

Table II-1. R&amp;D in the FY 2002 Budget by Agency and Character of Work

**Table II-1.** R&D in the FY 2002 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
<b>TOTAL R&amp;D (Conduct of R&amp;D and R&amp;D Facilities)</b>					
Defense (military) <sup>1</sup>	39,959	42,258	<b>45,855</b>	3,597	8.5%
<i>S&amp;T (6.1-6.3 + medical)</i>	8,603	9,392	<b>9,589</b>	197	2.1%
<i>All Other DOD R&amp;D</i>	31,356	32,866	<b>36,266</b>	3,400	10.3%
Health and Human Services	18,182	20,859	<b>23,496</b>	2,637	12.6%
<i>Nat'l Institutes of Health</i>	17,234	19,710	<b>22,395</b>	2,685	13.6%
NASA	9,494	9,925	<b>9,967</b>	41	0.4%
Energy	6,956	7,744	<b>7,399</b>	-346	-4.5%
Nat'l Science Foundation	2,931	3,279	<b>3,226</b>	-52	-1.6%
Agriculture	1,776	1,961	<b>1,803</b>	-158	-8.1%
Commerce	1,174	1,201	<b>1,110</b>	-91	-7.6%
<i>NOAA</i>	643	726	<b>772</b>	47	6.4%
<i>NIST</i>	471	421	<b>313</b>	-108	-25.7%
Interior	618	631	<b>593</b>	-39	-6.1%
Transportation	607	747	<b>798</b>	51	6.8%
Environ. Protection Agency	558	609	<b>569</b>	-40	-6.5%
Veterans Affairs	645	703	<b>722</b>	19	2.7%
Education	238	265	<b>259</b>	-6	-2.3%
Int'l Assistance Programs	200	216	<b>206</b>	-10	-4.6%
Smithsonian	114	118	<b>118</b>	0	0.0%
Labor	16	22	<b>13</b>	-9	-40.9%
Nuclear Reg. Comm.	53	50	<b>67</b>	17	34.0%
Corps of Engineers	48	60	<b>46</b>	-14	-23.3%
Housing and Urban Dev.	45	54	<b>43</b>	-11	-20.4%
Justice	73	90	<b>74</b>	-16	-17.8%
Social Security	25	42	<b>42</b>	0	0.0%
Postal Service	42	45	<b>46</b>	1	2.2%
Treasury	14	7	<b>8</b>	1	14.3%
<b>Total R&amp;D</b>	<b>83,769</b>	<b>90,887</b>	<b>96,459</b>	<b>5,572</b>	<b>6.1%</b>
Defense R&D	43,160	45,757	<b>49,397</b>	3,639	8.0%
Nondefense R&D	40,609	45,130	<b>47,062</b>	1,933	4.3%

(continued)

Table II-1. R&amp;D in the FY 2002 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2002 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02	
				Amount	Percent
<b>BASIC RESEARCH</b>					
<b>(Please see Chapter 3 for a discussion of these data)</b>					
Defense (military) <sup>1</sup>	1,136	1,317	<b>1,345</b>	28	2.1%
Health and Human Services	10,099	11,537	<b>12,973</b>	1,436	12.4%
<i>Nat'l Institutes of Health</i>	<i>10,097</i>	<i>11,535</i>	<i><b>12,971</b></i>	<i>1,436</i>	<i>12.4%</i>
NASA	2,148	2,556	<b>2,466</b>	-90	-3.5%
Energy	2,263	2,372	<b>2,347</b>	-25	-1.1%
Nat'l Science Foundation	2,540	2,796	<b>2,799</b>	3	0.1%
Agriculture	684	742	<b>717</b>	-25	-3.4%
Commerce	39	42	<b>40</b>	-2	-4.3%
NOAA	0	0	<b>0</b>	0	- -
NIST	39	42	<b>40</b>	-2	-4.3%
Interior	52	57	<b>54</b>	-3	-5.1%
Transportation	10	17	<b>21</b>	4	23.4%
Environ. Protection Agency	58	105	<b>98</b>	-7	-6.7%
Veterans Affairs	266	290	<b>304</b>	14	4.8%
Education	2	2	<b>2</b>	0	0.0%
Int'l Assistance Programs	42	51	<b>49</b>	-2	-3.9%
Smithsonian	103	105	<b>102</b>	-3	-2.9%
Labor	2	2	<b>2</b>	0	0.0%
Corps of Engineers	3	3	<b>3</b>	0	0.0%
Justice	20	20	<b>21</b>	1	5.0%
<b>Total BASIC RESEARCH</b>	<b>19,468</b>	<b>22,014</b>	<b>23,343</b>	<b>1,329</b>	<b>6.0%</b>
Defense	1,181	1,369	<b>1,397</b>	27	2.0%
Nondefense	18,287	20,644	<b>21,946</b>	1,302	6.3%

(continued)

Table II-1. R&D in the FY 2002 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2002 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
<b>APPLIED RESEARCH</b>					
<b>(Please see Chapter 3 for a discussion of these data)</b>					
Defense (military; incl. Med.) <sup>1</sup>	3,704	4,076	<b>4,169</b>	93	2.3%
Health and Human Services	7,787	9,038	<b>10,073</b>	1,035	11.5%
<i>Nat'l Institutes of Health</i>	6,896	7,943	<b>9,017</b>	1,074	13.5%
NASA	1,542	1,688	<b>1,811</b>	124	7.3%
Energy	1,886	2,224	<b>2,127</b>	-98	-4.4%
Nat'l Science Foundation	184	220	<b>218</b>	-2	-0.9%
Agriculture	834	922	<b>829</b>	-93	-10.1%
Commerce	857	953	<b>947</b>	-6	-0.6%
NOAA	601	692	<b>741</b>	49	7.1%
NIST	239	254	<b>199</b>	-55	-21.6%
Interior	520	537	<b>503</b>	-34	-6.3%
Transportation	397	460	<b>509</b>	49	10.5%
Environ. Protection Agency	387	370	<b>345</b>	-26	-6.9%
Veterans Affairs	367	399	<b>403</b>	4	1.0%
Education	151	165	<b>167</b>	2	1.2%
Int'l Assistance Programs	152	162	<b>154</b>	-8	-4.9%
Smithsonian	0	0	<b>0</b>	0	- -
Labor	14	20	<b>11</b>	-9	-45.0%
Nuclear Reg. Comm.	53	50	<b>67</b>	17	34.0%
Corps of Engineers	20	14	<b>14</b>	0	0.0%
Housing and Urban Dev.	45	54	<b>43</b>	-11	-20.4%
Justice	26	38	<b>20</b>	-18	-47.4%
Social Security	25	42	<b>42</b>	0	0.0%
Treasury	6	7	<b>7</b>	0	0.0%
<b>Total APPLIED RESEARCH</b>	<b>18,957</b>	<b>21,439</b>	<b>22,458</b>	<b>1,019</b>	<b>4.8%</b>
Defense	5,104	5,725	<b>5,905</b>	180	3.1%
Nondefense	13,852	15,714	<b>16,553</b>	839	5.3%

(continued)

Table II-1. R&amp;D in the FY 2002 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2002 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
<b>Total RESEARCH (basic + applied)</b>					
<b>(Please see Chapter 3 for a discussion of these data)</b>					
Defense (military; incl. Med.) <sup>1</sup>	4,840	5,393	<b>5,514</b>	121	2.2%
Health and Human Services	17,886	20,575	<b>23,046</b>	2,471	12.0%
<i>Nat'l Institutes of Health</i>	16,993	19,478	<b>21,988</b>	2,510	12.9%
NASA	3,690	4,243	<b>4,277</b>	34	0.8%
Energy	4,149	4,597	<b>4,474</b>	-123	-2.7%
Nat'l Science Foundation	2,724	3,016	<b>3,017</b>	1	0.0%
Agriculture	1,518	1,664	<b>1,546</b>	-118	-7.1%
Commerce	896	995	<b>987</b>	-8	-0.8%
NOAA	601	692	<b>741</b>	49	7.1%
NIST	278	296	<b>239</b>	-57	-19.2%
Interior	572	594	<b>557</b>	-37	-6.2%
Transportation	407	477	<b>530</b>	53	11.0%
Environ. Protection Agency	445	475	<b>442</b>	-33	-6.9%
Veterans Affairs	633	689	<b>707</b>	18	2.6%
Education	153	167	<b>169</b>	2	1.2%
Int'l Assistance Programs	194	213	<b>203</b>	-10	-4.7%
Smithsonian	103	105	<b>102</b>	-3	-2.9%
Labor	16	22	<b>13</b>	-9	-40.9%
Nuclear Reg. Comm.	53	50	<b>67</b>	17	34.0%
Corps of Engineers	23	17	<b>17</b>	0	0.0%
Housing and Urban Dev.	45	54	<b>43</b>	-11	-20.4%
Justice	46	58	<b>41</b>	-17	-29.3%
Social Security	25	42	<b>42</b>	0	0.0%
Treasury	6	7	<b>7</b>	0	0.0%
<b>Total RESEARCH</b>	<b>38,425</b>	<b>43,453</b>	<b>45,801</b>	<b>2,349</b>	<b>5.4%</b>
Defense	6,286	7,094	<b>7,302</b>	208	2.9%
Nondefense	32,139	36,358	<b>38,499</b>	2,141	5.9%

(continued)

