

# **Agency Tables**

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Table II-1. R&D in the FY 2001 Budget by Agency and Character of Work

**Table II-1.** R&D in the FY 2001 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
<b>TOTAL R&amp;D (Conduct of R&amp;D and R&amp;D Facilities)</b>					
Defense (military)	38,888	39,282	<b>38,576</b>	-706	-1.8%
<i>S&amp;T (6.1-6.3 + medical)</i>	7,612	8,667	<b>7,609</b>	-1,058	-12.2%
<i>All Other DOD R&amp;D</i>	31,276	30,615	<b>30,967</b>	352	1.1%
Health and Human Services	15,825	18,082	<b>19,168</b>	1,086	6.0%
<i>Nat'l Institutes of Health</i>	14,995	17,102	<b>18,094</b>	992	5.8%
NASA	9,717	9,777	<b>10,040</b>	263	2.7%
Energy	6,966	7,117	<b>7,639</b>	522	7.3%
Nat'l Science Foundation	2,670	2,863	<b>3,431</b>	568	19.8%
Agriculture	1,645	1,763	<b>1,824</b>	61	3.5%
Commerce	1,084	1,073	<b>1,148</b>	75	7.0%
<i>NOAA</i>	593	591	<b>594</b>	3	0.5%
<i>NIST</i>	465	458	<b>497</b>	39	8.6%
Interior	499	573	<b>590</b>	17	2.9%
Transportation	607	606	<b>778</b>	172	28.3%
Environ. Protection Agency	669	647	<b>673</b>	26	4.0%
Veterans Affairs	644	655	<b>655</b>	0	0.0%
Education	205	233	<b>271</b>	38	16.3%
Int'l Assistance Programs	189	142	<b>114</b>	-28	-19.7%
Smithsonian	105	113	<b>122</b>	9	8.0%
Tennessee Valley Auth.	34	33	<b>32</b>	-1	-3.0%
Labor	69	71	<b>42</b>	-29	-40.8%
Nuclear Reg. Comm.	49	53	<b>53</b>	0	0.0%
Corps of Engineers	50	53	<b>42</b>	-11	-20.8%
Housing and Urban Dev.	58	45	<b>62</b>	17	37.8%
Justice	88	77	<b>74</b>	-3	-3.9%
Social Security	38	25	<b>42</b>	17	68.0%
Postal Service	67	45	<b>45</b>	0	0.0%
State	1	0	<b>0</b>	0	- -
Treasury	3	6	<b>6</b>	0	0.0%
Marine Mammal Com.	1	1	<b>1</b>	0	0.0%
<b>Total R&amp;D</b>	80,171	83,334	<b>85,427</b>	2,093	2.5%
Defense R&D	42,085	42,583	<b>41,981</b>	-602	-1.4%
Nondefense R&D	38,086	40,751	<b>43,446</b>	2,695	6.6%
"FS&T" <sup>1</sup>	48,151	51,975	<b>53,702</b>	1,727	3.3%

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Table II-1. R&D in the FY 2001 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2001 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01	
				Amount	Percent
<b>BASIC RESEARCH</b>					
<b>(Please see Chapter 4 for a discussion of these data)</b>					
Defense (military)	1,064	1,161	<b>1,217</b>	56	4.9%
Health and Human Services	8,634	9,834	<b>10,399</b>	565	5.7%
<i>Nat'l Institutes of Health</i>	<i>8,632</i>	<i>9,832</i>	<i>10,397</i>	<i>565</i>	<i>5.8%</i>
NASA	1,981	1,947	<b>1,895</b>	-52	-2.7%
Energy	2,225	2,237	<b>2,376</b>	139	6.2%
Nat'l Science Foundation	2,321	2,492	<b>2,987</b>	495	19.9%
Agriculture	634	692	<b>740</b>	48	6.9%
Commerce	41	41	<b>53</b>	13	31.1%
NOAA	0	0	0	0	- -
NIST	41	41	<b>53</b>	13	31.1%
Interior	50	61	<b>63</b>	2	3.7%
Transportation	44	46	<b>69</b>	23	50.0%
Environ. Protection Agency	57	58	<b>58</b>	0	-0.7%
Veterans Affairs	263	268	<b>268</b>	0	0.0%
Education	2	2	<b>2</b>	0	0.0%
Smithsonian	95	102	<b>108</b>	6	5.9%
Labor	2	2	<b>2</b>	0	0.0%
Corps of Engineers	3	3	<b>3</b>	0	0.0%
Justice	18	21	<b>19</b>	-2	-9.5%
<b>Total BASIC RESEARCH</b>	<b>17,433</b>	<b>18,965</b>	<b>20,259</b>	<b>1,294</b>	<b>6.8%</b>
Defense	1,110	1,205	<b>1,262</b>	57	4.7%
Nondefense	16,323	17,760	<b>18,997</b>	1,237	7.0%

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Table II-1. R&D in the FY 2001 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2001 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
<b>APPLIED RESEARCH</b>					
<b>(Please see Chapter 4 for a discussion of these data)</b>					
Defense (military-incl. medical)	3,095	3,680	<b>3,210</b>	-470	-12.8%
Health and Human Services	5,036	5,775	<b>6,123</b>	348	6.0%
<i>Nat'l Institutes of Health</i>	<i>4,245</i>	<i>4,856</i>	<i><b>5,116</b></i>	260	5.4%
NASA	2,305	2,386	<b>2,819</b>	433	18.2%
Energy	1,799	1,908	<b>2,141</b>	233	12.2%
Nat'l Science Foundation	144	164	<b>193</b>	29	17.6%
Agriculture	743	807	<b>821</b>	14	1.7%
Commerce	810	780	<b>842</b>	62	7.9%
NOAA	536	534	<b>535</b>	1	0.2%
NIST	268	240	<b>297</b>	57	23.6%
Interior	418	482	<b>487</b>	4	0.9%
Transportation	381	398	<b>512</b>	114	28.8%
Environ. Protection Agency	400	387	<b>382</b>	-5	-1.3%
Veterans Affairs	365	370	<b>370</b>	0	0.0%
Education	141	150	<b>165</b>	15	10.0%
Int'l Assistance Programs	141	103	<b>83</b>	-20	-19.4%
Smithsonian	0	0	<b>0</b>	0	- -
Tennessee Valley Auth.	3	3	<b>3</b>	0	0.0%
Labor	7	7	<b>8</b>	1	14.3%
Nuclear Reg. Comm.	49	53	<b>53</b>	0	0.0%
Corps of Engineers	18	20	<b>14</b>	-6	-30.0%
Housing and Urban Dev.	58	45	<b>62</b>	17	37.8%
Justice	36	27	<b>18</b>	-9	-33.3%
Social Security	38	25	<b>42</b>	17	68.0%
State	1	0	<b>0</b>	0	- -
Treasury	3	6	<b>6</b>	0	0.0%
Marine Mammal Com.	1	1	<b>1</b>	0	0.0%
<b>Total APPLIED RESEARCH</b>	<b>15,992</b>	<b>17,577</b>	<b>18,355</b>	<b>777</b>	<b>4.4%</b>
Defense	4,394	5,087	<b>4,853</b>	-234	-4.6%
Nondefense	11,597	12,490	<b>13,501</b>	1,011	8.1%

(continued)

Table II-1. R&D in the FY 2001 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2001 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
<b>Total RESEARCH (basic + applied)</b>					
<b>(Please see Chapter 4 for a discussion of these data)</b>					
Defense (military)	4,159	4,841	<b>4,428</b>	-414	-8.5%
Health and Human Services	13,670	15,608	<b>16,522</b>	913	5.9%
<i>Nat'l Institutes of Health</i>	<i>12,877</i>	<i>14,687</i>	<i><b>15,513</b></i>	825	5.6%
NASA	4,286	4,332	<b>4,713</b>	381	8.8%
Energy	4,024	4,145	<b>4,517</b>	372	9.0%
Nat'l Science Foundation	2,465	2,656	<b>3,180</b>	524	19.7%
Agriculture	1,377	1,499	<b>1,561</b>	62	4.1%
Commerce	850	821	<b>895</b>	74	9.1%
NOAA	536	534	<b>535</b>	1	0.2%
NIST	308	281	<b>350</b>	69	24.7%
Interior	468	543	<b>550</b>	7	1.2%
Transportation	425	444	<b>581</b>	137	31.0%
Environ. Protection Agency	457	445	<b>440</b>	-5	-1.2%
Veterans Affairs	628	638	<b>638</b>	0	0.0%
Education	143	152	<b>167</b>	15	9.9%
Int'l Assistance Programs	141	103	<b>83</b>	-20	-19.4%
Smithsonian	95	102	<b>108</b>	6	5.9%
Tennessee Valley Auth.	3	3	<b>3</b>	0	0.0%
Labor	9	9	<b>10</b>	1	11.1%
Nuclear Reg. Comm.	49	53	<b>53</b>	0	0.0%
Corps of Engineers	21	23	<b>17</b>	-6	-26.1%
Housing and Urban Dev.	58	45	<b>62</b>	17	37.8%
Justice	54	48	<b>37</b>	-11	-22.9%
Social Security	38	25	<b>42</b>	17	68.0%
State	1	0	<b>0</b>	0	- -
Treasury	3	6	<b>6</b>	0	0.0%
Marine Mammal Com.	1	1	<b>1</b>	0	0.0%
<b>Total RESEARCH</b>	<b>33,425</b>	<b>36,542</b>	<b>38,613</b>	2,071	5.7%
Defense	5,504	6,292	<b>6,115</b>	-177	-2.8%
Nondefense	27,921	30,251	<b>32,498</b>	2,248	7.4%

