

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2023

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
United States ^b	3,034,601,074	147,887,810	373,458,008	591,276,952	1,292,800,801	315,134,417	314,043,086
Alabama	83,778,649	584,939	751,370	53,882,774	10,847,247	5,360,260	12,352,059
Commerce, Department of	54,419,133	0	0	44,419,133	10,000,000	0	0
Conservation and Natural Resources, Department of; Wildlife and Freshwater Fisheries Division	2,637,830	0	0	2,637,830	0	0	0
Economic and Community Affairs, Department of	3,255,511	584,939	455,956	236,353	847,247	98,239	1,032,777
Education, Department of	6,883,453	0	0	0	0	0	6,883,453
Forensic Sciences, Department of	231,757	0	0	0	0	0	231,757
Geological Survey	2,971,380	0	295,414	2,675,966	0	0	0
Marine Environmental Science Consortium, Dauphin Island Sea Lab	3,913,492	0	0	3,913,492	0	0	0
Supercomputer Authority	4,204,072	0	0	0	0	0	4,204,072
Transportation, Department of	5,262,021	0	0	0	0	5,262,021	0
Alaska	19,451,112	74,015	742,896	12,740,515	268,294	5,625,392	0
Energy Authority	242,896	0	242,896	0	0	0	0
Environmental Conservation, Department of	192,715	0	0	0	192,715	0	0
Housing Finance Corporation	500,000	0	500,000	0	0	0	0
Natural Resources, Department of; Division of Geological and Geophysical Surveys	12,212,300	0	0	12,212,300	0	0	0
Railroad Corporation	3,098,866	0	0	0	0	3,098,866	0
Seafood Marketing Institute	74,015	74,015	0	0	0	0	0
Transportation and Public Facilities, Department of	3,130,320	0	0	528,215	75,579	2,526,526	0
Arizona	14,011,612	1,810,237	0	1,552,790	7,868,651	2,064,934	715,000
Agriculture, Department of	1,943,155	1,810,237	0	132,918	0	0	0
Deaf and Hard of Hearing	115,000	0	0	0	0	0	115,000
Game and Fish Department	1,419,872	0	0	1,419,872	0	0	0
Health Services, Department of	7,868,651	0	0	0	7,868,651	0	0
Juvenile Corrections, Department of	600,000	0	0	0	0	0	600,000
Transportation, Department of	2,064,934	0	0	0	0	2,064,934	0
Arkansas	9,521,076	4,804,257	50,000	2,270,144	242,686	1,936,385	217,604
Beef Council	76,605	76,605	0	0	0	0	0
Corn and Grain Sorghum Promotion Board	965,315	965,315	0	0	0	0	0
Economic Development Commission	605,749	0	50,000	95,459	242,686	0	217,604
Game and Fish Commission	1,966,097	0	0	1,966,097	0	0	0
Midwest Dairy Association, Arkansas Division	7,425	7,425	0	0	0	0	0
Natural Heritage Commission	208,588	0	0	208,588	0	0	0
Rice Research and Promotion Board	2,500,050	2,500,050	0	0	0	0	0
Soybean Promotion Board	1,221,170	1,221,170	0	0	0	0	0
Transportation, Department of	1,936,385	0	0	0	0	1,936,385	0

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State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Wheat Promotion Board	33,692	33,692	0	0	0	0	0
California	594,541,351	11,794,814	225,709,133	63,966,691	234,563,834	49,446,825	9,060,054
Air Resources Board	17,641,553	0	0	17,641,553	0	0	0
Coachella Valley Mountains	215,912	0	0	215,912	0	0	0
Conservation, Department of	1,490,818	0	0	1,101,821	34,500	0	354,497
Corrections and Rehabilitation, Department of	6,466,366	0	0	0	0	0	6,466,366
Covered California	5,765,443	0	0	0	5,765,443	0	0
Dairy Council	69,421	0	0	0	69,421	0	0
Delta Stewardship Council	5,138,976	0	0	5,138,976	0	0	0
Emergency Services Governor's Office	2,020,000	0	0	0	0	0	2,020,000
Energy Commission	170,673,193	0	170,673,193	0	0	0	0
Environmental Health Hazard Assessment, Office of	25,263,123	0	0	0	25,263,123	0	0
First 5 California (Children and Families Commission)	6,000,000	0	0	0	6,000,000	0	0
Food and Agriculture, Department of	6,187,795	6,187,795	0	0	0	0	0
Forestry and Fire Protection, Department of	16,600,000	0	0	16,600,000	0	0	0
Horse Racing Board	976,291	976,291	0	0	0	0	0
Housing and Community Development, Department of	79,000	0	0	0	0	0	79,000
Institute for Regenerative Medicine	152,261,013	0	0	0	152,261,013	0	0
Motor Vehicles, Department of	1,714,131	0	0	0	1,714,131	0	0
Parks And Recreation, Department of	3,297,362	0	0	3,297,362	0	0	0
Pesticide Regulation, Department of	20,772,486	4,630,728	0	3,383,820	12,757,938	0	0
Public Health, Department of	8,500,000	0	0	0	8,500,000	0	0
Public Utilities Commission, Executive Division	55,035,940	0	55,035,940	0	0	0	0
Resources Recycling and Recovery, Department of	250,112	0	0	250,112	0	0	0
San Diego River Conservancy	495,155	0	0	495,155	0	0	0
State Coastal Conservancy	751,289	0	0	751,289	0	0	0
State Water Resources Control Board	24,800,361	0	0	2,602,096	22,198,265	0	0
Toxic Substances Control, Department of	221,058	0	0	221,058	0	0	0
Transportation, Department of	49,446,825	0	0	0	0	49,446,825	0
Water Resources, Department of	12,407,728	0	0	12,267,537	0	0	140,191
Colorado	39,665,229	1,999,706	3,247,418	10,539,540	8,971,048	4,408,335	10,499,182
Agriculture, Department of	362,802	25,125	0	0	337,677	0	0
Economic Development and International Trade, Office of	22,767,255	1,787,500	3,203,540	401,927	7,836,906	250,000	9,287,382
Higher Education Competitive Research Authority	1,843,141	0	43,878	652,463	0	0	1,146,800
Natural Resources, Department of	6,892,590	0	0	6,842,590	0	5,000	45,000
Public Health and Environment, Department of	3,439,025	0	0	2,642,560	796,465	0	0

