



Federal R&D Funding by Budget Function: Fiscal Years 2012–14

Detailed Statistical Tables | NSF 14-301 | January 2014

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General Notes

This report contains data on the budget authority (see “Definitions” below) provided to U.S. federal agencies to fund the research and development (R&D) and R&D plant components of their programs in fiscal years 2012, 2013, and 2014. The data tables in this report are a statistical supplement to the recent InfoBrief that was authored by the National Center for Science and Engineering Statistics (NCSES) and discusses the main features of this new R&D budget authority data (<https://www.nsf.gov/statistics/infbrief/nsf14306/>).

All activities covered by the federal budget, including R&D, are classified into 20 broad functional categories (see Budget Functions and Classifying R&D below). Currently, R&D activities are present in all but 4 of these categories.

The data tables in this report provide R&D budget authority detail by agency and major programs for each of the categories in which R&D is present. Several concluding tables also include budget authority figures for R&D in FY 2011 and earlier years.

The figures for FY 2012 are the actual budget authority received by the federal agencies for R&D that year. Those for FY 2013 are preliminary, reflecting agency reporting, final appropriations outcomes, and the estimated impacts of sequestration. The FY 2014 figures are the administration’s proposed funding levels, based chiefly on the President’s *Budget of the United States Government, Fiscal Year 2014*, but also reflecting agency documents and other Office of Management and Budget (OMB) data available up through August 2013. These proposed figures for FY 2014 are the basis for subsequent legislative activity in the Congress to enact the federal government’s annual budget.

Data reported here as “preliminary” or “proposed” will be revised in subsequent editions of this report to reflect the later congressional appropriation actions and agency program-funding decisions.

Definitions

Research, Development, and R&D Plant

In this report, R&D refers to basic research, applied research, and development activities in the sciences and engineering.

Research is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objective of the sponsoring agency.

Basic research is systematic study directed toward fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.

Applied research is systematic study to gain knowledge or understanding necessary to determine the means by which a recognized and specific need may be met.

Development is systematic application of knowledge or understanding, directed toward the production of useful materials, devices, and systems or methods, including design, development, and improvement of prototypes and new processes to meet specific requirements. It excludes quality control, routine product testing, and production.

Funds for conducting R&D include those for personnel, program supervision, and administrative support directly associated with R&D activities. Expendable or movable equipment needed to conduct R&D, for example, microscopes or spectrometers, is also included.

R&D plant includes such R&D facilities as reactors, wind tunnels, or particle accelerators or the construction, repair, or alteration of such facilities.

The data exclude all non-R&D activities performed within budget functions that conduct R&D and all functions in which no R&D is conducted.

Budget Authority, Obligations, and Outlays

The federal R&D funding data presented here (with only a few noted exceptions) are provided in terms of budget authority. Budget authority is used because it is the initial budget stage for congressional action on the President's proposed budget. Budget authority imposes a ceiling on obligations and outlays; obligations and outlays flow from budget authority.

Budget authority is the primary source of legal authorization to enter into obligations that will result in outlays. Budget authority is most commonly granted in the form of appropriations by the congressional committees assigned to determine the budget for each function.

Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when the future payment of money is required.

Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated or obligated.

Budget Functions and Classifying R&D

The federal budget total is the sum of funding across the 20 broad functional categories. These categories are: National defense (function 050); International affairs (150); General science, space, and technology (250); Energy (270); Natural resources and environment (300); Agriculture (350); Commerce and housing credit (370); Transportation (400); Community and regional development (450); Education, training, employment, and social services (500); Health (550); Medicare (570); Income security (600); Social security (650); Veterans benefits and services (700); Administration of justice (750); General government (800); Net interest (900); Allowances (920); and Undistributed offsetting receipts (950).

R&D has never been reported in 4 of these 20 functions: Social security (650), Net interest (900), Allowances (920), and Undistributed offsetting receipts (950). As such, data on these categories are not

present in this report except indirectly, where R&D is described as a proportion of total federal budget authority.

For the General government (800) category, small amounts of R&D were reported up through FY 2002 but had turned to zero thereafter. The data for FYs 2012 and 2013 in this report show a return to reporting of small amounts of R&D in this category.

To better highlight R&D areas of high interest, the data tables in this report split the General science, space, and technology (250) category into its two subfunctions: General science and basic research (251) and Space flight, research, and supporting activities (252).

Overall, this report's data tables separately cover 17 functional categories: 15 at the broad functional category level and 2 at the subcategory level.

Each specific R&D activity is assigned to only one functional category—consistent with the official codes used in budget documents, even though the R&D activity may address the objectives of several functions. For example, all R&D activities sponsored by the Department of Defense (except for those of the U.S. Army Corps of Engineers) are classified as National defense (050), even though some of these have secondary objectives, such as Space flight, research, and supporting activities (252) or Health (550). Nonetheless, an agency's overall R&D effort can involve multiple activities spread across several functional categories, which means that a functional category can show the presence of several agencies. For example, the federal funding for the past national project to map the human genome, which involved the activities of several agencies and a number of R&D programs, appeared in both the Health (550) and General science and basic research (251) categories.

Finally, not all federally sponsored basic research is categorized in the General science and basic research (251) subfunction. Some basic research is included in many of the other functional categories. Also, not all of R&D included in the 251 subfunction is basic research—some is applied research.

Appendix A maps the mix of agency funding of R&D activities across the budget function categories.

Data Sources

The federal budget does not include a separately identified R&D account. Furthermore, most appropriations for R&D are not directly labeled as such (except in certain program areas such as defense, energy, health, and environment). As such, most funds for R&D are not line items in agency budget submissions, but are included instead as part of general program funding.

To provide information on federal R&D funding, OMB requires all agencies with R&D funding levels greater than \$10 million annually to submit data on their R&D programs as part of their annual budget submissions. Each such agency is requested to provide data on funding levels for basic research, applied research, development, R&D facilities, and capital equipment for R&D, in accordance with OMB's Circular A-11, MAX Schedule C, "Research and Development Activities."

The data in the present report were collected between February and August 2013 and represent the agencies' best estimates of actual and proposed federal funding for R&D over the FYs 2012–14 period. The data are based primarily on information provided to OMB by 26 agencies and account for an estimated 99% of all federally sponsored R&D activities. The data reflect R&D funding information that became available from individual agencies after the administration's budget was prepared and released after the February 2013 publication of the *Budget of the United States Government, Fiscal Year 2014*. This later information consists of budget justification documents that agencies submit to Congress and

supplemental, program-specific information obtained from agency budget and program staff, collected through August 2013. Accordingly, the budget numbers reported for individual activities, programs, or agencies may differ somewhat from those published in the President's budget or in agency budget documents.

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| 7 | R&D and R&D plant |
| | General science and basic research (251) |
| 8 | R&D and R&D plant |
| | Space flight, research, and supporting activities (252) |
| 9 | R&D and R&D plant |
| | Energy (270) |
| 10 | R&D and R&D plant |
| | Natural resources and environment (300) |
| 11 | R&D and R&D plant |
| | Agriculture (350) |
| 12 | R&D and R&D plant |
| | Commerce and housing credit (370) |
| 13 | R&D and R&D plant |
| | Transportation (400) |
| 14 | R&D and R&D plant |
| | Community and regional development (450) |
| 15 | R&D and R&D plant |
| | Education, training, employment, and social services (500) |
| 16 | R&D and R&D plant |
| | Health (550) |
| 17 | R&D and R&D plant |
| | National Institutes of Health |
| 18 | R&D and R&D plant |
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| 19 | R&D and R&D plant |
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| 20 | R&D and R&D plant |

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TABLE 1. Federal budget authority for R&D and R&D plant, by budget function, ordered by FY 2012 R&D and R&D plant total:
FYs 2012–14

(Millions of dollars)

| Budget function | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 143,737 | 133,515 | 144,352 | -7.2 | 8.3 |
| National defense | 79,875 | 71,980 | 74,601 | -9.9 | 3.6 |
| Health | 31,411 | 30,056 | 32,468 | -4.9 | 8.7 |
| Space flight, research, and supporting activities | 10,801 | 10,599 | 11,183 | -1.9 | 5.5 |
| General science and basic research | 10,536 | 9,741 | 10,977 | -7.6 | 12.7 |
| Natural resources and environment | 2,300 | 2,190 | 2,603 | -4.8 | 18.8 |
| Energy | 2,231 | 1,978 | 3,211 | -11.3 | 62.3 |
| Agriculture | 2,005 | 1,850 | 2,183 | -7.7 | 18.0 |
| Transportation | 1,511 | 1,423 | 1,490 | -5.8 | 4.7 |
| Veterans benefits and services | 1,160 | 1,130 | 1,172 | -2.6 | 3.7 |
| Education, training, employment, and social services | 640 | 621 | 617 | -3.0 | -0.7 |
| Commerce and housing credit | 698 | 725 | 1,966 | 3.9 | 171.0 |
| International affairs | 269 | 256 | 259 | -5.0 | 1.4 |
| Administration of justice | 143 | 812 | 1,408 | 468.0 | 73.3 |
| Medicare | 80 | 76 | 57 | -5.5 | -24.6 |
| Community and regional development | 58 | 63 | 93 | 8.6 | 47.6 |
| Income security | 18 | 15 | 64 | -19.0 | 338.8 |
| General government | 1 | 1 | 0 | 0.0 | -100.0 |
| R&D | 141,450 | 131,354 | 141,129 | -7.3 | 7.6 |
| National defense | 79,559 | 71,800 | 74,394 | -9.8 | 3.6 |
| Health | 31,243 | 29,896 | 32,299 | -4.9 | 8.7 |
| Space flight, research, and supporting activities | 10,661 | 10,443 | 10,951 | -2.0 | 4.9 |
| General science and basic research | 9,304 | 8,658 | 9,764 | -6.9 | 12.8 |
| Natural resources and environment | 2,147 | 2,034 | 2,425 | -5.3 | 19.2 |
| Energy | 2,197 | 1,943 | 3,186 | -11.6 | 64.0 |
| Agriculture | 1,920 | 1,771 | 1,932 | -7.8 | 9.1 |
| Transportation | 1,486 | 1,399 | 1,451 | -5.8 | 3.7 |
| Veterans benefits and services | 1,160 | 1,130 | 1,172 | -2.6 | 3.7 |
| Education, training, employment, and social services | 597 | 580 | 581 | -2.9 | 0.2 |
| Commerce and housing credit | 607 | 647 | 1,870 | 6.6 | 189.1 |
| International affairs | 269 | 256 | 259 | -5.0 | 1.4 |
| Administration of justice | 143 | 643 | 630 | 349.6 | -2.0 |
| Medicare | 80 | 76 | 57 | -5.5 | -24.6 |
| Community and regional development | 58 | 63 | 93 | 8.6 | 47.6 |
| Income security | 18 | 15 | 64 | -19.0 | 338.8 |
| General government | 1 | 1 | 0 | 0.0 | -100.0 |
| R&D plant | 2,287 | 2,161 | 3,223 | -5.5 | 49.1 |
| National defense | 316 | 180 | 207 | -43.0 | 15.0 |
| Health | 168 | 159 | 169 | -5.3 | 6.0 |
| Space flight, research, and supporting activities | 140 | 157 | 231 | 11.9 | 47.8 |
| General science and basic research | 1,233 | 1,082 | 1,213 | -12.2 | 12.1 |
| Natural resources and environment | 153 | 156 | 177 | 2.3 | 13.7 |
| Energy | 34 | 35 | 25 | 2.9 | -28.6 |
| Agriculture | 85 | 79 | 251 | -6.8 | 216.9 |
| Transportation | 25 | 24 | 39 | -5.0 | 64.3 |
| Veterans benefits and services | 0 | 0 | 0 | - | - |
| Education, training, employment, and social services | 43 | 41 | 36 | -4.4 | -12.4 |
| Commerce and housing credit | 91 | 79 | 96 | -13.7 | 21.9 |
| International affairs | 0 | 0 | 0 | - | - |
| Administration of justice | 0 | 169 | 778 | - | 359.6 |

TABLE 1. Federal budget authority for R&D and R&D plant, by budget function, ordered by FY 2012 R&D and R&D plant total: FYs 2012–14

(Millions of dollars)

| Budget function | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|------------------------------------|----------------|---------------------|------------------|-----------------------|-----------------------|
| Medicare | 0 | 0 | 0 | - | - |
| Community and regional development | 0 | 0 | 0 | - | - |
| Income security | 0 | 0 | 0 | - | - |
| General government | 0 | 0 | 0 | - | - |

