Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

A31.3
R31Ae
Cop. 2

U.S. DEPT. OF AGRICULTURE
NATL. AGRIC. LIBRARY
RECEIVED

AUG 4 '75

PROCUREMENT SECTION
CURRENT SERIAL RECORDS

FUNDS FOR RESEARCH

AT STATE AGRICULTURAL EXPERIMENT STATIONS AND OTHER STATE INSTITUTIONS

1973

Cooperative State Research Service

UNITED STATES DEPARTMENT OF AGRICULTURE

CSRS 15-9

JANUARY 1974

FUNDS FOR RESEARCH AT STATE AGRICULTURAL EXPERIMENT STATIONS
AND OTHER INSTITUTIONS

Two Federal laws, the Act of May 15, 1862, establishing the United States Department of Agriculture, followed a few months later by passage of the Land-Grant Act of July 2, 1862, provide the basic framework for State-Federal cooperation in agricultural research. The Hatch Act of 1887, authorizing each State to set up an agricultural experiment station at the land-grant institutions, established under the Land-Grant Act, strengthened the structural base. It made possible the longtime partnership between State and Federal governments in advancing the Nation's farm technology. The system thus established, tried and improved gradually through over 85 years of continuous operation, now is considered a foremost model for patterning Federal support of research extending way beyond agriculture.

Since 1888 Congress has appropriated money annually for use by the State agricultural experiment stations on a formula basis. The major source of experiment station support, however, comes from appropriations made by the State Legislatures. The regulations and rules for administering the Hatch funds, developed over the years by the Cooperative State Research Service, and its predecessor agencies, have firmly established a policy of providing administrative guidance and scientific consultation and leadership, but not control of the station program. The administrative head of each station, known as the Director, is appointed by the State. Genuine cooperation between the State stations and the Department of Agriculture has encouraged development of a geographically dispersed network of agricultural science centers. Each State has at least one such center; many of them have a number of branch locations. They may direct their resources to whatever problem arises to plague agriculture and rural life, whether local, state-wide, regional, or national in scope.

Federal-grant funds authorized under the Hatch Act is the major source of Federal support of the State agricultural experiment stations in the 50 States and Puerto Rico. The Hatch Act, and the Cooperative Forestry Research (McIntire-Stennis) Act, were amended by Public Law 92-318, June 23, 1972, to provide funds for agricultural and forestry research for Guam and the Virgin Islands. This Act, known as "The Education Amendments of 1972", also established land-grant status for the University of Guam and the College of the Virgin Islands.

In addition to the Hatch Act, the Cooperative State Research Service is currently responsible for the administration of the Acts and Authorizations outlined in the next three paragraphs.

Cooperative Forestry Research (McIntire-Stennis) Act of October 10, 1962 (P.L. 87-788). Under this Act ten institutions at other than land-grant locations are currently certified as eligible for support by States. At several of the land-grant locations, the university, college, or other institutional unit was certified as eligible in lieu of the State Agricultural experiment station. Funds were first certified to the eligible institutions under this Act in fiscal year 1964.

Research Facilities Act of July 22, 1963 (P.L. 88-74). Funds were first made available to the State agricultural experiment stations under this Act in fiscal year 1965, and were earmarked for pesticides facilities. Funds appropriated in subsequent years do not carry this restriction. No funds were appropriated for this program in fiscal years 1969, 1971, 1972, and 1973.

Grants for Scientific Research, Act of August 4, 1965 (P.L. 89-106). This Act authorized the Secretary of Agriculture to make grants, for periods not to exceed five years' duration, to State agricultural experiment stations, colleges, universities, and other research institutions and organizations and to Federal and private organizations and individuals for research to further the programs of the Department of Agriculture. Grants executed by the Cooperative State Research Service under this Act in fiscal year 1973 are listed on Pages 22 through 27. \$15.4 million were appropriated to the Cooperative State Research Service under this Act in fiscal year 1973. Of this amount \$10.883 million were earmarked for the land-grant colleges of 1890 and Tuskegee Institute.

In addition to the funds administered by the Cooperative State Research Service, Congress appropriated approximately \$296 million in 1973 to other research agencies of the Department of Agriculture. A substantial portion of these funds is spent in the States on direct Federal research, but the State agricultural experiment stations and other participating institutions derive considerable support from these other Departmental agencies which work cooperatively with them. The State agricultural experiment stations and other participating institutions derive additional support from grants and contracts from agencies other than the Department of Agriculture, and reported \$27 million from non-governmental sources such as foundations and industry.

Reports on the work and results of agricultural research in a given State are available by writing to the Director of the State agricultural experiment station, the Administrative-Technical Representative of institutions eligible under the McIntire-Stennis program, the Research Coordinator of the 1890 land-grant colleges, and Tuskegee Institute. Locations of the institutions are listed in various Tables and on Pages 31 and 32.

R. L. LOVVORN
Administrator
The Cooperative State Research Service

CONTENTS	PAGE
TABLE 1.--Organization and personnel of the experiment stations	4
TABLE 2.--Publications issued by the experiment stations	5
TABLE 3.--Federal funds available to the experiment stations and other eligible institutions (disbursed and undisbursed to States)	6
TABLE 4.--Non-Federal funds available to experiment stations and other eligible institutions	7
TABLE 5.--Obligations incurred by the experiment stations under the Hatch Act, as Amended, August 11, 1955	8
TABLE 6.--Obligations incurred by experiment stations under the Regional Research Fund	9
TABLE 7.--Obligations incurred by eligible institutions under the Cooperative Forestry Research (McIntire-Stennis) Act	10
TABLE 8.--Expenditures and funds available to the experiment stations under grants for Research Facilities	11
TABLE 9.--Status of Cash, Specific Grants for Research - Public Law 89-106(Summary by States)	12
TABLE 9A.--Status of Cash, Specific Grants for Research - Public Law 89-106 (By Grants)	13
Specific Grants for Research executed during the fiscal year	22
TABLE 10.--Non-Federal obligations incurred by State agricultural experiment stations and other State institutions	28
✓ TABLE 11.--Summary of expenditures incurred by experiment stations and other institutions ...	29
TABLE 12.--Classification of expenditures incurred by the experiment stations and other institutions	30
TABLE 13.--Expenditures incurred by State agricultural experiment stations, Hatch Act, as Amended, August 11, 1955, and non-Federal funds (Percentage Ratios)	30
Geographic location of recipients of funds administered by the Cooperative State Research Service	31

TABLE 1.--Organization and professional research personnel of the experiment stations - fiscal year 1973

Station	Date of legislative assent to Hatch Act	Date of organization under Hatch Act	Personnel					
			Full-time research	Research and teaching	Research and extension	Research, teaching and extension	Workers engaged full or part time in research	Research personnel full-time equivalent
			Number	Number	Number	Number	Number	Number
ALABAMA	Feb. 27, 1889	Apr. 1, 1888	79	136			215	167
ALASKA	May, 2, 1929	May 1, 1931	11	4			15	15
ARIZONA	Mar. 19, 1889	July 1, 1889	38	133	11	2	184	131
ARKANSAS	Mar. 7, 1889	Apr. 2, 1888	139	82	6	1	228	206
CALIFORNIA	Mar. 12, 1889	Mar. 13, 1888	105	659			764	525
COLORADO	Mar. 25, 1889	Feb. 20, 1888	26	185	6	9	226	94
CONNECTICUT:								
State	May 18, 1887	May 18, 1887	41				41	41
Storrs	May 18, 1887	Apr. 1, 1888	45	40	2	21	108	83
DELAWARE	Apr. 14, 1887	Feb. 21, 1888	16	38	3	4	61	44
FLORIDA	June 7, 1887	Mar. 16, 1888	291	78	14	16	399	345
GEORGIA	Dec. 24, 1888	Feb. 18, 1888	128	117	3	10	258	196
HAWAII	Mar. 31, 1911	July 1, 1929	89	78	14	34	215	141
IDAHO	Jan. 23, 1891	Feb. 26, 1892	40	61	5	5	111	84
ILLINOIS	May 11, 1887	Mar. 21, 1888	85	165	23	28	301	194
INDIANA	Jan. 19, 1889	July 1, 1887	51	163	40	48	302	184
IOWA	Mar. 1, 1888	Feb. 17, 1888	108	151	10	14	283	180
KANSAS	Mar. 3, 1887	Feb. 8, 1888	54	222	10	14	300	173
KENTUCKY	Feb. 20, 1888	Apr. 29, 1888	80	65	5	9	159	134
LOUISIANA	July 12, 1888	Apr. 5, 1887	122	133	5	2	262	216
MAINE	Mar. 16, 1887	Feb. 16, 1888	24	73	9	14	120	69
MARYLAND	Mar. 6, 1888	Mar. 9, 1888	20	68	15	22	125	75
MASSACHUSETTS	Apr. 20, 1887	Mar. 2, 1888	11	66	10	5	92	52
MICHIGAN	Apr. 12, 1889	Feb. 26, 1888	33	223	31	30	317	156
MINNESOTA	Feb. 4, 1889	Jan. 26, 1888	44	231	8	28	311	128
MISSISSIPPI	Jan. 31, 1888	Mar. 21, 1888	103	141	1	1	246	173
MISSOURI	June 11, 1889	Jan. 31, 1888	30	158	24	27	239	127
MONTANA	Feb. 16, 1893	July 1, 1893	23	101	2	5	131	83
NEBRASKA	Mar. 31, 1887	June 14, 1887	46	132	82	31	291	132
NEVADA	Feb. 8, 1889	Dec. 1887	9	35	11	8	63	38
NEW HAMPSHIRE	Aug. 4, 1887	Feb. 22, 1888	2	46	2	6	56	25
NEW JERSEY	Mar. 16, 1887	Mar. 5, 1888	21	145	4	2	172	116
NEW MEXICO	Feb. 28, 1889	Nov. 14, 1889	21	66	3	4	94	65
NEW YORK:								
Cornell	Mar. 30, 1887	Apr. 30, 1888	134	154	62	140	490	296
State	(1)		79				79	79
NORTH CAROLINA	Mar. 7, 1887	Dec. 5, 1889	269	199	28	19	515	388
NORTH DAKOTA	Mar. 8, 1890	Oct. 15, 1890	37	115	5		157	112
OHIO	Mar. 16, 1887	Apr. 2, 1888	106	120	47	38	311	141
OKLAHOMA	Oct. 27, 1890	Aug. 14, 1891	18	130	4	12	164	100
OREGON	Feb. 25, 1889	July 2, 1888	109	176	6	14	305	230
PENNSYLVANIA	June 3, 1887	June 30, 1887	26	192	8	21	247	149
PUERTO RICO	Aug. 16, 1933	Nov. 14, 1935	137	14			151	140
RHODE ISLAND	Mar. 31, 1887	Nov. 3, 1888	3	39	2	18	62	36
SOUTH CAROLINA	Dec. 22, 1887	Jan. 1888	43	77	26	12	158	107
SOUTH DAKOTA	Mar. 11, 1887	Nov. 17, 1887	29	93	6	7	135	88
TENNESSEE	Mar. 29, 1887	July 24, 1887	81	105	8	6	200	152
TEXAS	Apr. 2, 1887	Jan. 25, 1888	262	223	10	16	511	340
UTAH	Mar. 8, 1888	Nov. 6, 1889	36	92	5	11	144	81
VERMONT	Nov. 1888	Feb. 28, 1888	6	44	4	6	60	32
VIRGINIA	Feb. 29, 1888	June 13, 1888	66	124	24	19	233	161
WASHINGTON	Mar. 9, 1891	May 1, 1891	57	106	16	9	188	121
WEST VIRGINIA	Feb. 22, 1889	June 11, 1888	12	76			88	79
WISCONSIN	(2)	July 1, 1887	18	208	40	59	325	181
WYOMING	Jan. 10, 1891	Mar. 27, 1891	7	72	16	14	109	50
GUAM	(3)		1			4	5	1
VIRGIN ISLANDS	(3)				1	12	13	1
TOTALS			3,471	6,354	677	837	11,339	7,457

