

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2019

(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	2,426,882,959	676,171,326	1,750,711,633	1,024,316,554	438,222,437	288,172,642
Alabama	19,763,230	7,412,961	12,350,269	6,601,893	143,357	5,605,019
Commerce, Department of	2,500,000	0	2,500,000	1,000,000	0	1,500,000
Conservation and Natural Resources, Department of: Wildlife and Freshwater Fisheries Division	2,908,673	0	2,908,673	2,765,316	143,357	0
Education, Department of	610,000	480,000	130,000	130,000	0	0
Forensic Sciences, Department of	238,454	238,454	0	0	0	0
Geological Survey	2,321,007	2,321,007	0	0	0	0
Marine Environmental Science Consortium, Dauphin Island Sea Lab	4,373,500	4,373,500	0	0	0	0
Supercomputer Authority	3,153,648	0	3,153,648	1,270,513	0	1,883,135
Transportation, Department of	3,657,948	0	3,657,948	1,436,064	0	2,221,884
Alaska	12,502,109	8,920,501	3,581,608	816,177	2,412,402	353,029
Energy Authority	102,206	0	102,206	0	102,206	0
Environmental Conservation, Department of	320,476	114,393	206,083	0	206,083	0
Housing Finance Corporation	1,000,000	0	1,000,000	0	1,000,000	0
Natural Resources, Division of Geological and Geophysical Surveys, Department of	8,392,100	8,392,100	0	0	0	0
Railroad Corporation	1,330,621	320,258	1,010,363	0	1,010,363	0
Transportation and Public Facilities, Department of	1,356,706	93,750	1,262,956	816,177	93,750	353,029
Arizona	17,332,044	761,096	16,570,948	11,068,716	900,213	4,602,019
Agriculture, Department of	1,176,374	0	1,176,374	1,080,980	95,394	0
Game and Fish Department	811,096	761,096	50,000	50,000	0	0
Health Services, Department of	13,843,058	0	13,843,058	9,386,373	0	4,456,685
Transportation, Department of	1,501,516	0	1,501,516	551,363	804,819	145,334
Arkansas	21,098,863	66,099	21,032,764	20,576,710	447,500	8,554
Beef Council	40,250	0	40,250	40,250	0	0
Corn and Grain Sorghum Board	965,000	0	965,000	965,000	0	0
Economic Development Commission	7,068,797	0	7,068,797	6,621,297	447,500	0
Game and Fish Commission	802,324	1,100	801,224	792,670	0	8,554
Rice Research and Promotion Board	8,623,500	0	8,623,500	8,623,500	0	0
Soybean Promotion Board	2,625,555	0	2,625,555	2,625,555	0	0
State Plant Board	118,000	0	118,000	118,000	0	0
Transportation, Department of	805,437	64,999	740,438	740,438	0	0
Wheat Promotion Board	50,000	0	50,000	50,000	0	0
California	526,918,585	73,081,146	453,837,439	159,254,746	187,118,114	107,464,579
Air Resources Board	15,271,608	10,753,671	4,517,937	2,703,168	1,449,392	365,377
Children and Families Commission	1,895,000	0	1,895,000	850,000	0	1,045,000
Conservation, Department of	184,000	0	184,000	184,000	0	0
Corrections and Rehabilitation, Department of	2,237,305	0	2,237,305	0	2,237,305	0
Covered California	3,489,452	0	3,489,452	0	3,489,452	0
Delta Stewardship Council	6,372,069	0	6,372,069	4,642,792	695,141	1,034,136
Earthquake Authority	1,816,792	0	1,816,792	483,176	999,640	333,976
Energy Commission	165,441,000	17,472,000	147,969,000	16,276,590	125,773,650	5,918,760
Environmental Health Hazard Assessment, Office of	17,563,188	15,375,492	2,187,696	1,964,802	4,950	217,944

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State agency expenditures for R&D, by state, department or agency, and performer: FY 2019

