

Table 67. Federal outlays for research and development, by agency: FYs 2016–25

(Dollars in millions)

Agency	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 (preliminary)
All agencies	109,552	110,000	117,072	124,854	144,920	174,556	178,923	169,099	178,848	180,414
Departments										
Department of Agriculture	2,411	2,330	2,308	2,498	2,459	2,593	2,849	3,059	3,372	3,144
Agricultural Marketing Service	7	7	7	8	7	7	5	6	14	9
Agricultural Research Service	1,118	1,149	1,101	1,150	1,264	1,378	1,494	1,662	1,792	1,638
Animal and Plant Health Inspection Service	39	39	39	39	40	42	45	47	43	42
Economic Research Service	94	82	87	82	82	85	88	93	91	91
Foreign Agricultural Service	*	*	0	0	0	0	0	NA	NA	NA
Forest Service	336	334	327	323	317	290	297	307	330	338
Grain Inspection, Packers, and Stockyards Administration	6	*	na	na	na	na	na	na	na	na
National Agricultural Statistics Service	9	9	9	9	9	9	11	11	8	9
National Institute of Food and Agriculture	798	706	735	884	738	779	908	911	1,000	997
Natural Resources Conservation Service	NA	NA	NA	NA	NA	1	1	22	95	20
Rural Business-Cooperative Service	4	3	3	3	3	0	0	NA	NA	NA
Department of Commerce	1,330	1,526	1,415	1,522	1,546	1,689	1,934	2,273	2,320	4,487
Census Bureau	170	220	110	96	111	109	202	284	360	360
National Institute of Standards and Technology	645	644	670	703	680	769	807	857	994	2,658
National Oceanic and Atmospheric Administration	505	654	627	714	748	800	914	1,125	936	1,050
National Telecommunications and Information Administration	10	8	7	9	8	10	11	6	31	418
Department of Defense	42,700	41,292	44,843	48,135	55,832	63,275	68,717	75,554	85,588	87,854
Defense Advanced Research Projects Agency	2,871	2,877	2,996	3,254	3,466	3,508	3,703	4,036	4,214	4,146
Defense Health Agency	NA	NA	NA	NA	2,001	2,427	2,112	2,248	3,054	2,786
Department of the Air Force	7,137	7,439	11,015	11,830	13,388	14,956	17,254	20,588	24,902	27,961
Air Force	7,137	7,439	11,015	11,830	9,050	10,563	12,935	13,511	15,882	18,159
Space Force	na	na	na	na	4,338	4,393	4,319	7,077	9,020	9,803
Department of the Army	6,800	6,911	7,011	9,293	10,868	11,440	11,284	11,516	10,145	13,060
Department of the Navy	15,166	14,398	12,523	10,903	14,788	16,260	16,425	19,626	23,417	21,901
Other defense agencies	10,726	9,667	11,298	12,855	11,323	14,686	17,938	17,540	19,855	18,000
Department of Education	212	246	235	226	227	214	285	327	361	423
Department of Energy	11,855	12,020	14,607	13,657	10,810	12,263	12,461	13,087	14,519	14,804
Advanced Research Projects Agency—Energy	238	269	251	247	270	308	339	399	391	400
Bonneville Power Administration	16	14	NA	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	92	133	104	144	142	146	111	114	132	162
Energy Efficiency and Renewable Energy	1,142	1,280	1,341	1,451	1,447	1,513	1,426	1,411	1,572	1,450
Environmental Management	23	29	38	29	31	23	22	43	39	39
Fossil Energy	624	620	662	659	584	681	610	818	902	1,010
National Nuclear Security Administration	4,545	4,636	4,025	5,477	3,475	3,866	3,942	3,905	4,327	4,301
Defense Programs	2,980	3,167	2,537	3,360	2,070	2,384	2,827	2,759	3,110	2,996

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Naval Nuclear Propulsion Program	1,216	1,220	1,173	1,789	1,113	1,140	749	741	820	906
Office of Defense Nuclear Nonproliferation	349	249	316	329	292	342	366	405	397	400
Nuclear Energy	833	811	846	1,110	1	455	562	291	906	692
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	0	36	51	31	*	66	49	71
Office of Science	4,343	4,227	7,340	4,503	4,809	5,241	5,449	6,041	6,201	6,680
Department of Health and Human Services	29,522	31,169	32,997	35,271	53,408	72,664	68,926	50,958	48,681	45,921
Administration for Children and Families	3	2	1	2	2	5	4	7	13	12
Administration for Community Living	83	83	83	83	92	107	107	113	113	112
Advanced Research Projects Agency for Health	NA	NA	NA	NA	NA	NA	NA	0	460	216
Agency for Healthcare Research and Quality	334	324	334	338	338	338	350	374	374	374
Agency for Toxic Substances and Disease Registry	2	3	3	7	*	11	12	0	3	3
Biomedical Advanced Research and Development Authority	NA	NA	NA	281	17,441	33,881	28,413	5,913	1,489	819
Centers for Disease Control and Prevention	198	208	200	187	218	299	232	198	172	158
Centers for Medicare and Medicaid Services	30	30	231	6	31	36	270	4	4	5
Food and Drug Administration	455	435	428	444	415	528	502	636	656	597
Health Resources and Services Administration	41	46	34	27	25	56	40	72	83	77
National Institutes of Health	28,358	30,021	31,667	33,879	34,830	37,386	38,962	43,608	45,281	43,511
Office of the Secretary of Health and Human Services	18	17	17	17	16	17	36	34	35	37
Office of the Assistant Secretary for Planning and Evaluation	18	17	17	17	16	17	36	34	35	37
Department of Homeland Security	538	841	862	863	867	553	555	584	532	460
Coast Guard	21	21	17	22	5	10	7	7	11	10
Countering Weapons of Mass Destruction Office	63	69	65	81	85	87	66	67	60	40
Cybersecurity and Infrastructure Security Agency	na	na	7	13	8	13	6	8	0	1
Science and Technology Directorate	454	751	752	724	736	411	457	470	422	387
Secret Service	NA	NA	1	2	10	3	1	*	4	4
Transportation Security Administration	NA	NA	20	21	23	29	18	32	35	18
Department of Housing and Urban Development	75	71	71	63	NA	NA	NA	NA	NA	NA
Department of the Interior	857	861	751	801	822	874	916	515	494	447
Bureau of Indian Affairs	NA	NA	5	5	*	5	5	5	5	5
Bureau of Land Management	18	18	21	21	21	9	12	13	17	15
Bureau of Ocean Energy Management	73	73	77	73	73	70	66	0	NA	NA
Bureau of Reclamation	21	27	23	23	27	38	28	32	30	32
Bureau of Safety and Environmental Enforcement	27	21	6	12	8	14	8	10	11	8
Fish and Wildlife Service	32	24	24	24	26	23	35	41	48	6
Geological Survey	677	688	593	640	665	691	737	409	378	377
National Park Service	9	10	1	1	1	23	25	4	5	5
Office of Surface Mining Reclamation and Enforcement	NA	NA	1	1	1	0	NA	NA	NA	NA
Department of Justice	69	24	20	20	24	19	23	34	38	39