(1) First made eligible to receive part of the State allotment of Federal funds by legislative act, approved May 12, 1894. (2) Session of 1887. (3) Section 506 P. L. 92-318, June 23, 1972 (Education Amendments of 1972)

TABLE 2.--Publications issued by the experiment stations during the fiscal year ended June 30, 1973

Station	: Reports, Bulletins, : and Circulars			: Journal : Articles		: Periodicals			: Pamphlets, Leaflets, : Miscellaneous		
	: New Publications :			: Number :		: Issues :			: New Publications :		
	: Copies :			: Printed :		: Copies :			: Printed :		
	: Popular:Technical:			: Popular:Technical:		: Popular:Technical:			: Popular:Technical:		
	:	:	:	:	:	:	:	:	:	:	:
ALABAMA		26	113,000	23	241	52		66,400	29	20	48,000
ALASKA		2	10,800		4	6		36,000	5		24,130
ARIZONA	13	20	125,500		242	6		60,000	51		149,000
ARKANSAS		14	36,300		112		6	33,700		13	14,700
CALIFORNIA	13	20	191,950	819	198	12		332,000	9	3	101,500
COLORADO	14	2	27,300		121	4		14,000	61		46,750
CONNECTICUT:											
State		6	18,860		119	26		18,118	3		18,000
Storrs		6	9,700	10	34	2		13,000			
DELAWARE		9	11,800	2	34					10	4,025
FLORIDA	9	3	72,000		301		4	10,500			
GEORGIA		60	148,206		675	4		10,000		3	5,250
HAWAII	15	7	49,620		103	2		7,500	3		12,000
IDAHO	18	11	93,400		59				7	3	1,850
ILLINOIS		20	42,500		501		6	60,000			
INDIANA		26	113,000		344	4		60,000			
IOWA	11	6	100,530	82	335		6	19,500	7	8	100,580
KANSAS	33	4	246,650	77	399	113	11	3,068,890	58	11	417,215
KENTUCKY	5	10	74,900		175	2		11,000	6	12	24,000
LOUISIANA	14	19	73,525	68	237	4		23,000	31	32	35,370
MAINE	9	7	30,500	5	114	2	22	66,525		9	12,660
MARYLAND	3		4,500		76					33	33,150
MASSACHUSETTS		6	15,100		73						
MICHIGAN	33	11	407,677	15	403				246		194,420
MINNESOTA	3	11	69,000	52	354	3		63,000	3	2	32,600
MISSISSIPPI	4	4	20,500		215	12		504,000	24		11,500
MISSOURI		21	50,350		333	12		1,560,000	52		1,915
MONTANA		22	35,835		78	4		26,000		1	200
NEBRASKA	50	4	140,200		397	16		53,680	25		33,550
NEVADA	12	1	13,152		34	2		4,600	1		2,000
NEW HAMPSHIRE		10	8,000		47						
NEW JERSEY	2	2	15,000		89	8	12	97,000	164		1,083,780
NEW MEXICO	3	40	62,930		23				1		5,000
NEW YORK											
Cornell		18	60,300	206	697	7		62,000	230	288	467,606
State		21	72,800		71	17		10,415	16	5	108,150
NORTH CAROLINA	6	29	49,822		281	1	11	17,500	1		2,000
NORTH DAKOTA	17	36	157,000		132		6	84,000	7		14,000
OHIO	9	6	68,000		141	6		133,400	83	120	165,716
OKLAHOMA	13	24	52,500	19	225	5	3	29,800	8	5	17,380
OREGON	7	19	39,800		583	8	6	44,106	6		4,225
PENNSYLVANIA		9	25,500		208		4	56,000		11	7,350
PUERTO RICO		6	10,500		57		4	10,000			
RHODE ISLAND		4	4,000		32	4		30,190			
SOUTH CAROLINA	12	6	48,500		45	4		3,200	9		10,900
SOUTH DAKOTA	21	1	52,200		101	4		26,050	24		36,450
TENNESSEE	4	37	112,470	27	249	47	17	81,150	9	24	214,825
TEXAS		175	752,200		635	16		54,300	22	26	119,235
UTAH	12		8,900	131		4		26,000	4		1,600
VERMONT	3	9	24,651		33	3		24,000	2		3,065
VIRGINIA	4	51	77,375	70	249	49	17	525,750	16	110	190,375
WASHINGTON		36	62,800		136	4		14,400	1		500
WEST VIRGINIA	11	6	40,000	53	41	3		19,500	15		14,000
WISCONSIN	2	24	49,700		935	1		800	4		12,500
WYOMING	15	17	74,150		154				1		1,500
TOTALS	400	944	4,275,453	1,659	11,475	479	136	7,470,974	1,244	749	3,804,522

TABLE 3.--Federal funds available to experiment stations and other eligible institutions
(disbursed and undisbursed to States) - fiscal year 1973

STATE	Hatch Act, as Amended	Cooperative Forestry Research (M-S Act)	Grants for Research Facilities	Specific Grants for Research	Total Federal funds available
	Formula Funds	Regional Research			
ALABAMA	\$ 1,399,506.00	\$ 297,114.00	\$ 158,084.00	\$ 2,819,796.98	\$ 4,699,357.98
ALASKA	369,354.00	47,135.00	92,950.38	7,432.00	516,871.38
ARIZONA	494,777.00	289,506.00	87,707.30	9,690.00	1,367,444.42
ARKANSAS	1,160,076.00	251,630.00	145,952.00	1,485,112.82	3,042,770.82
CALIFORNIA	1,421,635.00	524,741.00	165,461.92	27,278.00	2,902,608.78
COLORADO	630,734.00	394,533.00	112,424.00	.....	1,137,691.00
CONNECTICUT	537,971.00	193,633.00	66,983.53	5,210.00	803,797.53
DELAWARE	396,096.00	152,074.00	34,117.33	7,929.00	1,093,265.67
FLORIDA	850,409.00	170,978.00	147,806.77	8,111.12	2,373,762.24
GEORGIA	1,486,733.00	380,280.00	184,547.71	21,458.00	3,650,795.49
HAWAII	419,860.00	154,259.00	45,802.69	.....	685,921.69
IDaho	577,617.00	235,788.00	120,964.97	.....	979,369.97
ILLINOIS	1,582,807.00	354,488.00	107,998.80	31,829.58	2,489,929.94
INDIANA	1,410,731.00	329,117.00	96,678.10	2,463.00	2,219,833.69
IOWA	1,446,544.00	489,427.00	86,286.35	.....	2,559,336.17
KANSAS	969,446.00	283,287.00	49,277.98	45,479.00	1,426,544.53
KENTUCKY	1,564,058.00	313,482.00	121,600.78	.....	3,302,099.51
LOUISIANA	1,050,602.00	223,187.00	156,211.38	17,609.00	2,862,929.71
MAINE	551,933.00	207,515.00	139,887.00	.....	899,335.00
MARYLAND	721,853.00	245,029.00	130,250.84	6,868.00	1,934,484.79
MASSACHUSETTS	646,777.00	246,902.00	66,020.71	7,717.30	967,417.01
MICHIGAN	1,496,516.00	281,554.00	140,697.99	3,915.00	2,202,682.99
MINNESOTA	1,379,036.00	306,902.00	124,721.00	28,079.00	1,999,008.90
MISSISSIPPI	1,474,536.00	304,241.00	160,232.20	.....	4,018,418.42
MISSOURI	1,433,463.00	296,335.00	115,622.00	27,899.00	3,514,659.86
MONTANA	550,515.00	276,097.00	112,802.67	11,035.00	1,016,570.67
NEBRASKA	876,120.00	307,862.00	39,797.00	17,656.00	1,499,884.00
NEVADA	363,774.00	149,555.00	33,731.00	.....	547,060.00
NEW HAMPSHIRE	437,962.00	153,540.00	118,341.98	.....	773,071.98
NEW JERSEY	627,182.00	370,237.00	60,824.99	828.12	1,127,497.42
NEW MEXICO	515,577.00	157,928.00	58,330.84	9,855.00	1,021,059.08
NEW YORK	1,497,037.00	552,609.00	193,594.35	23,791.92	2,972,516.26
NORTH CAROLINA	2,161,117.00	416,683.00	181,983.24	.....	4,978,595.10
NORTH DAKOTA	682,729.00	237,358.00	21,599.00	.....	941,686.00
OHIO	1,764,059.00	308,363.00	94,391.00	34,263.00	2,636,827.20
OKLAHOMA	995,291.00	214,409.00	82,260.00	17,803.00	2,538,884.62
OREGON	718,335.00	390,107.00	187,300.94	13,802.00	1,474,659.01
PENNSYLVANIA	1,845,468.00	419,488.00	135,187.21	34,255.00	2,575,012.85
PUERTO RICO	1,558,843.00	291,249.00	.....	16,429.33	1,866,521.33
RHODE ISLAND	374,028.00	162,952.00	27,665.00	.....	564,645.00
SOUTH CAROLINA	1,211,040.00	247,121.00	156,056.98	54,603.00	3,080,573.62
SOUTH DAKOTA	683,436.00	241,368.00	36,936.53	15,000.00	976,740.53
TENNESSEE	1,593,330.00	313,427.00	112,590.00	11,380.00	3,560,601.24
TEXAS	2,042,007.00	417,318.00	124,405.25	.....	4,986,701.02
UTAH	459,406.00	286,523.00	61,203.92	8,899.00	816,031.92
VERMONT	466,068.00	126,398.00	77,179.40	9,125.00	678,770.40
VIRGINIA	1,387,439.00	277,891.00	136,854.00	26,452.00	3,303,045.02
WASHINGTON	819,084.00	474,071.00	232,547.62	.....	1,653,486.52
WEST VIRGINIA	938,374.00	193,166.00	113,948.14	79,356.50	1,357,844.64
WISCONSIN	1,394,598.00	345,153.00	152,847.32	28,122.00	2,111,819.14
WYOMING	420,363.00	224,233.00	48,896.00	8,403.00	701,895.00
GUAM	303,009.00	.....	.....	.....	303,009.00
VIRGIN ISLANDS	299,087.00	.....	.....	.....	299,087.00
TOTALS	\$ 52,458,348.00	\$ 14,528,243.00	\$ 5,459,562.11	\$ 704,882.87	\$ 30,863,397.08
					\$ 104,014,433.06

See TABLES 5, 6, 7, 8, and 9, for obligations incurred for approved program projects. Tables 8 and 9 include paid obligations only. Funds available under the Cooperative Forestry Research (McIntire-Stennis) Act include unobligated balances of 1972 appropriation, plus \$4,944,000 appropriated in fiscal year 1973. Funds available for Research Facilities were appropriated in fiscal year 1970 and prior years. Funds available for Specific Grants for Research include unexpended balances June 30, 1972, plus \$15,400,000 appropriated in 1973.

