

TABLE 131

## Federal obligations for R&amp;D plant for selected agencies, by state or location: FYs 2011–19

(Dollars in millions)

| State or location    | 2011    | 2012    | 2013    | 2014    | 2015    | 2016    | 2017    | 2018    | 2019    |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| All locations        | 4,100.5 | 2,088.9 | 1,856.0 | 2,178.2 | 2,791.8 | 2,401.7 | 2,594.1 | 3,806.0 | 4,329.5 |
| Alabama              | 93.2    | 3.4     | 39.3    | 12.5    | 14.5    | 1.6     | 9.1     | 127.7   | 125.3   |
| Alaska               | 6.3     | 6.6     | 7.8     | 8.1     | 8.0     | 9.6     | 7.1     | 16.6    | 6.6     |
| Arizona              | 30.3    | 2.9     | 1.0     | 29.2    | 85.9    | 98.7    | 61.8    | 16.3    | 12.5    |
| Arkansas             | 6.4     | 5.9     | 3.0     | 5.6     | 5.2     | 3.7     | 4.8     | 2.6     | 0.0     |
| California           | 997.4   | 117.9   | 166.2   | 246.5   | 307.4   | 451.4   | 479.6   | 656.3   | 676.5   |
| Colorado             | 140.6   | 108.2   | 150.9   | 170.4   | 74.1    | 112.7   | 45.7    | 266.9   | 365.1   |
| Connecticut          | 93.7    | 1.7     | 1.5     | 3.1     | 1.6     | 1.3     | 1.6     | 3.2     | 1.5     |
| Delaware             | 0.4     | 0.8     | 0.2     | 1.1     | 0.1     | 1.4     | 0.5     | 1.9     | 9.6     |
| District of Columbia | 236.9   | 135.4   | 167.5   | 225.1   | 39.8    | 49.8    | 32.5    | 324.9   | 150.5   |
| Florida              | 90.4    | 47.9    | 37.6    | 104.0   | 29.7    | 28.7    | 18.3    | 80.3    | 33.8    |
| Georgia              | 45.4    | 50.8    | 92.4    | 37.3    | 5.3     | 11.9    | 143.9   | 11.2    | 6.6     |
| Hawaii               | 23.3    | 15.4    | 13.0    | 15.2    | 14.2    | 14.8    | 14.8    | 19.2    | 24.3    |
| Idaho                | 30.9    | 41.0    | 1.2     | 2.6     | 80.9    | 89.1    | 116.9   | 0.0     | 3.4     |
| Illinois             | 115.4   | 245.0   | 103.4   | 108.6   | 126.0   | 176.9   | 207.2   | 383.0   | 471.3   |
| Indiana              | 6.6     | 2.2     | 2.6     | 1.4     | 8.5     | 8.3     | 4.1     | 4.2     | 8.9     |
| Iowa                 | 7.1     | 8.0     | 7.5     | 3.7     | 2.5     | 3.8     | 4.2     | 17.6    | 2.1     |
| Kansas               | 4.4     | 5.5     | 2.5     | 1.0     | 815.7   | 0.8     | 14.0    | 10.9    | 12.2    |
| Kentucky             | 4.6     | 8.5     | 0.8     | 0.7     | 1.2     | 3.2     | *       | 2.3     | 6.8     |
| Louisiana            | 14.9    | 1.2     | 12.2    | 1.9     | 0.7     | 2.7     | 17.3    | 21.1    | 25.9    |
| Maine                | 1.5     | 0.1     | 1.7     | 0.8     | 1.1     | 0.9     | 0.9     | 0.5     | 0.4     |
| Maryland             | 404.9   | 235.3   | 263.7   | 202.7   | 208.3   | 328.5   | 258.9   | 478.5   | 648.4   |
| Massachusetts        | 30.8    | 28.0    | 13.9    | 26.8    | 24.9    | 29.9    | 30.4    | 18.4    | 39.8    |
| Michigan             | 3.5     | 23.8    | 24.5    | 59.6    | 95.7    | 107.5   | 103.9   | 98.9    | 84.6    |
| Minnesota            | 24.0    | 2.1     | 2.2     | 3.1     | 3.1     | 2.7     | 1.6     | 1.1     | 3.0     |
| Mississippi          | 22.0    | 13.6    | 14.5    | 14.1    | 17.6    | 18.6    | 16.3    | 15.4    | 13.6    |
| Missouri             | 4.2     | 7.1     | 2.9     | 9.8     | 5.1     | 12.2    | 6.0     | 5.0     | 11.1    |
| Montana              | 0.4     | 0.0     | 1.0     | 0.4     | 0.8     | 3.7     | 0.4     | 2.8     | *       |
| Nebraska             | 0.8     | 0.5     | 0.5     | 1.2     | 2.7     | 0.2     | *       | 0.3     | 0.8     |
| Nevada               | 4.1     | 1.1     | 0.3     | 0.6     | 0.2     | 0.3     | 14.0    | 27.5    | 1.0     |
| New Hampshire        | 1.6     | 2.0     | 1.3     | 0.5     | 0.6     | 2.0     | 0.3     | 2.3     | 1.3     |
| New Jersey           | 40.0    | 52.1    | 55.5    | 71.5    | 44.8    | 46.2    | 47.4    | 49.1    | 80.8    |
| New Mexico           | 96.8    | 54.2    | 82.9    | 90.4    | 86.0    | 66.3    | 39.6    | 87.1    | 256.8   |
| New York             | 210.5   | 186.2   | 94.1    | 172.9   | 204.3   | 153.8   | 148.3   | 98.7    | 129.7   |
| North Carolina       | 8.8     | 10.7    | 7.4     | 8.0     | 6.4     | 7.7     | 12.1    | 8.7     | 22.9    |
| North Dakota         | 0.4     | 0.7     | 0.0     | *       | 0.2     | 0.3     | 0.5     | 0.7     | 0.2     |
| Ohio                 | 55.2    | 61.6    | 4.7     | 4.2     | 7.7     | 120.9   | 76.2    | 82.9    | 94.5    |
| Oklahoma             | 13.1    | 10.6    | 8.2     | 7.4     | 9.8     | 1.1     | 3.9     | 3.2     | 10.8    |
| Oregon               | 18.1    | 9.6     | 9.6     | 12.2    | 14.2    | 17.6    | 144.8   | 103.9   | 144.4   |
| Pennsylvania         | 15.2    | 23.3    | 13.0    | 10.4    | 34.8    | 24.7    | 25.5    | 17.3    | 12.3    |
| Rhode Island         | 2.6     | 6.5     | 6.2     | 18.0    | 19.5    | 27.8    | 36.7    | 19.1    | 27.7    |
| South Carolina       | 19.0    | 16.2    | 13.2    | 16.0    | 16.5    | 25.8    | 19.2    | 20.5    | 21.8    |
| South Dakota         | 0.8     | 0.6     | 1.1     | 1.8     | 0.3     | 1.1     | 1.6     | 0.6     | 0.3     |
| Tennessee            | 315.3   | 248.3   | 223.4   | 292.9   | 264.4   | 194.7   | 250.1   | 430.8   | 513.1   |
| Texas                | 428.7   | 34.8    | 15.0    | 9.2     | 9.3     | 29.7    | 33.0    | 70.6    | 64.5    |
| Utah                 | 1.5     | 2.0     | 3.6     | 1.4     | 0.4     | 0.8     | 1.0     | 0.8     | 0.0     |
| Vermont              | 1.4     | 0.5     | 0.3     | 1.6     | *       | 0.3     | *       | 1.5     | 0.8     |
| Virginia             | 344.7   | 169.7   | 131.9   | 103.9   | 30.6    | 82.7    | 129.7   | 122.0   | 103.8   |
| Washington           | 48.8    | 52.3    | 40.8    | 35.3    | 37.0    | 13.2    | 4.3     | 36.2    | 55.9    |
| West Virginia        | 21.4    | 14.9    | 0.2     | 14.6    | 14.1    | *       | 1.0     | 19.8    | 0.8     |