(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
Food and Agriculture, Department of	4,871,361	0	4,871,361	3,648,962	0	1,222,399
Forestry and Fire Protection, Department of	3,665,406	512,919	3,152,487	3,152,487	0	0
Horse Racing Board	701,000	0	701,000	701,000	0	0
Housing and Community Development	50,000	0	50,000	50,000	0	0
Institute for Regenerative Medicine	184,982,872	0	184,982,872	94,180,823	50,196,566	40,605,483
Mental Health Services Oversight and Accountability Commission	2,500,000	0	2,500,000	2,500,000	0	0
Motor Vehicles, Department of	1,331,851	1,331,851	0	0	0	0
Parks and Recreation, Department of	1,500,000	140,000	1,360,000	1,360,000	0	0
Pesticide Regulation, Department of	12,746,628	8,968,747	3,777,881	1,118,656	0	2,659,225
Public Health, Department of	3,313,977	1,676,000	1,637,977	1,637,977	0	0
Public Utilities Commission, Executive Division	37,221,559	0	37,221,559	400,000	0	36,821,559
Rehabilitation, Department of	10,800,000	1,993,764	8,806,236	2,009,288	0	6,796,948
Social Services, Department of	151,151	151,151	0	0	0	0
State Coastal Conservancy	838,000	0	838,000	133,000	18,000	687,000
State Water Resources Control Board	8,768,254	2,496,841	6,271,413	1,954,552	1,129,104	3,187,757
Transportation, Department of	34,906,443	11,341,072	23,565,371	15,943,442	1,052,914	6,569,015
Water Resources, Department of	4,299,669	867,638	3,432,031	3,360,031	72,000	0
Colorado	36,586,577	11,900,858	24,685,719	11,714,288	12,536,431	435,000
Agriculture, Department of	1,316,868	1,092,868	224,000	208,000	16,000	0
Economic Development and International Trade, Office of	15,192,123	0	15,192,123	3,733,536	11,058,587	400,000
Higher Education Competitive, Research Authority	1,700,000	0	1,700,000	1,700,000	0	0
Higher Education, Department of	745,000	45,000	700,000	620,000	45,000	35,000
Natural Resources, Department of	7,567,568	7,562,568	5,000	0	5,000	0
Public Health and Environment, Department of	5,585,075	2,028,422	3,556,653	2,313,208	1,243,445	0
Public Safety, Department of	1,077,000	1,077,000	0	0	0	0
Transportation, Department of	3,194,911	95,000	3,099,911	2,931,512	168,399	0
Wine Industry Development Board	208,032	0	208,032	208,032	0	0
Connecticut	57,241,037	24,679,641	32,561,396	12,120,941	18,862,144	1,578,311
Agricultural Experiment Station	12,445,226	12,445,226	0	0	0	0
Children and Families, Department of	81,949	0	81,949	924	0	81,025
Education, Department of	452,289	25,000	427,289	427,289	0	0
Energy and Environmental Protection, Department of	6,623,689	6,002,512	621,177	569,652	51,525	0
Innovation Inc.	26,858,089	0	26,858,089	8,047,470	18,810,619	0
Mental Health and Addiction Services, Department of	5,951,993	5,951,993	0	0	0	0
Public Health, Department of	114,974	0	114,974	114,974	0	0
Social Services, Department of	1,429,408	0	1,429,408	1,429,408	0	0
Transportation, Department of	3,283,420	254,910	3,028,510	1,531,224	0	1,497,286
Delaware	3,826,318	2,558,634	1,267,684	741,945	449,251	76,488
Geological Survey	2,441,975	2,391,175	50,800	0	0	50,800
Natural Resources and Environmental Control, Department of	259,327	143,203	116,124	90,436	0	25,688
Sustainable Energy Utility	24,256	24,256	0	0	0	0
Transportation, Department of	1,100,760	0	1,100,760	651,509	449,251	0

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State agency expenditures for R&D, by state, department or agency, and performer: FY 2019

