

TABLE 81

## Federal obligations for applied research, by agency: FYs 2014–23

(Dollars in millions)

Agency	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 (preliminary)
All agencies	31,604	32,298	34,812	36,600	38,392	41,101	43,758	43,630	48,414	51,014
Departments										
Department of Agriculture	1,152	1,204	1,221	1,251	1,270	1,350	1,225	1,362	1,443	1,619
Agricultural Marketing Service	3	3	3	4	4	4	3	7	10	9
Agricultural Research Service	449	453	458	468	480	517	569	604	660	743
Economic Research Service	71	85	85	86	86	86	82	85	88	93
Foreign Agricultural Service	*	*	*	*	0	0	0	0	0	0
Forest Service	187	176	191	182	169	170	172	154	161	166
Grain Inspection, Packers, and Stockyards Administration	6	6	6	*	na	na	na	na	na	na
National Agricultural Statistics Service	5	5	5	5	5	5	5	5	6	6
National Institute of Food and Agriculture	426	472	469	502	521	564	390	505	518	601
Natural Resources Conservation Service	NA	NA	NA	NA	NA	NA	NA	1	1	0
Rural Business-Cooperative Service	6	4	4	3	4	4	3	0	0	0
Department of Commerce	1,063	922	906	1,056	1,001	1,029	1,110	1,228	1,417	1,755
Census Bureau	227	41	90	56	56	29	38	56	150	222
National Institute of Standards and Technology	385	399	377	445	449	450	466	507	507	605
National Oceanic and Atmospheric Administration	442	470	428	547	488	542	598	659	748	915
National Telecommunications and Information Administration	10	12	11	8	9	8	8	7	11	13
Department of Defense	4,631	4,558	4,913	5,068	5,263	5,758	6,416	6,901	7,016	8,392
Defense Advanced Research Projects Agency	1,189	1,125	1,158	1,118	1,222	1,265	1,524	1,336	1,358	1,677
Defense Health Agency	NA	NA	NA	NA	NA	NA	153	115	135	165
Department of the Air Force	1,072	1,108	1,240	1,244	1,341	1,547	1,729	1,684	1,956	2,033
Department of the Army	983	942	1,060	1,233	1,217	1,462	1,383	1,372	1,290	1,776
Department of the Navy	872	845	924	971	953	935	1,057	1,023	1,077	1,475
Space Force	na	na	na	na	na	na	0	0	104	101
Other defense agencies	515	539	531	502	530	549	571	1,371	1,096	1,165
Department of Education	183	137	140	141	135	131	136	233	267	236
Department of Energy	4,017	4,181	4,880	5,084	5,507	6,295	5,024	5,277	5,001	5,786
Advanced Research Projects Agency—Energy	150	139	172	151	80	202	219	157	201	235
Bonneville Power Administration	3	3	3	4	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	61	57	67	74	82	72	65	50	53	62
Energy Efficiency and Renewable Energy	540	473	576	853	1,285	1,270	1,248	1,395	679	724
Environmental Management	16	8	10	10	13	9	7	10	12	14
Fossil Energy	157	194	225	224	629	626	645	689	559	938
National Nuclear Security Administration	2,714	2,637	3,127	2,997	2,556	3,568	2,279	2,485	2,672	2,865
Defense Programs	2,519	2,527	3,010	2,881	2,422	3,434	2,155	2,328	2,337	2,554
Naval Nuclear Propulsion Program	0	0	0	0	0	0	0	0	191	141
Office of Defense Nuclear Nonproliferation	195	111	117	116	135	134	124	157	144	169
Nuclear Energy	296	597	631	688	763	378	392	346	657	914
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	na	na	0	39	36	0	16	33
Office of Science	79	75	70	83	101	130	131	144	151	0
Department of Health and Human Services	14,582	15,120	16,483	16,977	18,561	19,255	22,425	21,210	25,861	25,427
Administration for Children and Families	3	2	3	2	3	2	2	5	5	9
Administration for Community Living	0	72	66	66	66	66	71	107	107	113