(continued)

Table II-1. R&D in the FY 2001 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2001 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
<b>DEVELOPMENT</b>					
Defense (military)	34,448	34,193	<b>33,892</b>	-300	-0.9%
<i>S&amp;T (6.3 Development)</i>	3,453	3,826	<b>3,182</b>	-644	-16.8%
<i>All Other DOD Develop.</i>	30,995	30,367	<b>30,711</b>	344	1.1%
Health and Human Services	1,917	2,224	<b>2,413</b>	189	8.5%
<i>Nat'l Institutes of Health</i>	1,888	2,173	<b>2,357</b>	184	8.5%
NASA	5,092	5,092	<b>4,920</b>	-172	-3.4%
Energy	1,988	2,069	<b>2,180</b>	111	5.4%
Nat'l Science Foundation	0	0	<b>0</b>	0	--
Agriculture	109	109	<b>118</b>	9	8.3%
Commerce	141	109	<b>179</b>	70	64.2%
NOAA	22	22	<b>22</b>	0	0.0%
NIST	100	70	<b>111</b>	41	58.5%
Interior	25	24	<b>34</b>	10	41.8%
Transportation	167	149	<b>182</b>	33	21.9%
Environ. Protection Agency	96	92	<b>91</b>	-1	-0.9%
Veterans Affairs	16	17	<b>17</b>	0	0.0%
Education	62	81	<b>104</b>	23	28.4%
Int'l Assistance Programs	48	39	<b>31</b>	-8	-20.5%
Smithsonian	0	0	<b>0</b>	0	--
Tennessee Valley Auth.	31	30	<b>29</b>	-1	-3.3%
Labor	60	62	<b>32</b>	-30	-48.4%
Corps of Engineers	19	20	<b>15</b>	-5	-25.0%
Justice	34	29	<b>37</b>	8	27.6%
Postal Service	67	45	<b>45</b>	0	0.0%
<b>Total Development</b>	<b>44,321</b>	<b>44,383</b>	<b>44,318</b>	<b>-65</b>	<b>-0.1%</b>
Defense	35,802	35,554	<b>35,299</b>	-255	-0.7%
Nondefense	8,519	8,829	<b>9,020</b>	190	2.2%

(continued)

Table II-1. R&amp;D in the FY 2001 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2001 Budget by Agency and Character of Work  
(budget authority in millions of dollars)

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
<b>Total CONDUCT OF R&amp;D (basic + applied research, development)</b>					
Defense (military)	38,607	39,034	<b>38,320</b>	-714	-1.8%
<i>S&amp;T (6.1-6.3 + medical)</i>	7,612	8,667	<b>7,609</b>	-1,058	-12.2%
<i>All Other DOD Conduct</i>	30,995	30,367	<b>30,711</b>	344	1.1%
Health and Human Services	15,587	17,832	<b>18,934</b>	1,102	6.2%
<i>Nat'l Institutes of Health</i>	14,765	16,860	<b>17,869</b>	1,009	6.0%
NASA	9,378	9,424	<b>9,633</b>	209	2.2%
Energy	6,012	6,214	<b>6,697</b>	483	7.8%
Nat'l Science Foundation	2,465	2,656	<b>3,180</b>	524	19.7%
Agriculture	1,486	1,608	<b>1,679</b>	71	4.4%
Commerce	991	930	<b>1,074</b>	144	15.5%
<i>NOAA</i>	558	556	<b>557</b>	1	0.2%
<i>NIST</i>	408	351	<b>461</b>	110	31.4%
Interior	493	567	<b>584</b>	17	2.9%
Transportation	592	593	<b>763</b>	170	28.7%
Environ. Protection Agency	553	537	<b>531</b>	-6	-1.2%
Veterans Affairs	644	655	<b>655</b>	0	0.0%
Education	205	233	<b>271</b>	38	16.3%
Int'l Assistance Programs	189	142	<b>114</b>	-28	-19.7%
Smithsonian	95	102	<b>108</b>	6	5.9%
Tennessee Valley Auth.	34	33	<b>32</b>	-1	-3.0%
Labor	69	71	<b>42</b>	-29	-40.8%
Nuclear Reg. Comm.	49	53	<b>53</b>	0	0.0%
Corps of Engineers	40	43	<b>32</b>	-11	-25.6%
Housing and Urban Dev.	58	45	<b>62</b>	17	37.8%
Justice	88	77	<b>74</b>	-3	-3.9%
Social Security	38	25	<b>42</b>	17	68.0%
Postal Service	67	45	<b>45</b>	0	0.0%
State	1	0	<b>0</b>	0	--
Treasury	3	6	<b>6</b>	0	0.0%
Marine Mammal Com.	1	1	<b>1</b>	0	0.0%
<b>Total Conduct of R&amp;D</b>	<b>77,745</b>	<b>80,925</b>	<b>82,931</b>	2,006	2.5%
Defense	41,306	41,846	<b>41,414</b>	-432	-1.0%
Nondefense	36,440	39,080	<b>41,518</b>	2,438	6.2%

(continued)

Table II-1. R&D in the FY 2001 Budget by Agency and Character of Work

**Table II-1 (continued).** R&D in the FY 2001 Budget by Agency and Character of Work (budget authority in millions of dollars)

	FY 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01	
				Amount	Percent
<b>R&amp;D Facilities and Capital Equipment</b>					
Defense (military)	281	248	<b>256</b>	8	3.2%
Health and Human Services	238	249	<b>233</b>	-16	-6.4%
<i>Nat'l Institutes of Health</i>	230	241	<b>224</b>	-17	-7.0%
NASA	339	352	<b>407</b>	55	15.5%
Energy	954	903	<b>942</b>	39	4.4%
Nat'l Science Foundation	205	208	<b>251</b>	43	20.8%
Agriculture	159	155	<b>145</b>	-10	-6.5%
Commerce	93	143	<b>74</b>	-69	-48.3%
NOAA	35	35	<b>37</b>	2	5.7%
NIST	57	107	<b>36</b>	-71	-66.4%
Interior	6	6	<b>6</b>	0	0.0%
Transportation	15	14	<b>15</b>	2	12.8%
Environ. Protection Agency	116	110	<b>142</b>	32	29.1%
Education	0	0	<b>0</b>	0	- -
Corps of Engineers	10	10	<b>10</b>	0	0.0%
Smithsonian	10	11	<b>14</b>	3	27.3%
<b>Total R&amp;D Facils.</b>	2,426	2,409	<b>2,496</b>	87	3.6%
Defense	780	737	<b>567</b>	-170	-23.1%
Nondefense	1,646	1,671	<b>1,928</b>	257	15.4%

Source: AAAS, based on OMB data for R&D for FY 2001, agency budget justifications, and information from agency budget offices.

Note: The projected inflation rate between FY 2000 and FY 2001 is 2.0 percent.

See individual agency tables for more information.

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

<sup>1</sup> An alternative measure for the federal investment in science and technology proposed by the National Academy of Sciences. This measure includes all federal R&D except for advanced development, testing and evaluation work in DOD and DOE.

See Chapter 7.

