

TABLE 140. Federal obligations for research and development for selected agencies, by state and other locations: FYs 2003–11

(Dollars in millions)

State or location	2003	2004	2005	2006	2007	2008	2009	2010	2011
All locations	101,366.4	109,732.9	116,585.5	119,302.2	124,900.3	125,091.8	138,977.9	138,156.5	132,793.6
Alabama	3,211.8	3,035.5	3,108.2	2,198.2	2,247.6	2,782.2	3,023.3	3,476.9	5,202.1
Alaska	399.4	461.3	495.1	212.1	264.0	222.2	247.3	235.6	196.5
Arizona	2,385.4	2,643.7	2,958.8	2,459.6	2,422.4	2,449.2	3,141.5	3,425.6	2,917.0
Arkansas	145.4	146.7	165.0	161.8	177.7	145.3	171.2	181.8	178.6
California	20,169.6	19,259.4	19,964.3	26,897.6	26,987.2	19,938.7	26,988.8	27,226.9	22,768.9
Colorado	1,735.0	2,068.0	2,264.9	2,188.7	2,797.5	2,668.1	3,862.3	4,348.3	3,815.5
Connecticut	2,068.0	2,122.5	2,399.6	1,946.6	2,116.8	1,815.4	2,364.5	2,193.5	2,426.0
Delaware	95.4	89.7	94.2	112.7	130.6	144.3	225.2	129.1	114.7
District of Columbia	2,985.5	3,329.4	4,161.8	4,193.2	4,277.7	17,537.2	4,267.9	3,890.1	3,008.0
Florida	2,854.1	3,265.0	2,590.0	3,346.5	4,078.2	2,290.4	3,734.4	3,142.2	2,481.8
Georgia	2,133.0	1,906.5	2,181.8	1,750.8	1,686.2	1,386.0	1,957.6	1,520.0	1,421.8
Hawaii	413.9	488.2	600.3	380.3	379.2	347.8	387.5	389.4	403.6
Idaho	217.8	288.5	290.3	300.0	287.5	355.4	388.0	479.0	430.2
Illinois	1,934.7	1,880.1	2,127.8	2,003.5	2,145.1	2,168.5	2,745.5	2,631.3	2,878.1
Indiana	573.7	556.7	566.8	583.2	596.6	672.0	1,109.2	988.7	903.0
Iowa	499.5	538.3	487.7	548.7	662.4	634.9	683.2	909.1	695.3
Kansas	268.7	287.4	357.8	294.5	317.8	300.4	464.2	347.5	367.8
Kentucky	246.7	251.8	296.3	240.0	222.2	252.5	319.1	287.4	242.0
Louisiana	453.4	446.7	443.7	322.6	419.4	406.1	405.6	330.8	597.3
Maine	166.7	210.3	292.1	229.2	378.8	168.0	194.2	163.1	180.0
Maryland	8,027.3	12,608.6	12,500.8	12,746.6	11,905.8	13,312.7	15,970.5	15,879.0	15,750.6
Massachusetts	5,491.7	5,963.6	6,591.9	6,875.8	7,528.9	6,883.1	9,047.0	8,747.5	7,758.4
Michigan	1,693.1	1,117.8	1,177.0	1,700.3	1,726.1	1,866.5	2,427.4	2,509.7	2,153.4
Minnesota	866.2	831.3	768.3	1,241.6	1,386.8	1,393.0	1,550.6	1,062.6	949.3
Mississippi	1,181.0	1,598.7	438.2	554.9	433.9	435.2	384.6	421.6	588.1
Missouri	1,349.5	3,058.8	4,201.7	1,315.6	1,220.6	1,111.3	1,284.6	1,151.0	1,193.3
Montana	131.2	188.8	182.1	151.3	653.6	159.5	171.5	139.2	181.7
Nebraska	168.0	210.5	193.1	178.1	230.1	204.6	220.2	239.8	262.1
Nevada	418.9	555.0	593.3	436.2	321.1	312.6	558.2	379.8	478.1
New Hampshire	511.9	422.1	513.8	400.4	339.9	294.3	458.4	350.5	406.0
New Jersey	2,087.6	2,273.7	2,524.8	2,172.7	2,192.0	2,192.7	2,492.2	2,853.0	2,582.7
New Mexico	3,090.1	3,363.2	3,593.4	3,315.0	3,478.0	3,502.9	3,695.6	3,338.0	3,456.2
New York	4,382.5	4,505.3	5,320.1	5,368.2	5,367.6	4,651.2	6,242.0	5,602.2	5,042.1
North Carolina	1,617.3	1,683.6	1,806.1	1,771.4	1,828.4	1,772.6	2,021.8	2,151.2	2,060.3
North Dakota	107.3	108.6	117.9	117.9	115.8	98.3	101.2	119.6	117.7
Ohio	2,967.1	2,794.2	2,961.5	2,723.9	3,660.9	2,580.4	4,459.5	4,098.8	3,554.7
Oklahoma	570.2	498.5	400.7	271.1	253.2	260.8	370.0	429.6	462.5
Oregon	514.2	504.8	650.1	510.1	506.4	581.1	635.2	675.3	711.1
Pennsylvania	3,989.3	3,731.1	3,677.4	3,299.7	3,359.9	3,279.4	4,297.6	4,963.4	4,513.0

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(Dollars in millions)

State or location	2003	2004	2005	2006	2007	2008	2009	2010	2011
Puerto Rico	112.2	100.9	101.4	98.8	85.9	84.9	96.1	94.8	97.4
Rhode Island	565.6	642.1	888.8	622.5	627.8	643.7	679.5	669.8	610.1
South Carolina	454.0	384.3	492.7	373.8	421.7	453.0	661.6	662.2	496.7
South Dakota	54.8	70.0	70.0	75.9	61.9	76.4	79.3	75.0	61.1
Tennessee	1,130.6	1,382.0	1,426.0	1,489.1	1,907.9	1,689.9	2,081.4	2,104.8	1,898.6
Texas	5,414.4	5,506.7	5,187.0	5,914.7	6,692.8	5,029.6	6,031.1	6,896.1	5,475.4
Utah	803.4	1,183.7	1,058.2	845.8	991.3	699.9	1,168.5	1,708.9	1,756.4
Vermont	201.1	417.1	262.6	105.5	108.4	121.0	151.4	142.3	124.4
Virginia	6,709.2	7,298.3	8,746.5	8,994.3	9,088.2	9,282.2	9,381.3	9,111.7	8,292.6
Washington	2,442.2	2,311.3	2,641.2	4,087.1	4,751.1	4,339.5	4,156.7	3,915.5	4,931.4
West Virginia	383.4	315.7	807.5	301.4	219.1	224.6	262.6	312.8	239.8
Wisconsin	658.4	645.9	651.8	635.7	671.4	660.9	885.7	795.6	742.2
Wyoming	43.0	47.6	37.5	36.2	36.6	47.4	65.2	36.7	37.2
Offices abroad <sup>a</sup>	60.9	99.4	96.5	138.0	39.9	86.8	67.8	54.0	35.7
Other areas <sup>b</sup>	211.1	34.1	59.2	62.4	92.5	75.4	141.1	168.4	4,545.1

<sup>a</sup> Includes R&D performed or administered in foreign countries by the U.S. government.<sup>b</sup> Includes America Samoa, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, U.S. Virgin Islands, and Wake Island and, as of FY 2011, other undistributed funds.

NOTES: 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 (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% or more of the total federal R&D obligations in FY 2011. 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 2003, the Substance Abuse and Mental Health Services Administration reclassified as non-R&D some of its funding categories that had been considered R&D in prior years. 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 obligations as 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.

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