(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
District of Columbia	4,222,412	1,888,642	2,333,770	881,908	1,251,862	200,000
Health, Department of	1,800,000	796,043	1,003,957	174,170	829,787	0
Transportation, Department of	422,412	92,599	329,813	207,738	122,075	0
Water and Sewer Authority	2,000,000	1,000,000	1,000,000	500,000	300,000	200,000
Florida	170,508,724	50,604,692	119,904,032	72,945,728	4,605,749	42,352,555
Agriculture and Consumer Services, Department of	12,822,683	1,547,678	11,275,005	5,765,864	161,561	5,347,580
Citrus, Department of	941,902	110,432	831,470	181,470	0	650,000
Environmental Protection, Department of	63,430	63,430	0	0	0	0
Fish and Wildlife Conservation Commission	52,150,203	47,252,513	4,897,690	1,331,380	2,000,060	1,566,250
Health, Department of	89,163,217	0	89,163,217	54,374,492	0	34,788,725
Space Florida	1,497,850	0	1,497,850	228,000	1,269,850	0
Transportation, Department of	13,869,439	1,630,639	12,238,800	11,064,522	1,174,278	0
Georgia	18,875,484	3,539,835	15,335,649	10,178,649	2,801,451	2,355,549
Natural Resources, Department of	1,956,371	896,266	1,060,105	1,002,405	0	57,700
Seed Development Commission	633,607	0	633,607	633,607	0	0
Southern States Energy Board	10,501,076	2,643,569	7,857,507	2,758,207	2,801,451	2,297,849
Transportation, Department of	5,784,430	0	5,784,430	5,784,430	0	0
Hawaii	7,325,591	257,625	7,067,966	1,559,669	5,012,297	496,000
Agriculture, Department of	680,702	257,625	423,077	333,077	40,000	50,000
Business, Economic Development, and Tourism, Department of	3,947,297	0	3,947,297	0	3,947,297	0
Land and Natural Resources, Department of	895,592	0	895,592	701,592	25,000	169,000
Natural Energy Laboratory	1,000,000	0	1,000,000	0	1,000,000	0
Transportation, Department of	802,000	0	802,000	525,000	0	277,000
Idaho	17,828,263	6,709,727	11,118,536	7,096,483	181,920	3,840,133
Agriculture, Department of	922,104	2,571	919,533	548,120	0	371,413
Alfalfa and Clover Seed Commission	15,000	0	15,000	15,000	0	0
Barley Commission	237,498	0	237,498	190,498	0	47,000
Bean Commission	26,400	0	26,400	26,400	0	0
Beef Council	16,500	0	16,500	16,500	0	0
Commerce, Department of	1,016,728	0	1,016,728	1,016,728	0	0
Dairy West	2,000,000	0	2,000,000	2,000,000	0	0
Environmental Quality, Department of	460,000	0	460,000	0	0	460,000
Fish and Game, Department of	7,904,544	6,594,251	1,310,293	523,944	0	786,349
Honey Commission	1,635	0	1,635	1,635	0	0
Oilseed Commission	61,565	0	61,565	61,565	0	0
Pea and Lentil Commission	80,836	0	80,836	80,836	0	0
Potato Commission	850,000	0	850,000	750,000	100,000	0
Transportation Department	3,339,242	112,905	3,226,337	1,041,103	81,920	2,103,314
Wheat Commission	896,211	0	896,211	824,154	0	72,057
Illinois	17,548,556	1,171,225	16,377,331	12,313,520	158,084	3,905,727
Children and Family Services, Department of	3,848,765	0	3,848,765	3,848,765	0	0
Human Services, Department of	236,073	0	236,073	236,073	0	0
Nutrient Research and Education	3,989,560	0	3,989,560	3,989,560	0	0
Public Health, Department of	15,596	0	15,596	0	0	15,596

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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
Transportation, Department of	9,458,562	1,171,225	8,287,337	4,239,122	158,084	3,890,131
Indiana	12,357,151	167,703	12,189,448	11,272,729	916,719	0
Economic Development Corporation	3,936,062	0	3,936,062	3,019,343	916,719	0
Natural Resources, Department of	100,000	0	100,000	100,000	0	0
Transportation, Department of	8,321,089	167,703	8,153,386	8,153,386	0	0
Iowa	9,386,675	3,279,267	6,107,408	5,781,844	308,139	17,425
Human Rights, Criminal and Juvenile Justice Planning, Division of	433,061	411,045	22,016	22,016	0	0
Natural Resources, Department of	3,797,923	2,868,222	929,701	820,116	92,160	17,425
Transportation, Department of	5,155,691	0	5,155,691	4,939,712	215,979	0
Kansas	12,355,458	998,463	11,356,995	9,556,647	42,064	1,758,284
Corn Commission	850,050	0	850,050	850,050	0	0
Grain Sorghum Commission	444,660	0	444,660	444,660	0	0
Soybean Commission	1,463,379	0	1,463,379	1,463,379	0	0
State Board of Regents	996,465	3,200	993,265	993,265	0	0
Transportation, Department of	3,714,875	985,452	2,729,423	1,066,139	0	1,663,284
Water Office	465,725	9,811	455,914	360,914	0	95,000
Wheat Commission	1,240,806	0	1,240,806	1,198,742	42,064	0
Wildlife, Parks, and Tours	3,179,498	0	3,179,498	3,179,498	0	0
Kentucky	26,668,173	2,038,186	24,629,987	20,152,692	4,477,295	0
Behavioral Health, Developmental and Intellectual Disabilities	67,500	0	67,500	0	67,500	0
Economic Development, Cabinet for	4,040,000	0	4,040,000	0	4,040,000	0
Environmental Protection, Department of	100,000	10,000	90,000	0	90,000	0
Fish and Wildlife Resources, Department of	2,000,000	1,745,186	254,814	56,789	198,025	0
Horse Racing Commission	293,414	0	293,414	236,144	57,270	0
Nature Preserves, Office of	401,000	283,000	118,000	93,500	24,500	0
Postsecondary Education, Council on	10,559,315	0	10,559,315	10,559,315	0	0
Public Health, Department for	1,586,642	0	1,586,642	1,586,642	0	0
Soybean Promotion Board	600,000	0	600,000	600,000	0	0
Transportation Cabinet	7,020,302	0	7,020,302	7,020,302	0	0
Louisiana	35,142,225	10,974,134	24,168,091	21,247,322	2,705,708	215,061
Agriculture and Forestry, Department of	26,840	0	26,840	26,840	0	0
Board of Regents	15,162,504	0	15,162,504	15,162,504	0	0
Coastal Protection and Restoration Authority	3,368,965	466,210	2,902,755	555,486	2,205,708	141,561
Education, Department of	428,589	355,089	73,500	0	0	73,500
Transportation and Development, Department of	10,000,000	4,500,000	5,500,000	5,000,000	500,000	0
Wildlife and Fisheries, Department of	6,155,327	5,652,835	502,492	502,492	0	0
Maine	32,592,625	3,051,263	29,541,362	3,208,546	23,392,740	2,940,076
Agriculture, Conservation and Forestry, Department of	650,363	329,763	320,600	0	320,600	0
Inland Fisheries and Wildlife, Department of	719,045	0	719,045	719,045	0	0
Marine Resources, Department of	2,341,500	2,236,500	105,000	0	105,000	0
Technology Institute	27,745,717	0	27,745,717	1,838,501	22,967,140	2,940,076
Transportation, Department of	1,136,000	485,000	651,000	651,000	0	0
Maryland	29,107,768	989,368	28,118,400	25,174,517	1,702,691	1,241,192