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State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2023

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Transportation, Department of	4,153,335	0	0	0	0	4,153,335	0
Wine Industry Development Board	207,081	187,081	0	0	0	0	20,000
Connecticut	55,924,506	4,521,698	2,928,267	12,908,890	24,164,742	3,907,816	7,493,093
Agricultural Experiment Station	14,165,952	4,521,698	0	4,822,890	4,821,364	0	0
Energy and Environmental Protection, Department of	8,086,000	0	0	8,086,000	0	0	0
Innovation Inc.	22,043,617	0	2,928,267	0	12,263,562	0	6,851,788
Mental Health and Addiction Services, Department of	7,079,816	0	0	0	7,079,816	0	0
Social Services, Department of	641,305	0	0	0	0	0	641,305
Transportation, Department of	3,907,816	0	0	0	0	3,907,816	0
Delaware	3,584,063	0	50,500	2,096,191	0	1,437,372	0
Geological Survey	1,651,264	0	0	1,608,099	0	43,165	0
Natural Resources and Environmental Control, Department of	488,092	0	0	488,092	0	0	0
Sustainable Energy Utility	50,500	0	50,500	0	0	0	0
Transportation, Department of	1,394,207	0	0	0	0	1,394,207	0
District of Columbia	10,563,918	0	0	1,848,077	7,909,103	623,962	182,776
Energy and Environment, Department of	348,077	0	0	348,077	0	0	0
Health, Department of	7,909,103	0	0	0	7,909,103	0	0
Transportation, Department of	806,738	0	0	0	0	623,962	182,776
Water and Sewer Authority	1,500,000	0	0	1,500,000	0	0	0
Florida	222,882,689	17,742,469	188,602	66,897,373	122,453,101	15,501,144	100,000
Agriculture and Consumer Services, Department of	22,629,310	15,879,671	188,602	5,846,951	689,302	24,784	0
Citrus, Department of	2,067,852	1,862,798	0	0	205,054	0	0
Environmental Protection, Department of	60,125	0	0	60,125	0	0	0
Fish and Wildlife Conservation Commission	60,990,297	0	0	60,990,297	0	0	0
Gaming Control Commission	100,000	0	0	0	0	0	100,000
Health, Department of	121,558,745	0	0	0	121,558,745	0	0
Space Florida	1,110,000	0	0	0	0	1,110,000	0
Transportation, Department of	14,366,360	0	0	0	0	14,366,360	0
Georgia	20,739,193	2,513,762	8,294,642	2,927,411	0	7,003,378	0
Commodity Commission, Agriculture, Department of	2,513,762	2,513,762	0	0	0	0	0
Natural Resources, Department of	2,297,557	0	0	2,297,557	0	0	0
Southern States Energy Board	9,213,432	0	8,294,642	629,854	0	288,936	0
Transportation, Department of	6,714,442	0	0	0	0	6,714,442	0
Hawaii	5,280,407	1,007,998	710,125	513,210	508,672	1,735,402	805,000
Agriculture, Department of	652,670	533,998	0	0	118,672	0	0
Business, Economic Development, and Tourism, Department of	2,447,125	474,000	710,125	68,000	390,000	0	805,000

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State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2023

