

TABLE 67

Federal outlays for research and development, by agency: FYs 2015–24

(Dollars in millions)

Agency	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 (preliminary)
All agencies	128,090	109,552	110,000	117,072	124,854	144,920	174,548	178,919	169,086	180,014
Departments										
Department of Agriculture	2,320	2,411	2,330	2,308	2,498	2,459	2,593	2,849	3,059	3,491
Agricultural Marketing Service	7	7	7	7	8	7	7	5	6	6
Agricultural Research Service	1,077	1,118	1,149	1,101	1,150	1,264	1,378	1,494	1,662	1,946
Animal and Plant Health Inspection Service	34	39	39	39	39	40	42	45	47	45
Economic Research Service	74	94	82	87	82	82	85	88	93	91
Foreign Agricultural Service	1	*	*	0	0	0	0	0	NA	NA
Forest Service	336	336	334	327	323	317	290	297	307	300
Grain Inspection, Packers, and Stockyards Administration	6	6	*	na	na	na	na	na	na	na
National Agricultural Statistics Service	9	9	9	9	9	9	9	11	11	11
National Institute of Food and Agriculture	772	798	706	735	884	738	779	908	911	1,073
Natural Resources Conservation Service	NA	NA	NA	NA	NA	NA	1	1	22	19
Rural Business-Cooperative Service	4	4	3	3	3	3	0	0	NA	NA
Department of Commerce	1,221	1,330	1,526	1,415	1,522	1,546	1,689	1,934	2,273	2,642
Census Bureau	142	170	220	110	96	111	109	202	284	312
National Institute of Standards and Technology	607	645	644	670	703	680	769	807	857	1,355
National Oceanic and Atmospheric Administration	461	505	654	627	714	748	800	914	1,125	953
National Telecommunications and Information Administration	11	10	8	7	9	8	10	11	6	21
Department of Defense	62,100	42,700	41,292	44,843	48,135	55,832	63,275	68,717	75,554	87,417
Defense Advanced Research Projects Agency	2,832	2,871	2,877	2,996	3,254	3,466	3,508	3,703	4,036	4,388
Defense Health Agency	NA	NA	NA	NA	NA	2,001	2,427	2,112	2,248	2,225
Department of the Air Force	23,323	7,137	7,439	11,015	11,830	9,050	10,563	12,935	13,511	15,129
Department of the Army	7,306	6,800	6,911	7,011	9,293	10,868	11,440	11,284	11,516	15,485
Department of the Navy	14,669	15,166	14,398	12,523	10,903	14,788	16,260	16,425	19,626	22,653
Space Force	na	na	na	na	na	4,338	4,393	4,319	7,077	9,329
Other defense agencies	13,970	10,726	9,667	11,298	12,855	11,323	14,686	17,938	17,540	18,207
Department of Education	318	212	246	235	226	227	214	285	327	367
Department of Energy	11,303	11,855	12,020	14,607	13,657	10,810	12,263	12,461	13,087	14,013
Advanced Research Projects Agency–Energy	245	238	269	251	247	270	308	339	399	0
Bonneville Power Administration	16	16	14	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	108	92	133	104	144	142	146	111	114	167
Energy Efficiency and Renewable Energy	1,043	1,142	1,280	1,341	1,451	1,447	1,513	1,426	1,411	1,935
Environmental Management	24	23	29	38	29	31	23	22	43	39
Fossil Energy	632	624	620	662	659	584	681	610	818	903
National Nuclear Security Administration	4,222	4,545	4,636	4,025	5,477	3,475	3,866	3,942	3,905	4,263

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Defense Programs	2,926	2,980	3,167	2,537	3,360	2,070	2,384	2,827	2,759	2,914
Naval Nuclear Propulsion Program	1,083	1,216	1,220	1,173	1,789	1,113	1,140	749	741	958
Office of Defense Nuclear Nonproliferation	213	349	249	316	329	292	342	366	405	391
Nuclear Energy	760	833	811	846	1,110	1	455	562	291	283
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	na	0	36	51	31	*	66	84
Office of Science	4,253	4,343	4,227	7,340	4,503	4,809	5,241	5,449	6,041	6,340
Department of Health and Human Services	29,497	29,522	31,169	32,997	35,271	53,408	72,664	68,926	50,958	47,019
Administration for Children and Families	3	3	2	1	2	2	5	4	7	7
Administration for Community Living	76	83	83	83	83	92	107	107	113	113
Agency for Healthcare Research and Quality	364	334	324	334	338	338	338	350	374	374
Agency for Toxic Substances and Disease Registry	2	2	3	3	7	*	11	12	0	0
Biomedical Advanced Research and Development Authority	NA	NA	NA	NA	281	17,441	33,881	28,413	5,913	1,926
Centers for Disease Control and Prevention	275	198	208	200	187	218	299	232	198	175
Centers for Medicare and Medicaid Services	24	30	30	231	6	31	36	270	4	4
Food and Drug Administration	336	455	435	428	444	415	528	502	636	633
Health Resources and Services Administration	41	41	46	34	27	25	56	40	72	64
National Institutes of Health	28,358	28,358	30,021	31,667	33,879	34,830	37,386	38,962	43,608	43,690
Office of the Secretary of Health and Human Services	18	18	17	17	17	16	17	36	34	35
Office of the Assistant Secretary for Planning and Evaluation	18	18	17	17	17	16	17	36	34	35
Department of Homeland Security	476	538	841	862	863	867	553	555	584	524
Coast Guard	24	21	21	17	22	5	10	7	7	7
Countering Weapons of Mass Destruction Office	71	63	69	65	81	85	87	66	67	65
Cybersecurity and Infrastructure Security Agency	na	na	na	7	13	8	13	6	8	5
Science and Technology Directorate	380	454	751	752	724	736	411	457	470	432
Secret Service	NA	NA	NA	1	2	10	3	1	*	2
Transportation Security Administration	NA	NA	NA	20	21	23	29	18	32	14
Department of Housing and Urban Development	56	75	71	71	63	NA	NA	NA	NA	NA
Department of the Interior	805	857	861	751	801	822	874	916	515	506
Bureau of Indian Affairs	NA	NA	NA	5	5	*	5	5	5	5
Bureau of Land Management	16	18	18	21	21	21	9	12	13	12
Bureau of Ocean Energy Management	50	73	73	77	73	73	70	66	0	0
Bureau of Reclamation	10	21	27	23	23	27	38	28	32	30
Bureau of Safety and Environmental Enforcement	23	27	21	6	12	8	14	8	10	9
Fish and Wildlife Service	32	32	24	24	24	26	23	35	41	48
Geological Survey	666	677	688	593	640	665	691	737	409	398
National Park Service	8	9	10	1	1	1	23	25	4	4

