

## APPENDIX TABLE 6-14

**Value added of semiconductor industry, by region, country, or economy: 2001–16**

(Millions of current dollars)

Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
World	177,305	188,975	222,029	249,065	260,912	283,339	299,319	303,543	263,684	348,325	340,584	359,548	375,892	396,140	385,046	383,252
North America																
Canada	1,091	833	1,248	1,360	1,279	1,404	1,164	1,099	971	1,176	1,212	1,112	1,027	1,084	783	755
Mexico	2,072	1,746	1,496	1,606	1,673	1,901	1,953	1,817	1,685	1,859	1,965	2,098	2,060	2,247	2,593	2,246
United States	50,507	53,995	63,003	65,309	69,868	68,607	70,786	73,703	68,429	86,402	91,316	86,347	84,844	86,914	89,141	82,915
Central and South America																
Argentina	11	3	5	9	12	13	15	18	16	23	32	34	33	30	27	22
Bolivia	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Brazil	528	495	380	523	506	936	794	854	446	669	841	761	700	627	356	303
Chile	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Colombia	1	1	1	1	2	2	10	4	7	10	5	6	7	8	6	5
Costa Rica	11	10	11	13	14	16	19	21	19	24	27	29	31	30	29	28
Ecuador	8	8	9	9	9	9	9	11	13	13	14	16	17	21	21	19
Honduras	2	2	2	2	2	3	3	3	3	3	3	4	3	4	4	4
Panama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peru	7	16	22	29	33	38	44	54	42	56	53	74	82	77	68	64



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Uruguay	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Venezuela	116	80	74	98	121	143	177	271	316	190	234	279	264	213	347	68
Europe																
EU	18,519	19,255	21,993	27,543	26,903	28,264	32,322	31,197	23,394	25,128	24,752	20,816	21,511	22,212	18,757	18,328
Austria	977	943	1,054	1,236	1,360	1,523	968	981	796	979	971	892	955	961	846	904
Belgium	601	601	701	700	703	737	761	728	573	416	433	391	373	362	306	297
Bulgaria	15	12	29	21	29	33	48	56	24	35	46	49	31	33	27	27
Czech Republic	146	191	216	268	323	374	439	469	265	293	302	211	239	280	240	237
Denmark	288	381	358	339	335	358	500	410	345	374	374	365	331	337	316	308
Finland	2,337	2,951	3,492	3,661	3,774	4,131	5,338	4,943	2,180	2,144	1,531	1,268	1,305	1,295	1,123	1,087
France	2,839	2,928	2,983	3,362	3,098	2,947	3,145	3,071	2,801	2,448	2,531	1,767	2,063	1,993	1,443	1,386
Germany	3,902	4,307	5,658	7,170	6,670	7,121	9,229	8,458	6,448	7,267	8,450	7,013	7,304	8,011	6,410	6,353
Greece	45	47	51	43	34	35	40	49	35	38	34	42	31	19	17	16
Hungary	297	365	606	838	976	978	867	980	790	907	829	577	539	534	499	513
Ireland	640	478	589	791	743	1,099	1,016	890	600	416	302	338	224	226	377	449
Italy	2,127	2,150	2,925	3,357	3,375	3,315	3,743	3,817	3,433	3,782	2,706	1,768	2,008	2,220	1,810	1,863
Netherlands	529	320	323	359	405	304	363	337	300	350	398	378	371	378	354	352
Poland	161	167	188	243	317	299	384	425	355	367	453	479	469	488	383	365
Portugal	132	150	185	215	259	265	308	304	67	70	55	71	73	61	36	34

Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Romania	60	58	68	92	68	92	143	174	122	144	164	211	196	207	174	155
Slovakia	28	35	57	78	98	125	182	221	134	211	130	123	127	140	117	116
Spain	476	534	593	634	497	547	691	612	487	512	457	378	375	397	380	395
Sweden	200	466	571	1,962	1,817	1,987	2,042	1,984	1,731	2,251	2,405	2,211	2,136	1,935	1,853	1,773
United Kingdom	2,719	2,171	1,346	2,173	2,022	1,993	2,116	2,287	1,908	2,126	2,182	2,284	2,364	2,336	2,045	1,700
Other Europe																
Norway	216	191	253	239	265	258	347	353	281	286	304	295	301	294	265	224
Russia	74	135	201	371	495	652	991	1,180	872	1,013	1,385	1,320	1,654	1,753	1,284	1,244
Switzerland	902	977	1,139	1,271	1,298	1,354	1,498	1,732	1,482	1,448	1,660	1,529	1,583	1,543	1,372	1,198
Turkey	48	11	42	64	117	60	41	50	22	67	90	102	104	107	95	88
Ukraine	17	20	18	26	26	31	40	48	22	27	30	27	25	13	2	3
Middle East																
Bahrain	10	10	11	12	16	22	28	36	29	33	38	40	43	44	37	35
Iran	4	8	16	13	11	12	12	14	17	16	24	18	13	15	14	15
Israel	2,149	1,580	1,614	1,610	1,781	1,809	2,007	1,787	2,318	2,251	2,086	4,054	3,727	3,683	2,546	2,142
Jordan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kuwait	1	1	1	2	2	1	1	2	2	2	3	4	5	4	2	2
Oman	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
Qatar	0	0	0	0	0	1	2	1	1	6	8	10	10	10	10	9



