

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2021

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b			
			Total	Academic institutions	Companies and individuals ^c	Other ^d
United States ^e	2,471,471,226	673,691,209	1,797,780,017	960,494,009	508,757,034	328,528,974
Alabama	29,812,345	17,295,499	12,516,846	6,296,012	120,834	6,100,000
Commerce, Department of	3,000,000	0	3,000,000	1,000,000	0	2,000,000
Conservation and Natural Resources, Department of; Wildlife and Freshwater Fisheries Division	2,300,326	707,371	1,592,955	1,592,955	0	0
Economic & Community Affairs, Department of	533,590	0	533,590	412,756	120,834	0
Education, Department of	13,196,000	12,449,000	747,000	247,000	0	500,000
Forensic Sciences, Department of	272,635	272,635	0	0	0	0
Geological Survey	2,690,719	2,690,719	0	0	0	0
Marine Environmental Science Consortium, Dauphin Island Sea Lab	1,175,774	1,175,774	0	0	0	0
Supercomputer Authority	4,432,300	0	4,432,300	832,300	0	3,600,000
Transportation, Department of	2,211,001	0	2,211,001	2,211,001	0	0
Alaska	19,671,388	13,677,498	5,993,890	1,284,854	4,013,636	695,400
Environmental Conservation, Department of	866,695	38,918	827,777	86,454	741,323	0
Housing Finance Corporation	500,000	0	500,000	0	0	500,000
Natural Resources, Department of; Division of Geological and Geophysical Surveys	9,086,400	9,086,400	0	0	0	0
Railroad Corporation	6,685,193	3,999,080	2,686,113	0	2,686,113	0
Seafood Marketing Institute	26,000	0	26,000	26,000	0	0
Transportation and Public Facilities, Department of	2,507,100	553,100	1,954,000	1,172,400	586,200	195,400
Arizona	15,011,508	3,522,494	11,489,014	6,118,524	1,195,026	4,175,464
Agriculture, Department of	1,167,546	0	1,167,546	1,095,860	71,686	0
Game and Fish Department	1,585,868	1,205,047	380,821	371,021	0	9,800
Health Services, Department of	8,467,153	0	8,467,153	4,436,167	0	4,030,986
Juvenile Corrections, Department of	610,954	610,954	0	0	0	0
Transportation, Department of	3,179,987	1,706,493	1,473,494	215,476	1,123,340	134,678
Arkansas	9,908,767	170,429	9,738,338	7,506,063	603,235	1,629,040
Agriculture, Department of	152,420	0	152,420	152,420	0	0
Beef Council	60,406	0	60,406	60,406	0	0
Corn and Grain Sorghum Promotion Board	992,000	0	992,000	992,000	0	0
Economic Development Commission	2,075,000	0	2,075,000	0	575,000	1,500,000
Game and Fish Commission	872,648	0	872,648	743,608	0	129,040
Midwest Dairy Association, Arkansas Division	9,700	0	9,700	9,700	0	0
Natural Heritage Commission	195,378	145,031	50,347	22,112	28,235	0
Rice Research and Promotion Board	2,775,000	0	2,775,000	2,775,000	0	0
Soybean Promotion Board	2,400,000	0	2,400,000	2,400,000	0	0
Transportation, Department of	276,215	25,398	250,817	250,817	0	0
Wheat Promotion Board	100,000	0	100,000	100,000	0	0
California	523,819,635	81,309,690	442,509,945	145,143,314	197,745,251	99,621,380
Air Resources Board	16,703,318	9,600,011	7,103,307	5,770,995	910,949	421,363
Children and Families Commission (First 5 California)	4,493,407	0	4,493,407	1,862,907	0	2,630,500

