

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019			2019	2019	2016	2017		
All institutions	-	3,981,534	3,964,817	4,087,552	4,266,544	3,428,585	837,959	1,291,555	1,247,111	1,269,298	1,357,437	989,573	367,864
U. Florida	1	175,833	183,183	195,362	203,199	182,978	20,221	38,507	36,668	40,329	47,246	41,031	6,215
Texas A&M U., College Station and Health Science Center	2	179,738	192,639	190,226	197,366	184,299	13,067	37,884	41,602	44,092	50,436	42,001	8,435
U. California, Davis	3	142,581	141,734	155,642	153,739	153,739	0	38,682	32,218	32,921	34,738	34,738	0
Michigan State U.	4	134,890	145,456	151,818	152,185	136,723	15,462	50,980	56,810	55,336	54,697	52,627	2,070
Purdue U., West Lafayette	5	130,723	127,962	126,486	138,419	138,419	0	39,395	38,781	37,846	36,973	36,973	0
Cornell U.	6	119,342	113,483	129,201	138,182	118,509	19,673	34,264	32,830	32,841	36,625	33,439	3,186
U. Illinois, Urbana-Champaign	7	130,936	121,633	122,775	131,139	59,210	71,929	42,825	42,868	39,805	49,187	19,709	29,478
Colorado State U., Fort Collins	8	121,238	43,368	68,172	123,760	50,080	73,680	88,565	20,029	39,558	85,722	18,884	66,838
U. Minnesota, Twin Cities	9	107,127	108,226	109,175	116,791	64,132	52,659	26,649	26,159	25,879	26,814	16,638	10,176
U. Nebraska, Lincoln	10	103,108	102,007	108,148	112,979	97,932	15,047	21,148	23,795	27,443	29,816	25,138	4,678
North Carolina State U.	11	122,545	113,295	112,533	111,537	111,537	0	18,755	22,908	18,549	17,763	17,763	0
Mississippi State U.	12	105,496	109,002	105,102	109,892	95,384	14,508	27,250	28,314	28,006	30,989	26,606	4,383
Washington State U.	13	101,892	101,501	100,525	106,954	105,278	1,676	32,593	37,255	27,763	26,881	26,750	131
Virginia Polytechnic Institute and State U.	14	108,244	100,934	96,684	100,295	73,691	26,604	34,106	28,301	27,335	29,316	19,431	9,885
U. Georgia	15	89,453	88,456	87,780	100,059	100,006	53	30,029	32,284	30,145	30,966	30,966	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019			2019	2019	2016	2017		
Pennsylvania State U., University Park and Hershey Medical Center	16	90,511	87,362	101,090	96,302	95,580	722	38,689	37,207	37,751	37,565	37,503	62
Oregon State U.	17	84,438	87,700	93,555	93,606	75,734	17,872	33,999	33,957	35,539	37,641	27,710	9,931
Kansas State U.	18	81,470	85,334	83,800	85,363	85,363	0	23,135	26,666	24,565	23,652	23,652	0
North Dakota State U.	19	88,979	85,322	81,580	82,904	73,697	9,207	12,346	10,367	10,765	9,164	7,844	1,320
U. Missouri, Columbia	20	76,235	76,428	77,947	79,531	64,824	14,707	21,518	21,436	21,533	20,725	14,064	6,661
Louisiana State U., Baton Rouge	21	78,195	69,367	75,245	76,202	67,304	8,898	11,025	8,616	9,274	9,992	7,781	2,211
U. Wisconsin-Madison	22	74,146	81,700	75,751	75,409	74,783	626	23,810	22,497	19,797	19,524	19,490	34
U. California, Berkeley	23	62,909	66,885	72,256	73,608	5,966	67,642	20,547	22,549	24,148	24,607	155	24,452
U. Arkansas, Fayetteville	24	68,947	66,852	68,912	72,044	70,041	2,003	12,386	10,712	12,676	13,421	12,120	1,301
Iowa State U.	25	55,997	54,421	66,427	67,222	58,811	8,411	18,928	18,605	22,454	20,865	17,610	3,255
U. Maryland ^a	26	na	na	na	65,185	62,507	2,678	na	na	na	31,021	28,732	2,289
U. Arizona	27	50,236	54,655	57,804	64,228	51,474	12,754	16,072	16,698	16,560	20,132	14,380	5,752
U. Kentucky	28	62,745	62,780	68,360	62,898	62,898	0	17,148	13,651	15,775	13,561	13,561	0
Ohio State U.	29	62,247	59,046	61,032	62,584	50,853	11,731	24,590	19,604	20,534	22,364	16,632	5,732
Rutgers, State U. New Jersey, New Brunswick	30	42,342	52,210	47,795	55,587	55,587	0	10,979	13,684	28,189	27,297	27,297	0
Auburn U., Auburn	31	58,753	47,872	58,627	55,586	54,306	1,280	11,202	11,398	12,367	12,167	11,485	682
Utah State U.	32	54,332	52,451	53,684	54,897	38,695	16,202	24,544	26,086	22,532	23,462	15,262	8,200
U. Idaho	33	45,053	48,686	51,255	51,993	43,426	8,567	15,303	14,922	16,203	17,193	14,649	2,544