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Bureau of Prisons	11	10	6	7	8	8	5	13	9	8
Federal Bureau of Investigation	13	2	3	1	5	4	9	6	16	21
Office of Justice Programs	45	12	11	12	11	8	9	15	13	10
Department of Labor	8	3	3	3	3	3	3	1	1	1
Employee Benefits Security Administration	3	1	1	1	1	1	1	1	1	1
Occupational Safety and Health Administration	1	2	2	2	2	2	2	NA	NA	NA
Pension Benefit Guaranty Corporation	4	0	0	NA	NA	NA	NA	NA	NA	NA
Department of State	2	2	62	62	40	64	65	56	34	0
Department of Transportation	719	682	630	669	651	660	689	854	930	1,011
Federal Aviation Administration	223	234	209	211	195	221	222	290	305	311
Federal Highway Administration	353	274	261	287	278	257	263	292	387	344
Federal Motor Carrier Safety Administration	11	12	10	7	7	3	11	13	8	13
Federal Railroad Administration	39	41	33	33	41	38	41	50	30	37
Federal Transit Administration	7	41	36	40	20	29	27	23	24	22
National Highway Traffic Safety Administration	49	55	53	64	67	60	69	77	79	84
Office of the Secretary of Transportation	19	11	16	9	24	31	46	89	80	179
Pipeline and Hazardous Materials Safety Administration	19	13	10	18	18	21	9	20	17	20
Department of the Treasury	85	10	38	45	45	54	48	53	35	64
Bureau of Engraving and Printing	19	9	38	45	45	54	48	52	35	64
Internal Revenue Service	65	0	0	0	0	NA	NA	NA	NA	NA
Mint	2	1	0	*	*	*	0	1	*	*
Department of Veterans Affairs	583	594	644	685	778	1,475	1,610	1,761	1,764	1,800
Other agencies										
Administrative Office of the U.S. Courts	7	8	7	6	5	4	1	NA	NA	NA
Agency for Global Media	NA	NA	NA	6	5	5	8	9	9	0
Agency for International Development	193	192	167	221	194	82	221	252	252	0
Appalachian Regional Commission	*	1	1	1	1	1	1	1	1	1
Consumer Product Safety Commission	2	2	1	1	*	*	*	*	*	*
Environmental Protection Agency	508	494	487	485	489	520	525	572	535	535
Federal Communications Commission	5	7	5	2	2	0	NA	NA	NA	NA
Federal Trade Commission	3	6	6	6	6	8	3	3	1	*
Library of Congress	2	2	3	2	3	3	3	3	na	na
National Aeronautics and Space Administration	11,937	10,528	10,765	13,260	10,481	11,089	12,137	11,281	11,397	10,813
National Archives and Records Administration	1	1	1	1	*	NA	NA	NA	NA	NA
National Science Foundation	5,120	5,279	5,207	5,273	5,370	5,546	5,989	6,780	6,921	7,638
Nuclear Regulatory Commission	86	67	78	75	69	77	82	69	60	55
Patient-Centered Outcomes Research Trust Fund	354	1,345	492	579	470	460	522	555	607	585
Postal Service	29	73	53	27	18	15	14	7	5	3

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RESTORE Act Centers of Excellence Research Grants Program	na	na	na	na	7	4	4	5	6	6
Smithsonian Institution	208	210	230	236	210	219	227	242	168	182
Social Security Administration	129	110	72	146	70	105	79	91	97	58
Tennessee Valley Authority	NA	6	13	10	8	17	28	111	117	85

* = amount greater than \$0 but less than \$500,000. na = not applicable; data were not collected at this level of detail for this agency or subagency. NA = not available; agency did not provide data.

Note(s):
Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. Beginning with FY 2016, the totals reported for development outlays represent a refinement to this category by more narrowly defining it to be "experimental development." Most notably, totals for development do not include the Department of Defense (DOD) Budget Activity 7 (Operational System Development) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) outlays. Those funds, previously included in DOD's development outlay totals, support the development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate production funding in the current or subsequent fiscal year. Therefore, the data are not directly comparable with totals reported in previous years. FYs 2020, 2021, and 2022 outlays include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). For additional notes associated with the agencies listed in this table, see technical table A-2 at <https://nces.nsf.gov/surveys/federal-funds-research-development/2024-2025#technical-tables>.

Source(s):
National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.