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Conservation, Department of	1,508,933	502,000	1,006,933	625,420	335,000	46,513
Corrections and Rehabilitation, Department of	1,139,419	0	1,139,419	0	1,139,419	0
Covered California	3,793,141	0	3,793,141	0	3,793,141	0
Dairy Council	18,672	0	18,672	18,672	0	0
Delta Stewardship Council	4,093,320	0	4,093,320	2,846,849	354,446	892,025
Energy Commission	230,900,000	23,000,000	207,900,000	14,300,000	164,400,000	29,200,000
Environmental Health Hazard Assessment, Office of	17,522,940	16,750,976	771,964	727,499	44,465	0
Food and Agriculture, Department of	4,686,177	0	4,686,177	3,400,342	1,120,467	165,368
Forestry and Fire Protection, Department of	5,500,000	0	5,500,000	0	0	5,500,000
Horse Racing Board	695,130	0	695,130	695,130	0	0
Housing and Community Development, Department of	150,000	0	150,000	150,000	0	0
Institute for Regenerative Medicine	95,739,916	0	95,739,916	63,202,755	22,240,865	10,296,296
Mental Health Services Oversight and Accountability Commission	2,500,000	0	2,500,000	2,500,000	0	0
Motor Vehicles, Department of	1,551,423	1,551,423	0	0	0	0
Parks And Recreation, Department of	1,500,000	0	1,500,000	1,500,000	0	0
Pesticide Regulation, Department of	11,642,098	9,087,241	2,554,857	822,836	0	1,732,021
Public Health, Department of	6,089,200	337,200	5,752,000	5,752,000	0	0
Public Utilities Commission, Executive Division	37,000,000	0	37,000,000	0	0	37,000,000
Rehabilitation, Department of	2,702,614	348,771	2,353,843	1,086,548	0	1,267,295
Resources Recycling and Recovery, Department of	155,635	0	155,635	64,041	91,594	0
Social Services, Department of	3,585,336	9,498	3,575,838	3,575,838	0	0
State Coastal Conservancy	835,489	0	835,489	38,237	56,087	741,165
State Water Resources Control Board	5,377,799	1,106,400	4,271,399	2,014,248	502,001	1,755,150
Toxic Substances Control, Department of	1,887,600	1,887,600	0	0	0	0
Transportation, Department of	47,716,505	15,762,848	31,953,657	24,301,850	1,372,002	6,279,805
Water Resources, Department of	14,331,563	1,365,722	12,965,841	9,887,147	1,384,815	1,693,879
Colorado	38,436,248	11,957,421	26,478,827	7,509,337	16,891,409	2,078,081
Agriculture, Department of	676,649	424,585	252,064	247,064	0	5,000
Economic Development and International Trade, Office of	21,331,814	0	21,331,814	4,400,716	16,477,098	454,000
Higher Education Competitive, Research Authority	1,748,478	0	1,748,478	1,748,478	0	0
Natural Resources, Department of	7,530,151	7,505,755	24,396	19,396	0	5,000
Public Health and Environment, Department of	2,591,744	2,384,904	206,840	206,840	0	0
Public Safety, Department of; Division of Criminal Justice	1,040,036	1,020,036	20,000	0	20,000	0
Transportation, Department of	3,274,866	622,141	2,652,725	672,808	365,836	1,614,081
Wine Industry Development Board	242,510	0	242,510	214,035	28,475	0
Connecticut	55,050,702	27,217,883	27,832,819	4,179,932	22,529,787	1,123,100
Agricultural Experiment Station	13,302,928	13,302,928	0	0	0	0

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(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b			
			Total	Academic institutions	Companies and individuals ^c	Other ^d
Energy and Environmental Protection, Department of	7,445,420	6,638,597	806,823	712,194	94,629	0
Innovation Inc.	23,315,658	0	23,315,658	880,500	22,435,158	0
Mental Health and Addiction Services, Department of	6,966,358	6,966,358	0	0	0	0
Public Health, Department of	20,967	0	20,967	20,967	0	0
Social Services, Department of	1,591,082	0	1,591,082	1,591,082	0	0
Transportation, Department of	2,408,289	310,000	2,098,289	975,189	0	1,123,100
Delaware	3,338,773	1,894,419	1,444,354	700,491	693,063	50,800
Geological Survey	1,945,219	1,894,419	50,800	0	0	50,800
Natural Resources and Environmental Control, Department of	257,515	0	257,515	257,515	0	0
Sustainable Energy Utility	46,054	0	46,054	12,100	33,954	0
Transportation, Department of	1,089,985	0	1,089,985	430,876	659,109	0
District of Columbia	8,128,666	3,705,656	4,423,010	746,489	3,481,521	195,000
Energy and Environment, Department of	207,000	0	207,000	0	12,000	195,000
Forensic Sciences, Department of	75,566	75,566	0	0	0	0
Health, Department of	5,942,318	2,502,492	3,439,826	0	3,439,826	0
Transportation, Department of	303,782	127,598	176,184	146,489	29,695	0
Water and Sewer Authority	1,600,000	1,000,000	600,000	600,000	0	0
Florida	178,360,429	50,793,339	127,567,090	73,276,602	3,326,524	50,963,964
Agriculture and Consumer Services, Department of	16,258,186	1,399,535	14,858,651	6,225,091	47,725	8,585,835
Business and Professional Regulation, Department of	100,000	0	100,000	100,000	0	0
Citrus, Department of	999,748	119,678	880,070	192,311	92,050	595,709
Environmental Protection, Department of	129,087	0	129,087	68,000	61,087	0
Fish and Wildlife Conservation Commission	57,203,692	47,842,060	9,361,632	2,706,542	1,500,662	5,154,428
Health, Department of	92,142,161	0	92,142,161	55,514,169	0	36,627,992
Space Florida	1,300,000	0	1,300,000	100,000	1,200,000	0
Transportation, Department of	10,227,555	1,432,066	8,795,489	8,370,489	425,000	0
Georgia	18,798,826	2,016,590	16,782,236	6,416,100	8,661,580	1,704,556
Natural Resources, Department of	818,245	171,752	646,493	646,493	0	0
Southern States Energy Board	11,557,770	1,844,838	9,712,932	882,802	8,661,580	168,550
Transportation, Department of	6,422,811	0	6,422,811	4,886,805	0	1,536,006
Hawaii	10,315,823	2,311,413	8,004,410	5,526,606	2,398,104	79,700
Agriculture, Department of	484,028	123,148	360,880	233,076	48,104	79,700
Business, Economic Development, and Tourism, Department of	2,538,265	2,188,265	350,000	0	350,000	0
Land and Natural Resources, Department of	280,000	0	280,000	280,000	0	0
Natural Energy Laboratory of Hawaii Authority	2,000,000	0	2,000,000	0	2,000,000	0
Transportation, Department of	5,013,530	0	5,013,530	5,013,530	0	0
Idaho	18,210,054	7,124,769	11,085,285	7,147,867	220,624	3,716,794
Agriculture, Department of	336,276	0	336,276	190,121	0	146,155
Alfalfa and Clover Seed Commission	2,300	0	2,300	2,300	0	0
Barley Commission	210,712	0	210,712	210,712	0	0

