

TABLE 73

**Federal obligations for research and development, by agency: FYs 2015–24**

(Dollars in millions)

Agency	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 (preliminary)
All agencies	128,753	115,833	118,975	129,425	142,424	167,403	189,632	190,461	186,417	195,656
Departments										
Department of Agriculture	2,341	2,358	2,418	2,479	2,637	2,644	2,898	3,135	3,529	3,607
Agricultural Marketing Service	7	7	7	7	8	7	13	10	13	14
Agricultural Research Service	1,132	1,144	1,170	1,201	1,292	1,424	1,510	1,651	1,744	1,877
Animal and Plant Health Inspection Service	40	40	39	39	39	40	42	45	48	47
Economic Research Service	85	85	86	86	86	82	85	88	93	91
Foreign Agricultural Service	1	*	*	0	0	0	0	0	NA	NA
Forest Service	332	341	328	327	327	342	286	330	350	300
Grain Inspection, Packers, and Stockyards Administration	6	6	*	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	726	721	774	805	871	738	937	986	1,249	1,250
Natural Resources Conservation Service	NA	NA	NA	NA	NA	NA	13	16	21	18
Rural Business-Cooperative Service	4	4	3	4	4	3	0	0	NA	NA
Department of Commerce	1,331	1,351	1,612	1,439	1,535	1,622	1,813	2,011	2,348	8,777
Census Bureau	142	200	220	110	96	111	109	202	284	312
National Institute of Standards and Technology	634	629	716	686	712	735	885	862	898	7,366
National Oceanic and Atmospheric Administration	544	511	668	634	719	768	812	936	1,149	1,066
National Telecommunications and Information Administration	12	11	8	9	8	8	7	11	16	33
Department of Defense	61,514	44,749	44,873	52,973	58,780	66,695	70,707	72,352	85,890	93,001
Defense Advanced Research Projects Agency	2,816	2,933	2,895	3,018	3,321	3,664	3,606	3,609	3,779	4,739
Defense Health Agency	NA	NA	NA	NA	NA	2,870	2,852	2,136	2,738	2,883
Department of the Air Force	22,320	7,322	8,099	11,203	15,077	11,683	12,390	13,898	15,848	17,583
Department of the Army	6,764	6,372	7,531	8,581	10,275	10,786	11,921	12,060	14,470	15,799
Department of the Navy	15,490	16,644	15,236	15,446	15,341	19,114	16,734	17,488	21,302	23,409
Space Force	na	na	na	na	na	4,386	5,342	4,951	8,216	9,667
Other defense agencies	14,124	11,477	11,112	14,725	14,766	14,191	17,863	18,210	19,537	18,921
Department of Education	251	244	262	266	236	240	364	402	372	417
Department of Energy	11,391	12,209	12,308	12,832	14,376	13,453	13,453	13,697	16,145	15,435
Advanced Research Projects Agency–Energy	242	299	274	160	405	438	315	403	471	460
Bonneville Power Administration	16	16	14	NA	NA	NA	NA	NA	NA	NA
Electricity Delivery and Energy Reliability	97	112	133	146	138	140	129	114	139	176
Energy Efficiency and Renewable Energy	1,079	1,288	1,441	1,686	1,696	2,096	2,114	1,610	2,933	2,187
Environmental Management	25	30	31	38	26	22	30	36	37	39
Fossil Energy	524	609	605	662	659	679	691	559	1,012	1,000
National Nuclear Security Administration	4,271	4,568	4,435	4,057	5,741	3,984	4,213	4,011	4,078	4,054

