

Table 1. R&D by Agency in FY 2000 Appropriations - FINAL

Table 1. Total R&D by Agency
Congressional Action on R&D in the FY 2000 Budget (FINAL)
(budget authority in millions of dollars)

	FY 1999 Est.	FY 2000 Request	FY 2000 FINAL	Action by Congress			
				Chg. from Amount	Request Percent	Chg. from Amount	FY 1999 Percent
Defense (military)	37,975	35,065	39,109	4,044	11.5%	1,134	3.0%
("S&T" 6.1,6.2,6.3 + Medical)	7,791	7,386	8,652	1,265	17.1%	861	11.0%
(All Other DOD R&D)	30,184	27,679	30,457	2,778	10.0%	274	0.9%
National Aeronautics & Space Admin.	9,715	9,770	9,778	8	0.1%	63	0.6%
Energy	6,974	7,467	7,232	-235	-3.1%	258	3.7%
Health and Human Services	15,750	16,047	18,094	2,047	12.8%	2,344	14.9%
(National Institutes of Health)	14,971	15,289	17,125	1,835	12.0%	2,153	14.4%
National Science Foundation	2,714	2,890	2,854	-36	-1.2%	140	5.2%
Agriculture	1,638	1,850	1,693	-156	-8.5%	56	3.4%
Interior	567	584	562	-22	-3.8%	-5	-0.9%
Transportation	603	836	643	-193	-23.1%	40	6.7%
Environmental Protection Agency	669	645	645	1	0.1%	-23	-3.5%
Commerce	1,075	1,172	1,096	-76	-6.5%	21	2.0%
(NOAA)	600	600	617	17	2.8%	17	2.8%
(NIST)	468	565	473	-92	-16.3%	5	1.0%
Education	224	276	246	-30	-10.7%	22	10.0%
Agency for Int'l Development	143	94	143	49	51.9%	0	-0.1%
Department of Veterans Affairs	674	663	665	2	0.4%	-9	-1.3%
Nuclear Regulatory Commission	49	47	47	0	-0.5%	-2	-4.5%
Smithsonian	138	146	143	-3	-2.2%	5	3.5%
All Other	443	353	395	42	11.9%	-48	-10.8%
Total R&D	79,350	77,904	83,346	5,442	7.0%	3,996	5.0%
Defense R&D	41,208	38,483	42,497	4,014	10.4%	1,288	3.1%
Nondefense R&D	38,142	39,422	40,850	1,428	3.6%	2,708	7.1%
Nondefense R&D minus NIH	23,171	24,133	23,725	-407	-1.7%	555	2.4%
Basic Research	17,276	18,101	19,112	1,011	5.6%	1,836	10.6%
Applied Research	16,640	16,642	17,534	892	5.4%	894	5.4%
Total Research	33,916	34,742	36,646	1,903	5.5%	2,730	8.0%
"21st Century Research Fund"	36,943	38,111	39,854	1,743	4.6%	2,910	7.9%
"FS&T"	48,326	49,404	52,058	2,654	5.4%	3,732	7.7%

AAAS estimates. Includes conduct of R&D and R&D facilities. Includes rescissions and emergency appropriations.

All figures are rounded to the nearest million. Changes calculated from unrounded figures.

FY 2000 FINAL figures are AAAS estimates of R&D funding contained in FY 2000 appropriations bills conference reports. These figures are reduced to reflect a 0.38 percent cut to all discretionary programs.

Nov. 22, 1999 - FINAL

Table 2. Basic and Applied Research in FY 2000 Appropriations - FINAL

**Table 2. Estimated Research by Agency
Congressional Action on R&D in the FY 2000 Budget (FINAL)
(budget authority in millions of dollars)**

