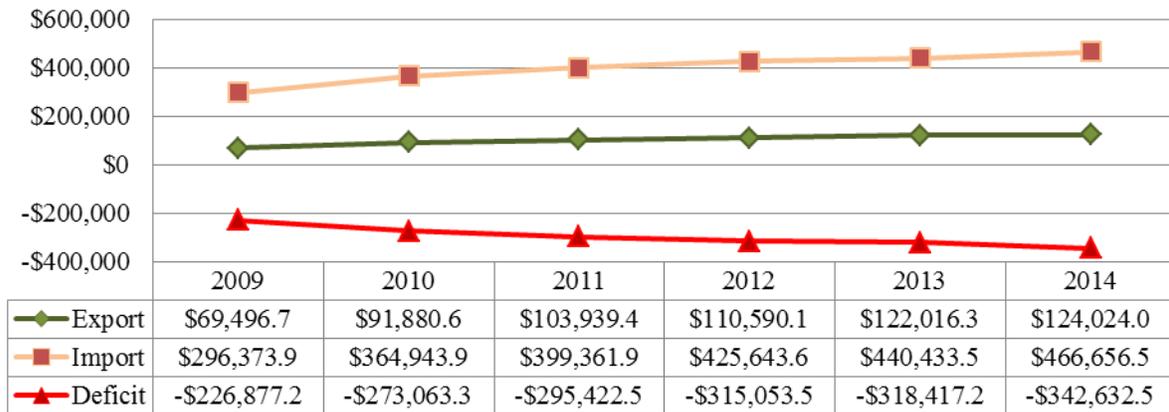


# Statistical Analysis of U.S. Trade with China for Calendar Year 2014

## I. U.S Trade with China<sup>1</sup>

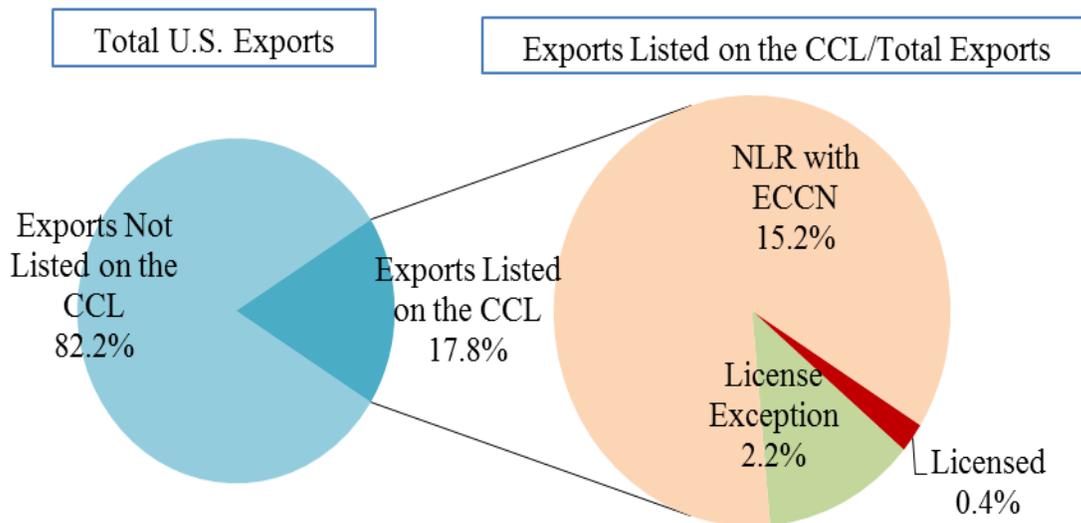
**U.S. Trade with China 2009-2014**  
Smillions



In 2014, U.S. exports to China were \$124.0 billion, 1.6% (\$2.0 billion) increase from 2013; U.S. imports from China were \$466.7 billion, 6.0% (\$26.2 billion) increase; and the trade deficit were \$342.6 billion, 7.6% (\$24.2 billion) increase.

## II. Impact of BIS Export Controls on U.S.-China Trade<sup>2</sup>

**2014 U.S. Exports to China**



Note: For the purpose of this report, exports not listed on the Commerce Control List (CCL) include EAR99 items and items under No License Required (NLR) designation without an Export Control Classification Number (ECCN), and exports regulated by other government agencies.

<sup>1</sup> Source: U.S. Census Bureau Trade Statistics, retrieved on February 6, 2015.

<sup>2</sup> Source: U.S. Census Bureau Trade Statistics and Automated Export System (AES), retrieved on February 9, 2015.

