



Summary

In 2019, the trade level between U.S. and China decreased significantly with an over 10 percentage point. In 2019, U.S. exports to China were \$106.6 billion, a 11.3% (\$13.5 billion) decrease from 2018; U.S. imports from China were \$452.2 billion, a 16.2% (\$87.4 billion) decrease; and the trade deficit was \$345.6 billion, a 17.6% (\$73.9 billion) decrease.

China still maintains significant share of the U.S. – World Trade. In 2019, 6.5 % of total U.S. exports of \$1.6 trillion to the World were exported to China and 18.1% of total U.S. Imports of \$2.5 trillion were imported from China.

In 2019, U.S. exports of Agriculture products to China have increased significantly from \$8.7 billion in 2018 to \$13.4 billion, a 54.8% (\$4.7 billion) increase.

In 2019, BIS has processed a total of 2,677 license applications valued at \$7.8 billion for tangible items, software and technology for China. BIS has approved 2,677, 78.3% of the total applications valued at \$5.4 billion. RWA totaled 56 valued at \$85.1 million. There were 130 denials valued at \$85.1 million.

In 2019, BIS received 657 applications from Chinese nationals for deemed exports and approved 583. There were 74 RWA and no denials.

The top approved ECCNs, including ECCN for deemed exports are 3A233 for Mass spectrometers with 538 approvals; 5E001 for Technology with 514 approvals, and 2B350 for Chemical manufacturing facilities and equipment with 400 approvals.

In 2019, the average processing time for China is 46 days.



I. Total U.S. Trade in goods with China

In 2019, U.S. trade with China decreased by over 10 percentage point from 2018. The U.S. exports to China were \$106.6 billion, a 11.3% (\$13.5 billion) decrease; U.S. imports from China were \$452.2 billion, a 16.2% (\$87.4 billion) decrease; and the trade deficit was \$345.6 billion, a 17.6% (\$73.9 billion) decrease.

In 2019, U.S. exports to China, the imports from China and the trade deficit all below the prior five-year average level by value not adjusted for inflation.



Calendar Year	2014	2015	2016	2017	2018	2019	2014 - 2018 Average
EXPORTS	\$123,657	\$115,873	\$115,595	\$129,798	\$120,148	\$106,627	\$121,014
Δvalue	--	(\$7,783.8)	(\$278.6)	\$14,202.8	(\$9,649.4)	(\$13,521.4)	
Δpct	--	-6.3%	-0.2%	12.3%	-7.4%	-11.3%	
IMPORTS	\$468,475	\$483,202	\$462,420	\$505,220	\$539,676	\$452,243	\$491,798
Δvalue	--	\$14,726.8	(\$20,781.7)	\$42,800.2	\$34,455.4	(\$87,432.2)	
Δpct	--	3.1%	-4.3%	9.3%	6.8%	-16.2%	
BALANCE	(\$344,817.7)	(\$367,328.3)	(\$346,825.2)	(\$375,422.6)	(\$419,527.4)	(\$345,616.7)	(\$370,784.3)
Δvalue	--	(\$22,510.6)	\$20,503.1	(\$28,597.4)	(\$44,104.8)	\$73,910.8	
Δpct	--	6.5%	-5.6%	8.2%	11.7%	-17.6%	

Source: U.S. Census Bureau, USA Trade Portal March 27th, 2020; Value of Data in Millions



In 2019, of the \$106.6 billion in U.S. exports to China, the top commodity sectors were Machinery and Mechanical Appliances (25.5%); Transportation Equipment (18.4%), and Chemicals, Plastics, Leather Goods (18.0%). The U.S. exports of Agriculture products increased from 7.2% of the total U.S. exports in 2018 to 12.6% in 2019.

In 2019, of the \$452.2 billion in U.S. imports from China, the top commodity sectors were Machinery and Mechanical Appliances (48.1%); furniture, bedding, lamps, toys, games, sport equipment, paint and other miscellaneous manufactured items (12.3%) and textiles and footwear (12.1%).

Imports from China by Sector	China Commodity Trade 2019	US exports to China by Sector
\$452,243,439,923	Total Value All Commodities	\$106,626,774,557
1.2%	Agriculture (Chapters 01-24)	12.6%
0.2%	Minerals (Chapters 25-27)	3.9%
8.9%	Chemicals, Plastics, Leather (Chapters 28-43)	18.0%
1.9%	Wood Products (Chapters 44-49)	4.4%
12.1%	Textiles and Footwear (Chapters 50-67)	1.5%
2.0%	Stone, Glass, & Semiprecious Metals (Chapters 68-71)	1.8%
5.3%	Base metals (Chapters 72-83)	2.8%
48.1%	Machinery (Chapters 84-85)	25.5%
3.4%	Transportation (Chapters 86-89)	18.4%
2.8%	Optical, Measuring, Medical or Other Instruments (Chapters 90-92)	9.2%
0.0%	Arms & Ammunition (Chapter 93)	0.0%
12.3%	Miscellaneous Manufactured Items (Chapters 94 -96)	0.5%
0.1%	Art & Antiques (Chapter 97)	0.2%
1.9%	Special Items (Chapters 98-99** Imports only 99)	1.1%

Source: U.S. Census Bureau USATrade Portal retrieved February 10, 2018

China’s share in U.S. – World Trade

China maintains significant share of the U.S. – World Trade. In 2019, 6.5 % of total U.S. exports of \$1.6 trillion to the world were exported to China and 18.1% of total U.S. Imports of \$2.5 trillion were imported from China.