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Defense Programs	2,975	3,107	2,966	2,572	3,660	2,298	2,703	2,838	2,832	2,705
Naval Nuclear Propulsion Program	1,083	1,216	1,220	1,206	1,789	1,387	1,140	807	841	958
Office of Defense Nuclear Nonproliferation	213	245	249	280	292	298	369	366	405	391
Nuclear Energy	728	763	891	1,116	606	573	455	804	836	811
Office of Cybersecurity, Energy Security, and Emergency Response	na	na	na	0	52	51	2	37	149	216
Office of Science	4,409	4,524	4,485	4,968	5,054	5,470	5,506	6,124	6,491	6,493
Department of Health and Human Services	30,272	32,216	33,774	36,911	39,191	60,006	76,651	74,097	52,528	49,578
Administration for Children and Families	2	3	2	3	2	2	5	5	7	7
Administration for Community Living	76	83	83	83	83	90	107	107	113	113
Advanced Research Projects Agency for Health	NA	NA	NA	NA	NA	NA	NA	NA	794	1,644
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	10	11	12	19	6
Biomedical Advanced Research and Development Authority	NA	NA	NA	NA	736	15,666	33,881	28,413	5,913	1,926
Centers for Disease Control and Prevention	489	521	475	451	419	497	696	565	454	399
Centers for Medicare and Medicaid Services	24	30	29	231	133	224	421	419	35	36
Food and Drug Administration	376	486	375	478	493	464	589	561	710	707
Health Resources and Services Administration	41	41	46	36	33	35	41	40	81	79
National Institutes of Health	28,880	30,698	32,419	35,276	36,929	42,664	40,546	43,589	43,994	44,253
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	742	572	857	912	647	507	529	589	648	553
Coast Guard	20	23	22	22	20	5	10	7	7	7
Countering Weapons of Mass Destruction Office	71	63	69	30	81	37	32	66	67	65
Cybersecurity and Infrastructure Security Agency	na	na	na	7	13	8	13	6	8	5
Science and Technology Directorate	651	486	766	832	511	422	444	491	530	461
Secret Service	NA	NA	NA	1	2	13	1	1	4	2
Transportation Security Administration	NA	NA	NA	20	21	23	29	18	32	14
Department of Housing and Urban Development	58	67	64	62	61	NA	NA	NA	NA	NA
Department of the Interior	800	857	863	766	827	837	902	940	516	509
Bureau of Indian Affairs	NA	NA	NA	5	5	*	5	5	5	5
Bureau of Land Management	16	18	18	21	21	21	10	12	13	12
Bureau of Ocean Energy Management	50	72	76	78	86	73	77	86	0	0
Bureau of Reclamation	10	21	27	21	23	27	38	28	32	30
Bureau of Safety and Environmental Enforcement	20	27	11	5	9	8	21	9	10	11
Fish and Wildlife Service	30	32	33	33	33	33	33	35	41	48
Geological Survey	666	677	688	593	640	665	691	737	409	398

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National Park Service	8	9	10	10	10	10	28	28	5	5
Office of Surface Mining Reclamation and Enforcement	NA	NA	NA	0	*	1	0	NA	NA	NA
Department of Justice	150	208	127	107	121	96	85	111	115	125
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	126	184	115	98	114	84	81	102	108	119
Department of Labor	14	10	5	5	4	5	3	4	2	2
Employee Benefits Security Administration	7	5	3	3	3	3	1	2	2	2
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	856	937	949	1,046	1,012	1,184	1,126	1,094	1,173	1,167
Federal Aviation Administration	313	403	399	375	387	432	507	478	439	460
Federal Highway Administration	313	332	352	491	452	512	410	383	435	420
Federal Motor Carrier Safety Administration	8	11	12	9	8	9	13	24	16	17
Federal Railroad Administration	44	41	44	47	39	46	42	36	50	51
Federal Transit Administration	82	35	55	10	3	40	43	13	8	8
National Highway Traffic Safety Administration	63	87	69	76	76	69	66	92	93	109
Office of the Secretary of Transportation	11	18	11	16	20	34	30	45	94	81
Pipeline and Hazardous Materials Safety Administration	22	10	7	22	28	41	16	24	38	22
Department of the Treasury	73	85	8	38	57	61	54	47	53	57
Bureau of Engraving and Printing	9	19	7	38	57	60	54	47	52	57
Internal Revenue Service	64	65	0	0	0	0	NA	NA	NA	NA
Mint	*	2	1	0	*	*	*	0	1	*
Department of Veterans Affairs	662	695	682	1,349	1,508	1,565	1,698	1,696	1,916	1,954
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	2	*
Consumer Product Safety Commission	2	2	2	1	1	*	*	*	*	*
Environmental Protection Agency	516	508	494	487	485	489	520	525	572	535
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	11,361	12,404	12,595	10,717	13,570	10,538	11,215	11,623	11,715	11,661

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Agency	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 (preliminary)
National Archives and Records Administration	1	1	1	1	1	0	NA	NA	NA	NA
National Science Foundation	5,670	5,589	5,518	5,849	5,996	6,351	6,705	6,896	7,490	6,883
Nuclear Regulatory Commission	92	81	67	78	75	69	80	61	47	46
Patient-Centered Outcomes Research Trust Fund	152	115	884	492	578	470	460	522	553	543
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	9	0	7	23	1
Smithsonian Institution	196	206	208	228	236	210	63	227	242	254
Social Security Administration	59	129	110	72	146	70	105	79	96	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 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) nor Budget Activity 8 (Software and Digital Technology Pilot Programs) 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.