Table II-1. R&D in the FY 2002 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2002 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02	
				Amount	Percent
<b>DEVELOPMENT</b>					
Defense (military) <sup>1</sup>	35,022	36,685	<b>40,157</b>	3,472	9.5%
<i>S&amp;T (6.3 Development)</i>	3,767	3,999	<b>4,082</b>	83	2.1%
<i>All Other DOD Develop.</i>	31,255	32,686	<b>36,075</b>	3,389	10.4%
Health and Human Services	44	39	<b>28</b>	-11	-28.2%
<i>Nat'l Institutes of Health</i>	0	0	<b>0</b>	0	--
NASA	2,716	2,696	<b>2,755</b>	60	2.2%
Energy	1,907	2,094	<b>1,855</b>	-239	-11.4%
Nat'l Science Foundation	0	0	<b>0</b>	0	--
Agriculture	111	120	<b>124</b>	4	3.3%
Commerce	131	145	<b>72</b>	-73	-50.3%
<i>NOAA</i>	19	24	<b>19</b>	-5	-22.0%
<i>NIST</i>	70	74	<b>36</b>	-38	-50.8%
Interior	29	32	<b>30</b>	-2	-6.2%
Transportation	186	255	<b>250</b>	-5	-1.9%
Environ. Protection Agency	92	100	<b>93</b>	-7	-7.2%
Veterans Affairs	12	14	<b>15</b>	1	7.1%
Education	85	98	<b>90</b>	-8	-8.2%
Int'l Assistance Programs	6	3	<b>3</b>	0	0.0%
Corps of Engineers	15	10	<b>10</b>	0	0.0%
Justice	27	32	<b>33</b>	1	3.1%
Postal Service	42	45	<b>46</b>	1	2.2%
<b>Total Development</b>	40,425	42,367	<b>45,561</b>	3,195	7.5%
Defense	36,292	38,014	<b>41,457</b>	3,443	9.1%
Nondefense	4,133	4,353	<b>4,104</b>	-249	-5.7%

(continued)

Table II-1. R&amp;D in the FY 2002 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2002 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02 Amount Percent	
<b>Total CONDUCT OF R&amp;D (basic + applied research, development)</b>					
Defense (military) <sup>1</sup>	39,862	42,078	<b>45,671</b>	3,593	8.5%
<i>S&amp;T (6.1-6.3 + medical)</i>	8,603	9,392	<b>9,589</b>	197	2.1%
<i>All Other DOD Conduct</i>	31,259	32,686	<b>36,082</b>	3,396	10.4%
Health and Human Services	17,930	20,614	<b>23,074</b>	2,460	11.9%
<i>Nat'l Institutes of Health</i>	16,993	19,478	<b>21,988</b>	2,510	12.9%
NASA	6,405	6,939	<b>7,033</b>	94	1.4%
Energy	6,057	6,690	<b>6,329</b>	-362	-5.4%
Nat'l Science Foundation	2,724	3,016	<b>3,017</b>	1	0.0%
Agriculture	1,629	1,784	<b>1,670</b>	-114	-6.4%
Commerce	1,027	1,140	<b>1,059</b>	-81	-7.1%
<i>NOAA</i>	620	716	<b>759</b>	44	6.1%
<i>NIST</i>	348	370	<b>276</b>	-94	-25.5%
Interior	601	625	<b>587</b>	-39	-6.2%
Transportation	594	732	<b>780</b>	48	6.5%
Environ. Protection Agency	537	575	<b>535</b>	-40	-6.9%
Veterans Affairs	645	703	<b>722</b>	19	2.7%
Education	238	265	<b>259</b>	-6	-2.3%
Int'l Assistance Programs	200	216	<b>206</b>	-10	-4.6%
Smithsonian	103	105	<b>102</b>	-3	-2.9%
Labor	16	22	<b>13</b>	-9	-40.9%
Nuclear Reg. Comm.	53	50	<b>67</b>	17	34.0%
Corps of Engineers	38	27	<b>27</b>	0	0.0%
Housing and Urban Dev.	45	54	<b>43</b>	-11	-20.4%
Justice	73	90	<b>74</b>	-16	-17.8%
Social Security	25	42	<b>42</b>	0	0.0%
Postal Service	42	45	<b>46</b>	1	2.2%
Treasury	6	7	<b>7</b>	0	0.0%
<b>Total Conduct of R&amp;D</b>	<b>78,850</b>	<b>85,819</b>	<b>91,362</b>	<b>5,543</b>	<b>6.5%</b>
Defense	42,578	45,108	<b>48,758</b>	3,651	8.1%
Nondefense	36,272	40,711	<b>42,604</b>	1,892	4.6%

(continued)

Table II-1. R&D in the FY 2002 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2002 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02 Amount Percent	
<b>R&amp;D Facilities and Capital Equipment</b>					
Defense (military) <sup>1</sup>	97	180	<b>184</b>	4	2.2%
Health and Human Services	253	245	<b>422</b>	177	72.4%
<i>Nat'l Institutes of Health</i>	242	232	<b>407</b>	175	75.5%
NASA	3,089	2,987	<b>2,934</b>	-53	-1.8%
Energy	899	1,054	<b>1,070</b>	16	1.5%
Nat'l Science Foundation	207	263	<b>209</b>	-53	-20.2%
Agriculture	147	177	<b>133</b>	-44	-24.9%
Commerce	147	62	<b>51</b>	-11	-17.7%
NOAA	23	10	<b>13</b>	3	30.0%
NIST	123	51	<b>37</b>	-14	-27.4%
Interior	17	6	<b>6</b>	0	0.0%
Transportation	14	15	<b>18</b>	3	19.9%
Environ. Protection Agency	21	34	<b>34</b>	0	0.0%
Veterans Affairs	0	0	<b>0</b>	0	--
Housing and Urban Dev.	0	0	<b>0</b>	0	--
Corps of Engineers	10	33	<b>19</b>	-14	-42.4%
Treasury	8	0	<b>1</b>	1	--
Smithsonian	11	13	<b>16</b>	3	23.1%
<b>Total R&amp;D Facils.</b>	4,919	5,068	<b>5,097</b>	29	0.6%
Defense	582	650	<b>638</b>	-11	-1.8%
Nondefense	4,337	4,418	<b>4,459</b>	40	0.9%

Source: AAAS, based on OMB data for R&D for FY 2002, agency budget justifications, and information from agency budget offices.

Note: The projected inflation rate between FY 2001 and FY 2002 is 2.1 percent.

See individual agency tables for more information.

<sup>1</sup> FY 2002 DOD figures represent a projection from FY 2001 funding levels plus inflation, plus an additional \$2.6 billion (in development) for unspecified projects. The revised FY 2002 request will be released in June upon completion of the Defense Strategy Review.

Table II-2. R&D in the Department of Defense

**Table II-2.** R&D in the Department of Defense  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02 Amount Percent	
<b>Research, Development, Test, and Evaluation (RDT&amp;E)</b>					
Basic Research ("6.1")	1,136	1,317	<b>1,345</b>	28	2.1%
Applied Research ("6.2")	3,405	3,664	<b>3,741</b>	77	2.1%
Total Research	4,541	4,981	<b>5,086</b>	105	2.1%
Adv. Tech. Development ("6.3")	3,767	3,999	<b>4,082</b>	83	2.1%
Total Science & Technology	8,308	8,980	<b>9,168</b>	188	2.1%
Demons. and Valid. ("6.4")	6,540	7,831	<b>7,990</b>	159	2.0%
Eng. & Manufacturing Dev. ("6.5")	8,891	8,737	<b>8,901</b>	164	1.9%
Management Support ("6.6")	3,127	2,639	<b>2,685</b>	46	1.7%
Operational Sys. Dev. ("6.7")	11,888	12,822	<b>13,052</b>	230	1.8%
Transfer Account (unallocated)	0	0	<b>2,600</b>	--	--
BA Adjustment	-48	-180	<b>0</b>	180	-100.0%
Total RDT&E	38,706	40,829	<b>44,396</b>	3,567	8.7%
Medical Research <sup>1</sup>	295	412	<b>421</b>	9	2.2%
Other Appropriations <sup>2</sup>	958	1,017	<b>1,038</b>	21	2.1%
<b>Total DOD R&amp;D</b>	<b>39,959</b>	<b>42,258</b>	<b>45,855</b>	<b>3,597</b>	<b>8.5%</b>
Total Conduct of R&D	39,862	42,078	<b>45,671</b>	3,593	8.5%
Total R&D Facilities & Equip.	97	180	<b>184</b>	4	2.2%

Source: OMB data for R&D for FY 2002, additional data from *Budget of the United States Government FY 2002*.

Note: FY 2002 DOD figures represent a projection from FY 2001 funding levels plus inflation, plus an additional \$2.6 billion (development) for unspecified projects. The revised FY 2002 request will be released in June upon completion of the Defense Strategy Review.

<sup>1</sup> Medical research appropriated in Defense Health Programs, not RDT&E.

These funds are not included in "6.2" (applied research).

<sup>2</sup> R&D support in military personnel, O&M, and other appropriations. Includes R&D on chemical agents and munition destruction.

Character of work ("6.x" categories) are expressed in total obligational authority (TOA).

BA Adjustment converts TOA into budget authority.

