600 series”, and shipped under license type C60 and license number DY6.

<sup>10</sup> Line items reported in AES as 0A501 subparagraph .y and shipped under license type code C63, and license number YFA.

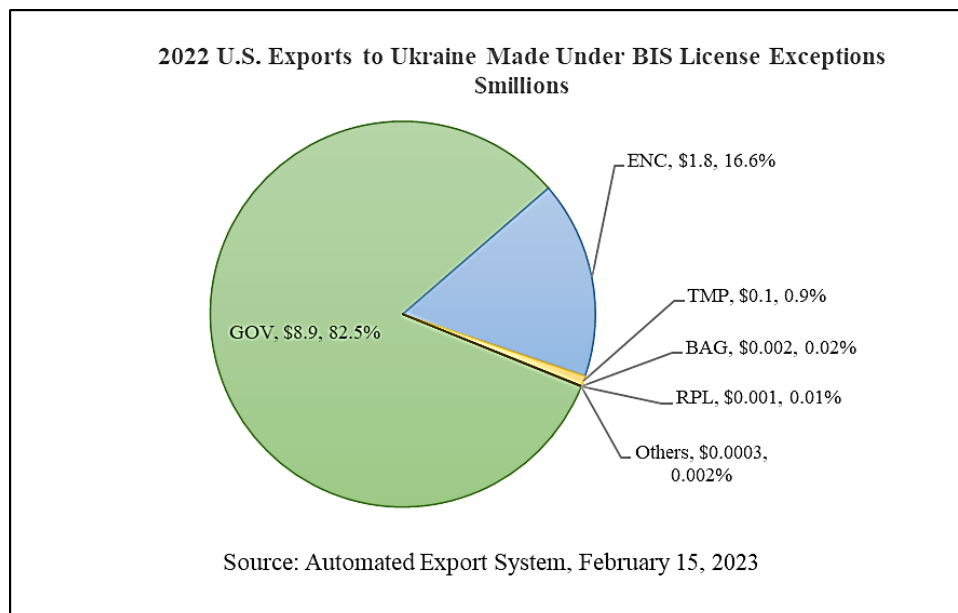


## Analysis of U.S. Trade with Ukraine, 2022

In 2022, U.S. exports to Ukraine made under a BIS license exception totaled \$10.7 million, an increase of 206.1% from \$3.5 million in 2021



In 2022, the top license exception, Governments, international organizations, international inspections under the Chemical Weapons Convention, and the International Space Station (GOV), totaled at \$8.9 million (82.5% of all license exceptions for Ukraine), followed by Encryption Commodities & Software (ENC), totaled at \$1.8 million (16.6%), and Temporary imports, exports, reexports, and transfers (in-country) (TMP), totaled at \$0.1 million (0.9%).



STA: Strategic Trade Authorization

ENC: Encryption commodities, software, and technology

GOV: Governments, international organizations, international inspections under the Chemical Weapons Convention, and the International Space Station

