

TABLE 140. Federal obligations for research and development for selected agencies, by state or location: FYs 2005–13

(Dollars in millions)

| State or location    | 2005      | 2006      | 2007      | 2008      | 2009      | 2010      | 2011      | 2012      | 2013      |
|----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| All locations        | 116,585.5 | 119,302.2 | 124,900.3 | 125,091.8 | 138,977.9 | 138,156.5 | 132,793.6 | 135,997.1 | 122,986.8 |
| Alabama              | 3,108.2   | 2,198.2   | 2,247.6   | 2,782.2   | 3,023.3   | 3,476.9   | 5,202.1   | 5,159.1   | 4,716.4   |
| Alaska               | 495.1     | 212.1     | 264.0     | 222.2     | 247.3     | 235.6     | 196.5     | 159.1     | 185.5     |
| Arizona              | 2,958.8   | 2,459.6   | 2,422.4   | 2,449.2   | 3,141.5   | 3,425.6   | 2,917.0   | 2,405.2   | 2,369.3   |
| Arkansas             | 165.0     | 161.8     | 177.7     | 145.3     | 171.2     | 181.8     | 178.6     | 183.8     | 167.3     |
| California           | 19,964.3  | 26,897.6  | 26,987.2  | 19,938.7  | 26,988.8  | 27,226.9  | 22,768.9  | 18,036.3  | 16,180.8  |
| Colorado             | 2,264.9   | 2,188.7   | 2,797.5   | 2,668.1   | 3,862.3   | 4,348.3   | 3,815.5   | 3,744.7   | 3,394.0   |
| Connecticut          | 2,399.6   | 1,946.6   | 2,116.8   | 1,815.4   | 2,364.5   | 2,193.5   | 2,426.0   | 2,231.1   | 2,516.6   |
| Delaware             | 94.2      | 112.7     | 130.6     | 144.3     | 225.2     | 129.1     | 114.7     | 108.7     | 112.3     |
| District of Columbia | 4,161.8   | 4,193.2   | 4,277.7   | 17,537.2  | 4,267.9   | 3,890.1   | 3,013.5   | 3,339.3   | 3,908.1   |
| Florida              | 2,590.0   | 3,346.5   | 4,078.2   | 2,290.4   | 3,734.4   | 3,142.2   | 2,481.8   | 2,355.8   | 2,282.0   |
| Georgia              | 2,181.8   | 1,750.8   | 1,686.2   | 1,386.0   | 1,957.6   | 1,520.0   | 1,421.8   | 1,133.3   | 1,130.0   |
| Hawaii               | 600.3     | 380.3     | 379.2     | 347.8     | 387.5     | 389.4     | 403.6     | 382.5     | 348.0     |
| Idaho                | 290.3     | 300.0     | 287.5     | 355.4     | 388.0     | 479.0     | 430.2     | 446.9     | 380.8     |
| Illinois             | 2,127.8   | 2,003.5   | 2,145.1   | 2,168.5   | 2,745.5   | 2,631.3   | 2,878.1   | 2,399.5   | 2,327.5   |
| Indiana              | 566.8     | 583.2     | 596.6     | 672.0     | 1,109.2   | 988.7     | 903.0     | 838.3     | 692.6     |
| Iowa                 | 487.7     | 548.7     | 662.4     | 634.9     | 683.2     | 909.1     | 695.3     | 613.3     | 560.5     |
| Kansas               | 357.8     | 294.5     | 317.8     | 300.4     | 464.2     | 347.5     | 367.8     | 231.6     | 234.3     |
| Kentucky             | 296.3     | 240.0     | 222.2     | 252.5     | 319.1     | 287.4     | 242.0     | 308.1     | 306.8     |
| Louisiana            | 443.7     | 322.6     | 419.4     | 406.1     | 405.6     | 330.8     | 597.3     | 313.8     | 278.0     |
| Maine                | 292.1     | 229.2     | 378.8     | 168.0     | 194.2     | 163.1     | 180.0     | 247.8     | 169.9     |
| Maryland             | 12,500.8  | 12,746.6  | 11,905.8  | 13,312.7  | 15,970.5  | 15,879.0  | 15,750.6  | 15,597.8  | 15,605.9  |
| Massachusetts        | 6,591.9   | 6,875.8   | 7,528.9   | 6,883.1   | 9,047.0   | 8,747.5   | 7,758.4   | 6,279.3   | 5,690.8   |
| Michigan             | 1,177.0   | 1,700.3   | 1,726.1   | 1,866.5   | 2,427.4   | 2,509.7   | 2,153.4   | 2,206.4   | 1,826.1   |
| Minnesota            | 768.3     | 1,241.6   | 1,386.8   | 1,393.0   | 1,550.6   | 1,062.6   | 949.3     | 961.1     | 939.7     |
| Mississippi          | 438.2     | 554.9     | 433.9     | 435.2     | 384.6     | 421.6     | 588.1     | 542.6     | 567.7     |
| Missouri             | 4,201.7   | 1,315.6   | 1,220.6   | 1,111.3   | 1,284.6   | 1,151.0   | 1,193.3   | 1,124.5   | 1,057.9   |
| Montana              | 182.1     | 151.3     | 653.6     | 159.5     | 171.5     | 139.2     | 181.7     | 190.2     | 134.5     |
| Nebraska             | 193.1     | 178.1     | 230.1     | 204.6     | 220.2     | 239.8     | 262.1     | 261.9     | 200.5     |
| Nevada               | 593.3     | 436.2     | 321.1     | 312.6     | 558.2     | 379.8     | 478.1     | 481.7     | 584.6     |
| New Hampshire        | 513.8     | 400.4     | 339.9     | 294.3     | 458.4     | 350.5     | 406.0     | 490.7     | 296.2     |
| New Jersey           | 2,524.8   | 2,172.7   | 2,192.0   | 2,192.7   | 2,492.2   | 2,853.0   | 2,582.7   | 2,167.0   | 1,726.9   |
| New Mexico           | 3,593.4   | 3,315.0   | 3,478.0   | 3,502.9   | 3,695.6   | 3,338.0   | 3,456.2   | 3,378.6   | 3,421.5   |
| New York             | 5,320.1   | 5,368.2   | 5,367.6   | 4,651.2   | 6,242.0   | 5,602.2   | 5,042.1   | 4,727.2   | 4,605.2   |
| North Carolina       | 1,806.1   | 1,771.4   | 1,828.4   | 1,772.6   | 2,021.8   | 2,151.2   | 2,060.3   | 1,922.3   | 1,759.2   |
| North Dakota         | 117.9     | 117.9     | 115.8     | 98.3      | 101.2     | 119.6     | 117.7     | 88.1      | 89.5      |
| Ohio                 | 2,961.5   | 2,723.9   | 3,660.9   | 2,580.4   | 4,459.5   | 4,098.8   | 3,554.7   | 3,436.3   | 2,425.7   |
| Oklahoma             | 400.7     | 271.1     | 253.2     | 260.8     | 370.0     | 429.6     | 462.5     | 449.8     | 262.4     |
| Oregon               | 650.1     | 510.1     | 506.4     | 581.1     | 635.2     | 675.3     | 711.1     | 632.1     | 529.0     |
| Pennsylvania         | 3,677.4   | 3,299.7   | 3,359.9   | 3,279.4   | 4,297.6   | 4,963.4   | 4,513.0   | 3,724.9   | 3,295.4   |
| Rhode Island         | 888.8     | 622.5     | 627.8     | 643.7     | 679.5     | 669.8     | 610.1     | 557.4     | 486.4     |