TABLE 4.--Non-Federal funds available to experiment stations and other eligible institutions, fiscal year 1973

STATE	:	:	:	:	:	:
	:	State	Special	Fees, Sales,	Balances	Total funds
	:	appropriations	Endowments,	miscellaneous	from	available
	:	:	Fellowships,	:	previous	:
	:	:	and Grants	:	year	:
	:	:	:	:	:	:
ALABAMA	\$	3,281,150	\$ 262,605	\$ 2,128,307	\$ 1,271,260	\$ 6,943,322
ALASKA		646,336	42,159	193,042	11,022	892,559
ARIZONA		4,308,681	414,279	252,625	538,843	5,514,428
ARKANSAS		3,147,463	437,925	1,670,749	719,062	5,975,199
CALIFORNIA		27,522,833	3,018,498	684,502	3,030,898	34,256,731
COLORADO		2,690,609	.....	382,174	.....	3,072,783
CONNECTICUT		2,465,245	204,288	75,518	.....	2,745,051
DELAWARE		643,359	179,298	189,588	405,545	1,417,790
FLORIDA		13,571,540	901,379	1,335,646	900,775	16,709,340
GEORGIA		7,317,122	414,051	1,453,474	526,930	9,711,577
HAWAII		3,552,445	176,666	60,612	80,929	3,870,652
IDAHO		2,054,065	295,808	428,038	89,662	2,867,573
ILLINOIS		5,720,862	816,154	1,808,470	.....	8,345,486
INDIANA		4,386,175	622,699	2,087,144	1,196,740	8,292,758
IOWA		4,354,287	1,067,350	1,746,679	463,603	7,631,919
KANSAS		4,718,128	1,051,768	1,179,034	427,937	7,376,867
KENTUCKY		4,544,853	50,255	.....	.....	4,595,108
LOUISIANA		7,393,780	417,339	522,106	.....	8,333,225
MAINE		1,314,109	95,472	324,293	72,260	1,806,134
MARYLAND		2,665,862	27,115	226,000	.....	2,918,977
MASSACHUSETTS		1,192,383	.....	.....	.....	1,192,383
MICHIGAN		6,535,316	1,149,556	951,607	.....	8,636,479
MINNESOTA		7,494,593	710,716	1,422,528	.....	9,627,837
MISSISSIPPI		4,088,121	753,104	2,254,591	1,269,489	8,365,305
MISSOURI		4,168,754	315,364	1,396,931	432,753	6,313,802
MONTANA		2,189,110	316,046	1,088,441	631,116	4,224,713
NEBRASKA		4,140,602	392,987	4,416,080	181,124	9,130,793
NEVADA		982,806	62,388	123,659	.....	1,168,853
NEW HAMPSHIRE		387,241	79,586	70,583	138,001	675,411
NEW JERSEY		5,688,226	582,406	.....	.....	6,270,632
NEW MEXICO		1,422,065	50,290	145,423	128,707	1,746,485
NEW YORK		11,691,688	1,982,626	1,345,341	.....	15,019,655
NORTH CAROLINA		9,695,880	325,900	927,445	.....	10,949,225
NORTH DAKOTA		2,705,316	206,250	860,167	1,050,663	4,822,396
OHIO		6,800,000	1,173,566	.....	1,092,609	9,066,175
OKLAHOMA		3,178,667	196,895	1,169,936	745,760	5,291,258
OREGON		5,273,399	612,381	1,747,369	.....	7,633,149
PENNSYLVANIA		4,030,251	852,264	405,474	637,303	5,925,292
PUERTO RICO		4,446,894	4,025	489,211	-213,936	4,726,194
RHODE ISLAND		568,969	29,009	82,238	161,518	841,734
SOUTH CAROLINA		3,477,011	329,592	706,049	188,038	4,700,690
SOUTH DAKOTA		2,471,579	180,398	523,268	.....	3,175,245
TENNESSEE		2,389,000	259,943	1,620,847	412,989	4,682,779
TEXAS		8,430,033	1,568,299	2,809,582	3,767,730	16,575,644
UTAH		1,290,179	306,229	387,316	140,351	2,124,075
VERMONT		731,515	69,001	1,481	32,608	834,605
VIRGINIA		4,126,624	917,530	306,348	262,279	5,612,781
WASHINGTON		5,167,151	1,120,034	775,550	.....	7,062,735
WEST VIRGINIA		1,068,550	87,415	268,091	269,348	1,693,404
WISCONSIN		7,513,246	1,839,332	889,092	214,000	10,455,670
WYOMING		846,669	158,801	1,183,469	70,363	2,259,302
GUAM		.....	.....	56,651	.....	56,651
TOTALS	\$	230,490,742	\$ 27,127,041	\$ 45,172,769	\$21,348,279	\$ 324,138,831

Special Endowments, Fellowships and Grants include the following: Foundations \$7,773,313; Private Corporations \$14,591,251; Farm and Trade Associations \$4,762,477.

Balances from previous year do not include \$4,608,190, unpaid obligations June 30, 1972.

TABLE 5.--Obligations incurred by experiment stations under the Hatch Act, as Amended, fiscal year ended June 30, 1973

STATE	Paid obligations	Unpaid Obligations		Total obligations	Unobligated balances
		June 30 1973	June 30 1972		
ALABAMA	\$ 1,399,506.00	\$	\$	\$ 1,399,506.00	\$
ALASKA	364,437.04	20,049.68	15,132.72	369,354.00	.....
ARIZONA	471,995.38	39,874.08	12,092.46	494,777.00	.....
ARKANSAS	1,157,189.19	13,457.38	10,570.57	1,160,076.00	.....
CALIFORNIA	1,421,635.00	.....	.....	1,421,635.00	.....
COLORADO	630,734.00	.....	.....	630,734.00	.....
CONNECTICUT					
New Haven	251,305.48	14,072.83	360.50	265,017.81	3,967.19
Storrs	276,261.45	7,459.69	15,113.33	268,607.81	378.19
DELAWARE	405,300.60	.....	9,204.60	396,096.00	.....
FLORIDA	835,864.49	36,593.48	22,048.97	850,409.00	.....
GEORGIA	1,491,610.40	16,694.35	21,571.75	1,486,733.00	.....
HAWAII	432,895.98	24,880.17	37,916.15	419,860.00	.....
IDAHO	502,502.70	75,281.40	167.10	577,617.00	.....
ILLINOIS	1,570,553.47	146,364.10	135,287.54	1,581,630.03	1,176.97
INDIANA	1,416,045.08	94,648.14	99,962.22	1,410,731.00	.....
IOWA	1,446,544.00	.....	.....	1,446,544.00	.....
KANSAS	968,997.11	2,164.08	2,931.31	968,229.88	1,216.12
KENTUCKY	1,551,074.93	39,703.32	27,916.28	1,562,861.97	1,196.03
LOUISIANA	1,050,341.50	55,369.99	55,109.49	1,050,602.00	.....
MAINE	551,933.00	.....	.....	551,933.00	.....
MARYLAND	724,907.48	.....	3,054.48	721,853.00	.....
MASSACHUSETTS	680,437.26	68,287.77	101,948.03	646,777.00	.....
MICHIGAN	1,498,378.47	189.90	2,052.37	1,496,516.00	.....
MINNESOTA	1,382,025.16	16,037.92	19,027.08	1,379,036.00	.....
MISSISSIPPI	1,474,536.00	.....	.....	1,474,536.00	.....
MISSOURI	1,433,463.00	.....	.....	1,433,463.00	.....
MONTANA	541,750.21	8,764.79	.....	550,515.00	.....
NEBRASKA	876,120.00	.....	.....	876,120.00	.....
NEVADA	353,625.92	38,590.83	28,442.75	363,774.00	.....
NEW HAMPSHIRE	451,980.11	.....	14,036.60	437,943.51	18.49
NEW JERSEY	627,182.00	.....	.....	627,182.00	.....
NEW MEXICO	517,497.56	3,631.82	7,550.37	513,579.01	1,997.99
NEW YORK:					
Geneva	147,048.29	13,329.00	10,673.29	149,704.00	.....
Ithaca	1,353,793.68	132,482.70	138,943.38	1,347,333.00	.....
NORTH CAROLINA	2,161,117.00	.....	.....	2,161,117.00	.....
NORTH DAKOTA	682,729.00	.....	.....	682,729.00	.....
OHIO	1,760,443.49	22,788.82	19,173.31	1,764,059.00	.....
OKLAHOMA	1,032,052.06	811.32	37,572.38	995,291.00	.....
OREGON	718,335.00	.....	.....	718,335.00	.....
PENNSYLVANIA	2,017,109.81	.....	171,641.81	1,845,468.00	.....
PUERTO RICO	1,582,996.72	56,134.30	80,288.02	1,558,843.00	.....
RHODE ISLAND	371,207.78	14,285.66	11,757.60	373,735.84	292.16
SOUTH CAROLINA	1,211,040.00	.....	.....	1,211,040.00	.....
SOUTH DAKOTA	682,969.61	.....	.....	682,969.61	466.39
TENNESSEE	1,593,330.00	.....	.....	1,593,330.00	.....
TEXAS	2,131,333.72	1,814.00	91,140.72	2,042,007.00	.....
UTAH	459,406.00	.....	.....	459,406.00	.....
VERMONT	471,844.33	11,386.81	17,668.09	465,563.05	504.95
VIRGINIA	1,387,439.00	.....	.....	1,387,439.00	.....
WASHINGTON	819,084.00	.....	.....	819,084.00	.....
WEST VIRGINIA	877,564.49	165,627.38	119,153.73	924,038.14	14,335.86
WISCONSIN	1,440,867.29	126,488.70	172,757.99	1,394,598.00	.....
WYOMING	430,100.63	3,344.80	13,082.43	420,363.00	.....
GUAM	13,013.01	4,639.00	.....	17,652.01	285,356.99
VIRGIN ISLANDS	7,024.09	36,433.08	.....	43,457.17	255,629.83
TOTALS	\$ 52,110,478.97	\$ 1,306,681.29	\$ 1,525,349.42	\$ 51,891,810.84	\$ 566,537.16

The above obligations were reported in Column (A) (Part 2), CSRS-2, Financial Report, June 30, 1973. Unobligated balances June 30 are withheld from the subsequent year allotment. \$209,087 of the unobligated balance shown for the Virgin Islands were not advanced in 1973 and were returned to U. S. Treasury June 30, 1973.

TABLE 6.--Obligations incurred by experiment stations under the Regional Research Fund, fiscal year ended June 30, 1973

