

TABLE 20

## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
United States <sup>e</sup>	2,643,991,142	696,624,562	1,947,366,580	1,032,713,072	454,745,763	459,907,745
Alabama	88,219,991	12,081,222	76,138,769	12,354,753	691,474	63,092,542
Commerce, Department of	63,419,633	0	63,419,633	1,000,000	419,633	62,000,000
Conservation and Natural Resources, Department of; Wildlife and Freshwater Fisheries Division	1,219,039	0	1,219,039	1,219,039	0	0
Economic and Community Affairs, Department of	1,693,012	0	1,693,012	1,421,171	271,841	0
Education, Department of	6,214,729	4,918,832	1,295,897	203,355	0	1,092,542
Forensic Sciences, Department of	208,094	208,094	0	0	0	0
Geological Survey	3,563,032	3,563,032	0	0	0	0
Marine Environmental Science Consortium, Dauphin Island Sea Lab	3,684,864	3,391,264	293,600	293,600	0	0
Supercomputer Authority	4,553,801	0	4,553,801	4,553,801	0	0
Transportation, Department of	3,663,787	0	3,663,787	3,663,787	0	0
Alaska	17,157,228	11,600,345	5,556,883	1,476,494	2,512,461	1,567,928
Energy Authority	231,152	0	231,152	0	231,152	0
Environmental Conservation, Department of	534,187	59,405	474,782	135,724	339,058	0
Housing Finance Corporation	500,000	0	500,000	0	0	500,000
Natural Resources, Department of; Division of Geological and Geophysical Surveys	9,216,400	9,216,400	0	0	0	0
Railroad Corporation	3,636,619	1,868,960	1,767,659	0	1,767,659	0
Transportation and Public Facilities, Department of	3,038,870	455,580	2,583,290	1,340,770	174,592	1,067,928
Arizona	7,946,421	2,039,798	5,906,623	4,170,522	1,648,151	87,950
Agriculture, Department of	1,412,034	0	1,412,034	1,337,508	74,526	0
Game and Fish Department	1,039,447	950,977	88,470	68,590	4,980	14,900
Health Services, Department of	3,518,749	0	3,518,749	2,671,491	847,258	0
Juvenile Corrections, Department of	561,258	561,258	0	0	0	0
Transportation, Department of	1,414,933	527,563	887,370	92,933	721,387	73,050
Arkansas	9,759,708	220,653	9,539,055	7,858,723	380,332	1,300,000
Beef Council	50,605	0	50,605	50,605	0	0
Corn and Grain Sorghum Promotion Board	984,233	0	984,233	984,233	0	0
Economic Development Commission	1,675,000	0	1,675,000	0	375,000	1,300,000
Game and Fish Commission	1,159,178	0	1,159,178	1,159,178	0	0
Midwest Dairy Association, Arkansas Division	10,386	0	10,386	10,386	0	0
Natural Heritage Commission	160,921	154,039	6,882	1,550	5,332	0
Rice Research and Promotion Board	2,396,257	0	2,396,257	2,396,257	0	0
Soybean Promotion Board	2,207,956	0	2,207,956	2,207,956	0	0
Transportation, Department of	1,079,240	66,614	1,012,626	1,012,626	0	0
Wheat Promotion Board	35,932	0	35,932	35,932	0	0
California	490,081,806	87,712,398	402,369,408	128,557,417	91,219,461	182,592,530
Air Resources Board	17,251,207	10,750,232	6,500,975	6,031,375	340,237	129,363
Children and Families Commission (First 5 California)	7,739,521	482,323	7,257,198	618,328	0	6,638,870
Conservation, Department of	1,259,204	838,198	421,006	287,292	4,318	129,396