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Land and Natural Resources, Department of	445,210	0	0	445,210	0	0	0
Transportation, Department of	1,735,402	0	0	0	0	1,735,402	0
Idaho	18,670,602	6,558,129	0	9,232,224	0	2,862,749	17,500
Agriculture, Department of	1,020,066	1,020,066	0	0	0	0	0
Barley Commission	254,646	254,646	0	0	0	0	0
Bean Commission	33,575	33,575	0	0	0	0	0
Commerce, Department of	784,945	754,945	0	0	0	30,000	0
Dairy West	2,843,786	2,843,786	0	0	0	0	0
Fish and Game, Department of	9,232,224	0	0	9,232,224	0	0	0
Oilseed Commission	66,548	66,548	0	0	0	0	0
Pea and Lentil Commission	61,179	61,179	0	0	0	0	0
Potato Commission	650,880	633,380	0	0	0	0	17,500
Transportation Department	2,832,749	0	0	0	0	2,832,749	0
Wheat Commission	890,004	890,004	0	0	0	0	0
Illinois	45,907,372	15,345	0	32,327,079	516,000	10,233,989	2,814,959
Children and Family Services, Department of	2,814,959	0	0	0	0	0	2,814,959
Great Lakes - St. Lawrence River Basin	100,000	0	0	100,000	0	0	0
Midwest Dairy Association, Illinois Division	15,345	15,345	0	0	0	0	0
Natural Resources, Department of	27,317,164	0	0	27,317,164	0	0	0
Nature Preserves Commission	1,065,000	0	0	1,065,000	0	0	0
Nutrient Research and Education Council	3,844,915	0	0	3,844,915	0	0	0
Public Health, Department of	516,000	0	0	0	516,000	0	0
Transportation, Department of	10,233,989	0	0	0	0	10,233,989	0
Indiana	24,179,311	500,000	748,289	3,866,329	0	12,624,242	6,440,451
Economic Development Corporation	9,961,588	0	748,289	0	0	2,772,848	6,440,451
Natural Resources, Department of	4,366,329	500,000	0	3,866,329	0	0	0
Transportation, Department of	9,851,394	0	0	0	0	9,851,394	0
Iowa	9,809,708	113,850	0	1,945,868	0	7,117,988	632,002
Human Rights, Criminal and Juvenile Justice Planning, Division of, Department of	632,002	0	0	0	0	0	632,002
Midwest Dairy Association, Iowa Division	113,850	113,850	0	0	0	0	0
Natural Resources, Department of	1,945,868	0	0	1,945,868	0	0	0
Transportation, Department of	7,117,988	0	0	0	0	7,117,988	0
Kansas	10,364,853	3,625,892	139,676	1,716,521	0	3,882,450	1,000,314
Corn Commission	375,941	173,904	139,676	62,361	0	0	0
Grain Sorghum Commission	553,341	553,341	0	0	0	0	0
Midwest Dairy Association, Kansas Division	13,860	13,860	0	0	0	0	0

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Soybean Commission	1,400,000	1,400,000	0	0	0	0	0
State Board of Regents	1,000,314	0	0	0	0	0	1,000,314
Sunflower Commission	11,248	11,248	0	0	0	0	0
Transportation, Department of	3,882,450	0	0	0	0	3,882,450	0
Water Office	1,805,720	151,560	0	1,654,160	0	0	0
Wheat Commission	1,321,979	1,321,979	0	0	0	0	0
Kentucky	37,765,916	588,967	143,957	7,622,379	19,723,210	8,125,749	1,561,654
Economic Development, Cabinet for	3,126,802	86,074	143,957	0	1,297,346	37,771	1,561,654
Fish and Wildlife Resources, Department of	7,566,970	0	0	7,566,970	0	0	0
Horse Racing Commission	140,153	0	0	0	140,153	0	0
Nature Preserves, Office of Kentucky	55,409	0	0	55,409	0	0	0
Postsecondary Education, Council on	11,029,618	0	0	0	11,029,618	0	0
Public Health, Department for	7,256,093	0	0	0	7,256,093	0	0
Soybean Promotion Board	502,893	502,893	0	0	0	0	0
Transportation Cabinet	8,087,978	0	0	0	0	8,087,978	0
Louisiana	31,663,714	177,190	626,150	11,664,250	1,139,543	8,562,086	9,494,495
Board of Regents	12,395,006	177,190	626,150	895,542	1,139,543	62,086	9,494,495
Coastal Protection and Restoration Authority	3,791,442	0	0	3,791,442	0	0	0
Transportation and Development, Department of	8,500,000	0	0	0	0	8,500,000	0
Wildlife and Fisheries, Department of	6,977,266	0	0	6,977,266	0	0	0
Maine	47,576,007	10,182,623	0	7,640,976	11,660,337	1,185,950	16,906,121
Agriculture, Conservation and Forestry, Department of	1,697,100	0	0	1,697,100	0	0	0
Aquaculture Innovation Center	587,473	587,473	0	0	0	0	0
Inland Fisheries and Wildlife, Department of	1,776,000	0	0	1,776,000	0	0	0
Marine Resources, Department of	2,790,668	0	0	2,790,668	0	0	0
MDI Biological Laboratory, Center for Biomedical Innovation	7,615,174	0	0	22,217	7,592,957	0	0
Technology Institute	31,923,642	9,595,150	0	1,354,991	4,067,380	0	16,906,121
Transportation, Department of	1,185,950	0	0	0	0	1,185,950	0
Maryland	46,489,603	235,327	188,034	439,038	43,682,169	1,886,593	58,442
Energy Administration	250,000	0	0	250,000	0	0	0
Health, Department of	15,000,000	0	0	0	15,000,000	0	0
Natural Resources, Department of	670,841	235,327	188,034	189,038	0	0	58,442
Technology Development Corporation	28,682,169	0	0	0	28,682,169	0	0
Transportation, Department of	1,886,593	0	0	0	0	1,886,593	0
Massachusetts	48,424,086	0	27,660,771	3,317,234	7,473,568	7,849,400	2,123,113
Clean Energy Technology Center	27,560,771	0	27,560,771	0	0	0	0

