

TABLE 64

## Federal outlays for research, development, and R&amp;D plant, by agency: FYs 2003–13

(Dollars in millions)

| Agency   | 2003    | 2004    | 2005    | 2006    | 2007    | 2008    | 2009    | 2010    | 2011    | 2012    | 2013    |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| All agencies   | 104,337 | 109,031 | 121,230 | 118,909 | 123,998 | 125,125 | 129,679 | 137,523 | 135,753 | 131,030 | 129,084 |
| Departments  |         |         |         |         |         |         |         |         |         |         |         |
| Department of Agriculture                                  | 2,043   | 2,161   | 2,281   | 2,370   | 2,434   | 2,402   | 2,304   | 2,435   | 2,420   | 2,360   | 2,256   |
| Agricultural Marketing Service                             | 5       | 8       | 9       | 6       | 6       | 4       | 4       | 4       | 4       | 4       | 5       |
| Agricultural Research Service                              | 1,100   | 1,193   | 1,249   | 1,306   | 1,294   | 1,275   | 1,177   | 1,256   | 1,264   | 1,153   | 1,086   |
| Animal and Plant Health Inspection Service                 | 28      | 24      | 24      | 26      | 26      | 28      | 25      | 26      | 25      | 32      | 31      |
| Economic Research Service                                  | 70      | 66      | 75      | 73      | 91      | 78      | 80      | 86      | 88      | 80      | 79      |
| Foreign Agricultural Service                               | 2       | 2       | 2       | 1       | 1       | *       | *       | *       | 1       | 1       | 1       |
| Forest Service   | 321     | 345     | 343     | 355     | 360     | 359     | 368     | 433     | 370     | 365     | 350     |
| Grain Inspection, Packers, and Stockyards Administration   | 5       | 7       | 7       | 7       | 7       | 7       | 7       | 6       | 7       | 7       | 6       |
| National Agricultural Statistics Service                   | 6       | 6       | 6       | 7       | 7       | 7       | 7       | 7       | 7       | 7       | 7       |
| National Institute of Food and Agriculture                 | 503     | 507     | 563     | 586     | 622     | 639     | 634     | 612     | 654     | 707     | 688     |
| Rural Business-Cooperative Service                         | 4       | 4       | 4       | 4       | 21      | 4       | 3       | 4       | 1       | 4       | 3       |
| Department of Commerce                                     | 1,248   | 1,157   | 747     | 710     | 1,059   | 1,166   | 1,252   | 1,409   | 1,590   | 1,402   | 1,262   |
| Census Bureau  | 20      | 24      | 23      | 22      | 22      | 25      | 29      | 47      | 59      | 102     | 131     |
| Economic Development Administration                        | *       | *       | *       | *       | 1       | 21      | 28      | 34      | 16      | NA      | NA      |
| National Institute of Standards and Technology             | 537     | 558     | 478     | 467     | 457     | 493     | 501     | 637     | 742     | 720     | 576     |
| National Oceanic and Atmospheric Administration            | 668     | 550     | 242     | 216     | 574     | 627     | 687     | 685     | 766     | 573     | 547     |
| National Telecommunications and Information Administration | 24      | 24      | 3       | 5       | 5       | *       | 7       | 7       | 7       | 7       | 8       |
| Department of Defense                                      | 49,852  | 53,165  | 64,522  | 63,818  | 68,709  | 68,862  | 66,971  | 67,763  | 72,659  | 65,392  | 65,107  |
| Defense Advanced Research Projects Agency                  | na      | na      | na      | na      | na      | na      | na      | na      | 2,889   | 2,833   | 2,692   |
| Defense agencies and activities                            | 11,879  | 11,141  | 17,134  | 14,005  | 14,723  | 15,560  | 15,607  | 15,210  | na      | na      | na      |
| Department of the Air Force                                | 18,153  | 19,721  | 20,951  | 21,446  | 24,498  | 24,214  | 23,569  | 26,235  | 25,970  | 25,178  | 24,858  |
| Department of the Army                                     | 7,092   | 6,954   | 9,847   | 10,662  | 10,360  | 11,057  | 10,125  | 9,210   | 8,125   | 6,688   | 7,817   |
| Department of the Navy                                     | 12,485  | 15,044  | 16,270  | 17,443  | 18,935  | 17,851  | 17,492  | 16,924  | 15,362  | 14,365  | 15,506  |
| Operational Test and Evaluation, Director                  | 243     | 305     | 320     | 262     | 193     | 180     | 179     | 184     | NA      | NA      | NA      |
| Other defense agencies                                     | na      | na      | na      | na      | na      | na      | na      | na      | 20,313  | 16,327  | 14,234  |
| Department of Education                                    | 316     | 227     | 264     | 255     | 271     | 287     | 312     | 322     | 106     | 102     | 97      |
| Department of Energy                                       | 8,424   | 8,502   | 8,607   | 8,213   | 8,444   | 8,857   | 9,771   | 9,891   | 10,456  | 10,314  | 9,861   |
| Advanced Research Projects Agency—Energy                   | NA      | NA      | NA      | NA      | NA      | 0       | 0       | 64      | 118     | 142     | 144     |
| Bonneville Power Administration                            | 23      | 24      | 11      | 11      | 11      | 14      | 8       | 13      | 13      | 14      | 14      |
| Civilian Radioactive Waste Management                      | 76      | 74      | 74      | 53      | 11      | 8       | 2       | 0       | 0       | 0       | 0       |
| Electricity Delivery and Energy Reliability                | na      | na      | 72      | 108     | 54      | 89      | 87      | 83      | 90      | 101     | 45      |
| Energy Efficiency and Renewable Energy                     | 688     | 604     | 594     | 457     | 648     | 794     | 730     | 969     | 888     | 910     | 721     |
| Environmental Management                                   | 69      | 43      | 50      | 34      | 32      | 36      | 13      | 70      | 67      | 46      | 9       |