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## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
Corrections and Rehabilitation, Department of	2,301,034	0	2,301,034	0	2,301,034	0
Covered California	3,799,165	0	3,799,165	947,165	2,852,000	0
Dairy Council	50,373	0	50,373	50,373	0	0
Delta Stewardship Council	5,201,966	0	5,201,966	3,623,121	761,198	817,647
Earthquake Authority	539,832	537,832	2,000	0	0	2,000
Energy Commission	130,400,000	19,700,000	110,700,000	4,200,000	61,500,000	45,000,000
Environmental Health Hazard Assessment, Office of	19,844,985	18,649,950	1,195,035	1,184,985	10,050	0
Food and Agriculture, Department of	5,012,081	0	5,012,081	3,833,095	0	1,178,986
Forestry and Fire Protection, Department of	21,200,000	2,500,000	18,700,000	12,600,000	0	6,100,000
Horse Racing Board	710,513	0	710,513	710,513	0	0
Housing and Community Development, Department of	500,000	500,000	0	0	0	0
Institute for Regenerative Medicine	122,808,196	0	122,808,196	57,682,110	20,830,491	44,295,595
Mental Health Services Oversight and Accountability Commission	2,500,000	2,500,000	0	0	0	0
Motor Vehicles, Department of	1,776,392	1,761,138	15,254	15,254	0	0
Parks And Recreation, Department of	1,515,260	0	1,515,260	1,515,260	0	0
Pesticide Regulation, Department of	14,058,135	10,955,679	3,102,456	921,250	0	2,181,206
Public Health, Department of	6,155,476	442,500	5,712,976	5,712,976	0	0
Public Utilities Commission, Executive Division	61,374,566	0	61,374,566	0	0	61,374,566
Rehabilitation, Department of	1,619,410	812,759	806,651	806,651	0	0
State Coastal Conservancy	942,260	0	942,260	159,736	119,474	663,050
State Water Resources Control Board	8,564,983	740,800	7,824,183	1,566,738	943,659	5,313,786
Toxic Substances Control, Department of	645,987	645,987	0	0	0	0
Transportation, Department of	39,260,000	15,795,000	23,465,000	15,685,000	731,000	7,049,000
Water Resources, Department of	13,051,260	100,000	12,951,260	10,406,195	826,000	1,719,065
Colorado	38,058,349	9,393,492	28,664,857	10,769,660	13,882,986	4,012,211
Agriculture, Department of	581,906	353,700	228,206	223,206	0	5,000
Economic Development and International Trade, Office of	20,576,916	0	20,576,916	4,822,844	13,360,704	2,393,368
Higher Education Competitive, Research Authority	1,443,141	0	1,443,141	1,443,141	0	0
Higher Education, Department of	2,425,000	0	2,425,000	2,425,000	0	0
Natural Resources, Department of	5,062,623	5,031,147	31,476	26,476	0	5,000
Public Health and Environment, Department of	3,363,873	2,575,872	788,001	788,001	0	0
Public Safety, Department of; Division of Criminal Justice	985,007	742,007	243,000	0	243,000	0
Transportation, Department of	3,390,841	690,766	2,700,075	811,950	279,282	1,608,843
Wine Industry Development Board	229,042	0	229,042	229,042	0	0
Connecticut	60,578,799	28,200,758	32,378,041	2,428,369	28,345,413	1,604,259
Agricultural Experiment Station	13,756,272	13,756,272	0	0	0	0
Energy and Environmental Protection, Department of	7,320,822	6,524,227	796,595	784,140	0	12,455
Innovation Inc.	28,919,435	0	28,919,435	365,144	28,345,413	208,878

TABLE 20

## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
Mental Health and Addiction Services, Department of	7,217,443	7,217,443	0	0	0	0
Public Health, Department of	1,780	0	1,780	1,780	0	0
Social Services, Department of	391,305	391,305	0	0	0	0
Transportation, Department of	2,971,742	311,511	2,660,231	1,277,305	0	1,382,926
Delaware	3,446,375	1,568,167	1,878,208	1,108,165	711,743	58,300
Geological Survey	1,618,967	1,568,167	50,800	0	0	50,800
Natural Resources and Environmental Control, Department of	646,147	0	646,147	646,147	0	0
Sustainable Energy Utility	10,495	0	10,495	0	2,995	7,500
Transportation, Department of	1,170,766	0	1,170,766	462,018	708,748	0
District of Columbia	10,560,754	4,320,240	6,240,514	712,013	3,629,822	1,898,679
Energy and Environment, Department of	476,600	0	476,600	141,600	0	335,000
Health, Department of	8,244,141	3,194,604	5,049,537	0	3,539,245	1,510,292
Transportation, Department of	340,013	125,636	214,377	120,413	40,577	53,387
Water and Sewer Authority	1,500,000	1,000,000	500,000	450,000	50,000	0
Florida	180,145,644	51,395,556	128,750,088	80,421,221	3,864,156	44,464,711
Agriculture and Consumer Services, Department of	18,305,424	927,308	17,378,116	8,540,995	119,270	8,717,851
Citrus, Department of	850,364	115,111	735,253	143,203	92,050	500,000
Environmental Protection, Department of	68,838	0	68,838	0	68,838	0
Fish and Wildlife Conservation Commission	55,428,229	49,103,851	6,324,378	2,120,146	1,908,741	2,295,491
Gaming Control Commission	100,000	0	100,000	100,000	0	0
Health, Department of	91,360,963	0	91,360,963	58,409,594	0	32,951,369
Space Florida	1,305,000	0	1,305,000	110,000	1,195,000	0
Transportation, Department of	12,726,826	1,249,286	11,477,540	10,997,283	480,257	0
Georgia	24,988,379	2,884,258	22,104,121	6,905,171	11,334,225	3,864,725
Natural Resources, Department of	1,452,630	127,945	1,324,685	1,324,685	0	0
Southern States Energy Board	19,326,825	2,756,313	16,570,512	3,136,910	11,334,225	2,099,377
Transportation, Department of	4,208,924	0	4,208,924	2,443,576	0	1,765,348
Hawaii	6,337,851	201,790	6,136,061	3,980,790	2,085,271	70,000
Agriculture, Department of	1,098,423	199,748	898,675	851,404	47,271	0
Business, Economic Development, and Tourism, Department of	2,022,042	2,042	2,020,000	0	2,020,000	0
Land and Natural Resources, Department of	424,000	0	424,000	336,000	18,000	70,000
Natural Energy Laboratory of Hawaii Authority	0	0	0	0	0	0
Transportation, Department of	2,793,386	0	2,793,386	2,793,386	0	0
Idaho	20,444,262	7,278,248	13,166,014	9,211,146	549,931	3,404,937
Agriculture, Department of	1,623,399	0	1,623,399	743,413	0	879,986
Barley Commission	367,497	0	367,497	367,497	0	0
Bean Commission	33,833	0	33,833	33,833	0	0
Beef Council	211,642	0	211,642	192,442	19,200	0
Commerce, Department of	1,289,693	0	1,289,693	1,289,693	0	0
Dairy West	2,999,460	0	2,999,460	2,999,460	0	0
Fish and Game, Department of	9,041,798	7,151,744	1,890,054	907,601	0	982,453
Oilseed Commission	72,645	0	72,645	52,645	20,000	0

