

TABLE 65

Federal outlays for research, development, and R&D plant, by agency: FYs 2014–23

(Dollars in millions)

Agency	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 (preliminary)
All agencies	130,720	130,495	111,780	113,223	120,916	128,141	149,706	178,334	183,064	177,595
Departments										
Department of Agriculture	2,340	2,339	2,432	2,345	2,347	2,547	2,534	2,704	2,958	3,695
Agricultural Marketing Service	6	7	7	7	7	8	7	7	5	5
Agricultural Research Service	1,035	1,086	1,124	1,155	1,124	1,189	1,330	1,478	1,594	2,160
Animal and Plant Health Inspection Service	37	34	39	39	39	39	40	42	45	49
Economic Research Service	77	74	94	82	87	82	82	85	88	93
Foreign Agricultural Service	*	1	*	*	0	0	0	0	0	0
Forest Service	337	344	349	343	343	333	326	302	306	323
Grain Inspection, Packers, and Stockyards Administration	8	8	8	*	na	na	na	na	na	na
National Agricultural Statistics Service	9	9	9	9	9	9	9	9	11	11
National Institute of Food and Agriculture	824	772	798	706	735	884	738	779	908	1,054
Natural Resources Conservation Service	NA	NA	NA	NA	NA	NA	NA	1	1	*
Rural Business-Cooperative Service	6	4	4	3	3	3	3	0	0	0
Department of Commerce	1,447	1,417	1,542	1,710	1,707	1,908	1,808	1,953	2,336	3,003
Census Bureau	201	142	170	220	110	96	111	109	202	312
National Institute of Standards and Technology	604	671	706	709	745	836	774	890	992	1,159
National Oceanic and Atmospheric Administration	634	593	655	773	844	967	915	944	1,130	1,518
National Telecommunications and Information Administration	8	11	10	8	7	9	8	10	13	14
Department of Defense	63,646	62,251	42,868	42,212	45,238	48,489	56,339	63,487	68,968	81,931
Defense Advanced Research Projects Agency	2,808	2,832	2,871	2,877	2,996	3,254	3,466	3,508	3,703	3,938
Defense Health Agency	NA	NA	NA	NA	NA	NA	2,016	2,427	2,112	2,013
Department of the Air Force	23,316	23,442	7,260	7,600	11,194	12,035	9,243	10,726	13,099	14,779
Department of the Army	7,653	7,306	6,805	7,631	7,011	9,293	10,868	11,440	11,284	14,418
Department of the Navy	15,457	14,693	15,195	14,427	12,561	11,029	15,072	16,298	16,450	20,131
Space Force	na	na	na	na	na	na	4,338	4,393	4,319	8,237
Other defense agencies	14,413	13,978	10,737	9,676	11,476	12,877	11,337	14,696	18,000	18,415
Department of Education	345	318	212	246	235	226	227	214	285	274
Department of Energy	11,033	12,295	12,853	13,187	16,672	15,164	12,600	14,593	15,068	16,766
Advanced Research Projects Agency—Energy	187	245	238	269	251	247	270	308	339	386
Bonneville Power Administration	16	16	16	14	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	73	108	92	133	104	144	142	146	111	141
Energy Efficiency and Renewable Energy	964	1,047	1,145	1,284	1,549	1,461	1,502	1,552	1,469	1,618
Environmental Management	23	24	23	29	38	29	31	23	22	26
Fossil Energy	442	650	624	636	683	682	608	708	629	798
National Nuclear Security Administration	4,394	4,515	4,806	4,926	4,324	5,752	3,987	4,702	4,630	4,934
Defense Programs	2,981	3,063	3,082	3,256	2,726	3,635	2,326	2,881	3,245	3,114
Naval Nuclear Propulsion Program	1,115	1,239	1,375	1,420	1,282	1,789	1,360	1,471	1,018	1,419

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Office of Defense Nuclear Nonproliferation	297	213	349	249	316	329	301	349	366	402
Nuclear Energy	324	760	833	811	846	1,110	1	455	866	1,349
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	na	na	0	36	51	31	*	*
Office of Science	4,610	4,930	5,077	5,086	8,878	5,703	6,008	6,669	7,003	7,513
Department of Health and Human Services	30,564	29,624	29,663	31,386	33,219	35,427	54,910	73,019	69,148	45,077
Administration for Children and Families	3	3	3	2	1	2	2	5	4	4
Administration for Community Living	0	76	83	83	83	83	92	107	107	113
Agency for Healthcare Research and Quality	364	364	334	324	334	338	338	338	350	374
Agency for Toxic Substances and Disease Registry	1	2	2	3	3	7	*	11	12	12
Biomedical Advanced Research and Development Authority	NA	NA	NA	NA	NA	281	18,737	34,041	28,414	818
Centers for Disease Control and Prevention	198	275	198	208	200	187	218	299	232	190
Centers for Medicare and Medicaid Services	34	24	30	30	231	6	31	36	270	275
Food and Drug Administration	372	359	486	464	456	470	443	563	536	602
Health Resources and Services Administration	38	42	42	46	34	27	25	58	40	36
National Institutes of Health	29,536	28,462	28,468	30,209	31,860	34,009	35,008	37,545	39,148	42,616
Office of the Secretary of Health and Human Services	19	18	18	17	17	17	16	17	36	38
Office of the Assistant Secretary for Planning and Evaluation	19	18	18	17	17	17	16	17	36	38
Department of Homeland Security	856	704	732	1,026	1,077	1,069	936	566	549	724
Coast Guard	25	26	22	22	18	23	5	10	7	7
Countering Weapons of Mass Destruction Office	74	71	63	69	65	81	85	87	66	65
Cybersecurity and Infrastructure Security Agency	na	na	na	na	7	13	8	13	6	9
Science and Technology Directorate	757	607	646	935	966	929	806	423	470	643
Secret Service	NA	NA	NA	NA	1	2	10	3	1	*
Transportation Security Administration	NA	NA	NA	NA	20	21	23	30	*	*
Department of Housing and Urban Development	67	56	75	71	71	63	NA	NA	NA	NA
Department of the Interior	745	813	865	864	754	804	827	876	929	1,037
Bureau of Indian Affairs	NA	NA	NA	NA	5	5	*	5	5	5
Bureau of Land Management	NA	16	18	18	21	21	21	9	12	13
Bureau of Ocean Energy Management	48	50	73	73	77	73	73	70	66	84
Bureau of Reclamation	14	13	22	29	25	24	29	40	29	46
Bureau of Safety and Environmental Enforcement	18	28	34	23	8	15	11	14	19	21
Fish and Wildlife Service	NA	32	32	24	24	24	26	23	35	41