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 2. Distribution of federal budget authority for R&D and R&D plant, by budget function: FYs 2012–14
(Percent distribution)

| Budget function | 2012 actual | 2013 preliminary | 2014 proposed |
|---|----------------|---------------------|------------------|
| R&D and R&D plant | 100.0 | 100.0 | 100.0 |
| National defense | 55.6 | 54.0 | 51.7 |
| Health | 21.9 | 22.4 | 22.5 |
| Space flight, research, and supporting activities | 7.5 | 7.9 | 7.7 |
| General science and basic research | 7.3 | 7.3 | 7.6 |
| Natural resources and environment | 1.6 | 1.6 | 1.8 |
| Energy | 1.6 | 1.5 | 2.2 |
| Agriculture | 1.4 | 1.4 | 1.5 |
| Transportation | 1.1 | 1.1 | 1.0 |
| Veterans benefits and services | 0.8 | 0.8 | 0.8 |
| Education, training, employment, and social services | 0.4 | 0.5 | 0.4 |
| Commerce and housing credit | 0.5 | 0.5 | 1.4 |
| International affairs | 0.2 | 0.2 | 0.2 |
| Administration of justice | 0.1 | 0.6 | 1.0 |
| Medicare | 0.1 | 0.1 | * |
| Community and regional development | * | * | 0.1 |
| Income security | * | * | * |
| General government | * | * | * |
| R&D | 100.0 | 100.0 | 100.0 |
| National defense | 56.3 | 54.7 | 52.7 |
| Health | 22.1 | 22.7 | 22.9 |
| Space flight, research, and supporting activities | 7.5 | 8.0 | 7.8 |
| General science and basic research | 6.6 | 6.6 | 6.9 |
| Natural resources and environment | 1.5 | 1.6 | 1.7 |
| Energy | 1.6 | 1.5 | 2.3 |
| Agriculture | 1.4 | 1.4 | 1.4 |
| Transportation | 1.1 | 1.1 | 1.0 |
| Veterans benefits and services | 0.8 | 0.9 | 0.8 |
| Education, training, employment, and social services | 0.4 | 0.4 | 0.4 |
| Commerce and housing credit | 0.4 | 0.5 | 1.3 |
| International affairs | 0.2 | 0.2 | 0.2 |
| Administration of justice | 0.1 | 0.5 | 0.4 |
| Medicare | 0.1 | 0.1 | * |
| Community and regional development | * | * | 0.1 |
| Income security | * | * | * |
| General government | * | * | * |
| R&D plant | 100.0 | 100.0 | 100.0 |
| National defense | 13.7 | 8.3 | 6.4 |
| Health | 7.3 | 7.4 | 5.2 |
| Space flight, research, and supporting activities | 6.1 | 7.2 | 7.2 |
| General science and basic research | 53.5 | 50.1 | 37.6 |
| Natural resources and environment | 6.6 | 7.2 | 5.5 |
| Energy | 1.5 | 1.6 | 0.8 |
| Agriculture | 3.7 | 3.7 | 7.8 |
| Transportation | 1.1 | 1.1 | 1.2 |
| Veterans benefits and services | * | * | * |
| Education, training, employment, and social services | 1.9 | 1.9 | 1.1 |
| Commerce and housing credit | 4.7 | 3.6 | 3.0 |
| International affairs | * | * | * |
| Administration of justice | * | 7.8 | 24.1 |
| Medicare | * | * | * |

TABLE 2. Distribution of federal budget authority for R&D and R&D plant, by budget function: FYs 2012–14
(Percent distribution)

| Budget function | 2012 actual | 2013 preliminary | 2014 proposed |
|------------------------------------|----------------|---------------------|------------------|
| Community and regional development | * | * | * |
| Income security | * | * | * |
| General government | * | * | * |

* = less than 0.05%.

NOTES: Detail may not add to total because of rounding. Budget functions ordered as in table 1, budget authority for R&D and R&D plant.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 3. Federal budget authority for R&D and R&D plant as percentage of total budget authority, by budget function: FYs 2012–14

| Budget function | 2012 actual | 2013 preliminary ^a | 2014 proposed |
|--|-------------|-------------------------------|---------------|
| All functions conducting R&D | 5.4 | 4.7 | 5.2 |
| National defense | 11.7 | 11.3 | 11.5 |
| Health | 8.7 | 7.6 | 7.6 |
| Space flight, research, and supporting activities | 62.8 | 65.0 | 65.2 |
| General science and basic research | 87.6 | 83.3 | 85.7 |
| Natural resources and environment | 6.2 | 5.9 | 7.3 |
| Energy | 28.8 | 18.1 | 19.4 |
| Agriculture | 9.6 | 7.8 | 9.6 |
| Transportation | 1.7 | 1.5 | 1.1 |
| Veterans benefits and services | 0.9 | 0.8 | 0.8 |
| Education, training, employment, and social services | 0.7 | 0.6 | 0.6 |
| Commerce and housing credit ^b | 5.6 | 1.2 | -17.2 |
| International affairs | 0.3 | 0.5 | 0.6 |
| Administration of justice | 0.3 | 1.4 | 2.6 |
| Medicare | * | * | * |
| Community and regional development | 0.3 | 0.1 | 0.3 |
| Income security | * | * | * |
| General government | * | * | * |

* = less than 0.05%.

^a Percentages are rough estimates, using budget authority calculated by applying sequestration reductions to eligible accounts. Figures are subject to revision.

^b Budget authority for R&D and R&D plant in Commerce and housing credit budget function increases each fiscal year, notably so in FY 2014 (see table 1). However, large budget authority declines in this budget function in FY 2014, primarily in subfunctions for federal mortgage credit programs and government-sponsored enterprise (e.g., Fannie Mae or Freddie Mac) purchase programs, make this function's R&D and R&D plant as a percentage of total category budget authority difficult to interpret.

NOTES: Total budget authority includes discretionary and mandatory budget authority, less offsets. Budget functions ordered as in table 1, budget authority for R&D and R&D plant.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, supplemental data obtained from agencies' budget offices, and OMB, *Budget of the U.S. Government, Fiscal Year 2013* (Washington, DC: U.S. Government Printing Office, 2012).

TABLE 4. Federal budget authority for basic research, by budget function: FYs 2012–14

| Budget function | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 | 2013–14 |
|---|---------------------|------------------|---------------|----------|---------|
| | Millions of dollars | | | % change | |
| All functions conducting R&D | 31,846 | 30,238 | 33,175 | -5.0 | 9.7 |
| National defense | 2,066 | 2,020 | 2,223 | -2.2 | 10.1 |
| Health | 16,196 | 15,306 | 16,182 | -5.5 | 5.7 |
| Space flight, research, and supporting activities | 3,181 | 2,918 | 3,656 | -8.3 | 25.3 |
| General science and basic research | 8,491 | 8,154 | 9,155 | -4.0 | 12.3 |
| Natural resources and environment | 135 | 126 | 149 | -6.8 | 18.4 |
| Energy | 57 | 16 | 18 | -71.9 | 12.5 |
| Agriculture | 847 | 763 | 807 | -9.9 | 5.7 |
| Transportation | 0 | 0 | 0 | - | - |
| Veterans benefits and services | 470 | 458 | 478 | -2.5 | 4.3 |
| Education, training, employment, and social services | 206 | 197 | 221 | -4.4 | 12.3 |
| Commerce and housing credit | 163 | 183 | 217 | 12.0 | 18.7 |
| International affairs | 0 | 0 | 0 | - | - |
| Administration of justice | 33 | 90 | 61 | 172.2 | -32.1 |
| Medicare | 0 | 0 | 0 | - | - |
| Community and regional development | 0 | 8 | 8 | - | 0.0 |
| Income security | 0 | 0 | 0 | - | - |
| General government | 0 | 0 | 0 | - | - |

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data. Budget functions ordered as in table 1, budget authority for R&D and R&D plant.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 5. Federal budget authority for National defense (050) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|--|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 79,875 | 71,980 | 74,601 | -9.9 | 3.6 |
| Department of Defense, military (051) | 75,585 | 68,036 | 69,680 | -10.0 | 2.4 |
| Research, development, test, and evaluation (RDT&E) | 72,970 | 64,665 | 67,520 | -11.4 | 4.4 |
| Defense agencies | 19,722 | 17,274 | 17,667 | -12.4 | 2.3 |
| Defense Advanced Research Projects Agency | 2,814 | 2,595 | 2,865 | -7.8 | 10.4 |
| Missile Defense Agency | 6,787 | 5,733 | 5,640 | -15.5 | -1.6 |
| Other defense agencies | 10,121 | 8,946 | 9,162 | -11.6 | 2.4 |
| Department of the Air Force | 26,631 | 23,479 | 25,703 | -11.8 | 9.5 |
| Department of the Army | 8,705 | 8,029 | 7,989 | -7.8 | -0.5 |
| Department of the Navy | 17,723 | 15,677 | 15,975 | -11.5 | 1.9 |
| Operational Test and Evaluation | 188 | 206 | 186 | 9.6 | -9.6 |
| Other military funding ^a | 2,615 | 3,371 | 2,160 | 28.9 | -35.9 |
| Department of Energy, atomic energy defense activities (053) | 4,257 | 3,914 | 4,888 | -8.1 | 24.9 |
| Defense environmental cleanup | 21 | 10 | 24 | -52.4 | 140.0 |
| Naval reactors development | 1,040 | 957 | 1,203 | -8.0 | 25.7 |
| Nonproliferation | 325 | 293 | 355 | -9.8 | 21.2 |
| Weapons activities | 2,869 | 2,652 | 3,304 | -7.6 | 24.6 |
| Other defense activities | 2 | 2 | 2 | 0.0 | 0.0 |
| Department of Justice, Federal Bureau of Investigation (054) | 33 | 30 | 33 | -9.1 | 10.0 |
| R&D | 79,559 | 71,800 | 74,394 | -9.8 | 3.6 |
| Department of Defense, military (051) | 75,480 | 67,966 | 69,624 | -10.0 | 2.4 |
| Research, development, test, and evaluation (RDT&E) | 72,970 | 64,665 | 67,520 | -11.4 | 4.4 |
| Defense agencies | 19,722 | 17,274 | 17,667 | -12.4 | 2.3 |
| Defense Advanced Research Projects Agency | 2,814 | 2,595 | 2,865 | -7.8 | 10.4 |
| Missile Defense Agency | 6,787 | 5,733 | 5,640 | -15.5 | -1.6 |
| Other defense agencies | 10,121 | 8,946 | 9,162 | -11.6 | 2.4 |
| Department of the Air Force | 26,631 | 23,479 | 25,703 | -11.8 | 9.5 |
| Department of the Army | 8,705 | 8,029 | 7,989 | -7.8 | -0.5 |
| Department of the Navy | 17,723 | 15,677 | 15,975 | -11.5 | 1.9 |
| Operational Test and Evaluation | 188 | 206 | 186 | 9.6 | -9.6 |
| Other military funding ^a | 2,510 | 3,301 | 2,104 | 31.5 | -36.3 |
| Department of Energy, atomic energy defense activities (053) | 4,046 | 3,804 | 4,737 | -6.0 | 24.5 |
| Defense environmental cleanup | 21 | 10 | 24 | -52.4 | 140.0 |
| Naval reactors development | 975 | 897 | 1,105 | -8.0 | 23.2 |
| Nonproliferation | 325 | 293 | 355 | -9.8 | 21.2 |
| Weapons activities | 2,723 | 2,602 | 3,251 | -4.4 | 24.9 |
| Other defense activities | 2 | 2 | 2 | 0.0 | 0.0 |
| Department of Justice, Federal Bureau of Investigation (054) | 33 | 30 | 33 | -9.1 | 10.0 |

RDT&E = research, development, test, and evaluation.

^a This item includes appropriate personnel costs in direct support of conduct of R&D, other appropriations funding certain Department of Defense programs, and medical research funded outside RDT&E accounts.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to Office of Management and Budget per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 6. Department of Defense, total obligational authority for research, development, test, and evaluation, by DOD budget activity: FYs 2012–14
(Millions of dollars)

| Budget activity ^a | Funding category and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|------------------------------|--|-------------|------------------|---------------|--------------------|--------------------|
| | RDT&E total budget authority | 71,845 | 64,665 | 67,334 | -10.0 | 4.1 |
| | RDT&E total obligational authority ^b | 72,970 | 64,665 | 67,520 | -11.4 | 4.4 |
| 1 | Basic research | 2,010 | 1,970 | 2,165 | -2.0 | 9.9 |
| | Defense Agencies | 517 | 508 | 588 | -1.7 | 15.7 |
| | Department of the Air Force | 494 | 475 | 525 | -3.7 | 10.4 |
| | Department of the Army | 409 | 402 | 437 | -1.7 | 8.6 |
| | Department of the Navy | 591 | 584 | 615 | -1.1 | 5.3 |
| 2 | Applied research | 4,730 | 4,352 | 4,627 | -8.0 | 6.3 |
| | Defense Agencies | 1,752 | 1,587 | 1,779 | -9.4 | 12.1 |
| | Department of the Air Force | 1,236 | 1,032 | 1,128 | -16.5 | 9.3 |
| | Department of the Army | 930 | 922 | 886 | -0.9 | -3.9 |
| | Department of the Navy | 813 | 812 | 835 | -0.1 | 2.8 |
| 3 | Advanced technology development | 5,318 | 5,185 | 5,192 | -2.5 | 0.1 |
| | Defense Agencies | 2,914 | 3,001 | 3,109 | 3.0 | 3.6 |
| | Department of the Air Force | 663 | 586 | 618 | -11.5 | 5.3 |
| | Department of the Army | 1,067 | 976 | 882 | -8.6 | -9.6 |
| | Department of the Navy | 674 | 621 | 583 | -7.9 | -6.1 |
| 4 | Advanced component development and prototypes | 13,579 | 11,666 | 12,057 | -14.1 | 3.3 |
| | Defense Agencies | 7,210 | 6,178 | 5,903 | -14.3 | -4.5 |
| | Department of the Air Force | 1,494 | 1,109 | 877 | -25.8 | -21.0 |
| | Department of the Army | 513 | 432 | 636 | -15.9 | 47.4 |
| | Department of the Navy | 4,362 | 3,948 | 4,641 | -9.5 | 17.6 |
| 5 | System development and demonstration | 13,573 | 12,918 | 13,699 | -4.8 | 6.0 |
| | Defense Agencies | 751 | 511 | 735 | -31.9 | 43.7 |
| | Department of the Air Force | 3,706 | 4,507 | 5,079 | 21.6 | 12.7 |
| | Department of the Army | 3,135 | 2,842 | 2,857 | -9.4 | 0.5 |
| | Department of the Navy | 5,981 | 5,058 | 5,028 | -15.4 | -0.6 |
| 6 | RDT&E management support | 5,694 | 4,168 | 4,325 | -26.8 | 3.8 |
| | Defense Agencies | 1,300 | 939 | 913 | -27.8 | -2.7 |
| | Department of the Air Force | 1,697 | 1,115 | 1,180 | -34.3 | 5.8 |
| | Department of the Army | 1,342 | 1,087 | 1,160 | -19.0 | 6.7 |
| | Department of the Navy | 1,167 | 821 | 886 | -29.6 | 7.9 |
| | Operational test and evaluation | 188 | 206 | 186 | 9.6 | -9.6 |
| 7 | Operational system development | 28,065 | 24,406 | 25,456 | -13.0 | 4.3 |
| | Defense Agencies | 5,279 | 4,550 | 4,641 | -13.8 | 2.0 |
| | Department of the Air Force | 17,341 | 14,654 | 16,298 | -15.5 | 11.2 |
| | Department of the Army | 1,309 | 1,369 | 1,131 | 4.6 | -17.4 |
| | Department of the Navy | 4,137 | 3,833 | 3,386 | -7.3 | -11.7 |
| | Adjustment for RDT&E budget authority ^b | -1,125 | 0 | -186 | na | na |

na = not applicable.