Exports

In 2019, the U.S. exported \$4.7 billion worth of Wood Products to China, representing 13.0% of the total U.S. exports to the World of those commodities; and the U.S exports of \$9.8 billion worth of Optical, Measuring, Medical or Other Instruments to China, represented 10.5% of the total U.S. exports to the World of those commodities. Additionally, the U.S. exported \$13.4 billion worth of Agriculture products, representing 9.0% of the total U.S. exports of those commodities.

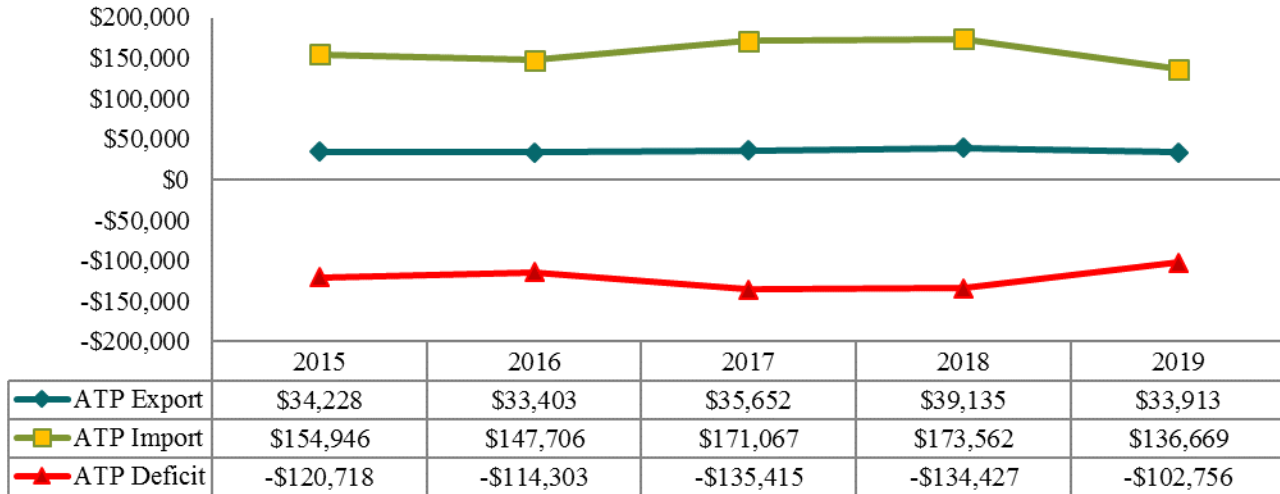
Imports

In 2019, the U.S. imported \$55.4 billion worth of furniture, bedding, lamps, toys, games, sport equipment, paint and other miscellaneous manufactured items from China, representing 54.6% of the total U.S. imports of those commodities; and the U.S. imports of \$54.7 billion worth of Textiles and Footwear represented 36.9% of total U.S. imports of those commodities. Additionally, the U.S. imported \$217.4 billion worth of Machinery and Mechanical Appliances from China, representing 30.3% of the total U.S. imports of those commodities.



In 2019, the U.S. Advanced Technology Products (ATP)¹ exports to China were \$33.9 billion, a 13.3% decrease (\$5.2 billion) from 2018; the U.S. ATP imports from China were \$136.7 billion, a 21.3% (\$36.9 billion) decrease; and the ATP trade deficit was \$102.8 billion, a 23.6% decrease (\$31.7 billion less).

**U.S. Trade with China in Advanced Technology Products
2015 - 2019**
\$millions



Source: U.S.Census Bureau, Foreign Trade Division, retrieved on April 26, 2020

In 2019, the largest categories of the U.S. ATP exports were Aerospace with \$10.5 billion, a 42.5% decrease (\$7.8 billion) from 18.3 billion in 2018; followed by Electronics with \$9.0 billion, a 29.8% increase (\$2.0 billion) from 6.9 billion in 2018.

In 2019, the largest category of the U.S. ATP imports from China were Information & Communications with \$124.1 billion, a 20.9% of decrease (\$32.9 billion) from 157.0 billion in 2018.

¹ Advanced Technology Products: About 500 of some 22,000-export commodity classification codes contain products from a recognized high technology category (e.g. Biotechnology).