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

**Please see Chapter 6 for a discussion of DOD R&D.**

Table II-3. DOD R&D by Departments and Agencies

**Table II-3.** DOD R&D by Military Departments and Agencies  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02	
				Amount	Percent
<b>Research, Development, Test, and Evaluation (RDT&amp;E)</b>					
Army	5,330	6,242	<b>6,415</b>	173	2.8%
Navy	9,044	9,427	<b>9,666</b>	239	2.5%
Air Force	14,511	13,914	<b>14,225</b>	311	2.2%
Defense Agencies	9,525	11,021	<b>11,260</b>	239	2.2%
<i>Ballistic Missile Defense Org.</i>	3,428	4,195	<b>4,283</b>	88	2.1%
<i>Def. Adv. Res. Projects Agency</i>	1,876	1,997	<b>2,039</b>	42	2.1%
<i>Other</i>	4,221	4,829	<b>4,938</b>	109	2.3%
Transfer account (unallocated)	0	0	<b>2,600</b>	2,600	--
Director of Test and Evaluation	265	0	<b>0</b>	0	--
Director of Operational Test & Eval.	31	223	<b>230</b>	7	3.1%
Total RDT&E	38,706	40,829	<b>44,396</b>	3,567	8.7%
Medical Research <sup>1</sup>	295	412	<b>421</b>	9	2.2%
Other Appropriations <sup>2</sup>	958	1,017	<b>1,038</b>	21	2.1%
<b>Total DOD R&amp;D</b>	39,959	42,258	<b>45,855</b>	3,597	8.5%

Source: OMB data for R&D, *Budget of the U.S. Government FY 2002*, and AAAS estimates of R&D in FY 2001 appropriations bills.

Note: FY 2002 DOD figures represent a projection from FY 2001 funding levels plus inflation, plus an additional \$2.6 billion (development) for unspecified projects. The revised FY 2002 request will be released in June upon completion of the Defense Strategy Review.

<sup>1</sup> Medical research appropriated in Defense Health Programs, not RDT&E.

<sup>2</sup> R&D support in military personnel, O&M, and other appropriations.

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

**Please see Chapter 6 for a discussion of DOD R&D.**

Table II-4. DOD R&amp;D by Character of Work

**Table II-4.** Department of Defense R&D by Character of Work  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02 Amount	Percent
<b>Current Dollars</b>					
Basic Research	1,136	1,317	<b>1,345</b>	28	2.1%
Applied Research <sup>1</sup>	3,704	4,076	<b>4,169</b>	93	2.3%
Total Research	4,840	5,393	<b>5,514</b>	121	2.2%
Development	35,022	36,685	<b>40,157</b>	3,472	9.5%
Total Conduct of R&D	39,862	42,078	<b>45,671</b>	3,593	8.5%
R&D Facilities <sup>2</sup>	97	180	<b>184</b>	4	2.2%
<b>Total DOD R&amp;D</b>	39,959	42,258	<b>45,855</b>	3,597	8.5%
<b>Constant FY 2001 Dollars</b>					
Basic Research	1,160	1,317	<b>1,317</b>	0	0.0%
Applied Research <sup>1</sup>	3,783	4,076	<b>4,083</b>	7	0.2%
Total Research	4,943	5,393	<b>5,401</b>	8	0.1%
Development	35,766	36,685	<b>39,332</b>	2,647	7.2%
Total Conduct of R&D	40,709	42,078	<b>44,732</b>	2,654	6.3%
R&D Facilities <sup>1</sup>	99	180	<b>180</b>	0	0.1%
<b>Total DOD R&amp;D</b>	40,808	42,258	<b>44,913</b>	2,655	6.3%

Source: OMB data for R&D for FY 2002, additional data from *Budget of the United States Government FY 2002*.

Note: FY 2002 DOD figures represent a projection from FY 2001 funding levels plus inflation, plus an additional \$2.6 billion (development) for unspecified projects. The revised FY 2002 request will be released in June upon completion of the Defense Strategy Review.

<sup>1</sup> Includes medical research appropriated outside RDT&E.

<sup>2</sup> Includes expenses for major capital equipment used for R&D.

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

**Please see Chapter 6 for a discussion of DOD R&D.**

Table II-5. DOD Military Budget

**Table II-5.** Department of Defense Military Budget  
(discretionary budget authority in BILLIONS of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
By Program:					
RDT&E	38.7	40.8	<b>44.4</b>	3.6	8.7%
Military Personnel	73.8	75.4	<b>80.3</b>	4.8	6.4%
Operations and Maintenance	108.1	108.0	<b>115.4</b>	7.5	6.9%
Procurement	55.0	62.1	<b>59.5</b>	-2.6	-4.2%
Military Construction	5.1	5.3	<b>5.5</b>	0.2	4.0%
Family Housing	3.5	3.6	<b>4.1</b>	0.5	13.2%
Revolving and Management Funds	3.1	1.0	<b>1.2</b>	0.2	16.7%
<b>Total DOD Discret. Budget</b>	<b>287.3</b>	<b>296.3</b>	<b>310.5</b>	<b>14.1</b>	<b>4.8%</b>
By Service:					
Army	72.9	72.5	<b>75.7</b>	3.2	4.4%
Navy	76.5	80.4	<b>79.4</b>	-1.0	-1.3%
Marine Corps	11.2	11.4	<b>12.0</b>	0.6	5.2%
Air Force	83.1	85.2	<b>88.2</b>	3.0	3.5%
Defense-Wide	24.4	26.2	<b>26.9</b>	0.7	2.8%
Defense Health Program	12.5	12.1	<b>16.3</b>	4.2	35.1%
Base Realignment and Closure	0.7	1.0	<b>1.0</b>	0.0	2.1%
Other	5.9	7.6	<b>11.0</b>	3.4	44.9%
<b>Total DOD Discret. Budget</b>	<b>287.3</b>	<b>296.3</b>	<b>310.5</b>	<b>14.1</b>	<b>4.8%</b>

Source: *Budget of the United States Government FY 2002*.

Note: FY 2002 DOD figures represent a projection from FY 2001 funding levels plus inflation, plus additional funds for some program areas. The revised FY 2002 request will be released in June upon completion of the Defense Strategy Review. **Please see Chapter 6 for a discussion of DOD R&D.**

Table II-6. DOD R&D Trends, FY 1965-2002

**Table II-6.** Trends in Department of Defense R&D, FY 1965 - FY 2002  
(budget authority in millions of dollars)

Fiscal Year	Basic Research <sup>1</sup>		Total DOD R&D	
	Current Dollars	Constant FY 2001 \$	Current Dollars	Constant FY 2001 \$
1965	347	1,601	6,865	31,665
1970	323	1,238	7,491	28,701
1975	305	861	9,167	25,874
1980	552	1,076	14,150	27,583
1985	851	1,264	31,632	46,977
1986	954	1,383	35,000	50,756
1987	894	1,262	37,136	52,412
1988	897	1,226	38,126	52,105
1989	951	1,252	38,578	50,771
1990	931	1,181	37,869	48,030
1991	1,155	1,410	37,209	45,424
1992	1,140	1,356	37,779	44,944
1993	1,312	1,524	38,848	45,139
1994	1,179	1,341	35,510	40,387
1995	1,175	1,308	35,349	39,351
1996	1,098	1,199	35,783	39,053
1997	1,032	1,105	37,238	39,864
1998	1,012	1,068	37,569	39,655
1999	1,064	1,107	38,888	40,479
2000	1,136	1,160	39,959	40,808
2001 (estimate)	1,317	1,317	42,258	42,258
2002 (budget)	1,345	1,317	45,855	44,913

Source: National Science Foundation historical reports, the R-1, and OMB data on R&D for FY 2002. Constant dollar conversions based on OMB's GDP deflators.

Note: FY 2002 DOD figures represent a projection from FY 2001 funding levels plus inflation, plus an additional \$2.6 billion (development) for unspecified projects. The revised FY 2002 request will be released in June upon completion of the Defense Strategy Review.

<sup>1</sup> Budget authority for DOD "6.1" category. Some figures reflect later DOD revisions.

**Please see Chapter 6 for a discussion of DOD R&D.**

Table II-7. NSF R&amp;D

**Table II-7.** R&D in the National Science Foundation  
(budget authority in millions of dollars) \*

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02	
				Amount	Percent
<b>1. Research and Related Activities (R&amp;RA)</b>					
Mathematical and Physical Sciences (MPS)					
Mathematical Sciences	106	121	<b>141</b>	20	16.5%
Astronomical Sciences	123	149	<b>156</b>	8	5.1%
Physics	168	188	<b>184</b>	-4	-2.1%
Chemistry	139	154	<b>153</b>	0	0.0%
Materials Research	191	210	<b>205</b>	-4	-2.1%
Multidisciplinary Activities	30	30	<b>23</b>	-7	-21.8%
Total MPS	756	851	<b>864</b>	13	1.5%
Engineering (ENG)					
Bioengineering & Env. Sys.	34	39	<b>38</b>	-1	-1.9%
Chemical & Transport Systems Design, Manufacture, & Industrial Innovation	44	51	<b>50</b>	-1	-1.1%
Electrical & Commun. Sys.	109	126	<b>126</b>	0	-0.4%
Engineering Edu. & Centers	45	54	<b>57</b>	3	5.8%
Civil & Mechanical Systems	98	107	<b>107</b>	0	0.0%
	48	53	<b>52</b>	-1	-2.0%
Total ENG	380	431	<b>431</b>	0	0.1%
Biological Sciences (BIO)					
Molecular and Cellular Bioscis.	106	124	<b>121</b>	-3	-2.4%
Integrative Biology & Neurosci.	95	112	<b>113</b>	1	0.9%
Environmental Biology	89	110	<b>112</b>	2	1.7%
Biological Infrastructure	65	75	<b>72</b>	-2	-3.1%
Plant Genome Research	63	65	<b>65</b>	0	0.2%
Total BIO	418	485	<b>483</b>	-2	-0.5%
Geosciences (GEO)					
Atmospheric Sciences	164	188	<b>187</b>	-2	-1.0%
Earth Sciences	102	116	<b>117</b>	1	0.8%
Ocean Sciences	221	258	<b>255</b>	-3	-1.0%
Total GEO	488	562	<b>559</b>	-4	-0.6%
Computer and Information Science and Engineering (CISE)					
Computer-Communications Res	60	65	<b>64</b>	-1	-1.7%
Information and Intelligent Sys.	41	49	<b>48</b>	-1	-1.7%
Experimental and Integrative Activities	58	61	<b>58</b>	-3	-5.2%
(continued)					