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019			2019	2019	2016	2017		
U. Tennessee, Knoxville, Institute of Agriculture	34	46,753	52,103	50,891	50,685	41,602	9,083	10,555	17,293	15,831	16,389	11,316	5,073
Oklahoma State U., Stillwater	35	66,158	32,827	35,797	47,191	37,016	10,175	11,322	3,434	3,467	8,452	5,061	3,391
Montana State U., Bozeman	36	26,397	38,297	38,318	40,480	40,178	302	8,443	8,684	8,331	11,189	11,038	151
South Dakota State U.	37	27,233	30,661	36,049	39,655	35,585	4,070	10,613	9,255	10,460	13,850	11,450	2,400
New Mexico State U.	38	30,424	26,810	28,609	31,401	31,352	49	7,852	5,424	6,412	8,008	7,971	37
Texas Tech U.	39	27,332	31,234	32,593	31,174	26,680	4,494	3,349	3,526	3,171	2,939	2,181	758
U. Delaware	40	31,939	31,177	27,344	29,062	29,062	0	12,770	10,871	6,739	8,129	8,129	0
U. Maine	41	18,532	25,718	27,061	27,537	18,217	9,320	7,040	7,561	12,443	13,365	8,533	4,832
U. Washington, Seattle	42	34,141	35,434	28,894	25,620	319	25,301	22,467	21,865	17,313	13,468	0	13,468
Clemson U.	43	17,647	21,253	23,563	24,183	24,150	33	4,474	6,783	6,461	6,713	6,713	0
West Virginia U.	44	27,704	26,080	23,351	23,859	14,302	9,557	11,034	9,198	8,788	8,696	4,791	3,905
U. Wyoming	45	25,570	15,934	14,331	23,815	10,856	12,959	13,093	10,756	8,453	15,768	7,174	8,594
U. Michigan, Ann Arbor	46	20,299	20,403	22,338	23,814	2,065	21,749	6,597	7,351	8,495	9,692	0	9,692
U. New Hampshire	47	26,660	27,747	22,317	22,422	15,181	7,241	14,937	15,632	14,809	9,797	4,461	5,336
U. California, Riverside	48	17,790	18,553	19,160	22,199	22,199	0	5,700	5,357	4,930	5,489	5,489	0
U. Massachusetts, Amherst	49	23,585	20,446	19,423	18,524	10,311	8,213	12,347	10,938	10,141	9,335	5,090	4,245
U. Minnesota, Duluth	50	18,651	18,418	18,181	18,103	0	18,103	3,691	4,116	3,409	3,593	0	3,593
U. Montana, Missoula	51	15,054	19,807	16,488	17,211	311	16,900	7,599	9,007	8,872	8,856	0	8,856