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(Dollars in millions)

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|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Fossil Energy   | 643    | 506    | 539    | 386    | 431    | 325    | 359    | 364    | 303    | 298    | 376    |
| National Nuclear Security Administration                      | 3,895  | 4,005  | 3,925  | 3,858  | 3,794  | 3,999  | 3,661  | 3,769  | 4,186  | 4,013  | 3,930  |
| Defense Programs  | 2,997  | 3,135  | 3,001  | 2,865  | 2,828  | 2,939  | 2,576  | 2,486  | 2,888  | 2,701  | 2,643  |
| Fissile Materials Disposition                                 | 17     | 1      | 0      | 0      | 0      | NA     | NA     | NA     | NA     | NA     | NA     |
| Naval Nuclear Propulsion Program                              | 658    | 706    | 778    | 750    | 761    | 761    | 770    | 945    | 974    | 1,080  | 994    |
| Office of Defense Nuclear Nonproliferation                    | 224    | 163    | 145    | 243    | 205    | 299    | 315    | 338    | 324    | 231    | 294    |
| Nuclear Energy  | 43     | 79     | 83     | 89     | 81     | 133    | 116    | 368    | 388    | 361    | 263    |
| Office of Intelligence  | 4      | 0      | NA     | NA     | NA     | NA     | NA     | NA     | NA     | NA     | NA     |
| Office of Science   | 2,983  | 3,167  | 3,260  | 3,217  | 3,382  | 3,458  | 4,796  | 4,191  | 4,403  | 4,428  | 4,357  |
| Department of Health and Human Services                       | 27,316 | 28,263 | 28,862 | 28,799 | 29,261 | 29,268 | 35,296 | 36,610 | 30,459 | 30,876 | 29,431 |
| Administration for Children and Families                      | 19     | 19     | 39     | 13     | 12     | 19     | 14     | 6      | 9      | 8      | 3      |
| Administration for Community Living                           | 4      | 3      | 2      | 3      | 3      | 0      | 0      | 0      | 0      | 0      | 0      |
| Agency for Healthcare Research and Quality                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 365    |
| Agency for Toxic Substances and Disease Registry              | 14     | 11     | 9      | 9      | 4      | 4      | 5      | 3      | 5      | 1      | 1      |
| Centers for Disease Control and Prevention                    | 564    | 540    | 511    | 688    | 679    | 414    | 339    | 343    | 296    | 445    | 301    |
| Centers for Medicare and Medicaid Services                    | 74     | 89     | 89     | 62     | 86     | 70     | 57     | 54     | 45     | 34     | 20     |
| Food and Drug Administration                                  | 158    | 134    | 140    | 140    | 130    | 138    | 164    | 201    | 215    | 337    | 345    |
| Health Resources and Services Administration                  | 439    | 48     | 53     | 24     | 24     | 62     | 56     | 67     | 37     | 21     | 37     |
| National Institutes of Health                                 | 25,965 | 27,312 | 27,926 | 27,778 | 28,257 | 28,540 | 34,641 | 35,882 | 29,830 | 30,010 | 28,341 |
| Office of the Secretary of Health and Human Services          | 22     | 21     | 25     | 27     | 24     | 22     | 20     | 54     | 20     | 19     | 19     |
| Office of Public Health and Science                           | 2      | NA     | NA     | NA     | NA     | NA     | NA     | NA     | NA     | NA     | NA     |
| Office of the Assistant Secretary for Planning and Evaluation | 20     | 21     | 25     | 27     | 24     | 22     | 20     | 54     | 20     | 19     | 19     |
| Substance Abuse and Mental Health Services Administration     | 57     | 87     | 68     | 54     | 42     | 0      | NA     | NA     | NA     | NA     | NA     |
| Department of Homeland Security                               | NA     | 592    | 1,028  | 1,714  | 1,181  | 1,009  | 438    | 976    | 1,166  | 828    | 614    |
| Coast Guard   | NA     | 21     | 11     | 24     | 24     | 16     | 21     | 27     | 22     | 22     | 22     |
| Science and Technology Directorate                            | NA     | 432    | 835    | 1,677  | 1,153  | 993    | 417    | 949    | 1,144  | 806    | 592    |
| Secret Service  | NA     | 1      | 1      | 1      | 1      | 1      | NA     | NA     | NA     | NA     | NA     |
| Transportation Security Administration                        | NA     | 138    | 180    | 12     | 4      | 0      | NA     | NA     | NA     | NA     | NA     |
| Department of Housing and Urban Development                   | 54     | 43     | 48     | 42     | 32     | 33     | 36     | 51     | 50     | 53     | 64     |
| Department of the Interior                                    | 601    | 612    | 597    | 608    | 626    | 644    | 745    | 726    | 714    | 745    | 705    |
| Bureau of Ocean Energy Management                             | 29     | 29     | 30     | 31     | 29     | 34     | 39     | 44     | 50     | 39     | 31     |

