TABLE 73

Federal obligations for research and development, by agency: FYs 2013–22
(Dollars in millions)

Agency	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 (preliminary)
All agencies	125,720	130,561	128,753	115,833	118,975	129,425	142,424	167,403	190,151	189,059
Departments										
Department of Agriculture	2,019	2,258	2,341	2,358	2,418	2,479	2,637	2,644	2,898	3,266
Agricultural Marketing Service	5	6	7	7	7	7	8	7	13	15
Agricultural Research Service	1,014	1,122	1,132	1,144	1,170	1,201	1,292	1,424	1,510	1,599
Animal and Plant Health Inspection Service	37	40	40	40	39	39	39	40	42	45
Economic Research Service	71	78	85	85	86	86	86	82	85	9(
Foreign Agricultural Service	1	*	1	*	*	0	0	0	0	(
Forest Service	329	335	332	341	328	327	327	342	286	34!
Grain Inspection, Packers, and Stockyards Administration	5	6	6	6	*	na	na	na	na	na
National Agricultural Statistics Service	7	9	9	9	9	9	9	9	9	1
National Institute of Food and Agriculture	546	657	726	721	774	805	871	738	937	1,148
Natural Resources Conservation Service	NA	13	13							
Rural Business-Cooperative Service	4	6	4	4	3	4	4	3	0	(
Department of Commerce	1,092	1,375	1,331	1,351	1,612	1,439	1,535	1,622	1,813	2,043
Census Bureau	131	259	142	200	220	110	96	111	109	149
National Institute of Standards and Technology	535	602	634	629	716	686	712	735	885	89
National Oceanic and Atmospheric Administration	419	504	544	511	668	634	719	768	812	990
National Telecommunications and Information Administration	7	10	12	11	8	9	8	8	7	-
Department of Defense	63,558	64,980	61,514	44,749	44,873	52,973	58,780	66,695	70,707	75,47
Defense Advanced Research Projects Agency	2,372	2,822	2,816	2,933	2,895	3,018	3,321	3,664	3,606	3,809
Defense Health Agency	na	2,870	2,852	2,53						
Department of the Air Force	23,524	24,210	22,320	7,322	8,099	11,203	15,077	11,683	12,390	13,24
Department of the Army	7,883	7,332	6,764	6,372	7,531	8,581	10,275	10,786	11,921	12,93
Department of the Navy	15,419	15,567	15,490	16,644	15,236	15,446	15,341	19,114	16,734	18,669
Space Force	na	4,386	5,342	4,593						
Other defense agencies	14,359	15,048	14,124	11,477	11,112	14,725	14,766	14,191	17,863	19,680
Department of Education	310	322	251	244	262	266	236	240	364	407
Department of Energy	9,841	10,526	11,391	12,209	12,308	12,832	14,376	13,453	13,453	13,912
Advanced Research Projects Agency—Energy	182	261	242	299	274	160	405	438	315	450
Bonneville Power Administration	14	16	16	16	14	NA	NA	NA	NA	N/
Electricity Delivery and Energy Reliability	83	104	97	112	133	146	138	140	129	127
Energy Efficiency and Renewable Energy	918	866	1,079	1,288	1,441	1,686	1,696	2,096	2,114	2,062
Environmental Management	9	28	25	30	31	38	26	22	30	3!
Fossil Energy	342	426	524	609	605	662	659	679	691	73
National Nuclear Security										
Administration	4,180	4,417	4,271	4,568	4,435	4,057	5,741	3,984	4,213	4,10
Defense Programs	2,893	3,026	2,975	3,107	2,966	2,572	3,660	2,298	2,703	2,492
Naval Nuclear Propulsion Program	994	1,094	1,083	1,216	1,220	1,206	1,789	1,387	1,140	1,246

TABLE 73

Federal obligations for research and development, by agency: FYs 2013–22
(Dollars in millions)

Agency	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 (preliminary)
Office of Defense Nuclear	004	007	010	0.45	0.40	000	000	000	260	0.00
Nonproliferation	294 263	297 324	213 728	245 763	249 891	280 1,116	292 606	298 573	369 455	368 479
Nuclear Energy Office of Cybersecurity, Energy Security, and Emergency Response	na	na	na	na	na	0	52	51	2	120
Office of Science	3,848	4,085	4,409	4,524	4,485	4,968	5,054	5,470	5,506	5,795
Department of Health and Human Services	29,382	30,656	30,272	32,216	33,774	36,911	39,191	60,006	76,651	69,153
Administration for Children and Families	2	3	2	3	2	3	2	2	5	4
Administration for Community Living	0	0	76	83	83	83	83	90	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	10	11	11
Biomedical Advanced Research and Development Authority	NA	NA	NA	NA	NA	NA	736	15,666	33,881	26,433
Centers for Disease Control and Prevention	363	409	489	521	475	451	419	497	696	661
Centers for Medicare and Medicaid Services	20	34	24	30	29	231	133	224	421	421
Food and Drug Administration	361	389	376	486	375	478	493	464	589	669
Health Resources and Services Administration	37	38	41	41	46	36	33	35	41	38
National Institutes of Health	28,215	29,400	28,880	30,698	32,419	35,276	36,929	42,664	40,546	40,436
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	391	583	742	572	857	912	647	507	529	601
Coast Guard	22	26	20	23	22	22	20	5	10	7
Countering Weapons of Mass Destruction Office	NA	84	71	63	69	30	81	37	32	39
Cybersecurity and Infrastructure Security Agency	na	na	na	na	na	7	13	8	13	11
Science and Technology Directorate	369	472	651	486	766	832	511	422	444	506
Secret Service	NA	NA	NA	NA	NA	1	2	13	1	2
Transportation Security Administration	NA	NA	NA	NA	NA	20	21	23	29	35
Department of Housing and Urban Development	67	54	58	67	64	62	61	NA	NA	NA
Department of the Interior	709	758	800	857	863	766	827	837	902	1,165
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	10	12
Bureau of Ocean Energy Management	40	48	50	72	76	78	86	73	77	84
Bureau of Reclamation	10	12	10	21	27	21	23	27	38	42
Bureau of Safety and Environmental Enforcement	16	33	20	27	11	5	9	8	21	16
Fish and Wildlife Service	NA	NA	30	32	33	33	33	33	33	33