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|------------------------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| South Carolina               | 492.7   | 373.8   | 421.7   | 453.0   | 661.6   | 662.2   | 496.7   | 555.4    | 397.5    |
| South Dakota                 | 70.0    | 75.9    | 61.9    | 76.4    | 79.3    | 75.0    | 61.1    | 63.2     | 56.6     |
| Tennessee                    | 1,426.0 | 1,489.1 | 1,907.9 | 1,689.9 | 2,081.4 | 2,104.8 | 1,898.6 | 2,111.9  | 2,118.6  |
| Texas                        | 5,187.0 | 5,914.7 | 6,692.8 | 5,029.6 | 6,031.1 | 6,896.1 | 5,475.4 | 5,619.7  | 5,234.2  |
| Utah                         | 1,058.2 | 845.8   | 991.3   | 699.9   | 1,168.5 | 1,708.9 | 1,756.4 | 972.3    | 918.6    |
| Vermont                      | 262.6   | 105.5   | 108.4   | 121.0   | 151.4   | 142.3   | 124.4   | 103.4    | 103.0    |
| Virginia                     | 8,746.5 | 8,994.3 | 9,088.2 | 9,282.2 | 9,381.3 | 9,111.7 | 8,287.1 | 8,130.0  | 6,487.5  |
| Washington                   | 2,641.2 | 4,087.1 | 4,751.1 | 4,339.5 | 4,156.7 | 3,915.5 | 4,931.4 | 2,757.4  | 3,433.5  |
| West Virginia                | 807.5   | 301.4   | 219.1   | 224.6   | 262.6   | 312.8   | 239.8   | 263.3    | 171.4    |
| Wisconsin                    | 651.8   | 635.7   | 671.4   | 660.9   | 885.7   | 795.6   | 742.2   | 734.3    | 654.0    |
| Wyoming                      | 37.5    | 36.2    | 36.6    | 47.4    | 65.2    | 36.7    | 37.2    | 75.6     | 41.2     |
| Outlying areas               | 160.6   | 161.2   | 178.4   | 160.3   | 237.2   | 263.2   | 4,642.5 | 193.0    | 228.6    |
| Puerto Rico                  | 101.4   | 98.8    | 85.9    | 84.9    | 96.1    | 94.8    | 97.4    | 71.3     | 82.6     |
| Other areas <sup>a</sup>     | 59.2    | 62.4    | 92.5    | 75.4    | 141.1   | 168.4   | 4,545.1 | 121.6    | 146.1    |
| Offices abroad <sup>b</sup>  | 96.5    | 138.0   | 39.9    | 86.8    | 67.8    | 54.0    | 35.7    | 91.6     | 165.5    |
| Undistributable <sup>c</sup> | NA      | 20,468.0 | 15,210.8 |