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Bean Commission	40,640	0	40,640	40,640	0	0
Beef Council	123,053	0	123,053	38,029	85,024	0
Commerce, Department of	1,020,240	0	1,020,240	1,020,240	0	0
Dairy West	2,805,947	0	2,805,947	2,166,524	0	639,423
Environmental Quality, Department of	578,257	0	578,257	0	0	578,257
Fish and Game, Department of	8,895,129	6,988,949	1,906,180	864,375	0	1,041,805
Honey Commission	3,500	0	3,500	3,500	0	0
Mint Commission	14,867	14,867	0	0	0	0
Oilseed Commission	65,000	0	65,000	65,000	0	0
Pea and Lentil Commission	103,479	0	103,479	103,479	0	0
Potato Commission	747,788	0	747,788	678,188	11,600	58,000
Transportation Department	2,095,738	120,953	1,974,785	597,631	124,000	1,253,154
Wheat Commission	1,167,128	0	1,167,128	1,167,128	0	0
Illinois	16,213,542	554,067	15,659,475	11,875,208	121,074	3,663,193
Children and Family Services, Department of	2,468,113	0	2,468,113	2,468,113	0	0
Midwest Dairy Association, Illinois Division	19,400	0	19,400	19,400	0	0
Nutrient Research and Education Council	4,000,000	0	4,000,000	4,000,000	0	0
Public Health, Department of	295,040	0	295,040	0	0	295,040
Transportation, Department of	9,430,989	554,067	8,876,922	5,387,695	121,074	3,368,153
Indiana	10,485,205	470,344	10,014,861	8,525,017	1,200,287	289,557
Economic Development Corporation	1,424,123	0	1,424,123	100,279	1,187,287	136,557
Environmental Management, Department of	16,935	0	16,935	9,967	0	6,968
Natural Resources, Department of	1,086,728	416,747	669,981	543,439	0	126,542
St. Joseph River Basin Commission	32,490	0	32,490	0	13,000	19,490
Transportation, Department of	7,924,929	53,597	7,871,332	7,871,332	0	0
Iowa	10,579,028	3,091,936	7,487,092	5,794,456	1,692,636	0
Beef Industry Council	58,898	0	58,898	58,898	0	0
Human Rights, Criminal and Juvenile Justice Planning, Division of, Department of	472,395	472,395	0	0	0	0
Midwest Dairy Association, Iowa Division	111,550	0	111,550	111,550	0	0
Natural Resources, Department of	2,994,029	2,619,541	374,488	374,488	0	0
Transportation, Department of	6,942,156	0	6,942,156	5,249,520	1,692,636	0
Kansas	15,002,554	1,294,643	13,707,911	11,810,839	120,579	1,776,493
Corn Commission	654,979	0	654,979	654,979	0	0
Grain Sorghum Commission	277,300	0	277,300	277,300	0	0
Midwest Dairy Association, Kansas Division	14,550	0	14,550	14,550	0	0
Soybean Commission	1,200,000	0	1,200,000	1,200,000	0	0
State Board of Regents	998,754	5,489	993,265	993,265	0	0
Sunflower Commission	20,000	0	20,000	10,000	0	10,000
Transportation, Department of	3,237,535	968,014	2,269,521	790,879	75,079	1,403,563
Water Office	1,011,797	321,140	690,657	327,727	0	362,930
Wheat Commission	1,378,000	0	1,378,000	1,332,500	45,500	0
Wildlife and Parks, Department of	6,209,639	0	6,209,639	6,209,639	0	0