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## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
Pea and Lentil Commission	177,697	0	177,697	177,697	0	0
Potato Commission	878,871	0	878,871	725,121	95,750	58,000
Transportation Department	2,467,766	126,504	2,341,262	441,783	414,981	1,484,498
Wheat Commission	1,279,961	0	1,279,961	1,279,961	0	0
Illinois	16,463,839	554,067	15,909,772	13,980,583	435,210	1,493,979
Children and Family Services, Department of	2,347,655	0	2,347,655	2,347,655	0	0
Midwest Dairy Association, Illinois Division	20,772	0	20,772	20,772	0	0
Nutrient Research and Education Council	3,912,499	0	3,912,499	3,912,499	0	0
Public Health, Department of	400,000	0	400,000	0	0	400,000
Transportation, Department of	9,782,913	554,067	9,228,846	7,699,657	435,210	1,093,979
Indiana	12,104,856	660,237	11,444,619	8,610,791	2,833,828	0
Economic Development Corporation	3,399,111	0	3,399,111	565,283	2,833,828	0
Natural Resources, Department of	852,281	586,968	265,313	265,313	0	0
Transportation, Department of	7,853,464	73,269	7,780,195	7,780,195	0	0
Iowa	10,636,720	2,912,086	7,724,634	6,716,097	989,049	19,488
Beef Industry Council	60,218	0	60,218	60,218	0	0
Human Rights, Criminal and Juvenile Justice Planning, Division of, Department of	626,038	626,038	0	0	0	0
Midwest Dairy Association, Iowa Division	119,439	0	119,439	119,439	0	0
Natural Resources, Department of	3,688,099	2,286,048	1,402,051	1,261,613	120,950	19,488
Transportation, Department of	6,142,926	0	6,142,926	5,274,827	868,099	0
Kansas	17,633,236	1,500,273	16,132,963	13,017,281	202,079	2,913,603
Corn Commission	311,744	0	311,744	311,744	0	0
Grain Sorghum Commission	700,000	0	700,000	700,000	0	0
Midwest Dairy Association, Kansas Division	15,579	0	15,579	15,579	0	0
Soybean Commission	1,248,862	0	1,248,862	931,346	0	317,516
State Board of Regents	997,727	4,462	993,265	993,265	0	0
Sunflower Commission	20,000	0	20,000	10,000	0	10,000
Transportation, Department of	3,765,115	1,061,231	2,703,884	1,379,749	104,079	1,220,056
Water Office	1,207,240	434,580	772,660	430,629	0	342,031
Wheat Commission	2,245,000	0	2,245,000	1,123,000	98,000	1,024,000
Wildlife and Parks, Department of	7,121,969	0	7,121,969	7,121,969	0	0
Kentucky	34,881,537	4,434,431	30,447,106	24,590,319	4,084,159	1,772,628
Economic Development, Cabinet for	3,447,809	0	3,447,809	1,648,739	1,799,070	0
Fish and Wildlife Resources, Department of	6,989,041	4,428,101	2,560,940	274,438	2,285,089	1,413
Horse Racing Commission	70,000	0	70,000	55,000	0	15,000
Nature Preserves, Office of Kentucky	42,320	6,330	35,990	35,990	0	0
Postsecondary Education, Council on	11,572,700	0	11,572,700	11,572,700	0	0
Public Health, Department for	3,767,275	0	3,767,275	3,767,275	0	0
Soybean Promotion Board	210,727	0	210,727	210,727	0	0
Transportation Cabinet	8,781,665	0	8,781,665	7,025,450	0	1,756,215
Louisiana	31,843,839	10,033,831	21,810,008	18,458,516	3,004,727	346,765
Board of Regents	12,613,939	0	12,613,939	12,613,939	0	0