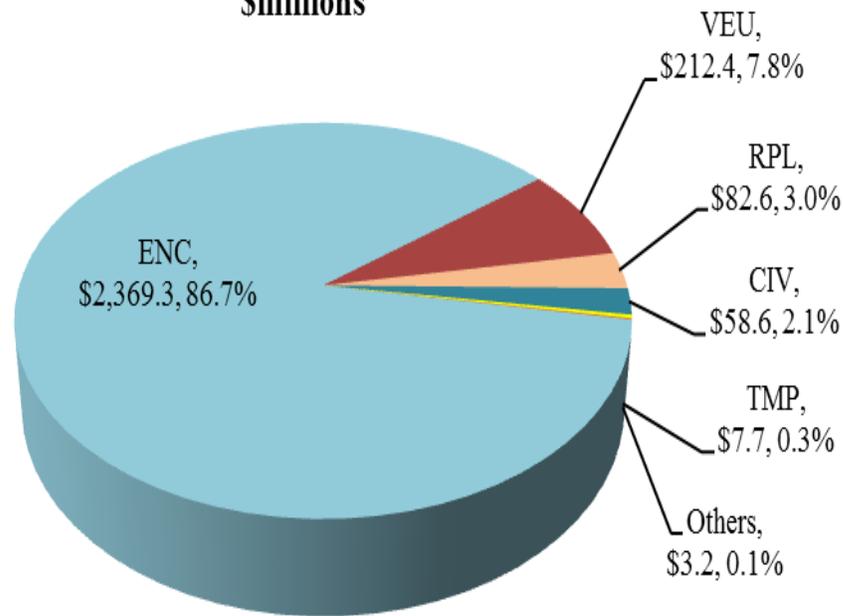
Of the \$124.0 billion in U.S. exports to China in 2014, only 0.4% required a BIS license.

Of the \$22.1 billion in U.S. exports of items listed on the Commerce Control List<sup>3</sup> (CCL) to China, 2.3% required a BIS license in 2014.

Of the \$3.2 billion in U.S. exports subject to a BIS license requirement to China in 2014, 84.6% were exported under a BIS license exception.

In 2014, exports to China shipped under a BIS license exception valued \$2.7 billion, of which, \$2.4 billion (86.7% of the total) included Encryption commodities, Software and Technology (ENC), followed by Validated End User Authorization (VEU) at \$212.4 million, 7.8% of the total.

**2014 U.S. Exports to China by BIS License Exception**  
**Smillions**



ENC	Encryption Commodities, Software and Technology
VEU	Validated End Users
RPL	Servicing and Replacement of Parts and Equipment
CIV	Civil End Users
TMP	Temporary Imports, Exports, Re-exports, and Transfer (in-country)

<sup>3</sup> Items listed on the CCL include licensed, license exceptions and NLR with an ECCN.

### III. 2014 Trends in Exports by ECCN and License Designation<sup>4</sup>

#### *Top Four Exports by ECCNs to China by Value – Licensed (\$millions)*

ECCN	Description	Value
3B001	Equipment for the manufacturing of semiconductor devices or materials	\$208.6
3A233	Mass spectrometers	\$42.5
2B001	Machine tools	\$27.2
3C003	Organo-inorganic compounds	\$23.7

#### *Top Four Exports by ECCNs to China by Record Count – Licensed*

ECCN	Description	Record Count
3B001	Equipment for the manufacturing of semiconductor devices or materials	1,874
2B230	Pressure transducers	933
2B350	Chemical manufacturing facilities and equipment	562
3A233	Mass spectrometers	353

#### *Top Four Exports by ECCNs to China by Value– License Exception (\$millions)*

ECCN	Description	Value
5A002	"Information security" systems, equipment and components	\$2,326.4
3B001	Equipment for the manufacturing of semiconductor devices or materials	\$241.3
9A991	Aircraft and gas turbine engines	\$73.0
5D002	Software for information security	\$29.3

#### *Top Four Exports by ECCNs to China by Value – NLR (\$millions)*

ECCN	Description	Value
9A991	Aircraft and gas turbine engines	\$12,656.6
5A992	Low-level information security systems and equipment	\$1,836.3
5A991	Telecommunication equipment	\$1,064.2
3B991	Equipment not controlled by 3B001 for the manufacture of electronic components and materials	\$493.8

<sup>4</sup> Source: AES, retrieved on February 13, 2015.

#### IV. Analysis of U.S.-China Trade in Advanced Technology Products (ATP)<sup>5</sup>

**U.S. ATP Trade with China 2009 - 2014**  
Smillions



In 2014, U.S. ATP exports to China valued \$30.8 billion, a 6.0% (\$1.7 billion) increase from 2013; U.S. ATP imports from China were \$154.6 billion, a 5.9% (\$8.6 billion) increase; and the trade deficit was \$123.7 billion, a 5.9% (\$6.9 billion) increase.

ATP Exports to China (\$millions)								
ATP Category	2009	2010	2011	2012	2013	2014	% of the Total	% change from 2013
Biotechnology	124	168	206	284	399	497	1.6%	24.6%
Life Science	1,591	1,967	2,316	2,782	3,017	3,111	10.1%	3.1%
Opto-Electronics	204	463	326	328	401	392	1.3%	-2.2%
Information & Communications	3,570	4,041	3,801	3,920	4,681	4,619	15.0%	-1.3%
Electronics	5,283	6,491	4,730	4,004	4,840	5,549	18.0%	14.6%
Flexible Manufacturing	786	2,286	2,049	1,995	2,649	2,436	7.9%	-8.0%
Advanced Materials	254	214	219	294	181	177	0.6%	-2.2%
Aerospace	5,356	5,787	6,418	8,440	12,638	13,977	45.3%	10.6%
Nuclear Technology	34	37	74	109	243	67	0.2%	-72.4%
Grand Total	17,202	21,454	20,139	22,157	29,051	30,827	100.0%	6.1%

In 2014, the largest categories of U.S. ATP exports to China were comprised of Aerospace at \$14.0 billion, 45.3% of the total ATP exports; Electronics at \$5.5 billion, 18.0% of the total; and Information and Communications at \$4.6 billion, 15.0% of the total.

