

TABLE S6-18

Exports and imports of KTI products, by region, country, or economy: 2003–18

(Millions of current dollars)

Region, country, or economy	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Exports																
World	3,682,046	4,381,819	4,759,861	5,476,986	6,327,168	6,882,108	5,467,569	6,582,677	7,491,711	7,499,624	7,707,579	7,955,273	7,377,737	7,318,792	8,058,857	8,587,777
North America	682,686	724,253	791,863	958,898	1,038,112	1,092,118	811,948	995,146	1,103,316	1,161,313	1,173,856	1,219,851	1,190,195	1,154,174	1,208,122	1,271,837
Canada	116,412	132,666	146,036	154,486	164,118	153,984	114,289	136,887	151,913	159,442	155,629	159,694	156,394	154,222	153,638	159,903
Mexico	102,398	114,167	125,395	147,666	153,643	169,691	138,472	182,812	203,393	222,737	234,571	254,465	257,876	252,920	276,311	302,657
United States	463,877	477,420	520,433	656,746	720,352	768,444	559,187	675,447	748,009	779,135	783,657	805,691	775,924	747,032	778,173	809,276
Central and South America	35,093	47,966	59,828	68,172	77,118	91,249	64,943	81,668	97,899	97,635	102,253	88,280	78,370	78,145	84,641	86,990
Brazil	21,604	30,264	38,133	43,003	47,373	54,923	37,328	46,296	54,385	53,776	58,885	46,819	43,251	46,282	49,838	53,320
Other South America	13,489	17,702	21,694	25,169	29,745	36,325	27,615	35,372	43,514	43,859	43,368	41,461	35,119	31,864	34,803	33,670
Europe	1,813,698	2,171,954	2,351,330	2,662,515	3,064,109	3,333,831	2,602,041	2,922,902	3,391,267	3,247,513	3,396,782	3,498,982	3,142,633	3,183,234	3,474,972	3,670,623
EU	1,699,546	2,031,842	2,198,432	2,485,739	2,847,728	3,073,400	2,396,781	2,693,970	3,116,947	2,966,200	3,110,915	3,209,308	2,877,746	2,920,483	3,186,279	3,359,220
France	212,219	244,716	254,250	277,511	308,196	334,179	267,148	296,645	327,549	317,769	323,919	323,891	287,476	288,845	310,434	336,351
Germany	480,102	583,593	640,896	723,989	832,571	912,609	693,151	793,015	933,516	900,440	927,131	961,597	865,750	872,803	955,498	1,023,769
United Kingdom	173,008	191,942	212,137	265,835	232,637	231,981	170,326	206,481	233,883	228,605	232,152	257,715	245,504	234,405	244,669	252,759
Other EU	834,217	1,011,591	1,091,150	1,218,403	1,474,324	1,594,631	1,266,156	1,397,830	1,622,000	1,519,386	1,627,713	1,666,105	1,479,017	1,524,430	1,675,678	1,746,341
Other Europe	114,152	140,113	152,897	176,777	216,381	260,430	205,260	228,932	274,319	281,313	285,868	289,674	264,886	262,751	288,693	311,403
Middle East	30,761	38,904	50,405	58,934	71,683	94,943	91,966	105,983	125,094	172,695	185,055	191,201	135,106	124,140	168,774	118,985