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(Dollars)

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Education, Department of	638,402	0	638,402	638,402	0	0
Energy Administration	1,032,429	0	1,032,429	7,429	0	1,025,000
Health and Mental Hygiene, Department of	13,000,000	0	13,000,000	13,000,000	0	0
Natural Resources, Department of	1,476,425	586,649	889,776	835,467	54,309	0
Technology Development Corporation	10,620,513	0	10,620,513	9,241,839	1,378,674	0
Transportation, Department of	2,339,999	402,719	1,937,280	1,451,380	269,708	216,192
Massachusetts	28,425,439	8,798,238	19,627,201	8,959,924	9,122,538	1,544,739
Clean Energy Technology Center	4,999,247	0	4,999,247	1,004,327	3,737,625	257,295
Environmental Protection, Department of	288,925	223,238	65,687	31,291	34,396	0
Fish and Game, Department of	8,550,000	8,050,000	500,000	250,000	0	250,000
Gaming Commission	2,125,000	0	2,125,000	2,095,000	30,000	0
Life Sciences Center	1,000,000	0	1,000,000	0	1,000,000	0
Massventures	3,300,000	0	3,300,000	0	3,300,000	0
Mental Health, Department of	1,300,000	0	1,300,000	1,300,000	0	0
Public Health, Department of	2,237,267	0	2,237,267	1,179,306	1,020,517	37,444
Transportation, Department of	4,425,000	425,000	4,000,000	3,000,000	0	1,000,000
Water Resources Authority	200,000	100,000	100,000	100,000	0	0
Michigan	8,023,318	336,227	7,687,091	4,128,401	732,368	2,826,322
Agriculture and Rural Development, Department of	1,246,732	0	1,246,732	862,914	46,896	336,922
Environmental, Great Lakes and Energy, Department of	639,875	336,227	303,648	241,876	61,772	0
Health and Human Services	88,488	0	88,488	88,488	0	0
Natural Resources, Department of	916,023	0	916,023	916,023	0	0
Transportation, Department of	5,132,200	0	5,132,200	2,019,100	623,700	2,489,400
Minnesota	20,150,907	2,027,757	18,123,150	11,789,528	3,284,164	3,049,458
Agriculture, Department of	6,177,224	520,093	5,657,131	4,740,601	247,494	669,036
Forest Resources Council	140,000	30,000	110,000	110,000	0	0
Natural Resources, Department of	1,462,164	1,462,164	0	0	0	0
Pollution Control Agency	100,277	0	100,277	16,038	79,381	4,858
Transportation, Department of	12,271,242	15,500	12,255,742	6,922,889	2,957,289	2,375,564
Mississippi	12,170,278	1,755,759	10,414,519	5,478,277	2,776,582	2,159,660
Agriculture and Commerce, Department of	97,454	0	97,454	97,454	0	0
Environmental Quality, Department of	1,157,390	83,910	1,073,480	1,073,480	0	0
Gulf States Marine Fisheries Commission	661,034	0	661,034	545,483	0	115,551
Marine Resources, Department of	2,141,085	224,205	1,916,880	1,916,880	0	0
Transportation, Department of	5,991,596	462,995	5,528,601	790,000	2,776,582	1,962,019
Wildlife, Fisheries, and Parks, Department of	2,121,719	984,649	1,137,070	1,054,980	0	82,090
Missouri	15,055,845	8,242,424	6,813,421	5,232,623	1,430,015	150,783
Agriculture, Department of	79,966	0	79,966	79,966	0	0
Conservation, Department of	11,163,017	8,200,487	2,962,530	2,554,575	407,955	0
Health and Senior Services	28,760	28,760	0	0	0	0
Natural Resources, Department of	792,133	13,177	778,956	648,173	0	130,783
Technology Corporation	615,000	0	615,000	0	615,000	0
Transportation, Department of	1,430,194	0	1,430,194	1,003,134	407,060	20,000

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(Dollars)

