Company and other non-Federal funds for industrial R\&D performance in United States, by industry and size of company: 1999-2001 (Millions of dollars)

| Industry and size of company | NAICS codes | Funds |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1999a | 2000 | 2001 |
| All industries............................................................. | 21-23, 31-33, 42, 44-81 | 160,176 | 180,421 | 181,606 |
| Manufacturing............................................................ | 31-33 | 99,865 | 110,750 | 109,221 |
| Food............................................................... | 311 | 1,132 | 1,145 | 1,818 |
| Beverage and tobacco products ................................ | 312 | D | 417 | 152 |
| Textiles, apparel, and leather ..................................... | 313-16 | 334 | 266 | 255 |
| Wood products .................................................... | 321 | 70 | 105 | 181 |
| Paper, printing, and support activities ........................... | 322,323 | 2,474 | 2,700 | 2,664 |
| Petroleum and coal products ...................................... | 324 | D | 1,172 | 1,057 |
| Chemicals ......................................................... | 325 | 20,051 | 20,768 | 17,713 |
| Basic chemicals. | 3251 | 2,648 | 2,050 | 1,835 |
| Resin, synthetic rubber, fibers, and filament ................. | 3252 | 2,216 | 2,842 | 2,745 |
| Pharmaceuticals and medicines .............................. | 3254 | 12,236 | 12,793 | 10,137 |
| Other chemicals ................................................ | 325 minus (3251-52, 3254) | 2,951 | 3,084 | 2,996 |
| Plastics and rubber products ...................................... | 326 | 1,785 | 1,675 | 2,245 |
| Nonmetallic mineral products ................................... | 327 | 595 | 845 | 978 |
| Primary metals .................................................... | 331 | 457 | 598 | 479 |
| Fabricated metal products....................................... | 332 | 1,608 | 1,631 | 1,545 |
| Machinery ......................................................... | 333 | 5,658 | 6,539 | 6,337 |
| Computer and electronic products ............................... | 334 | 29,939 | 39,553 | 41,232 |
| Computers and peripheral equipment....................... | 3341 | 4,126 | 5,162 | 3,165 |
| Communications equipment................................. | 3342 | 5,797 | 11,183 | 15,209 |
| Semiconductor and other electronic components .......... | 3344 | 10,624 | 12,787 | 14,210 |
| Navigational, measuring, electromedical, and control instruments $\qquad$ | 3345 | 8,632 | 10,114 | 7,565 |
| Other computer and electronic products..................... | 334 minus (3341-42, 3344-45) | 760 | 307 | 1,083 |
| Electrical equipment, appliances, and components........... | 335 | 3,820 | 3,390 | 4,680 |
| Transportation equipment....................................... | 336 | 23,928 | 22,917 | 21,004 |
| Motor vehicles, trailers, and parts............................. | 3361-63 | 17,987 | 18,306 | 16,089 |
| Aerospace products and parts ................................ | 3364 | 5,309 | 3,895 | 4,083 |
| Other transportation equipment.............................. | 336 minus (3361-64) | 632 | 716 | 8325 |
| Furniture and related products ................................... | 337 | 248 | 284 | 301 |
| Miscellaneous manufacturing................................... | 339 | 3,825 | 4,195 | 6,581 |
| Medical equipment and supplies ............................. | 3391 | 3,251 | 3,741 | 5,903 |
| Other miscellaneous manufacturing ......................... | 339 minus (3391) | 574 | 453 | 678 |
| Other manufacturing ............................................... | $\begin{aligned} & 31-33 \text { minus (311-16, 321-27, } \\ & 331-37,339) \end{aligned}$ | - | - | - |
| Nonmanufacturing.................................................... | 21-23, 42, 44-81 | 60,311 | 69,671 | 72,384 |
| Mining, extraction, and support activities ....................... | 21 | 2,352 | 822 | 846 |
| Utilities .................................................................... | 22 | 126 | 136 | 114 |
| Construction....................................................... | 23 | 690 | 222 | 320 |
| Trade. | 42, 44, 45 | 19,521 | 24,929 | 24,284 |
| Transportation and warehousing................................. | 48,49 | 460 | 277 | 1,776 |
| Information......................................................... | 51 | 14,892 | 16,290 | 17,259 |
| Publishing ....................................................... | 511 | 11,253 | 12,926 | 13,716 |
| Newspaper, periodical, book, and database.............. | 5111 | 371 | 365 | 649 |
| Software..................................................... | 5112 | 10,882 | 12,561 | 13,067 |
| Broadcasting and telecommunications ...................... | 513 | 1,393 | 1,025 | 1,270 |
| Radio and television broadcasting ......................... | 5131 | D | D | D |
| Telecommunications ........................................ | 5133 | D | D | 1,101 |
| Other broadcasting and telecommunications ............ | 513 minus ( 5131,5133$)$ | 18 | 59 | D |
| Other information .................................................. | 51 minus (511, 513) | 2,246 | 2,339 | 2,273 |
| Finance, insurance, and real estate............................. | 52,53 | 1,570 | 4,024 | 2,424 |
| Professional, scientific, and technical services................. | 54 | 14,379 | 17,949 | 22,640 |
| Architectural, engineering, and related services............. | 5413 | 2,402 | 2,232 | 2,365 |
| Computer systems design and related services............ | 5415 | 3,989 | 4,943 | 8,656 |
| Scientific R\&D services ....................................... | 5417 | 7,413 | 9,715 | 10,893 |
| Other professional, scientific, and technical services ..... | 54 minus ( $5413,5415,5417$ ) | 575 | 1,059 | 726 |