TABLE 20

## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
Coastal Protection and Restoration Authority	3,681,012	509,392	3,171,620	606,938	2,410,009	154,673
Transportation and Development, Department of	10,000,000	5,000,000	5,000,000	4,500,000	500,000	0
Wildlife and Fisheries, Department of	5,548,888	4,524,439	1,024,449	737,639	94,718	192,092
Maine	24,812,470	12,208,306	12,604,164	4,385,530	6,971,533	1,247,101
Agriculture, Conservation and Forestry, Department of	1,889,382	1,682,997	206,385	12,368	194,017	0
Aquaculture Innovation Center	555,101	435,877	119,224	59,612	0	59,612
Inland Fisheries and Wildlife, Department of	1,080,841	763,201	317,640	317,640	0	0
Marine Resources, Department of	2,712,300	2,589,300	123,000	0	123,000	0
MDI Biological Laboratory, Center for Biomedical Innovation	9,143,683	6,236,931	2,906,752	2,468,630	0	438,122
Technology Institute	7,931,163	0	7,931,163	927,280	6,254,516	749,367
Transportation, Department of	1,500,000	500,000	1,000,000	600,000	400,000	0
Maryland	31,280,581	864,022	30,416,559	25,771,680	2,612,842	2,032,037
Energy Administration	2,000,000	0	2,000,000	0	0	2,000,000
Health, Department of	15,000,000	0	15,000,000	15,000,000	0	0
Natural Resources, Department of	410,466	272,429	138,037	88,000	18,000	32,037
Technology Development Corporation	11,227,112	0	11,227,112	9,582,270	1,644,842	0
Transportation, Department of	2,643,003	591,593	2,051,410	1,101,410	950,000	0
Massachusetts	26,616,423	1,636,998	24,979,425	10,387,510	10,092,864	4,499,051
Clean Energy Technology Center	6,848,706	0	6,848,706	765,531	4,948,191	1,134,984
Environmental Protection, Department of	1,771,575	278,302	1,493,273	829,988	661,061	2,224
Fish and Game, Department of	1,064,180	842,896	221,284	119,903	2,440	98,941
Gaming Commission	2,831,240	215,800	2,615,440	2,165,440	271,000	179,000
MassVentures	3,400,000	0	3,400,000	400,000	3,000,000	0
Mental Health, Department of	2,306,184	0	2,306,184	1,147,969	879,776	278,439
Public Health, Department of	1,888,570	0	1,888,570	1,590,226	277,896	20,448
Technology Park Corporation	1,805,968	0	1,805,968	1,141,453	22,500	642,015
Transportation, Department of	4,050,000	0	4,050,000	2,227,000	30,000	1,793,000
Water Resources Authority	650,000	300,000	350,000	0	0	350,000
Michigan	30,525,914	254,848	30,271,066	13,679,420	619,972	15,971,674
Agriculture and Rural Development, Department of	3,198,958	68,044	3,130,914	2,801,540	0	329,374
Environmental, Great Lakes, and Energy, Department of	438,854	186,804	252,050	169,268	82,782	0
Health and Human Services	662,258	0	662,258	662,258	0	0
Licensing and Regulatory Affairs	20,000,000	0	20,000,000	7,020,950	0	12,979,050
Transportation, Department of	6,225,844	0	6,225,844	3,025,404	537,190	2,663,250
Minnesota	25,093,959	3,038,564	22,055,395	14,721,856	4,570,534	2,763,005
Agriculture, Department of	5,160,630	996,789	4,163,841	3,469,866	242,003	451,972
Forest Resources Council	75,000	0	75,000	75,000	0	0
Midwest Dairy Association, Minnesota Division	228,492	0	228,492	228,492	0	0
Natural Resources, Department of	2,220,492	2,041,775	178,717	174,428	4,289	0
Pollution Control Agency	233,164	0	233,164	0	204,071	29,093
Transportation, Department of	17,176,181	0	17,176,181	10,774,070	4,120,171	2,281,940
Mississippi	9,788,541	2,820,168	6,968,373	3,754,922	1,028,977	2,184,474

TABLE 20

## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
Agriculture and Commerce, Department of	114,017	0	114,017	114,017	0	0
Environmental Quality, Department of	833,599	97,936	735,663	735,663	0	0
Gulf States Marine Fisheries Commission	927,742	91,946	835,796	569,178	52,018	214,600
Marine Resources, Department of	2,131,369	1,796,095	335,274	335,274	0	0
Transportation, Department of	3,300,333	100,000	3,200,333	350,000	944,459	1,905,874
Wildlife, Fisheries, and Parks, Department of	2,481,481	734,191	1,747,290	1,650,790	32,500	64,000
Missouri	12,430,684	4,338,958	8,091,726	6,267,780	1,397,709	426,237
Agriculture, Department of	1,197,350	0	1,197,350	992,495	204,855	0
Conservation, Department of	7,039,079	4,338,958	2,700,121	2,343,013	0	357,108
Mental Health, Department of	242,500	0	242,500	242,500	0	0
Natural Resources, Department of	174,359	0	174,359	105,230	0	69,129
Technology Corporation	500,000	0	500,000	0	500,000	0
Transportation, Department of	2,646,956	0	2,646,956	1,954,102	692,854	0
Wine and Grape Board	630,440	0	630,440	630,440	0	0
Montana	9,752,216	3,400,729	6,351,487	4,200,739	0	2,150,748
Agriculture, Department of	3,359,243	0	3,359,243	3,359,243	0	0
Environmental Quality, Department of	55,000	55,000	0	0	0	0
Fish, Wildlife and Parks, Department of	3,824,321	2,786,890	1,037,431	0	0	1,037,431
Natural Resources and Conservation, Department of	42,740	36,794	5,946	5,946	0	0
Transportation, Department of	2,470,912	522,045	1,948,867	835,550	0	1,113,317
Nebraska	32,687,157	2,114,433	30,572,724	25,706,242	4,758,046	108,436
Agriculture, Department of	880,683	0	880,683	853,349	13,768	13,566
Corn Board	798,965	0	798,965	798,965	0	0
Dry Bean Commission	305,376	0	305,376	305,376	0	0
Economic Development, Department of	6,618,124	0	6,618,124	2,032,624	4,585,500	0
Game and Parks Commission	3,935,042	2,021,933	1,913,109	1,719,461	108,778	84,870
Grain Sorghum Board	5,000	0	5,000	5,000	0	0
Health and Human Services, Department of	18,833,700	0	18,833,700	18,833,700	0	0
Midwest Dairy Association, Nebraska Division	31,158	0	31,158	31,158	0	0
Natural Resources, Department of	50,000	0	50,000	0	50,000	0
Pea And Lentil Commission	1,390	0	1,390	1,390	0	0
Transportation, Department of	1,217,719	92,500	1,125,219	1,125,219	0	0
Wheat Board	10,000	0	10,000	0	0	10,000
Nevada	3,643,395	208,642	3,434,753	2,200,553	283,100	951,100
Agriculture, Department of	208,642	208,642	0	0	0	0
Economic Development, Governor's office of	1,327,253	0	1,327,253	1,327,253	0	0
Transportation, Department of	2,107,500	0	2,107,500	873,300	283,100	951,100
New Hampshire	9,222,505	136,953	9,085,552	241,647	7,025,864	1,818,041
Agriculture, Markets and Food, Department of	43,897	0	43,897	21,072	0	22,825
Business and Economic Affairs, Department of	7,000,000	0	7,000,000	0	7,000,000	0
Environmental Services, Department of	1,259,624	0	1,259,624	9,840	0	1,249,784
Transportation, Department of	918,984	136,953	782,031	210,735	25,864	545,432