Asia	1,104,632	1,381,599	1,486,935	1,708,564	2,052,441	2,243,988	1,875,983	2,453,060	2,746,902	2,791,836	2,822,795	2,930,735	2,807,744	2,755,412	3,098,464	3,414,081
China	224,497	309,473	393,984	492,916	616,870	734,192	630,884	832,703	966,711	1,006,277	1,046,073	1,131,056	1,112,836	1,062,585	1,196,151	1,344,673
India	12,610	16,657	22,390	27,800	33,283	45,663	46,106	56,161	73,956	74,970	86,541	86,735	80,286	81,089	91,088	108,297
Indonesia	13,230	15,606	18,167	19,336	21,746	24,363	22,022	27,936	33,499	33,607	33,307	33,226	28,459	29,609	31,468	34,055
Japan	361,672	428,498	443,211	478,985	526,688	563,901	409,211	550,007	580,870	570,598	504,076	487,092	442,567	461,925	495,660	525,116
Malaysia	65,394	76,758	85,146	93,680	97,246	78,161	83,457	100,892	104,241	102,475	103,477	108,466	99,911	97,876	112,396	132,323
Philippines	27,557	30,664	31,301	33,783	36,340	34,276	27,716	24,483	21,983	33,328	34,301	38,319	40,186	38,236	47,243	47,491
Singapore	118,120	145,250	93,518	105,711	199,794	205,351	171,926	222,036	242,229	243,346	245,373	245,687	229,379	221,756	238,478	258,710
South Korea	139,801	186,859	210,562	239,674	275,034	300,877	268,513	344,540	390,242	378,826	399,515	410,338	393,568	369,074	428,113	444,013
Taiwan	96,906	115,932	123,050	138,210	151,573	152,914	126,954	174,022	193,591	187,107	193,309	203,365	190,067	190,994	219,532	230,566
Thailand	40,675	50,012	58,531	69,290	81,470	88,695	74,951	100,012	109,403	116,972	120,748	123,839	117,062	118,613	130,870	140,001
Vietnam	2,108	3,009	3,716	5,027	6,682	8,927	8,808	13,536	21,981	34,808	47,206	53,268	65,095	75,070	98,392	139,106
Other Asia	2,063	2,882	3,357	4,151	5,715	6,668	5,435	6,731	8,196	9,520	8,870	9,344	8,328	8,588	9,073	9,730
Oceania	15,175	17,144	19,501	19,902	23,705	25,979	20,687	23,917	27,234	28,633	26,837	26,224	23,689	23,686	23,884	25,261
Australia	11,978	13,411	15,627	15,801	19,184	21,122	16,767	19,755	22,297	23,568	21,942	21,157	18,877	19,111	19,279	20,662
New Zealand	3,197	3,732	3,874	4,102	4,521	4,857	3,920	4,162	4,937	5,065	4,895	5,067	4,812	4,575	4,605	4,599
Imports																
World	3,703,624	4,469,760	4,880,034	5,504,770	6,333,692	6,895,537	5,507,083	6,677,689	7,621,829	7,652,564	7,864,312	8,093,094	7,580,769	7,669,407	8,416,032	9,046,200
North America	899,100	1,022,650	1,127,662	1,245,019	1,306,565	1,336,377	1,072,908	1,322,267	1,479,871	1,580,572	1,608,765	1,686,693	1,719,712	1,693,472	1,798,766	1,936,516

