

U.S. receipts and payments of royalties and license fees generated from exchange and use of industrial processes with unaffiliated foreign companies, by region or country/economy: 1987-2001

(Millions of U.S. dollars)

Region or country/economy	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Receipts															
All countries/economies.....	1,678	1,962	2,051	2,333	2,434	2,525	2,820	3,026	3,513	3,566	3,544	3,499	3,900	4,705	4,852
Canada.....	87	60	62	79	62	47	41	54	55	82	92	82	118	159	151
Europe	446	517	530	630	575	637	642	768	829	1,042	979	1,170	1,416	1,446	1,493
Eastern Europe ^a	7	32	12	15	8	D	16	30	21	11	7	14	34	5	9
European Union ^b	353	410	378	500	475	498	496	598	756	937	885	1,071	1,283	1,314	1,350
Belgium-Luxembourg.....	29	37	34	22	34	25	49	88	83	90	57	72	102	126	100
France	73	82	52	78	91	64	89	107	84	123	92	142	226	153	203
Germany ^c	79	73	77	107	97	108	109	142	171	219	184	243	297	373	368
Italy.....	57	73	68	105	70	99	69	71	66	66	77	53	117	106	106
Netherlands	31	40	37	59	35	60	27	30	36	80	71	59	45	54	49
Spain	13	26	20	21	29	20	23	18	31	28	29	27	18	14	19
Sweden ^b	31	19	53	44	35	48	53	55	106	137	115	148	100	85	52
United Kingdom	60	67	81	91	106	103	103	113	115	129	147	154	216	156	178
Norway	10	10	32	10	14	5	3	15	5	3	4	3	2	2	3
Switzerland	16	14	23	24	15	50	45	44	41	84	76	77	94	122	129
All others.....	29	32	32	37	28	36	29	26	6	7	7	5	3	5	2
South/Central America.....	64	48	54	59	85	73	D	83	D	D	81	109	96	85	99
Brazil	19	7	14	8	8	6	7	8	9	14	17	17	10	D	D
Mexico	14	13	18	23	31	29	28	33	24	26	32	40	36	22	30
All others.....	31	28	22	28	46	38	D	42	D	D	11	D	50	17	D
Africa	D	22	24	22	34	27	36	26	35	28	15	17	19	14	17
Middle East	D	18	17	22	25	21	33	20	35	25	41	20	50	81	52
Asia and Pacific.....	936	1,185	1,248	1,465	1,638	1,704	1,966	2,063	2,462	2,299	2,299	2,094	2,188	2,910	3,029
China	NA	NA	NA	NA	NA	NA	NA	33	31	43	52	47	32	44	45
Hong Kong	4	6	7	6	6	11	12	15	22	19	21	23	12	12	14
India.....	18	40	26	21	14	34	D	28	27	37	29	20	17	23	20
Indonesia	5	5	8	11	20	13	20	20	15	13	26	11	21	15	9
Japan.....	723	883	897	1,028	1,219	1,268	1,434	1,372	1,548	1,429	1,508	1,172	1,161	1,636	1,879
Malaysia	—	—	2	2	2	7	18	19	D	D	12	43	12	10	11
Philippines	3	4	4	4	2	3	D	1	2	2	7	8	7	7	4
Singapore	30	13	8	19	21	20	20	73	34	37	39	37	37	20	16
South Korea	34	107	167	249	225	220	278	396	607	478	389	483	650	896	742
Taiwan	21	46	34	55	57	42	34	39	80	130	144	192	187	196	229
All others ^d	98	81	95	70	72	86	D	67	96	D	1	58	52	3	60
All other countries	145	112	116	56	15	16	102	12	97	90	37	7	13	34	11
Payments															
All countries/economies.....	459	525	612	665	796	818	1,054	1,034	948	1,319	1,417	1,319	1,568	1,695	1,815
Canada.....	9	11	8	16	11	10	8	11	13	66	89	82	136	117	118
Europe	320	355	433	482	637	635	820	712	572	782	729	705	766	908	1,115
Eastern Europe ^a	—	—	1	D	1	3	9	D	1	4	2	—	D	1	8
European Union ^b	248	279	342	360	426	417	472	395	461	649	558	555	578	695	829
Belgium-Luxembourg.....	5	7	10	15	14	21	22	27	30	D	30	29	31	29	30
France	33	37	51	54	73	D	92	92	121	192	D	D	D	133	D

