

TABLE 67

## Federal outlays for research and development, by agency: FYs 2013–22

(Dollars in millions)

Agency	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 (preliminary)
All agencies	127,225	128,476	128,090	109,552	110,000	117,072	124,854	144,920	174,529	179,316
Departments										
Department of Agriculture	2,232	2,321	2,320	2,411	2,330	2,308	2,498	2,459	2,593	3,258
Agricultural Marketing Service	5	6	7	7	7	7	8	7	7	8
Agricultural Research Service	1,071	1,025	1,077	1,118	1,149	1,101	1,150	1,264	1,378	1,705
Animal and Plant Health Inspection Service	31	37	34	39	39	39	39	40	42	44
Economic Research Service	79	77	74	94	82	87	82	82	85	91
Foreign Agricultural Service	1	*	1	*	*	0	0	0	0	0
Forest Service	342	330	336	336	334	327	323	317	290	423
Grain Inspection, Packers, and Stockyards Administration	5	6	6	6	*	na	na	na	na	na
National Agricultural Statistics Service	7	9	9	9	9	9	9	9	9	11
National Institute of Food and Agriculture	688	824	772	798	706	735	884	738	779	975
Natural Resources Conservation Service	NA	NA	NA	NA	NA	NA	NA	NA	1	*
Rural Business-Cooperative Service	3	6	4	4	3	3	3	3	0	0
Department of Commerce	1,082	1,267	1,221	1,330	1,526	1,415	1,522	1,546	1,689	1,774
Census Bureau	131	201	142	170	220	110	96	111	109	149
National Institute of Standards and Technology	524	553	607	645	644	670	703	680	769	838
National Oceanic and Atmospheric Administration	419	504	461	505	654	627	714	748	800	776
National Telecommunications and Information Administration	8	8	11	10	8	7	9	8	10	12
Department of Defense	65,020	63,509	62,100	42,700	41,292	44,843	48,135	55,832	63,275	68,408
Defense Advanced Research Projects Agency	2,692	2,808	2,832	2,871	2,877	2,996	3,254	3,466	3,508	3,703
Defense Health Agency	na	NA	NA	NA	NA	NA	NA	2,001	2,427	2,474
Department of the Air Force	24,790	23,205	23,323	7,137	7,439	11,015	11,830	9,050	10,563	10,333
Department of the Army	7,817	7,653	7,306	6,800	6,911	7,011	9,293	10,868	11,440	12,524
Department of the Navy	15,487	15,437	14,669	15,166	14,398	12,523	10,903	14,788	16,260	17,947
Space Force	na	na	na	na	na	na	na	4,338	4,393	4,166
Other defense agencies	14,233	14,407	13,970	10,726	9,667	11,298	12,855	11,323	14,686	17,259
Department of Education	97	345	318	212	246	235	226	227	214	321
Department of Energy	9,302	10,364	11,303	11,855	12,020	14,607	13,657	10,810	12,263	13,669
Advanced Research Projects Agency—Energy	144	187	245	238	269	251	247	270	308	373
Bonneville Power Administration	0	16	16	16	14	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	45	73	108	92	133	104	144	142	146	1,280
Energy Efficiency and Renewable Energy	705	960	1,043	1,142	1,280	1,341	1,451	1,447	1,513	1,598
Environmental Management	9	23	24	23	29	38	29	31	23	20
Fossil Energy	360	426	632	624	620	662	659	584	681	708
National Nuclear Security Administration	3,856	4,312	4,222	4,545	4,636	4,025	5,477	3,475	3,866	3,861
Defense Programs	2,568	2,921	2,926	2,980	3,167	2,537	3,360	2,070	2,384	2,284
Naval Nuclear Propulsion Program	994	1,094	1,083	1,216	1,220	1,173	1,789	1,113	1,140	1,246

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Office of Defense Nuclear Nonproliferation	294	297	213	349	249	316	329	292	342	332
Nuclear Energy	263	324	760	833	811	846	1,110	1	455	521
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	na	na	na	0	36	51	31	53
Office of Science	3,920	4,042	4,253	4,343	4,227	7,340	4,503	4,809	5,241	5,255
Department of Health and Human Services	29,282	30,404	29,497	29,522	31,169	32,997	35,271	53,408	72,664	67,672
Administration for Children and Families	3	3	3	3	2	1	2	2	5	4
Administration for Community Living	0	0	76	83	83	83	83	92	107	111
Agency for Healthcare Research and Quality	365	364	364	334	324	334	338	338	338	350
Agency for Toxic Substances and Disease Registry	1	1	2	2	3	3	7	*	11	11
Biomedical Advanced Research and Development Authority	NA	NA	NA	NA	NA	NA	281	17,441	33,881	26,434
Centers for Disease Control and Prevention	301	198	275	198	208	200	187	218	299	284
Centers for Medicare and Medicaid Services	20	34	24	30	30	231	6	31	36	36
Food and Drug Administration	323	348	336	455	435	428	444	415	528	599
Health Resources and Services Administration	37	38	41	41	46	34	27	25	56	45
National Institutes of Health	28,215	29,400	28,358	28,358	30,021	31,667	33,879	34,830	37,386	39,781
Office of the Secretary of Health and Human Services	19	19	18	18	17	17	17	16	17	18
Office of the Assistant Secretary for Planning and Evaluation	19	19	18	18	17	17	17	16	17	18
Department of Homeland Security	335	448	476	538	841	862	863	867	553	641
Coast Guard	21	24	24	21	21	17	22	5	10	7
Countering Weapons of Mass Destruction Office	NA	74	71	63	69	65	81	85	87	68
Cybersecurity and Infrastructure Security Agency	na	na	na	na	na	7	13	8	13	11
Science and Technology Directorate	314	351	380	454	751	752	724	736	411	513
Secret Service	NA	NA	NA	NA	NA	1	2	10	3	6
Transportation Security Administration	NA	NA	NA	NA	NA	20	21	23	29	35
Department of Housing and Urban Development	64	67	56	75	71	71	63	NA	NA	NA
Department of the Interior	698	739	805	857	861	751	801	822	874	1,145
Bureau of Indian Affairs	NA	NA	NA	NA	NA	5	5	*	5	4
Bureau of Land Management	NA	NA	16	18	18	21	21	21	9	12
Bureau of Ocean Energy Management	31	48	50	73	73	77	73	73	70	78
Bureau of Reclamation	10	12	10	21	27	23	23	27	38	42
Bureau of Safety and Environmental Enforcement	14	15	23	27	21	6	12	8	14	14
Fish and Wildlife Service	NA	NA	32	32	24	24	24	26	23	23