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019			2019	2019	2016	2017		
U. Hawaii, Manoa	52	18,661	20,653	16,823	16,788	15,200	1,588	8,082	8,476	8,052	7,688	6,690	998
U. Vermont	53	15,272	15,856	19,587	16,668	13,453	3,215	7,206	7,708	10,857	7,045	6,847	198
U. Alaska, Fairbanks	54	12,184	10,797	17,027	16,511	14,651	1,860	3,367	3,479	4,575	3,161	3,075	86
SUNY, C. of Environmental Science and Forestry	55	9,386	11,975	13,834	16,314	2,982	13,332	3,578	3,341	3,370	4,073	919	3,154
North Carolina Agricultural and Technical State U.	56	17,393	18,011	16,218	15,671	13,060	2,611	7,557	8,353	6,899	6,070	3,829	2,241
Texas A&M U.-Kingsville	57	13,979	13,938	13,610	15,316	15,316	0	3,363	3,419	3,324	4,350	4,350	0
U. Connecticut	58	12,637	13,206	12,197	12,984	10,079	2,905	4,321	4,538	4,187	4,634	3,289	1,345
U. Nevada, Reno	59	13,707	15,083	12,534	12,216	8,118	4,098	3,467	4,359	5,220	4,520	3,172	1,348
Yale U.	60	11,055	12,615	12,498	11,773	0	11,773	5,417	6,808	6,526	5,609	0	5,609
Florida A&M U.	61	10,755	12,736	9,811	11,244	10,801	443	8,323	10,081	7,776	8,761	8,343	418
Southern Illinois U., Carbondale	62	13,927	11,039	11,463	10,934	10,750	184	3,549	2,371	2,604	2,946	2,946	0
Tennessee State U.	63	10,918	10,309	10,896	9,543	9,282	261	5,777	4,745	4,488	4,697	4,511	186
Duke U.	64	10,756	8,074	7,897	9,051	0	9,051	6,711	4,965	5,548	5,576	0	5,576
Southern Illinois U., Edwardsville	65	6,332	4,891	5,702	8,809	8,783	26	0	0	0	0	0	0
Langston U.	66	9,770	8,933	8,851	8,768	8,768	0	7,770	6,631	5,953	5,274	5,274	0
Princeton U.	67	2,716	5,785	5,555	8,634	0	8,634	36	407	822	2,189	0	2,189
Alcorn State U.	68	4,727	9,516	8,690	8,578	8,141	437	3,556	5,009	4,728	4,752	4,360	392
Kentucky State U.	69	6,842	7,647	8,599	8,139	8,042	97	4,930	4,878	5,092	4,398	4,301	97

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019			2019	2019	2016	2017		
Prairie View A&M U.	70	7,844	7,857	7,543	7,912	7,851	61	5,278	5,317	4,765	5,178	5,117	61
U. Maryland Center for Environmental Science	71	1,023	5,254	7,286	7,704	1,083	6,621	703	3,440	5,158	6,187	506	5,681
California Polytechnic State U., San Luis Obispo	72	2,495	3,041	2,649	7,625	7,016	609	393	522	738	807	617	190
U. Arkansas, Pine Bluff	73	6,525	6,579	6,848	7,621	7,621	0	2,994	3,113	3,104	3,746	3,746	0
U. Illinois, Chicago	74	2,898	4,706	5,009	7,486	0	7,486	918	723	744	883	0	883
U. California, Santa Barbara	75	6,688	10,621	9,162	7,124	0	7,124	2,427	4,353	2,041	994	0	994
Delaware State U.	76	7,701	7,455	6,186	6,824	6,823	1	5,046	5,535	3,750	3,414	3,414	0
Virginia State U.	77	4,927	5,785	6,767	6,814	6,814	0	3,482	3,391	3,807	4,029	4,029	0
U. Guam	78	2,454	2,942	5,838	6,611	2,405	4,206	2,350	2,741	3,771	4,168	1,570	2,598
Northern Arizona U.	79	6,497	8,196	6,524	6,576	2,275	4,301	2,614	4,070	2,195	3,163	274	2,889
U. Kansas	80	1,645	2,383	7,908	6,528	858	5,670	914	1,397	2,817	3,368	240	3,128
Tarleton State U.	81	5,311	5,724	6,209	6,470	6,409	61	3,663	3,759	4,016	4,293	4,253	40
Humboldt State U.	82	3,193	3,081	4,917	5,983	178	5,805	804	855	1,187	1,313	137	1,176
Tuskegee U.	83	8,663	8,663	7,041	5,756	5,756	0	4,451	4,451	4,451	4,984	4,984	0
U. South Carolina, Columbia	84	4,050	6,408	7,158	5,470	0	5,470	2,287	3,193	3,911	3,297	0	3,297