Compared with 2013, there were increases of 24.3% in Biotechnology and 10.3% in Aerospace; there were decreases of 72.4% in Nuclear Technology exports.

In 2014, 24.9% (\$30.8 billion) of U.S. exports to China were considered ATP items. Of these, 0.8% required a BIS license.

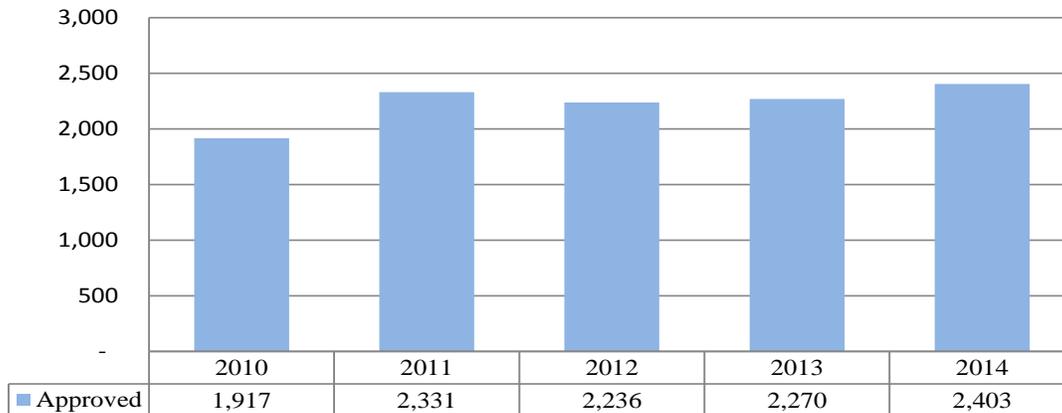
Of the \$2.8 billion in U.S. ATP exports subject to a BIS license requirement to China in 2014, 91.1% were exported under a license exception.

<sup>5</sup> Source: U.S. Census Bureau Trade Statistics, retrieved on February 6, 2015.

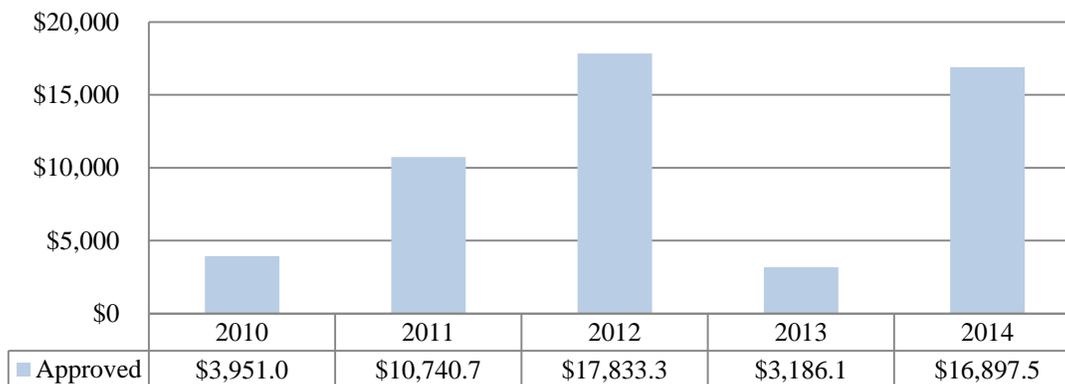
Advanced Technology Products: about 500 of some 22,000 commodity classification codes contain products from a recognized high technology category (e.g., biotechnology).

V. 2014 Trends in China Licensing<sup>6</sup>

**Licenses for Tangible Items, Software and Technology for China  
by Count 2010-2014**



**Licenses for Tangible Items, Software and Technology for China  
by Value 2010-2014  
\$millions**



Note: Figures above do not include deemed export applications.

In 2014, BIS reviewed 3,084 export/re-export applications (not including deemed export applications) valued at \$18.3 billion for China, out of a total of 31,458 applications worldwide valued at \$811.4 billion.

- Approved applications for China totaled 2,403 (77.9% of the total applications) for \$16.9 billion, compared to the 25,935 (82.4%) approved applications valued at \$719.7 billion for all destinations.

In 2014, BIS reviewed 661 deemed export applications for China, compared to 1,077 for all destinations.

- Approved deemed export applications for China totaled 644, compared to 978 approved worldwide.

<sup>6</sup> Source: Commerce U.S. Exporter Support System, retrieved on February 20, 2015.