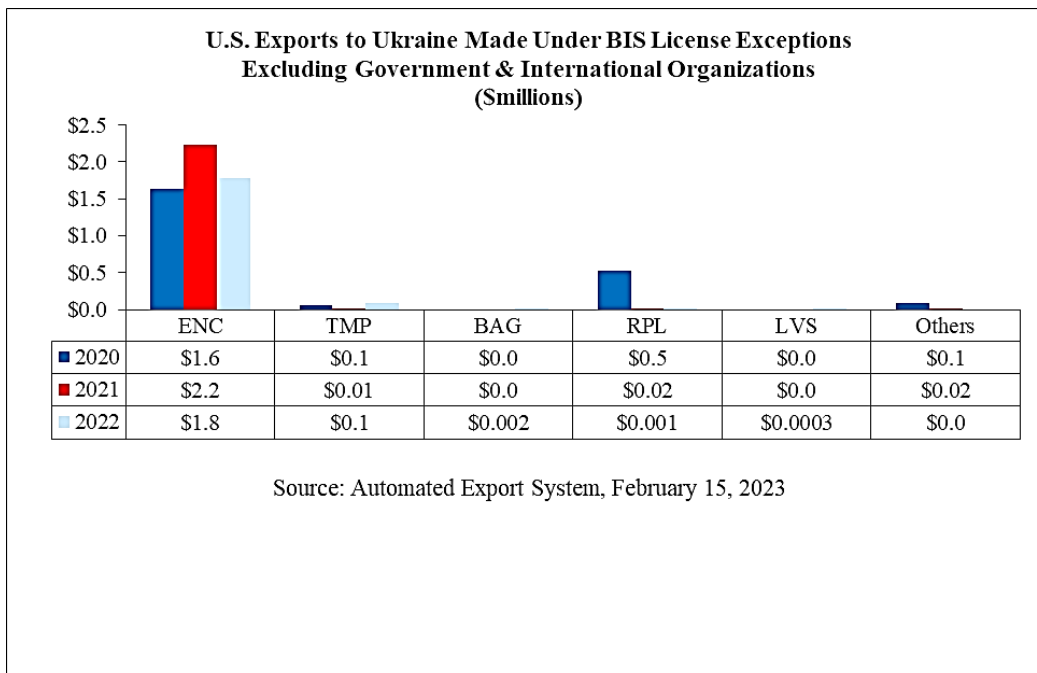
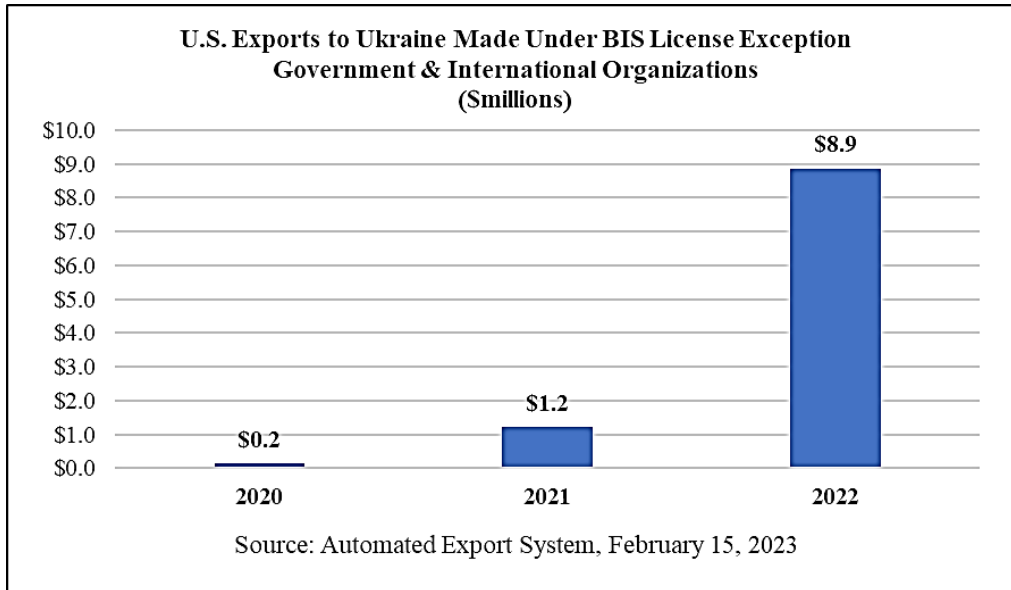
RPL: Servicing and replacement of parts and equipment

TMP: Temporary imports, exports, reexports, and transfers (in-country)



## Analysis of U.S. Trade with Ukraine, 2022

In 2022, U.S. exports to Ukraine shipped under BIS license exception GOV totaled \$8.9 million, a 625.8% increase from \$1.2 million in 2021.







