

Appendix table 4-34

Federal obligations for R&D and R&D plant, by character of work: FYs 1953–2012

Fiscal year	Total, R&D and R&D plant	R&D				R&D plant
		All R&D	Basic	Applied	Development	
Current \$millions						
1953	2,167	1,920	116	NA	NA	248
1954	1,918	1,762	116	NA	NA	156
1955	2,252	2,045	130	NA	NA	207
1956	3,267	2,988	206	646	2,136	279
1957	4,389	3,932	262	662	3,007	457
1958	4,906	4,570	335	744	3,491	336
1959	7,123	6,694	466	874	5,353	429
1960	8,080	7,552	590	1,282	5,679	528
1961	9,607	9,059	815	1,663	6,581	548
1962	11,069	10,290	986	2,018	7,285	779
1963	13,663	12,495	1,152	2,356	8,987	1,168
1964	15,324	14,225	1,303	2,571	10,351	1,099
1965	15,746	14,614	1,435	2,812	10,367	1,132
1966	16,179	15,320	1,579	3,081	10,660	858
1967	17,149	16,529	1,846	2,786	11,898	620
1968	16,525	15,921	1,841	2,941	11,140	604
1969	16,310	15,641	1,945	2,700	10,996	669
1970	15,863	15,339	1,926	2,975	10,438	524
1971	16,154	15,543	1,980	3,143	10,419	611
1972	17,098	16,496	2,187	3,361	10,948	602
1973	17,574	16,800	2,232	3,349	11,219	774
1974	18,176	17,410	2,388	3,788	11,235	766
1975	19,860	19,039	2,588	4,141	12,309	821
1976	21,616	20,780	2,767	4,852	13,160	837
1977	24,818	23,450	3,259	5,255	14,936	1,367
1978	27,141	25,845	3,699	5,908	16,238	1,296
1979	29,621	28,145	4,193	6,342	17,610	1,475
1980	31,386	29,830	4,674	6,923	18,233	1,556
1981	34,590	33,104	5,041	7,171	20,891	1,486
1982	37,822	36,433	5,482	7,541	23,410	1,390
1983	40,009	38,712	6,260	7,993	24,458	1,297
1984	44,012	42,225	7,067	7,911	27,246	1,787
1985	50,180	48,360	7,819	8,315	32,226	1,821
1986	52,951	51,412	8,153	8,349	34,910	1,539
1987	57,100	55,254	8,942	8,998	37,313	1,846
1988	58,827	56,769	9,474	9,177	38,119	2,057
1989	63,572	61,406	10,602	10,164	40,641	2,165
1990	65,831	63,559	11,286	10,337	41,937	2,272
1991	64,148	61,295	12,171	11,798	37,327	2,853
1992	68,577	65,593	12,490	12,001	41,102	2,985
1993	70,415	67,314	13,399	13,491	40,424	3,101
1994	69,451	67,235	13,523	13,888	39,824	2,215
1995	70,443	68,187	13,877	14,557	39,752	2,256
1996	69,399	67,653	14,464	13,796	39,393	1,746
1997	71,753	69,827	14,942	14,423	40,461	1,927
1998	73,914	72,101	15,613	15,309	41,178	1,813
1999	77,386	75,341	17,444	16,084	41,813	2,046
2000	80,403	75,910	19,570	18,901	37,440	4,493
2001	88,562	84,493	21,958	22,756	39,779	4,070
2002	98,013	93,709	23,668	24,338	45,702	4,305
2003	107,794	103,527	24,751	26,320	52,455	4,267
2004	116,069	112,074	26,121	27,237	58,717	3,994
2005	122,619	118,848	27,140	26,598	65,110	3,771
2006	123,855	121,730	26,585	26,951	68,194	2,125

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Federal obligations for R&D and R&D plant, by character of work: FYs 1953–2012

