

TABLE 65

Federal outlays for research, development, and R&D plant, by agency: FYs 2015–24

(Dollars in millions)

Agency	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 (preliminary)
All agencies	130,495	111,780	113,223	120,916	128,141	149,706	178,353	183,103	173,848	184,813
Departments										
Department of Agriculture	2,339	2,432	2,345	2,347	2,547	2,534	2,704	2,958	3,170	3,674
Agricultural Marketing Service	7	7	7	7	8	7	7	5	6	6
Agricultural Research Service	1,086	1,124	1,155	1,124	1,189	1,330	1,478	1,594	1,757	2,118
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	344	349	343	343	333	326	302	306	321	311
Grain Inspection, Packers, and Stockyards Administration	8	8	*	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	23	19
Rural Business-Cooperative Service	4	4	3	3	3	3	0	0	NA	NA
Department of Commerce	1,417	1,542	1,710	1,707	1,908	1,808	1,953	2,336	2,896	3,162
Census Bureau	142	170	220	110	96	111	109	202	284	312
National Institute of Standards and Technology	671	706	709	745	836	774	890	992	1,007	1,622
National Oceanic and Atmospheric Administration	593	655	773	844	967	915	944	1,130	1,598	1,204
National Telecommunications and Information Administration	11	10	8	7	9	8	10	13	7	24
Department of Defense	62,251	42,868	42,212	45,238	48,489	56,339	63,487	68,968	75,747	87,593
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	2,016	2,427	2,112	2,248	2,225
Department of the Air Force	23,442	7,260	7,600	11,194	12,035	9,243	10,726	13,099	13,653	15,260
Department of the Army	7,306	6,805	7,631	7,011	9,293	10,868	11,440	11,284	11,516	15,485
Department of the Navy	14,693	15,195	14,427	12,561	11,029	15,072	16,298	16,450	19,659	22,687
Space Force	na	na	na	na	na	4,338	4,393	4,319	7,077	9,329
Other defense agencies	13,978	10,737	9,676	11,476	12,877	11,337	14,696	18,000	17,557	18,217
Department of Education	318	212	246	235	226	227	214	285	327	367
Department of Energy	12,295	12,853	13,187	16,672	15,164	12,600	14,593	15,068	15,839	16,537
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	1,047	1,145	1,284	1,549	1,461	1,502	1,552	1,469	1,453	1,989
Environmental Management	24	23	29	38	29	31	23	22	43	39
Fossil Energy	650	624	636	683	682	608	708	629	845	929
National Nuclear Security Administration	4,515	4,806	4,926	4,324	5,752	3,987	4,702	4,630	4,767	5,086

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Agency	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 (preliminary)
Defense Programs	3,063	3,082	3,256	2,726	3,635	2,326	2,881	3,245	3,367	3,458
Naval Nuclear Propulsion Program	1,239	1,375	1,420	1,282	1,789	1,360	1,471	1,018	971	1,213
Office of Defense Nuclear Nonproliferation	213	349	249	316	329	301	349	366	429	415
Nuclear Energy	760	833	811	846	1,110	1	455	866	493	377
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	na	0	36	51	31	*	66	84
Office of Science	4,930	5,077	5,086	8,878	5,703	6,008	6,669	7,003	7,658	7,868
Department of Health and Human Services	29,624	29,663	31,386	33,219	35,427	54,910	73,019	69,148	51,398	47,591
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	18,737	34,041	28,414	5,974	2,005
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	359	486	464	456	470	443	563	536	678	675
Health Resources and Services Administration	42	42	46	34	27	25	58	40	74	66
National Institutes of Health	28,462	28,468	30,209	31,860	34,009	35,008	37,545	39,148	43,943	44,138
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	704	732	1,026	1,077	1,069	936	566	567	590	571
Coast Guard	26	22	22	18	23	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	607	646	935	966	929	806	423	470	475	478
Secret Service	NA	NA	NA	1	2	10	3	1	*	2
Transportation Security Administration	NA	NA	NA	20	21	23	30	18	33	15
Department of Housing and Urban Development	56	75	71	71	63	NA	NA	NA	NA	NA
Department of the Interior	813	865	864	754	804	827	876	929	523	514
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	13	22	29	25	24	29	40	29	34	33
Bureau of Safety and Environmental Enforcement	28	34	23	8	15	11	14	19	16	14
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	719	748	716	661	707	703	689	722	889	919
Federal Aviation Administration	228	250	266	239	247	245	248	250	322	356
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	44	41	44	35	35	43	39	46	53	54
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	70	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	49	47	54	48	53	57
Bureau of Engraving and Printing	9	19	9	38	46	46	54	48	52	57
Internal Revenue Service	54	65	0	0	0	0	NA	NA	NA	NA
Mint	3	2	1	0	2	*	*	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	521	513	498	492	490	493	526	531	574	540
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	12,360	12,013	10,616	10,852	13,338	10,508	11,133	12,199	11,338	11,753
National Archives and Records Administration	1	1	1	1	1	*	NA	NA	NA	NA

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Agency	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 (preliminary)
National Science Foundation	5,474	5,468	5,650	5,664	5,741	5,793	5,917	6,386	7,241	8,197
Nuclear Regulatory Commission	71	86	67	78	75	70	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	229	237	243	263	269	276	288	297	316	332
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 for that fiscal year.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. 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.