## Analysis of U.S. Trade with Ukraine, 2022

LICENSED	Top ECCNs Reported on Exports to Ukraine, by aggregate shipment value (\$millions)		
	#1	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#2	1A613	Armored and protective “equipment” and related commodities, as follows
	#3	0A504	Optical sighting devices for firearms (including shotguns controlled b
	#4	1A004	Protective and Detection Equipment and “Components,” Not “Specially De
	#5	0A505	Ammunition as follows (see List of Items Controlled).
	#6	5A002	“Information security” systems, equipment and “components,” as follows
	#7	6A003	Cameras, Systems or Equipment, and “Components” Therefor, as Follows (
	#8	1A005	Body armor and “specially designed” “components” therefor, as follows
	#9	9A012	Non-military “Unmanned Aerial Vehicles,” (“UAVs”), unmanned “airships”
	#10	6A008	Radar systems, equipment and assemblies, having any of the following (

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

EXCEPTIONS	Top ECCNs Reported on Exports to Ukraine, by aggregate shipment value (\$millions)		
	#1	1A004	Protective and Detection Equipment and “Components,” Not “Specially De
	#2	6A003	Cameras, Systems or Equipment, and “Components” Therefor, as Follows (
	#3	5A002	“Information security” systems, equipment and “components,” as follows
	#4	1A607	Military dissemination “equipment” for riot control agents, military d
	#5	1A613	Armored and protective “equipment” and related commodities, as follows
	#6	1A006	Equipment, “specially designed” or modified for the disposal of Improv
	#7	9A012	Non-military “Unmanned Aerial Vehicles,” (“UAVs”), unmanned “airships”
	#8	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#9	0A504	Optical sighting devices for firearms (including shotguns controlled b
	#10	5D002	“Software” as follows (see List of Items Controlled).

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

NLR with ECCN	Top ECCNs Reported on Exports to Ukraine, by aggregate shipment value (\$millions)		
	#1	5A992	Equipment not controlled by 5A002 (see List of Items Controlled).
	#2	9A991	“Aircraft,” n.e.s., and gas turbine engines not controlled by 9A001 or
	#3	2B999	Specific Processing Equipment, n.e.s., as Follows (See List of Items C
	#4	3A992	General purpose electronic equipment not controlled by 3A002.
	#5	5A991	Telecommunication equipment, not controlled by 5A001 (see List of Item
	#6	8A992	Vessels, marine systems or equipment, not controlled by 8A001 or 8A002
	#7	1A999	Specific Processing Equipment, n.e.s., as Follows (See List of Items C
	#8	1C992	Commercial charges and devices containing energetic materials, n.e.s.
	#9	4A994	Computers, “electronic assemblies” and related equipment not controlle
	#10	7A994	Other navigation direction finding equipment, airborne communication e

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

Source: Automated Export System





## Analysis of U.S. Trade with Ukraine, 2022

LICENSED	Top ECCNs Reported on Exports to Ukraine, by shipment count [1]		
	#1	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#2	0A504	Optical sighting devices for firearms (including shotguns controlled b
	#3	1A613	Armored and protective “equipment” and related commodities, as follows
	#4	0A505	Ammunition as follows (see List of Items Controlled).
	#5	1A004	Protective and Detection Equipment and “Components,” Not “Specially De
	#6	1A005	Body armor and “specially designed” “components” therefor, as follows
	#7	6A003	Cameras, Systems or Equipment, and “Components” Therefor, as Follows (
	#8	0A502	Shotguns; shotguns “parts” and “components,” consisting of complete tr
	#9	5A002	“Information security” systems, equipment and “components,” as follows
	#10	1A607	Military dissemination “equipment” for riot control agents, military d

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

EXCEPTIONS	Top ECCNs Reported on Exports to Ukraine, by shipment count [1]		
	#1	5A002	“Information security” systems, equipment and “components,” as follows
	#2	1A004	Protective and Detection Equipment and “Components,” Not “Specially De
	#3	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#4	6A003	Cameras, Systems or Equipment, and “Components” Therefor, as Follows (
	#5	1A613	Armored and protective “equipment” and related commodities, as follows
	#6	1A607	Military dissemination “equipment” for riot control agents, military d
	#7	1A006	Equipment, “specially designed” or modified for the disposal of Improv
	#8	0A504	Optical sighting devices for firearms (including shotguns controlled b
	#9	5D002	“Software” as follows (see List of Items Controlled).
	#10	9A012	Non-military “Unmanned Aerial Vehicles,” (“UAVs”), unmanned “airships”