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Agency	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 (preliminary)
Geological Survey	636	649	666	677	688	593	640	665	691	947
National Park Service	7	15	8	9	10	1	1	1	23	25
Office of Surface Mining Reclamation and Enforcement	NA	NA	NA	NA	NA	1	1	1	0	0
Department of Justice	110	161	57	69	24	20	20	24	11	13
Bureau of Prisons	11	11	11	11	10	6	7	8	*	*
Federal Bureau of Investigation	30	10	13	13	2	3	1	5	4	5
Office of Justice Programs	69	140	33	45	12	11	12	11	8	8
Department of Labor	15	12	13	8	3	3	3	3	3	3
Employee Benefits Security Administration	8	6	5	3	1	1	1	1	1	1
Occupational Safety and Health Administration	4	4	3	1	2	2	2	2	2	2
Pension Benefit Guaranty Corp.	3	3	4	4	0	0	NA	NA	NA	NA
Department of State	1	NA	2	2	2	62	62	40	64	67
Department of Transportation	660	786	697	719	682	630	669	651	642	771
Federal Aviation Administration	198	209	209	223	234	209	211	195	221	340
Federal Highway Administration	281	386	353	353	274	261	287	278	257	245
Federal Motor Carrier Safety Administration	7	8	8	11	12	10	7	7	3	9
Federal Railroad Administration	41	52	41	39	41	33	33	41	38	42
Federal Transit Administration	11	9	17	7	41	36	40	20	29	34
National Highway Traffic Safety Administration	95	93	46	49	55	53	64	67	60	57
Office of the Secretary of Transportation	16	14	11	19	11	16	9	24	13	15
Pipeline and Hazardous Materials Safety Administration	7	16	12	19	13	10	18	18	21	29
Research and Innovative Technology Administration	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of the Treasury	74	76	67	85	10	38	45	45	54	65
Bureau of Engraving and Printing	9	9	9	19	9	38	45	45	54	64
Internal Revenue Service	65	64	54	65	0	0	0	0	NA	NA
Mint	*	3	3	2	1	0	*	*	*	1
Department of Veterans Affairs	639	608	612	583	594	644	685	778	1,475	1,628
Other agencies										
Administrative Office of the U.S. Courts	NA	NA	NA	7	8	7	6	5	4	1
Agency for Global Media	NA	NA	NA	NA	NA	NA	6	5	5	8
Agency for International Development	125	60	212	193	192	167	221	194	82	82
Appalachian Regional Commission	*	1	1	*	1	1	1	1	1	*
Consumer Product Safety Commission	1	2	2	2	2	1	1	*	*	*
Environmental Protection Agency	523	531	516	508	494	487	485	489	520	525
Federal Communications Commission	5	7	5	5	7	5	2	2	0	0
Federal Trade Commission	3	3	2	3	6	6	6	6	8	9
Library of Congress	1	1	1	2	2	3	2	3	3	3
National Aeronautics and Space Administration	11,265	11,128	12,150	11,937	10,528	10,765	13,260	10,481	11,089	12,198
National Archives and Records Administration	1	1	1	1	1	1	1	*	NA	NA

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Agency	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 (preliminary)
National Science Foundation	5,269	5,198	5,059	5,120	5,279	5,207	5,273	5,370	5,546	6,107
Nuclear Regulatory Commission	85	91	71	86	67	78	75	69	77	79
Patient-Centered Outcomes Research Trust Fund	74	94	244	354	1,345	492	579	470	460	481
Postal Service	NA	NA	28	29	73	53	27	18	15	16
RESTORE Act Centers of Excellence Research Grants Program	na	na	na	na	na	na	na	7	4	3
Smithsonian Institution	204	195	196	208	210	230	236	210	219	228
Social Security Administration	57	60	59	129	110	72	146	70	105	99
Tennessee Valley Authority	NA	NA	NA	NA	6	13	10	8	17	41

\* = 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 Systems Development) 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 and 2021 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.