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Wine and Grape Board	946,775	0	946,775	946,775	0	0
Montana	8,794,140	2,993,604	5,800,536	4,974,426	660,846	165,264
Agriculture, Department of	3,132,570	0	3,132,570	3,132,570	0	0
Environmental Quality, Department of	153,592	98,756	54,836	2,666	156	52,014
Fish, Wildlife and Parks	3,833,321	2,740,906	1,092,415	1,092,415	0	0
Natural Resources and Conservation, Department of	59,620	59,620	0	0	0	0
Research and Commercialization, Board of	794,510	0	794,510	162,500	632,010	0
Transportation, Department of	820,527	94,322	726,205	584,275	28,680	113,250
Nebraska	28,167,688	770,104	27,397,584	25,378,861	579,453	1,439,270
Agriculture, Department of	1,193,067	752,988	440,079	0	357,242	82,837
Corn Board	1,107,026	0	1,107,026	957,026	0	150,000
Dry Bean Commission	192,000	0	192,000	192,000	0	0
Economic Development, Department of	1,111,752	0	1,111,752	964,259	147,493	0
Game and Parks Commission	2,857,952	5,000	2,852,952	2,852,952	0	0
Grain Sorghum Board	15,000	0	15,000	15,000	0	0
Health and Human Services	18,562,794	0	18,562,794	18,562,794	0	0
Natural Resources, Department of	1,346,572	12,116	1,334,456	58,305	74,718	1,201,433
Transportation, Department of	1,453,039	0	1,453,039	1,453,039	0	0
Wheat Board	328,486	0	328,486	323,486	0	5,000
Nevada	7,871,899	184,774	7,687,125	5,576,601	200,360	1,910,164
Agriculture, Department of	184,774	184,774	0	0	0	0
Economic Development, Governor's office of	6,584,759	0	6,584,759	4,919,976	0	1,664,783
Transportation, Department of	1,102,366	0	1,102,366	656,625	200,360	245,381
New Hampshire	8,432,696	131,672	8,301,024	759,619	7,060,142	481,263
Agriculture, Markets and Food, Department of	154,699	0	154,699	114,949	0	39,750
Business and Economic Affairs	7,275,000	0	7,275,000	275,000	7,000,000	0
Natural & Cultural Resources, Department of	61,465	0	61,465	61,465	0	0
Transportation, Department of	941,532	131,672	809,860	308,205	60,142	441,513
New Jersey	23,886,758	2,796,233	21,090,525	15,454,335	818,969	4,817,221
Community Affairs, Department of	310,000	75,000	235,000	235,000	0	0
Corrections, Department of	301,979	301,979	0	0	0	0
Environmental Protection, Department of	2,474,000	1,772,000	702,000	554,000	148,000	0
Health, Department of	1,936,431	0	1,936,431	1,751,848	184,583	0
Pinelands Commission	647,254	647,254	0	0	0	0
Research Initiatives, Office of	13,000,000	0	13,000,000	8,182,779	0	4,817,221
Secretary of Higher Education, Office of	2,500,000	0	2,500,000	2,500,000	0	0
Transit, New Jersey	103,000	0	103,000	103,000	0	0
Transportation, Department of	2,614,094	0	2,614,094	2,127,708	486,386	0
New Mexico	3,585,944	900,212	2,685,732	1,402,821	1,033,472	249,439
Cultural Affairs, Department of	17,000	17,000	0	0	0	0
Game and Fish, Department of	1,000,000	500,000	500,000	500,000	0	0
Transportation, Department of	1,659,400	383,212	1,276,188	832,230	194,519	249,439
Western State Air Resources Council	909,544	0	909,544	70,591	838,953	0
New York	448,501,735	276,773,893	171,727,842	109,787,947	28,123,417	33,816,478

