

Table A-18. Domestic net sales of companies that performed industrial R&D in the U.S., by industry, by size of company: 1999

Industry	NAICS codes	Total	Size of company [number of employees]									
			5 to 24	25 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 to 4,999	5,000 to 9,999	10,000 to 24,999	25,000 or more
[In millions of dollars]												
Distribution by industry:												
All industries.....	21-23, 31-33, 42, 44-81	5,856,396	38,554	41,243	50,899	94,852	126,124	160,105	764,918	631,873	891,633	3,056,197
Manufacturing.....	31-33	3,126,793	13,667	19,731	28,712	68,689	61,347	118,203	516,835	414,239	609,538	1,275,833
Food.....	311	302,077	0	0	1,332	3,682	2,608	7,914	55,198	35,169	73,283	122,892
Beverage and tobacco products.....	312	52,984	0	0	0	0	(D)	0	3,509	(D)	0	(D)
Textiles, apparel, and leather.....	313-16	47,352	(D)	274	1,196	1,880	1,811	3,659	15,150	3,822	16,053	(D)
Wood products.....	321	13,772	0	0	945	788	99	292	7,192	(D)	(D)	0
Paper, printing and support activities.....	322, 323	172,710	0	0	0	3,710	668	4,805	18,343	9,497	40,001	95,685
Petroleum and coal products.....	324	157,630	0	0	899	0	727	(D)	(D)	(D)	98,680	(D)
Chemicals.....	325	392,618	0	1,743	2,597	13,068	6,734	9,077	69,514	54,531	102,292	133,063
Basic chemicals.....	3251	129,774	0	50	(D)	1,638	2,319	3,590	27,447	14,645	26,280	(D)
Resin, synthetic rubber, fibers, and filament.....	3252	52,526	0	0	0	0	(D)	0	9,116	7,471	(D)	(D)
Pharmaceuticals and medicines.....	3254	116,900	0	0	(D)	3,906	(D)	1,374	11,976	10,151	47,823	(S) 41,417
Other chemicals.....	325 (minus 3251-52, 3254)	93,419	0	1,693	1,941	7,524	4,039	4,113	20,975	22,263	(D)	(D)
Plastics and rubber products.....	326	91,586	0	0	1,077	4,666	10,712	7,116	21,955	21,368	6,413	18,279
Nonmetallic mineral products.....	327	40,785	(D)	0	1,413	567	3,040	(D)	13,889	12,253	9,334	0
Primary metals.....	331	110,440	1,063	0	2,513	(D)	1,342	9,174	19,874	16,296	20,480	(D)
Fabricated metal products.....	332	113,290	351	688	1,897	9,729	7,446	10,303	16,289	25,186	17,419	23,982
Machinery.....	333	172,635	626	558	5,173	8,145	6,542	18,063	32,825	39,492	36,077	25,134
Computer and electronic products.....	334	350,254	1,305	512	2,112	9,079	12,071	22,529	72,632	57,703	58,512	113,799
Computers and peripheral equipment.....	3341	64,016	0	4	573	1,349	2,434	1,050	6,972	16,723	(D)	(D)
Communications equipment.....	3342	50,067	0	0	0	1,980	2,406	3,651	12,636	8,718	(D)	(D)
Semiconductor and other electronic components.....	3344	128,333	1,305	0	1,075	3,641	4,563	5,775	34,297	24,643	(D)	(D)
Navigational, measuring, electromedical, and control instruments.....	3345	94,626	0	0	464	1,533	2,244	5,824	13,252	7,618	14,739	48,951
Other computer and electronic products.....	334 (minus 3341-42, 3344-45)	13,212	0	508	0	575	423	6,230	5,475	0	0	0
Electrical equipment, appliances, and components.....	335	163,892	623	0	775	2,157	3,380	7,422	(D)	11,685	33,036	(D)

See explanatory information and SOURCE at end of table.

Table A-18. Domestic net sales of companies that performed industrial R&D in the U.S., by industry, by size of company: 1999