STATION	Paid obligations	Unpaid Obligations		Total obligations	Unobligated balances
		June 30 1973	June 30 1972		
ALABAMA	\$ 297,114.00	\$	\$	\$ 297,114.00	\$
ALASKA	46,500.32	966.59	438.34	47,028.57	106.43
ARIZONA	274,674.78	25,725.46	10,894.24	289,506.00	.....
ARKANSAS	249,421.70	2,636.09	427.79	251,630.00	.....
CALIFORNIA	520,271.20	4,469.80	.....	524,741.00	.....
COLORADO	394,533.00	.....	.....	394,533.00	.....
CONNECTICUT:					
New Haven	42,118.00	.....	.....	42,118.00	.....
Storrs	154,129.37	7,177.60	9,884.85	151,422.12	.....
DELAWARE	149,508.43	2,565.57	.....	152,074.00	.....
FLORIDA	169,300.32	10,489.18	8,811.50	170,978.00	.....
GEORGIA	375,977.92	7,422.55	3,120.47	380,280.00	.....
HAWAII	160,477.23	6,182.78	12,401.01	154,259.00	.....
IDAHO	233,847.49	1,940.51	.....	235,788.00	.....
ILLINOIS	344,790.95	13,364.93	3,736.52	354,419.36	.....
INDIANA	335,860.19	4,685.29	11,428.48	329,117.00	.....
IOWA	489,427.00	.....	.....	489,427.00	.....
KANSAS	281,151.46	12,261.38	12,029.50	281,383.34	1,903.66
KENTUCKY	299,155.87	15,901.84	1,646.66	313,411.05	70.95
LOUISIANA	222,248.88	4,139.83	3,201.71	223,187.00	.....
MAINE	207,515.00	.....	.....	207,515.00	.....
MARYLAND	278,507.34	6,887.24	40,365.58	245,029.00	.....
MASSACHUSETTS	238,542.40	20,959.52	12,599.92	246,902.00	.....
MICHIGAN	286,435.99	6,853.67	11,735.66	281,554.00	.....
MINNESOTA	303,634.68	4,355.05	1,087.73	306,902.00	.....
MISSISSIPPI	296,335.00	.....	.....	296,335.00	.....
MISSOURI	276,097.00	.....	.....	276,097.00	.....
MONTANA	307,418.32	17,856.70	17,413.02	307,418.32	.....
NEBRASKA	148,607.35	1,331.43	383.78	149,555.00	.....
NEVADA	152,206.57	.....	123.23	152,083.34	1,456.66
NEW HAMPSHIRE	156,131.51	2,707.77	978.85	157,860.43	67.57
NEW JERSEY	370,237.00	.....	.....	370,237.00	.....
NEW YORK:					
Geneva	158,736.36	26,829.10	9,815.46	175,750.00	.....
Ithaca	377,423.33	33,894.61	34,458.94	376,859.00	.....
NORTH CAROLINA	416,683.00	.....	.....	416,683.00	.....
NORTH DAKOTA	237,398.04	164.09	204.13	237,358.00	.....
OHIO	307,830.48	3,629.81	3,097.29	308,363.00	.....
OKLAHOMA	214,409.00	.....	.....	214,409.00	.....
OREGON	390,107.00	.....	.....	390,107.00	.....
PENNSYLVANIA	419,488.00	.....	.....	419,488.00	.....
PUERTO RICO	288,704.02	12,675.10	10,130.12	291,249.00	.....
RHODE ISLAND	162,952.00	.....	.....	162,952.00	.....
SOUTH CAROLINA	247,121.00	.....	.....	247,121.00	.....
SOUTH DAKOTA	238,825.33	2,490.14	146.00	241,169.47	198.53
TENNESSEE	313,427.00	.....	.....	313,427.00	.....
TEXAS	417,318.00	.....	.....	417,318.00	.....
UTAH	286,523.00	.....	.....	286,523.00	.....
VERMONT	126,290.21	264.25	177.77	126,376.69	.....
VIRGINIA	277,891.00	.....	.....	277,891.00	.....
WASHINGTON	472,537.37	.....	.....	472,537.37	1,533.63
WEST VIRGINIA	197,984.49	6,277.12	11,095.61	193,166.00	.....
WISCONSIN	346,986.28	37,147.72	38,981.00	345,153.00	.....
WYOMING	220,309.54	18,336.48	14,416.53	224,229.49	3.51
TOTALS	\$ 14,571,027.72	\$ 322,589.20	\$ 370,897.69	\$ 14,522,719.23	\$ 5,523.77

The above obligations were reported in Column (B) (Part 2) of the CSRS-2, Financial Report, June 30, 1973. Unobligated balances on June 30 are withheld from the subsequent year allotment.

TABLE 7.--Obligations incurred by eligible institutions under the Cooperative Forestry Research (McIntire-Stennis Act) for the fiscal year ended June 30, 1973

Location	Paid obligations	Unpaid Obligations		Total obligations	Unobligated balances
		June 30 1973	June 30 1972		
ALABAMA, Auburn	\$ 156,937.00	\$	\$	\$ 156,937.00	\$ 1,147.00
ALASKA, Fairbanks	85,266.98	114.90	2,375.88	83,006.00	9,944.38
ARIZONA, Flagstaff	38,631.45	.....	.....	38,631.45	9,508.48
ARIZONA, Tucson	30,179.69	.....	.....	30,179.69	9,387.68
ARKANSAS, Fayetteville	138,934.06	.....	.....	138,934.06	7,017.94
CALIFORNIA, Arcata	15,975.75	1,136.76	64.60	17,047.91	345.83
CALIFORNIA, Berkeley	146,993.18	.....	.....	146,993.18	1,075.00
COLORADO, Fort Collins	94,706.00	.....	.....	94,706.00	17,718.00
CONNECTICUT, New Haven	47,160.79	3,885.03	144.85	50,900.97	636.51
CONNECTICUT, Storrs	12,977.50	956.54	790.48	13,143.56	2,302.49
DELAWARE, Newark	23,199.96	1,200.00	.....	24,399.96	9,717.37
FLORIDA, Gainesville	140,251.16	5,201.39	5,465.29	139,987.26	7,819.51
GEORGIA, Athens	159,339.39	3,697.80	1,198.25	161,838.94	22,708.77
HAWAII, Honolulu	44,111.28	2,136.50	1,262.37	44,985.41	817.28
IDAHO, Moscow	101,918.98	1,069.00	670.10	102,317.88	18,647.09
ILLINOIS, Urbana	47,182.39	.....	.....	47,182.39	2,780.15
ILLINOIS, Carbondale	63,883.69	504.42	14,225.21	50,162.90	7,873.36
INDIANA, Lafayette	89,820.93	266.05	248.84	89,838.14	6,839.96
IOWA, Ames	71,169.99	194.42	208.80	71,155.61	15,130.74
KANSAS, Manhattan	42,925.96	3,928.86	50.05	46,804.77	2,473.21
KENTUCKY, Lexington	96,348.48	2,832.49	4,455.79	94,725.18	26,875.60
LOUISIANA, Baton Rouge	97,294.70	3,261.84	5,900.31	94,656.23	15,343.32
LOUISIANA, Ruston	38,237.09	1,476.03	5,085.62	34,627.50	11,584.33
MAINE, Orono	138,383.00	.....	.....	138,883.00	1,004.00
MARYLAND, College Park	63,602.07	.....	233.00	63,369.07	66,881.77
MASSACHUSETTS, Amherst	60,850.99	3,289.06	3,729.66	60,410.39	5,610.32
MICHIGAN, Ann Arbor	50,751.94	.....	.....	50,751.94	9,313.50
MICHIGAN, East Lansing	51,942.53	1,677.73	474.26	53,146.00	382.00
MICHIGAN, Houghton	25,682.19	505.60	191.94	25,995.85	1,108.70
MINNESOTA, St. Paul	111,500.29	2,750.58	2,002.25	112,248.62	12,472.38
MISSISSIPPI, Mississippi State	168,334.94	3,683.06	11,785.80	160,232.20	.....
MISSOURI, Columbia	114,810.00	812.00	.....	115,622.00	.....
MONTANA, Missoula	111,441.51	.....	.....	111,441.51	1,361.16
NEBRASKA, Lincoln	38,320.59	266.00	.....	38,586.59	1,210.41
NEVADA, Reno	30,609.80	1,576.71	1,058.13	31,128.38	2,602.62
NEW HAMPSHIRE, Durham	67,830.48	70.00	884.11	67,016.37	51,325.61
NEW JERSEY, New Brunswick	71,618.00	311.00	11,104.01	60,824.99	.....
NEW MEXICO, Las Cruces	57,200.45	300.19	671.39	56,829.25	1,501.59
NEW YORK, Ithaca	35,573.71	6,192.92	429.24	41,337.39	1,286.51
NEW YORK, Syracuse	120,046.42	7,068.71	5,258.16	121,856.97	29,113.48
NORTH CAROLINA, Raleigh	161,289.34	.....	.....	161,289.34	20,693.90
NORTH DAKOTA, Fargo	21,527.00	.....	.....	21,527.00	72.00
OHIO, Wooster	94,500.05	1,058.25	1,167.30	94,391.00	.....
OKLAHOMA, Stillwater	81,111.96	598.04	.....	81,710.00	550.00
OREGON, Corvallis	170,887.00	.....	.....	170,887.00	16,413.94
PENNSYLVANIA, University Park	134,706.69	.....	9,566.79	125,139.90	10,047.31
RHODE ISLAND, Kingston	23,095.91	4,202.05	.....	27,297.96	367.04
SOUTH CAROLINA, Clemson	126,803.63	.....	.....	126,803.63	29,253.35
SOUTH DAKOTA, Brookings	31,144.35	.....	.....	31,144.35	5,792.18
TENNESSEE, Knoxville	111,801.00	.....	.....	111,801.00	789.00
TEXAS, College Station	55,845.42	359.00	.....	56,204.42	4,847.88
TEXAS, Nacogdoches	63,846.89	430.00	923.94	63,352.95	.....
UTAH, Logan	55,297.68	.....	.....	55,297.68	5,306.24
VERMONT, Burlington	80,155.13	377.27	4,065.96	76,466.44	712.96
VIRGINIA, Blacksburg	135,874.00	.....	.....	135,874.00	980.00
WASHINGTON, Pullman	74,046.23	91.88	1,847.54	72,290.57	13,456.17
WASHINGTON, Seattle	81,616.93	770.00	2,857.99	79,528.94	67,271.94
WEST VIRGINIA, Morgantown	91,917.59	230.73	593.41	91,554.91	22,393.23
WISCONSIN, Madison	113,242.76	3,733.63	5,229.57	111,746.82	41,100.50
WYOMING, Laramie	46,854.03	4,898.66	3,143.69	48,609.00	287.00
TOTALS	\$ 4,858,008.90	\$ 77,115.10	\$ 109,364.58	\$ 4,825,759.42	\$ 633,802.69

The above obligations were reported in Column (C) (Part 2) of the CSRS-2, Financial Report, June 30, 1973. \$248,457 of the \$633,802.69 (unobligated balance) were reserved on U. S. Treasury books June 30, 1973.

TABLE 2.--Expenditures and funds available to the experiment stations under grants for Research Facilities for the fiscal year ended June 30, 1973

Location	Station expenditures fiscal year 1973	Unexpended Balances		Total funds available
		In hands of grantee	With U.S. Treasury	
ALABAMA, Auburn	\$ ..... \$	.....	\$ 24,857.00	\$ 24,857.00
ALASKA, Fairbanks	.....	.....	7,432.00	7,432.00
ARIZONA, Tucson	9,690.00	.....	.....	9,690.00
CALIFORNIA, Berkeley	27,278.00	.....	.....	27,278.00
CONNECTICUT, Storrs	2,402.12	2,807.88	.....	5,210.00
DELAWARE, Newark	7,929.00	.....	.....	7,929.00
FLORIDA, Gainesville	8,001.72	109.40	.....	8,111.12
GEORGIA, Athens	21,458.00	.....	.....	21,458.00
ILLINOIS, Urbana	31,829.58	.....	.....	31,829.58
INDIANA, Lafayette	.....	.....	2,463.00	2,463.00
KANSAS, Manhattan	31,563.00	.....	13,916.00	45,479.00
LOUISIANA, Baton Rouge	17,609.00	.....	.....	17,609.00
MARYLAND, College Park	.....	.....	6,868.00	6,868.00
MASSACHUSETTS, Amherst	7,717.30	.....	.....	7,717.30
MICHIGAN, East Lansing	.....	.....	3,915.00	3,915.00
MINNESOTA, St. Paul	.....	.....	28,079.00	28,079.00
MISSOURI, Columbia	.....	.....	27,899.00	27,899.00
MONTANA, Bozeman	.....	.....	11,035.00	11,035.00
NEBRASKA, Lincoln	17,656.00	.....	.....	17,656.00
NEW JERSEY, New Brunswick	574.09	254.03	.....	828.12
NEW MEXICO, Las Cruces	9,855.00	.....	.....	9,855.00
NEW YORK, Ithaca	4,688.28	19,103.64	.....	23,791.92
OHIO, Wooster	.....	.....	34,263.00	34,263.00
OKLAHOMA, Stillwater	17,803.00	.....	.....	17,803.00
OREGON, Corvallis	13,802.00	.....	.....	13,802.00
PENNSYLVANIA, University Park	23,500.00	.....	10,755.00	34,255.00
PUERTO RICO, Rio Piedras	11,939.95	4,489.38	.....	16,429.33
SOUTH CAROLINA, Clemson	54,603.00	.....	.....	54,603.00
SOUTH DAKOTA, Brookings	15,000.00	.....	.....	15,000.00
TENNESSEE, Knoxville	.....	.....	11,380.00	11,380.00
UTAH, Logan	8,899.00	.....	.....	8,899.00
VERMONT, Burlington	9,125.00	.....	.....	9,125.00
VIRGINIA, Blacksburg	26,452.00	.....	.....	26,452.00
WEST VIRGINIA, Morgantown	.....	.....	79,356.50	79,356.50
WISCONSIN, Madison	2,532.30	6,467.70	19,122.00	28,122.00
WYOMING, Laramie	.....	.....	8,403.00	8,403.00
TOTALS	\$ 381,907.34	\$ 33,232.03	\$ 289,743.50	\$ 704,882.87

Station expenditures fiscal year 1973 were reported in (Part 4) of the CSRS-2, Financial Report, June 30, 1973.

