Table B-1—Federal Expenditures by State for Agricultural, Forestry, and Veterinary Research and Development, As Reported by CRIS, FY86 (in dollars)

≤00 ,0 00 475,000
6,000 198,000
03,000 444,000
30,000 291,000
. 77,000 163,000
28,000 90,000
1,249,000 339,000
75,000 416,000
,652,000 104,000
339,000 22,000
68,000 257,000
7 5,000 346,000
413,000 181,000
290,000 282,000
0 346,000
226,000 333,000
92,000 370,000
57,000 213,000
28,000 162,000
,324,000 249,000
168,000 369,000
,303,000 438,000
785,000 397,000
129,000 79,000
278,000 267,000
5,000 192,000
,011,000 158,000

New Mexico	1,309,000	0	93,000	230,000	1,632,000	566,000	2,198,000	187,000	2,385,000	7.8
New York	4,435,000	861,000	748,000	143,000	6,187,000	1,175,000	7,362,000	11,587,000	18,949,000	61.1
North Carolina	5,289,000	756,000	392,000	484,000	6,921,000	1,867,000	8,788,000	7,043,000	15,831,000	44.5
North Dakota	1,917,000	32,000	218,000	118,000	2,285,000	272,000	2,557,000	402,000	2,959,000	13.6
Ohio	4,649,000	171,000	332,000	304,000	5,456,000	138,000	5,594,000	36,000	5,630,000	0.6
Oklahoma	2,480,000	139,000	276,000	330,000	3,226,000	163,000	3,389,000	334,000	3,723,000	9.0
Oregon	2,255,000	325,000	792,000	47,000	3,419,000	551,000	3,970,000	4,349,000	8,319,000	52.3
Pennsylvania	4,904,000	266,000	714,000	354,000	6,239,000	447,000	6,686,000	2,049,000	8,735,000	23.5
Puerto Ri co	3,518,000	0	568,000	13,000	4,099,000	0	4,099,000	0	4,099,000	00.0
Rhode Island	1,003,000	0	34,000	67,000	1,104,000	0	1,104,000	207,000	1,311,000	15.8
South Carolina	2,790,000	0	583,000	22,000	3,394,000	0	3,394,000	34,000	3,428,000	1.0
South Dakota	1,956,000	0	0	181,000	2,137,000	0	2,137,000	0	2,137,000	00.0
Tennessee	3,845,000	51,000	226,000	334,000	4,456,000	83,000	4,539,000	301,000	4,840,000	6.2
Texas	5,138,000	281,000	480,000	532,000	6,431,000	2,176,000	8,607,000	4,987,000	13,594,000	36.7
Utah	1,424,000	164,000	146,000	185,000	1,919,000	452,000	2,371,000	1,745,000	4,116,000	42.4
Vermont	1,178,000	17,000	148,000	16,000	1,359,000	56,000	1,415,000	186,000	1,601,000	11.6
Virginia	3,387,000	2,000	119,000	432,000	3,940,000	1,168,000	5,108,000	3,368,000	8,476,000	39.7
Washington	2,909,000	55,000	327,000	329,000	3,620,000	713,000	4,333,000	2,789,000	7,122,000	39.2
West Virginia	2,171,000	0	46,000	272,000	2,489,000	163,000	2,652,000	65,000	2,717,000	2.4
Wisconsin	4,064,000	1,034,000	871,000	489,000	6,457,000	720,000	7,177,000	11,736,000	18,913,000	62.1
Wyoming	1,262,000	0	0	148,000	1,409,000	0	1,409,000	502,000	1,911,000	26.3
	139,485,000	11,873,000	19,502,000	13,361,000	184,212,000	30,829,000	215,041,000	110,799,000	325,840,000	34.0

^aHatch includes Hatch Funds and Regional Funds administered byCSRS.

^bCOMP are Competitive Research Grants administered by the Competitive Research Grants Office of CSRS.

^cSPGT are Special Grants administeredby CSRS.

'Other CSRS includes McIntire-Stennis Funds (Forestry), Evans-Allen Funds (1890 Colleges and Tuskegee institutes),

and Animal Health Funds, (Veterinary Science) and any Other CSRS administered funds not included in HATCH, COMP, and SPGT.

^eTotal CSRS is the sum of HATCH, COMP,SPGT,andotherCSRS.

^fCGCA are grants, contracts and cooperative agreements administered byUSDA agencies other than CSRS.

 ${}^g\!Total$ USDA is the sum of total CSRS and CGCA.

'Other federal aregrants, contracts, and cooperative agreements administered by federal agencies otherthan USDA.

'Total federal is the sum of total USDA and other federal.

^JPercent of total from other federal is other federal divided by total federal multiplied by 100.

SOURCE: Compiled from Inventory of Agricultural Research, FY86, USDA/CSRS.