II. U.S. Exports to China subject to U.S. Government Filing Requirements

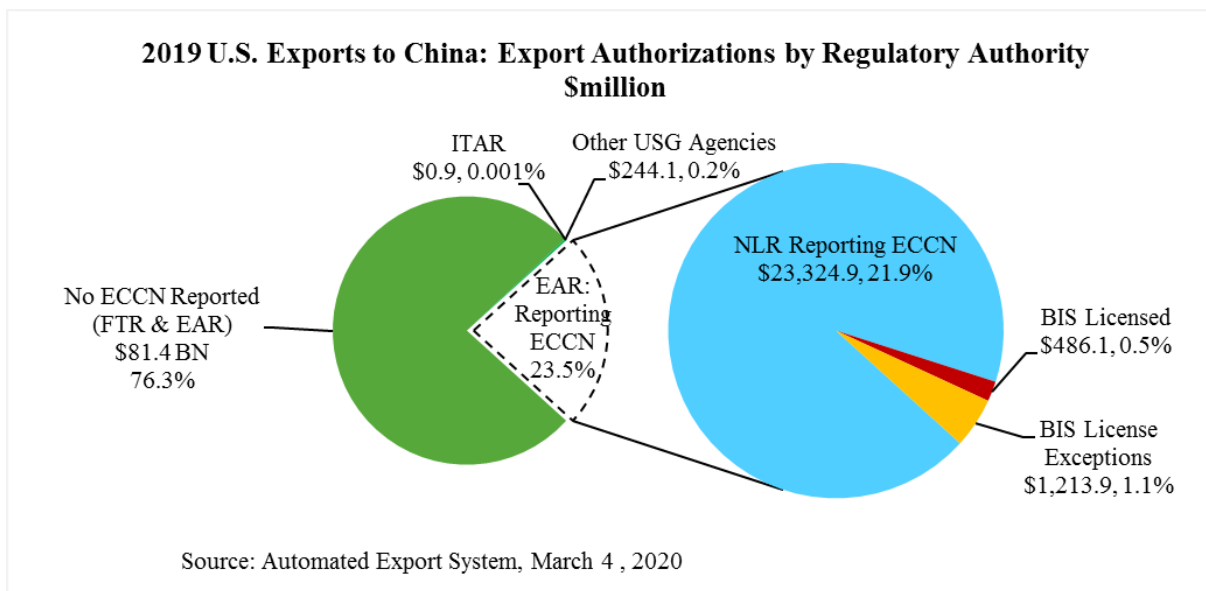
In 2019, of the \$106.6 billion in U.S. exports to China:

- 1.6% were subject to a BIS license requirement
 - 0.5% were exported under a BIS license; Worldwide, 0.4% were exported under a BIS license.
 - 1.1% were exported under a BIS license exception; Worldwide, 1.0% were exported under a BIS license exception.
- 21.9% were exported under No License Required with an ECCN; Worldwide, 12.1% were exported under No License Required with an ECCN.

Exports to China Subject to U.S. Government Filing Requirements				
		2017	2018	2019
	Department of State	\$0.4	\$1.2	\$0.9
	Other USG Agencies	\$287.2	\$110.9	\$244.1
	Department of Commerce	\$129,606.0	\$120,036.0	\$106,381.8
	BIS Licensed	\$300.5	\$464.9	\$486.1
	BIS License Exceptions	\$2,449.3	\$3,111.9	\$1,213.9
	NLR reporting an ECCN	\$23,211.7	\$26,764.1	\$23,324.9
	NLR not reporting an ECCN	\$103,644.5	\$89,695.0	\$81,356.9
	600-Series ".Y" Paragraph NLR	\$0.0	\$0.0	\$0.0