TABLE 9.--Status of Cash, Specific Grants for Research - Public Law 89-106
June 30, 1973

STATE	Expended by grantee	Unexpended Balances		TOTAL
		In hands of grantee	With U.S. Treasury	
ALABAMA	\$ 1,003,984.03	\$ 278,535.95	\$ 1,537,277.00	\$ 2,819,796.98
ARIZONA	98,827.38	40,090.74	346,846.00	485,764.12
ARKANSAS	336,875.46	111,458.36	1,036,779.00	1,485,112.82
CALIFORNIA	188,034.35	36,714.51	538,744.00	763,492.86
DELAWARE	108,566.83	42,489.51	351,993.00	503,049.34
FLORIDA	263,469.48	61,383.87	871,604.00	1,196,457.35
GEORGIA	286,220.47	245,650.31	1,045,906.00	1,577,776.78
HAWAII	37,746.00	3,254.00	25,000.00	66,000.00
IDAHO	.....	.....	45,000.00	45,000.00
ILLINOIS	110,883.90	40,672.66	261,250.00	412,806.56
INDIANA	42,359.79	10,984.80	327,500.00	380,844.59
IOWA	138,961.37	23,566.45	374,551.00	537,078.82
KANSAS	17,200.86	124.69	61,729.00	79,054.55
KENTUCKY	335,958.33	46,126.40	920,874.00	1,302,958.73
LOUISIANA	321,184.79	145,211.54	948,924.00	1,415,320.33
MARYLAND	150,778.89	70,506.06	609,199.00	830,483.95
MICHIGAN	21,647.85	13,352.15	245,000.00	280,000.00
MINNESOTA	49,932.87	4,043.03	106,295.00	160,270.90
MISSISSIPPI	411,113.27	208,145.95	1,460,150.00	2,079,409.22
MISSOURI	664,441.24	221,430.62	755,469.00	1,641,340.86
MONTANA	13,203.05	2,017.95	50,900.00	66,121.00
NEBRASKA	38,555.78	5,353.22	214,540.00	258,449.00
NEW HAMPSHIRE	16,372.00	.....	46,856.00	63,228.00
NEW JERSEY	14,986.83	3,438.48	50,000.00	68,425.31
NEW MEXICO	125,277.44	20,693.80	133,397.00	279,368.24
NEW YORK	199,296.94	90,587.05	415,600.00	705,483.99
NORTH CAROLINA	278,978.19	62,672.67	1,877,161.00	2,218,811.86
OHIO	68,436.73	23,864.47	343,450.00	435,751.20
OKLAHOMA	232,796.15	141,900.47	854,425.00	1,229,121.62
OREGON	52,614.07	.....	112,500.00	165,114.07
PENNSYLVANIA	46,610.89	4,702.75	89,301.00	140,614.64
SOUTH CAROLINA	254,957.41	79,186.23	1,077,609.00	1,411,752.64
TENNESSEE	200,648.69	43,932.55	1,285,293.00	1,529,874.24
TEXAS	464,404.68	155,176.09	1,783,390.00	2,402,970.77
VIRGINIA	161,235.16	53,386.86	1,259,787.00	1,474,409.02
WASHINGTON	10,088.90	.....	117,695.00	127,783.90
WEST VIRGINIA	16,211.01	1,642.99	15,146.00	33,000.00
WISCONSIN	31,100.36	1,408.15	158,590.31	191,098.82
TOTALS	\$ 6,813,961.44	\$ 2,293,705.33	\$ 21,755,730.31	\$ 30,863,397.08

The above Table includes active grants executed during fiscal years 1968 through 1973 only. Unexpended balances June 30, 1972: Disbursed to States \$1,476,238.08; with U. S. Treasury \$13,987,159. Appropriated in fiscal year 1973, \$15,400,000. TOTAL \$30,863,397.08.

TABLE 9A.--Status of Cash, Specific Grants for Research - Public Law 89-106
June 30, 1973

Location of Grantee	Grant Number	Amount	Expended by Grantee	Unexpended Balances	
				With Grantee	With U.S. Treasury
ALABAMA, Auburn	916-15-17	\$ 44,520.00	\$ 44,520.00	\$	\$
	916-15-23	67,000.00	66,341.49	658.51	.....
	016-15-10	100,000.00	60,775.29	1,724.71	37,500.00
	116-15-06	50,000.00	49,983.84	16.16	.....
	177-15-01	85,000.00	53,994.70	1,005.30	30,000.00
	216-15-83	120,000.00	45,140.86	10,359.14	64,500.00
	216-15-95	44,000.00	29,938.89	61.11	14,000.00
	316-15-32	110,000.00	2,915.89	384.11	106,700.00
ALABAMA, Normal	816-15-30	\$ 18,396.00	\$ 18,396.00	\$	\$
	916-15-19	18,396.00	16,844.87	1,551.13	.....
	016-15-22	18,396.00	16,844.87	1,551.13	.....
	116-15-34	18,396.00	6,894.52	8,105.48	3,396.00
	216-15-08	168,532.00	135,792.25	18,207.75	14,532.00
	216-15-09	168,532.00	139,252.37	747.63	28,532.00
	216-15-10	168,532.00	136,317.07	13,682.93	18,532.00
	316-15-07	90,503.00	36,489.10	23,510.90	30,503.00
	316-15-20	82,292.00	11,502.01	13,497.99	57,292.00
	316-15-22	115,345.00	20,711.69	14,288.31	80,345.00
	316-15-23	70,649.00	10,130.81	9,869.19	50,649.00
	316-15-24	104,977.00	24,096.62	5,903.38	74,977.00
	316-15-27	147,858.00	8,082.67	11,917.33	127,858.00
	316-15-77	76,088.00	8,433.91	11,566.09	56,088.00
ALABAMA, Tuskegee Institute	916-15-25	\$ 100,000.00	\$ 72,526.51	\$ 8,708.49	\$ 18,765.00
	016-15-16	80,000.00	55,022.49	24,977.51	.....
	116-15-08	75,000.00	55,363.93	19,636.07	.....
	216-15-01	326,015.00	211,525.77	35,632.23	78,857.00
	216-15-11	25,861.00	10,431.91	1,318.09	14,111.00
	216-15-27	27,261.00	25,664.11	1,596.89	.....
	216-15-55	33,060.00	13,368.20	1,255.80	18,436.00
	216-15-115	118,501.00	50,000.00	.....	68,501.00
	316-15-30	42,000.00	3,532.16	1,467.84	37,000.00
	316-15-71	44,231.00	6,802.52	13,197.48	24,231.00
	316-15-72	166,805.00	29,026.20	6,973.80	130,805.00
	316-15-73	151,781.00	42,000.00	.....	109,781.00
	316-15-74	41,825.00	6,354.52	6,645.48	28,825.00
	316-15-75	17,911.00	1,270.90	1,729.10	14,911.00
	316-15-76	62,992.00	7,113.95	3,886.05	51,992.00
	316-15-134	32,489.00	.....	.....	32,489.00
	316-15-135	31,626.00	.....	.....	31,626.00
	316-15-139	81,543.00	.....	.....	81,543.00
ARIZONA, Tucson	816-15-01	\$ 150,000.00	\$ 147,701.08	\$ 2,298.92	\$
	916-15-12	55,800.00	40,297.37	7,002.63	8,500.00
	016-15-17	60,000.00	23,202.48	18,797.52	18,000.00
	116-15-19	96,760.00	39,422.33	11,991.67	45,346.00
	216-15-81	110,000.00	15,000.00	.....	95,000.00
	316-15-33	90,000.00	.....	.....	90,000.00
	316-15-34	90,000.00	.....	.....	90,000.00

TABLE 9A.--Status of Cash, Specific Grants for Research - Public Law 89-106
June 30, 1973 (Continued)

Location of Grantee	Grant Number	Amount	Expended by Grantee	Unexpended Balances	
				With Grantee	With U.S. Treasury
ARKANSAS, Fayetteville	816-15-16	\$ 119,023.00	\$ 119,023.00	\$	\$
	916-15-06	68,857.00	68,857.00	.....	.....
	916-15-24	56,211.00	50,656.35	5,554.65	.....
	016-15-09	45,000.00	45,000.00	.....	.....
	216-15-84	82,000.00	28,980.25	11,019.75	42,000.00
	216-15-87	125,000.00	121,220.79	3,779.21	.....
	216-15-89	30,000.00	17,525.18	7,474.82	5,000.00
	316-15-49	55,000.00	4,542.00	2,208.00	48,250.00
	316-15-35	100,000.00	2,874.93	4,125.07	93,000.00
ARKANSAS, Pine Bluff	916-15-38	\$ 16,980.00	\$ 16,980.00	\$	\$
	016-15-37	16,980.00	16,955.19	24.81	.....
	116-15-29	10,200.00	7,313.91	2,886.09	.....
	116-15-30	6,780.00	5,118.58	1,661.42	.....
	216-15-33	57,240.00	24,353.88	1,422.12	31,464.00
	216-15-64	93,120.00	21,775.78	6,845.22	64,499.00
	216-15-65	112,440.00	27,646.42	8,234.58	76,559.00
	216-15-106	11,640.00	3,229.80	270.20	8,140.00
	216-15-110	127,242.00	31,017.38	3,288.62	92,936.00
	216-15-111	82,447.00	20,954.32	11,195.68	50,297.00
	316-15-05	106,980.00	17,614.63	6,865.37	82,500.00
	316-15-28	287,794.00	4,911.25	34,602.75	248,280.00
	316-15-103	95,160.00	.....	.....	95,160.00
	316-15-104	84,720.00	.....	.....	84,720.00
	316-15-113	13,974.00	.....	.....	13,974.00
CALIFORNIA, Berkeley	816-15-14	\$ 73,000.00	\$ 73,000.00	\$	\$
	916-15-21	100,000.00	99,306.26	693.74	.....
	016-15-06	100,000.00	70,421.00	.....	29,579.00
	016-15-07	100,000.00	39,583.00	.....	60,417.00
	116-15-18	106,240.00	40,586.00	.....	65,654.00
	216-15-41	65,000.00	5,419.68	10,912.32	48,668.00
	216-15-77	112,000.00	18,194.00	.....	93,806.00
	216-15-88	175,000.00	84,271.55	25,108.45	65,620.00
	316-15-36	85,000.00	.....	.....	85,000.00
	316-15-63	90,000.00	.....	.....	90,000.00
DELAWARE, Dover	816-15-34	\$ 12,413.00	\$ 11,500.71	\$ 912.29	\$
	916-15-44	12,413.00	11,951.55	461.45	.....
	116-15-24	12,413.00	5,954.26	4,114.74	2,344.00
	216-15-26	99,744.00	51,777.83	6,955.17	41,011.00
	216-15-109	139,629.00	25,030.27	20,687.73	93,911.00
	316-15-01	188,152.00	44,881.87	9,358.13	133,912.00
FLORIDA, Gainesville	116-15-14	\$ 102,000.00	\$ 38,860.00	\$	\$ 63,140.00
	177-15-02	127,000.00	48,176.55	7,316.45	71,507.00
	316-15-56	67,383.00	253.44	21,316.56	45,813.00
	316-15-123	95,000.00	.....	.....	95,000.00