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed						
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019	
Southern U. and A&M C., Agricultural Research and Extension Center	85	4,704	5,000	i 5,296	4,541	4,014	527	2,415	2,736	i 3,057	3,057	3,057	0	
U. New Mexico	86	0	300	3,635	4,418	18	4,400	0	300	2,341	2,810	14	2,796	
Fort Valley State U.	87	4,415	4,790	3,344	4,136	4,136	0	4,206	4,551	3,174	4,066	4,066	0	
Stanford U.	88	5,686	3,933	3,797	3,933	0	3,933	151	249	407	1,197	0	1,197	
Georgia Institute of Technology	89	3,781	3,787	4,177	3,831	3,831	0	443	174	225	166	166	0	
Columbia U. in the City of New York	90	12,323	8,924	4,104	3,793	0	3,793	4,753	3,509	1,615	1,413	0	1,413	
U. of the Virgin Islands	91	3,088	3,993	4,043	3,751	3,728	23	3,088	2,769	3,139	2,692	2,669	23	
California State U., Fresno	92	3,357	2,957	2,867	3,686	3,686	0	270	227	405	405	405	0	
Portland State U.	93	4,195	3,298	3,921	3,626	111	3,515	3,087	2,242	2,389	1,921	82	1,839	
West Virginia State U.	94	3,447	3,966	3,483	3,551	3,090	461	2,559	2,972	2,650	2,576	2,165	411	
Harvard U.	95	0	3,066	i 4,370	i 3,435	i 0	3,435	i 0	2,040	i 2,350	i 2,135	i 0	2,135	i
Massachusetts Institute of Technology	96	0	818	3,370	3,005	2,114	891	0	127	88	71	71	0	
Lincoln U., Jefferson City	97	3,414	3,287	3,120	2,947	2,822	125	2,541	2,271	1,638	1,498	1,434	64	
West Texas A&M U.	98	2,284	2,997	2,716	2,877	2,721	156	390	430	382	313	201	112	
Central State U.	99	342	1,217	2,808	2,871	2,689	182	245	700	1,492	1,622	1,532	90	
U. California, Santa Cruz	100	2,386	2,787	3,052	2,724	2,724	0	43	6	6	85	85	0	

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019
Drexel U.	101	3,183	3,554	7,868	2,650	0	2,650	350	304	197	105	0	105
Florida International U.	102	3,283	2,725	2,940	2,604	62	2,542	1,664	1,574	1,631	1,881	54	1,827
Brigham Young U., Provo	103	5,459	4,254	2,766	2,583	2,583	0	4,029	2,821	1,542	1,274	1,274	0
U. California, Office of the President	104	2,316	2,328	2,418	2,552	2,552	0	160	98	129	117	117	0
U. Rhode Island	105	1,556	1,740	1,909	2,546	2,546	0	851	1,060	959	1,254	1,254	0
U. of the District of Columbia	106	1,614	1,813	1,626	2,538	2,538	0	763	882	738	1,083	1,083	0
Florida State U.	107	385	2,852	3,825	2,428	207	2,221	138	284	415	592	65	527
Northwestern U.	108	1,234	1,823	2,868	2,242	0	2,242	277	746	734	668	0	668
U. Wisconsin-Superior	109	ne	ne	2,908	2,122	0	2,122	ne	ne	1,808	1,401	0	1,401
U. Nebraska, central administration	110	ne	ne	1,747	2,074	2,074	0	ne	ne	1,615	1,935	1,935	0
U. North Carolina, Wilmington	111	1,708	2,456	2,464	2,019	1,850	169	462	831	1,072	794	769	25
Arkansas State U., Jonesboro	112	1,479	1,540	1,440	1,983	1,983	0	762	803	780	1,237	1,237	0
Stephen F. Austin State U.	113	2,131	1,992	1,533	1,804	1,780	24	794	735	564	589	589	0
U. Texas Health Science Center, Tyler	114	645	1,737	1,618	1,687	1,687	0	645	1,737	1,618	1,687	1,687	0
U. Louisiana, Lafayette	115	6	9	34	1,647	1,647	0	0	0	0	213	213	0
Cold Spring Harbor Laboratory	116	0	0	568	1,622	1,622	0	0	0	423	1,535	1,535	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019
Sul Ross State U.	117	1,147	1,559	2,001	1,578	114	1,464	272	439	504	330	0	330
U. Hawaii, Hilo	118	2,706	2,200	1,671	1,574	1,463	111	2,128	1,743	1,150	835	813	22
U. Texas, Austin	119	1,825	8,070	7,686	1,550	83	1,467	331	1,920	1,911	488	35	453
California State U., Monterey Bay	120	975	1,209	1,211	1,501	1,501	0	207	514	491	506	506	0
U. Texas, El Paso	121	2,549	2,510	2,016	1,457	0	1,457	873	1,111	1,129	658	0	658
U. Miami	122	130	1,530	2,353	1,403	0	1,403	0	1,236	1,410	1,025	0	1,025
California State Polytechnic U., Pomona	123	1,610	1,681	1,751	1,381	1,381	0	237	431	335	287	287	0
U. Puerto Rico, Mayaguez	124	1,565	1,223	792	1,301	1,301	0	278	185	265	838	838	0
Illinois Institute of Technology	125	1,010	2,106	1,791	1,207	1,207	0	1,009	1,941	1,631	1,147	1,147	0
Boise State U.	126	65	660	529	1,202	516	686	48	450	251	807	405	402
Missouri State U.	127	1,038	746	1,036	1,199	602	597	909	735	998	885	478	407
Hobart and William Smith Colleges	128	ne	256	ne	1,185	13	1,172	ne	44	ne	618	13	605
U. Texas Rio Grande Valley	129	431	534	791	1,121	883	238	30	122	576	894	846	48
Syracuse U.	130	1,074	1,134	1,040	1,104	223	881	863	908	891	837	185	652
Tufts U.	131	0	29,339	3,280	1,048	1,048	0	0	15,774	1,960	197	197	0
Tennessee Technological U.	132	1,635	1,766	868	1,041	434	607	217	235	291	390	92	298
U. Notre Dame	133	993	1,340	1,405	993	993	0	10	0	0	0	0	0
St. Edward's U.	134	0	1,334	372	980	620	360	0	1,090	184	950	600	350