Table II-7. NSF R&amp;D

**Table II-7 (continued).** R&D in the National Science Foundation  
(budget authority in millions of dollars) \*

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
Adv. Networking Infra. and Res.	61	66	<b>64</b>	-1	-1.7%
Adv. Compu. Infra. and Res.	78	82	<b>80</b>	-1	-1.7%
Information Tech. Research	90	155	<b>155</b>	0	0.0%
Total CISE	389	478	<b>470</b>	-8	-1.6%
Social, Behavioral, and Economic Sciences (SBE)					
Social & Economic Scis.	61	66	<b>66</b>	0	-0.4%
Behavioral & Cognitive Scis.	46	57	<b>57</b>	0	-0.4%
Int'l. Coop. Sci. Activities	40	26	<b>25</b>	-1	-2.4%
Science Resources Studies	15	16	<b>16</b>	0	-1.0%
Total SBE	162	164	<b>163</b>	-1	-0.8%
US Polar Programs					
Polar Research Programs	190	211	<b>214</b>	3	1.5%
Antarctic Logistical Support	68	62	<b>63</b>	0	0.2%
Total Polar Programs	258	273	<b>277</b>	3	1.2%
Integrative Activities	129	98	<b>81</b>	-17	-17.5%
BA Adjustment *	-7	0	<b>0</b>	0	--
<b>Total R&amp;RA *</b>	2,973	3,343	<b>3,327</b>	-16	-0.5%
2. Major Research Equipment	93	122	<b>96</b>	-25	-20.8%
3. Education & Human Resources (EHR)					
Educational System Reform	113	110	<b>45</b>	-65	-59.0%
Elem., Secondary, & Informal	186	203	<b>166</b>	-37	-18.3%
Undergraduate Education	117	141	<b>133</b>	-8	-5.9%
Graduate Education	79	88	<b>96</b>	8	8.8%
Human Resource Develop.	77	91	<b>90</b>	0	-0.3%
Math & Science Partnerships	0	0	<b>200</b>	200	--
Res., Eval. And Commun.	56	68	<b>68</b>	0	-0.2%
EPSCoR <sup>1</sup>	56	85	<b>75</b>	-10	-11.8%
BA Adjustment *	7	0	<b>0</b>	0	--
Total EHR	691	786	<b>872</b>	87	11.0%

(continued)

Table II-7. NSF R&amp;D

**Table II-7 (continued).** R&D in the National Science Foundation  
(budget authority in millions of dollars) \*

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
4. Salaries and Expenses	149	161	<b>170</b>	10	5.9%
5. Inspector General	6	6	<b>7</b>	0	7.8%
Total NSF Budget *	3,912	4,417	<b>4,473</b>	56	1.3%
<b>Deduct non-R&amp;D Activities:</b>					
<i>R&amp;RA non-R&amp;D</i>	266	325	<b>336</b>	11	3.5%
<i>EHR non-R&amp;D</i>	560	646	<b>733</b>	87	13.4%
<i>Salaries and Expenses</i>	149	161	<b>170</b>	10	5.9%
<i>Inspector General</i>	6	6	<b>7</b>	0	7.8%
<b>Total NSF R&amp;D</b>	2,931	3,279	<b>3,226</b>	-52	-1.6%
Conduct of R&D	2,724	3,016	<b>3,017</b>	1	0.0%
R&D Facilities	207	263	<b>209</b>	-53	-20.2%

Source: NSF budget justification and Quantitative Data Tables.

\* - Directorate detailed figures are in obligations. BA adjustment converts obligations to budget authority.

Does not include funding from H-1B Nonimmigrant Petitioner Fees.

<sup>1</sup> Experimental Program to Stimulate Competitive Research. FY 2001 includes \$10 million for Innovation Partnership Activities (\$4 million in FY 2000).

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

**Please see Chapter 7 for information on the NSF budget.**

Table II-8. HHS R&amp;D

**Table II-8.** R&D in the Department of Health and Human Services  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02 Amount	Percent
<b>Health</b>					
National Institutes of Health	17,234	19,710	<b>22,395</b>	2,685	13.6%
Centers for Disease Control	470	517	<b>568</b>	51	9.9%
Food and Drug Administration	132	138	<b>140</b>	2	1.4%
Health Care Financing Admin.	43	139	<b>55</b>	-84	-60.4%
Health Resources & Svcs. Admin.	24	26	<b>28</b>	2	7.7%
Departmental Management	45	47	<b>10</b>	-37	-78.7%
Healthcare Research and Quality <sup>1</sup>	165	226	<b>255</b>	29	12.8%
Total Health R&D	18,113	20,803	<b>23,451</b>	2,648	12.7%
<b>Human Services</b>					
Admin. For Children and Families	37	25	<b>27</b>	2	8.0%
Office of Aging	32	31	<b>18</b>	-13	-41.9%
Total Human Services R&D	69	56	<b>45</b>	-11	-19.6%
<b>Total HHS R&amp;D</b>	18,182	20,859	<b>23,496</b>	2,637	12.6%
<b>Dept. of Health and Human Services Budget</b> (includes R&D components above)					
Food and Drug Administration	1,050	1,122	<b>1,212</b>	90	8.0%
Health Resources & Svcs. Admin.	4,802	6,927	<b>5,202</b>	-1,725	-24.9%
Indian Health Services	2,426	2,734	<b>2,812</b>	78	2.9%
Centers for Disease Control	2,981	3,955	<b>3,961</b>	6	0.2%
National Institutes of Health	17,837	20,468	<b>23,219</b>	2,751	13.4%
Substance Abuse & Mental Health	2,651	2,957	<b>3,029</b>	72	2.4%
Medicaid	117,744	128,853	<b>142,423</b>	13,570	10.5%
Medicare <sup>2</sup>	200,588	218,960	<b>229,861</b>	10,901	5.0%
Admin. for Children and Families	36,981	43,149	<b>45,786</b>	2,637	6.1%
Admin. on Aging	933	1,103	<b>1,098</b>	-5	-0.5%
Other <sup>3</sup>	4,456	6,142	<b>14,260</b>	8,118	132.2%
<b>Total HHS Budget</b>	392,449	436,370	<b>472,863</b>	36,493	8.4%

Source: *Budget of the United States Government FY 2002*, OMB R&D data for FY 2002 and agency budget justification. Includes budget authority from appropriations, permanent appropriations, and trust funds.

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

<sup>1</sup> Formerly the Agency for Health Care Policy and Research.

Figures reflect estimated R&D program levels from all receipts, not just appropriated BA.

<sup>2</sup> Net BA after subtracting receipts from premiums, etc.

<sup>3</sup> Includes offsetting receipts. Includes Administration drug benefit proposal (FY 01-02).

**Please see Chapter 8 for a discussion of HHS R&D.**

Table II-9. NIH R&amp;D by Institute

**Table II-9.** R&D in the National Institutes of Health by Institute  
(budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
Cancer	3,300	3,738	<b>4,177</b>	439	11.8%
Heart, Lung and Blood	2,025	2,299	<b>2,567</b>	268	11.7%
Dental & Cranofacial Research	269	306	<b>342</b>	36	11.7%
Diabetes & Digestive & Kidney Dis.	1,141	1,304	<b>1,458</b>	154	11.8%
Neurological Disorders and Stroke	1,030	1,177	<b>1,316</b>	139	11.8%
Allergy and Infectious Diseases	1,812	2,063	<b>2,355</b>	292	14.2%
General Medical Sciences	1,371	1,540	<b>1,720</b>	180	11.7%
Child Health & Human Dev.	861	979	<b>1,097</b>	118	12.0%
Eye	450	511	<b>571</b>	61	11.8%
Environmental Health Sciences <sup>1</sup>	503	566	<b>632</b>	66	11.7%
Aging	688	786	<b>880</b>	94	11.9%
Arthritis & Musculoskeletal & Skin	349	397	<b>444</b>	47	11.8%
Deafness & Commun. Disorders	264	301	<b>337</b>	36	11.8%
Mental Health	974	1,107	<b>1,238</b>	132	11.9%
Drug Abuse	687	781	<b>907</b>	126	16.2%
Alcohol Abuse and Alcoholism	293	341	<b>382</b>	41	12.1%
Nursing Research	90	105	<b>118</b>	13	11.9%
Research Resources	675	817	<b>974</b>	157	19.2%
Human Genome Research	336	382	<b>427</b>	45	11.7%
Complementary & Alternative Med.	78	89	<b>100</b>	11	12.3%
Fogarty International Center	43	50	<b>56</b>	6	11.8%
National Library of Medicine	215	246	<b>276</b>	29	11.9%
Office of the Director	162	188	<b>232</b>	45	23.8%
Minority Health/Health Disparities <sup>2</sup>	98	132	<b>158</b>	26	20.0%
Biomed. Imaging/Bioengineering <sup>3</sup>	0	2	<b>40</b>	38	1935.7%
Buildings and Facilities	165	154	<b>307</b>	153	99.4%
<b>Total NIH Budget</b>	<b>17,880</b>	<b>20,361</b>	<b>23,112</b>	<b>2,751</b>	<b>13.5%</b>
add Mandatory Funds	37	103	<b>103</b>	0	0.0%
<i>minus Est. Research Training</i>	<i>540</i>	<i>592</i>	<b>645</b>	<i>54</i>	<i>9.1%</i>
<i>minus Other Non-R&amp;D</i>	<i>143</i>	<i>162</i>	<b>175</b>	<i>13</i>	<i>7.8%</i>
<b>Total NIH R&amp;D</b>	<b>17,234</b>	<b>19,710</b>	<b>22,394</b>	<b>2,685</b>	<b>13.6%</b>

Source: OMB data for R&D for FY 2002 and NIH budget office documents.