State	4ATCH ^a	COMP ^b	SPGT ^c	Other CSRS ^d	Total CSRS ^e	cocaf	Total UJSDA ^g	Other Federal ^h	Total Federal ⁱ	rercent of total from other Federal
АСарата	3,366,014	183,000	0, 381	3,331,309	6,981,704	982,000	7.963.704	897,000	8 RKU 704	1 1
Alaska	836,050	0	5,000	329,110	1,170,160	0	1,170,160	0	1,170,160	0.00
Arizona	1,637,354	875,000	373, 145	314,729	3,200,228	,048,000	4,248,228	1,404,000	5.652.228	24.8
Arkansas	2,902,616	210,000	486,860	1,744,767	5,344,243	678,000	6,022,243	۲ 58, ∞و	6,480,243	7.1
Cali ornia	4,294,758	6,351,327	2,716,305	962,867	14,325,257	1,613,000	15,938,257	23,696,。	\$9,634,257	59.8
Colorado	2,259,405	605,000	243,61	545,027	3,653,043	1,807,000	5,460,043	15,253,00	20,713,043	73.6
Connect cut	1,543,601	237,000	185,338	211,575	2,177,514	7,000	2,184,514	656,000	2,840,514	23.1
Delaware	1,089,885	0	O	574,783	1,664,668	1,000	1,665,668	114,000	1, 779, 668	6.4
Dist. of Columba	476,964	110,709	0	0	587,673	0	587,673	0	587,673	00.00
Florida	2,447,831	945,988	,549,477	1,518,453	6,461,749	2,725,000	9 ,186,749	4,438,°°°	3,624,749	32.6
Georg a	3,954,450	1, 535, 775	1,453,202	2,177,963	9,121,390	834,000	9,955,390	1,642,∞ຶ	11,597,390	14.2
Hawaii	1,099,005	30,000	2,559,929	140,837	3,829,771	486,000	4,315,771	2 , 239 ,	6,554,771	34.2
I daho	1,770,136	191,800	435,927	461,835	2,859,698	155,000	3,014,698	561,00	3,575,698	15.7
Illinois	4,584,251	2,059,207	2,749,860	406,121	9, 799,439	2.074,000	11,873,439	2,093,000	13,966,439	15.0
Indiana	4,122,088	1,241,014	598,33	400,690	6,362,123	429,000	6, 791, 123	5,928,000	12,719, 23	46.6
lowa	4,850,957	57, 550	781,346	451,842	6,655,695	2 387,000	9,042,695	1,561,000	10,603,695	14.7
Kansas	2,842,448	947,000	3,183,009	316,593	7,289,050	342,000	7,631,050	3, 537, 000	11,268,050	32.3
Kentucky	4,166,166	444,760	513,830	2,106,843	7,231,599	0	7,231,599	0	7,231,599	0.00
Louisiana	2,696,202	305,000	645,357	1,641,717	5,288,276	303,000	5,591,276	374,0000	5,965,276	6.3
Maine	1,536,176	74,130	158,916	542,482	2,311,704	252,000	2,563,704	544,000	3,107,704	17.5
Maryland	2,069,022	1,311,222	288,108	1,028,897	4,697,249	13,000	4,710,249	87,000	4,797,249	1.8
Massachusetts	1,866,247	1,861,368	934,133	262,554	4,924,302	134,000	5,058 ,302	382,0 0 0	5,440,302	7.0
Michigan	4,192,640	2,491,946	2,440,946	600,915	9,726,447	2,123,000	1,849,447	5,003, 00 0	16,852,447	29.7
Minnesota	4,215,434	1,275,583	578,464	577,554	6,647,035	1,337,000	7,984,035	2,436,000	10,420,035	23.4
Mississippi	3,473,920	106,243	6,530,817	1,972,200	2,083,180	642,000	12,725,180	995, 0 6 0	13,720,180	7.3
Missouri	3,909,750	978,900	833, 134	2,041,592	7,763,376	523,000	8,286,376	1,948,000	10,234,376	19.0
Montana	1,753,480	100,000	189,962	422,224	2,465,666	739,000	3, 204, 666	2,286,000	5,490,666	41.6
Nebraska	2,783,752	294,300	1,519,989	301,524	4,899,565	2,412,000	7,311,565	1,442,000	8,753,565	16.5
Nevada	1,020,725	100,000	5,000	77,066	1,202,791	11,000	,213,791	441,000	1,654,791	26.6