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Agency	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 (preliminary)
Agency for Healthcare Research and Quality	335	335	306	300	306	308	308	308	314	337
Agency for Toxic Substances and Disease Registry	1	2	2	3	2	7	10	11	12	12
Biomedical Advanced Research and Development Authority	NA	NA	NA	NA	NA	0	0	0	2,644	818
Centers for Disease Control and Prevention	309	365	409	364	322	289	371	592	461	361
Centers for Medicare and Medicaid Services	34	24	30	29	231	133	224	0	0	0
Food and Drug Administration	389	376	486	375	478	493	464	589	561	630
Health Resources and Services Administration	25	25	24	27	34	30	32	30	32	43
National Institutes of Health	13,467	13,901	15,140	15,794	17,103	17,909	20,927	19,551	21,689	23,066
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	215	205	194	264	309	233	178	187	259	169
Coast Guard	8	6	7	6	6	6	1	3	2	2
Countering Weapons of Mass Destruction Office	38	26	25	23	9	26	18	15	26	30
Cybersecurity and Infrastructure Security Agency	na	na	na	na	7	13	7	9	3	4
Science and Technology Directorate	168	173	163	235	286	188	152	159	227	133
Transportation Security Administration	NA	NA	NA	NA	0	0	0	1	*	0
Department of Housing and Urban Development	36	38	43	41	40	22	NA	NA	NA	NA
Department of the Interior	597	627	672	668	570	608	614	668	691	776
Bureau of Indian Affairs	NA	NA	NA	NA	5	5	*	5	5	5
Bureau of Land Management	NA	15	17	17	13	13	14	9	9	11
Bureau of Ocean Energy Management	48	44	60	63	66	65	59	63	66	72
Bureau of Reclamation	9	7	19	23	17	17	19	18	18	28
Bureau of Safety and Environmental Enforcement	33	17	24	8	4	7	4	19	5	14
Fish and Wildlife Service	NA	30	32	33	33	33	33	33	35	44
Geological Survey	493	506	512	515	424	459	476	495	527	575
National Park Service	14	8	8	9	9	9	9	27	27	27
Office of Surface Mining Reclamation and Enforcement	NA	NA	NA	NA	0	*	1	0	NA	NA
Department of Justice	134	123	144	85	75	84	84	71	86	109
Bureau of Prisons	2	3	3	2	1	1	2	*	*	*
Federal Bureau of Investigation	0	0	0	0	3	1	5	4	9	21
Office of Justice Programs	132	121	141	83	71	82	77	67	77	88
Department of Labor	11	10	6	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.	*	*	*	0	0	NA	NA	NA	NA	NA
Department of State	NA	2	2	2	62	62	30	40	38	38
Department of Transportation	644	663	625	696	751	746	900	821	806	957
Federal Aviation Administration	197	207	207	212	195	193	247	267	261	256
Federal Highway Administration	338	273	247	305	420	415	472	373	342	436
Federal Motor Carrier Safety Administration	7	8	10	11	9	8	9	11	21	12

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Agency	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 (preliminary)
Federal Railroad Administration	30	33	31	34	33	32	35	35	32	40
Federal Transit Administration	0	72	35	55	10	3	40	42	12	48
National Highway Traffic Safety Administration	65	63	87	69	76	76	69	66	92	96
Office of the Secretary of Transportation	4	2	4	3	3	8	12	12	24	51
Pipeline and Hazardous Materials Safety Administration	2	5	5	5	6	11	17	15	22	18
Department of the Treasury	73	72	81	1	27	36	44	41	37	48
Bureau of Engraving and Printing	9	9	14	0	27	36	44	41	37	48
Internal Revenue Service	64	64	65	0	0	0	0	NA	NA	NA
Mint	1	*	2	1	0	*	*	*	0	0
Department of Veterans Affairs	322	416	458	395	792	849	918	936	941	1,076
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	59	212	148	191	120	172	135	51	153	153
Appalachian Regional Commission	1	*	1	*	1	1	1	1	1	1
Consumer Product Safety Commission	2	2	2	2	1	1	*	*	*	*
Environmental Protection Agency	453	440	430	417	413	405	412	403	406	445
Federal Communications Commission	7	5	5	6	5	2	2	0	NA	NA
Federal Trade Commission	3	2	3	6	6	6	6	8	3	10
Library of Congress	1	1	1	1	1	1	1	1	1	*
National Aeronautics and Space Administration	2,313	2,330	2,332	2,319	2,011	2,423	2,555	2,578	2,247	1,741
National Archives and Records Administration	1	1	1	1	1	1	0	NA	NA	NA
National Science Foundation	678	696	760	779	760	784	889	934	1,033	1,466
Nuclear Regulatory Commission	85	92	80	66	76	74	66	77	61	83
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
Social Security Administration	60	59	129	110	72	146	70	105	79	106
Tennessee Valley Authority	NA	NA	NA	3	6	6	6	9	12	13

\* = 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. 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.