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

NLR with ECCN	Top ECCNs Reported on Exports to Ukraine, by shipment count [1]		
	#1	5A992	Equipment not controlled by 5A002 (see List of Items Controlled).
	#2	9A991	“Aircraft,” n.e.s., and gas turbine engines not controlled by 9A001 or
	#3	5A991	Telecommunication equipment, not controlled by 5A001 (see List of Item
	#4	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s
	#5	7A994	Other navigation direction finding equipment, airborne communication e
	#6	3A991	Electronic devices, and “components” not controlled by 3A001.
	#7	3A992	General purpose electronic equipment not controlled by 3A002.
	#8	1C992	Commercial charges and devices containing energetic materials, n.e.s.
	#9	1A999	Specific Processing Equipment, n.e.s., as Follows (See List of Items C
	#10	3A999	Specific Processing Equipment, n.e.s., as Follows (See List of Items C

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.

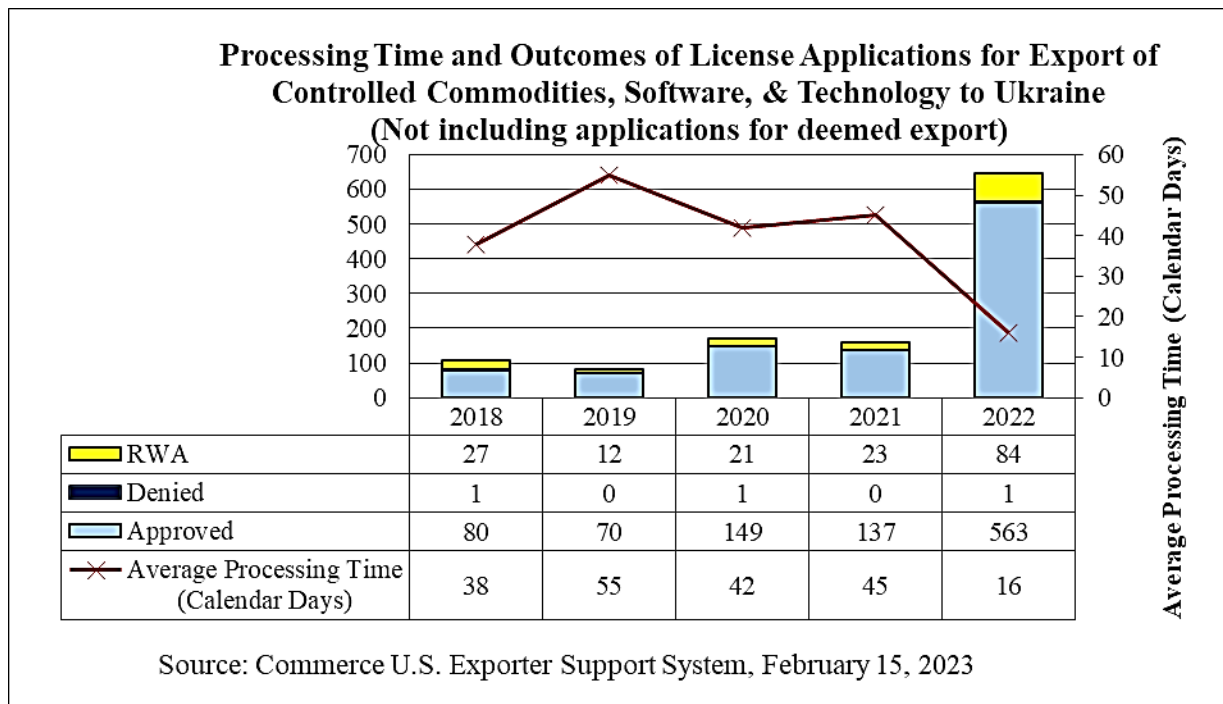


## Analysis of U.S. Trade with Ukraine, 2022

### III. BIS Licensing Involving Ukraine<sup>11</sup>

In 2022, the number of export license applications for Ukraine, excluding applications for deemed exports and reexports, amounted to 1.7% of total applications worldwide.