				27/ 972	1,618,521	0	1,618,521	0	1,618,521	00.0
New Hampshire	1,200,439	120,000	23,210	274,872	3,657,888	115,000	3,772,888	711,000	4,483,888	15.9
New Jersey	2,293,132	556,300	587,429	221,027	• •	740,000	3,031,694	271,000	3,302,694	8.2
New Mexico	1,362,826	200,000	455,589	273,279	2,291,694	•	11,247,822	16,903,000	28,150,822	60.0
New York	4,608,443	3,093,150	995,083	736,146	9,432,822	1,815,000	13,364,177	6,220,000	19,584,177	31.8
North Carolina	5,505,386	1,863,736	423,597	2,765,458	10,558,177	2,806,000	5,694,597	561,000	6,255,597	9.0
North Dakota	2,006,894	100,000	2,976,733	145,970	5,229,597	465,000		1,934,000	8,834,301	21.9
Ohio	4,887,374	594,200	832,344	443,383	6,757,301	143,000	6,900,301	, ,	6,788,711	12.9
Oklahoma	2,591,197	776,261	895,693	1,447,560	5,710,711	204,000	5,914,711	874,000 5,642,000	13,657,372	41.3
Oregon	²,369,988	973,525	1,681,830	698,029	5,723,372	2,292,000	8,015,372	• •	14,170,706	35.2
Pennsylvania	5, 26,469	1,177,225	1,079,531	573,481	7,956,706	1,225,000	9,181,706	4,989,000	4,025,138	00.0
Puerto Rico	3,608,987	0	403,643	12,508	4,025,138	0	4,025,138	0	1,669,850	15.7
Rhode Island	,040,549	262,450	15,000	88,851	1,406,850	0	1,406,850	263,000	•	2.1
South Carol na	2,893,497	108,602	577,153	1,624,812	5,204,064	155,000	5,359,064	113,000	5,472,064	1.4
South Dakota	2,050,865	97,700	50,811	202,441	2,401,817	146,000	2,547,817	36,000	2,583,817	3.7
Tennessee	4,050,782	1,017,000	236,940	2,039,361	7,344,083	50,000	7,394,083	286,000	7,680,083	
exas	5,323,273	1,721,000	1,143,633	2,870,002	11,057,908	2,563,000	13,620,908	7,557,000	21,177,908	35.7
Utah	1,488,012	140,000	96,984	223,699	1,948,695	588,000	2,536,695	2,232,000	4,768,695	46.8
		140,000	0	292,003	1,522,706	373,000	1,895,706	346,000	2,241,706	15.4
Vermont	1,230,703		1,302,872	1,950,777	7,903,518	1,272,000	9,175,518	4,039,000	13,214,518	30.6
Virginia	3,531,368	1,118,501	2,515,298	732,939	7,301,871	1,814,000	9,115,871	4,507,000	13,622,871	33.1
Washington	2,983,371	1,070,263	• •	376,053	2,717,185	129,000	2,846,185	133,000	2,979,185	4.5
West Virginia	2,258,004	0	83,128	-	7,534,137	751,000	8,285,137	13,384,000	21,669,137	61.8
Wisconsin	720	2,486,231	224,981	613,205	• •	0	1,607,458	625,000	2,232,458	28.0
Wyoming	1,305,636	98,690	5,000	198,132	1,607,458	0	<u> </u>			72 /
	145,688,242	43,012,656	48,667,859	44,268,057	28',636,814	41,703,000	323,339,814	152,141,000	475,480,814	32.4

^aHATCH includes Hatch Act Funds administered by CSRS.

^bCOMP are Competitive Research Grants administered by the Competitive Research Grants Office of CSRS.

^cSPGT are Special Grants administered by CSRS.

^dOther CSRS includes McIntire-Stennis Funds (Forestry), Evans-Allen Funds (1890 Colleges and Tuskegee Institutes),

Animal Health Funds (Veterinary Science), and any other CSRS administered funds not included in HATCH, COMP, and SPGT.

^eTotal CSRS is the sum of HATCH, COMP, SPGT, and OTHER CSRS.

^fCGCA are grants, contracts and cooperative agreements administered by USDA agencies other than CSRS.

^gTotal USDA is the sum of total CSRS and CGCA.

^hOther federal are gra contracts and oope agreements administered by federal other than USDA.

ⁱTotal federal is the sum of total USDA and other federal.

^JPercent of total from other federal is other federal divided by total federal multiplied by 100.

SOURCE: Compiled from Inventory of Agricultural Research, FY88, USDA/CSRS.

State	1986	1988
California Colorado Indiana Michigan New York North Carolina Texas Utah Washington Wisconsin	3,339,550 519,316 1,466,903 1,580,824 2,931,892 774,460 1,534,105 268,955 466,789 <u>3.232.370</u>	$\begin{array}{r} 3,965,419\\ 1,387,628\\ 3,129,294\\ 993,944\\ 2,337,641\\ 1,338,578\\ 1,466,137\\ 1,288,030\\ 1,090,447\\ \underline{3.240,762}\end{array}$
Total for 10 SAES	16,115,164	20,237,880
Total SAES ^a	20,954,078	27,563,761
Proportion of 10 SAES To total (Percentage)	77	73

Table B-3—Top 10 State Agricultural Experiment Stations with Biotechnology Funds from Federal Sources Other than the U.S. Department of Agriculture for FY 1986 and FY 1988 (in dollars)

^aData was unavailable for the SAES from AL, AK CN, DE, DC, ID, NV, NM, ND, VT, and WY.

SOURCE: Compiled from *Emerging Biotechnologies in Agriculture: Issues and Policies, Progress Report VIII, Nov. 1989,* NASULGC.