Table 7A. State distribution of expenditures for R\&D, by performing sector and source of funding: 1999


Table 7A. State distribution of expenditures for R\&D, by performing sector and source of funding: 1999

| Performing sector: | $\begin{aligned} & \text { Total } \\ & \text { R\&D } \end{aligned}$ |  | Federal Government <br> Federal Government | Industry |  |  | Universities \& colleges ${ }^{1}$ |  |  |  |  |  | $\begin{array}{\|c\|} \hline \text { U\&C FFRDCS } \\ \hline \begin{array}{c} \text { Federal } \\ \text { Government } \end{array} \\ \hline \end{array}$ | Other <br> nonprofit <br> institutions$\|$Federal <br> Government ${ }^{5}$ | Nonprofit <br> FFRDCs <br> Federal <br> Government ${ }^{4}$ | Gross state product |  | R\&D intensity ${ }^{6}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Funding sector: |  | $\begin{aligned} & \text { Total } \\ & \text { R\&D } \end{aligned}$ |  | Total ${ }^{2}$ | Federal Government ${ }^{2}$ | Industry ${ }^{3}$ | Total | Federal Government | Nonfederal government | Industry | U \& C | Nonprofits |  |  |  |  |  |  |  |
| State | Rank |  |  |  |  |  |  | Thousan | ds of current | Ilars |  |  |  |  |  |  | Rank | Percent | Rank |
| Tennessee | 24 | 2,290,201 | 64,783 | 1,768,000 | D | D | 371,439 | 217,970 | 39,045 | 21,530 | 59,489 | 33,405 | 51,943 | 34,036 | 0 | 170,402,000 | 18 | 1.34 | 31 |
| Texas | 4 | 12,429,172 | 584,149 | 9,935,000 | 118,000 | 9,817,000 | 1,829,967 | 975,753 | 183,149 | 160,032 | 301,326 | 209,707 | 0 | 77,689 | 2,367 | 684,936,000 | 3 | 1.81 | 26 |
| Utah | 30 | 1,474,191 | 74,129 | 1,123,000 | D | D | 273,192 | 177,563 | 19,852 | 15,730 | 46,220 | 13,827 | 0 | 3,870 | 0 | 62,780,000 | 35 | 2.35 | 17 |
| Vermont | 43 | 388,598 | 4,065 | 318,000 | D | D | 64,791 | 36,773 | 2,718 | 7,112 | 11,896 | 6,292 | 0 | 1,742 | 0 | 17,206,000 | 50 | 2.26 | 20 |
| Virginia | 13 | 5,100,161 | 1,793,639 | 2,488,000 | 1,096,000 | 1,391,000 | 531,286 | 303,018 | 55,121 | 49,589 | 90,982 | 32,576 | 74,604 | 54,641 | 157,991 | 240,688,000 | 13 | 2.12 | 22 |
| Washington | 9 | 8,336,432 | 191,104 | 7,231,000 | D | D | 588,075 | 417,330 | 16,340 | 54,656 | 78,902 | 20,847 | 0 | 175,105 | 151,148 | 209,338,000 | 14 | 3.98 | 7 |
| West Virginia | 41 | 438,558 | 116,330 | 216,000 | D | D | 64,340 | 26,589 | 3,204 | 5,532 | 24,752 | 4,263 | 37,162 | 4,726 | 0 | 40,626,000 | 40 | 1.08 | 34 |
| Wisconsin | 22 | 2,565,541 | 41,110 | 1,949,000 | 72,000 | 1,877,000 | 560,648 | 313,140 | 44,989 | 19,771 | 116,601 | 66,147 | 0 | 14,783 | 0 | 165,570,000 | 20 | 1.55 | 28 |
| Wyoming | 50 | 65,923 | 15,508 | D | 0 | D | 47,197 | 19,109 | 2,730 | 3,206 | 20,648 | 1,504 | 0 | 3,218 | 0 | 17,457,000 | 49 | 0.38 | 50 |
| Other unknown | NA | 5,712,586 | 74,061 | 5,537,000 | 1,077,000 | 4,460,000 | 90,543 | 50,810 | 23,933 | 3,381 | 11,577 | 842 | 10,950 | 32 | 0 | NA | NA | NA | NA |
| Adjustment | NA | 6,017,955 | 404,439 | 0 | NA | NA | 673,770 | 172,900 | 74,130 | 46,689 | 261,738 | 118,312 | 13,647 | 407,617 | 85,024 | NA | NA | NA | NA |

${ }^{1}$ Adjustments have been made to university R\&D for 1998 and later years to eliminate double counting of funds passed through from one academic institution to another at the national level. State-level university $R \& D$ data have not been adjusted to correct for this double counting.
${ }^{2}$ Includes performance at industry FFRDCs.
${ }^{3}$ Industry sources of industry R\&D expenditures include all non-Federal sources of industry $R \& D$ expenditures.
${ }^{4}$ Includes all R\&D expenditures of the FFRDCs, over 95 percent of these expenditures are Federally funded nationally.
${ }^{5}$ Other sources of support for nonprofit institutions were unavailable by state. For 1999 total nonprofit performance is estimated at $\$ 8,191$ million. Industry provided an estimated $\$ 975$ million to the nonprofit sector, and nonprofit institutions provided an estimated $\$ 3,455$ million. These non-Federal-support amounts are included in the total R\&D column for the rows "United States, Total" and "other unknown". This is why, for these two columns, the amounts under "total R\&D" are greater than the sum of the components to the right, because those components do not include nonfederal support to nonprofit organizations.
${ }^{6} R \& D$ intensity is the ratio of total $R \& D$ performed in a state to the GSP of the state.
KEY: $\operatorname{FFRDCS}=$ federally funded research and development centers
U\&C = universities and colleges
NA = Not available
$D=$ Data withheld to avoid disclosing operations of individual companies
NOTES: Industry R\&D data by state are in reference to calendar years; other $R \& D$ data by state are in reference to fiscal years but may serve as approximations to calendar year data
The "other unknown" category reflects reported data that could not be assigned to a geographic location. The "adjustment" category reflects the difference in state totals (and other unknown) when reported on a fiscal year basis and the U.S. The "ther unknown" category reflectis reported data that could not be assigned to a geographic location. The "adjustment" category reflectis the e iifference in state totals (and other unknown) when reported on a fiscal year basis and the U.S.
Totals that have been adjusted to calendar year estimates. To protect confidentiality, Total R\&D for Alaska exclude Federal support to industry and Total R\&D for Wyoming exclude industry support to industry. Therefore, Total R\&D amounts are lower-bound estimates for these two states.

SOURCES: National Science Foundation/Division of Science Resources Statistics. These data were derived from four NSF surveys: Survey of Industrial R\&D; Survey of R\&D Expenditures at Universities and Colleges, Survey of Federal Funds for R\&D, and Survey of R\&D Funding and Performance by Nonprofit Organizations. Gross State Product data are from the U.S. Bureau of Economic Analysis.

