

TABLE 24

Federal funding for R&D and R&D plant for national defense and civilian functions: FYs 1955–2019

(Millions of dollars and percent distribution)

Fiscal year	Current \$millions			% distribution		
	Total	National defense	Civilian functions	Total	National defense	Civilian functions
R&D obligations						
1955	2,533	2,151	382	100.0	84.9	15.1
1956	2,988	2,535	453	100.0	84.8	15.2
1957	3,932	3,327	605	100.0	84.6	15.4
1958	4,570	3,801	769	100.0	83.2	16.8
1959	6,694	5,556	1,138	100.0	83.0	17.0
1960	7,552	6,107	1,445	100.0	80.9	19.1
1961	9,059	7,005	2,054	100.0	77.3	22.7
1962	10,290	7,238	3,052	100.0	70.3	29.7
1963	12,495	7,764	4,731	100.0	62.1	37.9
1964	14,225	7,829	6,396	100.0	55.0	45.0
1965	14,614	7,342	7,272	100.0	50.2	49.8
1966	15,320	7,536	7,784	100.0	49.2	50.8
1967	16,529	8,566	7,963	100.0	51.8	48.2
1968	15,921	8,275	7,646	100.0	52.0	48.0
1969	15,641	8,356	7,285	100.0	53.4	46.6
1970	15,339	7,981	7,358	100.0	52.0	48.0
1971	15,543	8,110	7,433	100.0	52.2	47.8
1972	16,496	8,902	7,594	100.0	54.0	46.0
1973	16,800	9,002	7,798	100.0	53.6	46.4
1974	17,410	9,016	8,394	100.0	51.8	48.2
1975	19,039	9,679	9,360	100.0	50.8	49.2
1976	20,780	10,430	10,350	100.0	50.2	49.8
1977	23,450	11,864	11,586	100.0	50.6	49.4
R&D budget authority						
1978	25,976	12,899	13,077	100.0	49.7	50.3
1979	28,208	13,791	14,417	100.0	48.9	51.1
1980	29,739	14,946	14,793	100.0	50.3	49.7
1981	33,735	18,413	15,322	100.0	54.6	45.4
1982	36,115	22,070	14,045	100.0	61.1	38.9
1983	38,768	24,936	13,832	100.0	64.3	35.7
1984	44,214	29,287	14,927	100.0	66.2	33.8
1985	49,887	33,698	16,189	100.0	67.5	32.5
1986	53,249	36,926	16,323	100.0	69.3	30.7
1987	57,069	39,152	17,917	100.0	68.6	31.4
1988	59,106	40,099	19,007	100.0	67.8	32.2
1989	62,115	40,642	21,473	100.0	65.5	34.5
1990	63,781	39,925	23,856	100.0	62.6	37.4
1991	65,898	39,328	26,570	100.0	59.7	40.3
1992	68,398	40,083	28,315	100.0	58.6	41.4
1993	69,884	41,249	28,635	100.0	59.0	41.0
1994	68,331	37,764	30,566	100.0	55.3	44.7
1995	68,791	37,204	31,587	100.0	54.1	45.9
1996	69,049	37,801	31,248	100.0	54.7	45.3
1997	71,653	39,591	32,062	100.0	55.3	44.7
1998	73,569	39,823	33,746	100.0	54.1	45.9
1999	77,637	41,306	36,332	100.0	53.2	46.8
R&D and R&D plant budget authority						
2000	83,581	43,161	40,420	100.0	51.6	48.4
2001	91,505	46,202	45,303	100.0	50.5	49.5
2002	103,057	53,731	49,326	100.0	52.1	47.9

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	Total	National defense	Civilian functions	Total	National defense	Civilian functions
2003	118,065	63,708	54,357	100.0	54.0	46.0
2004	126,270	70,344	55,926	100.0	55.7	44.3
2005	131,259	74,641	56,618	100.0	56.9	43.1
2006	136,019	78,737	57,282	100.0	57.9	42.1
2007	141,890	82,658	59,232	100.0	58.3	41.7
2008	144,391	85,129	59,262	100.0	59.0	41.0
2009 ^a	164,292	85,642	78,650	100.0	52.1	47.9
Non-ARRA	145,553	85,342	60,211	100.0	58.6	41.4
ARRA	18,739	300	18,439	100.0	1.6	98.4
2010	148,962	86,789	62,173	100.0	58.3	41.7
2011	144,379	83,226	61,153	100.0	57.6	42.4
2012	143,737	79,875	63,862	100.0	55.6	44.4
2013	132,477	70,781	61,696	100.0	53.4	46.6
2014	136,159	70,992	65,167	100.0	52.1	47.9
2015	138,544	72,950	65,594	100.0	52.7	47.3
2016	150,393	80,202	70,191	100.0	53.3	46.7
2017 ^b	127,306	57,530	69,776	100.0	45.2	54.8
2018 preliminary ^c	130,541	61,088	69,453	100.0	46.8	53.2
2019 proposed ^d	123,767	66,027	57,740	100.0	53.3	46.7

ARRA = American Recovery and Reinvestment Act of 2009.

^a Total for FY 2009 is the sum of non-ARRA and ARRA funds.^b The application of a new *experimental development* definition is shown starting in FY 2017. The previous years' numbers reflect use of the former Development definition.^c The FY 2018 data are official estimates reflecting continuing resolution funding for FY 2018 and not the enacted omnibus spending bill for that year (Consolidated Appropriations Act, 2018, signed 23 March 2018). Most federal agencies did not prepare R&D estimates for FY 2018 based on the final spending figures in the omnibus.^d Along with the regular budget request, the Administration issued an addendum adding \$75 billion to the total of nondefense spending in FY 2019, distributed among several agencies (but not all for increased R&D spending). The additional sums for R&D are reflected in some of the data above.**Note(s)**

The National defense function includes Department of Defense military activities and Department of Energy atomic energy defense programs; some years also include defense-related R&D in the Department of Homeland Security and the Department of Justice. Civilian functions include all other federally funded R&D activities.

Source(s)

Agencies' submissions to the Office of Management and Budget per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.