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Kentucky	29,737,068	1,946,017	27,791,051	24,466,657	1,620,813	1,703,581
Behavioral Health, Developmental and Intellectual Disabilities	67,500	0	67,500	0	0	67,500
Economic Development, Cabinet for	3,048,739	0	3,048,739	1,648,739	1,400,000	0
Fish and Wildlife Resources, Department of	2,230,154	1,946,017	284,137	63,324	220,813	0
Horse Racing Commission	216,983	0	216,983	216,983	0	0
Nature Preserves, Office of Kentucky	175,935	0	175,935	38,969	0	136,966
Postsecondary Education, Council on	11,086,500	0	11,086,500	11,086,500	0	0
Public Health, Department for	3,561,572	0	3,561,572	3,561,572	0	0
Public Service Commission	21,000	0	21,000	0	0	21,000
Soybean Promotion Board	517,000	0	517,000	517,000	0	0
Transportation Cabinet	8,811,685	0	8,811,685	7,333,570	0	1,478,115
Louisiana	32,115,461	9,555,840	22,559,621	19,669,638	2,739,815	150,168
Agriculture and Forestry, Department of	4,946	0	4,946	4,946	0	0
Board of Regents	13,492,921	0	13,492,921	13,492,921	0	0
Coastal Protection and Restoration Authority	3,573,798	494,555	3,079,243	589,260	2,339,815	150,168
Transportation and Development, Department of	9,185,327	4,785,327	4,400,000	4,000,000	400,000	0
Wildlife and Fisheries, Department of	5,858,469	4,275,958	1,582,511	1,582,511	0	0
Maine	32,392,463	10,370,488	22,021,975	4,227,168	12,753,922	5,040,885
Agriculture, Conservation and Forestry, Department of	1,505,860	1,306,030	199,830	0	199,830	0
Inland Fisheries and Wildlife, Department of	1,080,841	763,201	317,640	317,640	0	0
Marine Resources, Department of	2,582,000	2,466,000	116,000	0	116,000	0
MDI Biological Laboratory, Center for Biomedical Innovation	8,048,966	5,335,257	2,713,709	2,421,622	0	292,087
Technology Institute	17,674,796	0	17,674,796	1,137,906	11,788,092	4,748,798
Transportation, Department of	1,500,000	500,000	1,000,000	350,000	650,000	0
Maryland	28,212,493	878,718	27,333,775	20,033,775	7,300,000	0
Health, Department of	13,500,000	0	13,500,000	13,500,000	0	0
Natural Resources, Department of	900,754	287,741	613,013	613,013	0	0
Technology Development Corporation	11,600,000	0	11,600,000	4,300,000	7,300,000	0
Transportation, Department of	2,211,739	590,977	1,620,762	1,620,762	0	0
Massachusetts	23,307,621	1,208,652	22,098,969	9,104,127	10,426,055	2,568,787
Clean Energy Technology Center	5,044,038	0	5,044,038	1,110,714	3,933,324	0
Environmental Protection, Department of	1,771,575	278,302	1,493,273	829,988	661,061	2,224
Fish and Game, Department of	915,233	604,975	310,258	85,038	0	225,220
Gaming Commission	1,480,178	81,600	1,398,578	1,120,785	99,707	178,086
Life Sciences Center	556,868	0	556,868	0	556,868	0
Massventures	3,942,167	0	3,942,167	0	3,942,167	0
Mental Health, Department of	2,579,520	43,775	2,535,745	963,000	963,000	609,745
Public Health, Department of	1,674,277	0	1,674,277	1,483,901	169,928	20,448
Technology Park Corporation	1,176,748	0	1,176,748	614,145	60,000	502,603
Transportation, Department of	3,767,017	0	3,767,017	2,696,556	40,000	1,030,461
Water Resources Authority	400,000	200,000	200,000	200,000	0	0
Michigan	29,718,391	237,018	29,481,373	11,424,715	1,648,966	16,407,692

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Agriculture and Rural Development, Department of	1,656,683	0	1,656,683	1,257,423	350,974	48,286
Environmental, Great Lakes, and Energy, Department of	1,249,610	237,018	1,012,592	795,120	217,472	0
Licensing and Regulatory Affairs	20,000,000	0	20,000,000	7,020,950	0	12,979,050
Transportation, Department of	6,812,098	0	6,812,098	2,351,222	1,080,520	3,380,356
Minnesota	22,483,420	2,458,490	20,024,930	13,942,965	3,148,933	2,933,032
Agriculture, Department of	5,408,623	876,319	4,532,304	3,567,644	161,623	803,037
Midwest Dairy Association, Minnesota Division	213,400	0	213,400	213,400	0	0
Natural Resources, Department of	1,855,011	1,561,371	293,640	269,905	23,735	0
Pollution Control Agency	9,888	0	9,888	8,078	1,810	0
Transportation, Department of	14,996,498	20,800	14,975,698	9,883,938	2,961,765	2,129,995
Mississippi	11,143,362	2,005,582	9,137,780	4,863,478	1,937,313	2,336,989
Agriculture and Commerce, Department of	152,264	0	152,264	152,264	0	0
Environmental Quality, Department of	1,267,345	105,387	1,161,958	1,161,958	0	0
Gulf States Marine Fisheries Commission	1,527,915	0	1,527,915	1,435,294	0	92,621
Marine Resources, Department of	1,110,829	910,795	200,034	200,034	0	0
Transportation, Department of	5,542,522	218,157	5,324,365	1,207,684	1,937,313	2,179,368
Wildlife, Fisheries, and Parks, Department of	1,542,487	771,243	771,244	706,244	0	65,000
Missouri	14,009,154	6,455,476	7,553,678	5,045,066	1,522,155	986,457
Agriculture, Department of	273,268	0	273,268	192,624	80,644	0
Conservation, Department of	9,627,125	6,455,476	3,171,649	2,476,223	0	695,426
Mental Health, Department of	242,500	0	242,500	242,500	0	0
Natural Resources, Department of	453,962	0	453,962	270,880	0	183,082
Technology Corporation	654,232	0	654,232	0	546,283	107,949
Transportation, Department of	2,120,015	0	2,120,015	1,224,787	895,228	0
Wine and Grape Board	638,052	0	638,052	638,052	0	0
Montana	8,447,295	2,846,129	5,601,166	3,567,797	73,279	1,960,090
Agriculture, Department of	2,841,089	0	2,841,089	2,841,089	0	0
Environmental Quality, Department of	50,304	50,304	0	0	0	0
Fish, Wildlife and Parks, Department of	3,806,115	2,669,435	1,136,680	0	0	1,136,680
Natural Resources and Conservation, Department of	16,865	0	16,865	0	16,865	0
Transportation, Department of	1,732,922	126,390	1,606,532	726,708	56,414	823,410
Nebraska	31,337,947	2,128,727	29,209,220	27,130,891	1,782,200	296,129
Agriculture, Department of	797,149	0	797,149	738,711	0	58,438
Corn Board	1,201,594	0	1,201,594	1,051,594	0	150,000
Dry Bean Commission	265,487	0	265,487	265,487	0	0
Economic Development, Department of	3,242,710	0	3,242,710	1,510,510	1,732,200	0
Game and Parks Commission	5,125,851	2,037,727	3,088,124	3,088,124	0	0
Grain Sorghum Board	3,000	0	3,000	3,000	0	0
Health and Human Services, Department of	18,564,076	0	18,564,076	18,564,076	0	0
Midwest Dairy Association, Nebraska Division	29,100	0	29,100	29,100	0	0
Natural Resources, Department of	50,000	0	50,000	0	50,000	0

