

Appendix table 4-22
R&D investment of U.S. corporations, by major and detailed sector: 1994–2000
 (Millions of current dollars)

Major sector and industry	1994	1995	1996	1997	1998	1999	2000
Total	93,600	105,504	116,448	126,918	137,320	146,299	164,453
Aerospace.....	4,319	3,948	4,383	4,803	4,972	5,077	4,950
Basic industries and materials	8,510	8,564	8,961	9,182	9,274	8,878	8,628
Agriculture, forestry, fishing, and hunting.....	214	229	244	253	316	99	93
Fabricated metal product manufacture.....	611	633	762	797	846	793	729
Food, beverage, and tobacco manufacture	1,313	1,362	1,373	1,271	1,294	1,394	1,306
Furniture and laboratory apparatus manufacture.....	107	204	212	236	273	282	300
Oil and gas extraction, support industry, and mining.....	883	839	910	1,032	1,119	936	927
Other basic industries activity.....	751	848	921	984	995	1,049	969
Paper and wood manufacture.....	1,719	1,581	1,686	1,730	1,748	1,733	1,784
Petroleum and coal products manufacture	1,699	1,532	1,465	1,496	1,247	1,059	982
Plastics and rubber products manufacture	586	657	668	681	769	876	892
Primary metal manufacture.....	497	528	551	496	456	404	403
Textile, apparel, leather, and allied product manufacture.....	129	151	168	207	211	253	243
Chemical manufacture.....	7,526	7,452	7,606	7,549	7,777	8,115	8,883
All other chemical product manufacture	1,502	1,588	1,682	1,606	1,415	1,345	1,896
Basic chemical manufacture	901	949	1,079	1,081	998	1,036	927
Paint, coatings, adhesives, cleaning, surface agent manufacture	1,879	2,127	2,089	2,168	2,471	2,644	2,765
Resin, synthetic rubber, and fibers manufacture	—	—	—	—	—	—	—
Information and electronics manufacture and services.....	35,347	40,087	45,193	53,094	59,208	64,573	77,766
Audio-video and other							
communications equipment manufacture.....	154	202	241	277	311	313	351
Broadcasting and telecommunications	4,347	1,362	1,335	1,144	1,065	969	763
Computer peripheral equipment and terminal manufacture	6,134	6,806	7,836	8,590	8,121	7,437	9,250
Computer storage device manufacture.....	1,260	1,647	1,915	2,264	2,607	2,670	2,895
Computer systems design and related services.....	4,724	4,813	5,193	6,342	6,650	6,818	6,927
Data processing and miscellaneous information services	324	387	463	592	666	730	775
Electrical equipment, appliance and component manufacture ...	1,777	1,975	2,090	2,302	2,203	2,220	2,719
Electronic computer manufacture.....	2,482	2,641	2,829	3,024	3,357	4,068	4,410
Instrument manufacture.....	2,200	2,193	2,634	3,080	3,636	4,062	4,712
Online information services.....	219	186	292	408	567	1,007	1,959
Other electronic components manufacture	662	933	882	908	1,070	694	893
Motion picture and sound recording industries	10	18	66	72	109	304	339
Radio, TV broadcasting, and wireless communications equipment manufacture	2,495	3,198	3,584	4,215	4,723	5,055	6,891
Semiconductor and related device manufacture.....	3,612	4,636	5,704	7,064	8,208	9,414	12,900
Software publishers	4,190	5,338	6,976	8,407	10,772	12,580	15,609
Telephone apparatus manufacture	754	3,753	3,149	4,406	5,142	6,231	6,374
Machinery manufacture	3,682	4,485	5,405	5,970	6,522	6,174	6,908
Agricultural, construction, and mining machinery manufacture..	918	1,077	1,214	1,446	1,649	1,419	1,542
Commercial and service industry machinery manufacture.....	539	622	731	867	941	856	758
Engine, turbine, and power transmission equipment manufacture	336	411	419	433	410	437	298
Other industrial machinery manufacture.....	1,427	1,578	1,860	1,873	1,810	1,869	2,041
Semiconductor industrial machinery manufacture.....	462	796	1,181	1,350	1,712	1,592	2,269
Medical substances and devices.....	16,715	20,220	22,620	24,511	27,557	30,308	32,485
Invitro diagnostic substance manufacture	250	334	473	525	723	764	886
Medical instruments, equipment, and supplies manufacture.....	2,191	2,562	2,943	3,308	3,473	3,435	3,590
Nondiagnostic biological product manufacture	1,397	1,785	2,063	2,497	2,865	3,148	3,443
Pharmaceutical and medicine manufacture.....	12,877	15,539	17,141	18,181	20,496	22,962	24,567
Surface transport equipment manufacture	15,302	18,323	19,526	18,798	18,623	19,139	19,775
Unclassifiable and conglomerates	1,415	1,527	1,653	1,750	1,791	1,952	2,203
Various services.....	785	897	1,101	1,261	1,596	2,084	2,855
Administration, support, waste management, and remediation services	56	84	165	189	236	210	350
Electronic shopping and mail-order	6	4	17	25	87	348	495
Finance, insurance, real estate, and leasing.....	130	145	231	324	214	217	202
Other services.....	86	113	98	84	100	127	162
Professional, scientific, and technical services except computer..	276	318	326	322	520	650	980
Wholesale and retail, transport, and warehousing.....	231	232	265	317	439	532	667

NOTE: Data represent publicly held corporations with R&D expenses headquartered in the United States.

SOURCES: U.S. Department of Commerce, *U.S. Corporate R&D Investment, 1994–2000 Final Estimates* (Washington, DC, 2002); Standard & Poor's COMPUSTAT database (Englewood, CO); and corporate financial statements submitted to U.S. Securities and Exchange Commission.