

Appendix table 4-54

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R&D performed in United States by U.S. MNC parent companies, by NAICS industry: 1999–2002

(Millions of current U.S. dollars)

Industry/sector	NAICS code	1999	2000	2001	2002
All industries.....	na	126,291	135,467	143,017	137,968
Mining.....	21	212	329	411	382
Oil and gas extraction.....	211	53	46	49	33
Other mining.....	na	159	284	362	349
Utilities.....	22	81	108	59	52
Manufacturing.....	31–33	104,842	109,744	115,118	111,237
Food.....	311	934	890	914	1,023
Beverages and tobacco products.....	312	501	467	469	D
Textiles, apparel, and leather products.....	313	275	248	125	D
Wood products.....	321	31	D	D	78
Paper.....	322	1,478	1,498	1,358	1,384
Printing and related support activities.....	323	129	148	D	157
Petroleum and coal products.....	324	990	977	1,002	1,044
Chemicals.....	325	28,198	29,212	31,927	32,830
Basic chemicals.....	3251	1,627	1,569	1,742	1,656
Resins and synthetic rubber, fibers and filaments.....	3252	2,784	2,963	2,972	2,537
Pharmaceuticals and medicines.....	3254	18,382	20,591	23,169	24,373
Soap, cleaning compounds, and toilet preparations.....	3256	1,957	2,249	2,153	2,007
Other chemicals.....	na	3,449	1,841	1,892	2,257
Plastics and rubber products.....	326	1,031	955	929	936
Nonmetallic mineral products.....	327	371	406	339	338
Primary and fabricated metals.....	na	1,320	1,417	1,038	1,308
Primary metals.....	331	760	818	484	513
Fabricated metal products.....	332	560	600	554	794
Machinery.....	333	5,252	7,196	8,561	8,023
Agriculture, construction, and mining machinery.....	3331	1,340	1,343	1,484	1,527
Industrial machinery.....	3332	1,250	1,607	1,579	1,377
Other machinery.....	na	2,662	4,247	5,497	5,120
Computers and electronic products.....	334	30,298	35,616	38,356	35,308
Computers and peripheral equipment.....	3341	5,659	6,952	7,727	7,675
Communications equipment.....	3342	13,276	14,614	14,526	11,588
Audio and video equipment.....	3343	407	436	359	334
Semiconductors and other electronic components.....	3344	8,997	10,252	11,114	11,213
Navigational, measuring, and other instruments.....	3345	1,579	2,960	4,158	4,146
Magnetic and optical media.....	3346	381	402	473	352
Electrical equipment, appliances, and components.....	335	2,958	2,511	2,008	1,745
Transportation equipment.....	336	29,162	25,834	25,147	23,224
Motor vehicles, bodies and trailers, and parts.....	3361, 3362, 3363	17,513	16,223	18,183	16,575
Other transportation equipment.....	na	11,649	9,611	6,964	6,649
Furniture and related products.....	337	90	D	128	130
Miscellaneous manufacturing.....	339	1,826	2,176	2,570	3,151
Wholesale trade: durable and nondurable goods.....	42	4,000	3,755	4,032	2,751
Professional and commercial equipment and supplies.....	4214	2,635	2,404	2,489	1,378
Other durable goods wholesalers.....	na	774	577	638	535
Petroleum and petroleum products.....	4227	D	231	238	219
Other nondurable goods wholesalers.....	na	D	543	666	619
Information.....	51	6,763	8,251	9,514	9,427
Publishing industries.....	511	4,050	5,510	6,452	6,436
Motion picture and sound recording industries.....	512	D	12	12	12
Broadcasting and telecommunications.....	513	869	820	796	626
Broadcasting, cable networks, and program distribution.....	5131, 5132	D	14	14	38
Telecommunications.....	5133	D	806	782	589
Information services and data processing services.....	514	D	1,909	2,254	2,353
Finance (except depository institutions) and insurance.....	52	315	510	617	672
Finance (except depository institutions).....	na	240	458	477	543
Securities, commodity contracts, and other intermediation and related activities.....	523	D	254	D	340
Other finance (except depository institutions).....	na	D	204	D	204
Insurance carriers and related activities.....	524	75	52	141	128
Professional, scientific, and technical services.....	54	8,522	10,042	10,348	10,471
Architectural, engineering, and related services.....	5413	49	24	18	D
Computer systems design and related services.....	5415	7,453	8,359	8,929	8,941

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R&D performed in United States by U.S. MNC parent companies, by NAICS industry: 1999–2002

(Millions of current U.S. dollars)

Industry/sector	NAICS code	1999	2000	2001	2002
Management, scientific, and technical consulting	5416	D	D	D	544
Advertising and related services	5418	D	D	D	D
Other professional, scientific, and technical services	na	716	874	802	934
Other industries	na	1,556	2,729	2,918	2,977
Agriculture, forestry, fishing and hunting.....	11	2	2	D	31
Construction	23	D	D	D	D
Retail trade.....	44-45	D	D	D	D
Transportation and warehousing.....	48-49	26	8	12	13
Real estate and rental and leasing.....	53	D	6	7	7
Real estate.....	531	0	0	0	0
Rental and leasing (except real estate)	532	D	6	7	7
Management of companies and enterprises (except bank companies).....	55	0	0	0	0
Administration, support, and waste management	56	6	D	D	D
Health care and social assistance.....	62	D	30	32	31
Accommodation and food services	72	25	31	42	D
Accommodation	721	0	0	0	0
Food services and drinking places.....	722	25	31	42	D
Miscellaneous services.....	na	15	16	17	52

D = data withheld to avoid disclosing operations of individual companies; na = not applicable

MNC = multinational corporation; NAICS = North American Industry Classification System

NOTES: Preliminary estimates for 2002. U.S. 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: U.S. Department of Commerce, Bureau of Economic Analysis, Survey of U.S. Direct Investment Abroad (annual series), <http://www.bea.gov/bea/di/di1usdop.htm>.