

TABLE 65

Federal outlays for research, development, and R&D plant, by agency: FYs 2013–22

(Dollars in millions)

Agency	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 (preliminary)
All agencies	129,084	130,720	130,495	111,780	113,223	120,916	128,141	149,706	178,334	183,632
Departments										
Department of Agriculture	2,256	2,340	2,339	2,432	2,345	2,347	2,547	2,534	2,704	3,511
Agricultural Marketing Service	5	6	7	7	7	7	8	7	7	8
Agricultural Research Service	1,086	1,035	1,086	1,124	1,155	1,124	1,189	1,330	1,478	1,948
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	350	337	344	349	343	343	333	326	302	433
Grain Inspection, Packers, and Stockyards Administration	6	8	8	8	*	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	1,262	1,447	1,417	1,542	1,710	1,707	1,908	1,808	1,953	2,152
Census Bureau	131	201	142	170	220	110	96	111	109	149
National Institute of Standards and Technology	576	604	671	706	709	745	836	774	890	1,033
National Oceanic and Atmospheric Administration	547	634	593	655	773	844	967	915	944	958
National Telecommunications and Information Administration	8	8	11	10	8	7	9	8	10	12
Department of Defense	65,107	63,646	62,251	42,868	42,212	45,238	48,489	56,339	63,487	68,574
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	2,016	2,427	2,474
Department of the Air Force	24,858	23,316	23,442	7,260	7,600	11,194	12,035	9,243	10,726	10,454
Department of the Army	7,817	7,653	7,306	6,805	7,631	7,011	9,293	10,868	11,440	12,524
Department of the Navy	15,506	15,457	14,693	15,195	14,427	12,561	11,029	15,072	16,298	17,984
Space Force	na	na	na	na	na	na	na	4,338	4,393	4,166
Other defense agencies	14,234	14,413	13,978	10,737	9,676	11,476	12,877	11,337	14,696	17,269
Department of Education	97	345	318	212	246	235	226	227	214	321
Department of Energy	9,861	11,033	12,295	12,853	13,187	16,672	15,164	12,600	14,593	16,056
Advanced Research Projects Agency—Energy	144	187	245	238	269	251	247	270	308	373
Bonneville Power Administration	14	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	721	964	1,047	1,145	1,284	1,549	1,461	1,502	1,552	1,648
Environmental Management	9	23	24	23	29	38	29	31	23	20
Fossil Energy	376	442	650	624	636	683	682	608	708	737
National Nuclear Security Administration	3,930	4,394	4,515	4,806	4,926	4,324	5,752	3,987	4,702	4,633
Defense Programs	2,643	2,981	3,063	3,082	3,256	2,726	3,635	2,326	2,881	2,641
Naval Nuclear Propulsion Program	994	1,115	1,239	1,375	1,420	1,282	1,789	1,360	1,471	1,653

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Office of Defense Nuclear Nonproliferation	294	297	213	349	249	316	329	301	349	339
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	4,357	4,610	4,930	5,077	5,086	8,878	5,703	6,008	6,669	6,790
Department of Health and Human Services	29,431	30,564	29,624	29,663	31,386	33,219	35,427	54,910	73,019	68,013
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	18,737	34,041	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	345	372	359	486	464	456	470	443	563	639
Health Resources and Services Administration	37	38	42	42	46	34	27	25	58	46
National Institutes of Health	28,341	29,536	28,462	28,468	30,209	31,860	34,009	35,008	37,545	40,080
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	614	856	704	732	1,026	1,077	1,069	936	566	668
Coast Guard	22	25	26	22	22	18	23	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	592	757	607	646	935	966	929	806	423	539
Secret Service	NA	NA	NA	NA	NA	1	2	10	3	6
Transportation Security Administration	NA	NA	NA	NA	NA	20	21	23	30	36
Department of Housing and Urban Development	64	67	56	75	71	71	63	NA	NA	NA
Department of the Interior	705	745	813	865	864	754	804	827	876	1,146
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	13	14	13	22	29	25	24	29	40	43
Bureau of Safety and Environmental Enforcement	18	18	28	34	23	8	15	11	14	14
Fish and Wildlife Service	NA	NA	32	32	24	24	24	26	23	23

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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	681	806	719	748	716	661	707	703	670	801
Federal Aviation Administration	214	227	228	250	266	239	247	245	248	368
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	46	54	44	41	44	35	35	43	39	44
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	58
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	49	47	54	65
Bureau of Engraving and Printing	9	9	9	19	9	38	46	46	54	64
Internal Revenue Service	65	64	54	65	0	0	0	0	NA	NA
Mint	*	3	3	2	1	0	2	*	*	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	530	538	521	513	498	492	490	493	526	531
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	11,331	11,262	12,360	12,013	10,616	10,852	13,338	10,508	11,133	12,252
National Archives and Records Administration	1	1	1	1	1	1	1	*	NA	NA

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National Science Foundation	5,703	5,666	5,474	5,468	5,650	5,664	5,741	5,793	5,917	6,711
Nuclear Regulatory Commission	85	91	71	86	67	78	75	70	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	251	231	229	237	243	263	269	276	288	297
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 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 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.