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(Dollars)

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Environmental Protection, Department of	2,125,890	0	0	2,125,890	0	0	0
Fish and Game, Department of	262,343	0	0	262,343	0	0	0
Gaming Commission	1,363,550	0	0	0	1,325,550	0	38,000
MassVentures	400,000	0	100,000	100,000	200,000	0	0
Mental Health, Department of	2,761,879	0	0	0	2,761,879	0	0
Public Health, Department of	2,306,457	0	0	0	2,306,457	0	0
Technology Park Corporation	3,143,796	0	0	479,001	579,682	0	2,085,113
Transportation, Department of	7,849,400	0	0	0	0	7,849,400	0
Water Resources Authority	650,000	0	0	350,000	300,000	0	0
Michigan	22,654,435	4,028,064	200,000	702,204	8,046,672	6,977,495	2,700,000
Agriculture and Rural Development, Department of	3,846,005	3,478,064	0	367,941	0	0	0
Economic Development Corporation	5,000,000	550,000	0	0	1,000,000	750,000	2,700,000
Environmental, Great Lakes, and Energy, Department of	4,935,956	0	200,000	334,263	4,401,693	0	0
Health and Human Services	2,644,979	0	0	0	2,644,979	0	0
Transportation, Department of	6,227,495	0	0	0	0	6,227,495	0
Minnesota	22,732,170	4,568,674	153,294	4,711,365	250,000	13,048,837	0
Agriculture, Department of	4,966,177	4,360,279	0	605,898	0	0	0
Forest Resources Council	15,684	0	0	15,684	0	0	0
Health, Department of	250,000	0	0	0	250,000	0	0
Midwest Dairy Association, Minnesota Division	208,395	208,395	0	0	0	0	0
Natural Resources, Department of	2,101,074	0	0	2,101,074	0	0	0
Pollution Control Agency	230,894	0	0	230,894	0	0	0
Transportation, Department of	14,959,946	0	153,294	1,757,815	0	13,048,837	0
Mississippi	10,030,897	207,791	0	7,059,347	0	2,763,759	0
Agriculture and Commerce, Department of	207,791	207,791	0	0	0	0	0
Environmental Quality, Department of	1,649,886	0	0	1,649,886	0	0	0
Gulf States Marine Fisheries Commission	1,064,916	0	0	1,064,916	0	0	0
Marine Resources, Department of	1,927,800	0	0	1,927,800	0	0	0
Transportation, Department of	2,763,759	0	0	0	0	2,763,759	0
Wildlife, Fisheries, and Parks, Department of	2,416,745	0	0	2,416,745	0	0	0
Missouri	17,210,400	2,751,815	0	7,666,807	3,449,500	3,342,278	0
Agriculture, Department of	1,374,152	1,374,152	0	0	0	0	0
Conservation, Department of	7,416,216	0	0	7,416,216	0	0	0
Mental Health, Department of	242,500	0	0	0	242,500	0	0
Natural Resources, Department of	250,591	0	0	250,591	0	0	0
Technology Corporation	3,806,999	599,999	0	0	3,207,000	0	0

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(Dollars)

