

Appendix table 4-23

R&D performed abroad by majority-owned foreign affiliates of U.S. parent companies, by selected NAICS industry of affiliate: 1999–2003

(Millions of current U.S. dollars)

Industry/sector	NAICS code	1999	2000	2001	2002	2003
All industries	na	18,144	20,457	19,702	21,063	22,793
Mining	21	8	16	10	12	11
Oil and gas extraction	211	4	10	5	8	5
Other	na	4	6	4	4	6
Utilities	22	*	2	1	1	2
Manufacturing	31–33	16,388	18,455	17,383	18,736	19,819
Food	311	367	279	321	341	420
Beverages and tobacco products	312	32	34	12	D	8
Textiles, apparel, and leather products	313–16	37	34	32	56	61
Wood products	321	2	2	*	1	8
Paper	322	265	88	75	81	73
Printing and related support activities	323	3	3	2	2	9
Petroleum and coal products	324	66	63	37	D	44
Chemicals	325	4,340	4,609	4,503	5,141	5,528
Basic chemicals	3251	106	156	143	117	115
Resins and synthetic rubber, fibers, and filaments	3252	173	196	189	218	215
Pharmaceuticals and medicines	3254	3,578	3,882	3,762	4,230	4,630
Soap, cleaning compounds, and toilet preparations	3256	135	87	66	265	181
Other	na	348	289	343	311	386
Plastics and rubber products	326	216	304	261	316	290
Nonmetallic mineral products	327	38	49	57	66	54
Primary and fabricated metals	na	151	184	153	180	228
Primary metals	331	27	23	32	32	35
Fabricated metal products	332	124	161	121	148	193
Machinery	333	748	772	743	634	783
Agriculture, construction, and mining machinery	3331	168	188	179	173	220
Industrial machinery	3332	216	255	237	128	131
Other	na	364	329	327	334	433
Computers and electronic products	334	3,773	5,440	5,697	4,975	4,796
Computers and peripheral equipment	3341	356	342	384	388	402
Communications equipment	3342	2,403	3,853	4,061	3,131	2,987
Audio and video equipment	3343	146	D	D	67	67
Semiconductors and other electronic components	3344	644	854	811	1,043	949
Navigational, measuring, and other instruments	3345	224	316	381	346	391
Magnetic and optical media	3346	0	D	D	0	0
Electrical equipment, appliances, and components	335	214	310	339	425	498
Transportation equipment	336	5,669	5,765	4,690	5,964	6,455
Motor vehicles, bodies and trailers, and parts	3361, 3362, 3363	5,385	5,463	4,321	5,553	5,928
Other	na	284	303	369	410	527
Furniture and related products	337	D	48	D	57	27
Miscellaneous manufacturing	339	D	471	D	432	535
Wholesale trade	42	515	553	739	610	692
Professional and commercial equipment and supplies	4214	272	225	315	233	295
Other durable goods	na	69	138	86	67	70
Petroleum and petroleum products	4227	D	8	6	1	2
Other nondurable goods	na	D	182	331	309	325
Information	51	161	410	410	591	818
Publishing industries	511	D	381	389	556	773
Motion picture and sound recording industries	512	*	1	1	*	*
Broadcasting and telecommunications	513	1	11	3	11	15
Broadcasting, cable networks, and program distribution	5131, 5132	0	1	1	0	1
Telecommunications	5133	1	10	2	11	15
Information services and data processing services	514	D	16	17	24	29
Finance (except depository institutions) and insurance	52	1	3	D	14	1
Finance, except depository institutions	na	0	2	D	13	1
Securities, commodity contracts, and other intermediation and related activities	523	0	1	D	13	*

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Industry/sector	NAICS code	1999	2000	2001	2002	2003
Other finance, except depository institutions	na	0	1	0	0	*
Insurance carriers and related activities	524	1	1	1	1	0
Professional, scientific, and technical services	54	1,040	930	1,062	1,019	1,351
Architectural, engineering, and related services	5413	D	73	75	120	51
Computer systems design and related services	5415	305	347	395	447	532
Management, scientific, and technical consulting	5416	D	28	24	23	26
Advertising and related services	5418	0	6	4	1	2
Other	na	519	475	564	428	741
Other industries	na	31	89	D	80	98
Agriculture, forestry, fishing, and hunting	11	5	D	D	D	D
Construction	23	*	*	*	0	*
Retail trade	44–45	1	6	D	D	8
Transportation and warehousing	48–49	0	*	3	1	*
Real estate and rental and leasing	53	1	2	2	2	2
Real estate	531	0	0	0	0	0
Rental and leasing (except real estate)	532	1	2	2	2	2
Management of nonbank companies and enterprises	55	16	50	52	42	D
Administration, support, and waste management	56	0	1	2	6	4
Health care and social assistance	62	*	*	*	*	*
Accommodation and food services	72	*	2	2	3	3
Accommodation	721	0	0	0	0	0
Food services and drinking places	722	*	2	2	3	3
Miscellaneous services	na	8	D	6	5	6

* = ≤\$500,000; D = suppressed to avoid disclosure of confidential information; na = not applicable

NAICS = North American Industry Classification System

NOTES: Data for majority-owned (>50%) nonbank foreign affiliates of nonbank U.S. parents. Data include R&D expenditures performed by affiliates, whether for themselves or for others under contract. Data exclude R&D expenditures by others for affiliates under contract. Industry data are classified by the Bureau of Economic Analysis using the International Survey Industry classification system based on the North American Industry Classification System (NAICS). Data for 1999–2003 are based on the 1997 NAICS.

SOURCE: Bureau of Economic Analysis, Survey of U.S. Direct Investment Abroad (annual series), <http://www.bea.gov/international/index.htm#omc>, accessed 15 February 2011.

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