Fiscal year	Total, R&D and R&D plant	R&D				R&D plant
		All R&D	Basic	Applied	Development	
2007	129,431	127,263	26,866	27,228	73,169	2,168
2008	129,050	127,106	27,154	26,740	73,212	1,944
2009 ^a	144,761	141,093	32,873	30,821	77,398	3,668
2010 ^a	146,968	140,355	31,795	31,933	76,627	6,613
2011 preliminary	136,418	132,141	29,061	29,106	73,974	4,277
2012 preliminary	135,834	130,952	30,665	30,048	70,240	4,882
2005 constant \$millions						
1953	13,363	11,834	715	NA	NA	1,528
1954	11,688	10,736	707	NA	NA	952
1955	13,615	12,362	786	NA	NA	1,253
1956	19,251	17,609	1,217	3,804	12,588	1,642
1957	24,939	22,341	1,491	3,762	17,088	2,598
1958	27,060	25,205	1,845	4,105	19,255	1,855
1959	38,710	36,378	2,533	4,751	29,094	2,332
1960	43,371	40,535	3,169	6,882	30,484	2,836
1961	50,858	47,955	4,312	8,806	34,837	2,903
1962	57,953	53,874	5,164	10,568	38,142	4,079
1963	70,646	64,605	5,955	12,183	46,467	6,041
1964	78,303	72,690	6,658	13,140	52,892	5,613
1965	79,045	73,365	7,206	14,115	52,043	5,681
1966	79,541	75,321	7,764	15,148	52,409	4,220
1967	81,702	78,747	8,794	13,271	56,683	2,954
1968	76,047	73,268	8,470	13,532	51,266	2,779
1969	71,755	68,812	8,556	11,879	48,377	2,943
1970	66,235	64,046	8,041	12,421	43,583	2,190
1971	64,230	61,799	7,873	12,497	41,429	2,430
1972	64,912	62,627	8,303	12,759	41,565	2,286
1973	63,930	61,114	8,119	12,184	40,810	2,817
1974	61,699	59,098	8,105	12,857	38,136	2,601
1975	61,012	58,491	7,952	12,723	37,816	2,521
1976	61,956	59,558	7,932	13,906	37,719	2,398
1977	66,180	62,534	8,690	14,015	39,830	3,646
1978	67,801	64,564	9,240	14,759	40,566	3,237
1979	68,487	65,075	9,694	14,664	40,717	3,411
1980	66,680	63,375	9,930	14,708	38,736	3,305
1981	66,892	64,018	9,749	13,869	40,401	2,873
1982	68,457	65,941	9,921	13,648	42,372	2,515
1983	69,364	67,114	10,853	13,858	42,403	2,249
1984	73,587	70,598	11,816	13,228	45,554	2,988
1985	81,264	78,315	12,662	13,465	52,188	2,949
1986	83,810	81,374	12,905	13,215	55,255	2,436
1987	88,035	85,189	13,787	13,873	57,529	2,846
1988	87,879	84,806	14,152	13,709	56,945	3,073
1989	91,417	88,304	15,246	14,615	58,443	3,113
1990	91,305	88,155	15,653	14,337	58,165	3,151
1991	85,725	81,913	16,265	15,766	49,882	3,812
1992	89,316	85,429	16,267	15,630	53,532	3,887
1993	89,723	85,772	17,073	17,191	51,508	3,951
1994	86,662	83,897	16,875	17,329	49,693	2,764
1995	86,074	83,317	16,956	17,788	48,573	2,757
1996	83,192	81,099	17,339	16,538	47,223	2,093
1997	84,465	82,198	17,589	16,979	47,630	2,268
1998	85,917	83,809	18,148	17,795	47,865	2,108
1999	88,776	86,430	20,011	18,451	47,967	2,347
2000	90,371	85,321	21,996	21,244	42,081	5,050

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Federal obligations for R&D and R&D plant, by character of work: FYs 1953–2012

Fiscal year	Total, R&D and R&D plant	R&D				R&D plant
		All R&D	Basic	Applied	Development	
2001	97,257	92,788	24,114	24,990	43,684	4,469
2002	105,880	101,230	25,568	26,292	49,370	4,650
2003	114,116	109,599	26,203	27,864	55,532	4,517
2004	119,844	115,720	26,970	28,123	60,626	4,124
2005	122,619	118,848	27,140	26,598	65,110	3,771
2006	119,782	117,727	25,710	26,065	65,952	2,055
2007	121,577	119,541	25,236	25,576	68,729	2,037
2008	118,470	116,686	24,928	24,548	67,210	1,785
2009 ^a	131,005	127,686	29,749	27,892	70,044	3,319
2010 ^a	131,786	125,856	28,511	28,634	68,711	5,930
2011 preliminary	119,960	116,198	25,555	25,594	65,049	3,761
2012 preliminary	117,281	113,065	26,476	25,943	60,646	4,215

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

^a Includes obligations from the additional federal R&D funding authorized by the American Recovery and Reinvestment Act of 2009.

NOTES: Beginning in FY 2000, the Department of the Air Force did not report Budget Activity (BA) 6.7 Operational Systems Development data because the agency misunderstood the reporting requirements. During the Volume 57 data collection cycle, the Department of the Air Force edited prior-year data from FYs 2000–07 to include BA 6.7 Operational Systems Development data. These data revisions were derived from FY 2007 distribution percentages that were then applied backward to revise FY 2000–06 data. In FY 2000, the National Aeronautics and Space Administration (NASA) reclassified the Space Station as a physical asset, reclassified Space Station 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, Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope previously reported as R&D plant. In FY 2000, the National Institutes of Health reclassified all its development activities as research.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development (FYs 2010–12).

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