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Transportation, Department of	3,342,278	0	0	0	0	3,342,278	0
Wine and Grape Board	777,664	777,664	0	0	0	0	0
Montana	9,956,071	3,466,168	0	4,658,143	0	1,831,760	0
Agriculture, Department of	3,466,168	3,466,168	0	0	0	0	0
Environmental Quality, Department of	63,976	0	0	63,976	0	0	0
Fish, Wildlife and Parks, Department of	4,472,983	0	0	4,472,983	0	0	0
Natural Resources and Conservation, Department of	68,874	0	0	68,874	0	0	0
Transportation, Department of	1,884,070	0	0	52,310	0	1,831,760	0
Nebraska	29,171,378	2,498,518	172,926	2,068,739	20,069,625	1,239,135	3,122,435
Agriculture, Department of	1,196,095	1,196,095	0	0	0	0	0
Corn Board	762,728	603,718	67,926	0	0	91,084	0
Dry Bean Commission	343,193	343,193	0	0	0	0	0
Economic Development, Department of	4,733,801	256,400	105,000	0	1,189,966	60,000	3,122,435
Game and Parks Commission	2,018,739	0	0	2,018,739	0	0	0
Grain Sorghum Board	3,000	3,000	0	0	0	0	0
Health and Human Services, Department of	18,879,659	0	0	0	18,879,659	0	0
Midwest Dairy Association, Nebraska Division	25,740	25,740	0	0	0	0	0
Natural Resources, Department of	50,000	0	0	50,000	0	0	0
Pea And Lentil Commission	30,372	30,372	0	0	0	0	0
Transportation, Department of	1,088,051	0	0	0	0	1,088,051	0
Wheat Board	40,000	40,000	0	0	0	0	0
Nevada	4,072,717	204,134	0	920,333	170,477	1,330,439	1,447,334
Agriculture, Department of	204,134	204,134	0	0	0	0	0
Conservation and Natural Resources, Department of	198,678	0	0	198,678	0	0	0
Economic Development, Governor's office of	2,190,905	0	0	502,255	170,477	70,839	1,447,334
Transportation, Department of	1,479,000	0	0	219,400	0	1,259,600	0
New Hampshire	2,521,016	66,591	0	1,641,411	0	723,467	89,547
Agriculture, Markets and Food, Department of	86,551	66,591	0	19,960	0	0	0
Environmental Services, Department of	1,563,535	0	0	1,563,535	0	0	0
Transportation, Department of	870,930	0	0	57,916	0	723,467	89,547
New Jersey	99,832,733	0	0	7,057,203	80,740,965	2,596,557	9,438,008
Children and Families, Department of	330,877	0	0	0	0	0	330,877
Community Affairs, Department of	15,489	0	0	0	0	0	15,489
Corrections, Department of	498,425	0	0	0	0	0	498,425
Environmental Protection, Department of	7,878,841	0	0	6,259,794	1,619,047	0	0
Health, Department of	79,121,918	0	0	0	79,121,918	0	0

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2023

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Pinelands Commission	797,409	0	0	797,409	0	0	0
Secretary of Higher Education, Office of	8,500,000	0	0	0	0	0	8,500,000
State Parole Board, New Jersey	93,217	0	0	0	0	0	93,217
Transportation, Department of	2,596,557	0	0	0	0	2,596,557	0
New Mexico	2,337,788	0	0	1,566,851	0	770,937	0
Game and Fish, Department of	1,501,778	0	0	1,501,778	0	0	0
Transportation, Department of	770,937	0	0	0	0	770,937	0
Western State Air Resources Council	65,073	0	0	65,073	0	0	0
New York	486,576,578	9,199,446	52,943,590	30,403,179	295,176,385	14,085,670	84,768,308
Agriculture and Markets, Department of	6,775,611	6,449,000	0	326,611	0	0	0
Economic Development, Department of	98,660,735	2,000,000	4,000,000	2,000,000	6,000,000	0	84,660,735
Energy Research and Development Authority	55,115,891	0	40,584,904	3,743,900	0	10,787,087	0
Environmental Conservation, Department of	11,196,566	0	0	11,196,566	0	0	0
Health, Department of	42,199,899	261,360	0	1,568,155	40,370,384	0	0
Mental Health, Office of	170,362,799	0	0	0	170,362,799	0	0
People with Developmental Disabilities, Office of	2,317,096	0	0	0	2,267,096	0	50,000
Power Authority	9,265,322	123,897	8,358,686	445,999	127,917	151,250	57,573
Roswell Park Comprehensive Cancer Center	76,048,189	0	0	0	76,048,189	0	0
State Museum	11,121,948	0	0	11,121,948	0	0	0
Thoroughbred Breeding and Development Fund Corp	365,189	365,189	0	0	0	0	0
Transportation, Department of	3,147,333	0	0	0	0	3,147,333	0
North Carolina	36,106,613	14,087,083	1,659,524	2,906,002	8,484,484	7,864,239	1,105,281
Agriculture and Consumer Services, Department of	15,422,911	13,922,911	1,500,000	0	0	0	0
Biotechnology Center	7,770,931	0	0	0	7,770,931	0	0
Natural and Cultural Resources, Department of	2,135,087	0	0	2,131,854	0	0	3,233
Science Technology & Innovation, Office of	2,048,421	7,343	159,524	65,953	713,553	0	1,102,048
Transportation, Department of	8,572,434	0	0	708,195	0	7,864,239	0
Wine and Grape Growers Council	156,829	156,829	0	0	0	0	0
North Dakota	25,822,123	3,054,183	18,378,646	659,780	874,605	1,820,328	1,034,581
Agriculture, Department of	924,605	50,000	0	0	874,605	0	0
Dry Pea and Lentil Commission	257,308	257,308	0	0	0	0	0
Game and Fish, Department of	659,780	0	0	659,780	0	0	0
Historical Society of North Dakota	1,034,581	0	0	0	0	0	1,034,581
Industrial Commission	18,378,646	0	18,378,646	0	0	0	0
Midwest Dairy Association, North Dakota Division	6,435	6,435	0	0	0	0	0
Soybean Council	1,531,730	1,531,730	0	0	0	0	0