Industry	NAICS codes	Total	Size of company [number of employees]									
			5 to 24	25 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 to 4,999	5,000 to 9,999	10,000 to 24,999	25,000 or more
[In millions of dollars]												
Distribution by industry:												
Transportation equipment.....	336	813,051	0	215	530	3,256	589	11,321	119,141	74,769	79,053	524,176
Motor vehicles, trailers, and parts.....	3361-63	610,575	0	215	0	1,645	0	8,107	111,015	58,380	64,239	366,974
Aerospace products and parts.....	3364	163,464	0	0	(D)	(D)	0	(D)	2,107	12,281	(D)	(D)
Other transportation equipment.....	336 (minus 3361-64)	39,013	0	0	(D)	(D)	589	(D)	6,020	4,108	(D)	(D)
Furniture and related products.....	337	34,082	0	0	351	1,623	579	1,126	9,243	7,711	13,448	0
Miscellaneous manufacturing.....	339	67,349	536	0	1,871	4,840	2,939	4,034	21,589	7,442	(D)	(D)
Medical equipment and supplies.....	3391	42,152	153	0	608	1,817	1,184	1,307	10,519	7,442	(D)	(D)
Other miscellaneous manufacturing.....	339 (minus 3391)	25,197	383	0	1,263	3,022	1,755	2,727	11,071	0	(D)	(D)
Other manufacturing.....	31-33 (minus 311-16, 321-27, 331-37, 339)	--	--	--	--	--	--	--	--	--	--	--
Small manufacturing companies ¹	Fewer than 50 employees	30,286	9,163	15,742	4,030	765	(D)	(D)	0	0	0	0
Nonmanufacturing.....	21-23, 42, 44-81	2,729,604	24,887	21,511	22,187	26,164	64,777	41,901	248,083	217,634	282,095	1,780,364
Mining, extraction, and support activities.....	21	124,380	0	(D)	465	0	6,647	6,744	47,099	(D)	36,543	0
Utilities.....	22	194,395	0	0	0	0	0	(D)	25,662	78,835	77,695	(D)
Construction.....	23	22,456	10	2,069	3,338	849	(D)	547	(D)	2,604	(D)	(D)
Trade.....	42, 44, 45	355,802	4,035	7,003	4,925	9,767	8,446	13,974	62,659	38,968	38,278	167,746
Transportation and warehousing.....	48, 49	87,559	50	150	0	(D)	0	(D)	(D)	12,473	22,058	49,260
Information.....	51	433,439	2,220	3,592	2,563	5,876	5,542	8,802	26,714	11,667	31,756	334,709
Publishing.....	511	84,262	830	3,542	2,073	4,766	3,821	7,440	(D)	8,968	23,451	(D)
Newspaper, periodical, book, and database.....	5111	19,028	0	0	796	1,768	0	(D)	(D)	0	(D)	(D)
Software.....	5112	65,234	830	3,542	1,277	2,998	3,821	(D)	18,702	8,968	(D)	0
Broadcasting and telecommunications.....	513	323,069	0	49	20	178	0	(D)	(D)	0	(D)	315,256
Radio and television broadcasting.....	5131	(D)	0	49	0	(D)	0	0	(D)	0	0	(D)
Telecommunications.....	5133	313,679	0	0	0	(D)	0	(D)	(D)	0	(D)	307,679
Other broadcasting and telecommunications.....	513 (minus 5131, 5133)	(D)	0	0	20	174	0	(D)	0	0	0	(D)

See explanatory information and SOURCE at end of table.

Table A-18. Domestic net sales of companies that performed industrial R&D in the U.S., by industry, by size of company: 1999

Industry	NAICS codes	Total	Size of company [number of employees]									
			5 to 24	25 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 to 4,999	5,000 to 9,999	10,000 to 24,999	25,000 or more
Distribution by industry:		[In millions of dollars]										
Other information.....	51 (minus 511, 513)	26,108	1,390	1	471	932	1,721	(D)	3,985	2,699	(D)	(D)
Finance, insurance, and real estate.....	52, 53	336,793	624	(D)	39	(D)	9,468	1,300	53,532	24,859	23,626	223,079
Professional, scientific, and technical services.....	54	124,483	2,673	7,347	8,375	8,846	7,631	7,265	24,024	15,053	21,315	21,956
Architectural, engineering, and related services.....	5413	35,304	905	2,867	1,759	1,497	1,609	1,159	3,626	5,222	16,659	0
Computer systems design and related services.....	5415	36,394	1,196	2,748	2,934	3,544	4,165	(D)	6,479	5,433	0	(D)
Scientific R&D services.....	5417	23,114	516	1,529	2,683	2,615	(D)	2,039	4,982	(D)	(D)	(D)
Other professional, scientific, and technical services.....	54 (minus 5413, 5415, 5417)	29,672	56	203	999	1,190	(D)	(D)	8,937	(D)	(D)	(D)
Management of companies and enterprises.....	55	1,268	(S) 0	30	(D)	(D)	(D)	0	772	0	0	0
Health care services.....	621-23	9,801	277	557	0	0	176	0	0	(D)	(D)	0
Other nonmanufacturing.....	56, 61, 624, 71, 72, 81	1,004,772	115	285	1,929	654	1,592	281	6,031	6,557	22,033	965,293
Small nonmanufacturing companies ¹	Fewer than 15 employees	34,455	14,883	0	(D)	(D)	18,980	0	0	0	0	0

¹ The frame from which the statistical sample was selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, detailed industry statistics were possible only from the large company partition; detailed industry statistics from the small company partition were not possible. Statistics from the small company partition are shown separately and are included in manufacturing, nonmanufacturing, and all industries totals. Note that because companies were assigned to the "small company" partition of the sample based on preliminary information available from the sampling frame and the number of employees may have been revised during statistical processing, some companies' statistics are reported in size categories above the 50 employee threshold for manufacturing companies and the 15 employee threshold for nonmanufacturing companies. For more detailed information, please see "frame creation" and "sample selection" in Section B.

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.
(S) = Indicates imputation of more than 50 percent.
-- = Indicates data not collected.

NOTE: Starting with the 1999 survey, estimates are based on the North American Industry Classification System (NAICS). In prior years, estimates were based on the Standard Industrial Classification (SIC) system.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 1999