Values in Millions of US Dollars Source: Automated Export System, March 25, 2020

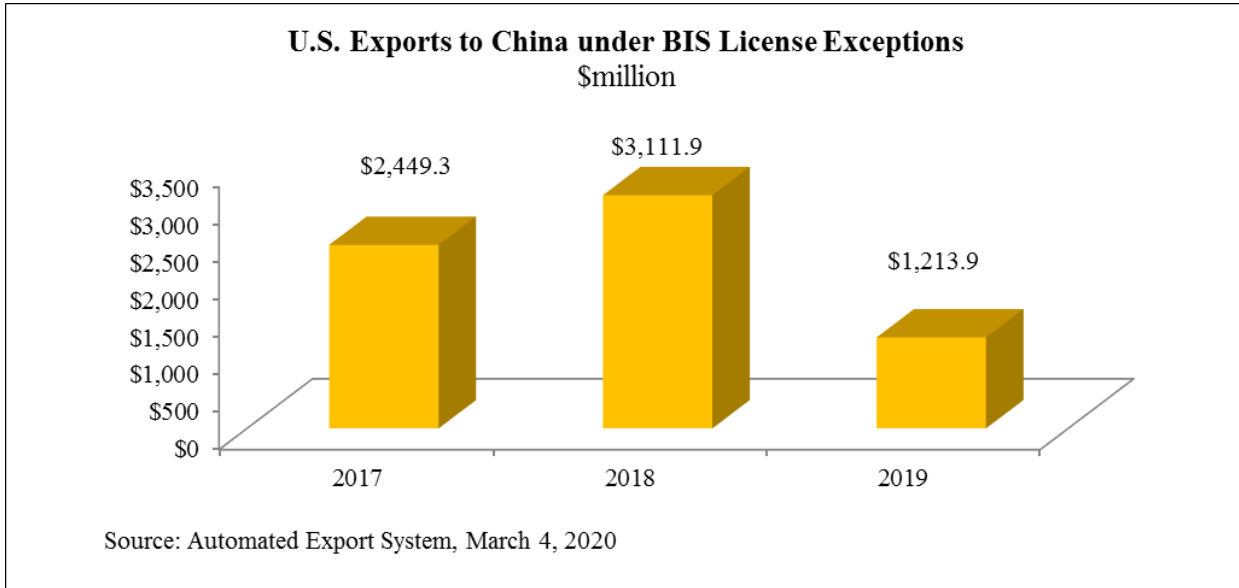
Reasons for Control	Chemical and Biological Weapons			Nuclear Nonproliferation		National Security		Missile Tech	Regional Stability		Firearms Convention	Crime Control			Anti-Terrorism	
	CB:1	CB:2	CB:3	NP:1	NP:2	NS:1	NS:2	MT:1	RS:1	RS:2	FC:1	CC:1	CC:2	CC:3	AT:1	AT:2
China	x	x	x	x		x	x	x	x	x		x		x		



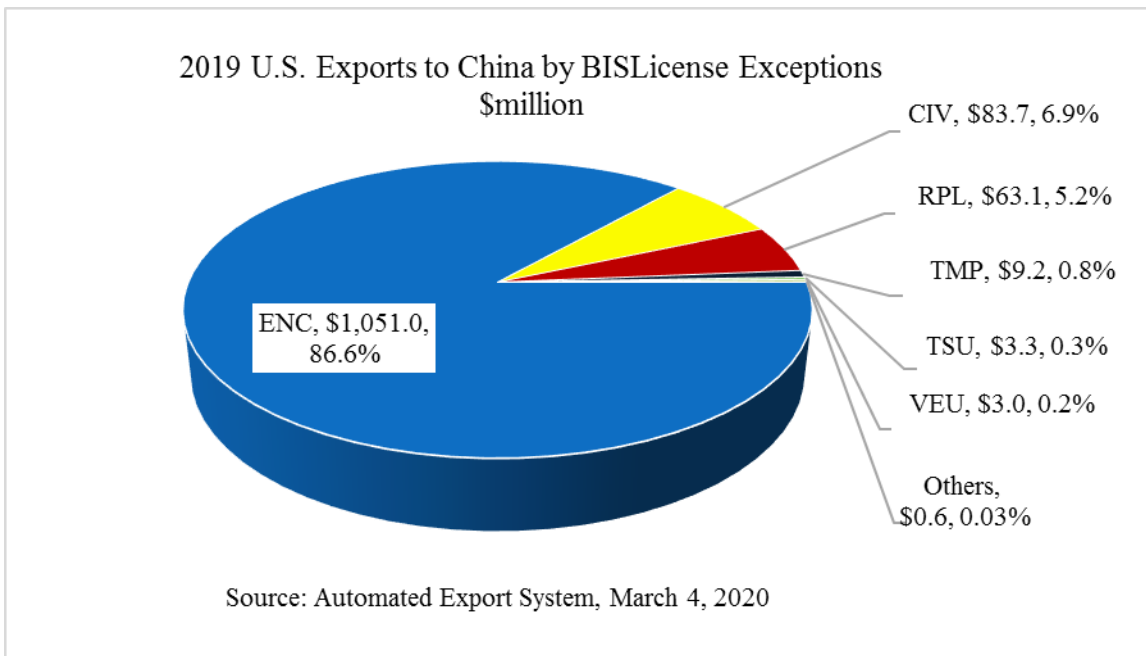


U.S. Exports to China

In 2019, U.S. exports to China shipped under a BIS license exception totaled \$1.2 billion, a 61.0% (\$1.9 billion) decrease from 2018.