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2023

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Transportation, Department of	1,820,328	0	0	0	0	1,820,328	0
Wheat Commission	1,208,710	1,208,710	0	0	0	0	0
Ohio	117,471,257	0	5,992,718	49,445,763	20,000,000	5,432,652	36,600,124
Development, Department of	88,778,286	0	5,975,466	46,368,696	0	0	36,434,124
Education & Workforce, Department of	166,000	0	0	0	0	0	166,000
Mental Health and Addictions Services, Department of	20,000,000	0	0	0	20,000,000	0	0
Natural Resources, Department of	2,230,912	0	17,252	2,213,660	0	0	0
Transportation, Department of	5,432,652	0	0	0	0	5,432,652	0
Water Development Authority	863,407	0	0	863,407	0	0	0
Oklahoma	28,885,260	1,050,099	1,459,455	2,389,244	17,774,197	4,740,677	1,471,588
Advancement of Science and Technology, Center for the	8,294,382	618,460	1,409,455	290,090	4,179,170	500,549	1,296,658
Agriculture, Food, and Forestry, Department of	426,689	426,689	0	0	0	0	0
Grand River Dam Authority	455,000	0	50,000	405,000	0	0	0
Health, Department of	1,314,070	0	0	0	1,314,070	0	0
Human Services, Department of	174,930	0	0	0	0	0	174,930
Midwest Dairy Association, Oklahoma Division	4,950	4,950	0	0	0	0	0
Tobacco Settlement Endowment Trust	12,280,957	0	0	0	12,280,957	0	0
Transportation, Department of	4,240,128	0	0	0	0	4,240,128	0
Wildlife Conservation, Department of	1,694,154	0	0	1,694,154	0	0	0
Oregon	40,257,488	803,998	1,250,000	22,483,060	4,980,964	8,590,054	2,149,412
Agriculture, Department of	203,998	203,998	0	0	0	0	0
Business Development Department	12,000,000	600,000	1,250,000	1,800,000	3,750,000	4,600,000	0
Education, Department of	456,836	0	0	0	0	0	456,836
Fish and Wildlife, Department of	16,166,574	0	0	16,166,574	0	0	0
Forestry, Department of	700,000	0	0	700,000	0	0	0
Geology and Mineral Industries, Department of	1,118,540	0	0	1,118,540	0	0	0
Human Services, Department of	3,077,411	0	0	0	1,230,964	153,871	1,692,576
Transportation, Department of	3,836,183	0	0	0	0	3,836,183	0
Water Resources Department	1,526,296	0	0	1,526,296	0	0	0
Watershed Enhancement Board	1,171,650	0	0	1,171,650	0	0	0
Pennsylvania	99,487,575	5,019,941	3,878,560	18,896,798	62,664,377	4,800,272	4,227,627
Agriculture, Department of	2,817,440	2,817,440	0	0	0	0	0
Community and Economic Development, Department of	21,742,628	2,202,501	3,625,000	875,000	8,522,500	2,290,000	4,227,627
Conservation and Natural Resources, Department of	682,346	0	0	682,346	0	0	0
Environmental Protection, Department of	257,919	0	253,560	4,359	0	0	0
Fish and Boat Commission	163,584	0	0	163,584	0	0	0