<sup>1</sup> Funding for all years includes Superfund-related transfers and appropriations.

<sup>2</sup> New institute for FY 2001 created by Public Law 106-525. FY 2000 funding in Office of the Director adjusted for comparability.

<sup>3</sup> New institute for FY 2001 created by Public Law 106-580.

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

**Please see Chapter 8 for a discussion of NIH R&D.**

Table II-10. NIH by Funding Mechanism

**Table II-10.** National Institutes of Health by Funding Mechanism  
(budget authority in millions of dollars) <sup>1</sup>

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02 Amount	Percent
Research Project Grants <sup>2</sup>	9,807	11,117	<b>12,518</b>	1,401	12.6%
{# of Non-Competing}	21,789	23,246	<b>24,932</b>	1,686	7.3%
{# of New / Competing}	8,880	9,158	<b>9,158</b>	0	0.0%
{Total # of Grants}	30,669	32,404	<b>34,090</b>	1,686	5.2%
SBIR / STTR Grants <sup>3</sup>	362	414	<b>474</b>	59	14.3%
Research Centers	1,563	1,857	<b>2,080</b>	223	12.0%
Other Research	1,439	1,675	<b>1,878</b>	203	12.1%
R&D Contracts	1,164	1,326	<b>1,595</b>	268	20.2%
Intramural Research	1,761	1,959	<b>2,159</b>	200	10.2%
Research Mngmt. & Support	601	693	<b>779</b>	86	12.5%
Research Training	540	592	<b>645</b>	54	9.1%
Library of Medicine	215	246	<b>276</b>	29	11.9%
Office of the Director	162	188	<b>232</b>	45	23.8%
NIEHS Appropriation (Superfund)	60	63	<b>70</b>	7	11.7%
Buildings and Facilities	165	154	<b>307</b>	153	99.4%
Extramural Facilities Construction	77	78	<b>100</b>	22	28.2%
Mandatory Funds *	0	103	<b>103</b>	0	0.0%
<b>Total NIH Programs</b>	<b>17,917</b>	<b>20,464</b>	<b>23,215</b>	<b>2,751</b>	<b>13.4%</b>
<i>minus Mandatory funds *</i>	<i>-37</i>	<i>-103</i>	<i>-103</i>	<i>0</i>	<i>0.0%</i>
<b>Total NIH Budget</b>	<b>17,880</b>	<b>20,361</b>	<b>23,112</b>	<b>2,751</b>	<b>13.5%</b>

Source: NIH budget justification. Totals may not add due to rounding.

\* Mandatory funds distributed by mechanism in FY 2000, listed separately FY 2001 and 2002.

<sup>1</sup> All NIH support, including non-R&D activities such as research training.

<sup>2</sup> Excludes SBIR / STTR grants.

<sup>3</sup> Small Business Innovation Research / Small Business Technology Transfer.

**Please see Chapter 8 for a discussion of the NIH budget.**

Table II-11. Department of Energy R&amp;D

**Table II-11.** R&D in the Department of Energy  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02 Amount	Percent
<b>Summary of DOE R&amp;D (see notes at end of table):</b>					
1. Energy Supply *	333	409	<b>284</b>	-125	-30.5%
2. Science *	2,662	2,955	<b>2,930</b>	-25	-0.8%
3. Fossil Energy	290	396	<b>296</b>	-100	-25.3%
4. Energy Conservation *	410	441	<b>316</b>	-125	-28.3%
5. Atomic Energy Defense	3,201	3,499	<b>3,542</b>	42	1.2%
6. Clean Coal Technology <sup>1</sup>	0	0	<b>0</b>	0	--
7. Radioactive Waste Management	60	45	<b>31</b>	-13	-29.9%
<b>Total DOE R&amp;D</b>	<b>6,956</b>	<b>7,744</b>	<b>7,399</b>	<b>-346</b>	<b>-4.5%</b>
<b>Detail of DOE R&amp;D:</b>					
1. Energy Supply (does not include non-R&D components)					
Renewable Energy Resources *	268	328	<b>227</b>	-101	-30.8%
Nuclear Energy	66	81	<b>57</b>	-24	-29.4%
Total Energy Supply R&D	333	409	<b>284</b>	-125	-30.5%
2. Science (does not include non-R&D components) <sup>2</sup>					
High-Energy Physics *	678	702	<b>706</b>	4	0.6%
- <i>Large Hadron Collider</i>	70	59	<b>49</b>	-10	-16.8%
Nuclear Physics	340	355	<b>355</b>	0	0.0%
Fusion Energy Sciences *	239	245	<b>245</b>	0	0.1%
Basic Energy Sciences					
Materials Sciences	389	443	<b>434</b>	-9	-2.0%
Chemical Sciences	198	217	<b>219</b>	2	1.0%
Engineering & Geosciences	36	40	<b>39</b>	-1	-2.1%
Energy Biosciences	30	33	<b>32</b>	-1	-2.5%
Equipment & Construction	100	259	<b>280</b>	21	8.3%
- <i>Spallation Neutron Source</i> <sup>3</sup>	118	278	<b>291</b>	13	4.8%
Adjustment <sup>2</sup>	4	-8	<b>-8</b>	0	0.0%
Total BES	756	984	<b>997</b>	13	1.3%
Advanced Scientific Computing Research * <sup>4</sup>					
Math., Info. and Compu. Sci.	114	156	<b>156</b>	0	0.0%
Laboratory Technology Res.	8	10	<b>7</b>	-3	-28.2%
Adjustment <sup>2</sup>	2	0	<b>0</b>	0	--
Total ASCR	124	166	<b>163</b>	-3	-1.6%

(continued)

Table II-11. Department of Energy R&amp;D

**Table II-11 (continued).** R&D in the Department of Energy  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02	
				Amount	Percent
Biological and Environmental Research					
Life Sciences	161	192	<b>186</b>	-6	-3.3%
Environmental Processes	123	130	<b>129</b>	0	-0.2%
Environmental Remediation	64	61	<b>66</b>	5	7.6%
Medical Apps./ Measurement	68	96	<b>51</b>	-45	-46.9%
Construction	0	2	<b>10</b>	8	300.8%
Adjustment <sup>2</sup>	6	-1	<b>-1</b>	0	--
Total BER	422	481	<b>442</b>	-40	-8.2%
Energy Research Analyses *	1	1	<b>1</b>	0	2.5%
Small Bus. Innov. Research	84	0	<b>0</b>	0	--
Multiprogram Lab Support	19	22	<b>22</b>	0	0.0%
Total Science R&D *	2,662	2,955	<b>2,930</b>	-25	-0.8%
3. Fossil Energy R&D (does not include non-R&D components)					
Clean Coal Power Initiative <sup>5</sup>	0	0	<b>150</b>	150	--
Fuels and Power Systems <sup>5</sup>	208	324	<b>160</b>	-164	-50.7%
Oil Technology	56	67	<b>30</b>	-36	-54.4%
Natural Gas Research	31	45	<b>21</b>	-24	-53.4%
Cooperative R&D	7	8	<b>0</b>	-8	-100.0%
Plant and Capital Equipment	3	4	<b>2</b>	-2	-48.6%
Adjustments (deduct non R&D)	-14	-52	<b>-67</b>	-15	29.8%
Total Fossil Energy R&D	290	396	<b>296</b>	-100	-25.3%
4. Energy Conservation *	410	441	<b>316</b>	-125	-28.3%
5. Atomic Energy Defense Activities (does not include non-R&D components)					
<b>National Nuclear Security Administration (NNSA) <sup>6</sup></b>					
Weapons Activities					
Stockpile R&D	204	246	<b>305</b>	60	24.3%
Adv. Simulation & Computing	637	747	<b>738</b>	-9	-1.2%
ICF Ignition and High Yield	219	234	<b>223</b>	-11	-4.6%
Nat'l Ignition Facility Constr.	247	197	<b>245</b>	48	24.2%
Other construction	124	149	<b>84</b>	-64	-43.2%
All Other Weapons R&D	707	785	<b>853</b>	68	8.7%
Total Weapons Acts. R&D	2,138	2,357	<b>2,449</b>	92	3.9%

(continued)