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 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01	
				Amount	Percent
<b>Research, Development, Test, and Evaluation (RDT&amp;E)</b>					
Basic Research ("6.1")	1,064	1,161	<b>1,217</b>	56	4.9%
Applied Research ("6.2")	3,057	3,410	<b>3,144</b>	-266	-7.8%
Total Research	4,121	4,571	<b>4,362</b>	-210	-4.6%
Adv. Tech. Development ("6.3")	3,453	3,826	<b>3,182</b>	-644	-16.8%
Total Science & Technology <sup>1</sup>	7,574	8,397	<b>7,543</b>	-854	-10.2%
Demons. and Valid. ("6.4")	7,364	6,524	<b>6,810</b>	285	4.4%
Eng. & Manufacturing Dev. ("6.5")	7,646	8,679	<b>8,661</b>	-18	-0.2%
Management Support ("6.6")	3,553	2,552	<b>2,434</b>	-118	-4.6%
Operational Sys. Dev. ("6.7")	11,967	12,137	<b>12,415</b>	278	2.3%
BA Adjustment	186	68	<b>1</b>	-67	-99.1%
Total RDT&E	38,290	38,357	<b>37,863</b>	-494	-1.3%
Medical Research <sup>2</sup>	38	270	<b>66</b>	-204	-75.6%
Other Appropriations <sup>3</sup>	560	655	<b>647</b>	-8	-1.2%
<b>Total DOD R&amp;D</b>	38,888	39,282	<b>38,576</b>	-706	-1.8%
Total Conduct of R&D	38,607	39,034	<b>38,320</b>	-714	-1.8%
Total R&D Facilities & Equip.	281	248	<b>256</b>	8	3.2%

Source: OMB data for R&D for FY 2001, *Budget of the United States Government FY 2001*, and DOD "RDT&E Programs" (R-1).

<sup>1</sup> This represents most of DOD's contribution to the "FS&T" budget (see Chapter 7).  
DOD FS&T also includes Medical Research.

<sup>2</sup> Medical research appropriated in Defense Health Programs, not RDT&E.  
These funds are not included in "6.2" (applied research).

<sup>3</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 8 for a discussion of DOD R&D.**

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

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

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
<b>Research, Development, Test, and Evaluation (RDT&amp;E)</b>					
Army	5,054	5,200	<b>5,260</b>	60	1.2%
Navy	8,977	9,001	<b>8,477</b>	-524	-5.8%
Air Force	13,807	14,487	<b>13,686</b>	-801	-5.5%
Defense Agencies	10,146	9,373	<b>10,238</b>	865	9.2%
<i>Ballistic Missile Defense Org.</i>	3,910	3,428	<b>3,943</b>	515	15.0%
<i>Def. Adv. Res. Projects Agency</i>	1,888	1,876	<b>1,951</b>	75	4.0%
<i>Secretary of Defense</i>	1,088	1,180	<b>1,192</b>	12	1.0%
<i>Classified Agencies</i> <sup>1</sup>	1,890	1,672	<b>1,808</b>	136	8.1%
<i>Other</i> <sup>2</sup>	1,371	1,217	<b>1,343</b>	126	10.4%
Director of Test and Evaluation	259	265	<b>0</b>	-265	-100.0%
Director of Operational Test & Eval	47	31	<b>202</b>	171	551.6%
Total RDT&E	38,290	38,357	<b>37,863</b>	-494	-1.3%
Medical Research <sup>3</sup>	38	270	<b>66</b>	-204	-75.6%
Other Appropriations <sup>4</sup>	560	655	<b>647</b>	-8	-1.2%
<b>Total DOD R&amp;D</b>	38,888	39,282	<b>38,576</b>	-706	-1.8%

Source: OMB data for R&D, *Budget of the U.S. Government FY 2001*, and the R-1.<sup>1</sup> Includes National Security Agency, National Imagery & Mapping, and Defense Intelligence.<sup>2</sup> Includes Special Operations Command, Defense Information Systems, and BA adjustment.<sup>3</sup> Medical research appropriated in Defense Health Programs, not RDT&E.<sup>4</sup> R&D support in military personnel, O&M, and other appropriations.**DOD Military Budget (in BILLIONS of dollars discretionary budget authority)**

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
RDT&E (see above)	38.3	38.4	<b>37.9</b>	-0.5	-1.3%
Military Personnel	70.6	73.7	<b>75.8</b>	2.1	2.9%
Operations and Maintenance	104.8	104.6	<b>109.1</b>	4.4	4.2%
Procurement	50.9	54.2	<b>60.3</b>	6.1	11.2%
Military Construction	5.4	4.8	<b>4.5</b>	-0.2	-5.1%
Family Housing	3.6	3.6	<b>3.5</b>	-0.1	-3.1%
Revolving and Management Funds	0.9	1.6	<b>1.1</b>	-0.5	-30.0%
Allowances, Offsets, Other	0.0	0.0	<b>0.0</b>	0.0	--
<b>Total DOD Discret. Budget</b>	274.6	280.9	<b>292.2</b>	11.3	4.0%

DOD military budget only (excludes civilian activities of the Corps of Engineers).

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

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

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

	FY 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01 Amount	Percent
<b>Current Dollars</b>					
Basic Research	1,064	1,161	<b>1,217</b>	56	4.9%
Applied Research <sup>1</sup>	3,095	3,680	<b>3,210</b>	-470	-12.8%
Total Research	4,159	4,841	<b>4,428</b>	-414	-8.5%
Development	34,448	34,193	<b>33,892</b>	-300	-0.9%
Total Conduct of R&D	38,607	39,034	<b>38,320</b>	-714	-1.8%
R&D Facilities <sup>2</sup>	281	248	<b>256</b>	8	3.2%
<b>Total DOD R&amp;D</b>	38,888	39,282	<b>38,576</b>	-706	-1.8%
<b>Constant FY 2000 Dollars</b>					
Basic Research	1,079	1,161	<b>1,194</b>	33	2.8%
Applied Research <sup>1</sup>	3,142	3,680	<b>3,147</b>	-533	-14.5%
Total Research	4,221	4,841	<b>4,341</b>	-501	-10.3%
Development	34,963	34,193	<b>33,227</b>	-965	-2.8%
Total Conduct of R&D	39,184	39,034	<b>37,568</b>	-1,466	-3.8%
R&D Facilities <sup>1</sup>	285	248	<b>251</b>	3	1.2%
<b>Total DOD R&amp;D</b>	39,469	39,282	<b>37,819</b>	-1,463	-3.7%

Source: OMB data for R&D for FY 2001, *Budget of the United States Government FY 2001*, and DOD "RDT&E Programs" (R-1).

<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 8 for a discussion of DOD R&D.**

Table II-5. DOD Funding for Basic Research ("6.1")

**Table II-5.** Department of Defense Funding for Basic Research ("6.1")  
(budget authority in millions of dollars)

	FY 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01	
				Amount	Percent
<b>Army</b>					
In-House Indep. Research	12	14	<b>14</b>	0	2.4%
Defense Research Sciences	122	126	<b>132</b>	6	5.0%
Univ. & Indus. Research Ctrs.	42	64	<b>54</b>	-10	-15.5%
Total Army	177	204	<b>201</b>	-3	-1.7%
<b>Navy</b>					
In-House Indep. Research	15	16	<b>16</b>	1	5.1%
Defense Research Sciences	339	359	<b>381</b>	22	6.2%
Total Navy	354	374	<b>397</b>	23	6.2%
<b>Air Force</b>					
Defense Research Sciences	198	214	<b>206</b>	-8	-3.6%
Total Air Force	198	214	<b>206</b>	-8	-3.6%
<b>Defense Agencies</b>					
In-House Indep. Research	2	2	<b>2</b>	0	-1.1%
Defense Research Sciences	57	68	<b>90</b>	23	33.7%
Univ. Research Initiatives*	220	224	<b>263</b>	39	17.6%
Gov't / Industry University Res.	4	6	<b>7</b>	1	8.7%
Gulf War Illness	23	25	<b>17</b>	-8	-30.8%
Chem. and Bio. Defense	29	44	<b>33</b>	-11	-24.6%
Total Defense Agencies	335	368	<b>413</b>	44	12.0%
<b>Total DOD</b>					
In-House Indep. Research	29	32	<b>33</b>	1	3.5%
Defense Research Sciences	717	766	<b>810</b>	44	5.7%
Univ. Research Initiatives *	220	224	<b>263</b>	39	17.6%
Gov't / Industry University Res.	4	6	<b>7</b>	1	8.7%
Chem. and Bio. Defense	29	44	<b>33</b>	-11	-24.6%
Univ. & Indus. Research Ctrs.	42	64	<b>54</b>	-10	-15.5%
Gulf War Illness	23	25	<b>17</b>	-8	-30.8%
<b>Total DOD Basic Research</b>	1,064	1,161	<b>1,217</b>	56	4.9%

Source: OMB data for R&D for FY 2001, *Budget of the United States Government FY 2001*, and DOD "RDT&E Programs" (R-1).

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

\* - FY 2001 includes separate line item for DEPSCoR program.