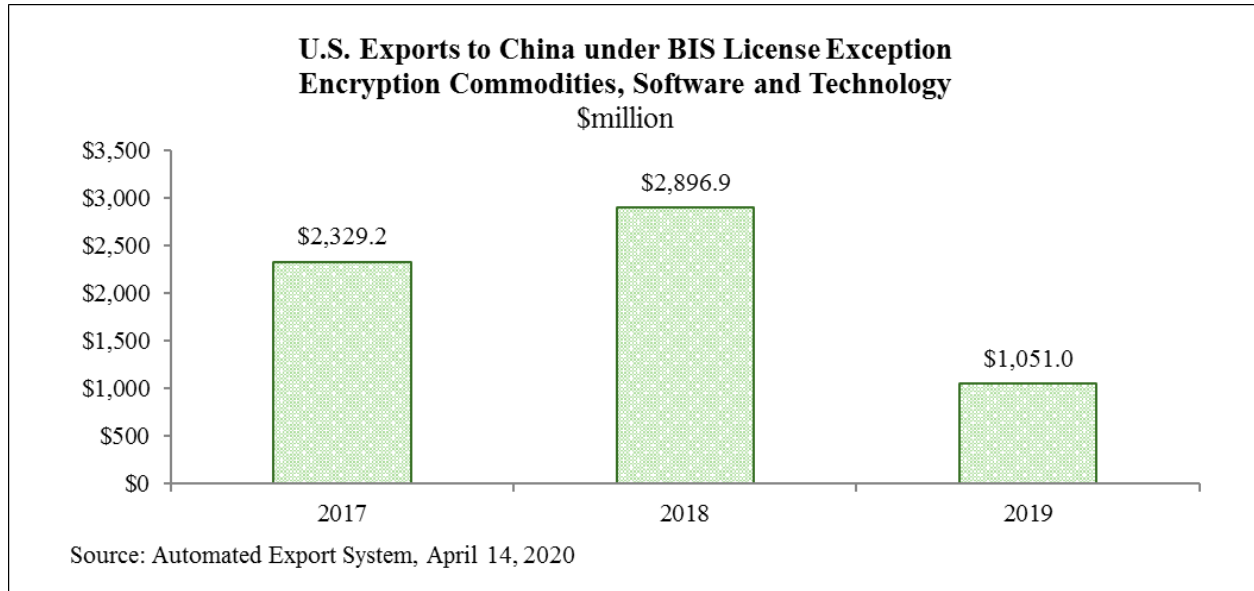


In 2019, the top license exception Encryption commodities, Software and Technology (ENC) totaled \$1.1 billion (86.6% of all license exceptions), followed by Civil End-Users totaled \$83.7 million (6.9%).





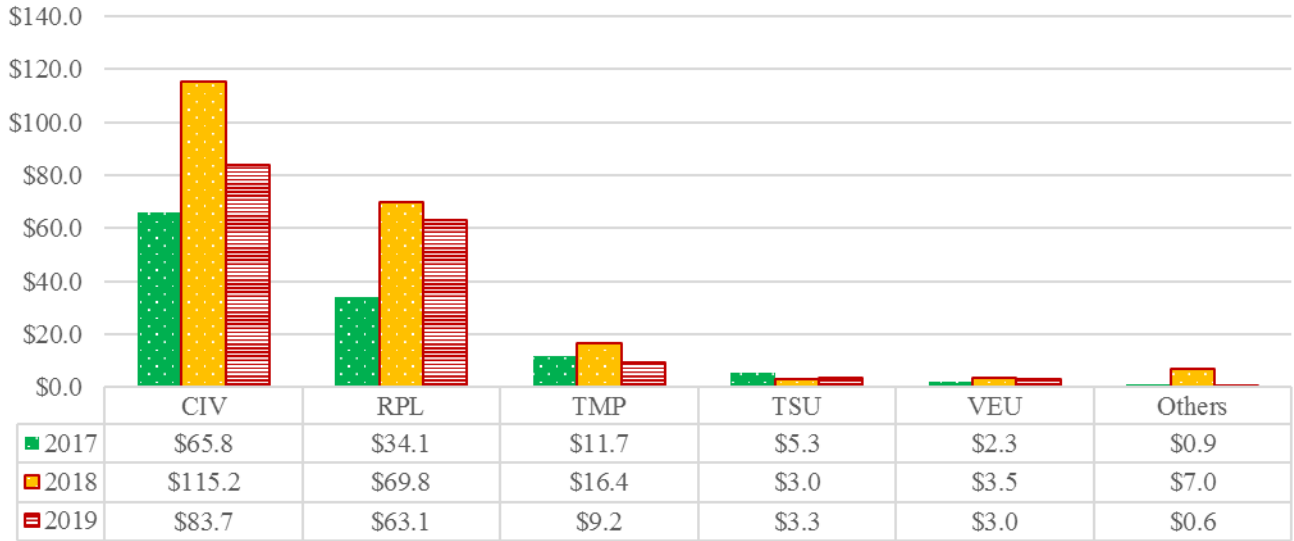
U.S. Exports to China





U.S. Exports to China

**U.S. Exports to China under BIS License Exceptions
Excluding Encryption Commodities & Software**
\$million



Source: Automated Export System, April 14, 2020



Top Ten ECCNs by Value to China (\$million)		
LICENSED	#1	9A001 Aero Gas Turbine Engines
	#2	2B352 Equip. for Handling Biological Materials
	#3	6A005 Optical Equip. (Lasers)
	#4	3A233 Mass Spectrometers
	#5	2B001 Machine tools/Numerical Control Units
	#6	2B350 Chemical Manufacturing Facilities and Equip.
	#7	2B230 Pressure Transducers
	#8	3A001 Electronic Components
	#9	1C010 Fibrous/Filamentary Materials as follows (see List of Items Controlled)
	#10	1A004 Protective and Detection Equip.