TABLE 131

**Federal obligations for R&D plant for selected agencies, by state or location: FYs 2011–19**

(Dollars in millions)

| State or location           | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|-----------------------------|------|------|------|------|------|------|------|------|------|
| Wisconsin                   | 10.0 | 11.3 | 5.7  | 7.2  | 9.0  | 8.2  | 2.0  | 4.2  | 12.5 |
| Wyoming                     | 0.5  | 0.3  | 1.2  | 0.7  | 0.5  | 0.0  | 0.0  | 1.0  | 10.6 |
| Outlying areas              | 1.5  | 0.5  | 0.6  | 0.8  | 0.6  | 0.7  | 0.6  | 9.3  | 18.3 |
| Puerto Rico                 | 1.5  | 0.5  | 0.6  | 0.8  | 0.6  | 0.7  | 0.6  | 9.3  | 15.5 |
| Other areas <sup>a</sup>    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  |
| Offices abroad <sup>b</sup> | 0.0  | 0.0  | 0.0  | 0.0  | 0.4  | *    | 0.6  | 0.9  | 0.0  |
| Undistributed <sup>c</sup>  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  |

\* = amount greater than \$0 but less than \$50,000.

<sup>a</sup> Includes American 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.

<sup>b</sup> Includes federal obligations for R&D plant located in foreign countries.

<sup>c</sup> Undistributed totals include Department of Defense (DOD) obligations for which the location of performance is not reported. It includes DOD obligations for industry R&D that were included in individual state totals prior to FY 2012 and obligations for other performers that were not reported prior to FY 2011.

**Note(s):**

Because of rounding, detail may not add to total. Eleven agencies are required to report data for this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. Obligations of these 11 agencies represented more than 98% of federal R&D plant obligations in FY 2019. 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. Starting with volume 62 (FYs 2012–14), an "undistributed" category was added to the geographic location tables for DOD obligations for which the location of performance is not reported. It includes DOD obligations for industry R&D that were included in individual state totals prior to FY 2012 and DOD obligations for other performers that were not reported prior to FY 2011. This change was applied retroactively to FY 2011 data. See technical table A-2 for additional notes associated with the agencies listed in this table.

**Source(s):**

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