	FY 1999 Est.	FY 2000 Request	Action by Congress				
			FY 2000 FINAL	Chg. from Request Amount	Percent	Chg. from FY 1999 Amount	Percent
Basic Research:							
Health and Human Services	8,429	8,590	9,623	1,033	12.0%	1,194	14.2%
<i>National Institutes of Health</i>	8,427	8,588	9,619	1,031	12.0%	1,192	14.1%
National Science Foundation	2,333	2,514	2,473	-40	-1.6%	141	6.0%
Department of Defense	1,108	1,113	1,167	54	4.9%	59	5.4%
Department of Energy	2,225	2,281	2,253	-28	-1.2%	28	1.2%
National Aeronautics & Space Admin.	2,140	2,466	2,526	60	2.5%	386	18.0%
Department of Agriculture	677	776	710	-66	-8.5%	33	4.8%
Department of the Interior	51	53	53	0	0.7%	2	4.3%
Smithsonian	128	136	133	-3	-2.4%	5	3.7%
Environmental Protection Agency	83	79	79	0	0.1%	-4	-4.7%
Department of Commerce	36	38	38	-1	-2.1%	2	4.2%
All Other	65	55	56	1	1.0%	-9	-13.9%
Total Est. Basic Research	17,276	18,101	19,112	1,011	5.6%	1,836	10.6%
RESEARCH (basic and applied):							
Health and Human Services	13,657	13,899	15,664	1,765	12.7%	2,007	14.7%
<i>National Institutes of Health</i>	12,915	13,171	14,750	1,579	12.0%	1,835	14.2%
National Science Foundation	2,513	2,699	2,655	-43	-1.6%	142	5.7%
Department of Defense	4,259	4,072	4,555	483	11.9%	297	7.0%
Department of Energy	4,103	4,379	4,252	-127	-2.9%	149	3.6%
National Aeronautics & Space Admin.	4,468	4,424	4,568	144	3.2%	99	2.2%
Department of Agriculture	1,416	1,643	1,485	-157	-9.6%	69	4.9%
Department of the Interior	536	551	536	-15	-2.8%	0	0.1%
Environmental Protection Agency	470	447	447	1	0.1%	-23	-4.8%
Department of Commerce	846	878	845	-33	-3.8%	-1	-0.2%
NOAA	544	543	558	15	2.8%	14	2.6%
NIST	296	329	281	-48	-14.7%	-15	-5.1%
Department of Transportation	397	576	448	-127	-22.1%	51	12.9%
Department of Veterans Affairs	608	597	599	2	0.4%	-9	-1.4%
Department of Education	157	174	155	-19	-10.7%	-2	-1.0%
All Other	485	403	435	32	7.9%	-50	-10.4%
TOTAL EST. RESEARCH	33,916	34,742	36,646	1,903	5.5%	2,730	8.0%

AAAS estimates of basic and applied research in FY 2000 appropriations bills.

All figures are rounded to the nearest million. Changes calculated from unrounded figures.

FY 2000 FINAL figures are AAAS estimates of R&D funding contained in FY 2000 appropriations bills conference reports. These figures are reduced to reflect a 0.38 percent cut to all discretionary programs.

Nov. 22, 1999 - FINAL

Table 3. Major Functional Categories of R&D in FY 2000 Appropriations - FINAL

**Table 3. Major Functional Categories of R&D
Congressional Action on R&D in the FY 2000 Budget (FINAL)
(budget authority in millions of dollars)**

	FY 1999 Est.	FY 2000 Request	Action by Congress				
			FY 2000 FINAL	Chg. from Request Amount	Chg. from Request Percent	Chg. from FY 1999 Amount	Chg. from FY 1999 Percent
Defense ¹	41,208	38,483	42,497	4,014	10.4%	1,288	3.1%
Nondefense ²	38,142	39,422	40,850	1,428	3.6%	2,708	7.1%
Space	8,518	8,704	8,606	-98	-1.1%	88	1.0%
Health	16,379	16,664	18,689	2,025	12.2%	2,310	14.1%
Energy	1,173	1,353	1,282	-71	-5.2%	109	9.3%
General Science	5,365	5,668	5,498	-170	-3.0%	133	2.5%
Natural Resources & Environment	2,088	2,104	2,070	-34	-1.6%	-18	-0.9%
Agriculture	1,427	1,608	1,479	-128	-8.0%	53	3.7%
Transportation	1,799	1,902	1,815	-87	-4.6%	15	0.8%
Commerce	474	571	479	-92	-16.2%	5	1.0%
International	194	123	172	49	39.7%	-22	-11.4%
All Other	724	725	760	35	4.8%	36	5.0%
Total R&D	79,350	77,904	83,346	5,442	7.0%	3,996	5.0%

AAAS estimates of R&D in FY 2000 appropriations bills. Includes conduct of R&D and R&D facilities.

All figures are rounded to the nearest million. Changes calculated from unrounded figures.

Classifications generally follow the government's budget function categories except health (which here includes health R&D in HHS and VA).

¹ Includes DOD R&D and atomic energy defense R&D in DOE.

² Includes all R&D not in defense (domestic and international discretionary programs).

FY 2000 FINAL figures are AAAS estimates of R&D funding contained in FY 2000 appropriations bills conference reports. These figures are reduced to reflect a 0.38 percent cut to all discretionary programs.