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2021

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b			
			Total	Academic institutions	Companies and individuals ^c	Other ^d
Transportation, Department of	1,825,480	91,000	1,734,480	1,646,789	0	87,691
Wheat Board	233,500	0	233,500	233,500	0	0
Nevada	4,222,929	237,064	3,985,865	2,739,972	245,979	999,914
Agriculture, Department of	237,064	237,064	0	0	0	0
Economic Development, Governor's office of	1,958,195	0	1,958,195	1,958,195	0	0
Transportation, Department of	2,027,670	0	2,027,670	781,777	245,979	999,914
New Hampshire	8,675,207	27,186	8,648,021	660,646	7,019,291	968,084
Agriculture, Markets and Food, Department of	175,563	0	175,563	138,600	0	36,963
Business and Economic Affairs, Department of	7,275,000	0	7,275,000	275,000	7,000,000	0
Environmental Services, Department of	505,937	0	505,937	85,937	0	420,000
Transportation, Department of	718,707	27,186	691,521	161,109	19,291	511,121
New Jersey	12,864,404	3,006,539	9,857,865	7,921,273	667,386	1,269,206
Children and Families, Department of	250,627	192,394	58,233	0	58,233	0
Community Affairs, Department of	5,000	5,000	0	0	0	0
Corrections, Department of	309,449	309,449	0	0	0	0
Environmental Protection, Department of	3,398,000	1,997,500	1,400,500	1,117,500	233,000	50,000
Health, Department of	318,305	0	318,305	204,341	0	113,964
Pinelands Commission	576,457	465,753	110,704	0	110,704	0
Secretary of Higher Education, Office of	2,500,000	0	2,500,000	2,000,000	0	500,000
State Parole Board, New Jersey	66,212	36,443	29,769	0	29,769	0
Transit, New Jersey	61,804	0	61,804	61,804	0	0
Transportation, Department of	5,378,550	0	5,378,550	4,537,628	235,680	605,242
New Mexico	3,054,817	1,535,533	1,519,284	1,158,986	360,298	0
Cultural Affairs, Department of	108,053	108,053	0	0	0	0
Game and Fish, Department of	1,000,000	500,000	500,000	500,000	0	0
Transportation, Department of	1,586,466	927,480	658,986	658,986	0	0
Western State Air Resources Council	360,298	0	360,298	0	360,298	0
New York	417,246,309	259,432,614	157,813,695	90,758,427	35,387,607	31,667,661
Agriculture and Markets, Department of	7,194,600	2,795,000	4,399,600	4,399,600	0	0
Economic Development, Department of	27,738,133	0	27,738,133	27,738,133	0	0
Energy Research and Development Authority	58,220,185	7,195,015	51,025,170	8,516,426	29,298,629	13,210,115
Environmental Conservation, Department of	11,777,525	4,383,537	7,393,988	7,362,249	25,025	6,714
Health, Department of	65,094,944	34,949,991	30,144,953	21,019,301	3,548,469	5,577,183
Mental Health, Office of	151,456,861	131,858,494	19,598,367	19,122,318	392,733	83,316
People with Developmental Disabilities, Office of	1,614,170	1,614,170	0	0	0	0
Power Authority	14,544,465	1,397,798	13,146,667	356,334	0	12,790,333
Roswell Park Comprehensive Cancer Center	63,867,651	63,867,651	0	0	0	0
State Museum	10,297,627	9,748,833	548,794	548,794	0	0
Thoroughbred Breeding and Development Fund Corp.	399,308	0	399,308	399,308	0	0
Transportation, Department of	5,040,840	1,622,125	3,418,715	1,295,964	2,122,751	0
North Carolina	36,870,713	17,422,714	19,447,999	16,999,276	2,213,000	235,723