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Office of Surface Mining Reclamation and Enforcement	NA	NA	NA	1	1	1	0	NA	NA	NA
Department of Justice	57	69	24	20	20	24	11	18	21	23
Bureau of Prisons	11	11	10	6	7	8	*	*	*	*
Federal Bureau of Investigation	13	13	2	3	1	5	4	9	6	6
Office of Justice Programs	33	45	12	11	12	11	8	9	15	17
Department of Labor	13	8	3	3	3	3	3	3	1	1
Employee Benefits Security Administration	5	3	1	1	1	1	1	1	1	1
Occupational Safety and Health Administration	3	1	2	2	2	2	2	2	NA	NA
Pension Benefit Guaranty Corporation	4	4	0	0	NA	NA	NA	NA	NA	NA
Department of State	2	2	2	62	62	40	64	65	56	34
Department of Transportation	697	719	682	630	669	651	660	689	854	889
Federal Aviation Administration	209	223	234	209	211	195	221	222	290	329
Federal Highway Administration	353	353	274	261	287	278	257	263	292	283
Federal Motor Carrier Safety Administration	8	11	12	10	7	7	3	11	13	14
Federal Railroad Administration	41	39	41	33	33	41	38	41	50	51
Federal Transit Administration	17	7	41	36	40	20	29	27	23	21
National Highway Traffic Safety Administration	46	49	55	53	64	67	60	69	77	83
Office of the Secretary of Transportation	11	19	11	16	9	24	31	46	89	81
Pipeline and Hazardous Materials Safety Administration	12	19	13	10	18	18	21	9	20	27
Department of the Treasury	67	85	10	38	45	45	54	48	53	57
Bureau of Engraving and Printing	9	19	9	38	45	45	54	48	52	57
Internal Revenue Service	54	65	0	0	0	0	NA	NA	NA	NA
Mint	3	2	1	0	*	*	*	0	1	*
Department of Veterans Affairs	612	583	594	644	685	778	1,475	1,610	1,761	1,812
Other agencies										
Administrative Office of the U.S. Courts	NA	7	8	7	6	5	4	1	NA	NA
Agency for Global Media	NA	NA	NA	NA	6	5	5	8	9	9
Agency for International Development	212	193	192	167	221	194	82	221	252	252
Appalachian Regional Commission	1	*	1	1	1	1	1	1	1	1
Consumer Product Safety Commission	2	2	2	1	1	*	*	*	*	*
Environmental Protection Agency	516	508	494	487	485	489	520	525	572	535
Federal Communications Commission	5	5	7	5	2	2	0	NA	NA	NA
Federal Trade Commission	2	3	6	6	6	6	8	3	3	10
Library of Congress	1	2	2	3	2	3	3	3	3	5
National Aeronautics and Space Administration	12,150	11,937	10,528	10,765	13,260	10,481	11,089	12,137	11,281	11,714
National Archives and Records Administration	1	1	1	1	1	*	NA	NA	NA	NA

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National Science Foundation	5,059	5,120	5,279	5,207	5,273	5,370	5,546	5,989	6,780	7,580
Nuclear Regulatory Commission	71	86	67	78	75	69	77	82	69	67
Patient-Centered Outcomes Research Trust Fund	244	354	1,345	492	579	470	460	522	555	546
Postal Service	28	29	73	53	27	18	15	14	7	6
RESTORE Act Centers of Excellence Research Grants Program	na	na	na	na	na	7	4	4	5	6
Smithsonian Institution	196	208	210	230	236	210	219	227	242	254
Social Security Administration	59	129	110	72	146	70	105	79	91	111
Tennessee Valley Authority	NA	NA	6	13	10	8	17	28	111	121

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

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. 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). See technical table A-2 for additional notes associated with the agencies listed in this table.

Source(s):

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