Nov. 22, 1999 - FINAL

Table 4. "21st Century Research Fund" in FY 2000 Appropriations - FINAL

**Table 4. "21st Century Research Fund" by Agency
Congressional Action on R&D in the FY 2000 Budget (FINAL)
(budget authority in millions of dollars)**

	FY 1999 Est.	FY 2000 Request	FY 2000 FINAL	Action by Congress			
				Chg. from Request		Chg. from FY 1999	
				Amount	Percent	Amount	Percent
Health and Human Services	15,612	15,933	17,845	1,913	12.0%	2,233	14.3%
<i>(National Institutes of Health)</i>	<i>15,612</i>	<i>15,933</i>	<i>17,845</i>	<i>1,913</i>	<i>12.0%</i>	<i>2,233</i>	<i>14.3%</i>
National Science Foundation	3,671	3,921	3,897	-24	-0.6%	226	6.2%
Department of Energy	3,560	3,880	3,674	-206	-5.3%	115	3.2%
National Aeronautics & Space Admin.	4,995	4,786	4,911	125	2.6%	-84	-1.7%
Department of Defense	4,259	4,072	4,555	483	11.9%	297	7.0%
<i>(Basic Research)</i>	<i>1,108</i>	<i>1,113</i>	<i>1,167</i>	<i>54</i>	<i>4.9%</i>	<i>59</i>	<i>5.4%</i>
<i>(Applied Research)</i>	<i>3,151</i>	<i>2,959</i>	<i>3,388</i>	<i>429</i>	<i>14.5%</i>	<i>237</i>	<i>7.5%</i>
Agriculture	1,535	1,596	1,582	-14	-0.9%	47	3.1%
Commerce	828	918	831	-87	-9.4%	3	0.4%
Interior	798	838	821	-18	-2.1%	23	2.9%
Environmental Protection Agency	672	751	638	-113	-15.0%	-33	-5.0%
Veterans Affairs	316	316	320	4	1.2%	4	1.2%
Education	210	265	235	-30	-11.5%	25	11.7%
Transportation	489	834	544	-290	-34.8%	55	11.3%
Total "21st Century Fund"	36,943	38,111	39,854	1,743	4.6%	2,910	7.9%

AAAS estimates. Definitions for the 21st Century Research Fund do not correspond to definitions of R&D.

The Fund contains both R&D and non-R&D programs.

FY 2000 FINAL figures are AAAS estimates of R&D funding contained in FY 2000 appropriations bills conference reports. These figures are reduced to reflect a 0.38 percent cut to all discretionary programs.

Nov. 22, 1999 - FINAL

Table 5. Total U.S. R&D, 1997-1999

Table 5. Total U.S. R&D, 1997-1999
(expenditures in millions of dollars)

(calendar years)	1997	1998	1999	% Change
	Actual	Preliminary	Preliminary	1998-99
U.S. R&D by funding source:				
Federal Government	65,016	64,853	65,853	1.5%
Industry	136,394	151,105	169,312	12.0%
Universities and Colleges	4,842	5,366	5,838	8.8%
Nonprofits	3,436	3,686	3,913	6.2%
Nonfederal Government	1,898	1,974	2,085	5.6%
Total U.S. R&D	211,586	226,984	247,000	8.8%
U.S. R&D by performer:				
Federal Government	16,814	17,189	17,362	1.0%
Industry	155,409	168,291	185,892	10.5%
Universities and Colleges	25,136	26,684	28,256	5.9%
FFRDCs *	8,562	8,715	9,171	5.2%
Nonprofits	5,665	6,105	6,319	3.5%
Total U.S. R&D	211,586	226,984	247,000	8.8%
U.S. R&D by character of work:				
Basic Research	35,495	37,695	40,224	6.7%
<i>(from federal sources)</i>	19,328	20,186	21,020	4.1%
<i>(from industry sources)</i>	10,315	11,373	12,689	11.6%
Applied Research	47,453	51,722	56,462	9.2%
Development	128,638	137,566	150,315	9.3%
Total U.S. R&D	211,586	226,984	247,000	8.8%
U.S. GDP** (billions of dollars)	8,111	8,509	8,849	4.0%
U.S. R&D / GDP	2.61%	2.67%	2.79%	

Source: National Science Foundation, *National Patterns of R&D Resources 1999 Data Update*. The complete data are available at <http://www.nsf.gov/sbe/srs/stats.htm>.

* Federally Funded Research and Development Centers.

** Gross Domestic Product.

These data are based on performer surveys of expenditures for calendar years, and thus differ from data presented elsewhere in this report (agency budget authority data by fiscal year). These data also exclude R&D facilities.