DOD = Department of Defense; RDT&E = research, development, test, and evaluation.

^a RDT&E budget activity codes are broad categories reflecting different types of RTD&E efforts, as specified in DOD Financial Management Regulation.

^b Detailed budget information on DOD RDT&E activities is available only in total obligational authority (TOA), which is sum of new budget authority, unobligated budget authority from previous years, and other authorized credits. Adjustment converts TOA to budget authority by subtracting unobligated budget from authority from previous years and other authorized credits from TOA.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, supplemental data obtained from agencies' budget offices, and OMB, *Budget of the U.S. Government, Fiscal Year 2013* (Washington, DC: U.S. Government Printing Office, 2012).

TABLE 7. Federal budget authority for International affairs (150) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|--|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 269 | 256 | 259 | -5.0 | 1.4 |
| Agency for International Development (151) | 126 | 120 | 120 | -5.0 | 0.3 |
| Department of State (151) | 81 | 77 | 77 | -5.0 | 0.1 |
| International Security Assistance (152) | 62 | 59 | 62 | -5.0 | 5.3 |
| R&D | 269 | 256 | 259 | -5.0 | 1.4 |
| Agency for International Development (151) | 126 | 120 | 120 | -5.0 | 0.3 |
| Department of State (151) | 81 | 77 | 77 | -5.0 | 0.1 |
| International Security Assistance (152) | 62 | 59 | 62 | -5.0 | 5.3 |

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 8. Federal budget authority for General science and basic research (251) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|--|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 10,536 | 9,741 | 10,977 | -7.6 | 12.7 |
| Department of Energy | | | | | |
| Office of Science | 4,463 | 4,231 | 4,737 | -5.2 | 12.0 |
| Department of Homeland Security ^a | 368 | na | na | - | - |
| National Science Foundation ^b | 5,705 | 5,510 | 6,240 | -3.4 | 13.3 |
| Arctic Research Commission | 1 | 1 | 1 | -4.1 | 0.7 |
| Biological Sciences | 712 | 679 | 761 | -4.7 | 12.0 |
| Computer and Information Science and Engineering | 653 | 859 | 950 | 31.4 | 10.7 |
| Education and Human Resources | 831 | 833 | 880 | 0.3 | 5.6 |
| Engineering | 825 | 814 | 911 | -1.3 | 12.0 |
| Geosciences | 885 | 1,266 | 1,394 | 43.0 | 10.1 |
| International and Integrative Activities | 349 | 433 | 537 | 24.3 | 23.8 |
| International Science and Engineering ^c | 50 | na | na | - | - |
| Major Research Equipment and Facilities | 198 | 196 | 210 | -1.0 | 7.1 |
| Mathematical and Physical Sciences | 1,309 | 1,250 | 1,386 | -4.5 | 10.9 |
| Office of Cyberinfrastructure ^d | 284 | na | na | - | - |
| Social, Behavioral, and Economic Sciences | 254 | 243 | 272 | -4.6 | 12.3 |
| U.S. Polar Research Programs ^e | 436 | na | na | - | - |
| Budget authority adjustment ^f | -1,082 | -1,064 | -1,063 | na | na |
| R&D | 9,304 | 8,658 | 9,764 | -6.9 | 12.8 |
| Department of Energy | | | | | |
| Office of Science | 3,839 | 3,671 | 4,046 | -4.4 | 10.2 |
| Department of Homeland Security ^a | 295 | na | na | - | - |
| National Science Foundation ^g | 5,170 | 4,987 | 5,718 | -3.5 | 14.6 |
| Arctic Research Commission | 1 | 1 | 1 | -4.1 | 0.7 |
| Biological Sciences | 712 | 679 | 761 | -4.7 | 12.0 |
| Computer and Information Science and Engineering | 653 | 859 | 950 | 31.4 | 10.7 |
| Education and Human Resources | 831 | 833 | 880 | 0.3 | 5.6 |
| Engineering | 825 | 814 | 911 | -1.3 | 12.0 |
| Geosciences | 885 | 1,266 | 1,394 | 43.0 | 10.1 |
| International and Integrative Activities | 349 | 433 | 537 | 24.3 | 23.8 |
| International Science and Engineering ^c | 50 | na | na | - | - |
| Mathematical and Physical Sciences | 1,309 | 1,250 | 1,386 | -4.5 | 10.9 |
| Office of Cyberinfrastructure ^d | 284 | na | na | - | - |
| Social, Behavioral, and Economic Sciences | 254 | 243 | 272 | -4.6 | 12.3 |
| U.S. Polar Research Programs ^e | 436 | na | na | - | - |
| Budget authority adjustment ^h | -1,419 | -1,390 | -1,375 | na | na |

na = not applicable.

^a Office of Management and Budget (OMB) reclassified Department of Homeland Security Science and Technology Directorate as subfunction 751 (Justice) beginning in FY 2013.

^b Total National Science Foundation (NSF) budget shown here includes only R&D and R&D plant; however, subaccount budgets (Arctic Research Commission, Biological Sciences, etc.) include some non-R&D and non-R&D plant funding.

^c International Science and Engineering merged with Integrative Activities in FY 2013 and renamed International and Integrative Activities.

^d Office of Cyberinfrastructure was moved into the Directorate for Computer and Information Science and Engineering in FY 2013.

^e U.S. Polar Research Programs was moved into the Directorate for Geosciences in FY 2013.

^f Budget authority adjustment subtracts non-R&D and non-R&D plant spending (such as support and overhead) from subaccount budgets.

^g Total NSF budget shown here includes funding for only R&D; however, subaccount budgets (Arctic Research Commission, Biological Sciences, etc.) include some non-R&D funding.

^h Budget authority adjustment subtracts non-R&D spending (such as support, overhead, and R&D plant) from subaccount budgets.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data. Not all federally sponsored basic research is categorized in subfunction 251. Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and OMB analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 9. Federal budget authority for Space flight, research, and supporting activities (252) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 10,801 | 10,599 | 11,183 | -1.9 | 5.5 |
| National Aeronautics and Space Administration | | | | | |
| Cross-agency support | 38 | 26 | 329 | -32.0 | 1,168.7 |
| Innovative Partnerships | 38 | 26 | 329 | -32.0 | 1,168.7 |
| Exploration | 3,414 | 3,646 | 3,512 | 6.8 | -3.7 |
| Exploration research and development | 311 | 309 | 337 | -0.4 | 9.0 |
| Exploration systems development | 2,697 | 2,568 | 2,355 | -4.8 | -8.3 |
| Commercial spaceflight | 406 | 769 | 819 | 89.5 | 6.5 |
| Science | 5,052 | 4,520 | 4,847 | -10.5 | 7.3 |
| Astrophysics | 635 | 590 | 709 | -7.2 | 20.2 |
| Earth science | 1,756 | 1,646 | 1,746 | -6.2 | 6.1 |
| Heliophysics | 645 | 600 | 614 | -7.0 | 2.4 |
| James Webb Space Telescope | 519 | 582 | 659 | 12.2 | 13.3 |
| Planetary science | 1,498 | 1,102 | 1,119 | -26.4 | 1.5 |
| Space operations | 1,627 | 1,603 | 1,570 | -1.5 | -2.0 |
| International space station | 1,604 | 1,597 | 1,567 | -0.4 | -1.9 |
| Space flight and support | 22 | 5 | 3 | -77.4 | -37.4 |
| Space technology | 530 | 648 | 693 | 22.3 | 6.9 |
| Construction, environmental compliance, and remediation | 140 | 157 | 231 | 11.9 | 47.8 |
| R&D | 10,661 | 10,443 | 10,951 | -2.0 | 4.9 |
| National Aeronautics and Space Administration | | | | | |
| Cross-agency support | 38 | 26 | 329 | -32.0 | 1,168.7 |
| Innovative Partnerships | 38 | 26 | 329 | -32.0 | 1,168.7 |
| Exploration | 3,414 | 3,646 | 3,512 | 6.8 | -3.7 |
| Exploration research and development | 311 | 309 | 337 | -0.4 | 9.0 |
| Exploration systems development | 2,697 | 2,568 | 2,355 | -4.8 | -8.3 |
| Commercial spaceflight | 406 | 769 | 819 | 89.5 | 6.5 |
| Science | 5,052 | 4,520 | 4,847 | -10.5 | 7.3 |
| Astrophysics | 635 | 590 | 709 | -7.2 | 20.2 |
| Earth science | 1,756 | 1,646 | 1,746 | -6.2 | 6.1 |
| Heliophysics | 645 | 600 | 614 | -7.0 | 2.4 |
| James Webb Space Telescope | 519 | 582 | 659 | 12.2 | 13.3 |
| Planetary science | 1,498 | 1,102 | 1,119 | -26.4 | 1.5 |
| Space operations | 1,627 | 1,603 | 1,570 | -1.5 | -2.0 |
| International space station | 1,604 | 1,597 | 1,567 | -0.4 | -1.9 |
| Space flight and support | 22 | 5 | 3 | -77.4 | -37.4 |
| Space technology | 530 | 648 | 693 | 22.3 | 6.9 |
| Construction, environmental compliance, and remediation | 0 | 0 | 0 | - | - |

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 10. Federal budget authority for Energy (270) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 2,231 | 1,978 | 3,211 | -11.3 | 62.3 |
| Department of Energy (271) | 2,091 | 1,882 | 3,107 | -10.0 | 65.1 |
| Energy programs | 1,821 | 1,634 | 2,546 | -10.3 | 55.8 |
| Energy efficiency and renewable energy | 1,003 | 856 | 1,715 | -14.7 | 100.4 |
| Electricity delivery and energy reliability | 98 | 94 | 100 | -3.8 | 6.0 |
| Fossil energy | 206 | 197 | 280 | -4.4 | 42.1 |
| Nuclear energy | 514 | 487 | 451 | -5.3 | -7.4 |
| ARPA-E | 255 | 232 | 345 | -9.0 | 48.7 |
| Bonneville Power Administration Fund | 15 | 16 | 16 | 6.7 | 0.0 |
| Energy Security Trust (272) | na | na | 200 | - | - |
| Nuclear Regulatory Commission (276) | 83 | 79 | 86 | -5.0 | 9.1 |
| Tennessee Valley Authority (271) | 17 | 17 | 18 | 0.0 | 5.9 |
| U.S. Department of Agriculture (271) | | | | | |
| National Institute of Food and Agriculture-Biomass R&D ^a | 40 | 0 | na | -100.0 | - |
| R&D | 2,197 | 1,943 | 3,186 | -11.6 | 64.0 |
| Department of Energy (271) | 2,057 | 1,847 | 3,082 | -10.2 | 66.8 |
| Energy programs | 1,787 | 1,599 | 2,521 | -10.5 | 57.6 |
| Energy efficiency and renewable energy | 986 | 838 | 1,703 | -15.0 | 103.2 |
| Electricity delivery and energy reliability | 98 | 94 | 100 | -3.8 | 6.0 |
| Fossil energy | 189 | 180 | 267 | -4.8 | 48.3 |
| Nuclear energy | 514 | 487 | 451 | -5.3 | -7.4 |
| ARPA-E | 255 | 232 | 345 | -9.0 | 48.7 |
| Bonneville Power Administration Fund | 15 | 16 | 16 | 6.7 | 0.0 |
| Energy Security Trust (272) | na | na | 200 | - | - |
| Nuclear Regulatory Commission (276) | 83 | 79 | 86 | -5.0 | 9.1 |
| Tennessee Valley Authority (271) | 17 | 17 | 18 | 0.0 | 5.9 |
| U.S. Department of Agriculture (271) | | | | | |
| National Institute of Food and Agriculture-Biomass R&D ^a | 40 | 0 | na | -100.0 | - |

na = not applicable.

ARPA-E = Advanced Research Projects Agency-Energy.