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019
Dartmouth C. and Dartmouth Hitchcock Medical Center	135	1,347	1,494	1,482	949	0	949	880	1,092	997	602	0	602
U. Pennsylvania	136	620	918	945	926	926	0	0	160	200	150	150	0
Alabama A&M U.	137	1,666 i	1,419 i	1,172 i	925 i	737 i	188 i	939 i	766 i	592 i	419 i	307 i	112 i
Louisiana Tech U.	138	755	671	781	917	917	0	295	289	320	361	361	0
Albany State U.	139	360	482	429	892	389	503	26	142	255	484	0	484
American Samoa Community C.	140	793	ne	ne	860	860	0	793	ne	ne	860	860	0
U. Colorado Boulder	141	12	1,235	214	839	342	497	0	22	65	418	302	116
U. Massachusetts, Boston	142	112	3	262	808	0	808	33	3	2	6	0	6
CUNY, Advanced Science Research Center	143	ne	0	0	805	23	782	ne	0	0	703	23	680
U. Oregon	144	0	909	947	778	0	778	0	608	793	659	0	659
William & Mary	144	745	424	1,338	778	778	0	255	257	334	366	366	0
Carnegie Mellon U.	146	477	746	878	774	774	0	406	609	780	685	685	0
Arizona State U.	147	372	257	21	764	0	764	243	139	11	6	0	6
California State U., Chico	148	740	603	899	759	759	0	73	107	179	166	166	0
U. Southern Maine	149	76	836	768	750	628	122	14	2	9	12	12	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019
U. Maryland, Baltimore County	150	0	0	0	738	738	0	0	0	0	412	412	0
Clark U.	151	193	11	115	724	711	13	155	0	104	711	711	0
Hawaii Pacific U.	152	755	873	712	700	700	0	750	873	712	700	700	0
U. Nebraska, Kearney	153	255	723	451	692	243	449	255	251	296	420	193	227
Texas A&M U.-Commerce	154	198	207	255	688	688	0	15	16	25	15	15	0
San Diego State U.	155	578	837	554	683	0	683	251	270	232	278	0	278
Middle Tennessee State U.	156	250	385	433	640	640	0	191	221	273	362	362	0
Loyola U., Chicago	157	481	750	724	616	0	616	299	360	506	470	0	470
U. Maryland, Eastern Shore	158	4,433	1,893	194	615	386	229	4,131	1,893	186	611	382	229
Georgia State U.	159	368	320	382	592	592	0	139	53	15	54	54	0
Montclair State U.	160	128	155	470	582	72	510	4	42	323	110	72	38
San Francisco State U.	161	33	0	221	581	0	581	0	0	3	146	0	146
Baylor U.	162	122	192	440	576	64	512	0	67	204	131	58	73
Pacific U.	163	13	0	163	569	15	554	13	0	0	13	13	0
U. Washington, Tacoma	164	33	0	23	563	0	563	0	0	23	385	0	385
SUNY, C. Brockport	165	827	668	783	557	141	416	348	363	363	167	6	161
Western Kentucky U.	166	603	507	545	548	548	0	393	229	237	334	334	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019
California State U., San Bernardino	167	723	767	498	509	509	0	589	582	439	447	447	0
Rhode Island School of Design	168	9 i	9 i	76 i	500 i	0 i	500 i	0 i	0 i	12 i	177 i	0 i	177 i
U. South Florida, Saint Petersburg	169	298	335	498	499	0	499	169	143	316	270	0	270
Western U. of Health Sciences	170	228	184	367	492	492	0	28	50	210	430	430	0
U. Texas, Arlington	171	0	0	464	485	0	485	0	0	8	4	0	4
U. Alaska, Anchorage	172	374	187	938	482	482	0	66	41	235	177	177	0
Colorado State U., Pueblo	173	ne	ne	ne	470	470	0	ne	ne	ne	0	0	0
Bowling Green State U.	174	108	91	97	463	294	169	100	38	49	81	5	76
U. Massachusetts, Lowell	175	0	0	233	457	0	457	0	0	0	0	0	0
California State U., Fullerton	176	1	36	299	416	296	120	0	21	277	340	296	44
Santa Clara U.	177	130	230	222	409	219	190	130	127	59	198	198	0
U. Missouri, Saint Louis	178	221	230	221	407	1	406	129	59	16	202	1	201
George Mason U.	179	220	490	628	402	69	333	170	284	239	290	60	230
U. Virginia, Charlottesville	180	0	0	98	391	0	391	0	0	0	0	0	0
Tulane U.	181	552	388	431	384	0	384	452	353	282	130	0	130
Texas State U.	182	562	331	386	349	349	0	507	311	331	296	296	0
U. Toledo	183	81	524	74	338	109	229	60	70	54	311	82	229

