

TABLE 71

## Federal obligations for research, development, and R&amp;D plant, by agency: FYs 2014–23

(Dollars in millions)

Agency	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 (preliminary)
All agencies	132,779	131,578	118,274	121,627	133,278	146,801	173,553	193,896	196,595	192,969
Departments										
Department of Agriculture	2,269	2,352	2,380	2,575	2,523	2,666	3,433	2,955	3,315	3,546
Agricultural Marketing Service	6	7	7	7	7	8	7	13	10	9
Agricultural Research Service	1,123	1,133	1,152	1,318	1,229	1,312	2,204	1,556	1,821	1,900
Animal and Plant Health Inspection Service	40	40	40	39	39	39	40	42	45	49
Economic Research Service	78	85	85	86	86	86	82	85	88	93
Foreign Agricultural Service	*	1	*	*	0	0	0	0	0	0
Forest Service	343	340	354	337	343	337	351	298	339	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	657	726	721	774	805	871	738	937	986	1,145
Natural Resources Conservation Service	NA	NA	NA	NA	NA	NA	NA	14	16	16
Rural Business-Cooperative Service	6	4	4	3	4	4	3	0	0	0
Department of Commerce	1,568	1,519	1,636	1,847	1,832	1,999	1,981	2,242	2,390	4,058
Census Bureau	259	142	200	220	110	96	111	109	202	312
National Institute of Standards and Technology	666	674	751	807	791	831	878	1,136	958	1,563
National Oceanic and Atmospheric Administration	634	692	675	812	922	1,064	984	990	1,218	2,169
National Telecommunications and Information Administration	10	12	11	8	9	8	8	7	13	14
Department of Defense	65,129	61,683	44,927	45,164	53,444	59,389	67,007	70,876	72,607	89,221
Defense Advanced Research Projects Agency	2,822	2,816	2,933	2,895	3,018	3,321	3,664	3,606	3,609	4,191
Defense Health Agency	NA	NA	NA	NA	NA	NA	2,886	2,852	2,136	2,562
Department of the Air Force	24,331	22,443	7,441	8,324	11,413	15,269	11,924	12,511	14,029	16,153
Department of the Army	7,332	6,764	6,373	7,531	8,581	10,275	10,786	11,921	12,060	15,518
Department of the Navy	15,591	15,525	16,682	15,285	15,525	15,484	19,159	16,771	17,551	22,157
Space Force	na	na	na	na	na	na	4,386	5,342	4,951	8,626
Other defense agencies	15,052	14,135	11,497	11,129	14,907	15,040	14,202	17,873	18,272	20,014
Department of Education	322	251	244	262	266	236	240	364	402	354
Department of Energy	11,296	12,343	13,343	13,584	14,894	16,622	15,778	16,121	17,977	18,586
Advanced Research Projects Agency—Energy	261	242	299	274	160	405	438	315	403	470
Bonneville Power Administration	16	16	16	14	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	104	97	112	133	146	138	140	129	114	156
Energy Efficiency and Renewable Energy	870	1,083	1,291	1,445	1,913	2,001	2,150	2,155	1,659	1,828
Environmental Management	28	25	30	31	38	26	22	30	36	43
Fossil Energy	442	540	609	620	683	682	708	720	588	963
National Nuclear Security Administration	4,532	4,528	4,819	4,740	4,531	6,078	4,558	5,180	5,219	5,546
Defense Programs	3,120	3,076	3,198	3,071	2,831	3,998	2,625	3,321	3,456	3,702
Naval Nuclear Propulsion Program	1,115	1,239	1,375	1,420	1,420	1,789	1,634	1,471	1,382	1,419