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2021

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b			
			Total	Academic institutions	Companies and individuals ^c	Other ^d
Agriculture and Consumer Services, Department of	15,422,911	13,922,911	1,500,000	1,300,000	200,000	0
Biotechnology Center	2,693,795	0	2,693,795	2,693,795	0	0
Environmental Quality, Department of	3,275,158	1,223,587	2,051,571	1,547,414	459,987	44,170
Natural and Cultural Resources, Department of	1,951,431	1,546,672	404,759	213,206	0	191,553
Science Technology & Innovation, Office of	1,500,000	0	1,500,000	0	1,500,000	0
Transportation, Department of	11,886,050	729,544	11,156,506	11,156,506	0	0
Wine and Grape Growers Council	141,368	0	141,368	88,355	53,013	0
North Dakota	35,139,613	294,748	34,844,865	9,364,150	24,151,033	1,329,682
Agriculture, Department of	5,360,395	0	5,360,395	58,694	5,301,701	0
Dry Pea and Lentil Commission	253,958	0	253,958	253,958	0	0
Game and Fish, Department of	900,314	0	900,314	896,042	4,272	0
Historical Society of North Dakota	247,149	232,829	14,320	14,320	0	0
Industrial Commission	24,409,679	0	24,409,679	5,433,264	18,824,025	152,390
Midwest Dairy Association, North Dakota Division	4,850	0	4,850	4,850	0	0
Soybean Council	1,420,538	0	1,420,538	1,251,303	17,735	151,500
Transportation, Department of	1,204,774	61,919	1,142,855	213,763	3,300	925,792
Wheat Commission	1,337,956	0	1,337,956	1,237,956	0	100,000
Ohio	55,336,431	1,808,996	53,527,435	11,159,815	41,045,337	1,322,283
Development, Department of	43,878,812	0	43,878,812	4,787,494	39,091,318	0
Education, Department of	230,700	15,000	215,700	215,700	0	0
Mental Health and Addictions Services, Department of	2,060,000	1,030,000	1,030,000	0	0	1,030,000
Natural Resources, Department of	2,565,498	763,996	1,801,502	1,801,502	0	0
Rail Development Commission	79,156	0	79,156	0	79,156	0
Transportation, Department of	6,197,692	0	6,197,692	4,210,119	1,874,863	112,710
Water Development Authority	324,573	0	324,573	145,000	0	179,573
Oklahoma	55,989,692	2,575,950	53,413,742	19,467,169	1,341,409	32,605,164
Advancement of Science and Technology, Center for the	34,830,643	0	34,830,643	5,390,570	1,341,409	28,098,664
Agriculture, Food, and Forestry, Department of	327,515	0	327,515	327,515	0	0
Environmental Quality, Department of	217,645	217,645	0	0	0	0
Grand River Dam Authority	525,000	315,000	210,000	210,000	0	0
Health, Department of	1,344,978	670,578	674,400	674,400	0	0
Human Services, Department of	566,539	566,539	0	0	0	0
Midwest Dairy Association, Oklahoma Division	4,850	0	4,850	4,850	0	0
Tobacco Settlement Endowment Trust	11,931,000	0	11,931,000	9,021,000	0	2,910,000
Transportation, Department of	4,692,262	770,983	3,921,279	2,324,779	0	1,596,500
Wildlife Conservation, Department of	1,549,260	35,205	1,514,055	1,514,055	0	0
Oregon	37,419,218	16,083,800	21,335,418	10,698,041	9,330,937	1,306,440
Agriculture, Department of	205,647	0	205,647	203,647	2,000	0
Business Oregon	14,300,000	0	14,300,000	5,700,000	8,600,000	0
Fish and Wildlife, Department of	12,566,339	11,125,917	1,440,422	1,430,182	0	10,240
Forestry, Department of	700,000	350,000	350,000	50,000	150,000	150,000