TABLE 43
Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019
Dine C.	184	ne	ne	215	330	310	20	ne	ne	215	330	310	20
Sam Houston State U.	185	58	59	105	289	289	0	33	41	78	283	283	0
Colorado School of Mines	186	0	0	29	288	288	0	0	0	29	288	288	0
California State U., Sacramento	187	112	86	353	286	0	286	100	3	264	268	0	268
Eastern Washington U.	188	0	0	354	281	0	281	0	0	354	281	0	281
U. Wisconsin-Platteville	189	ne	124	ne	280	203	77	ne	43	ne	77	59	18
California State U., Northridge	190	0	0	196	273	273	0	0	0	196	273	273	0
Appalachian State U.	191	259	456	429	258	195	63	101	301	219	99	46	53
U. Denver	192	0	125	156	251	0	251	0	125	115	221	0	221
Florida Atlantic U.	193	994	1,025	259	249	249	0	442	267	259	249	249	0
U. Dayton	194	19	73	454	237	0	237	0	36	391	212	0	212
U. Alaska, Southeast	195	0	212	271	224	91	133	0	190	271	173	91	82
U. North Carolina, Asheville	196	0	270	764	222	0	222	0	0	222	29	0	29
Western Illinois U.	197	ne	91	146	216	177	39	ne	46	72	120	81	39
U. Texas, Tyler	198	297	268	206	215	0	215	53	0	13	0	0	0
Salish Kootenai C.	199	171	116	94	213	141	72	171	116	94	213	141	72
U. North Texas, Denton	199	64	20	0	213	213	0	45	14	0	189	189	0
Dickinson C.	201	4	62	ne	211	23	188	4	51	ne	101	11	90