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

Table II-6. DOD R&D Trends, FY 1965-2001

**Table II-6.** Trends in Department of Defense R&D, FY 1965 - FY 2001  
(budget authority in millions of dollars)

Fiscal Year	Basic Research <sup>1</sup>		Total DOD R&D	
	Current Dollars	Constant FY 2000 \$	Current Dollars	Constant FY 2000 \$
1965	347	1,541	6,865	30,484
1970	323	1,192	7,491	27,642
1975	305	829	9,167	24,904
1980	552	1,038	14,150	26,607
1981	615	1,055	16,772	28,768
1982	697	1,119	20,866	33,501
1983	787	1,209	23,233	35,699
1984	843	1,249	26,940	39,901
1985	851	1,221	31,632	45,378
1986	954	1,337	35,000	49,041
1987	894	1,220	37,136	50,692
1988	897	1,186	38,126	50,419
1989	951	1,211	38,578	49,115
1990	931	1,142	37,869	46,448
1991	1,155	1,366	37,209	44,012
1992	1,140	1,318	37,779	43,677
1993	1,312	1,479	38,848	43,804
1994	1,179	1,299	35,510	39,139
1995	1,175	1,268	35,349	38,156
1996	1,098	1,163	35,783	37,894
1997	1,032	1,075	37,238	38,776
1998	1,012	1,040	37,569	38,627
1999	1,064	1,079	38,888	39,469
2000 (estimate)	1,161	1,161	39,282	39,282
2001 (budget)	1,217	1,194	38,576	37,819

Source: National Science Foundation historical reports, the R-1, and OMB data on R&D for FY 2001. Constant dollar conversions based on OMB's GDP deflators.

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

**Please see Chapter 8 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 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
<b>1. Research and Related Activities (R&amp;RA)</b>					
Mathematical and Physical Sciences (MPS)					
Mathematical Sciences	101	106	<b>130</b>	24	22.5%
Astronomical Sciences	119	123	<b>140</b>	17	13.7%
Physics	163	168	<b>199</b>	30	18.0%
Chemistry	135	139	<b>162</b>	23	16.5%
Materials Research	186	191	<b>221</b>	29	15.4%
Multidisciplinary Activities	30	30	<b>30</b>	0	0.2%
Total MPS	734	758	<b>881</b>	124	16.3%
Engineering (ENG)					
Bioengineering & Env. Sys.	32	34	<b>42</b>	8	22.7%
Chemical & Transport Systems Design, Manufacture, & Industrial Innovation	42	44	<b>54</b>	10	22.7%
Electrical & Commun. Sys.	104	109	<b>133</b>	24	22.2%
Engineering Edu. & Centers	43	45	<b>59</b>	14	29.8%
Civil & Mechanical Systems	101	101	<b>112</b>	11	11.0%
Total ENG	48	48	<b>56</b>	8	16.5%
Total ENG	370	382	<b>457</b>	75	19.6%
Biological Sciences (BIO)					
Molecular and Cellular Bioscis.	101	105	<b>133</b>	28	26.5%
Integrative Biology & Neurosci.	91	95	<b>120</b>	25	26.5%
Environmental Biology	86	90	<b>119</b>	29	32.7%
Biological Infrastructure	64	65	<b>79</b>	14	22.1%
Plant Genome Research	50	60	<b>60</b>	0	0.0%
Total BIO	392	414	<b>511</b>	97	23.3%
Geosciences (GEO)					
Atmospheric Sciences	165	165	<b>194</b>	29	17.7%
Earth Sciences	99	102	<b>119</b>	17	16.6%
Ocean Sciences	214	221	<b>270</b>	49	22.2%
Total GEO	478	488	<b>583</b>	95	19.5%
Computer and Information Science and Engineering (CISE)					
Computer-Communications Res	60	60	<b>69</b>	9	15.0%
Information and Intelligent Sys.	41	42	<b>54</b>	12	29.0%
Experimental and Integrative Activities	58	58	<b>63</b>	6	9.9%
(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 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
Adv. Networking Infra. and Res.	61	61	<b>69</b>	8	12.9%
Adv. Compu. Infra. and Res.	78	78	<b>84</b>	6	7.7%
Information Tech. Research	0	90	<b>190</b>	100	111.1%
Total CISE	299	388	<b>529</b>	141	36.2%
Social, Behavioral, and Economic Sciences (SBE)					
Social & Economic Scis.	60	61	<b>72</b>	11	18.0%
Behavioral & Cognitive Scis.	40	45	<b>59</b>	14	30.7%
Int'l. Coop. Sci. Activities	27	25	<b>27</b>	2	8.3%
Science Resources Studies	14	15	<b>17</b>	2	13.7%
Total SBE	142	146	<b>175</b>	29	19.8%
US Polar Programs					
Polar Research Programs	183	190	<b>223</b>	32	17.0%
Antarctic Logistical Support	63	63	<b>63</b>	0	0.0%
Total Polar Programs	246	253	<b>285</b>	32	12.8%
Integrative Activities	162	129	<b>119</b>	-10	-7.7%
BA Adjustment *	-48	0	<b>0</b>	0	--
<b>Total R&amp;RA *</b>	<b>2,774</b>	<b>2,958</b>	<b>3,541</b>	<b>582</b>	<b>19.7%</b>
2. Major Research Equipment	90	94	<b>139</b>	45	48.2%
3. Education & Human Resources (EHR)					
Educational System Reform	113	113	<b>110</b>	-4	-3.4%
Elem., Secondary, & Informal	183	184	<b>192</b>	7	3.9%
Undergraduate Education	104	116	<b>141</b>	24	20.8%
Graduate Education	80	78	<b>89</b>	11	14.4%
Human Resource Develop. Research, Eval. and Communication	73	77	<b>82</b>	5	6.0%
EPSCoR <sup>1</sup>	61	61	<b>68</b>	6	10.1%
BA Adjustment *	49	60	<b>48</b>	-11	-19.2%
BA Adjustment *	0	0	<b>0</b>	0	--
Total EHR	662	691	<b>729</b>	38	5.5%

(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 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
4. Salaries and Expenses	144	149	<b>158</b>	9	6.0%
5. Inspector General	5	5	<b>6</b>	1	15.2%
Total NSF Budget *	3,675	3,897	<b>4,572</b>	675	17.3%
<b>Deduct non-R&amp;D Activities:</b>					
R&RA non-R&D	285	309	<b>358</b>	49	15.8%
EHR non-R&D	571	570	<b>619</b>	49	8.6%
Salaries and Expenses	144	149	<b>158</b>	9	6.0%
Inspector General	5	5	<b>6</b>	1	15.2%
<b>Total NSF R&amp;D</b>	2,670	2,863	<b>3,431</b>	568	19.8%
Conduct of R&D	2,465	2,656	<b>3,180</b>	524	19.7%
R&D Facilities	205	208	<b>251</b>	43	20.8%

Source: Agency budget justification and Quantitative Data Tables.

\* - Directorate detailed figures are in obligations. BA adjustment converts obligations to budget authority. R&RA figures include funding derived from the Intellectual Infrastructure fund in FY 1999.

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

<sup>1</sup> Experimental Program to Stimulate Competitive Research. FY 2000 includes \$8.4 million for Innovation Partnership Activities.

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

**Please see Chapter 9 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 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01 Amount	Percent
<b>Health</b>					
National Institutes of Health	14,995	17,102	<b>18,094</b>	992	5.8%
Centers for Disease Control	433	477	<b>518</b>	41	8.6%
Food and Drug Administration	130	135	<b>146</b>	11	8.1%
Health Care Financing Admin.	49	61	<b>55</b>	-6	-9.8%
Health Resources & Svcs. Admin.	14	15	<b>15</b>	0	0.0%
Departmental Management	25	50	<b>50</b>	0	0.0%
Healthcare Research and Quality <sup>1</sup>	141	168	<b>209</b>	41	24.4%
<b>Total Health R&amp;D</b>	<b>15,787</b>	<b>18,008</b>	<b>19,087</b>	1,079	6.0%
<b>Human Services</b>					
Admin. For Children and Families	20	41	<b>43</b>	2	4.9%
Office of Aging	18	33	<b>38</b>	5	15.2%
<b>Total Human Services R&amp;D</b>	<b>38</b>	<b>74</b>	<b>81</b>	7	9.5%
<b>Total HHS R&amp;D</b>	<b>15,825</b>	<b>18,082</b>	<b>19,168</b>	1,086	6.0%
<b>Dept. of Health and Human Services Budget</b> (includes R&D components above)					
Food and Drug Administration	981	1,050	<b>1,189</b>	139	13.2%
Health Resources & Svcs. Admin.	4,355	4,781	<b>5,069</b>	288	6.0%
Indian Health Services	2,275	2,426	<b>2,655</b>	229	9.4%
Centers for Disease Control	2,611	2,968	<b>3,244</b>	276	9.3%
National Institutes of Health	15,647	17,833	<b>18,853</b>	1,020	5.7%
Substance Abuse & Mental Health	2,487	2,652	<b>2,823</b>	171	6.4%
Medicaid	102,395	115,000	<b>124,910</b>	9,910	8.6%
Medicare <sup>2</sup>	190,625	206,304	<b>220,204</b>	13,900	6.7%
Admin. for Children and Families	38,559	36,361	<b>42,914</b>	6,553	18.0%
Admin. on Aging	882	933	<b>1,084</b>	151	16.2%
Other <sup>3</sup>	4,480	4,519	<b>4,525</b>	6	0.1%
<b>Total HHS Budget</b>	<b>365,297</b>	<b>394,827</b>	<b>427,470</b>	32,643	8.3%

Source: *Budget of the United States Government FY 2001*, OMB R&D data for FY 2001 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.