In 2022, for applications involving commodities, software, and technology (excluding deemed exports and reexports of technology and source code to Ukrainian nationals in the U.S. or in a third country), BIS reviewed 648 export/re-export license applications valued at \$5.0 billion for Ukraine, compared to 39,045 applications worldwide valued at \$335.9 billion. BIS denied one license application. BIS approved 563 applications valued at \$3.3 billion with an approval rate of 86.9%, compared to 34,068 approvals worldwide and valued at \$226.1 billion with an approval rate of 87.3%.

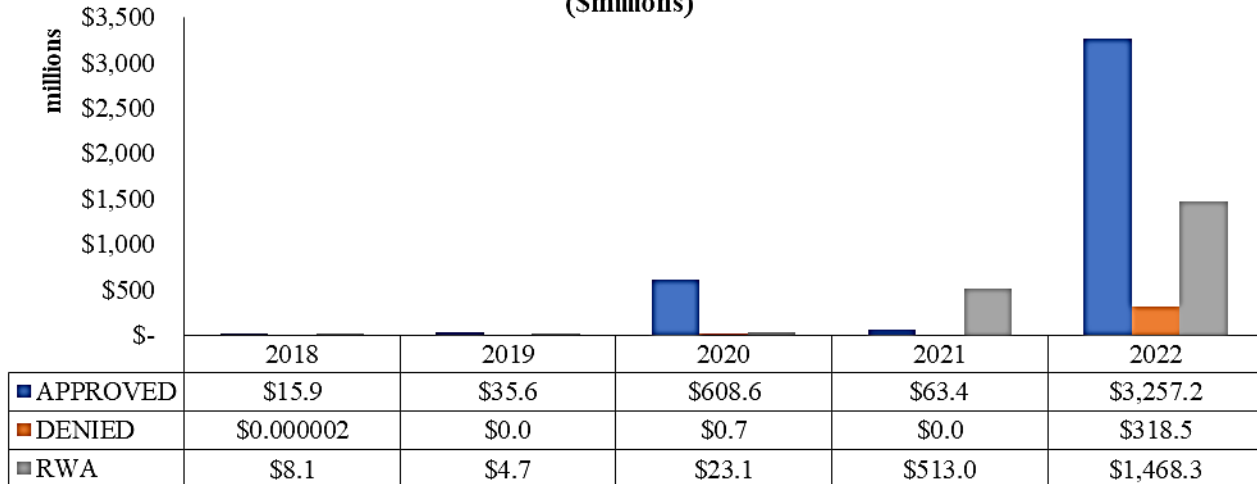


<sup>11</sup> Licensing data in this section is drawn from BIS internal systems. Data pertains to applications for export and/or reexport licenses and their associated outcomes. Reexport and export licenses and applications are not differentiated in this report; therefore, references to export licenses or applications should be interpreted as inclusive of reexport licenses and applications as well. All licensing figures include cases of deemed exports and/or deemed reexports, unless otherwise noted.



## Analysis of U.S. Trade with Ukraine, 2022

**Values of License Applications for Export of Controlled Commodities, Software, & Technology to Ukraine, by Outcome (Smillions)**



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

In 2022, BIS reviewed 1 application for deemed exports or reexports involving Ukrainian nationals, representing 0.1% of total deemed export or reexport applications worldwide. BIS approved this application (an approval rate of 100%).