TABLE 9A.--Status of Cash, Specific Grants for Research - Public Law 89-106
June 30, 1973 (Continued)

Location of Grantee	Grant Number	Amount	Expended by Grantee	Unexpended Balances	
				With Grantee	With U.S. Treasury
FLORIDA, Tallahassee	816-15-31	\$ 14,946.00	\$ 14,346.96	\$ 599.04	.....
	916-15-30	7,473.00	7,473.00	.....	.....
	016-15-31	14,946.00	9,054.00	2,946.00	2,946.00
	216-15-03	106,411.00	24,628.53	16,724.47	65,058.00
	216-15-04	268,665.00	146,145.37	10,578.63	111,941.00
	316-15-18	234,291.00	28,097.28	1,902.72	204,291.00
	316-15-114	33,800.00	.....	.....	33,800.00
	316-15-131	178,108.00	.....	.....	178,108.00
GEORGIA, Athens	916-15-13	\$ 6,000.00	\$ 5,986.64	\$ 13.36	.....
	916-15-15	70,110.00	60,110.00	.....	10,000.00
	016-15-15	30,000.00	28,000.00	.....	2,000.00
	177-15-03	80,000.00	39,000.00	.....	41,000.00
	216-15-80	85,000.00	16,000.00	.....	69,000.00
	316-15-50	80,000.00	.....	.....	80,000.00
GEORGIA, Fort Valley	016-15-27	\$ 18,836.00	\$ 8,865.31	\$ 9,970.69	.....
	116-15-40	18,836.00	17,980.35	855.65	.....
	216-15-18	136,335.00	56,336.78	10,501.22	69,497.00
	216-15-28	94,064.00	38,816.57	20,529.43	34,718.00
	216-15-70	201,193.00	39,285.00	26,323.00	135,585.00
	216-15-114	151,959.00	50,284.98	9,884.02	91,790.00
	316-15-13	204,025.00	10,093.60	135,412.40	58,519.00
	316-15-29	236,249.00	28,492.46	32,160.54	175,596.00
	316-15-133	278,201.00	.....	.....	278,201.00
HAWAII, Honolulu	116-15-12	\$ 90,000.00	\$ 61,746.00	\$ 3,254.00	\$ 25,000.00
IDAHO, Moscow	316-15-122	\$ 45,000.00	.....	.....	\$ 45,000.00
ILLINOIS, Urbana	016-15-18	\$ 90,000.00	\$ 60,933.71	\$ 29,066.29	.....
	116-15-11	70,000.00	44,762.52	2,237.48	23,000.00
	177-15-04	180,000.00	91,840.66	8,159.34	80,000.00
	216-15-101	25,000.00	23,790.45	1,209.55	.....
	316-15-66	85,000.00	.....	.....	85,000.00
	316-15-139	73,250.00	.....	.....	73,250.00
INDIANA, Lafayette	016-15-21	\$ 90,000.00	\$ 19,515.20	\$ 10,984.80	\$ 59,500.00
	177-15-05	120,000.00	29,500.00	.....	90,500.00
	216-15-102	25,000.00	14,750.00	.....	10,250.00
	316-15-51	95,000.00	1,000.00	.....	94,000.00
	316-15-98	73,250.00	.....	.....	73,250.00
IOWA, Ames	916-15-01	\$ 140,000.00	\$ 96,022.63	\$ 5,977.37	\$ 38,000.00
	016-15-04	74,051.00	45,927.28	3,572.72	24,551.00
	177-15-06	130,000.00	78,503.52	3,996.48	47,500.00
	216-15-39	75,000.00	49,788.75	5,211.25	20,000.00
	216-15-46	80,000.00	16,580.48	3,419.52	60,000.00
	216-15-122	17,000.00	1,110.89	1,389.11	14,500.00
	316-15-31	75,000.00	.....	.....	75,000.00
	316-15-64	95,000.00	.....	.....	95,000.00

TABLE 9A.--Status of Cash, Specific Grants for Research - Public Law 89-106
June 30, 1973 (Continued)

Location of Grantee	Grant Number	Amount	Expended by Grantee	Unexpended Balances	
				With Grantee	With U.S. Treasury
KANSAS, Manhattan	216-15-48	\$ 80,000.00	\$ 18,146.31	\$ 124.69	\$ 61,729.00
KENTUCKY, Frankfort	116-15-41	\$ 19,080.00	\$ 19,080.00	\$	\$
	216-15-12	278,000.00	150,000.00	.....	128,000.00
	216-15-13	227,265.00	140,000.00	.....	87,265.00
	216-15-14	29,500.00	28,140.28	1,359.72	.....
	216-15-53	25,000.00	19,492.89	5,507.11	.....
	216-15-71	20,864.00	17,205.44	3,658.56	.....
	216-15-72	16,000.00	9,291.98	6,708.02	.....
	316-15-79	197,382.00	.....	.....	197,382.00
	316-15-80	51,227.00	6,494.25	6,311.75	38,421.00
	316-15-81	134,164.00	33,541.00	.....	100,623.00
	316-15-82	207,183.00	16,322.71	13,677.29	177,183.00
	316-15-83	145,600.00	5,000.00	7,000.00	133,600.00
KENTUCKY, Lexington	216-15-21	\$ 73,400.00	\$ 13,096.05	\$ 1,903.95	\$ 58,400.00
LOUISIANA, Baton Rouge	916-15-16	\$ 49,000.00	\$ 49,000.00	\$	\$
	016-15-11	40,000.00	38,136.62	1,863.38	.....
(State agricultural Experiment Station)	116-15-02	75,000.00	63,398.00	.....	11,602.00
	116-15-07	38,000.00	38,000.00	.....	.....
	216-15-79	140,000.00	41,130.23	1,884.77	96,985.00
	216-15-96	38,000.00	.....	.....	38,000.00
	316-15-37	92,000.00	.....	.....	92,000.00
	316-15-39	75,000.00	.....	.....	75,000.00
LOUISIANA, Baton Rouge	716-15-34	\$ 16,251.00	\$ 15,974.32	\$ 276.68	\$
	016-15-30	16,251.00	16,123.41	127.59	.....
	116-15-27	16,251.00	8,313.30	7,937.70	.....
(Southern University)	216-15-07	58,135.00	25,509.11	24,490.89	8,135.00
	216-15-15	55,305.00	32,267.47	18,532.53	4,505.00
	216-15-16	68,196.00	36,244.71	23,755.29	8,196.00
	216-15-17	50,992.00	12,000.00	.....	38,992.00
	216-15-19	79,604.00	41,090.82	23,909.18	14,604.00
	216-15-29	59,857.00	15,000.00	.....	44,857.00
	216-15-54	65,478.00	20,942.47	26,057.53	18,478.00
	216-15-69	7,469.00	7,469.00	.....	.....
	316-15-19	59,190.00	23,624.00	16,376.00	19,190.00
	316-15-105	146,191.00	.....	.....	146,191.00
	316-15-106	58,817.00	.....	.....	58,817.00
	316-15-107	180,755.00	.....	.....	180,755.00
	316-15-115	92,617.00	.....	.....	92,617.00
MARYLAND, College Park	016-15-20	\$ 54,530.00	\$ 35,000.00	\$	\$ 19,530.00
	316-15-70	55,000.00	.....	.....	55,000.00

TABLE 9A.--Status of Cash, Specific Grants for Research - Public Law 89-106
June 30, 1973 (Continued)

Location of Grantee	Grant Number	Amount	Expended by Grantee	Unexpended Balances	
				With Grantee	With U.S.Treasury
MARYLAND, Princess Anne	016-15-38	\$ 14,231.00	\$ 7,116.00	\$	\$ 7,115.00
	116-15-28	6,231.00	5,518.74	712.26	.....
	116-15-37	8,000.00	7,690.93	309.07	.....
	216-15-36	235,240.00	88,582.22	11,457.78	135,200.00
	216-15-107	49,166.00	25,561.75	15,752.25	7,852.00
	216-15-108	52,350.00	21,694.58	18,305.42	12,350.00
	316-15-25	28,828.00	30.72	23,969.28	4,828.00
	316-15-101	40,920.00	.....	.....	40,920.00
	316-15-102	54,642.00	.....	.....	54,642.00
	316-15-126	61,712.00	.....	.....	61,712.00
	316-15-127	74,707.00	.....	.....	74,707.00
	316-15-132	135,343.00	.....	.....	135,343.00
MICHIGAN, East Lansing	216-15-25	\$ 90,000.00	\$ 21,065.28	\$ 8,434.72	\$ 60,500.00
	316-15-65	95,000.00	.....	.....	95,000.00
	316-15-67	95,000.00	582.57	4,917.43	89,500.00
MINNESOTA, St. Paul	016-15-19	\$ 60,000.00	\$ 59,869.42	\$ 130.58	\$
	116-15-13	95,000.00	37,692.55	3,912.45	53,395.00
	216-15-45	70,000.00	17,100.00	.....	52,900.00
MISSISSIPPI, Lorman	816-15-29	\$ 18,751.00	\$ 12,303.05	\$ 6,447.95	\$
	916-15-35	18,751.00	16,040.85	2,710.15	.....
	016-15-36	18,751.00	7,620.05	2,379.95	8,751.00
	116-15-25	18,751.00	3,134.48	4,865.52	10,751.00
	216-15-05	143,699.00	43,044.70	1,955.30	98,699.00
	216-15-37	177,974.00	27,445.25	21,554.75	128,974.00
	216-15-116	257,377.00	7,879.39	22,120.61	227,377.00
	316-15-26	270,230.00	5,011.34	34,988.66	230,230.00
	316-15-110	70,000.00	.....	.....	70,000.00
	316-15-111	222,368.00	.....	.....	222,368.00
	316-15-112	150,000.00	.....	.....	150,000.00
MISSISSIPPI, Mississippi State	916-15-18	\$ 93,000.00	\$ 79,763.92	\$ 13,236.08	\$
	016-15-14	120,000.00	71,916.93	23,083.07	25,000.00
	116-15-03	172,000.00	171,970.25	29.75	.....
	116-15-05	43,000.00	41,550.10	1,449.90	.....
	177-15-07	60,000.00	48,956.07	11,043.93	.....
	216-15-92	193,000.00	185,000.00	.....	8,000.00
	216-15-93	22,000.00	19,145.39	2,854.61	.....
	216-15-94	43,000.00	33,711.94	9,288.06	.....
	316-15-40	100,000.00	.....	15,000.00	85,000.00
	316-15-39	90,000.00	.....	10,000.00	80,000.00
	316-15-94	87,000.00	21,862.34	25,137.66	40,000.00
	316-15-125	75,000.00	.....	.....	75,000.00
MISSOURI, Columbia	016-15-02	\$ 85,000.00	\$ 56,166.36	\$ 2,833.64	\$ 26,000.00
	177-15-08	68,000.00	33,940.17	12,059.83	22,000.00
	216-15-78	78,000.00	27,371.68	5,628.32	45,000.00
	216-15-100	25,000.00	25,000.00	.....	.....
	316-15-57	93,840.00	2,858.83	7,141.17	83,840.00
	316-15-99	80,250.00	.....	.....	80,250.00
	316-15-138	20,000.00	.....	.....	20,000.00

TABLE 9A.--Status of Cash, Specific Grants for Research - Public Law 89-106
June 30, 1973 (Continued)

