

Table II-1. R&D in the FY 2004 Budget by Agency and Character of Work

Table II-1. R&D in the FY 2004 Budget by Agency and Character of Work
(budget authority in millions of dollars)

	FY 2002	FY 2003	FY 2004	Change FY 03-04	
	Actual	Estimate	Budget	Amount	Percent
TOTAL R&D (Conduct of R&D and R&D Facilities)					
Defense (military)	49,877	58,646	62,821	4,175	7.1%
<i>S&T (6.1-6.3 + medical)</i>	10,337	11,232	10,297	-935	-8.3%
<i>All Other DOD R&D</i>	39,539	47,415	52,524	5,109	10.8%
Health and Human Services	24,016	27,550	28,203	653	2.4%
<i>Nat'l Institutes of Health</i>	22,714	26,245	26,946	700	2.7%
NASA	10,224	10,999	11,025	26	0.2%
Energy	8,078	8,205	8,535	330	4.0%
Nat'l Science Foundation	3,525	3,927	4,035	109	2.8%
Agriculture	2,112	2,166	1,943	-223	-10.3%
Commerce	1,227	1,248	1,100	-148	-11.9%
<i>NOAA</i>	677	684	675	-9	-1.4%
<i>NIST</i>	503	527	410	-117	-22.1%
Interior	623	627	633	6	1.0%
Transportation	778	702	693	-9	-1.2%
Environ. Protection Agency	592	643	607	-37	-5.7%
Veterans Affairs	756	800	822	22	2.8%
Education	265	315	275	-40	-12.8%
Homeland Security	266	669	1,001	332	49.6%
Int'l Assistance Programs	279	301	306	5	1.7%
Smithsonian	126	128	127	-1	-0.8%
Tennessee Valley Auth.	26	26	25	-1	-3.8%
Labor	17	10	10	0	0.0%
Nuclear Reg. Comm.	62	59	60	1	1.7%
Corps of Engineers	27	29	27	-2	-7.9%
Housing and Urban Dev.	49	50	51	1	1.8%
Justice	91	108	106	-2	-1.5%
Social Security	37	38	30	-8	-20.5%
Postal Service	43	46	47	1	2.2%
Treasury	3	3	3	0	0.0%
Total R&D	103,100	117,297	122,485	5,189	4.4%
Defense R&D	53,731	62,986	67,515	4,530	7.2%
Nondefense R&D	49,368	54,311	54,970	659	1.2%

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Table II-1 (continued). R&D in the FY 2004 Budget by Agency and Character of Work
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	FY 2002 Actual	FY 2003 Estimate	FY 2004 Budget	Change FY 03-04 Amount Percent	
BASIC RESEARCH					
(Please see Chapter 3 for a discussion of these data)					
Defense (military)	1,334	1,417	1,309	-108	-7.6%
Health and Human Services	12,957	14,092	14,804	712	5.1%
<i>Nat'l Institutes of Health</i>	<i>12,954</i>	<i>14,088</i>	<i>14,801</i>	713	5.1%
NASA	1,912	2,356	2,535	179	7.6%
Energy	2,580	2,561	2,593	32	1.2%
Nat'l Science Foundation	3,076	3,435	3,486	51	1.5%
Agriculture	797	911	819	-92	-10.1%
Commerce	329	325	391	66	20.2%
NOAA	273	265	312	46	17.5%
NIST	53	58	79	21	36.6%
Interior	41	42	38	-4	-10.0%
Transportation	17	17	37	20	119.5%
Environ. Protection Agency	107	116	90	-27	-22.9%
Veterans Affairs	465	513	495	-18	-3.5%
Education	2	1	1	0	-4.2%
Homeland Security	32	47	47	0	0.0%
Int'l Assistance Programs	53	58	58	0	0.3%
Smithsonian	111	115	121	6	5.2%
Labor	2	2	2	0	0.0%
Corps of Engineers	3	3	3	0	-7.9%
Justice	30	37	33	-4	-11.5%
Total BASIC RESEARCH	23,848	26,048	26,861	813	3.1%
Defense	1,404	1,475	1,354	-122	-8.3%
Nondefense	22,444	24,572	25,507	935	3.8%

