

AAAS Preliminary Analysis of R&D in the FY 2003 Budget

Table 1. R&D in the FY 2003 Budget by Agency
(budget authority in millions of dollars)

	FY 2001 Actual	FY 2002 Estimate	FY 2003 Budget	Change FY 02-03	
				Amount	Percent
Total R&D (Conduct and Facilities)					
Defense (military)	42,235	49,171	54,544	5,373	10.9%
<i>S&T (6.1-6.3 + medical)</i>	8,933	9,877	9,677	-200	-2.0%
<i>All Other DOD R&D</i>	33,302	39,294	44,867	5,573	14.2%
Health and Human Services	21,037	23,938	27,683	3,745	15.6%
<i>Nat'l Institutes of Health</i>	19,737	22,539	26,472	3,933	17.4%
NASA	9,675	9,560	10,069	509	5.3%
Energy	7,772	9,253	8,510	-743	-8.0%
<i>NNSA and other defense</i>	3,414	4,638	4,010	-628	-13.5%
<i>Energy and Science programs</i>	4,358	4,615	4,500	-115	-2.5%
Nat'l Science Foundation	3,363	3,571	3,700	129	3.6%
Agriculture	2,182	2,336	2,118	-218	-9.3%
Commerce	1,054	1,129	1,114	-15	-1.3%
<i>NOAA</i>	586	644	630	-14	-2.2%
<i>NIST</i>	412	460	472	12	2.6%
Interior	622	660	628	-32	-4.8%
Transportation	792	867	725	-142	-16.4%
Environ. Protection Agency	598	612	650	38	6.2%
Veterans Affairs	748	796	846	50	6.3%
Education	264	268	311	43	16.0%
All Other	922	1,021	858	-163	-16.0%
Total R&D	91,264	103,182	111,756	8,574	8.3%
Defense R&D	45,649	53,809	58,554	4,745	8.8%
Nondefense R&D	45,615	49,373	53,202	3,829	7.8%
<i>Nondefense R&D excluding NIH</i>	25,878	26,834	26,730	-104	-0.4%
Basic Research	21,330	23,542	25,545	2,003	8.5%
Applied Research	21,960	24,082	26,290	2,208	9.2%
Development	43,230	50,960	55,520	4,560	8.9%
R&D Facilities and Equipment	4,744	4,598	4,401	-197	-4.3%

Source: AAAS, based on OMB data for R&D for FY 2003, agency budget justifications, and information from agency budget offices.

February 7, 2002 - PRELIMINARY - will be revised

AAAS Preliminary Analysis of R&D in the FY 2003 Budget

Table 2. Research in the FY 2003 Budget
(budget authority in millions of dollars)

	FY 2001	FY 2002	FY 2003	Change FY 02-03	
	Actual	Estimate	Budget	Amount	Percent
BASIC RESEARCH					
Defense (military)	1,271	1,305	1,336	31	2.4%
Health and Human Services	11,601	13,183	14,467	1,284	9.7%
<i>Nat'l Institutes of Health</i>	11,598	13,180	14,464	1,284	9.7%
NASA	1,652	1,909	2,298	389	20.4%
Energy	2,390	2,420	2,517	97	4.0%
Nat'l Science Foundation	2,894	3,093	3,242	149	4.8%
Agriculture	801	860	880	20	2.3%
Commerce (NIST)	50	52	73	21	40.4%
Interior	56	58	55	-3	-5.2%
Transportation	17	13	25	12	92.3%
Environ. Protection Agency	105	107	101	-6	-5.6%
Smithsonian	108	111	114	3	2.7%
Veterans Affairs	301	344	367	23	6.7%
All Other	84	87	70	-17	-19.5%
Total Basic Research	21,330	23,542	25,545	2,003	8.5%
<i>Basic research excluding NIH</i>	9,732	10,362	11,081	719	6.9%
RESEARCH (basic + applied)					
Defense (military; incl. medical)	4,944	4,961	4,952	-9	-0.2%
Health and Human Services	20,665	23,432	26,846	3,414	14.6%
<i>Nat'l Institutes of Health</i>	19,491	22,182	25,748	3,566	16.1%
NASA	4,185	4,675	5,397	722	15.4%
Energy	4,720	5,294	5,383	89	1.7%
Nat'l Science Foundation	3,075	3,285	3,441	156	4.7%
Agriculture	1,846	1,848	1,826	-22	-1.2%
Commerce	818	890	868	-22	-2.5%
NOAA	505	549	542	-7	-1.3%
NIST	305	334	317	-17	-5.1%
Interior	590	628	596	-32	-5.1%
Transportation	462	535	421	-114	-21.3%
Environ. Protection Agency	475	488	532	44	9.0%
Veterans Affairs	733	780	829	49	6.3%
Education	174	180	213	33	18.3%
Agency for Int'l Develop.	249	268	182	-86	-32.1%
Smithsonian	108	111	114	3	2.7%
All Other	246	249	235	-14	-5.6%
Total Research	43,290	47,624	51,835	4,211	8.8%
<i>Total research excluding NIH</i>	23,799	25,442	26,087	645	2.5%

Source: AAAS, based on OMB data for R&D for FY 2003, agency budget justifications, and information from agency budget offices.