Top Ten ECCNs by Value to China (\$million)		
EXCEPTIONS	#1	5A002 Systems/Equip./Integrated Circuits for Info Sec
	#2	3A001 Electronic Components
	#3	9A991 Aircraft N.E.S. and Gas Turbine Engines not Controlled by 9A001 or 9A101 ...
	#4	3B001 Epitaxial Equip. for Semiconductors
	#5	"Information Security" Test, Inspection and "Production" Equipment
	#6	"Software" as follows (see List of Items Controlled)
	#7	7A103 Instrumentation, Navigation Equip./Systems Not
	#8	BLANK No ECCN is required for License Exceptions TMP*
	#9	EAR99 No ECCN Reported
	#10	1C006 Fluids and Lubricating Materials

Top Ten ECCNs by Value to China (\$million)		
NLR with ECCN	#1	EAR99 Items subject to the EAR that are not elsewhere controlled
	#2	9A991 Aircraft N.E.S. and Gas Turbine Engines not Controlled by 9A001 or 9A101 ...
	#3	5A992 Equipment not controlled by 5A002
	#4	3B991 Other Mfg/Test Equip. Not Controlled By 3B
	#5	5A991 Telecommunication Equip. Not Controlled by 5A001
	#6	3B992 Equip. for the Inspection/Testing of Components not Controlled buy 3B002
	#7	3A991 Electronic Devices and "Components" not controlled by 3A001
	#8	3A999 Specific Processing Equip., N.E.S.
	#9	3A992 General Purpose Electronic Equip. Note Controlled by 3A002
	#10	7A994 Other Navigation Direction Finding Equip. ... Not Controlled under 7A003 or 7A103

Source: U.S. Custom & Border Protection, Electronic Export Information Filings, April 8, 2020

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



Top Ten ECCNs by Shipment Count to China	
LICENSES	#1 2B230 Pressure Transducers
	#2 2B350 Chemical Manufacturing Facilities and Equip.
	#3 6A005 Optical Equip. (Lasers)
	#4 3A233 Mass Spectrometers
	#5 3A001 Electronic Components
	#6 2B352 Equip. for Handling Biological Materials
	#7 1C010 Fibrous/Filamentary Materials as follows (see List of Items Controlled)
	#8 1A004 Protective and Detection Equip.
	#9 1C202 Alloys other than those controlled by 1C002.b.3 or 1C002.b.4 as follows (see List of Items Controlled).
	#10 3C004 Hydrides of Phosphorus, Arsenic, Or Antimony

Top Ten ECCNs by Shipment Count to China	
EXCEPTIONS	#1 5A002 Systems/Equip./Integrated Circuits for Info Sec
	#2 9A991 Aircraft N.E.S. and Gas Turbine Engines not Controlled by 9A001 or 9A101 ...
	#3 5D002 "Software" as follows (see List of Items Controlled)
	#4 3A001 Electronic Components
	#5 7A103 Instrumentation, Navigation Equip./Systems Not
	#6 2B230 Items subject to the EAR that are not elsewhere controlled
	#7 EAR99 Items subject to the EAR that are not elsewhere controlled
	#8 5B002 "Information Security" Test, Inspection and "Production" Equipment
	#9 blank No ECCN is required for License Exceptions TMP*
	#10 3B001 Epitaxial Equip. for Semiconductors

Top Ten ECCNs by Shipment Count to China	
NLR with ECCN	#1 EAR99 Items subject to the EAR that are not elsewhere controlled
	#2 5A992 Equipment not controlled by 5A002
	#3 9A991 Aircraft N.E.S. and Gas Turbine Engines not Controlled by 9A001 or 9A101 ...
	#4 3B991 Other Mfg/Test Equip. Not Controlled By 3B
	#5 5A991 Telecommunication Equip. Not Controlled by 5A001
	#6 3A999 Specific Processing Equip., N.E.S.
	#7 3A992 General Purpose Electronic Equip. Note Controlled by 3A002
	#8 3A991 Electronic Devices and "Components" not controlled by 3A001
	#9 7A994 Other Navigation Direction Finding Equip. ... Not Controlled under 7A003 or 7A103
	#10 4A994 Computers Not Controlled By 4A001 or 4A003

Source: U.S. Custom & Border Protection, Electronic Export Information Fillings, April 8, 2020