Company and other non-Federal funds for industrial R\&D performance in United States, by industry and size of company: 1999-2001
(Millions of dollars)

| Industry and size of company | NAICS codes | Funds |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1999a | 2000 | 2001 |
| Management of companies and enterprises ................... | 55 | 72 | 49 | 381 |
| Health care services .................................................. | 621-23 | 631 | 477 | 1,120 |
| Other nonmanufacturing.......................................... | 56, 61, 624, 71, 72, 81 | 640 | 713 | 1,221 |
| Company size(employees) |  |  |  |  |
| All companies ........................................................ | na | 160,176 | 180,421 | 181,606 |
| 5-24............................................................... | na | 6,393 | 5,940 | 4,175 |
| 25-49............................................................ | na | 4,382 | 4,786 | 3,548 |
| 50-99. | na | 6,623 | 6,745 | 7,654 |
| 100-249 | na | 6,540 | 8,351 | 12,012 |
| 250-499. | na | 7,407 | 6,819 | 8,143 |
| 500-999. | na | 6,441 | 8,580 | 9,936 |
| 1,000-4,999 ...................................................... | na | 23,944 | 29,860 | 26,140 |
| 5,000-9,999 ........................................................... | na | 14,182 | 15,143 | 15,836 |
| 10,000-24,999 ................................................. | na | 24,525 | 27,976 | 26,161 |
| 25,000 or more ..................................................... | na | 59,740 | 66,221 | 68,001 |

- data not collected; D data have been withheld to avoid disclosing operations of individual companies; NAICS North American Industry Classification System; S imputation of more than 50 percent na not applicable
asome statistics for 1999 have been revised since originally published.
NOTES: R\&D in this table is the industrial R\&D performed within company facilities funded from all sources except the Federal Government. Funds predominantly are the company's own but also include funds from outside organizations, such as other companies, research institutions, universities and colleges, nonprofit organizations, and state governments. Excluded from this table are company-funded $R \& D$ not performed within the company (e.g., $R \& D$ contracted out to other organizations) and company-funded R\&D not performed in the United States (e.g., R\&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations).
For 1999, 2000, and 2001, the frame from which statistical samples were selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with 50 or more employees were included in the large company partition. In the nonmanufacturing sector, companies with 15 or more employees 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 in this way was to reduce variability in industry estimates largely attributed to random year-to-year selection of small companies by industry and high sampling weights that sometimes were assigned to them. Because of this, in prior reports detailed industry statistics were published from only the large company partition. Statistics from the small company partition were included in the manufacturing, nonmanufacturing, and all industries totals but were aggregated into into "small manufacturing" and "small nonmanufacturing" classifications instead of being included in their respective industry classifications. For this report, this practice was evaluated and discontinued because it was determined that data for small companies are more useful if they are included in their respective industries even given sampling concerns described above. Consequently, the "small manufacturing" and "small nonmanufacturing" stublines are no longer used. For 1999 and 2000, statistics previously published for firms in the small company classifications are not shown separately in this table but are included in the manufacturing, nonmanufacturing, and all industries totals. For more information, see the technical notes in National Science Foundation, Division of Science Resources Statistics, Survey of Industrial Research and Development Methodology: 2001, http://www.nsf.gov/sbe/srs/sird/start.htm.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Research and Development in Industry: 2001 (Arlington, VA, forthcoming).

