

Part B: NOT Seasonally Adjusted

Exhibit 16a. U.S. Trade in Advanced Technology Products by Technology Group and Selected Countries and Areas

In millions of dollars. Details may not equal totals due to rounding. (-) Represents zero or less than one-half of measurement shown.

Technology Group	2019									2018		
	July			June			Year-to-Date			Year-to-Date		
	Balance	Exports	Imports	Balance	Exports	Imports	Balance	Exports	Imports	Balance	Exports	Imports
Total	-11,318	29,670	40,988	-10,474	30,645	41,119	-67,819	209,323	277,142	-66,758	210,160	276,918
Advanced Materials	16	260	244	8	250	242	62	1,825	1,763	-112	1,736	1,848
Aerospace (1)	5,895	11,031	5,136	6,935	12,279	5,345	42,861	78,891	36,030	47,373	77,851	30,477
Biotechnology	-1,346	2,637	3,984	-1,806	1,808	3,614	-10,566	14,748	25,314	-8,631	12,631	21,262
Electronics	603	3,946	3,342	651	3,991	3,341	3,527	26,816	23,289	1,220	26,579	25,359
Flexible Manufacturing	-193	1,346	1,539	-198	1,392	1,591	-22	9,788	9,810	4,584	12,733	8,148
Information and Communications (1)	-12,568	7,185	19,753	-12,968	7,573	20,541	-82,080	53,778	135,859	-94,403	54,894	149,298
Life Science	-2,329	2,462	4,791	-1,619	2,705	4,324	-13,296	18,066	31,363	-11,216	17,709	28,925
Nuclear Technology	-110	57	167	-129	58	187	-627	584	1,211	-468	483	951
Opto-Electronics (1)	-1,600	331	1,930	-1,435	423	1,858	-9,178	2,788	11,966	-6,898	3,177	10,075
Weapons	314	415	101	87	165	78	1,503	2,040	537	1,794	2,369	575

Selected Countries and Areas	2019									2018		
	July			June			Year-to-Date			Year-to-Date		
	Balance	Exports	Imports	Balance	Exports	Imports	Balance	Exports	Imports	Balance	Exports	Imports
Total	-11,318	29,670	40,988	-10,474	30,645	41,119	-67,819	209,323	277,142	-66,758	210,160	276,918
North America	-245	5,974	6,218	-829	5,838	6,667	-423	42,859	43,282	1,326	43,583	42,257
Canada	1,258	2,448	1,189	745	2,452	1,706	8,930	18,488	9,558	10,510	18,809	8,299
Mexico	-1,503	3,526	5,029	-1,574	3,386	4,960	-9,353	24,371	33,724	-9,184	24,774	33,958
European Union	-1,884	7,671	9,555	-1,518	7,786	9,303	-10,164	55,796	65,960	-2,439	55,379	57,818
France	-316	1,203	1,519	57	1,507	1,450	-511	10,343	10,854	1,952	9,706	7,754
Germany	-1,309	1,283	2,592	-240	1,446	1,686	-2,894	11,237	14,130	-2,892	10,510	13,401
Ireland	-1,795	261	2,056	-2,023	243	2,265	-14,996	1,769	16,766	-13,249	3,152	16,402
Italy	-119	321	440	-3	405	407	-74	2,996	3,070	104	3,281	3,177
United Kingdom	372	1,401	1,029	284	1,286	1,002	2,696	9,510	6,814	5,308	10,743	5,434
Other	1,282	3,202	1,919	406	2,900	2,494	5,615	19,940	14,325	6,337	17,987	11,650
Pacific Rim Countries	-11,383	9,523	20,906	-11,534	9,851	21,385	-71,128	67,296	138,425	-82,905	70,684	153,589
Australia	140	391	251	267	450	183	1,409	2,739	1,330	2,123	3,283	1,160
China	-8,576	2,713	11,289	-9,804	2,667	12,471	-55,290	19,879	75,169	-74,812	20,266	95,077
Hong Kong	821	851	30	1,024	1,053	30	6,646	6,864	218	6,717	7,188	471
Indonesia	-26	58	84	-29	60	89	-255	320	574	-68	415	483
Japan	-448	1,975	2,423	-633	1,465	2,097	-3,500	10,939	14,439	-1,987	10,905	12,892
Korea, South	-321	831	1,151	-90	1,194	1,284	-3,726	7,074	10,800	-1,629	8,643	10,272
Malaysia	-1,570	464	2,034	-1,506	506	2,011	-10,296	3,206	13,502	-11,197	3,832	15,029
Philippines	-224	256	481	-221	248	470	-1,276	1,821	3,097	-1,260	1,743	3,003
Singapore	-260	882	1,142	189	1,149	960	884	7,035	6,150	1,624	7,853	6,229
Taiwan	-1,005	995	2,000	-846	924	1,771	-6,579	6,440	13,019	-3,130	5,720	8,850
Other	86	107	21	115	134	19	854	981	127	715	837	122
South/Central America	1,534	2,037	503	1,842	2,203	361	12,545	15,226	2,680	12,107	14,420	2,313
Brazil	703	982	278	731	892	161	5,385	6,735	1,351	4,797	5,879	1,082
Other	831	1,055	225	1,111	1,311	200	7,161	8,490	1,330	7,310	8,541	1,231
Other Countries	660	4,465	3,805	1,564	4,967	3,403	1,351	28,146	26,795	5,153	26,094	20,941
India	358	623	265	406	633	227	1,480	2,972	1,492	1,481	2,748	1,267
Israel	46	378	332	28	374	347	-50	2,189	2,240	252	2,200	1,948
Thailand	-676	234	910	-654	211	864	-4,316	1,676	5,992	-4,781	1,989	6,770
Other	931	3,229	2,299	1,784	3,749	1,965	4,237	21,309	17,072	8,202	19,157	10,955

(1) Export statistics for certain commodity classifications related to the aircraft industry are subject to suppression and have been aggregated in a manner that prevents the disclosure of confidential information. As a result, Advanced Technology Product exports are overstated by \$552 million in July 2019. For additional information, see www.census.gov/foreign-trade/statistics/notices/aircraft/.

NOTE: Data are not available on a BOP basis. For information on data sources, nonsampling errors, and definitions, see the explanatory notes in this release or at www.census.gov/ft900 or www.bea.gov/data/intl-trade-investment/international-trade-goods-and-services.