U.S. receipts and payments of royalties and license fees generated from exchange and use of industrial processes with unaffiliated foreign companies, by region or country/economy: 1987-2001

(Millions of U.S. dollars)

Region or country/economy	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Germany ^c	100	112	137	133	182	D	187	113	110	148	149	124	148	211	263
Italy.....	25	20	22	29	34	24	9	7	9	49	35	18	6	12	11
Netherlands	5	5	8	9	14	14	15	22	27	24	30	33	37	33	30
Spain	—	—	1	1	—	1	1	—	1	1	1	3	D	D	D
Sweden ^b	D	D	D	62	122	D	198	D	3	49	61	55	57	69	54
United Kingdom	72	90	102	111	106	125	123	104	126	135	118	146	147	162	160
Norway	1	D	D	D	D	D	D	D	D	5	9	6	9	5	D
Switzerland	27	9	6	19	26	45	60	114	79	72	86	76	112	135	159
All others.....	44	67	84	41	62	170	81	203	31	52	74	68	67	72	119
South/Central America.....	5	—	—	—	1	D	D	D	D	D	28	45	29	120	82
Brazil	—	—	—	—	—	—	2	2	—	—	4	D	D	D	D
Mexico	3	—	—	—	—	1	—	1	D	5	D	2	7	14	6
All others.....	2	NA	NA	NA	1	D	D	D	D	D	D	D	D	D	D
Africa	—	4	—	0	—	—	—	1	—	4	5	—	—	D	—
Middle East	2	3	4	3	4	5	9	9	13	12	9	5	14	26	22
Asia and Pacific.....	95	112	120	160	140	152	200	283	333	401	530	480	614	515	472
China	NA	NA	NA	NA	NA	NA	NA	7	—	D	D	D	13	6	2
Hong Kong	1	—	—	0	—	—	2	3	D	2	2	—	2	2	1
India.....	—	—	—	—	—	—	0	—	—	D	D	—	1	D	D
Indonesia	0	—	0	0	0	—	0	0	—	—	—	—	—	D	D
Japan.....	88	108	109	141	138	145	191	262	307	308	360	374	550	460	412
Malaysia	0	0	0	0	0	0	—	0	—	3	3	—	—	—	D
Philippines	0	—	1	0	0	—	—	—	—	1	—	—	—	—	—
Singapore	—	0	0	0	—	D	—	—	—	—	2	—	—	—	D
South Korea	—	—	D	D	—	1	1	6	D	D	D	D	22	19	18
Taiwan	—	—	D	1	—	2	2	2	—	2	4	—	7	D	2
All others ^d	—	4	10	D	2	D	4	3	26	—	D	D	D	D	D
All other countries	28	40	47	4	3	16	17	18	17	54	27	47	112	9	6
Balance															
All countries/economies.....	1,219	1,437	1,439	1,668	1,638	1,707	1,766	1,992	2,565	2,247	2,127	2,180	2,332	3,010	3,037
Canada.....	78	49	54	63	51	37	33	43	42	16	3	0	-18	42	33
Europe	126	162	97	148	-62	2	-178	56	257	260	250	465	650	538	378
Eastern Europe ^a	—	—	11	—	7	—	7	—	20	7	5	—	—	4	1
European Union ^b	105	131	36	140	49	81	24	203	295	288	327	516	705	619	521
Belgium-Luxembourg.....	24	30	24	7	20	4	27	61	53	—	27	43	71	97	70
France	40	45	1	24	18	—	-3	15	-37	-69	—	—	—	20	—
Germany ^c	-21	-39	-60	-26	-85	—	-78	29	61	71	35	119	149	162	105
Italy.....	32	53	46	76	36	75	60	64	57	17	42	35	111	94	95
Netherlands	26	35	29	50	21	46	12	8	9	56	41	26	8	21	19
Spain	—	—	19	20	—	19	22	—	30	27	28	24	—	—	—
Sweden ^b	—	—	—	-18	-87	—	-145	—	103	88	54	93	43	16	-2
United Kingdom	-12	-23	-21	-20	0	-22	-20	9	-11	-6	29	8	69	-6	18
Norway	9	—	—	—	—	—	—	—	—	-2	-5	-3	-7	-3	—
Switzerland	-11	5	17	5	-11	5	-15	-70	-38	12	-10	1	-18	-13	-30