TABLE 20

## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
New Jersey	65,020,915	3,317,395	61,703,520	47,835,643	1,504,415	12,363,462
Agriculture, Department of	180,151	180,151	0	0	0	0
Children and Families, Department of	368,019	196,441	171,578	91,578	0	80,000
Community Affairs, Department of	22,000	5,000	17,000	0	17,000	0
Corrections, Department of	416,034	416,034	0	0	0	0
Environmental Protection, Department of	6,493,270	2,122,182	4,371,088	4,055,096	236,500	79,492
Health, Department of	45,343,885	0	45,343,885	34,139,915	0	11,203,970
Pinelands Commission	412,081	351,618	60,463	0	60,463	0
Secretary of Higher Education, Office of	4,500,000	0	4,500,000	3,500,000	0	1,000,000
State Parole Board, New Jersey	45,969	45,969	0	0	0	0
Transit, New Jersey	251,362	0	251,362	251,362	0	0
Transportation, Department of	6,988,144	0	6,988,144	5,797,692	1,190,452	0
New Mexico	3,456,227	1,110,427	2,345,800	1,629,579	374,741	341,480
Cultural Affairs, Department of	105,527	105,527	0	0	0	0
Game and Fish, Department of	1,765,554	545,000	1,220,554	889,179	89,895	241,480
Transportation, Department of	1,400,300	459,900	940,400	740,400	100,000	100,000
Western State Air Resources Council	184,846	0	184,846	0	184,846	0
New York	506,283,025	274,950,816	231,332,209	154,930,297	47,930,079	28,471,833
Agriculture and Markets, Department of	7,728,860	2,365,000	5,363,860	2,043,860	0	3,320,000
Economic Development, Department of	103,874,022	0	103,874,022	97,874,022	1,000,000	5,000,000
Energy Research and Development Authority	56,620,719	6,494,503	50,126,216	6,855,709	38,625,226	4,645,281
Environmental Conservation, Department of	8,217,418	4,399,864	3,817,554	3,465,824	210,500	141,230
Health, Department of	58,241,006	29,578,789	28,662,217	18,665,207	2,539,456	7,457,554
Mental Health, Office of	170,676,444	145,294,992	25,381,452	24,805,237	513,212	63,003
People with Developmental Disabilities, Office of	1,682,143	1,682,143	0	0	0	0
Power Authority	9,714,648	1,759,883	7,954,765	110,000	0	7,844,765
Roswell Park Comprehensive Cancer Center	71,562,773	71,562,773	0	0	0	0
State Museum	10,982,258	10,584,848	397,410	397,410	0	0
Thoroughbred Breeding and Development Fund Corp.	405,292	0	405,292	405,292	0	0
Transportation, Department of	6,577,442	1,228,021	5,349,421	307,736	5,041,685	0
North Carolina	38,818,576	17,505,611	21,312,965	14,454,020	5,333,677	1,525,268
Agriculture and Consumer Services, Department of	15,422,911	13,922,911	1,500,000	1,300,000	200,000	0
Biotechnology Center	2,841,679	0	2,841,679	2,841,679	0	0
Environmental Quality, Department of	3,275,157	1,223,587	2,051,570	564,324	459,987	1,027,259
Natural and Cultural Resources, Department of	2,425,310	1,809,113	616,197	218,188	0	398,009
Science Technology & Innovation, Office of	4,660,090	0	4,660,090	0	4,660,090	0
Transportation, Department of	10,050,000	550,000	9,500,000	9,500,000	0	0
Wine and Grape Growers Council	143,429	0	143,429	29,829	13,600	100,000
North Dakota	17,874,336	131,121	17,743,215	6,647,965	9,559,797	1,535,453
Agriculture, Department of	3,313,396	0	3,313,396	0	3,222,007	91,389