Table II-11. Department of Energy R&amp;D

**Table II-11 (continued).** R&D in the Department of Energy  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02 Amount	Percent
Nonproliferation & Verification	180	204	<b>195</b>	-9	-4.6%
Naval Reactors	655	669	<b>667</b>	-1	-0.2%
Fissile Materials Disposition	52	62	<b>67</b>	6	9.6%
<b>Total NNSA R&amp;D <sup>6</sup></b>	<b>3,024</b>	<b>3,292</b>	<b>3,379</b>	87	2.6%
Nuclear Safeguards & Security	26	26	<b>26</b>	0	0.0%
Environmental Management	146	176	<b>131</b>	-45	-25.3%
Intelligence	5	5	<b>5</b>	0	0.0%
<b>Total Atomic Defense R&amp;D</b>	<b>3,201</b>	<b>3,499</b>	<b>3,542</b>	42	1.2%
6. Clean Coal Technology <sup>1</sup>	0	0	<b>0</b>	0	- -
7. Radioactive Waste Management	60	45	<b>31</b>	-13	-29.9%
<b>Total DOE R&amp;D</b>	<b>6,956</b>	<b>7,744</b>	<b>7,399</b>	-346	-4.5%
Conduct of R&D	6,057	6,690	<b>6,329</b>	-362	-5.4%
R&D Facilities	899	1,054	<b>1,070</b>	16	1.5%
DOE R&D by Function:					
Defense	3,201	3,499	<b>3,542</b>	42	1.2%
General Science	2,662	2,955	<b>2,930</b>	-25	-0.8%
Energy	1,093	1,290	<b>927</b>	-363	-28.1%

Source: DOE budget justification, OMB data for R&D, and agency supporting documents.

\* FY 2002 figures have been modified to reflect amendments to the original request transferring funds to Renewable Energy Resources from Energy Conservation and to Fusion Energy Sciences from selected Science programs.

<sup>1</sup> Does not reflect previously appropriated funds in this program, nor rescissions and deferrals. True budget authority in this account is as follows: -\$146 million FY 2000; \$9 million FY 2001 (after \$95 mil. transfer to Fossil Energy); and \$82 million FY 2002.

<sup>2</sup> Does not include program direction, waste management, and other non-R&D costs. Adjustments align program costs with R&D, and adjust for use of prior-year balances.

<sup>3</sup> Development and construction costs. Development costs are in Materials Sciences.

<sup>4</sup> Formerly Computational and Technology Research.

<sup>5</sup> New program in FY 2002 of cost-shared, competitively awarded R&D and demonstration projects of coal technologies. Follows on FY 2001 Power Plant Improvement Initiative (in Fuels and Power Systems) of demonstration projects funded through a transfer from Clean Coal Technology. Adjustments subtract demonstration (non R&D) costs.

(continued)

Table II-11. Department of Energy R&D

<sup>6</sup> Semi-autonomous agency within DOE.

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

**Please see Chapter 9 for a discussion of DOE R&D.**

**Department of Energy Budget** (discretionary budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02	
				Amount	Percent
DOE Defense Programs:					
National Nuclear Security Administration (NNSA):					
Weapons Activities	4,564	5,069	<b>5,300</b>	231	4.6%
Other Nuclear Security Acts.	1,383	1,571	<b>1,477</b>	-95	-6.0%
Total NNSA	5,946	6,641	<b>6,777</b>	136	2.0%
Defense Env. Restoration	4,586	4,966	<b>4,549</b>	-417	-8.4%
Defense Facilities Closure Projects	1,062	1,080	<b>1,051</b>	-30	-2.8%
EM Privatization	83	-32	<b>142</b>	174	-542.3%
Other Defense Activities	683	866	<b>838</b>	-28	-3.2%
Total DOE Defense	12,360	13,521	<b>13,355</b>	-165	-1.2%
Science	2,825	3,155	<b>3,160</b>	4	0.1%
Energy Supply	584	661	<b>505</b>	-156	-23.6%
Fossil Energy	397	541	<b>449</b>	-92	-17.1%
Energy Conservation	750	815	<b>795</b>	-21	-2.5%
Other Programs (net)	213	390	<b>400</b>	11	2.7%
Non-defense Environmental Mngmt	302	279	<b>229</b>	-51	-18.1%
Power Marketing Administrations	229	200	<b>205</b>	5	2.5%
Departmental Administration & IG	116	106	<b>115</b>	9	8.3%
<b>Total DOE Budget</b>	17,776	19,669	<b>19,213</b>	-456	-2.3%

Source: Department of Energy budget justification.

DOE appropriations only (discretionary).

Includes R&D and non-R&D components.

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

**Please see Chapter 9 for a discussion of DOE R&D.**

Table II-12. NASA R&amp;D

**Table II-12.** R&D in the National Aeronautics and Space Administration  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02	
				Amount	Percent
<b>Summary of R&amp;D by Appropriation:*</b>					
1. Human Space Flight (HSF)					
International Space Station	2,323	2,113	<b>2,087</b>	-25	-1.2%
Other HSF R&D	691	788	<b>737</b>	-51	-6.4%
Total HSF R&D	3,014	2,901	<b>2,825</b>	-76	-2.6%
2. Science, Aeronautics and Technology (SAT)					
Space Science	2,524	2,625	<b>2,786</b>	162	6.2%
Biological & Physical Research	340	379	<b>361</b>	-18	-4.7%
Earth Science	1,690	1,716	<b>1,515</b>	-201	-11.7%
Aero-Space Technology	1,834	2,214	<b>2,376</b>	161	7.3%
Academic Programs	139	133	<b>154</b>	21	15.8%
Total SAT	6,528	7,067	<b>7,192</b>	125	1.8%
<i>minus non R&amp;D in SAT</i>	<i>-47</i>	<i>-42</i>	<i>-50</i>	<i>-7</i>	<i>17.5%</i>
Total SAT R&D	6,481	7,024	<b>7,142</b>	118	1.7%
<b>Total NASA R&amp;D</b>	9,494	9,925	<b>9,967</b>	41	0.4%
NASA Non-R&D Activities	4,107	4,328	<b>4,545</b>	217	5.0%
<b>Total NASA Budget</b>	13,602	14,253	<b>14,511</b>	258	1.8%
<b>Detail of R&amp;D in NASA Appropriations: *</b>					
1. Human Space Flight (HSF)					
Russian Program Assurance	200	24	<b>200</b>	176	731.9%
Vehicle	950	717	<b>743</b>	26	3.6%
Crew Return Vehicle	75	90	<b>75</b>	-15	-16.5%
Research	394	457	<b>284</b>	-174	-38.0%
Operations Capability	704	825	<b>786</b>	-38	-4.7%
Total Int'l. Space Station	2,323	2,113	<b>2,087</b>	-25	-1.2%
Space Operations R&D	203	235	<b>178</b>	-57	-24.2%
Other HSF R&D incl. Support*	494	558	<b>564</b>	6	1.1%
<i>Minus Non-R&amp;D in Space Sta.</i>	<i>-7</i>	<i>-6</i>	<i>-6</i>	<i>0</i>	<i>0.0%</i>
Total HSF R&D	3,014	2,901	<b>2,825</b>	-76	-2.6%

(continued)

Table II-12. NASA R&amp;D

**Table II-12 (continued).** R&D in the National Aeronautics and Space Administration (budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
<b>2. Science, Aeronautics and Technology (SAT)</b>					
Space Science					
Chandra X-Ray Observatory	4	0	0	0	--
SIRTF <sup>1</sup>	123	118	106	-12	-10.5%
Hubble Space Telescope	184	180	162	-18	-9.9%
Relativity Mission	50	41	40	-1	-2.4%
TIMED <sup>2</sup>	28	13	0	-13	-100.0%
Stratospheric Observatory	42	39	37	-2	-4.9%
Solar Terrestrial Relations	0	0	50	50	--
Gamma-Ray Large Area Tele.	0	0	19	19	--
Payload & Instru. Develop.	14	33	45	11	34.0%
Explorers	123	141	155	14	9.7%
Discovery	150	213	217	4	1.9%
Mars Exploration	249	428	431	3	0.8%
Mission Operations	79	85	105	20	23.4%
Technology Program	581	419	479	60	14.2%
Research Program	567	597	607	10	1.6%
Investments	0	13	0	-13	-100.0%
Institutional Support *	330	304	333	30	9.8%
Total Space Science	2,524	2,625	2,786	162	6.2%
Biological and Physical Research					
Adv. Human Support Tech.	30	31	31	0	0.9%
Biomedical Research	57	70	67	-3	-4.9%
Fundamental Space Biology	38	41	39	-1	-3.5%
Physical Sciences Research	109	131	130	-1	-0.4%
Space Product Development	14	14	15	1	6.0%
Health Research	9	12	9	-2	-19.8%
Mission Integration	17	15	0	-15	-98.6%
Investments/ Instit. Support *	66	66	70	4	5.7%
Total Bio. and Phys. Res.	340	379	361	-18	-4.7%
Earth Science					
Earth Observing System	480	414	372	-42	-10.2%
EOS Data Info. System	279	281	253	-29	-10.2%
Earth Explorers	163	141	85	-57	-40.1%
Earth Sci. Program Science	286	351	357	7	1.9%
Apps., Education, Outreach	84	114	63	-51	-44.6%

(continued)