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Saudi Arabia	10	11	15	17	22	26	31	33	35	48	57	62	63	72	53	45
United Arab Emirates	5	5	5	6	6	7	8	9	8	8	10	11	11	11	10	10
Africa																
Cameroon	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1
Egypt	1	1	1	1	1	2	2	3	3	4	4	5	6	7	9	8
Ghana	2	2	2	2	3	3	4	4	3	3	4	4	4	4	3	3
Kenya	9	9	10	12	14	8	19	21	22	24	29	29	30	31	32	32
Morocco	138	157	189	225	295	313	287	266	289	323	413	305	384	375	335	305
Nigeria	3	5	6	8	12	19	24	34	30	42	59	73	101	124	107	80
Senegal	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
South Africa	16	15	24	30	30	27	27	24	23	25	24	28	27	30	25	21
Tunisia	29	23	31	33	41	50	65	93	89	123	107	104	106	103	87	78
Asia																
Bangladesh	21	20	20	19	19	18	17	19	23	26	25	26	28	33	46	51
China	14,758	16,891	20,600	24,801	27,534	35,003	40,773	49,977	47,141	67,257	77,277	85,731	98,582	111,492	118,959	120,030
India	304	342	406	361	530	614	789	799	1,066	951	1,008	731	540	265	208	201
Indonesia	396	866	990	1,002	782	1,181	1,827	2,065	1,956	1,768	1,748	1,739	2,633	2,632	2,544	2,632
Japan	53,260	52,702	61,436	62,498	62,181	65,362	62,225	57,060	43,334	63,692	38,157	51,439	37,944	33,375	25,934	32,115
Malaysia	3,874	3,207	3,767	4,546	4,269	4,381	5,345	5,121	3,942	5,589	6,685	7,781	9,648	10,246	8,790	8,851



Region, country, or economy	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Pakistan	5	6	8	11	13	2	2	3	2	3	3	3	3	4	4	4
Philippines	629	770	651	774	802	969	1,376	751	841	915	898	950	1,027	1,090	1,122	1,023
Singapore	2,355	2,832	3,665	4,677	5,532	7,095	7,577	6,625	5,750	9,446	8,125	8,158	8,853	8,664	6,595	7,441
South Korea	9,281	11,142	13,053	18,817	20,472	23,007	24,334	21,340	19,064	28,577	31,461	32,346	40,707	39,729	39,500	38,955
Sri Lanka	5	6	7	7	10	62	31	17	17	18	21	21	24	29	30	29
Taiwan	13,961	17,448	21,880	27,195	29,777	34,865	36,341	38,467	33,343	40,358	40,864	44,080	49,874	59,304	56,793	55,646
Thailand	1,699	2,817	3,348	3,425	3,570	4,181	5,159	5,746	5,492	7,363	6,173	5,308	5,525	5,839	4,644	4,572
Vietnam	54	65	67	77	92	124	190	202	252	322	468	640	805	886	766	743
Australia and Oceania																
Australia	153	209	248	337	385	404	479	497	478	610	740	866	786	721	574	551
New Zealand	43	45	61	73	85	79	120	110	93	125	132	129	130	135	112	108

EU = European Union.

**Note(s)**

Value added is the amount contributed by a country, firm, or other entity to the value of a good or service and excludes purchases of domestic and imported materials and inputs. Data are not available for EU members Cyprus, Estonia, Latvia, Lithuania, Luxembourg, Malta, and Slovenia. China includes Hong Kong. Detail may not add to total because of rounding or minor discrepancies. See Appendix Table 6-1 for a full list of countries and economies in each region.

**Source(s)**

IHS Global Insight, World Industry Service database, accessed 17 July 2017.

*Science and Engineering Indicators 2018*