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Agency	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 (preliminary)
Office of Defense Nuclear Nonproliferation	297	213	245	249	280	292	298	388	381	426
Nuclear Energy	324	728	763	891	1,116	606	573	455	1,176	1,636
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	na	na	0	52	51	2	37	63
Office of Science	4,720	5,085	5,405	5,436	6,308	6,634	7,139	7,135	8,746	7,882
Department of Health and Human Services	30,799	30,425	32,367	33,902	37,116	39,434	61,775	77,050	74,388	49,677
Administration for Children and Families	3	2	3	2	3	2	2	5	5	9
Administration for Community Living	0	76	83	83	83	83	90	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	10	11	12	12
Biomedical Advanced Research and Development Authority	NA	NA	NA	NA	NA	736	16,962	34,041	28,414	818
Centers for Disease Control and Prevention	409	489	521	475	451	419	497	696	565	459
Centers for Medicare and Medicaid Services	34	24	30	29	231	133	224	421	419	427
Food and Drug Administration	395	382	491	380	485	519	484	597	571	641
Health Resources and Services Administration	38	42	41	46	36	33	35	42	40	50
National Institutes of Health	29,536	29,026	30,843	32,542	35,473	37,146	43,117	40,775	43,869	46,736
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	944	1,645	689	870	913	648	507	549	581	599
Coast Guard	27	21	25	23	23	21	5	10	7	7
Countering Weapons of Mass Destruction Office	84	71	63	69	30	81	37	32	66	65
Cybersecurity and Infrastructure Security Agency	na	na	na	na	7	13	8	13	6	9
Science and Technology Directorate	832	1,553	601	778	832	511	422	463	502	514
Secret Service	NA	NA	NA	NA	1	2	13	1	1	4
Transportation Security Administration	NA	NA	NA	NA	20	21	23	30	*	*
Department of Housing and Urban Development	54	58	67	64	62	61	NA	NA	NA	NA
Department of the Interior	762	809	860	868	769	831	844	915	947	1,050
Bureau of Indian Affairs	NA	NA	NA	NA	5	5	*	5	5	5
Bureau of Land Management	NA	16	18	18	21	21	21	10	12	13
Bureau of Ocean Energy Management	48	50	72	76	78	86	73	77	86	88
Bureau of Reclamation	14	13	22	29	23	24	29	40	29	46
Bureau of Safety and Environmental Enforcement	36	25	30	16	7	13	13	32	14	22
Fish and Wildlife Service	NA	30	32	33	33	33	33	33	35	44

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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	10	10	10	28	28	28
Office of Surface Mining Reclamation and Enforcement	NA	NA	NA	NA	0	*	1	0	NA	NA
Department of Justice	161	150	208	127	107	121	96	85	111	139
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	126	184	115	98	114	84	81	102	118
Department of Labor	14	14	10	5	5	4	5	3	4	4
Employee Benefits Security Administration	7	7	5	3	3	3	3	1	2	2
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	848	884	962	987	1,077	1,052	1,224	1,145	1,111	1,266
Federal Aviation Administration	297	340	426	435	404	424	470	542	511	520
Federal Highway Administration	398	313	332	352	491	452	512	410	383	463
Federal Motor Carrier Safety Administration	8	8	11	12	9	8	9	13	24	15
Federal Railroad Administration	43	47	44	46	49	41	48	44	40	49
Federal Transit Administration	8	82	35	55	10	3	40	43	13	49
National Highway Traffic Safety Administration	65	63	87	69	76	76	69	66	92	96
Office of the Secretary of Transportation	15	11	18	11	16	20	34	12	24	51
Pipeline and Hazardous Materials Safety Administration	14	22	10	7	22	28	41	16	24	22
Department of the Treasury	74	73	85	8	38	61	61	54	47	90
Bureau of Engraving and Printing	9	9	19	7	38	59	60	54	47	90
Internal Revenue Service	64	64	65	0	0	0	0	NA	NA	NA
Mint	1	*	2	1	0	2	*	*	0	0
Department of Veterans Affairs	589	662	695	682	1,349	1,508	1,565	1,698	1,696	1,930
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
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	10,881	11,413	12,462	12,638	10,814	13,616	10,574	11,267	11,750	11,858
National Archives and Records Administration	1	1	1	1	1	1	0	NA	NA	NA
National Science Foundation	5,800	5,990	6,022	5,946	6,358	6,648	6,793	7,138	7,425	8,518
Nuclear Regulatory Commission	85	92	81	67	78	75	69	80	61	83

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(Dollars in millions)

Agency	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 (preliminary)
Patient-Centered Outcomes Research Trust Fund	283	152	115	884	492	578	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	9	0	7	23
Smithsonian Institution	231	229	235	241	261	269	276	63	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 obligations in variables represented by this table appear in the table. Beginning with FY 2016, the totals reported for development obligations 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) obligations. Those funds, previously included in DOD's development obligation 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 obligations 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.