

Appendix table 4-47

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R&D performed in United States by U.S. multinational corporation parent companies, by NAICS industry: 1999–2004

(Millions of current U.S. dollars)

Industry/sector	NAICS code	1999	2000	2001	2002	2003	2004
All industries.....	na	126,291	135,467	143,017	136,977	139,884	152,384
Mining.....	21	212	329	411	274	472	D
Oil and gas extraction.....	211	53	46	49	33	25	D
Other.....	na	159	284	362	241	447	447
Utilities.....	22	81	108	59	53	60	18
Manufacturing.....	31–33	104,842	109,744	115,118	110,062	112,681	120,851
Food.....	311	934	890	914	1,370	1,367	1,400
Beverages and tobacco products.....	312	501	467	469	D	448	452
Textiles, apparel, and leather products.....	313	275	248	125	D	85	102
Wood products.....	321	31	D	D	78	84	105
Paper.....	322	1,478	1,498	1,358	1,376	1,325	1,336
Printing and related support activities.....	323	129	148	D	157	174	220
Petroleum and coal products.....	324	990	977	1,002	1,153	1,266	1,251
Chemicals.....	325	28,198	29,212	31,927	32,273	35,500	40,270
Basic chemicals.....	3251	1,627	1,569	1,742	1,456	1,502	1,881
Resins and synthetic rubber, fibers and filaments.....	3252	2,784	2,963	2,972	2,530	2,553	2,392
Pharmaceuticals and medicines.....	3254	18,382	20,591	23,169	24,279	26,471	31,046
Soap, cleaning compounds, and toilet preparations.....	3256	1,957	2,249	2,153	1,768	2,683	2,584
Other chemicals.....	na	3,449	1,841	1,892	2,239	2,292	2,368
Plastics and rubber products.....	326	1,031	955	929	937	978	925
Nonmetallic mineral products.....	327	371	406	339	373	435	426
Primary and fabricated metals.....	na	1,320	1,417	1,038	1,340	1,412	1,211
Primary metals.....	331	760	818	484	498	501	472
Fabricated metal products.....	332	560	600	554	841	911	739
Machinery.....	333	5,252	7,196	8,561	8,405	5,431	5,780
Agriculture, construction, and mining machinery.....	3331	1,340	1,343	1,484	1,733	1,700	1,722
Industrial machinery.....	3332	1,250	1,607	1,579	1,583	1,469	1,652
Other machinery.....	na	2,662	4,247	5,497	5,088	2,263	2,405
Computers and electronic products.....	334	30,298	35,616	38,356	33,948	33,255	35,810
Computers and peripheral equipment.....	3341	5,659	6,952	7,727	7,065	7,064	7,371
Communications equipment.....	3342	13,276	14,614	14,526	11,497	10,359	10,473
Audio and video equipment.....	3343	407	436	359	D	D	433
Semiconductors and other electronic components.....	3344	8,997	10,252	11,114	10,620	11,508	12,369
Navigational, measuring, and other instruments.....	3345	1,579	2,960	4,158	4,244	3,824	D
Magnetic and optical media.....	3346	381	402	473	D	D	D
Electrical equipment, appliances, and components.....	335	2,958	2,511	2,008	1,729	1,350	1,266
Transportation equipment.....	336	29,162	25,834	25,147	23,167	25,565	25,795
Motor vehicles, bodies and trailers, and parts.....	3361, 3362, 3363	17,513	16,223	18,183	16,535	17,251	14,662
Other transportation equipment.....	na	11,649	9,611	6,964	6,632	8,314	11,133
Furniture and related products.....	337	90	D	128	130	116	106
Miscellaneous manufacturing.....	339	1,826	2,176	2,570	3,067	3,890	4,397
Wholesale trade.....	42	4,000	3,755	4,032	2,798	2,850	D
Professional and commercial equipment and supplies.....	4214	2,635	2,404	2,489	1,388	1,164	D
Petroleum and petroleum products.....	4227	D	231	238	218	195	78
Information.....	51	6,763	8,251	9,514	9,679	9,933	14,003
Publishing industries.....	511	4,050	5,510	6,452	6,718	7,202	11,018
Motion picture and sound recording industries.....	512	D	12	12	27	30	18
Broadcasting and telecommunications.....	513	869	820	796	625	442	486
Broadcasting, cable networks, and program distribution.....	5131, 5132	D	14	14	37	72	203
Telecommunications.....	5133	D	806	782	588	369	283
Information services and data processing services.....	514	D	1,909	2,254	2,308	2,259	2,481
Finance (except depository institutions) and insurance.....	52	315	510	617	560	369	350
Finance (except depository institutions).....	na	240	458	477	430	249	183
Securities, commodity contracts, and related activities.....	523	D	254	D	290	126	D
Other finance (except depository institutions).....	na	D	204	D	140	123	D
Insurance carriers and related activities.....	524	75	52	141	130	120	167
Professional, scientific, and technical services.....	54	8,522	10,042	10,348	10,479	10,560	12,787
Architectural, engineering, and related services.....	5413	49	24	18	D	D	91
Computer systems design and related services.....	5415	7,453	8,359	8,929	8,917	8,920	8,689
Management, scientific, and technical consulting.....	5416	D	D	D	533	554	580

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Industry/sector	NAICS code	1999	2000	2001	2002	2003	2004
Advertising and related services	5418	D	D	D	D	D	1
Other professional, scientific, and technical services	na	716	874	802	978	982	3,427
Other industries	na	1,556	2,729	2,918	3,073	2,958	1,028
Agriculture, forestry, fishing and hunting.....	11	2	2	D	D	D	32
Construction.....	23	D	D	D	D	D	3
Retail trade.....	44–45	D	D	D	D	D	53
Transportation and warehousing.....	48–49	26	8	12	5	1	*
Real estate and rental and leasing.....	53	D	6	7	D	5	D
Real estate.....	531	0	0	0	0	0	0
Rental and leasing (except real estate)	532	D	6	7	D	5	D
Management of companies and enterprises (except bank companies)....	55	0	0	0	D	0	0
Administration, support, and waste management	56	6	D	D	D	D	D
Health care and social assistance.....	62	D	30	32	31	32	32
Accommodation and food services	72	25	31	42	29	37	9
Accommodation	721	0	0	0	0	0	0
Food services and drinking places.....	722	25	31	42	29	37	9
Miscellaneous services.....	na	15	16	17	128	143	163

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

NAICS = North American Industry Classification System

NOTES: Preliminary estimates for 2004. U.S. multinational corporation (MNC) parent company is a company that resides in United States and owns or controls at least 10% of voting securities or equivalent of foreign business enterprise. Data include R&D performed by U.S. MNC parent companies, regardless of funding source, whether for performer itself or for others, including R&D performed for federal government; data exclude R&D conducted by others under contract.

SOURCE: Bureau of Economic Analysis, Survey of U.S. Direct Investment Abroad (annual series), <http://www.bea.gov/beat/di/di1usdop.htm>, accessed 20 April 2007.