**Please see Chapter 10 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 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
Cancer	2,892	3,312	<b>3,505</b>	193	5.8%
Heart, Lung and Blood	1,775	2,026	<b>2,137</b>	110	5.4%
Dental & Cranofacial Research	238	269	<b>284</b>	15	5.6%
Diabetes & Digestive & Kidney Dis.	1,021	1,141	<b>1,209</b>	68	5.9%
Neurological Disorders and Stroke	897	1,030	<b>1,085</b>	55	5.3%
Allergy and Infectious Diseases	1,571	1,797	<b>1,906</b>	110	6.1%
General Medical Sciences	1,203	1,354	<b>1,428</b>	74	5.5%
Child Health & Human Dev.	752	859	<b>905</b>	45	5.3%
Eye	396	450	<b>474</b>	24	5.3%
Environmental Health Sciences	388	443	<b>469</b>	26	5.9%
Aging	600	688	<b>726</b>	38	5.5%
Arthritis & Musculoskeletal & Skin	306	349	<b>369</b>	19	5.5%
Deafness & Commun. Disorders	231	264	<b>278</b>	14	5.4%
Mental Health	854	975	<b>1,031</b>	57	5.8%
Drug Abuse	617	687	<b>725</b>	38	5.5%
Alcohol Abuse and Alcoholism	259	293	<b>309</b>	15	5.3%
Nursing Research	70	90	<b>93</b>	3	3.3%
Research Resources	561	675	<b>714</b>	39	5.8%
Human Genome Research	284	336	<b>358</b>	22	6.5%
Complementary & Alternative Med.	51	69	<b>72</b>	3	4.9%
Fogarty International Center	35	43	<b>48</b>	5	10.8%
National Library of Medicine	182	215	<b>230</b>	15	6.9%
Office of the Director	256	282	<b>309</b>	27	9.6%
Office of AIDS Research <sup>1</sup>	[1,793]	[2,006]	<b>[2,111]</b>	[105]	[5.2%]
Buildings and Facilities <sup>2</sup>	197	165	<b>149</b>	-16	-10.0%
<b>Total NIH Budget</b>	<b>15,633</b>	<b>17,813</b>	<b>18,813</b>	1,000	5.6%
<i>minus Est. Research Training</i>	<i>509</i>	<i>550</i>	<b><i>564</i></b>	<i>14</i>	<i>2.5%</i>
<i>minus Other Non-R&amp;D</i>	<i>128</i>	<i>161</i>	<b><i>155</i></b>	<i>-6</i>	<i>-3.6%</i>
<b>Total NIH R&amp;D</b>	<b>14,995</b>	<b>17,102</b>	<b>18,094</b>	992	5.8%

Source: OMB data for R&D for FY 2001 and NIH budget office documents.

<sup>1</sup> The FY 2001 budget consolidates NIH-wide AIDS research into the Office of AIDS Research (\$2.1 bil.). FY 2001 figures adjusted for comparability with previous years.

<sup>2</sup> FY 2000 includes advance appropriation of \$40 million. FY 2001 does not include \$26 million advance appropriation requested for FY 2002.

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

**Please see Chapter 10 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 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
Research Project Grants <sup>2</sup>	8,503	9,741	<b>10,333</b>	591	6.1%
{# of Non-Competing}	20,163	22,337	<b>23,883</b>	1,546	6.9%
{# of New / Competing}	8,565	8,950	<b>7,641</b>	-1,309	-14.6%
{Total # of Grants}	28,728	31,287	<b>31,524</b>	237	0.8%
SBIR / STTR Grants <sup>3</sup>	315	362	<b>381</b>	18	5.1%
Research Centers	1,385	1,561	<b>1,654</b>	94	6.0%
Other Research	809	1,031	<b>1,081</b>	51	4.9%
R&D Contracts	1,029	1,127	<b>1,224</b>	97	8.6%
Intramural Research	1,567	1,746	<b>1,823</b>	77	4.4%
Research Mngmt. & Support	541	591	<b>614</b>	23	3.8%
Research Training	509	550	<b>564</b>	14	2.5%
Library of Medicine	182	215	<b>230</b>	15	6.9%
Office of the Director	256	282	<b>309</b>	27	9.6%
Cancer Prevention and Control	306	365	<b>375</b>	11	2.9%
Buildings and Facilities	197	165	<b>149</b>	-16	-10.0%
Construction	33	76	<b>76</b>	-1	-0.7%
<b>Total NIH Budget</b>	<b>15,633</b>	<b>17,813</b>	<b>18,813</b>	<b>1,000</b>	<b>5.6%</b>

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

<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 10 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 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01 Amount	Percent
<b>Summary of DOE R&amp;D (see notes at end of table):</b>					
1. Energy Supply	359	364	<b>468</b>	104	28.4%
2. Science	2,672	2,638	<b>2,969</b>	332	12.6%
3. Fossil Energy	295	328	<b>293</b>	-35	-10.6%
4. Energy Conservation	381	431	<b>465</b>	33	7.8%
5. Atomic Energy Defense	3,197	3,301	<b>3,405</b>	104	3.1%
6. Clean Coal Technology <sup>1</sup>	0	0	<b>0</b>	0	--
7. Radioactive Waste Management	62	55	<b>40</b>	-15	-28.0%
<b>Total DOE R&amp;D</b>	<b>6,966</b>	<b>7,117</b>	<b>7,639</b>	<b>522</b>	<b>7.3%</b>
<b>Detail of DOE R&amp;D:</b>					
1. Energy Supply (does not include non-R&D components)					
Solar and Renewable Energy	286	272	<b>376</b>	103	38.0%
Nuclear Energy	73	92	<b>92</b>	0	0.2%
Total Energy Supply R&D	359	364	<b>468</b>	104	28.4%
2. Science (does not include non-R&D components) <sup>2</sup>					
High-Energy Physics	674	693	<b>704</b>	11	1.7%
- <i>Large Hadron Collider</i>	65	70	<b>70</b>	0	0.0%
Nuclear Physics	326	348	<b>364</b>	16	4.7%
Fusion Energy Sciences	216	245	<b>244</b>	-1	-0.2%
Basic Energy Sciences					
Materials Sciences	405	397	<b>456</b>	59	14.8%
Chemical Sciences	202	207	<b>223</b>	17	8.1%
Engineering & Geosciences	42	37	<b>41</b>	4	10.0%
Energy Biosciences	29	31	<b>34</b>	3	9.8%
Equipment & Construction	105	100	<b>262</b>	162	161.9%
- <i>Spallation Neutron Source</i> <sup>3</sup>	130	118	<b>281</b>	163	138.3%
Adjustment <sup>2</sup>	-4	0	<b>-8</b>	-8	--
Total BES	779	772	<b>1,008</b>	236	30.6%
Advanced Scientific Computing Research <sup>4</sup>					
Math., Info. and Compu. Sci.	135	119	<b>170</b>	51	42.5%
Laboratory Technology Res.	16	9	<b>12</b>	3	39.4%
Advanced Energy Projects	2	0	<b>0</b>	0	--
Adjustment <sup>2</sup>	-2	0	<b>0</b>	0	--
Total ASCR	152	128	<b>182</b>	54	42.3%