^a Biomass R&D program is authorized in the Farm Bill. It received mandatory funding in FY 2012, and was reauthorized as a discretionary program in FY 2013 but received no appropriation. It has not yet been reauthorized for FY 2014, but is under consideration for such reauthorization in the 2013 Farm Bill.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 11. Federal budget authority for Natural resources and environment (300) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 2,300 | 2,190 | 2,603 | -4.8 | 18.8 |
| Conservation and land management (302) | 435 | 402 | 486 | -7.6 | 20.9 |
| Department of the Interior ^a | 109 | 85 | 145 | -21.7 | 69.8 |
| U.S. Department of Agriculture | 326 | 317 | 341 | -2.9 | 7.7 |
| Forest Service | 326 | 317 | 341 | -2.9 | 7.7 |
| Pollution control and abatement (304) | 569 | 532 | 561 | -6.5 | 5.4 |
| Environmental Protection Agency | 568 | 531 | 560 | -6.5 | 5.4 |
| Oil spill response research | 1 | 1 | 1 | -43.6 | 77.2 |
| Science and technology | 544 | 509 | 537 | -6.5 | 5.6 |
| Superfund | 23 | 22 | 22 | -4.3 | 0.0 |
| U.S. Coast Guard (DHS) | 1 | 1 | 1 | 0.0 | 0.0 |
| Recreational resources (303) | 26 | 29 | 34 | 11.3 | 17.5 |
| National Park Service (DOI) | 26 | 29 | 34 | 11.3 | 17.5 |
| Water resources (301) | 23 | 23 | 28 | -1.8 | 24.0 |
| Army Corps of Engineers (DOD) | 11 | 10 | 11 | -5.0 | 5.3 |
| Bureau of Reclamation (DOI) | 12 | 12 | 17 | 1.1 | 40.2 |
| Other natural resources (306) | 1,247 | 1,204 | 1,494 | -3.4 | 24.0 |
| National Oceanic and Atmospheric Administration (DOC) | 574 | 561 | 733 | -2.2 | 30.6 |
| National Environmental Satellite, Data, and Information Service | 27 | 27 | 27 | 0.3 | 1.1 |
| National Marine Fisheries Service | 54 | 51 | 51 | -4.2 | -0.1 |
| National Ocean Service | 63 | 61 | 84 | -3.6 | 38.3 |
| National Weather Service | 23 | 22 | 40 | -4.5 | 86.8 |
| Office of Oceanic and Atmospheric Research | 339 | 331 | 439 | -2.1 | 32.4 |
| Office of Marine and Aviation Operations | 70 | 70 | 92 | 0.4 | 31.5 |
| U.S. Geological Survey (DOI) ^b | 673 | 643 | 761 | -4.5 | 18.3 |
| Administration and enterprise information | 1 | * | * | -10.5 | 9.5 |
| Climate and land use change | 103 | 100 | 119 | -3.3 | 18.9 |
| Core science systems | 88 | 78 | 107 | -11.5 | 37.1 |
| Ecosystems | 158 | 153 | 181 | -3.3 | 18.2 |
| Energy, minerals, and environmental health | 96 | 91 | 107 | -5.0 | 17.7 |
| Natural hazards | 106 | 103 | 119 | -2.7 | 15.2 |
| Water resources | 120 | 117 | 127 | -2.9 | 8.8 |
| R&D | 2,147 | 2,034 | 2,425 | -5.3 | 19.2 |
| Conservation and land management (302) | 428 | 390 | 477 | -9.0 | 22.4 |
| Department of the Interior ^a | 106 | 83 | 140 | -22.1 | 69.6 |
| U.S. Department of Agriculture | 322 | 307 | 337 | -4.6 | 9.7 |
| Forest Service | 322 | 307 | 337 | -4.6 | 9.7 |
| Pollution control and abatement (304) | 564 | 528 | 556 | -6.4 | 5.3 |
| Environmental Protection Agency | 563 | 527 | 555 | -6.4 | 5.3 |
| Oil spill response research | 1 | 1 | 1 | -43.6 | 77.2 |
| Science and technology | 539 | 504 | 532 | -6.4 | 5.5 |
| Superfund | 23 | 22 | 22 | -4.7 | 0.4 |
| U.S. Coast Guard (DHS) | 1 | 1 | 1 | 0.0 | 0.0 |
| Recreational resources (303) | 26 | 29 | 34 | 11.3 | 17.5 |
| National Park Service (DOI) | 26 | 29 | 34 | 11.3 | 17.5 |
| Water resources (301) | 23 | 23 | 28 | -1.8 | 24.0 |
| Army Corps of Engineers (DOD) | 11 | 10 | 11 | -5.0 | 5.3 |
| Bureau of Reclamation (DOI) | 12 | 12 | 17 | 1.1 | 40.2 |
| Other natural resources (306) | 1,106 | 1,065 | 1,330 | -3.7 | 24.9 |
| National Oceanic and Atmospheric Administration (DOC) | 433 | 422 | 570 | -2.6 | 34.9 |

TABLE 11. Federal budget authority for Natural resources and environment (300) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---|----------------|---------------------|------------------|-----------------------|-----------------------|
| National Environmental Satellite, Data, and Information Service | 27 | 27 | 27 | 0.3 | 1.1 |
| National Marine Fisheries Service | 54 | 51 | 51 | -4.2 | -0.1 |
| National Ocean Service | 62 | 60 | 83 | -3.6 | 38.9 |
| National Weather Service | 19 | 18 | 36 | -4.5 | 104.5 |
| Office of Oceanic and Atmospheric Research | 273 | 267 | 372 | -2.1 | 39.5 |
| Office of Marine and Aviation Operations | 0 | 0 | 0 | - | - |
| U.S. Geological Survey (DOI) ^b | 673 | 643 | 761 | -4.5 | 18.3 |
| Administration and enterprise information | 1 | * | * | -10.5 | 9.5 |
| Climate and land use change | 103 | 100 | 119 | -3.3 | 18.9 |
| Core science systems | 88 | 78 | 107 | -11.5 | 37.1 |
| Ecosystems | 158 | 153 | 181 | -3.3 | 18.2 |
| Energy, minerals, and environmental health | 96 | 91 | 107 | -5.0 | 17.7 |
| Natural hazards | 106 | 103 | 119 | -2.7 | 15.2 |
| Water resources | 120 | 117 | 127 | -2.9 | 8.8 |

* = less than \$0.5 million.

DHS = Department of Homeland Security; DOC = Department of Commerce; DOD = Department of Defense; DOI = Department of the Interior.

^a Includes Bureau of Land Management, Office of Surface Mining Reclamation and Enforcement, Fish and Wildlife Service, Bureau of Ocean Energy Management, and Bureau of Safety and Environmental Enforcement.

^b U.S. Geological Survey reorganized its divisions for FY 2012.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 12. Federal budget authority for Agriculture (350) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|--|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 2,005 | 1,850 | 2,183 | -7.7 | 18.0 |
| Agricultural research and services (352) | | | | | |
| Department of Agriculture | 2,005 | 1,850 | 2,183 | -7.7 | 18.0 |
| Agricultural Marketing Service | 0 | 1 | 1 | - | 0.0 |
| Agricultural Research Service | 1,125 | 1,048 | 1,303 | -6.8 | 24.3 |
| Animal and Plant Health Inspection Service | 39 | 29 | 39 | -26.5 | 36.0 |
| Economic Research Service | 78 | 72 | 79 | -8.1 | 10.2 |
| Federal Grain Inspection Service | 6 | 6 | 0 | -5.0 | -100.0 |
| Foreign Agricultural Service | 0 | 1 | 1 | - | 0.0 |
| National Agricultural Statistics Service | 7 | 7 | 7 | -5.0 | 5.3 |
| National Institute of Food and Agriculture | 750 | 687 | 753 | -8.4 | 9.6 |
| R&D | 1,920 | 1,771 | 1,932 | -7.8 | 9.1 |
| Agricultural research and services (352) | | | | | |
| Department of Agriculture | 1,920 | 1,771 | 1,932 | -7.8 | 9.1 |
| Agricultural Marketing Service | 0 | 1 | 0 | - | -100.0 |
| Agricultural Research Service | 1,040 | 969 | 1,053 | -6.8 | 8.6 |
| Animal and Plant Health Inspection Service | 39 | 29 | 39 | -26.5 | 36.0 |
| Economic Research Service | 78 | 72 | 79 | -8.1 | 10.2 |
| Federal Grain Inspection Service | 6 | 6 | 0 | -5.0 | -100.0 |
| Foreign Agricultural Service | 0 | 1 | 1 | - | 0.0 |
| National Agricultural Statistics Service | 7 | 7 | 7 | -5.0 | 5.3 |
| National Institute of Food and Agriculture | 750 | 687 | 753 | -8.4 | 9.6 |

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 13. Federal budget authority for Commerce and housing credit (370) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|--|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 698 | 725 | 1,966 | 3.9 | 171.0 |
| Other advancement of commerce (376) | | | | | |
| Department of Commerce | 681 | 708 | 1,949 | 4.0 | 175.2 |
| Bureau of the Census | 118 | 116 | 318 | -1.7 | 174.2 |
| National Institute of Standards and Technology | 557 | 588 | 1,626 | 5.5 | 176.7 |
| Construction of research facilities | 55 | 56 | 60 | 1.0 | 7.3 |
| Industrial technology services | 0 | 19 | 18 | - | -3.0 |
| Scientific and technical research and services | 502 | 513 | 618 | 2.3 | 20.4 |
| National manufacturing network ^a | na | na | 930 | - | - |
| National Oceanic and Atmospheric Administration | 1 | 0 | 0 | -100.0 | - |
| National Marine Fisheries Service | 1 | 0 | 0 | -100.0 | - |
| National Telecommunications and Information Administration | 5 | 5 | 5 | -8.6 | 9.4 |
| U.S. Postal Service | 17 | 16 | 15 | -5.0 | -7.1 |
| Department of the Treasury | na | 1 | 2 | - | 100.0 |
| R&D | 607 | 647 | 1,870 | 6.6 | 189.1 |
| Other advancement of commerce (376) | | | | | |
| Department of Commerce | 590 | 630 | 1,853 | 6.7 | 194.3 |
| Bureau of the Census | 118 | 116 | 318 | -1.7 | 174.2 |
| National Institute of Standards and Technology | 466 | 509 | 1,530 | 9.3 | 200.6 |
| Construction of research facilities | 0 | 0 | 0 | - | - |
| Industrial technology services | 0 | 19 | 18 | - | -3.0 |
| Scientific and technical research and services | 466 | 490 | 582 | 5.2 | 18.7 |
| National manufacturing network ^a | na | na | 930 | - | - |
| National Oceanic and Atmospheric Administration | 1 | 0 | 0 | -100.0 | - |
| National Marine Fisheries Service | 1 | 0 | 0 | -100.0 | - |
| National Telecommunications and Information Administration | 5 | 5 | 5 | -8.6 | 9.4 |
| U.S. Postal Service | 17 | 16 | 15 | -5.0 | -7.1 |
| Department of the Treasury | na | 1 | 2 | - | 100.0 |

na = not applicable.

^a Reflects proposed legislation for mandatory funding in FY 2014.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submission to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget office.

TABLE 14. Federal budget authority for Transportation (400) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|--|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 1,511 | 1,423 | 1,490 | -5.8 | 4.7 |
| Air transportation (402) | 931 | 895 | 871 | -3.9 | -2.6 |
| Federal Aviation Administration (DOT) | 367 | 348 | 341 | -5.0 | -2.2 |
| National Aeronautics and Space Administration | | | | | |
| Aeronautics research | 565 | 546 | 531 | -3.3 | -2.8 |
| Ground transportation (401) (DOT) | 528 | 485 | 569 | -8.1 | 17.3 |
| Federal Highway Administration | 406 | 369 | 380 | -9.0 | 2.9 |
| Federal Motor Carrier Safety Administration | 7 | 6 | 8 | -5.0 | 19.1 |
| Federal Railroad Administration | 40 | 38 | 91 | -5.0 | 140.8 |
| Federal Transit Administration | 7 | 6 | 17 | -5.0 | 165.7 |
| National Highway Traffic Safety Administration | 69 | 65 | 73 | -5.0 | 12.4 |
| Water transportation (403) | 27 | 20 | 20 | -26.1 | 0.3 |
| U.S. Coast Guard (DHS) | 27 | 20 | 20 | -26.1 | 0.3 |
| Other transportation (407) (DOT) ^a | 25 | 24 | 30 | -5.0 | 25.8 |
| R&D | 1,486 | 1,399 | 1,451 | -5.8 | 3.7 |
| Air transportation (402) | 909 | 873 | 852 | -3.9 | -2.4 |
| Federal Aviation Administration (DOT) | 344 | 327 | 322 | -5.0 | -1.6 |
| National Aeronautics and Space Administration | | | | | |
| Aeronautics research | 565 | 546 | 531 | -3.3 | -2.8 |
| Ground transportation (401) (DOT) | 526 | 483 | 549 | -8.1 | 13.7 |
| Federal Highway Administration | 406 | 369 | 380 | -9.0 | 2.9 |
| Federal Motor Carrier Safety Administration | 7 | 6 | 8 | -5.0 | 19.1 |
| Federal Railroad Administration | 37 | 35 | 71 | -5.0 | 100.2 |
| Federal Transit Administration | 7 | 6 | 17 | -5.0 | 165.7 |
| National Highway Traffic Safety Administration | 69 | 65 | 73 | -5.0 | 12.4 |
| Water transportation (403) | 27 | 20 | 20 | -26.1 | 0.3 |
| U.S. Coast Guard (DHS) | 27 | 20 | 20 | -26.1 | 0.3 |
| Other transportation (407) (DOT) ^a | 25 | 24 | 30 | -5.0 | 25.8 |

DHS = Department of Homeland Security; DOT = Department of Transportation.

