

FEDERAL RESEARCH AND DEVELOPMENT SPENDING

(Budget authority, dollar amounts in millions)

| | 2001 Actual* | 2007 Proposed | 2008 Proposed | Dollar Change: 2001 to 2008 | Percent Change: 2001 to 2008 |
|---|-----------------|------------------|------------------|--------------------------------|---------------------------------|
| Total R&D, by Agency | | | | | |
| Defense | 42,235 | 74,234 | 78,862 | 36,627 | 87% |
| Health and Human Services | 21,037 | 28,737 | 29,027 | 7,990 | 38% |
| National Aeronautics and Space Administration** | 9,675 | 12,245 | 12,428 | 2,753 | 28% |
| Energy | 7,772 | 9,158 | 9,224 | 1,452 | 19% |
| National Science Foundation | 3,363 | 4,548 | 4,880 | 1,517 | 45% |
| Agriculture | 2,182 | 2,012 | 2,010 | -172 | -8% |
| Commerce | 1,054 | 1,065 | 1,088 | 34 | 3% |
| Homeland Security | N/A | 1,508 | 1,068 | 1,467 | N/A |
| Veterans Affairs | 748 | 765 | 822 | 74 | 10% |
| Transportation | 792 | 557 | 812 | 20 | 3% |
| Interior | 622 | 600 | 621 | -1 | 0% |
| Environmental Protection Agency | 598 | 557 | 562 | -36 | -6% |
| Education | 264 | 302 | 317 | 53 | 20% |
| Other | 922 | 916 | 934 | 12 | 1% |
| TOTAL | 91,264 | 137,204 | 142,655 | 51,391 | 56% |
| Basic Research | | | | | |
| Defense | 1,271 | 1,422 | 1,428 | 157 | 12% |
| Health and Human Services | 11,601 | 16,037 | 15,615 | 4,014 | 35% |
| National Aeronautics and Space Administration** | 1,652 | 2,226 | 2,226 | 574 | 35% |
| Energy | 2,390 | 3,315 | 3,409 | 1,019 | 43% |
| National Science Foundation | 2,894 | 3,687 | 3,993 | 1,099 | 38% |
| Agriculture | 801 | 771 | 771 | -30 | -4% |
| Commerce | 50 | 87 | 132 | 82 | 164% |
| Homeland Security | N/A | 49 | 164 | 112 | N/A |
| Veterans Affairs | 301 | 306 | 330 | 29 | 10% |
| Transportation | 17 | 39 | 0 | -17 | -100% |
| Interior | 56 | 40 | 39 | -17 | -30% |
| Environmental Protection Agency | 105 | 94 | 94 | -11 | -10% |
| Education | 2 | 13 | 8 | 6 | 300% |
| Other | 190 | 161 | 162 | -28 | -15% |
| SUBTOTAL | 21,330 | 28,247 | 28,371 | 7,041 | 33% |
| Applied Research | | | | | |
| Defense | 3,673 | 4,478 | 4,357 | 684 | 19% |
| Health and Human Services | 9,064 | 12,540 | 13,237 | 4,173 | 46% |
| National Aeronautics and Space Administration** | 2,533 | 1,118 | 1,127 | -1,406 | -56% |
| Energy | 2,330 | 2,723 | 2,869 | 539 | 23% |
| National Science Foundation | 181 | 379 | 380 | 199 | 110% |
| Agriculture | 1,045 | 974 | 984 | -61 | -6% |
| Commerce | 768 | 769 | 696 | -72 | -9% |
| Homeland Security | N/A | 943 | 533 | 399 | N/A |
| Veterans Affairs | 432 | 414 | 444 | 12 | 3% |
| Transportation | 445 | 305 | 541 | 96 | 22% |
| Interior | 534 | 510 | 525 | -9 | -2% |
| Environmental Protection Agency | 370 | 359 | 364 | -6 | -2% |
| Education | 172 | 187 | 174 | 2 | 1% |
| Other | 413 | 407 | 407 | -6 | -1% |
| SUBTOTAL | 21,960 | 26,106 | 26,638 | 4,678 | 21% |

* 2001 numbers are as published in the 2003 Budget, prior to the creation of the Department of Homeland Security.

** NASA has modified how it accounts for costs since 2001; the numbers in this table are not fully comparable.

FEDERAL RESEARCH AND DEVELOPMENT SPENDING---Continued

(Budget authority, dollar amounts in millions)

| | 2001 Actual* | 2007 Proposed | 2008 Proposed | Dollar Change: 2001 to 2008 | Percent Change: 2001 to 2008 |
|---|-----------------|------------------|------------------|--------------------------------|---------------------------------|
| Development | | | | | |
| Defense | 37,270 | 68,315 | 72,873 | 35,603 | 96% |
| Health and Human Services | 107 | 37 | 22 | -85 | -79% |
| National Aeronautics and Space Administration** | 2,698 | 6,755 | 6,707 | 4,009 | 149% |
| Energy | 2,042 | 1,990 | 1,891 | -151 | -7% |
| National Science Foundation | 0 | 0 | 0 | 0 | N/A |
| Agriculture | 152 | 155 | 156 | 4 | 3% |
| Commerce | 170 | 94 | 72 | -98 | -58% |
| Homeland Security | N/A | 335 | 269 | 746 | N/A |
| Veterans Affairs | 15 | 45 | 48 | 33 | 220% |
| Transportation | 247 | 194 | 252 | 5 | 2% |
| Interior | 32 | 47 | 55 | 23 | 72% |
| Environmental Protection Agency | 101 | 104 | 104 | 3 | 3% |
| Education | 90 | 99 | 135 | 45 | 50% |
| Other | 306 | 310 | 319 | 13 | 4% |
| SUBTOTAL | 43,230 | 78,480 | 82,903 | 39,673 | 92% |
| Facilities and Equipment | | | | | |
| Defense | 21 | 19 | 204 | 183 | 871% |
| Health and Human Services | 265 | 123 | 153 | -112 | -42% |
| National Aeronautics and Space Administration** | 2,792 | 2,146 | 2,368 | -424 | -15% |
| Energy | 1,010 | 1,130 | 1,055 | 45 | 4% |
| National Science Foundation | 288 | 482 | 507 | 219 | 76% |
| Agriculture | 184 | 112 | 99 | -85 | -46% |
| Commerce | 66 | 115 | 156 | 90 | 136% |
| Homeland Security | N/A | 181 | 134 | 210 | N/A |
| Veterans Affairs | 0 | 3 | 0 | 0 | N/A |
| Transportation | 83 | 0 | 19 | -64 | -77% |
| Interior | 0 | 19 | 2 | 2 | N/A |
| Environmental Protection Agency | 22 | 0 | 0 | -22 | -100% |
| Education | 0 | 0 | 0 | 0 | N/A |
| Other | 13 | 41 | 46 | 33 | 254% |
| SUBTOTAL | 4,744 | 4,371 | 4,743 | -1 | 0% |

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