Table II-12. NASA R&amp;D

**Table II-12 (continued).** R&D in the National Aeronautics and Space Administration (budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
Technology Infusion	95	115	<b>96</b>	-19	-16.5%
Mission Operations	48	58	<b>52</b>	-6	-9.6%
Investments	7	10	<b>0</b>	-10	-100.0%
Institutional Support *	248	232	<b>237</b>	5	2.3%
Total Earth Science	1,690	1,716	<b>1,515</b>	-201	-11.7%
Aero-Space Technology					
Aero-Space Res. & Tech.	985	1,242	<b>1,358</b>	116	9.3%
<i>Research and Tech. Base</i>	564	714	<b>637</b>	-77	-10.8%
<i>Focused Programs</i>	422	528	<b>721</b>	193	36.6%
- <i>Aviation System Capacity</i>	63	68	<b>101</b>	32	47.0%
- <i>Aviation Safety</i>	64	71	<b>70</b>	-1	-1.2%
- <i>Ultra Efficient Engine</i>	68	48	<b>40</b>	-8	-16.5%
- <i>2nd Generation RLV</i>	0	272	<b>475</b>	203	75.0%
- <i>X-33/X-34/Future-X</i>	183	18	<b>0</b>	-18	-100.0%
Aerospace Institut. Support *	709	810	<b>871</b>	61	7.5%
Commercial Tech. Programs	140	162	<b>147</b>	-16	-9.6%
Total Aero-Space Tech.	1,834	2,214	<b>2,376</b>	161	7.3%
Academic Programs					
Education Programs	85	77	<b>72</b>	-5	-6.8%
Minority Res. and Edu.	54	56	<b>82</b>	26	46.9%
Total Academic Programs	139	133	<b>154</b>	21	15.8%
Conduct of R&D	6,405	6,939	<b>7,033</b>	94	1.4%
R&D Facilities & Capital Equip.	3,089	2,987	<b>2,934</b>	-53	-1.8%

Source: OMB R&D data for FY 2002, agency budget justification, and agency documents.

\* NOTE: The NASA budget accounts have been reorganized in FY 2002. Program support costs formerly funded in the Mission Support account are allocated to the HSF and SAT accounts. Most of these reallocated costs can be found in the Institutional Support lines within each program. Also, Space Operations costs are moved from SAT to HSF. FY 2000 and FY 2001 figures have been adjusted for comparability.

<sup>1</sup> Space Infrared Telescope Facility.

<sup>2</sup> Thermosphere, Ionosphere, Mesosphere Energetics and Dynamics.

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

**Please see Chapter 10 for a discussion of NASA R&D.**

Table II-12. NASA R&D

**NASA Non-R&D Activities** (budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
Non R&D in SAT	47	42	<b>50</b>	7	17.5%
Non-R&D in Space Station (HSF)	7	6	<b>6</b>	0	0.0%
Space Shuttle (in HSF)	3,000	3,119	<b>3,284</b>	165	5.3%
Space Operations Non R&D (HSF) <sup>1</sup>	293	286	<b>304</b>	18	6.1%
Payload & ELV Non R&D (HSF)	70	90	<b>91</b>	1	1.4%
Safety, Mission Assurance (HSF)	43	47	<b>48</b>	0	0.8%
Investm./Support Non R&D (HSF) *	628	714	<b>739</b>	25	3.5%
Inspector General	20	23	<b>24</b>	1	3.5%
Total NASA Non-R&D Activities	4,107	4,328	<b>4,545</b>	217	5.0%

Source: *Budget of the United States Government FY 2002* and agency budget justification.

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

\* NOTE: The NASA budget accounts have been reorganized in FY 2002. Program support costs formerly funded in the Mission Support account are allocated to the HSF and SAT accounts. Most of these reallocated costs can be found in the Institutional Support lines within each program. Also, Space Operations costs are moved from SAT to HSF. FY 2000 and FY 2001 figures have been adjusted for comparability.

Table II-13. U.S. Department of Agriculture R&amp;D

**Table II-13.** R&D in the U.S. Department of Agriculture  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02	
				Amount	Percent
<b>Agricultural Research Service (ARS)</b>					
Programs (conduct of R&D only)	774	851	<b>852</b>	1	0.1%
Buildings and Facilities <sup>1</sup>	135	162	<b>118</b>	-44	-27.2%
<b>Total ARS R&amp;D</b>	<b>909</b>	<b>1,013</b>	<b>970</b>	<b>-43</b>	<b>-4.2%</b>
<b>Cooperative State Research, Education, and Extension Service (CSREES)</b>					
Research & Education Progs.	544	595	<b>469</b>	-126	-21.2%
<i>National Research Initiative</i>	119	106	<b>106</b>	0	0.0%
<i>Hatch Act (Ag. Experiment)</i>	181	180	<b>180</b>	0	0.0%
<i>Special Research Grants</i>	64	92	<b>7</b>	-85	-92.4%
<i>Integrative Activities</i>	17	19	<b>19</b>	0	0.0%
<i>Initiative for Future Agri.</i> <sup>3</sup>	64	64	<b>64</b>	0	0.0%
<i>All Other</i>	99	134	<b>93</b>	-41	-30.6%
<b>Total CSREES R&amp;D</b> <sup>3</sup>	<b>544</b>	<b>595</b>	<b>469</b>	<b>-126</b>	<b>-21.2%</b>
Forest Service	215	245	<b>250</b>	5	2.0%
Economic Research Service	64	66	<b>67</b>	1	1.5%
Agricultural Marketing Service	5	5	<b>5</b>	0	0.0%
National Agricultural Statistics	4	4	<b>4</b>	0	0.0%
Animal and Plant Inspection	21	22	<b>23</b>	1	4.5%
Federal Grain Inspection	3	5	<b>6</b>	1	20.0%
Foreign Agricultural Service	1	1	<b>1</b>	0	0.0%
Office of the Secretary <sup>2</sup>	10	5	<b>8</b>	3	60.0%
<b>Total USDA R&amp;D</b>	<b>1,776</b>	<b>1,961</b>	<b>1,803</b>	<b>-158</b>	<b>-8.1%</b>

Source: OMB data for R&D for FY 2002, USDA budget documents, and USDA budget office.

<sup>1</sup> Includes repair and maintenance funded through the Programs account.

<sup>2</sup> Mandatory spending from the Fund for Rural America. R&D portion only.

<sup>3</sup> Public Law 105-185 created a \$120 million a year mandatory (non-appropriated) program of competitive grants for agricultural research from FY 1999 to FY 2003.

Table shows R&D portions of the IFAFS program.

FY 2001 ARS and CSREES figures include mandatory R&D funds appropriated in the Agricultural Risk Protection Act (Public Law 106-224).

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

**Please see Chapter 11 for more information on USDA R&D.**

Table II-14. Department of Commerce R&amp;D

**Table II-14.** R&D in the Department of Commerce  
(budget authority in millions of dollars)

	FY 2000 Actual	FY 2001 Estimate	FY 2002 Budget	Change FY 01-02	
				Amount	Percent
National Oceanic and Atmospheric Administration (NOAA - Non R&D excluded)					
National Ocean Service	56	64	<b>64</b>	0	0.5%
Nat'l Marine Fisheries Srv.	254	311	<b>329</b>	19	6.0%
Oceanic and Atmos. Res.	257	269	<b>290</b>	21	7.8%
National Weather Service	20	23	<b>28</b>	5	20.4%
Other NOAA R&D	56	59	<b>61</b>	2	3.8%
Total NOAA R&D	643	726	<b>772</b>	47	6.4%
National Institute of Standards and Technology (NIST - Non-R&D components excluded)					
1. Scientific and Technical Research and Services (STRS)					
Electronics & Elec. Eng.	38	39	<b>41</b>	1	3.0%
Manufacturing Engineering	18	19	<b>19</b>	1	3.1%
Chemical Sci. and Tech.	33	35	<b>38</b>	4	10.9%
Physics	28	30	<b>35</b>	5	15.2%
Materials Science and Eng.	40	42	<b>47</b>	6	14.1%
Building and Fire Research	14	17	<b>15</b>	-2	-9.3%
Computer Sci./ Applied Math.	43	47	<b>52</b>	4	8.9%
Technology Assistance	3	3	<b>4</b>	0	3.1%
Critical Infrastructure	0	4	<b>4</b>	0	0.1%
Research Support / Equip.	31	31	<b>36</b>	5	16.3%
Total STRS R&D	248	268	<b>292</b>	24	8.9%
2. Advanced Tech. Program	116	118	<b>0</b>	-118	-100.0%
3. Construction	107	35	<b>21</b>	-14	-40.0%
Total NIST R&D	471	421	<b>313</b>	-108	-25.7%
Dept. Administration	1	1	<b>1</b>	0	0.0%
Nat'l Telecomm. & Info. Admin.	20	51	<b>21</b>	-30	-58.8%
- Telecommunication Sci. Res.	4	5	<b>5</b>	0	0.0%
- Tech. Opportunity Grants	16	46	<b>16</b>	-30	-65.2%
Bureau of the Census	38	2	<b>2</b>	0	0.0%
Economic Development Admin.	1	1	<b>1</b>	0	0.0%
<b>Total Commerce R&amp;D</b>	1,174	1,201	<b>1,110</b>	-91	-7.6%

Source: OMB data for R&D, NOAA and NIST R&D documents, and agency budget summaries. Figures are rounded to the nearest million. Changes calculated from unrounded figures.