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2021

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b			
			Total	Academic institutions	Companies and individuals ^c	Other ^d
Geology and Mineral Industries, Department of	1,210,168	1,210,168	0	0	0	0
Human Services, Department of	2,185,495	2,185,495	0	0	0	0
Transportation, Department of	3,638,363	128,939	3,509,424	3,274,879	100,606	133,939
Water Resources Department	1,551,042	1,072,711	478,331	0	478,331	0
Watershed Enhancement Board	1,062,164	10,570	1,051,594	39,333	0	1,012,261
Pennsylvania	93,621,093	8,172,000	85,449,093	46,056,993	21,579,000	17,813,100
Agriculture, Department of	2,461,164	0	2,461,164	2,340,497	0	120,667
Community and Economic Development, Department of	21,500,000	0	21,500,000	4,500,000	17,000,000	0
Conservation and Natural Resources, Department of	309,471	253,240	56,231	0	0	56,231
Environmental Protection, Department of	1,931,821	124,196	1,807,625	886,151	780,000	141,474
Fish and Boat Commission	259,114	231,314	27,800	27,800	0	0
Game Commission	7,513,056	7,358,250	154,806	154,806	0	0
Health, Department of	55,000,914	0	55,000,914	33,771,186	3,750,000	17,479,728
Susquehanna River Basin Commission	279,000	205,000	74,000	10,000	49,000	15,000
Transportation, Department of	4,366,553	0	4,366,553	4,366,553	0	0
Rhode Island	10,226,630	8,118,721	2,107,909	529,672	1,190,412	387,825
Commerce Corporation	1,127,624	0	1,127,624	0	1,127,624	0
Fish and Wildlife; Environmental Management, Department of	5,238,690	4,690,761	547,929	361,650	0	186,279
Marine Fisheries; Environmental Management, Department of	3,601,968	3,257,112	344,856	168,022	15,288	161,546
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	67,378	67,378	0	0	0	0
Transportation, Department of	87,500	0	87,500	0	47,500	40,000
Water Resources Board	103,470	103,470	0	0	0	0
South Carolina	44,557,581	27,709,617	16,847,964	5,856,144	395,148	10,596,672
Agriculture, Department of	1,119,867	0	1,119,867	1,119,867	0	0
Disabilities and Special Needs, Department of	9,437,880	0	9,437,880	0	0	9,437,880
Health and Environmental Control, Department of	1,314,349	1,204,217	110,132	23,127	0	87,005
Mental Health, Department of	53,424	53,424	0	0	0	0
Natural Resources, Department of	24,893,262	24,621,964	271,298	242,854	0	28,444
Public Service Authority	424,350	0	424,350	30,000	0	394,350
Research Authority	2,339,441	0	2,339,441	1,944,293	395,148	0
Sea Grant Consortium	2,328,658	1,822,502	506,156	328,014	0	178,142
Transportation, Department of	2,646,350	7,510	2,638,840	2,167,989	0	470,851
South Dakota	3,193,289	359,853	2,833,436	2,051,503	361,252	420,681
Corn Utilization Council	150,006	0	150,006	150,006	0	0
Midwest Dairy Association, South Dakota Division	63,050	0	63,050	63,050	0	0
Nutrient Research and Education Council	871,090	0	871,090	871,090	0	0
Oilseeds Council	278,954	0	278,954	73,240	0	205,714
Pulse Crop Council	4,063	0	4,063	4,063	0	0

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2021

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b			
			Total	Academic institutions	Companies and individuals ^c	Other ^d
Science and Technology Authority	1,968	0	1,968	1,968	0	0
Soybean Research and Promotion Council	342,368	11,255	331,113	229,613	0	101,500
Transportation, Department of	1,178,029	348,598	829,431	354,712	361,252	113,467
Weed and Pest Control Commission	43,411	0	43,411	43,411	0	0
Wheat Commission	260,350	0	260,350	260,350	0	0
Tennessee	10,287,206	1,289,255	8,997,951	8,495,132	0	502,819
Education, Department of	3,368,383	1,054,099	2,314,284	1,811,465	0	502,819
Environment and Conservation, Department of	235,156	235,156	0	0	0	0
Transportation, Department of	6,683,667	0	6,683,667	6,683,667	0	0
Texas	255,731,862	2,686,856	253,045,006	225,812,226	26,198,074	1,034,706
Agriculture, Department of	932,510	0	932,510	621,000	0	311,510
Alzheimer's Research and Care Consortium (TARCC)	4,615,313	0	4,615,313	4,615,313	0	0
Cancer Prevention and Research Institute	216,766,526	0	216,766,526	194,059,028	22,707,498	0
Environmental Quality, Commission on	1,922,455	41,548	1,880,907	1,325,907	555,000	0
Parks and Wildlife Department	6,215,323	2,139,214	4,076,109	3,589,102	0	487,007
State Health Services, Department of	1,602,005	506,094	1,095,911	1,095,911	0	0
Transportation, Department of	20,505,965	0	20,505,965	20,505,965	0	0
Water Development Board	3,171,765	0	3,171,765	0	2,935,576	236,189
Utah	8,316,189	5,326,711	2,989,478	2,121,462	868,016	0
Environmental Quality, Department of	780,433	75,954	704,479	704,479	0	0
Health, Department of	5,350	5,350	0	0	0	0
Natural Resources, Department of	4,215,230	4,215,230	0	0	0	0
Transportation, Department of	3,315,176	1,030,177	2,284,999	1,416,983	868,016	0
Vermont	1,535,157	596,129	939,028	699,418	225,598	14,012
Agriculture, Food, and Markets, Agency of	274,477	0	274,477	53,263	221,214	0
Human Services, Agency of	163,373	163,373	0	0	0	0
Transportation, Agency of	1,097,307	432,756	664,551	646,155	4,384	14,012
Virginia	44,913,546	16,624,998	28,288,548	19,365,935	7,888,755	1,033,858
Aging and Rehabilitative Services, Department of	128,788	10,076	118,712	118,712	0	0
Agriculture and Consumer Services, Department of	2,821,841	0	2,821,841	2,360,192	0	461,649
Commonwealth Health Research Board	1,566,854	0	1,566,854	1,566,854	0	0
Conservation and Recreation, Department of	467,900	441,900	26,000	5,000	21,000	0
Education, Department of	2,495,435	518,234	1,977,201	1,977,201	0	0
Energy, Department of	1,530,387	1,480,387	50,000	25,000	25,000	0
Environmental Quality, Department of	366,645	11,129	355,516	56,690	0	298,826
Forensic Science, Department of	1,337,377	1,337,377	0	0	0	0
Forestry, Department of	701,053	685,865	15,188	15,188	0	0
Foundation for Healthy Youth	787,149	0	787,149	787,149	0	0
Innovative Technology, Center for	11,596,571	992,151	10,604,420	2,738,620	7,785,812	79,988
Institute for Advanced Learning and Research	57,000	57,000	0	0	0	0
Marine Resources Commission	1,847,815	261,607	1,586,208	1,586,208	0	0