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

Count of License Applications for Deemed Export, By Outcome, For Nationals of Ukraine						
2018-2022						
Year	APPROVED	DENIED	RWA	Ukraine Total	Worldwide Total	Ukraine Total/World Total
2018	3	0	1	4	969	0.4%
2019	3	0	2	5	1,308	0.4%
2020	2	0	0	2	1,207	0.2%
2021	2	0	1	3	924	0.3%
2022	1	0	0	1	1,457	0.1%

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



## Analysis of U.S. Trade with Ukraine, 2022

In 2022, the top approved ECCNs on licenses for Ukraine were 0A501 for Firearms (except 0A502 shotguns) and Related Commodities with 176 approvals, followed by 1A613 for Armored and Protective “Equipment” and Related Commodities with 99 approvals, and 0A504 for Optical Sighting Devices for Firearms with 96 approvals.

Top ECCNs Approved for Export to Ukraine, by Number of Licenses		2018	2019	2020	2021	2022	% of worldwide total		
APPROVED	#1	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s	-	-	60	41	176	3.2%
	#2	1A613	Armored and protective “equipment” and related commodities, as follows	1	-	-	2	99	17.9%
	#3	0A504	Optical sighting devices for firearms (including shotguns controlled b	-	-	13	22	96	6.1%
	#4	0A505	Ammunition as follows (see List of Items Controlled).	-	-	16	10	67	5.5%
	#5	1A005	Body armor and “specially designed” “components” therefor, as follows	-	-	-	-	42	46.7%
Source: Commerce U.S. Exporter Support System, February 15, 2023									

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

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

ECCNs on Denied License Applications for Export to Ukraine					2022	% of World Total
Denied	#1	0A501	Firearms (except 0A502 shotguns) and related commodities as follows (s		1	2.4%
	#2	0A504	Optical sighting devices for firearms (including shotguns controlled b		1	5.9%
	#3	1A613	Armored and protective “equipment” and related commodities, as follows		1	33.3%
Source: Commerce U.S. Exporter Support System, February 15, 2023						

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 Ukraine was 16 calendar days.



## Analysis of U.S. Trade with Ukraine, 2022

Summary of U.S. Exports to Ukraine Calendar Year 2022				
	2021	2022	% change	% of total exports 2022
<b>Total Exports [1]</b>	\$ 2,521,897,966	\$ 1,428,228,306	-43.4%	
<b>EAR Controlled Exports [2]</b>	2021	2022	% change	% of total exports 2022
C30 - Licenses	\$ 18,227,702	\$ 78,934,415	333.0%	5.5%
<b>License Exceptions [2]</b>	2021	2022	% of total license exceptions 2022	% of total exports 2022
C42 - GOV	\$ 1,221,365	\$ 8,865,154	82.5%	0.6%
C50 - ENC	\$ 2,231,946	\$ 1,778,845	16.6%	0.1%
C40 - TMP	\$ 10,116	\$ 92,047	0.9%	0.01%
C45 - BAG	\$ -	\$ 2,300	0.02%	0.0002%
C41 - RPL	\$ 22,450	\$ 1,106	0.01%	0.0001%
C35 - LVS	\$ -	\$ 250	0.002%	0.00002%
C44 - TSU	\$ 16,966	\$ -	0.0%	0.0%
C46 - AVS	\$ 5,400	\$ -	0.0%	0.0%
Subtotal License Exceptions	\$ 3,508,243.00	\$ 10,739,702.00		0.8%
Total of Licensed Exports and License Exceptions	\$ 22,189,145.00	\$ 89,674,117.00		6.3%
<b>NLR [2]</b>	2021	2022	% of total NLR 2022	% of total exports 2022
C33 - NLR with an ECCN	\$ 72,324,784	\$ 39,087,275	97.6%	2.7%
C60 - NLR for 600-series .y subparagraph	\$ 1,764	\$ 109,151	0.3%	0.01%
C63 - NLR for 0A501 .y subparagraph Firearms	\$ 403,790	\$ 844,349	2.1%	0.1%
Subtotal NLR	\$ 72,730,338	\$ 40,040,775		2.8%

[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.