TABLE 20

## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
Dry Pea and Lentil Commission	282,308	0	282,308	282,308	0	0
Game and Fish, Department of	595,698	0	595,698	359,197	6,234	230,267
Historical Society of North Dakota	93,115	93,115	0	0	0	0
Industrial Commission	9,398,767	0	9,398,767	3,267,555	6,120,122	11,090
Midwest Dairy Association, North Dakota Division	5,193	0	5,193	5,193	0	0
Soybean Council	1,622,297	0	1,622,297	1,410,863	211,434	0
Transportation, Department of	1,298,374	38,006	1,260,368	132,661	0	1,127,707
Wheat Commission	1,265,188	0	1,265,188	1,190,188	0	75,000
Ohio	70,471,571	1,106,388	69,365,183	18,527,266	49,891,610	946,307
Development, Department of	57,980,338	0	57,980,338	11,396,832	46,583,506	0
Education, Department of	180,000	20,000	160,000	130,000	30,000	0
Environmental Protection Agency	379,412	379,412	0	0	0	0
Natural Resources, Department of	3,723,242	706,976	3,016,266	2,850,856	0	165,410
Transportation, Department of	6,349,868	0	6,349,868	2,836,444	3,278,104	235,320
Water Development Authority	1,858,711	0	1,858,711	1,313,134	0	545,577
Oklahoma	27,646,238	1,946,574	25,699,664	17,857,716	3,693,891	4,148,057
Advancement of Science and Technology, Center for the	8,629,841	0	8,629,841	4,707,013	3,607,828	315,000
Agriculture, Food, and Forestry, Department of	443,596	0	443,596	443,596	0	0
Environmental Quality, Department of	345,916	296,338	49,578	15,880	0	33,698
Grand River Dam Authority	525,000	315,000	210,000	210,000	0	0
Health, Department of	1,053,610	412,095	641,515	641,515	0	0
Human Services, Department of	459,801	459,801	0	0	0	0
Midwest Dairy Association, Oklahoma Division	5,193	0	5,193	5,193	0	0
Tobacco Settlement Endowment Trust	10,903,905	0	10,903,905	8,589,848	0	2,314,057
Transportation, Department of	3,568,372	460,033	3,108,339	1,547,665	86,063	1,474,611
Wildlife Conservation, Department of	1,711,004	3,307	1,707,697	1,697,006	0	10,691
Oregon	33,801,166	16,703,743	17,097,423	8,564,907	4,287,150	4,245,366
Agriculture, Department of	248,348	0	248,348	246,348	2,000	0
Business Oregon	11,252,148	0	11,252,148	4,403,988	3,348,160	3,500,000
Environmental Quality, Department of	145,000	145,000	0	0	0	0
Fish and Wildlife, Department of	14,109,145	11,930,138	2,179,007	1,436,198	732,529	10,280
Forestry, Department of	700,000	350,000	350,000	50,000	150,000	150,000
Geology and Mineral Industries, Department of	942,340	942,340	0	0	0	0
Human Services, Department of	778,318	778,318	0	0	0	0
Transportation, Department of	4,292,580	1,706,746	2,585,834	2,428,373	54,461	103,000
Water Resources Department	1,067,424	843,686	223,738	0	0	223,738
Watershed Enhancement Board	265,863	7,515	258,348	0	0	258,348
Pennsylvania	88,557,830	13,041,479	75,516,351	38,491,630	6,077,281	30,947,440
Agriculture, Department of	3,206,582	0	3,206,582	2,809,612	90,000	306,970
Community and Economic Development, Department of	22,100,000	0	22,100,000	5,350,000	0	16,750,000
Conservation and Natural Resources, Department of	505,181	158,742	346,439	148,479	0	197,960
Environmental Protection, Department of	196,401	46,493	149,908	0	149,908	0