^a Includes Office of the Secretary and Pipeline and Hazardous Materials Safety Administration.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 15. Federal budget authority for Community and regional development (450) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 58 | 63 | 93 | 8.6 | 47.6 |
| Department of Housing and Urban Development (451) | 58 | 55 | 80 | -5.2 | 45.5 |
| Department of the Interior (452) | na | na | 5 | - | - |
| Bureau of Indian Affairs and Bureau of Indian Education | na | na | 5 | - | - |
| Department of the Treasury (452) | na | 8 | 8 | - | 0.0 |
| R&D | 58 | 63 | 93 | 8.6 | 47.6 |
| Department of Housing and Urban Development (451) | 58 | 55 | 80 | -5.2 | 45.5 |
| Department of the Interior (452) | na | na | 5 | - | - |
| Bureau of Indian Affairs and Bureau of Indian Education | na | na | 5 | - | - |
| Department of the Treasury (452) | na | 8 | 8 | - | 0.0 |

na = not applicable.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submission to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget office.

TABLE 16. Federal budget authority for Education, training, employment, and social services (500) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 640 | 621 | 617 | -3.0 | -0.7 |
| Research and general education aids (501, 502, 503) | 565 | 538 | 527 | -4.9 | -2.0 |
| Department of Education programs | 322 | 305 | 277 | -5.2 | -9.3 |
| Smithsonian Institution programs | 243 | 232 | 250 | -4.4 | 7.6 |
| Social services (506) | 75 | 83 | 90 | 11.3 | 7.8 |
| Administration for children and families (HHS) | na | 12 | 15 | - | 21.3 |
| Rehabilitation services (ED) | 75 | 71 | 75 | -5.2 | 5.5 |
| R&D | 597 | 580 | 581 | -2.9 | 0.2 |
| Research and general education aids (501, 502, 503) | 522 | 496 | 491 | -4.9 | -1.1 |
| Department of Education programs | 322 | 305 | 277 | -5.2 | -9.3 |
| Smithsonian Institution programs | 200 | 191 | 214 | -4.4 | 11.9 |
| Social services (506) | 75 | 83 | 90 | 11.3 | 7.8 |
| Administration for children and families (HHS) | na | 12 | 15 | - | 21.3 |
| Rehabilitation services (ED) | 75 | 71 | 75 | -5.2 | 5.5 |

na = not applicable.

ED = Department of Education; HHS = Department of Health and Human Services.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 17. Federal budget authority for Health (550) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|--|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 31,411 | 30,056 | 32,468 | -4.9 | 8.7 |
| Consumer and occupational health and safety (554) | 412 | 394 | 416 | -4.3 | 5.5 |
| Consumer Product Safety Commission | 2 | 2 | 2 | -5.0 | 5.3 |
| Food and Drug Administration (HHS) | 406 | 389 | 410 | -4.3 | 5.5 |
| Occupational Safety and Health Administration (DOL) | 4 | 4 | 4 | -5.2 | 5.5 |
| Health care services and health research and training (551, 552) | 30,999 | 29,662 | 32,052 | -4.9 | 8.7 |
| Department of Health and Human Services | 30,879 | 29,365 | 31,554 | -5.5 | 8.1 |
| Agency for Healthcare Research and Quality | 394 | 374 | 349 | -5.2 | -6.6 |
| Centers for Disease Control and Prevention | 408 | 387 | 529 | -5.2 | 36.7 |
| Departmental management (other) | 55 | 52 | 150 | -6.0 | 190.1 |
| Health Resources and Services Administration | 12 | 11 | 36 | -5.2 | 216.5 |
| National Institutes of Health (NIH) ^b | 30,010 | 28,542 | 30,490 | -5.5 | 7.5 |
| Patient-Centered Outcomes Research Trust Fund ^a | 120 | 296 | 498 | 146.7 | 68.2 |
| R&D | 31,243 | 29,896 | 32,299 | -4.9 | 8.7 |
| Consumer and occupational health and safety (554) | 377 | 361 | 381 | -4.3 | 5.6 |
| Consumer Product Safety Commission | 2 | 2 | 2 | -5.0 | 5.3 |
| Food and Drug Administration (HHS) | 371 | 355 | 375 | -4.3 | 5.6 |
| Occupational Safety and Health Administration (DOL) | 4 | 4 | 4 | -5.2 | 5.5 |
| Health care services and health research and training (551, 552) | 30,866 | 29,535 | 31,918 | -4.9 | 8.7 |
| Department of Health and Human Services | 30,746 | 29,239 | 31,420 | -5.5 | 8.1 |
| Agency for Healthcare Research and Quality | 394 | 374 | 349 | -5.2 | -6.6 |
| Centers for Disease Control and Prevention | 408 | 387 | 529 | -5.2 | 36.7 |
| Departmental management (other) | 55 | 52 | 150 | -6.0 | 190.1 |
| Health Resources and Services Administration | 12 | 11 | 36 | -5.2 | 216.5 |
| National Institutes of Health (NIH) ^b | 29,877 | 28,415 | 30,356 | -5.5 | 7.5 |
| Patient-Centered Outcomes Research Trust Fund ^a | 120 | 296 | 498 | 146.7 | 68.2 |

DOL = Department of Labor; HHS = Department of Health and Human Services.

^a Established by Patient Protection and Affordable Care Act (P.L. 111-148) to prioritize and fund comparative effectiveness research. Funds are managed by private, nonprofit Patient-Centered Outcomes Research Institute.

^b NIH totals include budget authority for Cooperative Research and Development Agreements.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 18. National Institutes of Health, federal budget authority for R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Organization and program (by FY 2011 rank order) | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 29,994 | 28,525 | 30,473 | -4.9 | 6.8 |
| National Cancer Institute | 5,001 | 4,756 | 5,059 | -4.9 | 6.4 |
| National Institute of Allergy and Infectious Diseases | 4,426 | 4,209 | 4,516 | -4.9 | 7.3 |
| National Heart, Lung, and Blood Institute | 2,978 | 2,831 | 2,999 | -4.9 | 5.9 |
| National Institute of Diabetes and Digestive and Kidney Diseases | 1,884 | 1,790 | 1,898 | -5.0 | 6.0 |
| National Institute of General Medical Sciences | 2,222 | 2,115 | 2,192 | -4.8 | 3.6 |
| National Institute of Neurological Disorders and Stroke | 1,591 | 1,513 | 1,610 | -4.9 | 6.4 |
| National Institute of Mental Health | 1,435 | 1,364 | 1,421 | -4.9 | 4.2 |
| National Institute of Child Health and Human Development | 1,285 | 1,222 | 1,304 | -4.9 | 6.7 |
| National Center for Advancing Translation Sciences | 563 | 535 | 654 | -4.9 | 22.1 |
| Office of the Director | 1,434 | 1,359 | 1,442 | -5.3 | 6.2 |
| National Institute on Aging | 1,068 | 1,025 | 1,167 | -4.0 | 13.8 |
| National Institute on Drug Abuse | 1,027 | 977 | 1,046 | -4.9 | 7.1 |
| National Institute of Environmental Health Sciences ^a | 744 | 708 | 751 | -4.9 | 6.1 |
| National Eye Institute | 691 | 657 | 688 | -4.9 | 4.7 |
| National Institute of Arthritis and Musculoskeletal and Skin Diseases | 519 | 494 | 524 | -4.9 | 6.2 |
| National Human Genome Research Institute | 504 | 477 | 507 | -5.2 | 6.2 |
| National Institute on Alcohol Abuse and Alcoholism | 446 | 424 | 451 | -4.9 | 6.3 |
| National Institute on Deafness and Other Communication Disorders | 402 | 383 | 409 | -4.8 | 7.0 |
| National Institute of Dental and Craniofacial Research | 399 | 379 | 400 | -4.9 | 5.5 |
| National Library of Medicine | 337 | 321 | 382 | -4.9 | 19.2 |
| National Institute of Biomedical Imaging and Bioengineering | 308 | 293 | 309 | -4.9 | 5.4 |
| National Center for Minority Health and Health Disparities | 276 | 263 | 283 | -4.9 | 7.9 |
| National Institute of Nursing Research | 134 | 128 | 136 | -4.8 | 6.3 |
| National Center for Complementary and Alternative Medicine | 125 | 118 | 125 | -5.9 | 6.1 |
| John E. Fogarty International Center | 70 | 66 | 73 | -4.9 | 10.2 |
| Buildings and facilities | 125 | 119 | 126 | -5.0 | 5.9 |
| R&D | 29,861 | 28,398 | 30,339 | -4.9 | 6.8 |
| National Cancer Institute | 4,993 | 4,748 | 5,051 | -4.9 | 6.4 |
| National Institute of Allergy and Infectious Diseases | 4,426 | 4,209 | 4,516 | -4.9 | 7.3 |
| National Heart, Lung, and Blood Institute | 2,978 | 2,831 | 2,999 | -4.9 | 5.9 |
| National Institute of Diabetes and Digestive and Kidney Diseases | 1,884 | 1,790 | 1,898 | -5.0 | 6.0 |
| National Institute of General Medical Sciences | 2,222 | 2,115 | 2,192 | -4.8 | 3.6 |
| National Institute of Neurological Disorders and Stroke | 1,591 | 1,513 | 1,610 | -4.9 | 6.4 |
| National Institute of Mental Health | 1,435 | 1,364 | 1,421 | -4.9 | 4.2 |
| National Institute of Child Health and Human Development | 1,285 | 1,222 | 1,304 | -4.9 | 6.7 |
| National Center for Advancing Translation Sciences | 563 | 535 | 654 | -4.9 | 22.1 |
| Office of the Director | 1,434 | 1,359 | 1,442 | -5.3 | 6.2 |
| National Institute on Aging | 1,068 | 1,025 | 1,167 | -4.0 | 13.8 |
| National Institute on Drug Abuse | 1,027 | 977 | 1,046 | -4.9 | 7.1 |
| National Institute of Environmental Health Sciences ^a | 744 | 708 | 751 | -4.9 | 6.1 |
| National Eye Institute | 691 | 657 | 688 | -4.9 | 4.7 |
| National Institute of Arthritis and Musculoskeletal and Skin Diseases | 519 | 494 | 524 | -4.9 | 6.2 |
| National Human Genome Research Institute | 504 | 477 | 507 | -5.2 | 6.2 |
| National Institute on Alcohol Abuse and Alcoholism | 446 | 424 | 451 | -4.9 | 6.3 |
| National Institute on Deafness and Other Communication Disorders | 402 | 383 | 409 | -4.8 | 7.0 |
| National Institute of Dental and Craniofacial Research | 399 | 379 | 400 | -4.9 | 5.5 |
| National Library of Medicine | 337 | 321 | 382 | -4.9 | 19.2 |
| National Institute of Biomedical Imaging and Bioengineering | 308 | 293 | 309 | -4.9 | 5.4 |
| National Center for Minority Health and Health Disparities | 276 | 263 | 283 | -4.9 | 7.9 |

TABLE 18. National Institutes of Health, federal budget authority for R&D and R&D plant: FYs 2012–14

(Millions of dollars)

| Organization and program (by FY 2011 rank order) | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|--|----------------|---------------------|------------------|-----------------------|-----------------------|
| National Institute of Nursing Research | 134 | 128 | 136 | -4.8 | 6.3 |
| National Center for Complementary and Alternative Medicine | 125 | 118 | 125 | -5.9 | 6.1 |
| John E. Fogarty International Center | 70 | 66 | 73 | -4.9 | 10.2 |

^a Includes funding from Superfund-related transfers and appropriations.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data. Institute totals exclude non-R&D components of institute budgets. Totals reported here do not include budget authority for Cooperative Research and Development Agreements.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 19. Federal budget authority for Medicare (570) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 80 | 76 | 57 | -5.5 | -24.6 |
| Department of Health and Human Services (571) | | | | | |
| Centers for Medicare and Medicaid Services | 80 | 76 | 57 | -5.5 | -24.6 |
| R&D | 80 | 76 | 57 | -5.5 | -24.6 |
| Department of Health and Human Services (571) | | | | | |
| Centers for Medicare and Medicaid Services | 80 | 76 | 57 | -5.5 | -24.6 |

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 20. Federal budget authority for Income security (600) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 18 | 15 | 64 | -19.0 | 338.8 |
| Department of Health and Human Services (609) | | | | | |
| Administration for Children and Families | 10 | 7 | 10 | -30.0 | 42.9 |
| Social Security Administration (609) | 8 | 8 | 54 | -5.2 | 612.0 |
| R&D | 18 | 15 | 64 | -19.0 | 338.8 |
| Department of Health and Human Services (609) | | | | | |
| Administration for Children and Families | 10 | 7 | 10 | -30.0 | 42.9 |
| Social Security Administration (609) | 8 | 8 | 54 | -5.2 | 612.0 |

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 21. Federal budget authority for Veterans benefits and services (700) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|---------------------------------------|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 1,160 | 1,130 | 1,172 | -2.6 | 3.7 |
| Department of Veterans Affairs | | | | | |
| Medical and Prosthetic Research (703) | 580 | 565 | 586 | -2.6 | 3.7 |
| Medical Services (703) | 580 | 565 | 586 | -2.6 | 3.7 |
| R&D | 1,160 | 1,130 | 1,172 | -2.6 | 3.7 |
| Department of Veterans Affairs | | | | | |
| Medical and Prosthetic Research (703) | 580 | 565 | 586 | -2.6 | 3.7 |
| Medical Services (703) | 580 | 565 | 586 | -2.6 | 3.7 |