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

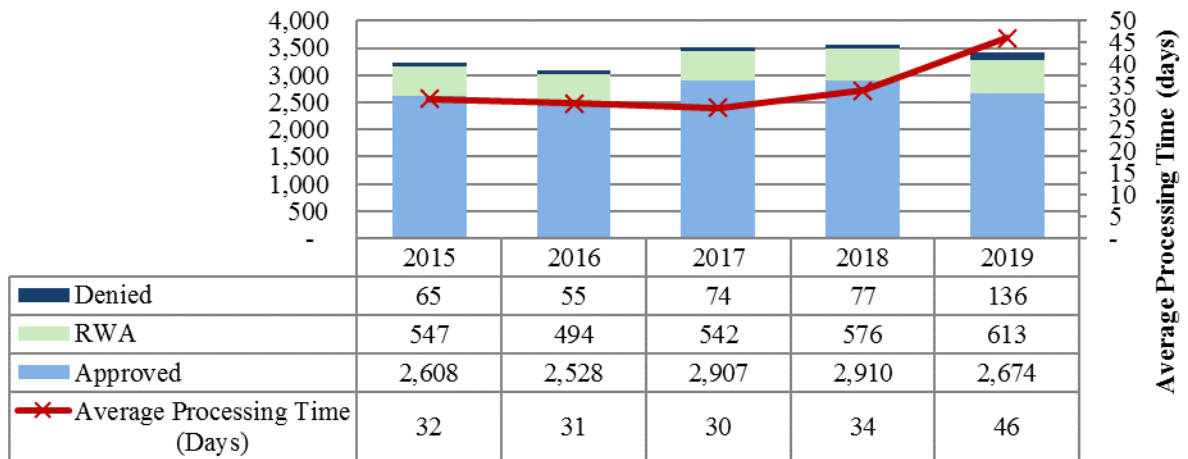


III. BIS Licensing to China

In 2019, BIS reviewed 3,423 export/re-export license applications (not including deemed export applications) for tangible items, software and technology valued at \$7.8 billion for China, out of a total of 32,993 applications worldwide valued at \$158.8 billion. In 2019, license applications for China counted 10.4% of the world total by license count.

– Approved applications for China totaled 2,674 (78.4% of the total applications) for \$4.5 billion, compared to the 28,223 (85.5%) approved applications for all destinations that totaled \$123.0 billion.

**Licenses for Tangible Items, Software and Technology for China
by Count
2015-2019**



Source: Commerce U.S. Exports Exporter Support System, April 27, 2020

In 2019, BIS reviewed 657 deemed export applications from Chinese nationals, 49.8% of 1,320 applications worldwide.

– Approved applications for Chinese nationals totaled 583 (88.7% of total applications for China), compared to 1,124 (85.2%) approved applications for all destinations.

**Deemed Export Licenses for Chinese Nationals
2015 - 2019**

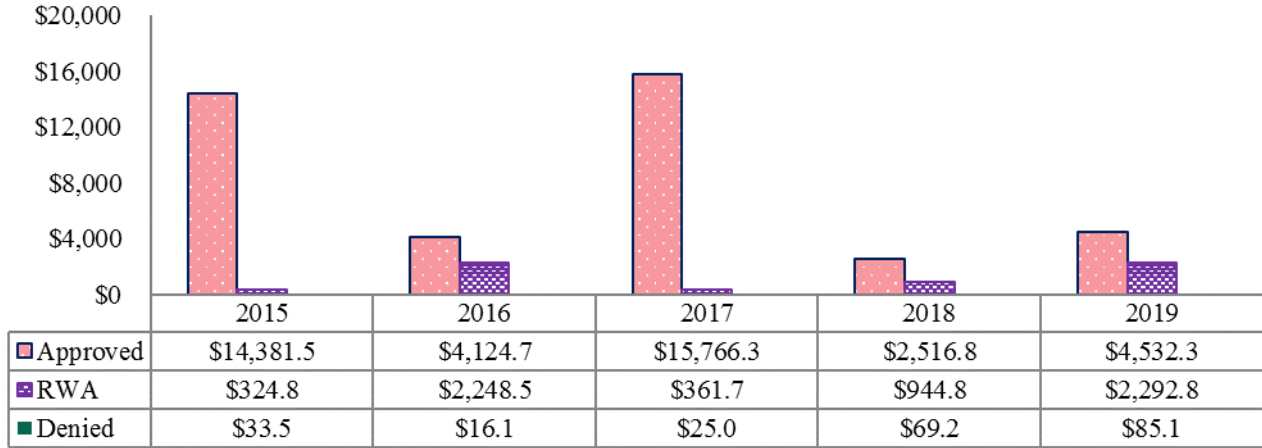
	Approved	RWA	Denied	China Total	World Total	China Total/ World Total
2015	697	27	4	728	1381	52.7%
2016	799	19	2	820	1476	55.6%
2017	771	40	5	816	1525	53.5%
2018	350	60	0	410	985	41.6%
2019	583	74	0	657	1320	49.8%