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019
Southern U. and A&M C., Baton Rouge	202	98	219	184	210	156	54	51	157	184	210	156	54
Michigan Technological U.	203	0	0	0	209	0	209	0	0	0	0	0	0
CUNY, Lehman C.	204	0	0	0	205	205	0	0	0	0	0	0	0
Temple U.	205	1,293	671	393	194	194	0	49	168	175	194	194	0
U. Nevada, Las Vegas	205	0	0	49	194	32	162	0	0	42	149	32	117
Central Michigan U.	207	721	771	348	192	192	0	255	358	289	98	98	0
Colorado C.	208	191	94	73	190	0	190	54	25	32	103	0	103
Occidental C.	209	0	0	172	179	179	0	0	0	172	179	179	0
Texas A&M U.-Corpus Christi	210	241	227	82	177	34	143	29	69	15	137	34	103
Austin Peay State U.	211	179	157	183	176	60	116	179	157	150	25	25	0
U. Wisconsin-Green Bay	212	0 i	0 i	24 i	174 i	144 i	30 i	0 i	0 i	7 i	39 i	29 i	10 i
California State U., Channel Islands	213	106	35	133	157	0	157	71	21	107	64	0	64
U. Houston	214	25	99	20	153	22	131	25	99	20	153	22	131
U. Northern Iowa	215	204	110	199	152	152	0	118	24	67	78	78	0
Fayetteville State U.	216	557	236	178	150	0	150	557	236	178	150	0	150
Chapman U.	217	132	274	241	147	147	0	105	200	186	0	0	0
Morgan State U.	218	550	853	435	139	139	0	195	288	214	68	68	0
U. Tennessee, Knoxville	219	467	94	133	137	45	92	52	0	0	0	0	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019			2019	2019	2016	2017		
Wellesley C.	220	0	0	0	133	0	133	0	0	0	111	0	111
C. Charleston	221	281	131	156	132	0	132	71	54	105	75	0	75
Georgia Southern U.	222	78	0	0	120	11	109	0	0	0	73	11	62
Johnson C. Smith U.	223	58	25	36	116	116	0	58	0	0	0	0	0
Western Carolina U.	223	101	66	86	116	116	0	89	56	73	98	98	0
Drake U.	225	0	61	54	114	0	114	0	5	0	0	0	0
SUNY, Binghamton U.	226	0	0	4	109	0	109	0	0	0	0	0	0
U. North Georgia	227	ne	1	2	106	0	106	ne	0	2	16	0	16
U. South Carolina, Aiken	228	0	0	0	105	105	0	0	0	0	105	105	0
Northwest Indian C.	229	ne	ne	242	104	104	0	ne	ne	242	104	104	0
Pittsburg State U.	230	0	2	27	100	0	100	0	0	0	11	0	11
Alfred U.	231	0	0	0	98	98	0	0	0	0	98	98	0
Bethune-Cookman U.	232	ne	ne	50	97	0	97	ne	ne	50	97	0	97
Kent State U.	233	384	220	0	93	0	93	375	215	0	0	0	0
Monmouth U.	233	0	ne	ne	93	0	93	0	ne	ne	0	0	0
Marquette U.	235	0	94	36	92	92	0	0	24	36	92	92	0
Pennsylvania State U., Harrisburg	236	0	0	93	89	55	34	0	0	57	5	0	5
Creighton U.	237	0	0	90	88	0	88	0	0	10	14	0	14
Murray State U.	237	68	29	23	88	88	0	0	0	0	52	52	0
U. Washington, Bothell	237	0	0	0	88	0	88	0	0	0	0	0	0
Eastern Michigan U.	240	75	226	198	85	1	84	43	101	69	46	0	46

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019
St. Olaf C.	240	39	18	24	85	77	8	0	0	0	68	68	0
U. New England	240	950	21	39	85	5	80	456	0	3	27	0	27
U. Colorado Denver and Anschutz Medical Campus	243	0	42	64	82	12	70	0	42	64	82	12	70
James Madison U.	244	0	0	40	80	2	78	0	0	0	69	0	69
Ball State U.	245	33	59	49	79	0	79	1	4	0	0	0	0
Towson U.	246	36	0	80	76	76	0	0	0	80	76	76	0
Alaska Pacific U.	247	0	7	34	71	49	22	0	7	19	71	49	22
Southern Connecticut State U.	247	0	0	60	71	68	3	0	0	47	68	68	0
Texas A&M International U.	249	58	48	78	66	12	54	58	48	77	12	12	0
California State U., Stanislaus	250	22	77	69	65	65	0	22	77	69	65	65	0
U. Wisconsin-Stevens Point	251	49 i	51 i	54 i	60 i	0 i	60 i	13 i	13 i	12 i	15 i	0 i	15 i
Texas Christian U.	252	0	0	0	57	42	15	0	0	0	0	0	0
Illinois State U.	253	479	352	256	50	50	0	147	26	23	30	30	0
Texas Woman's U.	253	0	0	213	50	50	0	0	0	213	50	50	0
Pennsylvania State U., Behrend	255	630	83	70	49	0	49	258	0	0	0	0	0
Miami U.	256	0	3	86	48	48	0	0	2	86	0	0	0
U. Alabama, Tuscaloosa	257	0	0	0	47	10	37	0	0	0	25	0	25