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data. Includes administration and operating expenses related to Department of Veterans Affairs research.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 22. Federal budget authority for Administration of justice (750) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|--|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 143 | 812 | 1,408 | 468.0 | 73.3 |
| Department of Homeland Security (751) ^a | 84 | 751 | 1,352 | 794.4 | 80.0 |
| Department of Justice | 59 | 61 | 56 | 3.3 | -8.1 |
| Federal Prison System (753) | 11 | 11 | 11 | -3.0 | 3.0 |
| Office of Justice Programs (754) | 48 | 50 | 45 | 4.8 | -10.5 |
| R&D | 143 | 643 | 630 | 349.6 | -2.0 |
| Department of Homeland Security (751) ^a | 84 | 582 | 574 | 592.9 | -1.4 |
| Department of Justice | 59 | 61 | 56 | 3.3 | -8.1 |
| Federal Prison System (753) | 11 | 11 | 11 | -3.0 | 3.0 |
| Office of Justice Programs (754) | 48 | 50 | 45 | 4.8 | -10.5 |

^a Office of Management and Budget (OMB) reclassified Department of Homeland Security (DHS) Science and Technology Directorate as subfunction 751 (Justice) beginning in FY 2013. In prior years, this DHS R&D was classified as subfunction 251 (General science and basic research), and subfunction 751 included only R&D in Domestic Nuclear Detection Office and Customs and Border Patrol.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and OMB analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 23. Federal budget authority for General Government (800) R&D and R&D plant: FYs 2012–14
(Millions of dollars)

| Budget function and agency | 2012 actual | 2013 preliminary | 2014 proposed | 2012–13 (% change) | 2013–14 (% change) |
|--|----------------|---------------------|------------------|-----------------------|-----------------------|
| R&D and R&D plant | 1 | 1 | na | 0.0 | - |
| National Archives and Records Administration | 1 | 1 | na | 0.0 | - |
| R&D | 1 | 1 | na | 0.0 | - |
| National Archives and Records Administration | 1 | 1 | na | 0.0 | - |

na = not applicable.

NOTES: Detail may not add to total because of rounding. Percentage change calculated on unrounded data.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submission to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget office.

TABLE 24. Federal funding for R&D and basic research, by budget function: FYs 1955–2014
(Millions of dollars)

| Fiscal year | Budget functions | National defense (050) | International affairs (150) | General science and basic research (251) | Space flight, research, and supporting activities (252) | Energy (270) | Natural resources and environment (300) | Agriculture (350) | Commerce and housing credit (370) | Transportation (400) | Community and regional development (450) | Education, training, employment, and social services (500) | Health (550) | Medicare (570) | Income security (600) | Veterans benefits and services (700) | Administration of justice (750) | General government (800) | Other ^a |
|----------------------|------------------|------------------------|-----------------------------|--|---|--------------|---|-------------------|-----------------------------------|----------------------|--|--|--------------|----------------|-----------------------|--------------------------------------|---------------------------------|--------------------------|--------------------|
| All R&D ^b | | | | | | | | | | | | | | | | | | | |
| 1955 | 2,533 | 2,151 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 67 | na | NA | NA | NA | NA | 315 |
| 1956 | 2,988 | 2,535 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 83 | na | NA | NA | NA | NA | 370 |
| 1957 | 3,932 | 3,327 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 140 | na | NA | NA | NA | NA | 465 |
| 1958 | 4,570 | 3,801 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 177 | na | NA | NA | NA | NA | 592 |
| 1959 | 6,694 | 5,556 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 233 | na | NA | NA | NA | NA | 904 |
| 1960 | 7,552 | 6,107 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 305 | na | NA | NA | NA | NA | 1,140 |
| 1961 | 9,059 | 7,005 | NA | 137 | 777 | 373 | 73 | 125 | NA | 55 | NA | NA | 405 | na | NA | NA | NA | NA | 108 |
| 1962 | 10,290 | 7,238 | NA | 187 | 1,413 | 448 | 108 | 136 | NA | 101 | NA | NA | 551 | na | NA | NA | NA | NA | 107 |
| 1963 | 12,495 | 7,764 | NA | 246 | 2,812 | 515 | 120 | 146 | NA | 142 | NA | NA | 626 | na | NA | NA | NA | NA | 125 |
| 1964 | 14,225 | 7,829 | NA | 277 | 4,241 | 571 | 134 | 165 | NA | 122 | NA | NA | 728 | na | NA | NA | NA | NA | 160 |
| 1965 | 14,614 | 7,342 | NA | 304 | 4,887 | 585 | 159 | 195 | NA | 147 | NA | NA | 792 | na | NA | NA | NA | NA | 203 |
| 1966 | 15,320 | 7,536 | NA | 377 | 4,976 | 575 | 189 | 201 | NA | 251 | NA | NA | 900 | na | NA | NA | NA | NA | 315 |
| 1967 | 16,529 | 8,566 | 18 | 409 | 4,778 | 600 | 320 | 218 | 43 | 380 | 37 | 154 | 915 | na | 48 | 41 | * | 3 | na |
| 1968 | 15,921 | 8,275 | 17 | 437 | 4,304 | 657 | 331 | 217 | 48 | 304 | 44 | 166 | 1,021 | na | 50 | 45 | 1 | 5 | na |
| 1969 | 15,641 | 8,356 | 26 | 433 | 3,799 | 597 | 323 | 221 | 54 | 404 | 32 | 169 | 1,088 | na | 78 | 50 | 5 | 5 | na |
| 1970 | 15,339 | 7,981 | 32 | 452 | 3,606 | 574 | 340 | 238 | 79 | 535 | 47 | 164 | 1,084 | na | 136 | 59 | 9 | 6 | na |
| 1971 | 15,543 | 8,110 | 32 | 513 | 3,048 | 556 | 416 | 259 | 90 | 728 | 65 | 215 | 1,288 | na | 145 | 63 | 10 | 7 | na |
| 1972 | 16,496 | 8,902 | 29 | 625 | 2,932 | 574 | 479 | 294 | 50 | 558 | 66 | 235 | 1,547 | na | 106 | 69 | 23 | 8 | na |
| 1973 | 16,800 | 9,002 | 28 | 658 | 2,824 | 630 | 554 | 308 | 50 | 572 | 78 | 290 | 1,585 | na | 106 | 74 | 33 | 7 | na |
| 1974 | 17,410 | 9,016 | 24 | 749 | 2,702 | 759 | 516 | 313 | 51 | 693 | 82 | 236 | 2,069 | na | 71 | 85 | 35 | 9 | na |
| 1975 | 19,039 | 9,679 | 29 | 813 | 2,764 | 1,363 | 624 | 342 | 65 | 635 | 93 | 239 | 2,170 | na | 72 | 95 | 44 | 12 | na |
| 1976 | 20,780 | 10,430 | 42 | 858 | 3,130 | 1,649 | 683 | 383 | 69 | 631 | 109 | 255 | 2,351 | na | 48 | 98 | 35 | 12 | na |
| 1977 | 23,450 | 11,864 | 66 | 974 | 2,832 | 2,562 | 753 | 457 | 71 | 708 | 101 | 230 | 2,629 | na | 55 | 107 | 30 | 13 | na |
| 1978 | 25,976 | 12,899 | 57 | 1,050 | 2,939 | 3,134 | 904 | 501 | 77 | 768 | 92 | 345 | 2,968 | na | 67 | 111 | 44 | 20 | na |
| 1979 | 28,208 | 13,791 | 117 | 1,119 | 3,136 | 3,461 | 1,010 | 552 | 93 | 798 | 127 | 354 | 3,401 | na | 57 | 123 | 47 | 23 | na |
| 1980 | 29,739 | 14,946 | 125 | 1,233 | 2,738 | 3,603 | 999 | 585 | 101 | 887 | 119 | 468 | 3,694 | na | 47 | 126 | 45 | 22 | na |
| 1981 | 33,735 | 18,413 | 160 | 1,340 | 3,111 | 3,501 | 1,061 | 659 | 106 | 869 | 104 | 298 | 3,871 | na | 43 | 143 | 34 | 22 | na |
| 1982 | 36,115 | 22,070 | 165 | 1,359 | 2,584 | 3,012 | 965 | 693 | 104 | 791 | 63 | 228 | 3,869 | na | 32 | 139 | 31 | 10 | na |
| 1983 | 38,768 | 24,936 | 177 | 1,502 | 2,134 | 2,578 | 952 | 745 | 107 | 876 | 44 | 189 | 4,298 | na | 32 | 157 | 37 | 6 | na |
| 1984 | 44,214 | 29,287 | 192 | 1,676 | 2,300 | 2,581 | 963 | 762 | 110 | 1,040 | 46 | 200 | 4,779 | na | 26 | 218 | 24 | 8 | na |

TABLE 24. Federal funding for R&D and basic research, by budget function: FYs 1955–2014

(Millions of dollars)

| Fiscal year | Budget functions | National defense (050) | International affairs (150) | General science and basic research (251) | Space flight, research, and supporting activities (252) | Energy (270) | Natural resources and environment (300) | Agriculture (350) | Commerce and housing credit (370) | Transportation (400) | Community and regional development (450) | Education, training, employment, and social services (500) | Health (550) | Medicare (570) | Income security (600) | Veterans benefits and services (700) | Administration of justice (750) | General government (800) | Other ^a |
|-------------------|------------------|------------------------|-----------------------------|--|---|--------------|---|-------------------|-----------------------------------|----------------------|--|--|--------------|----------------|-----------------------|--------------------------------------|---------------------------------|--------------------------|--------------------|
| 1985 | 49,887 | 33,698 | 210 | 1,862 | 2,725 | 2,389 | 1,059 | 836 | 114 | 1,030 | 50 | 220 | 5,418 | na | 21 | 193 | 47 | 17 | na |
| 1986 | 53,249 | 36,926 | 211 | 1,873 | 2,894 | 2,286 | 1,062 | 815 | 111 | 917 | 88 | 248 | 5,565 | na | 14 | 183 | 41 | 14 | na |
| 1987 | 57,069 | 39,152 | 223 | 2,042 | 3,398 | 2,053 | 1,133 | 822 | 110 | 908 | 99 | 267 | 6,556 | na | 25 | 215 | 49 | 17 | na |
| 1988 | 59,106 | 40,099 | 224 | 2,160 | 3,683 | 2,126 | 1,160 | 882 | 122 | 896 | 108 | 285 | 7,076 | na | 23 | 195 | 51 | 17 | na |
| 1989 | 62,115 | 40,642 | 279 | 2,373 | 4,555 | 2,419 | 1,255 | 907 | 128 | 1,064 | 74 | 347 | 7,773 | na | 27 | 212 | 45 | 15 | na |
| 1990 | 63,781 | 39,925 | 375 | 2,410 | 5,765 | 2,726 | 1,386 | 950 | 140 | 1,045 | 67 | 374 | 8,308 | na | 33 | 216 | 44 | 17 | na |
| 1991 | 65,898 | 39,328 | 378 | 2,635 | 6,511 | 2,953 | 1,582 | 1,052 | 178 | 1,231 | 88 | 433 | 9,226 | na | 30 | 219 | 51 | 4 | na |
| 1992 | 68,398 | 40,083 | 371 | 2,659 | 6,744 | 3,099 | 1,688 | 1,155 | 192 | 1,523 | 127 | 365 | 10,055 | na | 37 | 245 | 51 | 4 | na |
| 1993 | 69,884 | 41,249 | 382 | 2,691 | 6,988 | 2,677 | 1,802 | 1,152 | 220 | 1,703 | 57 | 348 | 10,280 | na | 36 | 250 | 49 | * | na |
| 1994 | 68,331 | 37,764 | 254 | 2,712 | 7,414 | 2,873 | 2,062 | 1,193 | 380 | 1,888 | 68 | 373 | 10,993 | na | 45 | 265 | 46 | 0 | na |
| 1995 | 68,791 | 37,204 | 287 | 2,794 | 7,916 | 2,844 | 1,988 | 1,194 | 525 | 1,833 | 70 | 369 | 11,407 | na | 43 | 257 | 59 | 1 | na |
| 1996 | 69,049 | 37,801 | 252 | 2,846 | 7,844 | 2,521 | 1,802 | 1,176 | 432 | 1,795 | 50 | 331 | 11,867 | na | 16 | 259 | 56 | 2 | na |
| 1997 | 71,653 | 39,591 | 190 | 2,944 | 7,844 | 2,372 | 1,886 | 1,203 | 409 | 1,785 | 48 | 373 | 12,670 | na | 9 | 267 | 59 | 2 | na |
| 1998 | 73,569 | 39,823 | 163 | 4,360 | 8,198 | 948 | 1,855 | 1,249 | 398 | 1,833 | 42 | 444 | 13,576 | na | 18 | 587 | 72 | 2 | na |
| 1999 | 77,637 | 41,306 | 190 | 4,690 | 8,245 | 1,131 | 1,842 | 1,288 | 432 | 1,725 | 59 | 403 | 15,553 | na | 38 | 644 | 88 | 3 | na |
| 2000 | 78,664 | 42,580 | 200 | 4,977 | 5,363 | 996 | 1,999 | 1,426 | 406 | 1,636 | 46 | 418 | 17,869 | na | 25 | 645 | 73 | 6 | na |
| 2001 | 86,756 | 45,713 | 252 | 5,468 | 6,126 | 1,314 | 2,096 | 1,657 | 429 | 1,640 | 54 | 411 | 20,758 | na | 30 | 719 | 88 | 3 | na |
| 2002 | 97,624 | 53,016 | 279 | 5,753 | 6,270 | 1,327 | 2,160 | 1,606 | 467 | 1,838 | 50 | 411 | 23,560 | na | 37 | 756 | 91 | 3 | na |
| 2003 | 112,544 | 63,048 | 269 | 6,129 | 7,355 | 1,403 | 2,151 | 1,708 | 463 | 1,869 | 48 | 430 | 26,517 | na | 38 | 817 | 299 | 0 | na |
| 2004 | 121,867 | 69,593 | 264 | 6,466 | 7,612 | 1,343 | 2,168 | 1,750 | 454 | 1,863 | 47 | 459 | 28,251 | na | 47 | 866 | 684 | 0 | na |
| 2005 | 126,601 | 74,047 | 255 | 6,570 | 7,300 | 1,296 | 2,168 | 1,820 | 423 | 1,847 | 45 | 470 | 28,824 | na | 35 | 742 | 758 | 0 | na |
| 2006 | 131,624 | 78,037 | 255 | 6,691 | 8,204 | 1,195 | 2,120 | 1,869 | 390 | 1,711 | 55 | 495 | 28,797 | na | 27 | 769 | 1,008 | 0 | na |
| 2007 | 138,087 | 82,272 | 246 | 7,809 | 9,024 | 1,893 | 1,936 | 1,857 | 428 | 1,361 | 49 | 536 | 29,461 | na | 27 | 819 | 369 | 0 | na |
| 2008 | 140,113 | 84,713 | 255 | 8,234 | 8,323 | 1,896 | 2,106 | 1,864 | 450 | 1,394 | 50 | 497 | 29,063 | na | 27 | 886 | 355 | 0 | na |
| 2009 ^c | 156,009 | 85,166 | 255 | 11,840 | 6,891 | 3,318 | 2,245 | 1,935 | 618 | 1,440 | 62 | 479 | 40,389 | 30 | 63 | 943 | 335 | 0 | na |
| Non-ARRA | 140,903 | 84,866 | 255 | 8,885 | 6,205 | 2,014 | 2,171 | 1,935 | 507 | 1,336 | 62 | 469 | 30,827 | 30 | 63 | 943 | 335 | 0 | na |
| ARRA | 15,106 | 300 | 0 | 2,955 | 686 | 1,304 | 74 | 0 | 111 | 104 | 0 | 10 | 9,562 | 0 | 0 | 0 | 0 | 0 | na |
| 2010 | 146,596 | 86,517 | 194 | 9,280 | 8,232 | 2,455 | 2,237 | 2,043 | 550 | 1,496 | 109 | 535 | 31,488 | 36 | 77 | 1,034 | 313 | 0 | na |
| 2011 | 144,379 | 83,226 | 196 | 10,581 | 8,658 | 2,265 | 2,314 | 1,768 | 651 | 1,420 | 83 | 636 | 30,990 | 180 | 68 | 1,160 | 184 | 0 | na |
| 2012 | 141,450 | 79,559 | 269 | 9,304 | 10,661 | 2,197 | 2,147 | 1,920 | 607 | 1,486 | 58 | 597 | 31,243 | 80 | 18 | 1,160 | 143 | 1 | na |

