

TABLE 36

**Federal obligations for basic research in physical sciences, by agency and detailed field: FY 2019**

(Dollars in thousands)

Agency	Total	Astronomy	Chemistry	Physics	Other physical sciences
All agencies	7,906,958.5	1,577,197.0	691,292.9	2,570,637.8	3,067,830.8
Departments					
Department of Agriculture	49,382.2	0.0	47,831.3	1,550.8	0.0
Agricultural Research Service	41,485.2	0.0	39,934.4	1,550.8	0.0
Forest Service	3,074.3	0.0	3,074.3	0.0	0.0
National Institute of Food and Agriculture	4,822.7	0.0	4,822.7	0.0	0.0
Department of Commerce	187,421.5	0.0	23,008.9	163,612.5	800.1
National Institute of Standards and Technology	187,421.5	0.0	23,008.9	163,612.5	800.1
Department of Defense	383,510.3	147.8	73,464.4	265,011.3	44,886.8
Defense Advanced Research Projects Agency	61,480.2	0.0	14,946.5	46,533.7	0.0
Department of the Air Force	191,705.0	147.8	16,409.0	166,378.3	8,769.9
Department of the Army	37,744.0	0.0	16,106.1	18,146.5	3,491.5
Department of the Navy	43,291.9	0.0	5,768.9	6,325.3	31,197.8
Other defense agencies	49,289.2	0.0	20,233.9	27,627.6	1,427.7
Department of Energy	2,203,554.5	0.0	260,896.1	1,885,050.6	57,607.8
Fossil Energy	33,000.0	0.0	33,000.0	0.0	0.0
National Nuclear Security Administration	94,696.7	0.0	7,345.3	29,743.6	57,607.8
Office of Defense Nuclear Nonproliferation	94,696.7	0.0	7,345.3	29,743.6	57,607.8
Office of Science	2,075,857.8	0.0	220,550.9	1,855,307.0	0.0
Department of Health and Human Services	45,600.3	0.0	45,031.2	0.0	569.1
National Institutes of Health	45,600.3	0.0	45,031.2	0.0	569.1
Department of Homeland Security	804.9	0.0	699.4	0.0	105.5
Science and Technology Directorate	804.9	0.0	699.4	0.0	105.5
Department of the Treasury	10,285.0	0.0	0.0	0.0	10,285.0
Bureau of Engraving and Printing	10,285.0	0.0	0.0	0.0	10,285.0
Other agencies					
National Aeronautics and Space Administration	4,008,909.2	1,270,677.3	0.0	0.0	2,738,231.9
National Science Foundation	967,499.5	256,380.8	240,361.5	255,412.7	215,344.6
Smithsonian Institution	49,991.0	49,991.0	0.0	0.0	0.0

**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. 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, FYs 2019–20.