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2023

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Game Commission	16,916,509	0	0	16,916,509	0	0	0
Health, Department of	54,141,877	0	0	0	54,141,877	0	0
Susquehanna River Basin Commission	255,000	0	0	255,000	0	0	0
Transportation, Department of	2,510,272	0	0	0	0	2,510,272	0
Rhode Island	4,635,868	150,000	349,934	2,199,338	249,596	1,687,000	0
Commerce Corporation	749,530	150,000	349,934	0	249,596	0	0
Fish and Wildlife; Environmental Management, Department of	1,755,569	0	0	1,755,569	0	0	0
Marine Fisheries; Environmental Management, Department of	134,234	0	0	134,234	0	0	0
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	236,546	0	0	236,546	0	0	0
Transportation, Department of	1,687,000	0	0	0	0	1,687,000	0
Water Resources Board	72,989	0	0	72,989	0	0	0
South Carolina	53,419,952	2,902,813	587,345	31,915,915	14,095,324	2,339,150	1,579,405
Agriculture, Department of	1,229,068	1,179,068	50,000	0	0	0	0
Disabilities and Special Needs, Department of	12,227,417	0	0	0	12,227,417	0	0
Health and Environmental Control, Department of	1,824,716	453,263	0	0	1,371,453	0	0
Natural Resources, Department of	29,190,303	0	0	29,190,303	0	0	0
Public Service Authority	512,345	0	512,345	0	0	0	0
Research Authority	2,075,537	100,000	25,000	40,000	496,454	100,000	1,314,083
Sea Grant Consortium	4,121,416	1,170,482	0	2,685,612	0	0	265,322
Transportation, Department of	2,239,150	0	0	0	0	2,239,150	0
South Dakota	5,227,211	3,250,774	37,445	34,950	0	1,904,042	0
Corn Utilization Council	37,445	0	37,445	0	0	0	0
Midwest Dairy Association, South Dakota Division	90,090	90,090	0	0	0	0	0
Nutrient Research and Education Council	1,479,262	1,479,262	0	0	0	0	0
Oilseeds Council	204,975	170,025	0	34,950	0	0	0
Pulse Crop Council	33,610	33,610	0	0	0	0	0
Soybean Research and Promotion Council	845,866	845,866	0	0	0	0	0
Transportation, Department of	1,904,042	0	0	0	0	1,904,042	0
Weed and Pest Control Commission	47,000	47,000	0	0	0	0	0
Wheat Commission	584,921	584,921	0	0	0	0	0
Tennessee	67,457,255	0	50,851	0	0	3,234,659	64,171,745
Education, Department of	57,171,745	0	0	0	0	0	57,171,745
Environment and Conservation, Department of	50,851	0	50,851	0	0	0	0
LaunchTN	7,000,000	0	0	0	0	0	7,000,000
Transportation, Department of	3,234,659	0	0	0	0	3,234,659	0
Texas	282,261,790	2,086,663	0	11,126,708	244,640,010	24,220,565	187,844

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2023

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Agriculture, Department of	2,086,663	2,086,663	0	0	0	0	0
Alzheimer's Research and Care Consortium (TARCC)	4,384,547	0	0	0	4,384,547	0	0
Cancer Prevention and Research Institute	237,997,927	0	0	0	237,997,927	0	0
Environmental Quality, Commission on	2,255,204	0	0	2,255,204	0	0	0
Parks and Wildlife Department	5,484,621	0	0	5,296,777	0	0	187,844
State Health Services, Department of	2,257,536	0	0	0	2,257,536	0	0
Transportation, Department of	24,220,565	0	0	0	0	24,220,565	0
Water Development Board	3,574,727	0	0	3,574,727	0	0	0
Utah	10,119,476	1,317	0	7,388,968	0	2,729,191	0
Agriculture and Food, Department of	1,317	1,317	0	0	0	0	0
Environmental Quality, Department of	1,036,855	0	0	1,036,855	0	0	0
Natural Resources, Department of	6,352,113	0	0	6,352,113	0	0	0
Transportation, Department of	2,729,191	0	0	0	0	2,729,191	0
Vermont	2,833,206	0	0	79,783	1,818,036	935,387	0
Agriculture, Food, and Markets, Agency of	79,783	0	0	79,783	0	0	0
Human Services, Agency of	1,818,036	0	0	0	1,818,036	0	0
Transportation, Agency of	935,387	0	0	0	0	935,387	0
Virginia	57,260,560	3,598,429	438,598	18,131,290	5,142,800	19,463,187	10,486,256
Agriculture and Consumer Services, Department of	3,066,176	3,066,176	0	0	0	0	0
Behavioral Health and Developmental Services, Department of	5,100	0	0	0	0	0	5,100
Commonwealth Health Research Board	1,573,838	0	0	0	1,573,838	0	0
Education, Department of	1,115,000	0	0	0	0	0	1,115,000
Energy, Department of	1,321,426	0	30,000	1,291,426	0	0	0
Environmental Quality, Department of	382,014	0	0	382,014	0	0	0
Forensic Science, Department of	1,067,190	0	0	0	0	0	1,067,190
Forestry, Department of	481,630	0	0	481,630	0	0	0
Foundation for Healthy Youth	907,041	0	0	0	907,041	0	0
Innovation Partnership Corporation	18,076,226	464,253	408,598	4,413,987	2,661,921	2,878,501	7,248,966
Institute for Advanced Learning and Research	68,000	68,000	0	0	0	0	0
Marine Resources Commission	2,314,260	0	0	2,314,260	0	0	0
Natural History, Museum of	1,001,282	0	0	1,001,282	0	0	0
Rail and Public Transportation	1,004,284	0	0	0	0	1,004,284	0
Social Services, Department of	1,050,000	0	0	0	0	0	1,050,000
Transportation, Department of	15,450,372	0	0	0	0	15,450,372	0
Wildlife Resources, Department of	8,376,721	0	0	8,246,691	0	130,030	0
Washington	60,479,947	12,929,594	7,987,717	28,731,394	1,357,424	6,136,300	3,337,518