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2019

(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 Markets, Department of	9,864,543	1,965,000	7,899,543	7,539,543	0	360,000
Economic Development, Department of	39,780,251	0	39,780,251	39,780,251	0	0
Energy Research and Development Authority	53,546,621	7,889,945	45,656,676	7,612,185	23,794,417	14,250,074
Environmental Conservation, Department of	8,942,166	4,306,743	4,635,423	3,408,391	1,138,833	88,199
Health, Department of	82,781,352	34,197,760	48,583,592	34,104,316	1,201,465	13,277,811
Mental Health, Office of	156,275,133	139,961,648	16,313,485	15,147,134	0	1,166,351
People with Developmental Disabilities, Office of	1,849,940	1,849,940	0	0	0	0
Power Authority	8,707,710	3,913,638	4,794,072	120,029	0	4,674,043
Roswell Park Cancer Institute	71,920,211	71,920,211	0	0	0	0
State Museum	10,022,519	9,124,024	898,495	898,495	0	0
Thoroughbred Breeding and Development Fund Corp.	388,449	0	388,449	388,449	0	0
Transportation, Department of	4,422,840	1,644,984	2,777,856	789,154	1,988,702	0
North Carolina	32,754,090	18,400,435	14,353,655	11,216,518	1,446,990	1,690,147
Agriculture and Consumer Services, Department of	15,422,911	13,922,911	1,500,000	1,300,000	200,000	0
Environmental Quality, Department of	3,460,387	1,158,611	2,301,776	1,479,318	0	822,458
Golden Leaf, The	65,000	0	65,000	65,000	0	0
Natural and Cultural Resources, Department of	3,473,399	2,605,710	867,689	0	0	867,689
Science, Technology & Innovation, Board of	1,201,990	0	1,201,990	0	1,201,990	0
Transportation, Department of	9,010,403	713,203	8,297,200	8,297,200	0	0
Wine and Grape Growers Council	120,000	0	120,000	75,000	45,000	0
North Dakota	12,140,358	421,989	11,718,369	9,153,941	1,328,298	1,236,130
Agriculture, Department of	299,153	0	299,153	290,744	8,409	0
Dairy Promotion Commission	155,170	0	155,170	0	0	155,170
Dry Pea and Lentil Commission	135,023	0	135,023	135,023	0	0
Game and Fish, Department of	1,375,151	0	1,375,151	1,251,281	123,870	0
Industrial Commission	6,226,265	344,482	5,881,783	4,808,160	1,073,623	0
Soybean Council	1,573,679	0	1,573,679	1,550,179	23,500	0
Transportation, Department of	1,279,171	77,507	1,201,664	71,808	98,896	1,030,960
Wheat Commission	1,096,746	0	1,096,746	1,046,746	0	50,000
Ohio	97,758,379	18,343,328	79,415,051	30,769,933	47,834,732	810,386
Development Services Agency	85,774,800	17,610,002	68,164,798	21,623,992	46,540,806	0
Education, Department of	615,000	0	615,000	450,000	0	165,000
Environmental Protection Agency	20,174	0	20,174	0	20,174	0
Natural Resources, Department of	2,940,286	733,326	2,206,960	2,104,313	51,646	51,001
Transportation, Department of	6,886,442	0	6,886,442	5,544,971	1,222,106	119,365
Water Development Authority	1,521,677	0	1,521,677	1,046,657	0	475,020
Oklahoma	29,607,888	1,685,458	27,922,430	20,226,951	1,260,669	6,434,810
Advancement of Science and Technology, Center for the	5,753,552	0	5,753,552	4,012,857	1,253,421	487,274
Agriculture, Food, and Forestry, Department of	634,804	0	634,804	634,804	0	0
Environmental Quality, Department of	80,399	0	80,399	30,399	0	50,000
Health, Department of	608,140	608,140	0	0	0	0
Human Services, Department of	134,244	134,244	0	0	0	0

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2019

(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
Tobacco Settlement Endowment Trust	12,300,000	0	12,300,000	9,300,000	0	3,000,000
Transportation, Department of	6,511,466	943,074	5,568,392	3,998,892	0	1,569,500
Wildlife Conservation, Department of	3,585,283	0	3,585,283	2,249,999	7,248	1,328,036
Oregon	44,222,659	24,761,784	19,460,875	13,099,132	5,359,291	1,002,452
Agriculture, Department of	388,762	0	388,762	388,762	0	0
Business Oregon	14,800,000	0	14,800,000	10,000,000	4,800,000	0
Education, Department of	657,595	657,595	0	0	0	0
Environmental Quality, Department of	458,000	41,000	417,000	417,000	0	0
Fish and Wildlife, Department of	14,235,414	12,974,798	1,260,616	1,260,616	0	0
Forestry, Department of	522,777	383,592	139,185	44,915	74,565	19,705
Geology and Mineral Industries, Department of	814,431	814,431	0	0	0	0
Human Services, Department of	5,535,728	5,535,728	0	0	0	0
Transportation, Department of	5,090,034	3,901,901	1,188,133	987,839	109,573	90,721
Water Resources Department	810,484	435,331	375,153	0	375,153	0
Watershed Enhancement Board	909,434	17,408	892,026	0	0	892,026
Pennsylvania	85,050,999	8,579,205	76,471,794	56,916,243	2,330,059	17,225,492
Agriculture, Department of	2,187,000	0	2,187,000	1,459,449	727,551	0
Community and Economic Development, Department of	21,600,000	0	21,600,000	4,600,000	0	17,000,000
Conservation and Natural Resources, Department of	42,124	42,124	0	0	0	0
Environmental Protection, Department of	1,445,473	50,000	1,395,473	1,184,471	150,000	61,002
Fish and Boat Commission	131,845	93,639	38,206	38,206	0	0
Game Commission	9,287,658	7,796,543	1,491,115	384,117	952,508	154,490
Health, Department of	46,293,000	0	46,293,000	46,293,000	0	0
Susquehanna River Basin Commission	150,000	130,000	20,000	10,000	0	10,000
Transportation, Department of	3,913,899	466,899	3,447,000	2,947,000	500,000	0
Rhode Island	5,512,380	2,767,111	2,745,269	555,519	1,622,583	567,167
Commerce Corporation	1,203,652	0	1,203,652	381,069	822,583	0
Environmental Management, Department of	3,028,728	2,667,111	361,617	49,450	0	312,167
Transportation, Department of	1,225,000	100,000	1,125,000	125,000	800,000	200,000
Water Resources Board	55,000	0	55,000	0	0	55,000
South Carolina	46,983,243	28,876,294	18,106,949	4,550,112	770,248	12,786,589
Agriculture, Department of	1,035,394	0	1,035,394	1,035,394	0	0
Disabilities and Special Needs, Department of	12,226,376	0	12,226,376	0	0	12,226,376
Health and Environmental Control, Department of	1,585,652	1,331,451	254,201	200,939	0	53,262
Mental Health, Department of	100,884	0	100,884	100,884	0	0
Natural Resources, Department of	26,062,760	25,807,753	255,007	245,007	10,000	0
Public Service Authority	30,000	0	30,000	30,000	0	0
Research Authority	1,401,205	0	1,401,205	640,957	760,248	0
Sea Grant Consortium	2,381,593	1,687,833	693,760	655,630	0	38,130
Transportation, Department of	2,159,379	49,257	2,110,122	1,641,301	0	468,821
South Dakota	2,953,214	361,072	2,592,142	1,635,276	600,435	356,431
Corn Utilization Council	250,000	0	250,000	250,000	0	0
Oilseeds Council	216,845	0	216,845	42,914	0	173,931