(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 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01	
				Amount	Percent
<b>Biological and Environmental Research</b>					
Life Sciences	173	171	<b>189</b>	18	10.7%
Environmental Processes	115	127	<b>132</b>	4	3.5%
Environmental Remediation	65	65	<b>64</b>	-1	-2.0%
Medical Apps./ Measurement	73	70	<b>59</b>	-12	-16.4%
Adjustment <sup>2</sup>	-4	0	<b>-1</b>	-1	--
Total BER	422	433	<b>444</b>	11	2.6%
<b>Energy Research Analyses</b>					
Small Bus. Innov. Research	1	1	<b>1</b>	0	0.9%
Multiprogram Lab Support	81	0	<b>0</b>	--	--
	20	19	<b>22</b>	3	15.5%
Total Science	2,672	2,638	<b>2,969</b>	332	12.6%
<b>3. Fossil Energy R&amp;D (does not include non-R&amp;D components)</b>					
Coal	207	212	<b>194</b>	-19	-8.8%
Petroleum	47	57	<b>53</b>	-5	-8.2%
Gas	26	32	<b>39</b>	7	22.7%
Cooperative R&D	7	7	<b>6</b>	-2	-21.0%
Other R&D programs	10	10	<b>10</b>	0	-2.5%
Adjustments <sup>2</sup>	-2	9	<b>-8</b>	-17	-183.1%
Total Fossil Energy R&D	295	328	<b>293</b>	-35	-10.6%
<b>4. Energy Conservation</b>					
	381	431	<b>465</b>	33	7.8%
<b>5. Atomic Energy Defense Activities (does not include non-R&amp;D components)</b>					
<b>National Nuclear Security Administration (NNSA) <sup>5</sup></b>					
<b>Weapons Activities</b>					
Stockpile R&D	205	236	<b>243</b>	7	3.1%
ASCI <sup>6</sup>	301	397	<b>477</b>	80	20.1%
Defense Appl. and Modeling	183	228	<b>249</b>	21	9.4%
ICF Ignition and High Yield	98	100	<b>121</b>	21	21.1%
Nat'l Ignition Facility Constr.	284	247	<b>74</b>	-173	-70.0%
Other construction	107	128	<b>125</b>	-3	-2.3%
All Other Weapons R&D	946	865	<b>983</b>	118	13.7%
Total Weapons Acts. R&D	2,123	2,201	<b>2,273</b>	72	3.3%

(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 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
Nonproliferation & Verification	200	183	<b>191</b>	8	4.3%
Naval Reactors	646	655	<b>656</b>	2	0.3%
Fissile Materials Disposition	63	63	<b>71</b>	9	13.7%
<b>Total NNSA R&amp;D</b> <sup>5</sup>	3,032	3,101	<b>3,191</b>	90	2.9%
Nuclear Safeguards & Security	22	27	<b>26</b>	-2	-5.5%
Environmental Management	138	167	<b>182</b>	15	9.2%
Intelligence	5	5	<b>5</b>	0	0.0%
Total Atomic Defense R&D	3,197	3,301	<b>3,405</b>	104	3.1%
6. Clean Coal Technology <sup>1</sup>	0	0	<b>0</b>	0	--
7. Radioactive Waste Management	62	55	<b>40</b>	-15	-28.0%
<b>Total DOE R&amp;D</b>	6,966	7,117	<b>7,639</b>	522	7.3%
Conduct of R&D	6,012	6,214	<b>6,697</b>	483	7.8%
R&D Facilities	954	903	<b>942</b>	39	4.4%
DOE "FS&T" <sup>7</sup>	6,222	6,372	<b>6,881</b>	509	8.0%
DOE R&D by Function:					
Defense	3,197	3,301	<b>3,405</b>	104	3.1%
General Science	2,672	2,638	<b>2,969</b>	332	12.6%
Energy	1,097	1,178	<b>1,265</b>	87	7.4%

Source: DOE budget justification and agency supporting documents.

<sup>1</sup> Does not reflect actual or proposed rescissions and deferrals of previously appropriated funds. True budget authority in this account is as follows: -\$40 million FY 1999; -\$146 million FY 2000; and proposed -\$155 million FY 2001 (net of a \$171 million advance appropriation and a \$326 million proposed deferral).

<sup>2</sup> Does not include program direction, waste management, and other non-R&D costs. Adjustments subtract non-R&D costs, and also subtract 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 semi-autonomous agency within DOE. FY 1999 and 2000 figures adjusted for comparability with new account structure.

<sup>6</sup> Accelerated Strategic Computing Initiative.

<sup>7</sup> DOE contribution to the "FS&T" budget. Please see Chapter 6.

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

**Please see Chapter 11 for a discussion of DOE R&D.**

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

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

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
DOE Defense Programs:					
National Nuclear Security Administration (NNSA):					
Weapons Activities	4,286	4,321	<b>4,594</b>	273	6.3%
Other Nuclear Security Acts.	1,645	1,375	<b>1,584</b>	209	15.2%
Total NNSA	5,931	5,696	<b>6,178</b>	481	8.5%
Defense Env. Restoration	4,322	4,466	<b>4,552</b>	86	1.9%
Defense Facilities Closure Projects	1,042	1,060	<b>1,082</b>	22	2.1%
EM Privatization	228	188	<b>515</b>	327	173.5%
Other Defense Activities	953	578	<b>599</b>	21	3.7%
Total DOE Defense	12,476	11,988	<b>12,926</b>	937	7.8%
Science	2,841	2,815	<b>3,151</b>	337	12.0%
Energy Supply	656	643	<b>765</b>	122	19.0%
Fossil Energy	377	404	<b>376</b>	-28	-7.0%
Energy Conservation	619	759	<b>851</b>	92	12.1%
Other Programs (net)	186	108	<b>267</b>	159	146.4%
Non-defense Environmental Mngmt	405	307	<b>286</b>	-21	-6.9%
Power Marketing Administrations	237	230	<b>200</b>	-31	-13.4%
Departmental Administration & IG	170	110	<b>118</b>	8	7.4%
<b>Total DOE Budget</b>	17,968	17,364	<b>18,938</b>	1,574	9.1%

Source: Department of Energy budget justification.

DOE appropriations only.

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

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

**Please see Chapter 11 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 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01	
				Amount	Percent
<b>Summary of R&amp;D by Appropriation:</b>					
1. Human Space Flight (HSF)					
International Space Station	2,300	2,323	<b>2,115</b>	-209	-9.0%
Other HSF R&D	23	10	<b>20</b>	10	93.7%
Total HSF R&D	2,322	2,333	<b>2,135</b>	-199	-8.5%
2. Science, Aeronautics and Technology (SAT)					
Space Science	2,119	2,193	<b>2,399</b>	206	9.4%
Life & Microgravity Sciences	264	275	<b>302</b>	28	10.1%
Earth Science	1,414	1,443	<b>1,406</b>	-38	-2.6%
Aero-Space Technology	1,339	1,125	<b>1,193</b>	68	6.1%
Mission Communications Svcs.	380	406	<b>529</b>	123	30.3%
Academic Programs	139	139	<b>100</b>	-39	-28.0%
Total SAT R&D	5,654	5,581	<b>5,929</b>	349	6.2%
3. Mission Support R&D	1,741	1,862	<b>1,976</b>	114	6.1%
<b>Total NASA R&amp;D</b>	9,717	9,777	<b>10,040</b>	263	2.7%
<i>Conduct of R&amp;D</i>	9,378	9,424	<b>9,633</b>	209	2.2%
<i>R&amp;D Facilities</i>	339	352	<b>407</b>	55	15.5%
NASA Non-R&D Activities	3,936	3,824	<b>3,995</b>	171	4.5%
<b>Total NASA Budget</b>	13,653	13,601	<b>14,035</b>	435	3.2%
<b>Detail of R&amp;D in NASA Appropriations:</b>					
1. Human Space Flight (HSF)					
Russian Program Assurance	203	200	<b>300</b>	100	50.0%
Vehicle	1,184	965	<b>533</b>	-433	-44.8%
Research	337	394	<b>455</b>	61	15.5%
Operations Capability	576	764	<b>827</b>	63	8.2%
Total Int'l. Space Station	2,300	2,323	<b>2,115</b>	-209	-9.0%
Other HSF R&D	23	10	<b>20</b>	10	93.7%
Total HSF R&D	2,322	2,333	<b>2,135</b>	-199	-8.5%