Location of Grantee	Grant Number	Amount	Expended by Grantee	Unexpended Balances	
				With Grantee	With U.S. Treasury
MISSOURI, Jefferson City	716-15-26	\$ 18,239.00	\$ 17,357.47	\$ 881.53	\$
	916-15-37	18,239.00	18,124.03	114.97	.....
	016-15-33	18,239.00	12,665.43	5,573.57	.....
	116-15-33	18,239.00	11,573.17	6,665.83	.....
	216-15-61	483,789.00	318,232.74	75,697.26	89,859.00
	216-15-73	67,770.00	63,449.50	4,320.50	.....
	316-15-14	194,873.00	11,238.00	38,762.00	144,873.00
	316-15-15	210,141.00	125,000.00	.....	85,141.00
	316-15-16	37,769.00	17,248.00	20,521.00	.....
	316-15-17	50,403.00	25,432.00	24,971.00	.....
	316-15-78	109,852.00	.....	.....	109,852.00
	316-15-90	73,654.00	8,740.00	16,260.00	48,654.00
MONTANA, Bozeman	216-15-23	\$ 96,900.00	\$ 43,982.05	\$ 2,017.95	\$ 50,900.00
NEBRASKA, Lincoln	916-15-03	\$ 64,127.00	\$ 64,127.00	\$	\$
	216-15-22	89,900.00	12,932.00	.....	76,968.00
	216-15-47	85,000.00	17,950.00	.....	67,050.00
	316-15-58	76,922.00	1,046.78	5,353.22	70,522.00
NEW HAMPSHIRE, Durham	116-15-09	\$ 79,000.00	\$ 32,144.00	\$	\$ 46,856.00
NEW JERSEY, New Brunswick	216-15-43	\$ 70,000.00	\$ 16,561.52	\$ 3,438.48	\$ 50,000.00
NEW MEXICO, Las Cruces	016-15-12	\$ 110,000.00	\$ 105,520.00	\$	\$ 4,480.00
	116-15-20	96,000.00	96,000.00	.....	.....
	216-15-85	140,000.00	78,603.11	8,979.89	52,417.00
	316-15-41	90,000.00	1,786.09	11,713.91	76,500.00
NEW YORK, Geneva	216-15-40	\$ 100,000.00	\$ 52,243.39	\$ 12,756.61	\$ 35,000.00
	316-15-62	100,000.00	633.91	14,366.09	85,000.00
NEW YORK, Ithaca	016-15-01	\$ 120,000.00	\$ 91,017.34	\$ 28,982.66	\$
	216-15-06	75,000.00	55,516.80	19,483.20	.....
	216-15-24	95,000.00	40,761.02	4,238.98	50,000.00
	316-15-21	75,000.00	.....	.....	75,000.00
	316-15-53	80,000.00	4,240.49	10,759.51	65,000.00
NEW YORK, Yonkers	316-15-42	\$ 110,000.00	\$ 4,400.00	\$	\$ 105,600.00
NORTH CAROLINA, Raleigh	816-15-04	\$ 51,000.00	\$ 51,000.00	\$	\$
	916-15-04	59,879.00	47,007.81	5,692.19	7,179.00
	916-15-32	73,898.00	51,671.66	8,058.34	14,168.00
	116-15-15	82,000.00	31,492.68	5,507.32	45,000.00
	216-15-90	30,000.00	11,931.41	2,068.59	16,000.00
	216-15-121	75,000.00	16,702.65	8,297.35	50,000.00
	316-15-52	95,000.00	20.81	6,979.19	88,000.00
	316-15-68	95,000.00	1,173.75	14,826.25	79,000.00

TABLE 9A.--Status of Cash, Specific Grants for Research - Public Law 89-106
June 30, 1973 (Continued)

Location of Grantee	Grant Number	Amount	Expended by Grantee	Unexpended Balances	
				With Grantee	With U.S. Treasury
NORTH CAROLINA, Greensboro	: 816-15-25	\$ 22,424.00	\$ 21,990.94	\$ 433.06	\$
	: 916-15-48	5,000.00	3,317.76	1,682.24	.....
	: 916-15-49	7,424.00	7,422.35	1.65	.....
	: 916-15-50	10,000.00	10,000.00	.....	.....
	: 016-15-34	10,000.00	9,420.25	579.75	.....
	: 016-15-35	12,424.00	4,106.14	293.86	8,024.00
	: 116-15-22	2,424.00	836.42	1,587.58	.....
	: 116-15-23	10,000.00	.....	.....	10,000.00
	: 116-15-38	10,000.00	4,197.55	802.45	5,000.00
	: 216-15-74	134,522.00	31,557.00	.....	102,965.00
	: 216-15-75	128,688.00	27,247.00	.....	101,441.00
	: 216-15-104	146,781.00	23,754.00	.....	123,027.00
	: 216-15-105	150,210.00	25,525.00	.....	124,685.00
	: 216-15-112	81,712.00	23,285.00	.....	58,427.00
	: 216-15-117	133,941.00	19,807.00	.....	114,134.00
	: 316-15-08	138,232.00	20,062.00	.....	118,170.00
	: 316-15-09	151,033.00	13,594.15	5,862.85	131,576.00
	: 316-15-116	103,282.00	.....	.....	103,282.00
	: 316-15-117	106,810.00	.....	.....	106,810.00
	: 316-15-118	297,642.00	.....	.....	297,642.00
	: 316-15-130	172,631.00	.....	.....	172,631.00
OHIO, Alliance	: 316-15-54	\$ 15,000.00	\$ 5,100.00	\$	\$ 9,900.00
OHIO, Wooster	: 916-15-05	\$ 37,000.00	\$ 18,632.94	\$ 7,367.06	\$ 11,000.00
	: 116-15-16	91,000.00	24,508.58	7,491.42	59,000.00
	: 216-15-38	54,800.00	26,834.92	3,165.08	24,800.00
	: 216-15-103	25,000.00	14,500.00	.....	10,500.00
	: 316-15-55	80,000.00	7,614.63	2,385.37	70,000.00
	: 316-15-59	90,000.00	1,544.46	3,455.54	85,000.00
	: 316-15-121	73,250.00	.....	.....	73,250.00
OKLAHOMA, Langston	: 116-15-31	\$ 15,956.00	\$ 15,956.00	\$	\$
	: 216-15-56	110,340.00	70,739.00	.....	40,101.00
	: 216-15-66	79,085.00	43,861.00	.....	35,224.00
	: 216-15-67	60,423.00	33,101.00	.....	36,322.00
	: 216-15-113	160,789.00	39,223.00	27,216.00	94,350.00
	: 316-15-06	61,683.00	.....	26,080.00	35,603.00
	: 316-15-108	223,210.00	.....	40,000.00	183,210.00
	: 316-15-109	232,015.00	.....	40,000.00	192,015.00
OKLAHOMA, Stillwater	: 916-15-09	\$ 95,750.00	\$ 79,289.47	\$ 6,460.53	\$ 10,000.00
	: 016-15-13	75,000.00	66,043.40	8,956.60	.....
	: 116-15-17	92,000.00	51,301.39	1,698.61	39,000.00
	: 216-15-76	85,000.00	25,186.96	14,813.04	45,000.00
	: 216-15-97	30,000.00	17,244.31	2,755.69	10,000.00
	: 316-15-43	94,000.00	.....	.....	94,000.00
	: 316-15-96	39,600.00	.....	.....	39,600.00
	:				
OREGON, Corvallis	: 016-15-03	\$ 43,419.00	\$ 43,419.00	\$	\$
	: 216-15-98	75,000.00	37,500.00	.....	37,500.00
	: 316-15-95	75,000.00	.....	.....	75,000.00

TABLE 9A.--Status of Cash, Specific Grants for Research - Public Law 89-106
June 30, 1973 (Continued)

Location of Grantee	Grant Number	Amount	Expended by Grantee	Unexpended Balances	
				With Grantee	With U.S. Treasury
PENNSYLVANIA, Univ. Park	177-15-09	\$ 150,000.00	\$ 85,996.25	\$ 4,702.75	\$ 59,301.00
	316-15-124	30,000.00	.....	.....	30,000.00
SOUTH CAROLINA, Clemson	816-15-11	\$ 60,000.00	\$ 60,000.00	\$	\$
	116-15-21	109,000.00	20,150.00	.....	88,850.00
	216-15-82	75,000.00	.....	.....	75,000.00
	316-15-45	97,000.00	.....	.....	97,000.00
SOUTH CAROLINA, Orangeburg	816-15-24	\$ 17,143.00	\$ 14,943.74	\$ 2,199.26	\$
	916-15-34	17,143.00	11,654.50	1,845.50	3,643.00
	016-15-24	17,143.00	14,280.00	.....	2,863.00
	116-15-39	17,143.00	8,057.00	.....	9,086.00
	216-15-51	475,705.00	107,000.00	.....	368,705.00
	216-15-118	17,143.00	3,500.00	.....	13,643.00
	316-15-02	136,626.00	36,296.22	27,633.78	72,696.00
	316-15-03	201,651.00	57,575.58	21,604.42	122,471.00
	316-15-12	100,639.00	8,700.63	14,384.37	77,554.00
	316-15-84	161,098.00	3,481.10	11,518.90	146,098.00
TENNESSEE, Knoxville	816-15-06	\$ 75,000.00	\$ 75,000.00	\$	\$
	316-15-44	75,000.00	.....	.....	75,000.00
	316-15-92	75,000.00	.....	.....	75,000.00
TENNESSEE, Nashville	016-15-29	\$ 19,256.00	\$ 19,256.00	\$	\$
	116-15-36	19,256.00	15,759.91	3,496.09	.....
	216-15-31	191,644.00	19,124.45	9,151.55	163,368.00
	216-15-34	199,441.00	50,327.29	16,955.71	132,158.00
	216-15-35	166,450.00	46,463.39	3,883.61	116,103.00
	216-15-68	48,516.00	19,628.71	893.29	27,994.00
	316-15-04	115,806.00	41,228.82	1,962.18	72,615.00
	316-15-85	195,260.00	.....	2,000.00	193,260.00
	316-15-86	90,037.00	1,260.12	739.88	88,037.00
	316-15-100	185,011.00	149.76	4,850.24	180,011.00
	316-15-119	71,531.00	.....	.....	71,531.00
	316-15-128	90,216.00	.....	.....	90,216.00
TEXAS, College Station	816-15-36	\$ 25,000.00	\$ 24,902.54	\$ 97.46	\$
	916-15-22	100,000.00	99,713.42	286.58	.....
	016-15-05	100,000.00	88,424.44	375.56	11,200.00
	016-15-08	140,000.00	113,790.44	2,209.56	24,000.00
	116-15-01	100,000.00	99,846.60	153.40	.....
	216-15-86	73,000.00	44,820.94	1,679.06	26,500.00
	216-15-91	100,000.00	74,752.20	4,247.80	21,000.00
	216-15-99	45,000.00	24,356.08	4,643.92	16,000.00
	316-15-46	100,000.00	2,958.37	2,041.63	95,000.00
	316-15-47	110,000.00	.....	.....	110,000.00
	316-15-48	110,000.00	.....	.....	110,000.00

TABLE 9A.--Status of Cash, Specific Grants for Research - Public Law 89-106
June 30, 1973 (Continued)