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2019

(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
Pulse Crop Council	13,352	0	13,352	13,352	0	0
Science and Technology Authority	39,853	0	39,853	39,853	0	0
Soybean Research and Promotion Council	718,122	12,965	705,157	522,657	0	182,500
Transportation, Department of	1,222,798	348,107	874,691	274,256	600,435	0
Weed and Pest Control Commission	45,314	0	45,314	45,314	0	0
Wheat Commission	446,930	0	446,930	446,930	0	0
Tennessee	7,439,395	1,710,689	5,728,706	5,362,863	203,125	162,718
Education, Department of	3,319,120	1,168,921	2,150,199	2,140,199	0	10,000
Environment and Conservation, Department of	843,184	372,341	470,843	115,000	203,125	152,718
Geological Survey	169,427	169,427	0	0	0	0
Transportation, Department of	3,107,664	0	3,107,664	3,107,664	0	0
Texas	233,030,466	3,855,855	229,174,611	197,242,687	30,913,924	1,018,000
Agriculture, Department of	1,229,300	0	1,229,300	723,173	0	506,127
Alzheimer's Research and Care Consortium (TARCC)	3,204,342	0	3,204,342	3,204,342	0	0
Cancer Prevention and Research Institute	201,159,271	0	201,159,271	170,695,783	30,463,488	0
Environmental Quality, Commission on	1,687,165	96,160	1,591,005	1,591,005	0	0
Parks and Wildlife Department	7,378,821	3,534,695	3,844,126	3,526,525	0	317,601
State Health Services, Department of	345,000	225,000	120,000	120,000	0	0
Transportation, Department of	17,294,677	0	17,294,677	17,294,677	0	0
Water Development Board	731,890	0	731,890	87,182	450,436	194,272
Utah	7,985,508	5,046,202	2,939,306	1,537,784	1,401,522	0
Environmental Quality, Department of	416,398	19,514	396,884	322,919	73,965	0
Health, Department of	12,780	12,780	0	0	0	0
Natural Resources, Department of	4,121,261	4,121,261	0	0	0	0
Transportation, Department of	3,435,069	892,647	2,542,422	1,214,865	1,327,557	0
Vermont	2,730,591	681,380	2,049,211	1,723,305	322,546	3,360
Agriculture, Food, and Markets, Agency of	308,227	0	308,227	0	308,227	0
Human Services, Agency of	210,747	210,747	0	0	0	0
Transportation, Agency of	2,211,617	470,633	1,740,984	1,723,305	14,319	3,360
Virginia	29,951,353	10,733,680	19,217,673	15,784,840	2,539,994	892,839
Aging and Rehabilitation, Department of	134,914	52,951	81,963	81,963	0	0
Agriculture and Consumer Services, Department of	2,615,452	0	2,615,452	2,417,307	8,145	190,000
Commonwealth Health Research Board	1,080,163	0	1,080,163	1,080,163	0	0
Environmental Quality, Department of	287,560	21,842	265,718	189,128	0	76,590
Forensic Science, Department of	854,800	854,800	0	0	0	0
Forestry, Department of	467,501	437,362	30,139	30,139	0	0
Foundation for Healthy Youth	858,392	0	858,392	858,392	0	0
Game and Inland Fisheries, Department of	2,296,869	0	2,296,869	1,831,120	39,500	426,249
Innovative Technology, Center for	4,416,750	634,826	3,781,924	1,264,575	2,317,349	200,000
Marine Resources Commission	2,471,043	0	2,471,043	2,471,043	0	0
Mines, Minerals and Energy, Department of	655,308	617,808	37,500	12,500	25,000	0
Natural History, Museum of	872,668	872,668	0	0	0	0
Social Services, Department of	150,000	0	150,000	0	150,000	0