**Please see Chapter 12 for a discussion of Commerce R&D.**

Table II-15. Department of Transportation R&amp;D

**Table II-15.** R&D in the Department of Transportation  
(budget authority in millions of dollars) \*

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
Federal Aviation Administration	220	301	<b>276</b>	-25	-8.3%
Federal Highway Administration	261	294	<b>374</b>	81	27.5%
- <i>Surface Transportation Res.</i>	66	73	<b>114</b>	40	54.9%
- <i>Intelligent Transportation Sys.</i>	45	51	<b>74</b>	23	45.5%
- <i>State Planning and Research</i>	132	153	<b>147</b>	-7	-4.4%
- <i>All Other</i>	17	16	<b>40</b>	24	150.0%
Federal Transit Administration	12	13	<b>5</b>	-8	-61.8%
Nat'l High. Traffic & Safety Adm.	51	58	<b>59</b>	1	1.3%
Federal Railroad Administration	25	28	<b>31</b>	3	11.7%
Office of the Secretary	5	11	<b>5</b>	-6	-52.7%
Research & Special Programs	7	9	<b>10</b>	0	5.2%
Coast Guard	20	22	<b>23</b>	0	2.0%
Nat'l Motor Carrier Safety Admin.	6	10	<b>14</b>	4	43.8%
<b>Total DOT R&amp;D</b>	607	747	<b>798</b>	51	6.8%

Source: OMB data for R&D for FY 2002; agency budget justification; agency documents.

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

\* - DOT budget includes budget authority, limitations on obligations, and other resources.

**DOT Budget** (includes R&D components; budget authority in millions): \*

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
Federal Highway Administration	29,958	36,319	<b>35,330</b>	-989	-2.7%
Federal Aviation Administration	10,946	11,976	<b>12,957</b>	981	8.2%
Federal Transit Administration	7,451	6,272	<b>6,746</b>	474	7.6%
Coast Guard	4,831	4,635	<b>5,179</b>	544	11.7%
Federal Railroad Administration	739	751	<b>701</b>	-50	-6.7%
Nat'l Highway Traffic Safety Admin.	367	404	<b>419</b>	15	3.7%
All Other <sup>1</sup>	732	892	<b>864</b>	-28	-3.1%
Miscellaneous Receipts	-278	-204	<b>-262</b>	-58	28.4%
<b>Total DOT Budget *</b>	54,746	61,045	<b>61,934</b>	889	1.5%

Source: *Budget of the United States Government FY 2002*.

\* - DOT budget includes budget authority, limitations on obligations, and other resources.

<sup>1</sup> Includes Office of Secretary, RSPA, Maritime Administration, Bureau of Transportation Statistics, and others.

**Please see Chapter 12 for a discussion of DOT R&D.**

Table II-16. Department of the Interior R&amp;D

**Table II-16.** R&D in the Department of the Interior  
(budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
U.S. Geological Survey	506	549	<b>491</b>	-59	-10.7%
<i>National Mapping, Geography</i>	27	28	<b>26</b>	-1	-4.6%
<i>Geologic &amp; Mineral Resources</i>	212	225	<b>214</b>	-12	-5.1%
<i>Water Resources</i>	131	136	<b>101</b>	-35	-25.5%
<i>Biological Research</i>	137	161	<b>149</b>	-11	-7.0%
Minerals Management Service	31	32	<b>47</b>	15	46.9%
National Park Service	27	30	<b>30</b>	0	0.0%
Bureau of Reclamation	5	6	<b>6</b>	0	0.0%
Bureau of Land Management	49	14	<b>19</b>	5	35.7%
<b>Total Interior R&amp;D</b>	618	631	<b>593</b>	-39	-6.1%
Conduct of R&D	601	625	<b>587</b>	-39	-6.2%
R&D Facilities	17	6	<b>6</b>	0	0.0%

Source: OMB data for R&amp;D for FY 2002 and agency supporting documents.

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

**Dept. of the Interior Budget** (includes R&D components above)  
(budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
Bureau of Land Management	1,616	2,248	<b>1,999</b>	-249	-11.1%
Minerals Management Service	811	1,240	<b>1,145</b>	-95	-7.7%
Office of Surface Mining...	411	515	<b>361</b>	-154	-29.9%
Bureau of Reclamation	848	841	<b>859</b>	18	2.1%
U.S. Geological Survey	816	884	<b>814</b>	-70	-7.9%
U.S. Fish and Wildlife Service	1,498	1,895	<b>1,783</b>	-112	-5.9%
National Park Service	2,071	2,429	<b>2,770</b>	341	14.0%
Bureau of Indian Affairs	1,961	2,217	<b>2,283</b>	66	3.0%
Other	857	774	<b>767</b>	-7	-0.9%
Misc. Offsetting Receipts	-2,495	-3,587	<b>-3,125</b>	462	-12.9%
<b>Total Interior Budget</b>	8,394	9,456	<b>9,656</b>	200	2.1%

Source: *Budget of the United States Government FY 2002*.

Includes budget authority from appropriations, trust funds, and permanent appropriations.

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

**Please see Chapter 12 for a discussion of Interior R&D.**

Table II-17. Environmental Protection Agency R&amp;D

**Table II-17.** R&D in the Environmental Protection Agency  
(budget authority in millions of dollars)

	FY 2000	FY 2001	<b>FY 2002</b>	Change FY 01-02	
	Actual	Estimate	<b>Budget</b>	Amount	Percent
<b>EPA R&amp;D:</b>					
Science and Technology <sup>1</sup>	535	569	<b>534</b>	-35	-6.2%
Leaking Undergrd. Storage Tanks	1	1	<b>1</b>	0	0.0%
Oil Spill Response	1	1	<b>1</b>	0	0.0%
Other R&D Support Costs	22	38	<b>34</b>	-4	-11.2%
<b>Total EPA R&amp;D</b>	558	609	<b>569</b>	-40	-6.5%
Conduct of R&D	537	575	<b>535</b>	-40	-6.9%
R&D Facilities and Equipment	21	34	<b>34</b>	0	0.0%
<b>EPA Budget (Includes R&amp;D components above):</b>					
Science and Technology <sup>2</sup>	682	732	<b>679</b>	-53	-7.2%
Environmental Progs. and Mngmt.	1,897	2,083	<b>1,973</b>	-110	-5.3%
Superfund <sup>2</sup>	1,362	1,230	<b>1,230</b>	0	0.0%
State and Tribal Assistance Grants	3,448	3,621	<b>3,289</b>	-332	-9.2%
Buildings and Facilities	62	24	<b>25</b>	1	4.2%
Leaking Undergrd. Storage Tanks	70	72	<b>72</b>	0	0.0%
Oil Spill Response	15	15	<b>15</b>	0	0.0%
Inspector General	32	34	<b>34</b>	0	0.0%
<b>Total EPA Appropriations</b>	7,568	7,811	<b>7,317</b>	-494	-6.3%

Source: OMB data for R&D for FY 2002, agency budget justification, information from agency budget office, and *Budget of the United States Government FY 2002*. Discretionary budget authority only. Excludes mandatory spending and offsets.

<sup>1</sup> Includes transfers from Superfund (\$38 mil. FY00; \$37 mil. FY 01 and 02).

<sup>2</sup> Transfers from Superfund to S&T account recorded under S&T.

**Please see Chapter 12 for a discussion of EPA R&D.**

Table II-18. Department of Education R&amp;D

**Table II-18.** R&D in the Department of Education  
(budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
Edu. Research and Improvement	127	142	<b>133</b>	-9	-6.3%
Special Education and Rehab.	92	103	<b>111</b>	8	7.8%
Vocational and Adult Education	13	13	<b>9</b>	-4	-30.8%
Elementary and Secondary Ed.	0	0	<b>0</b>	0	--
Postsecondary Education	6	7	<b>6</b>	-1	-14.3%
<b>Total Education R&amp;D</b>	238	265	<b>259</b>	-6	-2.3%
Conduct of R&D	238	265	<b>259</b>	-6	-2.3%
R&D Facilities	0	0	<b>0</b>	0	--

Source: OMB data for R&D for FY 2002 and agency budget justification.

**Dept. of Education Budget** (includes R&D components above)  
(DISCRETIONARY budget authority in millions of dollars)

	FY 2000	FY 2001	FY 2002	Change FY 01-02	
	Actual	Estimate	Budget	Amount	Percent
Elementary/ Secondary Education	14,716	17,677	<b>18,646</b>	969	5.5%
Bilingual Education	406	460	<b>460</b>	0	0.0%
Special Education	6,036	7,440	<b>8,426</b>	986	13.3%
Rehab. Services / Disability Res.	2,707	2,806	<b>2,930</b>	124	4.4%
Vocational and Adult Education	1,682	1,826	<b>1,802</b>	-24	-1.3%
Higher Education	1,530	1,912	<b>1,723</b>	-189	-9.9%
Student Financial Assistance	9,375	10,674	<b>11,674</b>	1,000	9.4%
Other higher education	268	281	<b>283</b>	2	0.7%
Edu. Research, Stats. Assessmt.	591	722	<b>382</b>	-340	-47.1%
Dept. Management	489	524	<b>543</b>	19	3.6%
Other	144	154	<b>154</b>	0	0.0%
<b>Total Education Budget</b>	37,944	44,476	<b>47,023</b>	2,547	5.7%

Source: *Budget of the United States Government FY 2002*. Includes budget authority originally enacted as discretionary proposed to be reclassified as mandatory in FY 02 budget. Figures for all years have been adjusted to move advance appropriations back to the year of the appropriations bills in which they were enacted (for example, FY 02 advance appropriations, enacted in FY 01 Labor-HHS bill, have been moved to FY 01).

**Please see Chapter 5 for a discussion of the Education budget.**