TABLE 73

Federal obligations for research and development, by agency: FYs 2013–22
(Dollars in millions)

Agency	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 (preliminary)
Geological Survey	636	649	666	677	688	593	640	665	691	947
National Park Service	7	15	8	9	10	10	10	10	28	28
Office of Surface Mining Reclamation and Enforcement	NA	NA	NA	NA	NA	0	*	1	0	(
Department of Justice	119	161	150	208	127	107	121	96	85	88
Bureau of Prisons	11	11	11	11	10	6	7	8	*	
Federal Bureau of Investigation	39	10	13	13	2	3	1	5	4	ļ
Office of Justice Programs	69	140	126	184	115	98	114	84	81	83
Department of Labor	16	14	14	10	5	5	4	5	3	4
Employee Benefits Security Administration	10	7	7	5	3	3	3	3	1	2
Occupational Safety and Health Administration	4	4	3	1	2	2	2	2	2	,
Pension Benefit Guaranty Corp.	3	3	4	4	0	0	NA	NA	NA	N/
Department of State	1	NA	2	2	2	62	62	40	64	67
Department of Transportation	855	828	856	937	949	1,046	1,012	1,184	1,108	1,090
Federal Aviation Administration	292	280	313	403	399	375	387	432	507	510
Federal Highway Administration	397	398	313	332	352	491	452	512	410	39
Federal Motor Carrier Safety Administration	8	8	8	11	12	9	8	9	13	10
Federal Railroad Administration	50	40	44	41	44	47	39	46	42	5
Federal Transit Administration	16	8	82	35	55	10	3	40	43	3:
National Highway Traffic Safety Administration	65	65	63	87	69	76	76	69	66	5
Office of the Secretary of Transportation	11	15	11	18	11	16	20	34	12	1:
Pipeline and Hazardous Materials Safety Administration	11	14	22	10	7	22	28	41	16	24
Research and Innovative Technology Administration	5	NA	N/							
Department of the Treasury	74	74	73	85	8	38	57	61	54	6
Bureau of Engraving and Printing	9	9	9	19	7	38	57	60	54	6
Internal Revenue Service	65	64	64	65	0	0	0	0	NA	N
Mint	*	1	*	2	1	0	*	*	*	
Department of Veterans Affairs	639	589	662	695	682	1,349	1,508	1,565	1,698	1,83
Other agencies										
Administrative Office of the U.S. Courts	NA	NA	NA	7	8	7	6	5	4	
Agency for Global Media	NA	NA	NA	NA	NA	NA	6	5	5	
Agency for International Development	125	60	212	193	192	167	221	194	82	8
Appalachian Regional Commission	*	1	*	1	*	1	1	1	1	
Consumer Product Safety Commission	1	2	2	2	2	1	1	*	*	
Environmental Protection Agency	523	531	516	508	494	487	485	489	520	52
Federal Communications Commission	5	7	5	5	7	5	2	2	0	
Federal Trade Commission	3	3	2	3	6	6	6	6	8	
Library of Congress	1	1	1	2	2	3	2	3	3	
National Aeronautics and Space Administration	10,368	10,754	11,361	12,404	12,595	10,717	13,570	10,538	11,753	11,40
National Archives and Records Administration	1	1	1	1	1	1	1	0	NA	N/

TABLE 73

Federal obligations for research and development, by agency: FYs 2013–22
(Dollars in millions)

Agency	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 (preliminary)
National Science Foundation	4,956	5,403	5,670	5,589	5,518	5,849	5,996	6,351	6,705	7,036
Nuclear Regulatory Commission	76	85	92	81	67	78	75	69	80	82
Patient-Centered Outcomes Research Trust Fund	334	283	152	115	884	492	578	470	460	481
Postal Service	NA	NA	28	29	73	53	27	18	15	16
RESTORE Act Centers of Excellence Research Grants Program	na	9	0	7						
Smithsonian Institution	195	195	196	206	208	228	236	210	63	95
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 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 Systems 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.