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2019

(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	12,789,933	7,241,423	5,548,510	5,548,510	0	0
Washington	51,963,060	19,986,935	31,976,125	18,755,971	5,056,820	8,163,334
Agriculture, Department of	2,767,808	0	2,767,808	2,042,177	20,000	705,631
Alfalfa Seed Commission	34,000	0	34,000	34,000	0	0
Asparagus Commission	74,166	0	74,166	0	74,166	0
Blueberry Commission	252,000	0	252,000	0	252,000	0
Commerce, Department of	5,826,443	0	5,826,443	278,639	2,126,562	3,421,242
Cranberry Commission	6,000	0	6,000	6,000	0	0
Dairy Products Commission	15,000	0	15,000	15,000	0	0
Ecology, Department of	882,120	612,918	269,202	13,078	256,124	0
Fish and Wildlife, Department of	8,390,579	8,375,177	15,402	0	0	15,402
Fruit Commission	306,223	0	306,223	57,142	249,081	0
Grain Commission	2,224,046	0	2,224,046	2,224,046	0	0
Health, Department of	1,108,855	1,053,412	55,443	55,443	0	0
Hop Commission	168,357	0	168,357	142,357	26,000	0
Labor and Industries, Department of	3,344,321	3,344,321	0	0	0	0
Mint Commission	50,382	0	50,382	50,382	0	0
Natural Resources, Department of	8,307,815	3,584,826	4,722,989	991,577	531,528	3,199,884
Oilseeds Commission	10,000	0	10,000	0	0	10,000
Pesticide Registration, Commission on	455,000	0	455,000	295,750	159,250	0
Potato Commission	953,022	0	953,022	736,254	50,000	166,768
Puget Sound Partnership	630,045	0	630,045	181,101	196,894	252,050
Pulse Crop Commission	187,098	0	187,098	187,098	0	0
Red Raspberry Commission	349,396	0	349,396	304,896	44,500	0
Seed Potato Commission	16,003	0	16,003	0	16,003	0
Transportation, Department of	5,596,000	1,410,000	4,186,000	3,345,000	841,000	0
Tree Fruit Research Commission	9,668,382	1,606,281	8,062,101	7,491,032	178,712	392,357
Turfgrass Seed Commission	100,815	0	100,815	65,815	35,000	0
Wine Commission	239,184	0	239,184	239,184	0	0
West Virginia	11,068,061	2,867,846	8,200,215	8,047,584	0	152,631
Geological and Economic Survey	1,713,935	1,316,725	397,210	244,579	0	152,631
Higher Education Policy Commission	5,571,715	153,833	5,417,882	5,417,882	0	0
Justice and Community Services, Division of	8,000	8,000	0	0	0	0
Natural Resources, Department of	1,649,700	1,284,700	365,000	365,000	0	0
Transportation, Department of	2,124,711	104,588	2,020,123	2,020,123	0	0
Wisconsin	17,473,890	5,043,609	12,430,281	3,653,031	5,317,013	3,460,237
Agriculture, Trade and Consumer Protection, Department of	2,768,097	0	2,768,097	1,737,169	51,160	979,768
Economic Development Corporation	4,750,000	0	4,750,000	0	4,750,000	0
Natural Resources, Department of	6,201,148	4,781,539	1,419,609	1,014,019	0	405,590
Transportation, Department of	3,754,645	262,070	3,492,575	901,843	515,853	2,074,879
Wyoming	6,002,910	1,286,491	4,716,419	895,831	3,665,731	154,857
Agriculture, Department of	380,882	0	380,882	136,893	89,132	154,857
Business Council	2,466,307	0	2,466,307	0	2,466,307	0
Enterprise Technology Services	41,420	41,420	0	0	0	0
Game and Fish Department	1,110,856	977,107	133,749	133,749	0	0
State Engineer, Office of	250,000	0	250,000	250,000	0	0
State Geological Survey	183,963	183,963	0	0	0	0
Transportation, Department of	1,218,971	84,001	1,134,970	24,678	1,110,292	0

TABLE 20

State agency expenditures for R&D, by state, department or agency, and performer: FY 2019

(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
Water Development Office	350,511	0	350,511	350,511	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 includes federal government; nonprofit organizations; city, county, regional, or other local governments; and other state 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 2019.