Source: Commerce U.S. Exports Exporter Support System, retrieved on April 26, 2020



**Licenses for Tangible Items, Software and Technology for China
by Value 2015 - 2019**

\$millions



Source: Commerce U.S. Exports Exporter Support System, April 27, 2020

The top approved ECCNs, including ECCN for deemed exports, are 3A233 for Mass spectrometers with 538 approvals; 5E001 for Technology with 514 approvals, and 2B350 for Chemical manufacturing facilities and equipment with 400 approvals. Except 5D001, all other ECCNs were on the top ten list in 2018.

Top Ten Approved (with deemed) ECCNs to China by Count			2015	2016	2017	2018	2019	% of World Total 2019
APPROVED	#1	3A233 Mass Spectrometers	440	484	718	725	538	74.1%
	#2	5E001 Technology for Dev/Prod/use, Etc, of Equip. In 5A0	368	505	573	329	514	82.5%
	#3	2B350 Chemical Manufacturing Facilities and Equip.	321	339	383	396	400	17.9%
	#4	3E001 Technology for Dev Or Prod of Certain Items In 3A/	483	551	625	204	335	68.2%
	#5	3E002 Other Technology for Items In Category 3	383	444	365	129	324	79.8%
	#6	5D001 Software for Dev/Prod/use of Items In 5A001/5B001/	218	294	231	81	276	80.7%
	#7	2B230 Pressure Transducers	143	118	150	127	176	41.8%
	#8	2B352 Equip. for Handling Biological Materials	138	180	227	249	172	46.5%
	#9	3A001 Electronic Devices/Components	233	185	215	153	169	15.2%
	#10	6A005 Optical Equip. (Lasers)	96	69	78	163	152	75.2%

Source: Commerce U.S. Exports Exporter Support System, April 27, 2020

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



Top Ten Denied (with deemed) ECCNs to China by Count			2019	% of World Total 2019
Denied	#1	3A001 Electronic Devices/Components	28	56.0%
	#2	EAR99 Items subject to the EAR that are not elsewhere controlled	27	38.6%
	#3	3A002 General Purpose Electronic Equip.	10	100.0%
	#4	2B006 Dimensional Inspection/Measuring Systems Or Equipm	7	100.0%
	#5	5D002 Software for Information Security	6	50.0%
	#6	6A003 Cameras	6	85.7%
	#7	6A005 Optical Equip. (Lasers)	6	85.7%
	#8	6C005 Synthetic Crystalline Laser Host Material In Unfin	5	83.3%
	#9	3A992 General Purpose Electronic Equip.	4	80.0%
	#10	3B991 Other Mfg/Test Equip. Not Controlled By 3B	4	100.0%
Source: Commerce U.S. Exports Exporter Support System, April 27, 2020				

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



Summary of U.S. Exports to China

Summary of U.S. Exports to China Calendar Year 2019				
	CY2019	CY2018	% of Total Exports	Percentage Change from previous year
Total Exports	\$106,626,774,557	\$120,148,100,000		-11.3%
Subject to ITAR	\$892,909	\$1,220,083	0.001%	-26.8%
Subject to Other Gov. Agencies	\$244,058,238	\$110,864,064	0.2%	120.1%
Detailed Summary of EAR-Controlled Exports				
AES License Type	Description	Value	Percentage of Total	Percentage Description
C30	Licenses	\$486,110,148	100.0%	
Total of Licensed		\$486,110,148	0.5%	total licensed/total exports
C37	CIV	\$83,657,516	6.9%	
C40	TMP	\$9,241,341	0.8%	
C41	RPL	\$63,077,446	5.2%	
C42	GOV	\$0	0.0%	
C43	GFT	\$24,211	0.002%	
C44	TSU	\$3,310,136	0.3%	
C45	BAG	\$869	0.00007%	
C46	AVS	\$56,232	0.005%	
C50	ENC	\$1,050,984,975	86.6%	
C53	APP	\$98,542	0.008%	
C54	SS-WRC	\$425,480	0.04%	
C57	VEU	\$3,008,615	0.2%	
Total of License Exceptions		\$1,213,885,363	1.1%	total license exceptions/total exports
			71.4%	total license exceptions/total subject to license requirement
Total subject to license requirement (Licensed and License Exceptions)		\$1,699,995,511	1.6%	total subject to license requirement/total exports
Total Exports reported with an ECCN under No License Required		\$23,324,948,846	21.9%	total NLR with an ECCN/total exports
Exports not reporting an ECCN or EAR99		\$81,356,879,053	76.3%	total NLR without ECCN or EAR/total exports

Source: U.S. Census Bureau, Foreign Trade Division and Automated Export System, April 8, 2020