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Table II-1 (continued). R&D in the FY 2004 Budget by Agency and Character of Work
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	FY 2002 Actual	FY 2003 Estimate	FY 2004 Budget	Change FY 03-04 Amount	Percent
APPLIED RESEARCH					
(Please see Chapter 3 for a discussion of these data)					
Defense (military; incl. Med.)	4,545	4,748	3,736	-1,012	-21.3%
Health and Human Services	10,558	12,248	13,273	1,025	8.4%
<i>Nat'l Institutes of Health</i>	9,345	11,032	12,065	1,033	9.4%
NASA	2,767	3,176	2,947	-229	-7.2%
Energy	2,446	2,594	2,887	293	11.3%
Nat'l Science Foundation	186	213	204	-9	-4.2%
Agriculture	875	887	847	-40	-4.5%
Commerce	668	663	570	-94	-14.1%
NOAA	378	382	338	-44	-11.5%
NIST	279	271	222	-50	-18.3%
Interior	522	524	537	13	2.5%
Transportation	502	415	411	-4	-1.1%
Environ. Protection Agency	383	416	369	-47	-11.3%
Veterans Affairs	268	261	302	41	15.8%
Education	173	224	219	-5	-2.4%
Homeland Security	78	64	126	62	96.9%
Int'l Assistance Programs	226	243	248	5	2.0%
Smithsonian	0	0	0	0	--
Tennessee Valley Auth.	12	12	11	-1	-8.3%
Labor	15	8	8	0	0.0%
Nuclear Reg. Comm.	62	59	60	1	1.7%
Corps of Engineers	14	15	14	-1	-7.9%
Housing and Urban Dev.	49	47	51	4	8.5%
Justice	19	18	17	-1	-6.1%
Social Security	37	38	30	-8	-20.5%
Treasury	3	3	3	0	0.0%
Total APPLIED RESEARCH	24,407	26,878	26,870	-8	0.0%
Defense	6,548	6,866	6,137	-729	-10.6%
Nondefense	17,860	20,012	20,733	721	3.6%

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Table II-1 (continued). R&D in the FY 2004 Budget by Agency and Character of Work
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	FY 2002 Actual	FY 2003 Estimate	FY 2004 Budget	Change FY 03-04 Amount	Percent
Total RESEARCH (basic + applied)					
(Please see Chapter 3 for a discussion of these data)					
Defense (military; incl. Med.)	5,879	6,165	5,045	-1,120	-18.2%
Health and Human Services	23,515	26,340	28,077	1,737	6.6%
<i>Nat'l Institutes of Health</i>	22,299	25,120	26,866	1,746	7.0%
NASA	4,680	5,532	5,482	-50	-0.9%
Energy	5,026	5,155	5,480	325	6.3%
Nat'l Science Foundation	3,261	3,648	3,690	42	1.1%
Agriculture	1,672	1,798	1,666	-132	-7.3%
Commerce	997	989	961	-28	-2.8%
NOAA	651	647	650	2	0.4%
NIST	332	329	301	-28	-8.6%
Interior	563	566	575	9	1.6%
Transportation	519	432	448	16	3.6%
Environ. Protection Agency	489	532	459	-74	-13.8%
Veterans Affairs	733	774	797	23	3.0%
Education	175	225	220	-5	-2.4%
Homeland Security	110	111	173	62	55.9%
Int'l Assistance Programs	279	301	306	5	1.7%
Smithsonian	111	115	121	6	5.2%
Tennessee Valley Auth.	12	12	11	-1	-8.3%
Labor	17	10	10	0	0.0%
Nuclear Reg. Comm.	62	59	60	1	1.7%
Corps of Engineers	17	18	17	-1	-7.9%
Housing and Urban Dev.	49	47	51	4	8.5%
Justice	49	55	50	-5	-9.7%
Social Security	37	38	30	-8	-20.5%
Treasury	3	3	3	0	0.0%
Total RESEARCH	48,255	52,925	53,731	806	1.5%
Defense	7,952	8,341	7,491	-851	-10.2%
Nondefense	40,304	44,584	46,240	1,656	3.7%

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Table II-1 (continued). R&D in the FY 2004 Budget by Agency and Character of Work
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	FY 2002 Actual	FY 2003 Estimate	FY 2004 Budget	Change FY 03-04 Amount Percent	
DEVELOPMENT					
Defense (military)	43,779	52,366	57,627	5,261	10.0%
<i>S&T (6.3 Development)</i>	4,430	5,067	5,253	186	3.7%
<i>All Other DOD Develop.</i>	39,349	47,299	52,374	5,075	10.7%
Health and Human Services	63	32	31	-1	-1.8%
<i>Nat'l Institutes of Health</i>	0	0	0	0	--
NASA	2,588	2,759	3,061	301	10.9%
Energy	1,981	2,035	2,079	45	2.2%
Nat'l Science Foundation	0	0	0	0	--
Agriculture	132	143	137	-6	-4.2%
Commerce	148	151	46	-105	-69.5%
<i>NOAA</i>	26	37	25	-12	-31.9%
<i>NIST</i>	90	90	17	-73	-81.1%
Interior	60	61	59	-3	-4.4%
Transportation	244	250	226	-24	-9.7%
Environ. Protection Agency	102	111	148	37	33.2%
Veterans Affairs	23	26	25	-1	-4.6%
Education	90	90	55	-35	-38.7%
Homeland Security	93	452	663	211	46.7%
Tennessee Valley Auth.	14	14	14	0	0.0%
Labor	0	0	0	0	--
Corps of Engineers	10	11	10	-1	-7.9%
Justice	42	52	56	4	7.3%
Postal Service	43	46	47	1	2.2%
Total Development	<u>49,412</u>	<u>58,599</u>	64,284	5,684	9.7%
Defense	45,065	54,024	59,344	5,321	9.8%
Nondefense	4,347	4,576	4,939	363	7.9%