(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 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01	
				Amount	Percent
<b>2. Science, Aeronautics and Technology (SAT)</b>					
Space Science					
Chandra X-Ray Observatory	45	4	0	-4	-100.0%
SIRTF <sup>1</sup>	120	123	118	-6	-4.7%
Relativity Mission	61	50	14	-36	-72.3%
TIMED <sup>2</sup>	53	28	0	-28	-100.0%
Stratospheric Observatory	58	39	34	-5	-13.1%
Payload & Instru. Develop.	29	14	7	-7	-47.8%
Explorers	205	122	139	17	13.5%
Mars Surveyor	228	248	327	78	31.5%
Discovery	124	155	197	42	27.1%
Mission Ops. & Data Analysis	117	75	80	5	6.1%
Supporting Res. and Tech.	916	1,179	1,303	124	10.5%
Hubble Space Telescope	160	160	168	8	5.0%
Miscellaneous Adjustments	3	-5	13	18	-364.0%
Total Space Science	2,119	2,193	2,399	206	9.4%
Life and Microgravity Sciences and Applications (LMSA)					
Adv. Human Support Tech.	25	30	31	1	2.3%
Biomedical Research	60	57	77	20	34.5%
Fundamental Biology	41	38	39	1	2.6%
Microgravity Research	114	109	129	20	18.8%
Health Research	8	9	11	3	29.9%
Mission Integration	2	17	0	-17	-98.6%
Investments	0	0	1	1	--
Space Product Development	15	14	14	-1	-5.6%
Total LMSA	264	275	302	28	10.1%
Earth Science					
Earth Observing System	548	501	447	-54	-10.7%
EOS Data Info. System	262	262	252	-10	-3.8%
Earth Probes	109	164	120	-43	-26.4%
Earth Sci. Program Science	252	286	353	67	23.4%
Technology Infusion	104	96	111	14	15.0%
Applications, Commerc. & Edu.	83	86	69		
Mission Operations and Other	57	49	53	4	9.1%
Total Earth Science	1,414	1,443	1,406	-38	-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 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01 Amount	Percent
Aero-Space Technology					
Aero-Space Res. & Tech.	1,199	985	<b>1,058</b>	73	7.4%
<i>Research and Tech. Base</i>	488	582	<b>539</b>	-42	-7.3%
<i>HPCC</i> <sup>3</sup>	21	24	<b>24</b>	0	0.0%
<i>High speed research</i>	181	0	<b>0</b>	0	--
<i>Adv Subsonic Tech</i>	90	0	<b>0</b>	0	--
<i>Aviation System Capacity</i>	54	63	<b>59</b>	-4	-5.9%
<i>Aviation Safety</i>	0	64	<b>70</b>	6	8.7%
<i>Ultra Efficient Engine Tech.</i>	0	68	<b>35</b>	-33	-48.8%
<i>Small Air Transport System</i>	0	0	<b>9</b>	9	--
<i>Quiet Aircraft Tech. Prog.</i>	0	0	<b>20</b>	20	--
<i>2nd Generation RLV</i>	365	183	<b>290</b>	107	58.1%
<i>Investments</i>	0	0	<b>11</b>	11	--
Commercial Tech. Programs	140	140	<b>135</b>	-5	-3.6%
Total Aero-Space Tech.	1,339	1,125	<b>1,193</b>	68	6.1%
Mission Communications Services / Space Operations*					
Ground Networks	157	159	<b>0</b>	-159	-100.0%
Mission Control & Data Sys.	213	242	<b>0</b>	-242	-100.0%
Space Network Customer Serv.	10	5	<b>0</b>	-5	-100.0%
Space Operations *	0	0	<b>529</b>	529	--
Total Mission Comm. *	380	406	<b>529</b>	123	30.3%
Academic Programs					
Education Programs	72	85	<b>54</b>	-31	-36.4%
Minority Res. and Edu.	67	54	<b>46</b>	-8	-14.6%
Total Academic Programs	139	139	<b>100</b>	-39	-28.0%
3. Mission Support *					
Research & Program Mngmt.	1,573	1,681	<b>1,730</b>	50	3.0%
Construction of Facilities	169	182	<b>246</b>	64	35.2%
Total Mission Support R&D	1,741	1,862	<b>1,976</b>	114	6.1%

Source: OMB R&D data for FY 2001, agency budget justification, and agency documents.

(continued)

Table II-12. NASA R&D

\* - The FY 2001 budget proposes to merge Mission Communication Services in SAT and Space Communications Services in Mission Support into a Space Operations account.

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

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

<sup>3</sup> High Performance Computing and Communications.

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

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

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

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
Space Shuttle (in HSF)	2,998	2,980	<b>3,166</b>	186	6.2%
Other non-R&D in HSF	160	155	<b>200</b>	45	29.0%
Mission Support Non-R&D *	758	670	<b>608</b>	-62	-9.3%
Inspector General	20	20	<b>22</b>	2	10.0%
Total NASA Non-R&D Activities	3,936	3,824	<b>3,995</b>	171	4.5%

Source: *Budget of the United States Government FY 2001* and agency budget justification.

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

\* - The FY 2001 budget proposes to merge Mission Communication Services in SAT and Space Communications Services in Mission Support into a Space Operations account.

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 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
<b>Agricultural Research Service (ARS)</b>					
Programs (conduct of R&D only)	815	853	<b>917</b>	64	7.5%
Buildings and Facilities <sup>1</sup>	56	53	<b>39</b>	-14	-26.4%
Total ARS R&D	871	906	<b>956</b>	50	5.5%
<b>Cooperative State Research, Education, and Extension Service (CSREES)</b>					
Research & Education Progs.	463	538	<b>523</b>	-15	-2.8%
<i>National Research Initiative</i>	119	119	<b>150</b>	31	26.1%
<i>Hatch Act (Ag. Experiment)</i>	181	181	<b>181</b>	0	0.0%
<i>Special Research Grants</i>	60	64	<b>9</b>	-55	-85.9%
<i>Initiative for Future Agri.</i> <sup>3</sup>	0	120	<b>120</b>	0	--
<i>All Other</i>	103	54	<b>63</b>	9	16.7%
Total CSREES R&D <sup>3</sup>	463	538	<b>523</b>	-15	-2.8%
Forest Service	210	211	<b>237</b>	26	12.3%
Economic Research Service	63	64	<b>55</b>	-9	-14.1%
Agricultural Marketing Service	5	5	<b>6</b>	1	20.0%
National Agricultural Statistics	4	4	<b>4</b>	0	0.0%
Animal and Plant Inspection	20	21	<b>21</b>	0	0.0%
Federal Grain Inspection	3	3	<b>6</b>	3	100.0%
Alternative Agri. Res. and Comm.	4	0	<b>0</b>	0	--
Foreign Agricultural Service	1	1	<b>1</b>	0	0.0%
Office of the Secretary <sup>2</sup>	1	10	<b>15</b>	5	50.0%
<b>Total USDA R&amp;D</b>	1,645	1,763	<b>1,824</b>	61	3.5%

Source: OMB data for R&D for FY 2001, 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.

<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. The FY 1999 and 2000 Agriculture appropriations bills prohibited the expenditure of FY 1999 funds in FY 1999 and FY 2000 funds in FY 2000, respectively, but the FY 1999 funds became available in FY 2000 and are shown in the FY 2000 column. The FY 2001 budget assumes that under current law the FY 2000 funds will become available in FY 2001.

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

**Please see Chapter 13 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 1999 Actual	FY 2000 Estimate	FY 2001 Budget	Change FY 00-01	
				Amount	Percent
National Oceanic and Atmospheric Administration					
Total NOAA R&D	593	591	<b>594</b>	3	0.5%
National Institute of Standards and Technology (NIST - Non-R&D components excluded)					
1. Scientific and Technical Research and Services (STRS)					
Measurement and Standards Laboratories (MSL)					
Electronics & Elec. Eng.	38	38	<b>40</b>	2	4.4%
Manufacturing Engineering	19	18	<b>22</b>	4	20.0%
Chemical Sci. and Tech.	32	32	<b>33</b>	1	3.7%
Physics	27	27	<b>36</b>	9	34.2%
Materials Science and Eng.	41	41	<b>47</b>	6	14.1%
Building and Fire Research	14	14	<b>13</b>	-1	-6.1%
Computer Sci./ Applied Math.	42	42	<b>49</b>	6	14.8%
Technology Assistance	4	4	<b>4</b>	0	-1.0%
Research Support	17	19	<b>25</b>	6	33.1%
Total STRS / MSL R&D	234	236	<b>269</b>	33	14.0%
2. Industrial Technology Services					
Advanced Tech. Program	174	115	<b>148</b>	33	28.9%
IIIIP <sup>1</sup>	0	0	<b>44</b>	44	--
<i>Manuf. Exten. Part. (Non-R&amp;D)</i>	107	104	<b>114</b>	10	9.6%
3. Construction					
	57	107	<b>36</b>	-71	-66.4%
Total NIST R&D	465	458	<b>497</b>	39	8.6%
Technology Administration	1	1	<b>1</b>	0	0.0%
Nat'l Telecomm. & Info. Admin.	22	20	<b>53</b>	33	165.0%
- <i>Telecommunication Sci. Res.</i>	4	4	<b>8</b>	4	100.0%
- <i>Tech. Opportunity Grants</i>	18	16	<b>45</b>	29	181.3%
Bureau of the Census	2	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>	1,084	1,073	<b>1,148</b>	75	7.0%

Source: OMB data for R&amp;D and agency budget documents.

<sup>1</sup> Institute for Information Infrastructure Protection.