TABLE 24. Federal funding for R&D and basic research, by budget function: FYs 1955–2014
(Millions of dollars)

| Fiscal year | Budget functions | National defense (050) | International affairs (150) | General science and basic research (251) | Space flight, research, and supporting activities (252) | Energy (270) | Natural resources and environment (300) | Agriculture (350) | Commerce and housing credit (370) | Transportation (400) | Community and regional development (450) | Education, training, employment, and social services (500) | Health (550) | Medicare (570) | Income security (600) | Veterans benefits and services (700) | Administration of justice (750) | General government (800) | Other ^a |
|------------------|------------------|------------------------|-----------------------------|--|---|--------------|---|-------------------|-----------------------------------|----------------------|--|--|--------------|----------------|-----------------------|--------------------------------------|---------------------------------|--------------------------|--------------------|
| 2013 preliminary | 131,354 | 71,800 | 256 | 8,658 | 10,443 | 1,943 | 2,034 | 1,771 | 647 | 1,399 | 63 | 580 | 29,896 | 76 | 15 | 1,130 | 643 | 1 | na |
| 2014 proposed | 141,129 | 74,394 | 259 | 9,764 | 10,951 | 3,186 | 2,425 | 1,932 | 1,870 | 1,451 | 93 | 581 | 32,299 | 57 | 64 | 1,172 | 630 | 0 | na |
| Basic research | | | | | | | | | | | | | | | | | | | |
| 1978 | 3,665 | 320 | * | 962 | 412 | 157 | 207 | 197 | 9 | 70 | 8 | 57 | 1,246 | 0 | 2 | 9 | 10 | 0 | na |
| 1979 | 4,108 | 365 | 0 | 1,026 | 440 | 172 | 131 | 222 | 10 | 75 | 8 | 59 | 1,579 | 0 | 1 | 10 | 10 | * | na |
| 1980 | 4,716 | 552 | 0 | 1,152 | 482 | 200 | 136 | 246 | 15 | 79 | 8 | 61 | 1,761 | 0 | 1 | 14 | 9 | * | na |
| 1981 | 5,107 | 610 | 12 | 1,256 | 445 | 220 | 131 | 281 | 17 | 89 | 5 | 66 | 1,951 | 0 | 3 | 15 | 5 | 3 | na |
| 1982 | 5,305 | 696 | 10 | 1,296 | 434 | 260 | 139 | 295 | 17 | 102 | 7 | 78 | 1,953 | 0 | 0 | 13 | 4 | 2 | na |
| 1983 | 6,247 | 788 | 10 | 1,439 | 501 | 320 | 156 | 326 | 19 | 117 | 6 | 70 | 2,475 | 0 | 0 | 14 | 4 | 3 | na |
| 1984 | 7,072 | 845 | 3 | 1,606 | 646 | 365 | 192 | 353 | 20 | 125 | 5 | 77 | 2,813 | 0 | 0 | 15 | 5 | 3 | na |
| 1985 | 7,810 | 856 | 4 | 1,779 | 498 | 428 | 206 | 406 | 23 | 255 | 6 | 86 | 3,243 | 0 | 0 | 15 | 4 | 4 | na |
| 1986 | 8,193 | 960 | 5 | 1,795 | 737 | 456 | 204 | 390 | 26 | 184 | 6 | 83 | 3,324 | 0 | 0 | 15 | 5 | 5 | na |
| 1987 | 9,021 | 900 | 3 | 1,942 | 843 | 511 | 206 | 397 | 26 | 231 | 4 | 78 | 3,851 | 0 | 0 | 17 | 8 | 4 | na |
| 1988 | 9,553 | 905 | 3 | 2,061 | 944 | 571 | 210 | 428 | 28 | 197 | 7 | 83 | 4,087 | 0 | 0 | 17 | 8 | 5 | na |
| 1989 | 10,648 | 965 | 3 | 2,265 | 1,099 | 703 | 331 | 433 | 29 | 287 | 3 | 92 | 4,413 | 0 | 0 | 16 | 7 | 3 | na |
| 1990 | 11,288 | 964 | 4 | 2,306 | 1,389 | 761 | 336 | 456 | 31 | 242 | 3 | 106 | 4,661 | 0 | 0 | 16 | 9 | 3 | na |
| 1991 | 12,405 | 1,188 | 6 | 2,526 | 1,479 | 878 | 389 | 486 | 39 | 246 | 10 | 115 | 5,021 | 0 | 0 | 16 | 6 | 0 | na |
| 1992 | 12,973 | 1,147 | 6 | 2,532 | 1,499 | 921 | 383 | 528 | 35 | 266 | 11 | 118 | 5,506 | 0 | 0 | 16 | 5 | 0 | na |
| 1993 | 13,440 | 1,323 | 8 | 2,553 | 1,588 | 917 | 376 | 553 | 34 | 238 | 10 | 121 | 5,700 | 0 | 0 | 16 | 5 | 0 | na |
| 1994 | 13,552 | 1,174 | 6 | 2,542 | 1,796 | 921 | 224 | 567 | 38 | 220 | 9 | 145 | 5,889 | 0 | 0 | 16 | 5 | 0 | na |
| 1995 | 13,772 | 1,181 | 0 | 2,622 | 1,614 | 930 | 187 | 565 | 35 | 389 | 3 | 153 | 6,068 | 0 | 0 | 16 | 9 | 0 | na |
| 1996 | 14,442 | 1,165 | 2 | 2,662 | 1,685 | 1,182 | 147 | 547 | 37 | 456 | 0 | 140 | 6,395 | 0 | 0 | 13 | 12 | 0 | na |
| 1997 | 14,961 | 1,090 | 2 | 2,753 | 1,653 | 1,288 | 153 | 548 | 34 | 420 | 0 | 142 | 6,852 | 0 | 0 | 14 | 13 | 0 | na |
| 1998 | 15,523 | 1,067 | 1 | 4,121 | 1,610 | 34 | 145 | 571 | 35 | 411 | 0 | 133 | 7,356 | 0 | 0 | 23 | 16 | 0 | na |
| 1999 | 17,433 | 1,110 | 0 | 4,464 | 1,667 | 36 | 142 | 602 | 41 | 358 | 0 | 99 | 8,634 | 0 | 0 | 263 | 18 | 0 | na |
| 2000 | 19,470 | 1,184 | 42 | 4,722 | 1,616 | 36 | 146 | 651 | 39 | 542 | 0 | 107 | 10,099 | 0 | 0 | 266 | 20 | 0 | na |
| 2001 | 21,376 | 1,303 | 50 | 5,187 | 1,695 | 40 | 215 | 749 | 50 | 17 | 0 | 112 | 11,642 | 0 | 0 | 289 | 27 | 0 | na |
| 2002 | 23,848 | 1,404 | 53 | 5,561 | 1,912 | 45 | 471 | 762 | 56 | 17 | 0 | 115 | 12,957 | 0 | 0 | 465 | 30 | 0 | na |
| 2003 | 25,323 | 1,409 | 18 | 5,907 | 2,206 | 40 | 185 | 824 | 53 | 23 | 1 | 125 | 14,162 | 0 | 0 | 327 | 42 | 0 | na |
| 2004 | 26,529 | 1,380 | 18 | 6,198 | 2,473 | 32 | 201 | 780 | 46 | 20 | 0 | 125 | 14,850 | 0 | 0 | 347 | 58 | 0 | na |
| 2005 | 27,678 | 1,508 | 18 | 6,238 | 2,486 | 31 | 195 | 789 | 53 | 65 | 0 | 130 | 15,826 | 0 | 0 | 297 | 42 | 0 | na |

TABLE 24. Federal funding for R&D and basic research, by budget function: FYs 1955–2014
(Millions of dollars)

| Fiscal year | Budget functions | National defense (050) | International affairs (150) | General science and basic research (251) | Space flight, research, and supporting activities (252) | Energy (270) | Natural resources and environment (300) | Agriculture (350) | Commerce and housing credit (370) | Transportation (400) | Community and regional development (450) | Education, training, employment, and social services (500) | Health (550) | Medicare (570) | Income security (600) | Veterans benefits and services (700) | Administration of justice (750) | General government (800) | Other ^a |
|-------------------|------------------|------------------------|-----------------------------|--|---|--------------|---|-------------------|-----------------------------------|----------------------|--|--|--------------|----------------|-----------------------|--------------------------------------|---------------------------------|--------------------------|--------------------|
| 2006 | | 27,336 | 1,490 | 18 | 6,406 | 2,299 | 8 | 195 | 805 | 66 | 0 | 131 | 15,532 | 0 | 0 | 318 | 68 | 0 | na |
| 2007 | | 28,166 | 1,533 | 18 | 6,887 | 2,318 | 7 | 260 | 821 | 92 | 2 | 149 | 15,637 | 0 | 0 | 335 | 106 | 0 | na |
| 2008 | | 28,740 | 1,631 | 18 | 7,260 | 2,183 | 16 | 210 | 790 | 98 | 0 | 146 | 15,909 | 0 | 0 | 354 | 125 | 0 | na |
| 2009 ^c | | 36,400 | 1,772 | 18 | 10,727 | 932 | 28 | 219 | 799 | 152 | 0 | 155 | 21,108 | 0 | 0 | 375 | 115 | 0 | na |
| | Non-ARRA | 28,161 | 1,769 | 18 | 7,913 | 900 | 28 | 219 | 799 | 112 | 0 | 145 | 15,767 | 0 | 0 | 375 | 115 | 0 | na |
| | ARRA | 8,240 | 3 | 0 | 2,814 | 32 | 0 | 0 | 40 | 0 | 0 | 10 | 5,341 | 0 | 0 | 0 | 0 | 0 | na |
| 2010 | | 29,614 | 1,849 | 0 | 8,578 | 1,109 | 57 | 223 | 881 | 131 | 0 | 174 | 16,125 | 0 | 0 | 413 | 74 | 0 | na |
| 2011 | | 29,888 | 1,940 | 0 | 8,738 | 1,199 | 47 | 218 | 823 | 154 | 0 | 207 | 16,002 | 0 | 0 | 438 | 122 | 0 | na |
| 2012 | | 31,846 | 2,066 | 0 | 8,491 | 3,181 | 57 | 135 | 847 | 163 | 0 | 206 | 16,196 | 0 | 0 | 470 | 33 | 0 | na |
| 2013 preliminary | | 30,238 | 2,020 | 0 | 8,154 | 2,918 | 16 | 126 | 763 | 183 | 0 | 197 | 15,306 | 0 | 0 | 458 | 90 | 0 | na |
| 2014 proposed | | 33,175 | 2,223 | 0 | 9,155 | 3,656 | 18 | 149 | 807 | 217 | 0 | 221 | 16,182 | 0 | 0 | 478 | 61 | 0 | na |

* = less than \$500,000. na = not applicable. NA = not available; data were not collected for all budget functions in all years.