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Agency	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 (preliminary)
Geological Survey	649	666	677	688	593	640	665	691	737	803
National Park Service	15	8	9	10	1	1	1	23	25	25
Office of Surface Mining Reclamation and Enforcement	NA	NA	NA	NA	1	1	1	0	NA	NA
Department of Justice	161	57	69	24	20	20	24	11	18	31
Bureau of Prisons	11	11	11	10	6	7	8	*	*	*
Federal Bureau of Investigation	10	13	13	2	3	1	5	4	9	21
Office of Justice Programs	140	33	45	12	11	12	11	8	9	11
Department of Labor	12	13	8	3	3	3	3	3	3	3
Employee Benefits Security Administration	6	5	3	1	1	1	1	1	1	1
Occupational Safety and Health Administration	4	3	1	2	2	2	2	2	2	2
Pension Benefit Guaranty Corp.	3	4	4	0	0	NA	NA	NA	NA	NA
Department of State	NA	2	2	2	62	62	40	64	65	60
Department of Transportation	806	719	748	716	661	707	703	670	701	817
Federal Aviation Administration	227	228	250	266	239	247	245	248	250	340
Federal Highway Administration	386	353	353	274	261	287	278	257	263	237
Federal Motor Carrier Safety Administration	8	8	11	12	10	7	7	3	11	15
Federal Railroad Administration	54	44	41	44	35	35	43	39	46	48
Federal Transit Administration	9	17	7	41	36	40	20	29	27	27
National Highway Traffic Safety Administration	93	46	49	55	53	64	67	60	70	76
Office of the Secretary of Transportation	14	11	19	11	16	9	24	13	25	51
Pipeline and Hazardous Materials Safety Administration	16	12	19	13	10	18	18	21	9	22
Department of the Treasury	76	67	85	10	38	49	47	54	48	90
Bureau of Engraving and Printing	9	9	19	9	38	46	46	54	48	90
Internal Revenue Service	64	54	65	0	0	0	0	NA	NA	NA
Mint	3	3	2	1	0	2	*	*	0	0
Department of Veterans Affairs	608	612	583	594	644	685	778	1,475	1,610	1,641
Other agencies										
Administrative Office of the U.S. Courts	NA	NA	7	8	7	6	5	4	1	0
Agency for Global Media	NA	NA	NA	NA	NA	6	5	5	8	8
Agency for International Development	60	212	193	192	167	221	194	82	221	221
Appalachian Regional Commission	1	1	*	1	1	1	1	1	1	1
Consumer Product Safety Commission	2	2	2	2	1	1	*	*	*	*
Environmental Protection Agency	538	521	513	498	492	490	493	526	531	574
Federal Communications Commission	7	5	5	7	5	2	2	0	NA	NA
Federal Trade Commission	3	2	3	6	6	6	6	8	3	10
Library of Congress	1	1	2	2	3	2	3	3	3	3
National Aeronautics and Space Administration	11,262	12,360	12,013	10,616	10,852	13,338	10,508	11,133	12,199	13,141
National Archives and Records Administration	1	1	1	1	1	1	*	NA	NA	NA
National Science Foundation	5,666	5,474	5,468	5,650	5,664	5,741	5,793	5,917	6,386	7,297
Nuclear Regulatory Commission	91	71	86	67	78	75	70	77	82	95

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Agency	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 (preliminary)
Patient-Centered Outcomes Research Trust Fund	94	244	354	1,345	492	579	470	460	522	560
Postal Service	NA	28	29	73	53	27	18	15	14	14
RESTORE Act Centers of Excellence Research Grants Program	na	na	na	na	na	na	7	4	4	4
Smithsonian Institution	231	229	237	243	263	269	276	288	297	316
Social Security Administration	60	59	129	110	72	146	70	105	79	106
Tennessee Valley Authority	NA	NA	NA	6	13	10	8	17	28	94

* = 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) 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.