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2023

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Agriculture, Department of	3,880,349	3,880,349	0	0	0	0	0
Alfalfa Seed Commission	20,000	20,000	0	0	0	0	0
Asparagus Commission	33,000	33,000	0	0	0	0	0
Blueberry Commission	77,262	77,262	0	0	0	0	0
Commerce, Department of	7,387,066	0	7,387,066	0	0	0	0
Dairy Products Commission	20,000	20,000	0	0	0	0	0
Ecology, Department of	2,886,743	0	0	2,886,743	0	0	0
Fish and Wildlife, Department of	11,115,720	0	0	11,115,720	0	0	0
Fruit Commission	92,424	0	0	0	92,424	0	0
Grain Commission	2,050,158	2,050,158	0	0	0	0	0
Health, Department of	1,265,000	0	0	0	1,265,000	0	0
Hop Commission	141,228	141,228	0	0	0	0	0
Labor and Industries, Department of	3,337,518	0	0	0	0	0	3,337,518
Mint Commission	35,289	35,289	0	0	0	0	0
Natural Resources, Department of	11,714,582	0	600,651	11,113,931	0	0	0
Oilseeds Commission	69,887	69,887	0	0	0	0	0
Pesticide Registration, Commission on	427,997	427,997	0	0	0	0	0
Potato Commission	808,462	808,462	0	0	0	0	0
Puget Sound Partnership	3,615,000	0	0	3,615,000	0	0	0
Pulse Crops Commission	140,077	140,077	0	0	0	0	0
Red Raspberry Commission	179,481	179,481	0	0	0	0	0
Transportation, Department of	6,136,300	0	0	0	0	6,136,300	0
Tree Fruit Research Commission	4,484,773	4,484,773	0	0	0	0	0
Turfgrass Seed Commission	110,619	110,619	0	0	0	0	0
Wine Commission	451,012	451,012	0	0	0	0	0
West Virginia	8,731,717	43,500	1,640,120	3,460,082	250,155	2,086,106	1,251,754
Agriculture, Department of	43,500	43,500	0	0	0	0	0
Geological and Economic Survey	2,516,066	0	1,449,102	1,066,964	0	0	0
Higher Education Policy Commission	1,832,049	0	191,018	244,517	250,155	0	1,146,359
Justice and Community Services, Division of Administrative Services	105,395	0	0	0	0	0	105,395
Natural Resources, Division of	2,148,601	0	0	2,148,601	0	0	0
Transportation, Department of	2,086,106	0	0	0	0	2,086,106	0
Wisconsin	16,366,530	2,447,261	500,000	7,574,828	503,000	4,310,941	1,030,500
Agriculture, Trade and Consumer Protection, Department of	2,384,761	2,384,761	0	0	0	0	0
Economic Development Corporation	2,096,000	62,500	500,000	0	503,000	0	1,030,500
Natural Resources, Department of	7,574,828	0	0	7,574,828	0	0	0

TABLE 21

State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2023

(Dollars)

State and department or agency	All R&D expenditures	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other ^a
Transportation, Department of	4,310,941	0	0	0	0	4,310,941	0
Wyoming	9,886,086	619,736	3,597,455	3,481,963	70,000	746,932	1,370,000
Agriculture, Department of	549,736	549,736	0	0	0	0	0
Business Council	2,010,000	70,000	500,000	0	70,000	0	1,370,000
Enhanced Oil Recovery Institute	2,049,753	0	2,049,753	0	0	0	0
Game and Fish Department	1,991,442	0	0	1,991,442	0	0	0
State Geological Survey	2,095,403	0	1,047,702	1,047,701	0	0	0
Transportation, Department of	746,932	0	0	0	0	746,932	0
Water Development Office	442,820	0	0	442,820	0	0	0
Puerto Rico ^c	47,543,226	140,343	61,401	276,257	34,008,519	1,641,919	11,414,787
Business Development Office, Economic Development & Commerce	7,190,000	0	0	0	0	0	7,190,000
Comprehensive Cancer Center	16,142,829	0	0	0	15,374,698	0	768,131
Economic Development & Commerce	528,263	0	0	160,000	220,000	80,000	68,263
Health, Department of	17,000,000	0	0	0	17,000,000	0	0
Innovation and Technology Services	3,453,922	0	0	0	0	1,548,799	1,905,123
Institute of Statistics	1,615,810	65,343	0	0	240,446	13,120	1,296,901
Science, Technology and Research Trust	1,612,402	75,000	61,401	116,257	1,173,375	0	186,369

^a Other functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.^b U.S. total reflects all 50 states and the District of Columbia.^c Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.**Source(s):**

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2023.