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Exports and imports of KTI products, by region, country, or economy: 2003–18

(Millions of current dollars)

Region, country, or economy	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Canada	141,738	158,417	178,039	196,414	211,180	212,874	170,245	207,303	231,678	242,152	243,453	244,673	231,921	225,689	241,819	254,837
Mexico	103,413	120,199	134,039	154,961	157,197	178,704	142,447	181,852	204,487	219,735	230,079	240,082	242,694	238,048	250,266	271,567
United States	653,949	744,034	815,585	893,644	938,187	944,799	760,216	933,112	1,043,706	1,118,686	1,135,233	1,201,939	1,245,097	1,229,734	1,306,682	1,410,112
Central and South America	78,339	104,230	132,770	158,546	191,571	264,750	206,019	269,029	333,808	342,947	348,244	326,015	283,998	245,723	263,567	290,441
Brazil	29,097	37,087	43,591	52,191	61,604	99,055	78,405	107,153	130,838	130,061	138,692	130,800	103,908	86,996	90,474	111,943
Other South America	49,242	67,144	89,179	106,354	129,967	165,695	127,613	161,876	202,970	212,886	209,552	195,214	180,090	158,727	173,093	178,498
Europe	1,667,979	2,026,985	2,200,399	2,506,930	2,928,323	3,175,085	2,395,962	2,759,088	3,177,279	2,970,182	3,074,194	3,172,083	2,850,239	2,918,901	3,217,383	3,388,499
EU	1,514,844	1,828,732	1,961,417	2,215,987	2,550,012	2,717,437	2,084,605	2,379,443	2,696,865	2,474,918	2,570,089	2,694,702	2,465,384	2,523,980	2,762,360	2,923,904
France	186,662	221,189	237,539	258,592	300,311	324,649	266,023	295,229	341,636	316,401	318,916	318,867	288,060	297,396	318,339	333,113
Germany	292,025	347,546	389,805	456,017	490,162	538,448	439,745	507,095	586,479	542,149	552,176	580,240	529,432	537,719	603,043	660,122
United Kingdom	212,313	251,784	256,650	293,886	311,690	294,976	196,734	267,833	295,418	270,733	282,970	327,966	313,533	305,647	312,036	319,750
Other EU	823,845	1,008,214	1,077,423	1,207,491	1,447,849	1,559,364	1,182,103	1,309,286	1,473,331	1,345,635	1,416,027	1,467,629	1,334,360	1,383,218	1,528,942	1,610,918
Other Europe	153,135	198,253	238,983	290,943	378,311	457,649	311,357	379,645	480,414	495,264	504,105	477,382	384,854	394,920	455,023	464,595
Middle East	92,730	114,938	130,227	135,437	194,597	241,762	209,621	222,426	253,428	309,186	334,747	360,270	307,616	286,138	408,700	367,299
Asia	903,964	1,125,202	1,204,176	1,370,169	1,608,230	1,760,282	1,527,161	1,987,676	2,246,124	2,304,565	2,365,013	2,415,953	2,297,488	2,405,019	2,586,377	2,921,626
China	320,538	411,181	461,791	539,101	622,355	662,951	605,712	812,610	924,552	931,076	989,131	1,025,738	950,900	1,045,171	1,061,236	1,207,510
India	22,104	29,623	42,615	57,891	69,763	100,547	87,224	100,132	121,065	125,896	122,948	125,407	129,888	127,740	148,820	209,790
Indonesia	13,978	19,931	23,458	24,292	29,385	59,069	47,886	64,143	78,787	87,758	80,921	75,928	67,389	65,326	72,796	87,205
Japan	140,882	165,605	178,380	193,060	204,946	222,576	183,483	232,011	264,303	275,216	264,509	268,841	249,292	253,361	269,921	294,840
Malaysia	57,844	70,142	75,299	83,300	90,420	79,549	75,560	97,896	103,213	105,580	108,166	109,317	95,791	95,097	108,037	119,344
Philippines	29,337	31,091	32,346	34,549	36,189	33,229	26,209	33,312	25,032	34,521	35,003	35,357	41,837	51,214	57,837	64,377
Singapore	89,475	113,650	71,116	84,945	155,351	166,766	133,351	166,855	177,674	183,481	183,691	180,253	166,666	165,584	180,276	203,690
South Korea	81,451	98,962	110,156	123,734	143,651	155,576	131,937	169,993	187,361	181,162	187,093	195,160	195,210	191,539	219,717	229,553
Taiwan	75,811	96,761	102,147	108,319	111,327	109,853	89,252	130,116	139,861	128,946	131,909	135,194	126,634	132,729	146,113	158,309
Thailand	41,668	49,274	57,353	60,398	66,586	77,039	63,911	85,043	99,520	115,984	111,389	104,387	99,365	99,253	107,863	115,348
Vietnam	11,645	13,516	14,711	17,371	26,522	33,147	32,586	37,732	47,154	55,637	68,189	75,315	91,073	96,979	120,857	132,970
Other Asia	19,231	25,467	34,805	43,207	51,736	59,979	50,048	57,834	77,603	79,307	82,064	85,055	83,442	81,027	92,905	98,689
Oceania	61,511	75,755	84,799	88,669	104,406	117,280	95,414	117,204	131,319	145,112	133,349	132,080	121,717	120,154	141,239	141,820
Australia	51,459	63,213	70,841	75,552	89,049	101,320	83,251	103,159	114,842	127,476	114,632	111,001	102,747	101,194	120,016	119,586
New Zealand	10,052	12,542	13,958	13,117	15,356	15,960	12,163	14,045	16,476	17,636	18,717	21,079	18,970	18,960	21,223	22,233

EU = European Union; KTI = knowledge and technology intensive.

Note(s):

KTI products include high R&D intensive and medium-high R&D intensive products classified by the Organisation for Economic Co-operation and Development. High R&D intensive products include aircraft; pharmaceuticals; and computer, electronic, and optical products. Medium-high R&D intensive products include weapons and ammunition; motor vehicles; medical and dental instruments; machinery and equipment; chemicals and chemical products; electrical equipment; and railroad, military vehicles, and transport. Detail may not add to total because of rounding or minor discrepancies. World exports do not equal imports because of statistical errors in the reporting of trade data and the lack of trade data on sub-Saharan African countries. World total does not include all countries and economies due to limitations in data availability. China includes Hong Kong. China data exclude bilateral flows between mainland China and Hong Kong. See Table S6-17 for a full list of countries and economies in each region.

Source(s):

Oxford Economics, special tabulations (2019) of Global Trade Databank.

Science and Engineering Indicators