February 7, 2002 - PRELIMINARY - will be revised

AAAS Preliminary Analysis of R&D in the FY 2003 Budget

Table 3. "Federal Science and Technology Budget" by Agency

(budget authority in millions of dollars)

	FY 2001	FY 2002	FY 2003	Change FY 02-03	
	Actual	Estimate	Budget	Amount	Percent
Health and Human Services	20,438	23,433	27,335	3,902	16.7%
<i>(National Institutes of Health)</i>	20,438	23,433	27,335	3,902	16.7%
National Science Foundation	4,437	4,795	5,036	241	5.0%
Department of Energy	4,911	5,099	5,027	-72	-1.4%
<i>(Science programs)</i>	3,218	3,240	3,285	45	1.4%
<i>(Energy supply)</i>	631	630	659	29	4.6%
<i>(Energy conservation)</i>	619	641	589	-52	-8.1%
<i>(Fossil energy)</i>	443	588	494	-94	-16.0%
National Aeronautics & Space Admin.	7,789	8,113	8,774	661	8.1%
<i>(Space Science)</i>	2,760	3,034	3,428	394	13.0%
<i>(Earth Science)</i>	1,825	1,695	1,639	-56	-3.3%
<i>(Aero-Space Technology)</i>	2,260	2,556	2,856	300	11.7%
<i>(Biological and Physical Res.)</i>	944	828	851	23	2.8%
Department of Defense	4,944	4,961	4,952	-9	-0.2%
<i>(Basic Research)</i>	1,271	1,305	1,336	31	2.4%
<i>(Applied Research)</i>	3,673	3,656	3,616	-40	-1.1%
Agriculture	1,885	1,890	1,913	23	1.2%
<i>(CSREES Res. And Edu.)</i>	514	552	563	11	2.0%
<i>(Economic Research Service)</i>	69	70	82	12	17.1%
<i>(Agricultural Research Service)</i>	936	1,017	1,014	-3	-0.3%
<i>(Mandatory research grants (net))</i>	120	0	0	0	--
<i>(Forest Service Research)</i>	246	251	254	3	1.2%
Commerce	828	948	861	-87	-9.2%
<i>(Oceanic and Atmos. Res. NOAA)</i>	325	362	297	-65	-18.0%
<i>(NIST minus MEP)</i>	503	586	564	-22	-3.8%
Interior (USGS)	918	950	904	-46	-4.8%
Environ. Protection Agency (S&T)	746	750	797	47	6.3%
Veterans Affairs (Med. & Prosthetic)	363	373	409	36	9.7%
Education	363	377	431	54	14.3%
<i>(Spec. Edu. Res. And Innov.)</i>	77	78	78	0	0.0%
<i>(Disability and Rehab. Research)</i>	100	110	110	0	0.0%
<i>(Res., Dev., and Dissemination)</i>	186	189	243	54	28.6%
Transportation	521	651	548	-103	-15.8%
<i>(Highway Research)</i>	387	448	421	-27	-6.0%
<i>(FAA Res., Eng. And Develop.)</i>	134	203	127	-76	-37.4%
Total "FS&T"	48,143	52,340	56,987	4,647	8.9%
<i>FS&T excluding NIH</i>	<i>27,705</i>	<i>28,907</i>	29,652	745	2.6%

OMB data from the *Budget of the U.S. Government FY 2003: Analytical Perspectives* Chapter 8.

The programs in the Federal Science and Technology Budget do not correspond to definitions of R&D.

The FS&T Budget contains selected R&D and non-R&D programs with an emphasis on basic and applied research and the creation of new knowledge or technologies. The programs in this table were selected by OMB, and differ from the original definitions of FS&T proposed by the National Academy of Sciences.

February 7, 2002 - PRELIMINARY - will be revised

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Table 4. Major Functional Categories of R&D
(budget authority in millions of dollars)

	FY 2001	FY 2002	FY 2003	Change FY 02-03		% Share of Total ('03)
	Actual	Estimate	Budget	Amount	Percent	
Defense ¹	45,649	53,809	58,554	4,745	8.8%	52.4%
Nondefense ²	45,615	49,373	53,202	3,829	7.8%	47.6%
Space	8,739	8,625	9,232	607	7.0%	8.3%
Health	21,757	24,710	28,475	3,765	15.2%	25.5%
Energy	1,431	1,677	1,527	-150	-9.0%	1.4%
General Science	6,372	6,600	6,771	171	2.6%	6.1%
Environment ³	2,188	2,264	2,229	-35	-1.5%	2.0%
Agriculture	1,827	2,015	1,824	-191	-9.5%	1.6%
Transportation	1,728	1,802	1,562	-240	-13.3%	1.4%
Commerce	467	484	483	-1	-0.2%	0.4%
International	252	268	182	-86	-32.1%	0.2%
All Other	854	928	917	-11	-1.2%	0.8%
Total R&D	91,264	103,182	111,756	8,574	8.3%	100.0%

Source: Authors' estimates based on data from OMB and agency budget justifications.

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

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

¹ Includes DOD and defense R&D in DOE.

² Includes all R&D not in defense.

³ Includes natural resources R&D.

February 7, 2002 - PRELIMINARY - will be revised