NA = not available; data collected for this table were not recorded at that level in that particular fiscal year.

<sup>a</sup> Includes America Samoa, Baker Island, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Midway Islands, Navassa Island, Northern Mariana Islands, Palmyra Atoll, U.S. Virgin Islands, and Wake Island and, in FY 2011, other undistributed funds.

<sup>b</sup> Includes R&D performed or administered in foreign countries by the U.S. government.

<sup>c</sup> Contains obligations for which the location of performance cannot be determined.

NOTES: Because of rounding, detail may not add to total. Only 11 agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense (DOD), Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency (EPA); the National Aeronautics and Space Administration (NASA); and the National Science Foundation. These obligations represented over 98% of the total federal R&D obligations in FY 2013. Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by reporting agencies, corresponding corrections to geographic distributions are rarely obtainable. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not the numerous subcontractors who perform much of the R&D. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. In FY 2006, NASA reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. Between FY 2006 and FY 2007, NASA's R&D obligations decreased for two reasons: (1) in FY 2007, NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for \$850 million of the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant. In FY 2010, EPA was unable to report R&D by performer or by location. Percentage distributions calculated from EPA's data submission for FYs 2009–11 were used to estimate its FY 2010 R&D by performer and its location. FYs 2009 and 2010 obligations include additional funding provided by the American Recovery and Reinvestment Act of 2009.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.