

TABLE 1. Federal obligations for research and development, by character of work, and for R&D plant: FYs 1951–2015
(Dollars in thousands)

Fiscal year	Total	Total R&D	Total research	Basic research	Applied research	Development	R&D plant
1951	1,851,571.0	1,521,527.0	NA	NA	NA	NA	330,044.0
1952	2,216,848.0	1,909,665.0	NA	120,945.0	NA	NA	307,183.0
1953	2,167,456.0	1,919,543.0	NA	115,997.0	NA	NA	247,913.0
1954	1,918,046.0	1,761,840.0	NA	116,033.0	NA	NA	156,206.0
1955	2,251,894.0	2,044,593.0	NA	130,068.0	NA	NA	207,301.0
1956	3,266,903.0	2,988,203.0	851,947.0	206,441.0	645,506.0	2,136,256.0	278,700.0
1957	4,389,237.0	3,932,001.0	924,547.0	262,348.0	662,199.0	3,007,454.0	457,236.0
1958	4,906,015.0	4,569,722.0	1,078,807.0	334,543.0	744,264.0	3,490,915.0	336,293.0
1959	7,122,610.0	6,693,510.0	1,340,253.0	465,981.0	874,272.0	5,353,257.0	429,100.0
1960	8,080,015.0	7,551,746.0	1,872,509.0	590,374.0	1,282,135.0	5,679,237.0	528,269.0
1961	9,607,023.0	9,058,623.0	2,477,944.0	814,513.0	1,663,431.0	6,580,679.0	548,400.0
1962	11,069,059.0	10,289,947.0	3,004,795.0	986,314.0	2,018,481.0	7,285,152.0	779,112.0
1963	13,662,879.0	12,494,611.0	3,507,903.0	1,151,753.0	2,356,150.0	8,986,708.0	1,168,268.0
1964	15,323,870.0	14,225,354.0	3,874,452.0	1,303,000.0	2,571,452.0	10,350,902.0	1,098,516.0
1965	15,745,852.0	14,614,249.0	4,247,230.0	1,435,469.0	2,811,761.0	10,367,019.0	1,131,603.0
1966	16,178,640.0	15,320,334.0	4,660,247.0	1,579,181.0	3,081,066.0	10,660,087.0	858,306.0
1967	17,149,186.0	16,529,099.0	4,631,390.0	1,845,847.0	2,785,543.0	11,897,709.0	620,087.0
1968	16,525,038.0	15,921,208.0	4,781,062.0	1,840,562.0	2,940,500.0	11,140,146.0	603,830.0
1969	16,309,900.0	15,640,888.0	4,644,890.0	1,944,773.0	2,700,117.0	10,995,998.0	669,012.0
1970	15,863,385.0	15,338,937.0	4,900,798.0	1,925,908.0	2,974,890.0	10,438,139.0	524,448.0
1971	16,153,756.0	15,542,512.0	5,123,171.0	1,980,141.0	3,143,030.0	10,419,341.0	611,244.0
1972	17,097,951.0	16,495,895.0	5,547,696.0	2,186,937.0	3,360,759.0	10,948,199.0	602,056.0
1973	17,574,486.0	16,800,153.0	5,581,429.0	2,232,006.0	3,349,423.0	11,218,724.0	774,333.0
1974	18,176,457.0	17,410,128.0	6,175,240.0	2,387,681.0	3,787,559.0	11,234,888.0	766,329.0
1975	19,859,548.0	19,038,818.0	6,729,708.0	2,588,427.0	4,141,281.0	12,309,110.0	820,730.0
1976	21,616,382.0	20,779,658.0	7,619,332.0	2,767,454.0	4,851,878.0	13,160,326.0	836,724.0
1977	24,817,577.0	23,450,377.0	8,514,115.0	3,258,640.0	5,255,475.0	14,936,262.0	1,367,200.0
1978	27,140,849.0	25,845,137.0	9,606,758.0	3,698,604.0	5,908,154.0	16,238,379.0	1,295,712.0
1979	29,620,597.0	28,145,142.0	10,535,005.0	4,192,665.0	6,342,340.0	17,610,137.0	1,475,455.0
1980	31,386,095.0	29,830,432.0	11,597,378.0	4,674,156.0	6,923,222.0	18,233,054.0	1,555,663.0
1981	34,589,634.0	33,103,924.0	12,212,780.0	5,041,295.0	7,171,485.0	20,891,144.0	1,485,710.0
1982	37,822,363.0	36,432,589.0	13,022,185.0	5,481,605.0	7,540,580.0	23,410,404.0	1,389,774.0
1983	40,009,032.0	38,711,537.0	14,253,525.0	6,260,131.0	7,993,394.0	24,458,012.0	1,297,495.0
1984	44,012,149.0	42,224,865.0	14,978,773.0	7,067,359.0	7,911,414.0	27,246,092.0	1,787,284.0
1985	50,180,369.0	48,359,565.0	16,133,421.0	7,818,682.0	8,314,739.0	32,226,144.0	1,820,804.0
1986	52,951,181.0	51,412,364.0	16,502,199.0	8,153,076.0	8,349,123.0	34,910,165.0	1,538,817.0
1987	57,099,656.0	55,253,693.0	17,940,521.0	8,942,425.0	8,998,096.0	37,313,172.0	1,845,963.0
1988	58,826,512.0	56,769,425.0	18,650,145.0	9,473,618.0	9,176,527.0	38,119,280.0	2,057,087.0
1989	63,571,605.0	61,406,484.0	20,765,531.0	10,602,011.0	10,163,520.0	40,640,953.0	2,165,121.0
1990	65,831,189.0	63,559,471.0	21,622,364.0	11,285,593.0	10,336,771.0	41,937,107.0	2,271,718.0
1991	64,147,951.0	61,295,152.0	23,968,377.0	12,170,794.0	11,797,583.0	37,326,775.0	2,852,799.0
1992	68,577,184.0	65,592,590.0	24,490,598.0	12,489,864.0	12,000,734.0	41,101,992.0	2,984,594.0
1993	70,414,697.0	67,314,025.0	26,890,497.0	13,399,121.0	13,491,376.0	40,423,528.0	3,100,672.0
1994	69,450,776.0	67,235,390.0	27,411,209.0	13,523,476.0	13,887,733.0	39,824,181.0	2,215,386.0
1995	70,442,935.0	68,186,798.0	28,434,396.0	13,877,031.0	14,557,365.0	39,752,402.0	2,256,137.0
1996	69,399,164.0	67,653,047.0	28,259,764.0	14,464,035.0	13,795,729.0	39,393,283.0	1,746,117.0
1997	71,753,430.0	69,826,779.0	29,365,289.0	14,941,892.0	14,423,397.0	40,461,490.0	1,926,651.0
1998	73,913,988.0	72,100,724.0	30,922,269.0	15,613,012.0	15,309,257.0	41,178,455.0	1,813,264.0
1999	77,386,368.0	75,340,622.0	33,527,514.0	17,443,653.0	16,083,861.0	41,813,108.0	2,045,746.0
2000	80,403,169.0	75,910,322.0	38,470,630.0	19,569,849.0	18,900,781.0	37,439,692.0	4,492,847.0
2001	88,562,348.0	84,492,520.0	44,713,736.0	21,958,136.0	22,755,600.0	39,778,784.0	4,069,828.0
2002	98,013,347.0	93,708,604.0	48,006,711.0	23,668,345.0	24,338,366.0	45,701,893.0	4,304,743.0
2003	107,793,778.0	103,527,260.0	51,071,843.0	24,751,441.0	26,320,402.0	52,455,417.0	4,266,518.0
2004	116,068,604.0	112,074,452.0	53,357,811.0	26,120,663.0	27,237,148.0	58,716,641.0	3,994,152.0