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(Dollars in millions)

| Agency   | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|--|------|------|------|------|------|------|------|------|------|------|------|
| Bureau of Reclamation                                  | 11   | 16   | 17   | 11   | 16   | 15   | 17   | 13   | 15   | 12   | 13   |
| Bureau of Safety and Environmental Enforcement         | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | NA   | 15   | 18   |
| Geological Survey                                      | 550  | 552  | 546  | 561  | 574  | 586  | 674  | 661  | 640  | 673  | 636  |
| National Park Service                                  | 10   | 14   | 4    | 4    | 8    | 9    | 14   | 8    | 9    | 5    | 7    |
| Department of Justice                                  | 103  | 69   | 66   | 71   | 124  | 113  | 103  | 119  | 102  | 67   | 110  |
| Bureau of Prisons                                      | 10   | 9    | 12   | 12   | 13   | 11   | 10   | 11   | 12   | 11   | 11   |
| Federal Bureau of Investigation                        | 43   | 34   | 33   | 34   | 71   | 26   | 15   | 30   | 18   | 8    | 30   |
| Office of Justice Programs                             | 51   | 25   | 20   | 25   | 40   | 76   | 78   | 78   | 73   | 49   | 69   |
| Department of Labor                                    | 176  | 198  | 163  | 94   | 59   | 84   | 72   | 13   | 12   | 20   | 15   |
| Bureau of Labor Statistics                             | 21   | 22   | 23   | 23   | 24   | 24   | 0    | NA   | NA   | NA   | NA   |
| Employee Benefits Security Administration              | 2    | 1    | 1    | 2    | 1    | 1    | 1    | 5    | 5    | 11   | 8    |
| Employment and Training Administration                 | 148  | 170  | 134  | 64   | 29   | 54   | 64   | NA   | NA   | NA   | NA   |
| Occupational Safety and Health Administration          | 3    | 3    | 3    | 4    | 3    | 4    | 4    | 6    | 4    | 6    | 4    |
| Office of the Secretary of Labor                       | 2    | *    | *    | *    | *    | 0    | NA   | 0    | 0    | NA   | NA   |
| Pension Benefit Guaranty Corp.                         | 1    | 1    | 2    | 2    | 2    | 2    | 2    | 3    | 3    | 3    | 3    |
| Department of State                                    | 2    | 2    | 3    | 3    | 3    | 3    | 4    | 3    | 3    | 2    | 1    |
| Department of Transportation                           | 592  | 569  | 412  | 884  | 775  | 626  | 544  | 781  | 786  | 740  | 681  |
| Federal Aviation Administration                        | 250  | 262  | 241  | 307  | 282  | 218  | 197  | 258  | 228  | 242  | 214  |
| Federal Highway Administration                         | 230  | 238  | 74   | 400  | 340  | 260  | 215  | 352  | 320  | 311  | 281  |
| Federal Motor Carrier Safety Administration            | 3    | 4    | 7    | 4    | 13   | 7    | 7    | 7    | 7    | 7    | 7    |
| Federal Railroad Administration                        | 28   | 33   | 23   | 59   | 37   | 40   | 42   | 45   | 42   | 47   | 46   |
| Federal Transit Administration                         | 4    | 4    | 4    | 7    | 4    | 7    | 7    | 22   | 42   | 26   | 11   |
| National Highway Traffic Safety Administration         | 51   | 7    | 32   | 75   | 66   | 59   | 44   | 65   | 116  | 83   | 95   |
| Office of the Secretary of Transportation              | 16   | 11   | 29   | 16   | 16   | 16   | 20   | 20   | 18   | 14   | 16   |
| Pipeline and Hazardous Materials Safety Administration | na   | 10   | 2    | 15   | 16   | 13   | 4    | 8    | 10   | 8    | 7    |
| Research and Innovative Technology Administration      | na   | 0    | 1    | 2    | 2    | 7    | 9    | 4    | 4    | 3    | 5    |
| Research and Special Programs Administration           | 11   | na   | na   | na   | na   | na   | na   | na   | na   | na   | na   |
| Department of the Treasury                             | 60   | 62   | 66   | 65   | 64   | 65   | 69   | 69   | 78   | 76   | 74   |
| Bureau of Engraving and Printing                       | 5    | 4    | 6    | 6    | 5    | 5    | 3    | 1    | 6    | 5    | 9    |
| Internal Revenue Service                               | 54   | 57   | 58   | 55   | 55   | 60   | 65   | 66   | 71   | 69   | 65   |
| Mint   | 1    | 1    | 2    | 4    | 4    | 1    | 1    | 1    | 1    | 2    | *    |
| Department of Veterans Affairs                         | 366  | 406  | 402  | 412  | 446  | 480  | 510  | 581  | 559  | 615  | 639  |
| Other agencies   |      |      |      |      |      |      |      |      |      |      |      |
| Agency for Global Media                                | 0    | 1    | *    | *    | NA   | NA   | NA   | NA   | NA   | NA   | NA   |