TABLE 20

## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
Fish and Boat Commission	348,312	272,099	76,213	76,213	0	0
Game Commission	12,697,359	12,444,145	253,214	253,214	0	0
Health, Department of	46,483,760	0	46,483,760	28,941,250	3,850,000	13,692,510
Susquehanna River Basin Commission	130,000	120,000	10,000	10,000	0	0
Transportation, Department of	2,890,235	0	2,890,235	902,862	1,987,373	0
Rhode Island	8,361,413	5,438,324	2,923,089	895,354	836,124	1,191,611
Commerce Corporation	986,076	0	986,076	149,952	836,124	0
Fish and Wildlife; Environmental Management, Department of	4,044,625	3,183,962	860,663	356,577	0	504,086
Marine Fisheries; Environmental Management, Department of	2,169,953	1,905,103	264,850	88,825	0	176,025
Narragansett Bay National Estuarine Research Reserve; Environmental Management, Department of	181,937	181,937	0	0	0	0
Transportation, Department of	900,000	150,000	750,000	300,000	0	450,000
Water Resources Board	78,822	17,322	61,500	0	0	61,500
South Carolina	50,056,315	29,595,672	20,460,643	5,652,030	1,826,919	12,981,694
Agriculture, Department of	1,180,047	0	1,180,047	1,180,047	0	0
Disabilities and Special Needs, Department of	11,798,260	0	11,798,260	0	0	11,798,260
Health and Environmental Control, Department of	1,146,936	1,146,936	0	0	0	0
Mental Health, Department of	39,467	39,467	0	0	0	0
Natural Resources, Department of	26,580,926	26,296,034	284,892	251,688	0	33,204
Public Service Authority	512,345	0	512,345	30,000	0	482,345
Research Authority	3,197,270	0	3,197,270	1,370,351	1,826,919	0
Sea Grant Consortium	3,144,115	2,096,811	1,047,304	894,899	0	152,405
Transportation, Department of	2,456,949	16,424	2,440,525	1,925,045	0	515,480
South Dakota	4,595,753	237,313	4,358,440	2,989,627	624,054	744,759
Corn Utilization Council	50,000	0	50,000	50,000	0	0
Midwest Dairy Association, South Dakota Division	67,509	0	67,509	67,509	0	0
Nutrient Research and Education Council	972,936	0	972,936	972,936	0	0
Oilseeds Council	352,798	0	352,798	92,628	0	260,170
Pulse Crop Council	31,390	0	31,390	31,390	0	0
Soybean Research and Promotion Council	449,642	14,068	435,574	270,603	10,000	154,971
Transportation, Department of	2,109,493	223,245	1,886,248	942,576	614,054	329,618
Weed and Pest Control Commission	47,000	0	47,000	47,000	0	0
Wheat Commission	514,985	0	514,985	514,985	0	0
Tennessee	38,959,330	314,273	38,645,057	5,999,804	32,645,253	0
Education, Department of	26,245,253	0	26,245,253	600,000	25,645,253	0
Environment and Conservation, Department of	314,273	314,273	0	0	0	0
LaunchTN	7,000,000	0	7,000,000	0	7,000,000	0
Transportation, Department of	5,399,804	0	5,399,804	5,399,804	0	0
Texas	247,609,284	2,368,161	245,241,123	200,096,480	43,539,743	1,604,900
Agriculture, Department of	1,353,356	0	1,353,356	1,103,356	0	250,000
Alzheimer's Research and Care Consortium (TARCC)	4,384,547	0	4,384,547	4,384,547	0	0

TABLE 20

## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
Cancer Prevention and Research Institute	208,262,268	0	208,262,268	166,029,285	42,232,983	0
Environmental Quality, Commission on	1,490,243	0	1,490,243	794,113	696,130	0
Parks and Wildlife Department	4,445,763	1,811,293	2,634,470	2,606,370	0	28,100
State Health Services, Department of	1,965,537	556,868	1,408,669	1,408,669	0	0
Transportation, Department of	24,982,335	0	24,982,335	23,665,535	0	1,316,800
Water Development Board	725,235	0	725,235	104,605	610,630	10,000
Utah	8,837,531	6,375,939	2,461,592	1,559,806	794,455	107,331
Agriculture And Food, Department Of	305,965	0	305,965	229,988	0	75,977
Environmental Quality, Department of	618,560	131,217	487,343	382,186	73,803	31,354
Natural Resources, Department of	5,228,943	5,228,943	0	0	0	0
Transportation, Department of	2,684,063	1,015,779	1,668,284	947,632	720,652	0
Vermont	1,460,157	1,170,646	289,511	236,262	52,924	325
Agriculture, Food, and Markets, Agency of	63,773	0	63,773	27,000	36,773	0
Human Services, Agency of	553,199	553,199	0	0	0	0
Transportation, Agency of	843,185	617,447	225,738	209,262	16,151	325
Virginia	40,253,504	15,546,707	24,706,797	13,951,050	8,277,124	2,478,623
Agriculture and Consumer Services, Department of	2,949,439	0	2,949,439	2,608,793	0	340,646
Behavioral Health And Developmental Services, Department of	1,240	1,240	0	0	0	0
Commonwealth Health Research Board	1,249,650	0	1,249,650	1,249,650	0	0
Education, Department of	1,115,000	865,000	250,000	250,000	0	0
Energy, Department of	1,629,726	1,600,703	29,023	29,023	0	0
Environmental Quality, Department of	347,705	189,776	157,929	49,403	6,072	102,454
Forensic Science, Department of	1,016,000	1,016,000	0	0	0	0
Forestry, Department of	610,930	610,930	0	0	0	0
Foundation for Healthy Youth	808,437	0	808,437	808,437	0	0
Innovation Partnership Corporation	10,980,762	1,695,306	9,285,456	1,014,404	8,271,052	0
Institute for Advanced Learning and Research	73,000	73,000	0	0	0	0
Marine Resources Commission	1,990,284	330,022	1,660,262	0	0	1,660,262
Natural History, Museum of	856,356	856,356	0	0	0	0
Rail And Public Transportation	260,000	0	260,000	0	0	260,000
Social Services, Department of	1,000,000	1,000,000	0	0	0	0
Transportation, Department of	13,652,178	7,308,374	6,343,804	6,343,804	0	0
Wildlife Resources, Department of	1,712,797	0	1,712,797	1,597,536	0	115,261
Washington	60,886,219	24,507,566	36,378,653	16,420,916	15,728,140	4,229,597
Agriculture, Department of	3,415,009	0	3,415,009	2,737,033	391,412	286,564
Alfalfa Seed Commission	20,000	0	20,000	20,000	0	0
Asparagus Commission	40,000	0	40,000	0	40,000	0
Blueberry Commission	217,000	0	217,000	0	217,000	0
Commerce, Department of	14,792,431	0	14,792,431	377,385	12,618,549	1,796,497
Cranberry Commission	15,880	0	15,880	0	15,880	0
Dairy Products Commission	80,000	0	80,000	20,000	0	60,000
Ecology, Department of	1,353,380	1,312,992	40,388	40,388	0	0
Fish and Wildlife, Department of	11,727,293	11,593,810	133,483	122,467	0	11,016
Fruit Commission	97,789	0	97,789	61,862	0	35,927