ARRA = American Recovery and Reinvestment Act of 2009.

^a Includes amounts for all functions for which data were not explicitly collected.

^b Data for 1955–77 are obligations; data for 1978–2013 are budget authority.

^c For total FY 2009, sum FY 2009 non-ARRA and FY 2009 ARRA funds.

NOTES: Detail may not add to total because of rounding. In FY 2009 the National Aeronautics and Space Administration (NASA) adjusted its R&D reporting to more closely match survey data reported to the National Science Foundation. In FY 2007 the Department of Homeland Security (DHS) changed its R&D portfolio to reclassify funding in National defense and most Administration of justice as General science and basic research; in FY 2013 this was reclassified back as Administration of justice. In FY 2004 DHS changed its R&D portfolio to reclassify funding in General science and basic research and in Agriculture as Administration of justice. In FY 2000 NASA transferred funding for International space station program from R&D to R&D plant; the change is reflected in the budget authority for Space flight, research, and supporting activities. In FY 2000 the National Institutes of Health in the Department of Health and Human Services classified all of its previous development activities as basic research or applied research, with resulting increase in Health basic research. In FY 1998 many Department of Energy programs were reclassified from Energy to General science and basic research. In FY 1998 the Department of Veterans Affairs began reporting medical care support funds as a part of its total research budgetary resources; change is reflected in budget authority for Veteran benefits and services.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Data from 1955–94 are from agencies' submissions to OMB, Circular No. A-11, Exhibit 44A, "Research and Development Activities," and from supplemental data obtained from agencies' budget offices. Data from 1995–2013 are from agencies' submissions to OMB per MAX Schedule C, budget justification documents, and supplemental data obtained from agencies' budget offices.

TABLE 25. Federal funding for R&D for national defense and civilian functions: FYs 1955–2014

| Fiscal year | Total | National defense | Civilian functions | Total | National defense | Civilian functions |
|-----------------|---------|------------------|--------------------|-------|------------------|--------------------|
| | | | | | | |
| R&D obligations | | | | | | |
| 1955 | 2,533 | 2,151 | 382 | 100.0 | 84.9 | 15.1 |
| 1956 | 2,988 | 2,535 | 453 | 100.0 | 84.8 | 15.2 |
| 1957 | 3,932 | 3,327 | 605 | 100.0 | 84.6 | 15.4 |
| 1958 | 4,570 | 3,801 | 769 | 100.0 | 83.2 | 16.8 |
| 1959 | 6,694 | 5,556 | 1,138 | 100.0 | 83.0 | 17.0 |
| 1960 | 7,552 | 6,107 | 1,445 | 100.0 | 80.9 | 19.1 |
| 1961 | 9,059 | 7,005 | 2,054 | 100.0 | 77.3 | 22.7 |
| 1962 | 10,290 | 7,238 | 3,052 | 100.0 | 70.3 | 29.7 |
| 1963 | 12,495 | 7,764 | 4,731 | 100.0 | 62.1 | 37.9 |
| 1964 | 14,225 | 7,829 | 6,396 | 100.0 | 55.0 | 45.0 |
| 1965 | 14,614 | 7,342 | 7,272 | 100.0 | 50.2 | 49.8 |
| 1966 | 15,320 | 7,536 | 7,784 | 100.0 | 49.2 | 50.8 |
| 1967 | 16,529 | 8,566 | 7,963 | 100.0 | 51.8 | 48.2 |
| 1968 | 15,921 | 8,275 | 7,646 | 100.0 | 52.0 | 48.0 |
| 1969 | 15,641 | 8,356 | 7,285 | 100.0 | 53.4 | 46.6 |
| 1970 | 15,339 | 7,981 | 7,358 | 100.0 | 52.0 | 48.0 |
| 1971 | 15,543 | 8,110 | 7,433 | 100.0 | 52.2 | 47.8 |
| 1972 | 16,496 | 8,902 | 7,594 | 100.0 | 54.0 | 46.0 |
| 1973 | 16,800 | 9,002 | 7,798 | 100.0 | 53.6 | 46.4 |
| 1974 | 17,410 | 9,016 | 8,394 | 100.0 | 51.8 | 48.2 |
| 1975 | 19,039 | 9,679 | 9,360 | 100.0 | 50.8 | 49.2 |
| 1976 | 20,780 | 10,430 | 10,350 | 100.0 | 50.2 | 49.8 |
| 1977 | 23,450 | 11,864 | 11,586 | 100.0 | 50.6 | 49.4 |
| R&D authority | | | | | | |
| 1978 | 25,976 | 12,899 | 13,077 | 100.0 | 49.7 | 50.3 |
| 1979 | 28,208 | 13,791 | 14,417 | 100.0 | 48.9 | 51.1 |
| 1980 | 29,739 | 14,946 | 14,793 | 100.0 | 50.3 | 49.7 |
| 1981 | 33,735 | 18,413 | 15,322 | 100.0 | 54.6 | 45.4 |
| 1982 | 36,115 | 22,070 | 14,045 | 100.0 | 61.1 | 38.9 |
| 1983 | 38,768 | 24,936 | 13,832 | 100.0 | 64.3 | 35.7 |
| 1984 | 44,214 | 29,287 | 14,927 | 100.0 | 66.2 | 33.8 |
| 1985 | 49,887 | 33,698 | 16,189 | 100.0 | 67.5 | 32.5 |
| 1986 | 53,249 | 36,926 | 16,323 | 100.0 | 69.3 | 30.7 |
| 1987 | 57,069 | 39,152 | 17,917 | 100.0 | 68.6 | 31.4 |
| 1988 | 59,106 | 40,099 | 19,007 | 100.0 | 67.8 | 32.2 |
| 1989 | 62,115 | 40,642 | 21,473 | 100.0 | 65.5 | 34.5 |
| 1990 | 63,781 | 39,925 | 23,856 | 100.0 | 62.6 | 37.4 |
| 1991 | 65,898 | 39,328 | 26,570 | 100.0 | 59.7 | 40.3 |
| 1992 | 68,398 | 40,083 | 28,315 | 100.0 | 58.6 | 41.4 |
| 1993 | 69,884 | 41,249 | 28,635 | 100.0 | 59.0 | 41.0 |
| 1994 | 68,331 | 37,764 | 30,566 | 100.0 | 55.3 | 44.7 |
| 1995 | 68,791 | 37,204 | 31,587 | 100.0 | 54.1 | 45.9 |
| 1996 | 69,049 | 37,801 | 31,248 | 100.0 | 54.7 | 45.3 |
| 1997 | 71,653 | 39,591 | 32,062 | 100.0 | 55.3 | 44.7 |
| 1998 | 73,569 | 39,823 | 33,746 | 100.0 | 54.1 | 45.9 |
| 1999 | 77,637 | 41,306 | 36,332 | 100.0 | 53.2 | 46.8 |
| 2000 | 78,664 | 42,580 | 36,084 | 100.0 | 54.1 | 45.9 |
| 2001 | 86,756 | 45,713 | 41,043 | 100.0 | 52.7 | 47.3 |
| 2002 | 97,624 | 53,016 | 44,608 | 100.0 | 54.3 | 45.7 |
| 2003 | 112,544 | 63,048 | 49,495 | 100.0 | 56.0 | 44.0 |
| 2004 | 121,867 | 69,593 | 52,274 | 100.0 | 57.1 | 42.9 |
| 2005 | 126,601 | 74,047 | 52,554 | 100.0 | 58.5 | 41.5 |
| 2006 | 131,624 | 78,037 | 53,586 | 100.0 | 59.3 | 40.7 |

TABLE 25. Federal funding for R&D for national defense and civilian functions: FYs 1955–2014

| Fiscal year | Current \$millions | | | % distribution | | |
|-------------------|--------------------|------------------|--------------------|----------------|------------------|--------------------|
| | Total | National defense | Civilian functions | Total | National defense | Civilian functions |
| 2007 | 138,087 | 82,272 | 55,815 | 100.0 | 59.6 | 40.4 |
| 2008 | 140,113 | 84,713 | 55,400 | 100.0 | 60.5 | 39.5 |
| 2009 ^a | 156,009 | 85,166 | 70,843 | 100.0 | 54.6 | 45.4 |
| Non-ARRA | 140,903 | 84,866 | 56,037 | 100.0 | 60.2 | 39.8 |
| ARRA | 15,106 | 300 | 14,806 | 100.0 | 2.0 | 98.0 |
| 2010 | 146,596 | 86,517 | 60,079 | 100.0 | 59.0 | 41.0 |
| 2011 | 144,379 | 83,226 | 61,154 | 100.0 | 57.6 | 42.4 |
| 2012 | 141,450 | 79,559 | 61,891 | 100.0 | 56.2 | 43.8 |
| 2013 preliminary | 131,354 | 71,800 | 59,554 | 100.0 | 54.7 | 45.3 |
| 2014 proposed | 141,129 | 74,394 | 66,735 | 100.0 | 52.7 | 47.3 |

ARRA = American Recovery and Reinvestment Act of 2009.

^a For total FY 2009, sum FY 2009 non-ARRA and FY 2009 ARRA funds.

NOTES: National defense function includes Department of Defense military activities and Department of Energy atomic energy defense program; years also include defense-related R&D in Department of Homeland Security and Department of Justice. Civilian functions include all other federally funded R&D activities.

Agency estimates of final appropriations for FY 2013 were unavailable for most agencies at the time of table publication. The FY 2013 figures are estimates based on appropriations, the President's request, and the Office of Management and Budget (OMB) analyses of the Budget Control Act.

SOURCES: Agencies' submissions to OMB per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

APPENDIX A. Agency and budget function crosswalk

| Agency | Budget function | | | | | | | | | | | | | | | | |
|---|------------------------|-----------------------------|--|---|--------------|---|-------------------|-----------------------------------|----------------------|--|--|--------------|----------------|-----------------------|--------------------------------------|---------------------------------|--------------------------|
| | National defense (050) | International affairs (150) | General science and basic research (251) | Space flight, research, and supporting activities (252) | Energy (270) | Natural resources and environment (300) | Agriculture (350) | Commerce and housing credit (370) | Transportation (400) | Community and regional development (450) | Education, training, employment, and social services (500) | Health (550) | Medicare (570) | Income security (600) | Veterans benefits and services (700) | Administration of justice (750) | General government (800) |
| Agency for International Development | | ● | | | | | | | | | | | | | | | |
| Army Corps of Engineers (Civil) | | | | | | ● | | | | | | | | | | | |
| Consumer Product Safety Commission | | | | | | | | | | | | ● | | | | | |
| Department of Agriculture | | | | | ● | ● | ● | | | | | | | | | | |
| Department of Commerce | | | | | | ● | ● | | | | | | | | | | |
| Department of Defense (Military) | ● | | | | | | | | | | | | | | | | |
| Department of Education | | | | | | | | | | ● | | | | | | | |
| Department of Energy | ● | | ● | | ● | | | | | | | | | | | | |
| Department of Health and Human Services | | | | | | | | | | ● | ● | ● | ● | | | | |
| Department of Homeland Security | | | ● | | | ● | | | ● | | | | | | | ● | |
| Department of Housing and Urban Development | | | | | | | | | | ● | | | | | | | |
| Department of the Interior | | | | | | ● | | | | ● | | | | | | | |
| Department of Justice | ● | | | | | | | | | | | | | | | ● | |
| Department of Labor | | | | | | | | | | | ● | | | | | | |
| Department of State | | ● | | | | | | | | | | | | | | | |
| Department of the Treasury | | | | | | | | ● | | ● | | | | | | | |
| Department of Transportation | | | | | | | | | ● | | | | | | | | |
| Department of Veterans Affairs | | | | | | | | | | | | | | | ● | | |
| Environmental Protection Agency | | | | | | ● | | | | | | | | | | | |
| International Security Assistance | | ● | | | | | | | | | | | | | | | |
| National Aeronautics and Space Administration | | | | ● | | | | | ● | | | | | | | | |
| National Archives and Records Administration | | | | | | | | | | | | | | | | | ● |
| National Science Foundation | | | ● | | | | | | | | | | | | | | |
| Nuclear Regulatory Commission | | | | | ● | | | | | | | | | | | | |
| Patient-Centered Outcomes Research Trust Fund | | | | | | | | | | | ● | | | | | | |
| Smithsonian Institution | | | | | | | | | | ● | | | | | | | |
| Social Security Administration | | | | | | | | | | | | | | ● | | | |
| Tennessee Valley Authority | | | | | ● | | | | | | | | | | | | |

● = R&D function funded by specified agency.

SOURCES: Agencies' submissions to Office of Management and Budget per MAX Schedule C, agencies' budget justification documents, and supplemental data obtained from agencies' budget offices.

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