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

**Please see Chapter 14 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 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
Federal Aviation Administration	231	226	<b>284</b>	58	25.7%
Federal Highway Administration <sup>1</sup>	253	257	<b>314</b>	57	22.3%
- Surface Transportation Res.	73	72	<b>128</b>	56	78.1%
- Intelligent Transportation Sys.	34	41	<b>47</b>	5	13.0%
- State Planning and Research	123	132	<b>128</b>	-4	-3.2%
- All Other	24	12	<b>12</b>	0	0.0%
Federal Transit Administration	17	17	<b>14</b>	-3	-16.9%
Nat'l High. Traffic & Safety Adm. <sup>1</sup>	50	51	<b>95</b>	45	88.4%
Federal Railroad Administration	22	25	<b>29</b>	4	17.8%
Office of the Secretary	9	3	<b>5</b>	2	48.2%
Research & Special Programs	7	7	<b>13</b>	6	89.4%
Coast Guard	18	20	<b>23</b>	2	11.5%
<b>Total DOT R&amp;D</b>	<b>607</b>	<b>606</b>	<b>778</b>	<b>172</b>	<b>28.3%</b>

Source: OMB data for R&D for FY 2001; 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.

<sup>1</sup> FY 2001 figures reflect proposals to allocate a portion of revenue aligned budget authority (RABA) to R&D programs.

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

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
Federal Highway Administration	29,658	31,605	<b>34,051</b>	2,446	7.7%
Federal Aviation Administration	10,178	9,990	<b>11,221</b>	1,231	12.3%
Federal Transit Administration	4,994	5,799	<b>6,343</b>	544	9.4%
Coast Guard	4,633	4,163	<b>4,512</b>	349	8.4%
Federal Railroad Administration	771	734	<b>1,071</b>	337	45.9%
Nat'l Highway Traffic Safety Admin.	362	367	<b>500</b>	133	36.2%
All Other <sup>1</sup>	499	722	<b>760</b>	38	5.3%
Miscellaneous Receipts	-261	-259	<b>-181</b>	78	-30.1%
<b>Total DOT Budget *</b>	<b>50,834</b>	<b>53,121</b>	<b>58,277</b>	<b>5,156</b>	<b>9.7%</b>

Source: *Budget of the United States Government FY 2001*.

\* - 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 14 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 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
U.S. Geological Survey <sup>1</sup>	427	502	<b>539</b>	37	7.3%
<i>National Mapping, Geography</i>	--	23	<b>38</b>	15	65.7%
<i>Geologic &amp; Mineral Resources</i>	--	211	<b>218</b>	7	3.1%
<i>Water Resources</i>	--	131	<b>132</b>	1	0.9%
<i>Biological Research</i>	--	137	<b>151</b>	14	10.1%
Minerals Management Service	31	32	<b>11</b>	-21	-65.6%
National Park Service	30	31	<b>31</b>	0	0.0%
Bureau of Reclamation	8	5	<b>6</b>	1	20.0%
Bureau of Land Management	3	3	<b>3</b>	0	0.0%
<b>Total Interior R&amp;D</b>	499	573	<b>590</b>	17	2.9%
Conduct of R&D	493	567	<b>584</b>	17	2.9%
R&D Facilities	6	6	<b>6</b>	0	0.0%

Source: OMB data for R&D for FY 2001 and agency supporting documents.

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

<sup>1</sup> Because of restructurings, comparable FY 1999 bureau details are not available.

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

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
Bureau of Land Management	1,389	1,437	<b>1,489</b>	52	3.6%
Minerals Management Service	606	800	<b>717</b>	-83	-10.4%
Office of Surface Mining...	360	401	<b>376</b>	-25	-6.2%
Bureau of Reclamation	872	824	<b>846</b>	22	2.7%
U.S. Geological Survey	797	816	<b>896</b>	80	9.8%
U.S. Fish and Wildlife Service	1,434	1,511	<b>1,748</b>	237	15.7%
National Park Service	2,001	2,066	<b>2,310</b>	244	11.8%
Bureau of Indian Affairs	1,823	1,962	<b>2,291</b>	329	16.8%
Other	1,289	851	<b>726</b>	-125	-14.7%
Misc. Offsetting Receipts	-2,442	-2,430	<b>-2,296</b>	134	-5.5%
<b>Total Interior Budget</b>	8,129	8,238	<b>9,103</b>	865	10.5%

Source: *Budget of the United States Government FY 2001*.

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 14 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 1999 Actual	FY 2000 Estimate	<b>FY 2001 Budget</b>	Change FY 00-01	
				Amount	Percent
<b>EPA R&amp;D:</b>					
Science and Technology <sup>1</sup>	511	497	<b>493</b>	-4	-0.7%
Superfund	40	38	<b>36</b>	-2	-5.5%
Leaking Undergrd. Storage Tanks	1	1	<b>1</b>	0	16.7%
Oil Spill Response	1	1	<b>1</b>	0	11.1%
Other R&D Support Costs	117	111	<b>142</b>	31	28.3%
<b>Total EPA R&amp;D</b>	669	647	<b>673</b>	26	4.0%
Conduct of R&D	553	537	<b>531</b>	-6	-1.2%
R&D Facilities and Equipment	116	110	<b>142</b>	32	29.1%
<b>EPA Budget (Includes R&amp;D components above):</b>					
Science and Technology <sup>2</sup>	701	681	<b>710</b>	29	4.2%
Environmental Progs. and Mngmt.	1,853	1,895	<b>2,099</b>	204	10.8%
Superfund <sup>2</sup>	1,452	1,362	<b>1,414</b>	52	3.8%
State and Tribal Assistance Grants	3,408	3,446	<b>2,907</b>	-539	-15.6%
Buildings and Facilities	57	62	<b>24</b>	-38	-61.3%
Leaking Undergrd. Storage Tanks	73	70	<b>72</b>	2	2.9%
Oil Spill Response	15	15	<b>16</b>	1	6.7%
Inspector General	31	32	<b>34</b>	2	6.3%
<b>Total EPA Appropriations</b>	7,590	7,563	<b>7,276</b>	-287	-3.8%

Source: OMB data for R&D for FY 2001, agency budget justification, information from agency budget office, and *Budget of the United States Government FY 2001*. Discretionary budget authority only. Excludes mandatory spending and offsets.

<sup>1</sup> Does not include transfers from Superfund.

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

**Please see Chapter 14 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 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
Edu. Research and Improvement	100	122	<b>144</b>	22	18.0%
Special Education and Rehab.	87	92	<b>98</b>	6	6.5%
Vocational and Adult Education	13	13	<b>13</b>	0	0.0%
Elementary and Secondary Ed.	0	0	<b>10</b>	10	--
Postsecondary Education	5	6	<b>6</b>	0	0.0%
<b>Total Education R&amp;D</b>	205	233	<b>271</b>	38	16.3%
Conduct of R&D	205	233	<b>271</b>	38	16.3%
R&D Facilities	0	0	<b>0</b>	0	--

Source: OMB data for R&D for FY 2001 and agency budget justification.

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

	FY 1999	FY 2000	FY 2001	Change FY 00-01	
	Actual	Estimate	Budget	Amount	Percent
Education Reform	1,314	1,765	<b>2,073</b>	308	17.5%
Education for Disadvantaged <sup>1,2</sup>	3,670	8,701	<b>9,150</b>	449	5.2%
School Improvement <sup>1</sup>	2,811	1,492	<b>3,917</b>	2,425	162.5%
Special Education <sup>1</sup>	5,334	2,294	<b>6,369</b>	4,075	177.6%
Rehab. Services & Disability Res.	2,652	2,707	<b>2,799</b>	92	3.4%
Vocational and Adult Education <sup>1</sup>	1,539	891	<b>1,751</b>	860	96.5%
Office of Student Financial Assist.	12,076	10,540	<b>12,631</b>	2,091	19.8%
Higher Education	1,310	1,529	<b>1,796</b>	267	17.5%
Edu. Research and Improvement	657	591	<b>503</b>	-88	-14.9%
Departmental Management	464	488	<b>526</b>	38	7.8%
Other	1,923	1,818	<b>3,306</b>	1,488	81.8%
Misc. Offsetting Receipts	-66	-77	<b>-1,359</b>	-1,282	1664.9%
<b>Total Education Budget</b>	33,684	32,739	<b>43,462</b>	10,723	32.8%

Source: *Budget of the United States Government FY 2001*. Includes budget authority from appropriations and permanent (mandatory) budget authority.

<sup>1</sup> FY 2001 includes advance appropriations (\$12.4 bil.) already enacted.

Advance appropriations (\$12.4 bil.; FY 2002) are requested in the FY 2001 budget.

<sup>2</sup> FY 2000 budget includes \$6.2 billion in advance appropriations.

**Please see Chapter 6 for a discussion of the Education budget.**