TABLE 20

## State agency expenditures for R&amp;D, by state, department or agency, and performer: FY 2022

(Dollars)

State and department or agency	All R&D expenditures	Intramural performers <sup>a</sup>	Extramural performers <sup>b</sup>			
			Total	Academic institutions	Companies and individuals <sup>c</sup>	Other <sup>d</sup>
Grain Commission	2,046,962	0	2,046,962	2,046,962	0	0
Health, Department of	1,265,000	1,202,000	63,000	63,000	0	0
Hop Commission	134,868	0	134,868	134,868	0	0
Labor and Industries, Department of	3,221,766	3,221,766	0	0	0	0
Mint Commission	32,739	0	32,739	32,739	0	0
Natural Resources, Department of	7,767,429	5,269,465	2,497,964	1,209,267	593,807	694,890
Oilseeds Commission	120,538	0	120,538	120,538	0	0
Pesticide Registration, Commission on	405,000	0	405,000	405,000	0	0
Potato Commission	895,660	0	895,660	736,407	55,000	104,253
Puget Sound Partnership	2,512,800	12,800	2,500,000	1,600,000	450,000	450,000
Pulse Crops Commission	124,303	0	124,303	124,303	0	0
Red Raspberry Commission	180,470	0	180,470	98,743	56,052	25,675
Transportation, Department of	4,527,700	1,559,500	2,968,200	2,665,700	215,600	86,900
Tree Fruit Research Commission	5,231,737	335,233	4,896,504	3,143,789	1,074,840	677,875
Turfgrass Seed Commission	157,209	0	157,209	157,209	0	0
Wine Commission	503,256	0	503,256	503,256	0	0
West Virginia	9,180,282	3,803,985	5,376,297	5,131,402	237,000	7,895
Agriculture, Department of	244,126	244,126	0	0	0	0
Geological and Economic Survey	2,053,431	1,772,083	281,348	281,348	0	0
Higher Education Policy Commission	2,748,699	171,450	2,577,249	2,569,354	0	7,895
Natural Resources, Department of	1,874,026	1,616,326	257,700	20,700	237,000	0
Transportation, Department of	2,260,000	0	2,260,000	2,260,000	0	0
Wisconsin	19,060,693	5,209,332	13,851,361	3,395,186	7,405,745	3,050,430
Agriculture, Trade and Consumer Protection, Department of	2,539,311	0	2,539,311	1,198,272	1,138,309	202,730
Economic Development Corporation	5,256,575	0	5,256,575	0	5,256,575	0
Natural Resources, Department of	7,047,780	4,804,163	2,243,617	1,533,566	366,975	343,076
Transportation, Department of	4,217,027	405,169	3,811,858	663,348	643,886	2,504,624
Wyoming	5,657,338	2,228,619	3,428,719	800,222	2,359,722	268,775
Agriculture, Department of	640,504	0	640,504	344,452	27,277	268,775
Business Council	1,011,555	0	1,011,555	0	1,011,555	0
Enhanced Oil Recovery Institute	1,032,669	423,984	608,685	0	608,685	0
Game and Fish Department	1,658,878	1,472,216	186,662	136,118	50,544	0
State Geological Survey	235,372	235,372	0	0	0	0
Transportation, Department of	768,083	97,047	671,036	9,375	661,661	0
Water Development Office	310,277	0	310,277	310,277	0	0
Puerto Rico <sup>f</sup>	17,058,786	11,176,340	5,882,446	2,397,243	3,340,203	145,000
Comprehensive Cancer Center	8,273,926	8,273,926	0	0	0	0
Economic Development & Commerce	760,000	0	760,000	200,000	560,000	0
Innovation & Technology Services	3,555,203	850,000	2,705,203	0	2,705,203	0
Institute of Statistics	1,462,042	1,462,042	0	0	0	0
Mental Health and Anti-Addiction Services Administration	225,000	0	225,000	225,000	0	0
Science, Technology and Research Trust	2,782,615	590,372	2,192,243	1,972,243	75,000	145,000

<sup>a</sup> 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.

<sup>b</sup> Extramural performers are those outside the department or agency who perform R&D.

<sup>c</sup> Companies and individuals include individuals under contract for research projects.

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

<sup>e</sup> U.S. total reflects all 50 states and the District of Columbia.

<sup>f</sup> 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 2022.