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(Dollars in millions)

| Agency  | 2003  | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012   | 2013   |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Agency for International Development          | 220   | 254   | 260   | 255   | 234   | 124   | 156   | 169   | 119   | 77     | 125    |
| Appalachian Regional Commission               | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | *     | 1      | *      |
| Consumer Product Safety Commission            | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | 2      | 1      |
| Environmental Protection Agency               | 550   | *     | *     | *     | *     | 532   | 553   | 595   | 582   | 581    | 530    |
| Federal Communications Commission             | 4     | 9     | 9     | 8     | 8     | 7     | 7     | 4     | 4     | 4      | 5      |
| Federal Trade Commission                      | 2     | 2     | 1     | 2     | 2     | 3     | 2     | 3     | 3     | 3      | 3      |
| Library of Congress                           | 3     | 1     | 6     | 7     | 12    | 1     | 1     | 1     | 1     | 1      | 1      |
| National Aeronautics and Space Administration | 8,720 | 8,746 | 8,657 | 6,210 | 5,930 | 6,072 | 5,815 | 8,881 | 7,724 | 10,596 | 11,331 |
| National Archives and Records Administration  | *     | *     | *     | *     | *     | 5     | 5     | 5     | 3     | 2      | 1      |
| National Science Foundation                   | 3,507 | 3,796 | 4,025 | 4,102 | 4,022 | 4,205 | 4,370 | 5,758 | 5,748 | 5,740  | 5,703  |
| Nuclear Regulatory Commission                 | 38    | 55    | 57    | 59    | 59    | 42    | 74    | 81    | 99    | 81     | 85     |
| Patient-Centered Outcomes Research Trust Fund | na    | na    | na    | na    | na    | na    | na    | na    | 9     | 41     | 74     |
| Smithsonian Institution                       | 101   | 106   | 110   | 139   | 172   | 182   | 200   | 217   | 249   | 245    | 251    |
| Social Security Administration                | 37    | 30    | 35    | 68    | 68    | 54    | 68    | 63    | 53    | 65     | 57     |

\* = amount greater than \$0 but less than \$500,000. na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data were not collected at that level for that fiscal year.

**Note(s):**

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. FYs 2009 and 2010 outlays include additional funding provided by the American Recovery and Reinvestment Act of 2009. See technical table A-2 for additional notes associated with the agencies listed in this table.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.