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019			2019	2019	2016	2017		
U. Puerto Rico, Cayey	258	134	47	10	45	0	45	97	47	10	45	0	45
CUNY, Baruch C.	259	0	0	57	39	0	39	0	0	19	20	0	20
U. Hartford	260	19	19	0	38	38	0	0	0	0	38	38	0
U. North Carolina, Chapel Hill	260	22	29	12	38	0	38	0	0	0	0	0	0
Florida Gulf Coast U.	262	0	0	55	36	0	36	0	0	0	22	0	22
Hofstra U.	263	2	9	3	34	0	34	2	3	3	0	0	0
U. Louisiana, Monroe	263	7	17	22	34	34	0	0	0	0	0	0	0
Roger Williams U.	265	0	0	28	33	33	0	0	0	0	0	0	0
U. San Francisco	266	0	0	9	31	0	31	0	0	0	0	0	0
Bates C.	267	45	32	0	30	0	30	0	0	0	0	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	268	6	17	81	27	0	27	0	0	40	1	0	1
C. Wooster	269	ne	33	25	26	26	0	ne	33	25	26	26	0
U. Memphis	269	0	0	0	26	0	26	0	0	0	0	0	0
U. Wisconsin-Milwaukee	269	0	0	0	26	0	26	0	0	0	0	0	0
New School	272	0	0	0	23	0	23	0	0	0	0	0	0
U. Arkansas, Little Rock	272	34	17	12	23	0	23	0	10	2	21	0	21
Barnard C.	274	0	0	0	21	21	0	0	0	0	10	10	0
Saginaw Valley State U.	275	56	68	42	20	20	0	5	0	0	0	0	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019
DePaul U.	276	0	0	0	19	0	19	0	0	0	1	0	1
Kennesaw State U.	276	0	0	0	19	19	0	0	0	0	19	19	0
Mills C.	276	0	0	0	19	2	17	0	0	0	0	0	0
U. Nebraska, Omaha	276	5	15	30	19	1	18	0	3	9	4	0	4
Davidson C.	280	0	0	0	18	0	18	0	0	0	0	0	0
U. Michigan, Dearborn	280	55	57	58	18	18	0	0	0	0	0	0	0
Northern Kentucky U.	282	0	0	0	17	0	17	0	0	0	0	0	0
Emerson C.	283	0	0	0	14	0	14	0	0	0	0	0	0
U. New Haven	283	0	27	61	14	0	14	0	27	29	6	0	6
U. Minnesota, Morris	285	16	20	ne	13	0	13	0	0	ne	0	0	0
Franklin and Marshall C.	286	104	0	17	12	0	12	104	0	0	0	0	0
U. Puerto Rico, Humacao	287	ne	ne	0	11	0	11	ne	ne	0	2	0	2
Heidelberg U.	288	1,194	1,198	368	10	10	0	230	12	0	0	0	0
Morehead State U.	288	0	4	17	10	10	0	0	0	10	0	0	0
St. Cloud State U.	288	0	0	0	10	0	10	0	0	0	0	0	0
U. Wisconsin-Eau Claire	288	0	0	0	10	0	10	0	0	0	0	0	0
Old Dominion U.	292	0	0	0	8	0	8	0	0	0	8	0	8
Dakota State U.	293	41	13	0	7	3	4	38	13	0	0	0	0
Gallaudet U.	293	1	1	10	7	0	7	1	1	10	5	0	5
Keene State C.	293	ne	0	ne	7	0	7	ne	0	ne	7	0	7
Pace U.	293	0	24	23	7	0	7	0	0	0	0	0	0
CUNY, Medgar Evers C.	297	ne	0	0	6	0	6	ne	0	0	6	0	6

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2019 agricultural sciences and natural resources conservation total: FYs 2016–19

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2016	2017	2018	2019	2019	2019	2016	2017	2018	2019	2019	2019
Eastern Kentucky U.	297	3	2	5	6	6	0	0	0	0	0	0	0
Midwestern U.	297	0	0	0	6	6	0	0	0	0	6	6	0
U. Northern Colorado	297	0	0	0	6	0	6	0	0	0	5	0	5
U. Illinois, Springfield	301	4	14	19	4	0	4	0	0	0	0	0	0
U. Louisville	301	67	206	137	4	4	0	62	66	8	0	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	301	0	0	228	4	0	4	0	0	140	4	0	4
Andrews U.	304	ne	ne	ne	3	3	0	ne	ne	ne	0	0	0
Furman U.	304	0	0	0	3	0	3	0	0	0	3	0	3
Claremont McKenna C.	306	0	0	2	1	0	1	0	0	0	0	0	0
Eastern Connecticut State U.	306	0	0	0	1	0	1	0	0	0	0	0	0
Salisbury U.	306	23	7	9	1	0	1	0	0	0	0	0	0
U. Central Florida	306	11	28	3	1	0	1	0	0	0	0	0	0
U. Cincinnati	306	0	0	0	1	0	1	0	0	0	0	0	0
U. Houston-Downtown	306	23	0	0	1	1	0	0	0	0	0	0	0
Willamette U.	306	0	0	9	1	0	1	0	0	0	0	0	0
Wright State U.	306	0	0	0	1	0	1	0	0	0	0	0	0
All other surveyed institutions	-	66,072	65,399	79,356	0	0	0	33,867	33,262	45,389	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

^a The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

Note(s):

Institutions reporting zero expenditures in ranked total for FY 2019 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.