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2021

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b			
			Total	Academic institutions	Companies and individuals ^c	Other ^d
Natural History, Museum of	900,582	900,582	0	0	0	0
Social Services, Department of	800,000	800,000	0	0	0	0
Transportation, Department of	15,943,293	9,128,690	6,814,603	6,814,603	0	0
Wildlife Resources, Department of	1,564,856	0	1,564,856	1,314,518	56,943	193,395
Washington	56,690,210	21,349,303	35,340,907	14,258,527	8,756,002	12,326,378
Agriculture, Department of	3,498,238	0	3,498,238	2,049,577	557,182	891,479
Alfalfa Seed Commission	34,000	0	34,000	34,000	0	0
Commerce, Department of	11,485,246	0	11,485,246	261,085	1,648,718	9,575,443
Cranberry Commission	16,000	0	16,000	16,000	0	0
Ecology, Department of	1,398,475	1,082,202	316,273	316,273	0	0
Fish and Wildlife, Department of	11,181,950	11,177,207	4,743	0	0	4,743
Fruit Commission	134,538	0	134,538	75,146	14,600	44,792
Grain Commission	1,860,504	0	1,860,504	1,860,504	0	0
Health, Department of	1,233,000	1,172,000	61,000	61,000	0	0
Hop Commission	272,988	0	272,988	146,988	126,000	0
Labor and Industries, Department of	3,408,658	3,408,658	0	0	0	0
Mint Commission	27,171	0	27,171	27,171	0	0
Natural Resources, Department of	7,587,114	2,469,616	5,117,498	380,319	3,908,094	829,085
Oilseeds Commission	46,152	0	46,152	40,652	5,500	0
Pesticide Registration, Commission on	357,969	0	357,969	357,969	0	0
Potato Commission	837,892	0	837,892	659,138	57,000	121,754
Puget Sound Partnership	850,000	0	850,000	73,061	52,296	724,643
Pulse Crops Commission	238,186	0	238,186	238,186	0	0
Red Raspberry Commission	220,248	0	220,248	162,902	57,346	0
Seed Potato Commission	25,639	0	25,639	0	0	25,639
Transportation, Department of	7,528,900	1,742,600	5,786,300	4,955,500	722,000	108,800
Tree Fruit Research Commission	4,096,282	297,020	3,799,262	2,220,346	1,578,916	0
Turfgrass Seed Commission	107,060	0	107,060	107,060	0	0
Wine Commission	244,000	0	244,000	215,650	28,350	0
West Virginia	9,013,091	3,378,070	5,635,021	5,397,789	237,232	0
Agriculture, Department of	166,685	166,685	0	0	0	0
Geological and Economic Survey	1,611,208	1,253,631	357,577	357,345	232	0
Higher Education Policy Commission	2,924,776	157,078	2,767,698	2,767,698	0	0
Natural Resources, Department of	2,052,676	1,800,676	252,000	15,000	237,000	0
Transportation, Department of	2,257,746	0	2,257,746	2,257,746	0	0
Wisconsin	15,239,075	4,401,850	10,837,225	4,404,511	6,126,721	305,993
Agriculture, Trade and Consumer Protection, Department of	1,558,082	0	1,558,082	961,511	463,578	132,993
Economic Development Corporation	4,625,125	0	4,625,125	0	4,625,125	0
Natural Resources, Department of	6,879,700	4,192,800	2,686,900	2,245,500	318,400	123,000
Transportation, Department of	2,176,168	209,050	1,967,118	1,197,500	719,618	50,000
Wyoming	7,278,796	2,753,475	4,525,321	1,182,954	3,199,926	142,441
Agriculture, Department of	531,634	0	531,634	263,228	125,965	142,441
Business Council	1,544,835	0	1,544,835	0	1,544,835	0
Corrections, Department of	123,280	123,280	0	0	0	0
Energy Authority	413,533	413,533	0	0	0	0
Enhanced Oil Recovery Institute	1,126,393	593,746	532,647	33,628	499,019	0
Game and Fish Department	1,968,341	1,345,407	622,934	588,819	34,115	0

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2021

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers ^a	Extramural performers ^b			
			Total	Academic institutions	Companies and individuals ^c	Other ^d
State Geological Survey	182,179	182,179	0	0	0	0
Transportation, Department of	1,105,147	95,330	1,009,817	13,825	995,992	0
Water Development Office	283,454	0	283,454	283,454	0	0

^a Intramural performers include a department's or agency's own employees who perform R&D and services performed by others in support of an internal R&D project.

^b Extramural performers are those outside the department or agency who perform R&D.

^c Companies and individuals include individuals under contract for research projects.

^d Other extramural performers include nonprofit organizations, including foundations; federal government departments and agencies; other departments or agencies within the state; other state governments; county, city, special district, or regional local governments.

^e U.S. total reflects all 50 states and the District of Columbia.

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2021.