Appendix table 6-4

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U.S. receipts and payments of royalties and license fees generated from exchange and use of industrial processes with unaffiliated foreign companies, by region or country/economy: 1987–2001

(Millions of U.S. dollars)

Region or country/economy	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
All others.....	-15	-35	-52	-4	-34	-134	-52	-177	-25	-45	-67	-63	-64	-67	-117
South/Central America.....	59	—	—	—	84	—	—	—	—	—	53	64	67	-35	17
Brazil	—	—	—	—	—	—	5	6	—	—	13	—	—	—	—
Mexico	11	—	—	—	—	28	—	32	—	21	—	38	29	8	24
All other	29	—	—	—	45	—	—	—	—	—	—	—	—	—	—
Africa	—	18	—	22	—	—	—	25	—	24	10	—	—	—	—
Middle East	—	15	13	19	21	16	24	11	22	13	32	15	36	55	30
Asia and Pacific.....	841	1,073	1,128	1,305	1,498	1,552	1,766	1,780	2,129	1,898	1,769	1,614	1,574	2,395	2,557
China	—	—	—	—	—	—	—	26	—	—	—	—	19	38	43
Hong Kong	3	—	—	6	—	—	10	12	—	17	19	—	10	10	13
India.....	—	—	—	—	—	—	—	—	—	—	—	—	16	—	—
Indonesia	5	—	8	11	20	—	20	20	—	—	—	—	—	—	—
Japan.....	635	775	788	887	1,081	1,123	1,243	1,110	1,241	1,121	1,148	798	611	1,176	1,467
Malaysia	—	—	2	2	2	7	—	19	—	—	9	—	—	—	—
Philippines	3	—	3	4	2	—	—	—	—	1	—	—	—	—	—
Singapore	—	13	8	19	—	—	—	—	—	—	37	—	—	—	—
South Korea	—	—	—	—	—	219	277	390	—	—	—	—	628	877	724
Taiwan	—	—	—	54	—	40	32	37	—	128	140	—	180	—	227
All others ^d	—	77	85	—	70	—	—	64	70	—	—	—	—	—	—
All other countries	117	72	69	52	12	0	85	-6	80	36	10	-40	-99	25	5

— less than \$500,000

D withheld to avoid disclosing operations of individual companies

NA not available

^aComprises Albania, Azerbaijan, Belarus, Bulgaria, Czech Republic, Estonia, Georgia, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Poland, Romania, Russia, Slovakia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan.^bAustria, Finland, and Sweden joined European Union in 1995. European Union countries not listed separately are Denmark, Greece, Ireland, and Portugal.^cData before 1990 are for the former West Germany only. Beginning in 1990, data include former East Germany.^dIncludes data before 1994.

NOTES: Industrial processes include patents and other proprietary inventions and technology. Affiliate refers to a business enterprise located in one country that is directly or indirectly owned or controlled by an entity in another country. Controlling interest must equal 10 percent or more of its voting stock or its equivalent.

SOURCE: U.S. Bureau of Economic Analysis, *Survey of Current Business*, vol. 80 (10): 67–124, 2002.

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