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(Dollars in thousands)

Fiscal year	Total	Total R&D	Total research	Basic research	Applied research	Development	R&D plant
2005	122,618,991.0	118,847,864.0	53,738,245.0	27,140,335.0	26,597,910.0	65,109,619.0	3,771,127.0
2006	123,854,731.0	121,729,949.0	53,535,650.0	26,584,592.0	26,951,058.0	68,194,299.0	2,124,782.0
2007	129,431,246.0	127,262,861.0	54,093,565.0	26,865,786.0	27,227,779.0	73,169,296.0	2,168,385.0
2008	129,049,527.3	127,105,666.3	53,893,678.0	27,153,966.0	26,739,712.0	73,211,988.3	1,943,861.0
2009	144,758,067.3	141,090,055.2	63,691,871.9	32,879,356.9	30,812,515.0	77,398,183.4	3,668,012.0
2010	146,967,799.9	140,354,521.1	63,727,973.3	31,795,342.2	31,932,631.1	76,626,547.9	6,613,278.8
2011	139,661,527.1	135,490,831.7	58,023,706.0	29,313,593.3	28,710,112.8	77,467,125.6	4,170,695.4
2012	140,635,823.4	138,485,125.4	61,946,867.7	30,958,892.9	30,987,974.9	76,538,257.7	2,150,698.0
2013	127,297,334.7	125,387,530.7	59,199,761.8	29,779,403.8	29,420,357.9	66,187,768.9	1,909,804.0
2014 (preliminary)	130,807,681.6	128,587,705.1	62,663,000.3	31,602,455.8	31,060,544.5	65,924,704.8	2,219,976.4
2015 (preliminary)	133,739,567.3	130,636,684.2	62,595,383.6	31,455,857.7	31,139,525.9	68,041,300.7	3,102,883.1

NA = not available; data were not collected at this level of detail.

NOTES: Because of rounding, detail may not add to total. In FY 2000, the National Institutes of Health reclassified all its development activities as research. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the International Space Station (ISS) as a physical asset, reclassified ISS Research as equipment, and transferred funding for the program from R&D to R&D plant. 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 the ISS obligations as R&D plant. In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant. Beginning in FY 2011, Department of Defense totals include additional classified R&D projects not previously reported by its subagencies. 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.