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Table II-1 (continued). R&D in the FY 2004 Budget by Agency and Character of Work
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	FY 2002 Actual	FY 2003 Estimate	FY 2004 Budget	Change FY 03-04 Amount	Percent
Total CONDUCT OF R&D (basic + applied research, development)					
Defense (military)	49,658	58,531	62,672	4,141	7.1%
<i>S&T (6.1-6.3 + medical)</i>	10,337	11,232	10,297	-935	-8.3%
<i>All Other DOD Conduct</i>	39,320	47,300	52,375	5,075	10.7%
Health and Human Services	23,578	26,372	28,108	1,737	6.6%
<i>Nat'l Institutes of Health</i>	22,299	25,120	26,866	1,746	7.0%
NASA	7,267	8,291	8,543	251	3.0%
Energy	7,007	7,190	7,559	370	5.1%
Nat'l Science Foundation	3,261	3,648	3,690	42	1.1%
Agriculture	1,804	1,941	1,803	-138	-7.1%
Commerce	1,145	1,139	1,006	-133	-11.7%
<i>NOAA</i>	677	684	675	-9	-1.4%
<i>NIST</i>	422	419	318	-101	-24.1%
Interior	623	627	633	6	1.0%
Transportation	763	683	674	-9	-1.3%
Environ. Protection Agency	592	643	607	-37	-5.7%
Veterans Affairs	756	800	822	22	2.8%
Education	265	315	275	-40	-12.8%
Homeland Security	203	563	836	273	48.5%
Int'l Assistance Programs	279	301	306	5	1.7%
Smithsonian	111	115	121	6	5.2%
Tennessee Valley Auth.	26	26	25	-1	-3.8%
Labor	17	10	10	0	0.0%
Nuclear Reg. Comm.	62	59	60	1	1.7%
Corps of Engineers	27	29	27	-2	-7.9%
Housing and Urban Dev.	49	47	51	4	8.5%
Justice	91	108	106	-2	-1.5%
Social Security	37	38	30	-8	-20.5%
Postal Service	43	46	47	1	2.2%
Treasury	3	3	3	0	0.0%
Total Conduct of R&D	97,667	111,524	118,014	6,490	5.8%
Defense	53,016	62,365	66,835	4,470	7.2%
Nondefense	44,651	49,159	51,179	2,020	4.1%

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Table II-1 (continued). R&D in the FY 2004 Budget by Agency and Character of Work
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	FY 2002 Actual	FY 2003 Estimate	FY 2004 Budget	Change FY 03-04	
				Amount	Percent
R&D Facilities and Capital Equipment					
Defense (military)	219	115	149	34	29.6%
Health and Human Services	438	1,179	95	-1,084	-91.9%
<i>Nat'l Institutes of Health</i>	414	1,125	80	-1,045	-92.9%
NASA	2,957	2,708	2,482	-226	-8.3%
Energy	1,071	1,015	975	-40	-3.9%
Nat'l Science Foundation	264	279	345	67	23.9%
Agriculture	308	225	140	-85	-37.9%
Commerce	82	109	94	-16	-14.2%
<i>NOAA</i>	0	0	0	0	<i>#DIV/0!</i>
<i>NIST</i>	81	108	93	-16	-14.3%
Transportation	15	19	19	0	0.0%
Homeland Security	63	106	165	59	55.4%
Smithsonian	15	13	6	-7	-53.8%
Total R&D Facils.	<u>5,432</u>	<u>5,772</u>	<u>4,471</u>	-1,301	-22.5%
Defense	715	621	680	60	9.6%
Nondefense	4,717	5,152	3,791	-1,361	-26.4%

Source: AAAS, based on OMB data for R&D for FY 2004, agency budget justifications, and information from agency budget offices.

Note: The projected inflation rate between FY 2003 and FY 2004 is 1.9 percent.

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

FY 2003 figures revised with AAAS estimates of final FY 2003 appropriations.