Location of Grantee	Grant Number	Amount	Expended by Grantee	Unexpended Balances	
				With Grantee	With U.S. Treasury
TEXAS, Prairie View	916-15-45	\$ 5,500.00	\$ 5,491.10	\$ 8.90	\$
	916 15 46	16,491.00	16,466.96	24.04	.....
	016-15-32	21,991.00	20,757.95	1,233.05	.....
	116-15-32	21,991.00	6,781.07	1,218.93	13,991.00
	216-15-57	126,500.00	39,059.10	17,255.90	70,185.00
	216-15-58	117,783.00	32,678.12	3,361.88	81,743.00
	216-15-59	108,893.00	41,149.46	15,867.54	51,876.00
	216-15-60	131,355.00	30,717.19	6,280.81	94,357.00
	216-15-62	155,730.00	30,707.27	11,599.73	113,423.00
	216-15-63	112,390.00	22,749.27	18,114.73	71,526.00
	316-15-87	257,690.00	978.23	29,369.77	227,342.00
	316-15-88	131,924.00	1,156.75	9,511.25	121,256.00
	316-15-89	240,816.00	126.41	25,594.59	215,095.00
	316-15-129	155,218.00	.....	.....	155,218.00
	316-15-137	153,678.00	.....	.....	153,678.00
VIRGINIA, Blacksburg	916-15-27	\$ 50,000.00	\$ 43,537.99	\$ 6,462.01	\$
	216-15-42	90,000.00	7,600.32	2,399.68	80,000.00
	316-15-69	70,000.00	.....	.....	70,000.00
	316-15-93	80,400.00	.....	.....	80,400.00
VIRGINIA, Petersburg	716-15-36	\$ 18,107.00	\$ 18,107.00	\$	\$
	816-15-32	18,107.00	18,107.00	.....	.....
	916-15-28	18,107.00	13,000.00	.....	5,107.00
	016-15-25	18,107.00	8,000.00	.....	10,107.00
	116-15-30	18,107.00	18,107.00	.....	.....
	216-15-20	195,255.00	59,875.86	3,000.14	132,379.00
	216-15-30	197,628.00	56,899.15	5,713.85	135,015.00
	216-15-52	151,644.00	17,041.37	10,332.63	124,270.00
	316-15-10	546,380.00	19,521.45	25,478.55	501,380.00
	316-15-12	121,129.00	.....	.....	121,129.00
WASHINGTON, Pullman	916-15-29	\$ 50,000.00	\$ 50,000.00	\$	\$
	316-15-11	17,000.00	9,600.00	.....	7,400.00
	316-15-60	80,295.00	.....	.....	80,295.00
	316-15-91	30,000.00	.....	.....	30,000.00
WEST VIRGINIA, Morgantown	116-15-10	\$ 33,000.00	\$ 16,211.01	\$ 1,642.99	\$ 15,146.00
WISCONSIN, Madison	816-15-20	\$ 83,618.00	\$ 83,587.69	\$	\$ 30.31
	916-15-02	40,000.00	38,591.85	1,408.15	.....
	216-15-44	85,000.00	18,000.00	.....	67,000.00
	316-15-61	91,560.00	.....	.....	91,560.00

EXPENDED BY GRANTEE: Cumulative total from the date of the execution of the grant through June 30, 1973. Adjustments in expenditures, resulting from Federal or State audits, will be reflected in the June 30, 1974, CSRS-2, Financial report. Unexpended balances of terminated grants have been refunded to the Cooperative State Research Service since June 30, 1973, or will be refunded when the balances are verified.

Specific Grants for Research Executed During Fiscal Year 1973 - Public Law 89-106
(Formula Grants)

Location of Grantee	Grant Number	Project Title	Amount
ALABAMA, Normal	316-15-07	A comparison of the Baking and Nutritional Value of Triticale with Other Serials	\$ 90,503
	316-15-20	Evaluation of Triticale Grain for Growing and Finishing Swine	82,292
	316-15-22	Effect of Soil Acidity and Liming on the Growth and Yield of Triticale	115,345
	316-15-23	Evaluation of Triticale Grain as a component of Broiler Rations	70,649
	316-15-27	Cytogenetic Studies of Triticale	147,858
	316-15-24	Effect of Different Levels of NPK Growth Characteristics, Yield, and Quality of Triticale	104,977
	316-15-77	Income Inequality and its Relationship to Community Structures and Community Interactions	76,088
ALABAMA, Tuskegee Institute	316-15-30	Rural Development Research Center, Phase II	\$ 42,000
	316-15-71	Type and Extent of Seed Dormancy, Phase II	44,231
	316-15-72	Sweet Potato Breeding . . . True Seed Production and Progency Evaluation, Phase II	166,805
	316-15-73	Diet Related Toxemia in Pregnancy, Phase II	151,781
	316-15-74	Promotion of Weed Seed Germination by Various Physical and Chemical Treatments, Phase II	41,825
	316-15-75	Life-Span of Weed Seeds Buried in Soil, Phase II	17,911
	316-15-76	Varietal and Adaptation Studies on Small Fruits, Chestnuts, Figs, and Persimmons	62,992
	316-15-134	Studies on the Motility of Bovine Genital Tract	32,489
	316-15-135	Seminal Antigens and Fertility	31,626
	316-15-139	Survey of Infectious and Nutritional Diseases Associated with Feeder-Pig Production in East Alabama	81,543
ARKANSAS, Pine Bluff	316-15-05	Factors of Disadvantage as Related to School Performance	\$ 106,980
	316-15-28	A Study of the Human and Natural Resources of the Disadvantaged People of Southeast Arkansas	287,794
	316-15-103	Potassium Supplying Power of Selected Southeast Arkansas Soils for Soybeans	95,160
	316-15-104	Effects of Mareks Vaccination and Debeaking on Production Efficiency of Pullets and Hens	84,720
	316-15-113	Evaluation of Varieties and New Strains of Soybeans in Southeast Arkansas, Phase II	13,974
DELAWARE, Dover	316-15-01	An Economic Analysis of Low Income Families in Rural Delaware	\$ 188,152
	316-15-136	Factors Affecting Stand of Alfalfa Persistence in Delaware	80,815
FLORIDA, Tallahassee	316-15-18	Information Consumption by the Client System as a Strategy to Reduce the Impact of Rural Poverty	\$ 234,291
	316-15-114	Improvement of the Nutrition of Teen-Agers in Selected Counties of North Florida, Phase I	33,800
	316-15-131	Survey for High Methionine Peanut Varieties	178,108
GEORGIA, Fort Valley	316-15-13	Effects of Different Environmental Factors on the Physiology of Domestic Fowl Gallus gallus	\$ 204,025
	316-15-29	The Effect of Marginal Prenatal and Postnatal Malnutrition on Cellular Development	236,249
	316-15-133	Nitrogen Fertilization Studies in Soybeans	278,201

Specific Grants for Research Executed During Fiscal Year 1973 - Public Law 89-106
(Formula Grants)

Location of Grantee	Grant Number	Project Title	Amount
KENTUCKY, Frankfort	316-15-79	Eating Habits and Nutritional Status of the Teens in Kentucky	\$ 197,382
	316-15-80	Income and Expenditure Patterns for a Group of Select Counties in Kentucky	51,227
	316-15-81	Effects of Subclinical Malnutrition Adolescent Life Styles in a Rural Population	134,164
	316-15-82	Monitoring Subclinical Malnutrition to Enhance Rural Development	207,183
	316-15-83	Develop a Set of Correlated Indices Which Can Be Used in the Study of Subclinical Malnutrition	145,600
LOUISIANA, Baton Rouge (Southern University)	316-15-19	Environmental Effects on Productivity of Crayfish in Pond Habitats, Phase II	\$ 59,190
	316-15-105	Syntheses and Studies of Newer Systems of Anticarcinogenic Agents	146,191
	316-15-106	Study of Serological Antigens from the Yeast Phase of Histoplasma Capsulatum	58,817
	316-15-107	An Analysis of the Economic Factors Affecting the Success of Small Farm Operators	180,755
	316-15-115	A Study of Family Planning of Low-Income Families in Small Towns of Louisiana	92,617
MARYLAND, Princess Anne	316-15-25	The Nutritive Value of Selected Pork Products, Phase II	\$ 28,828
	316-15-101	Evaluation of Chemotherapeutic Agents Commonly Utilized in Poultry Feeds	40,920
	316-15-102	Selecting an Optimum Crop Combination - A Study of the Decision Process of Small Farmers	54,642
	316-15-106	Oxygen Requirements and Responses to Temperature and Salinity of the Oyster	61,712
	316-15-127	Activity Rhythms of the Northern Rock Crab in Relation to Environmental and Social Factors	74,707
	316-15-132	Breeding Soybeans for Resistance to Corn Earworm Heliothis zea (Boddie), Phase I	135,343
MISSISSIPPI, Lorman	316-15-26	Dairy Waste Treatment	\$ 270,230
	316-15-110	Basic Human Needs in Rural Development: Clothing	70,000
	316-15-111	Basic Human Needs in Rural Development: Food and Nutrition	222,368
	316-15-112	Basic Human Needs in Rural Development: Housing	150,000
MISSOURI, Jefferson City	316-15-14	Investigations of Physiological Mechanisms of Corpus Luteum Function in Domestic Animal Species	\$ 194,873
	316-15-15	Hair as a Biopsy Material for Use in Human Nutrition Surveys	210,141
	316-15-16	Nutritional and Psychological Approaches to Behavioral Control of Overeating	37,769
	316-15-17	A Study of Factors Which Influence Human Food Habit Formation and Change	50,403
	316-15-78	Birth Status Risk, Environmental Influences, Developmental Patterns and Outcomes	109,852
	316-15-90	Metabolizable Energy Value of Some Ingredients Normally Fed to Swine	73,654
NORTH CAROLINA, Greensboro	316-15-08	The Degradation of Endosulfan in Cigarette Main-Stream and Side-Stream Smokes	\$ 138,232
	316-15-09	The Effect of Food Preparation Methods on the Selenium Content of Foodstuffs	151,033
	316-15-116	Effects of Domestic, Agricultural, Industrial, and Soil Pollution on Selected Pond Ecosystems	103,282
	316-15-117	Agricultural Waste Management and Environmental Quality Phase I	106,810

Specific Grants for Research Executed During Fiscal Year 1973 - Public Law 89-106
(Formula Grants)

Location of Grantee	Grant Number	Project Title	Amount
OKLAHOMA, Langston	316-15-06	A Comparison of the Baking and Nutritional Value of Triticales with Other Cereals	\$ 61,683
	316-15-108	Synthesis and Characterization of Stable Plant Disease Resistance	223,210
	316-15-109	Formation of Nitrosamines	232,015
SOUTH CAROLINA, Orangeburg	316-15-02	Macrophomia phaseoli (Sclerotium bataticola) as Related to Crop Plants in South Carolina	\$ 136,626
	316-15-03	Identification and Evaluation of Pollutants in Rural Drinking Water Supplies	201,651
	316-15-12	Economic Feasibility of Organizing Marketing and Supply Cooperatives by the Low-Income Farmers	100,639
	316-15-84	Effect of Communication and Transportation on Utilization of Services by Low-Income Rural People	161,098
TENNESSEE, Nashville	316-15-04	The Influence of Herbicides on Soil and Water Quality	\$ 115,806
	316-15-85	Land Utilization Systems for Maximum Beef Production with a Cow-Calf Operation	195,260
	316-15-86	Changes in Industrial Structure in West Tennessee and its Impact on Development in Rural Areas	90,037
	316-15-100	The Breeding of Ornamental Peaches to Enhance Rural and Urban Environments	185,011
	316-15-119	Evaluation of Selected Pesticides for Possible Mutagenic Properties	71,531
	316-15-128	Behavior and Effect of Nitrogenous Euthrophyng Substances Present in Domestic Wastewater Effluents	90,216
TEXAS, Prairie View	316-15-87	Economic and Technical Feasibility of Producing and Marketing Selected Fruits in the Gulf Coast Area	\$ 257,690
	316-15-88	Analysis of Resources on Small Low-Income Farms	131,924
	316-15-89	Health-Care Delivery Services in Rural Texas	240,816
	316-15-129	Heavy-Metal Pollution of Soils: Effects on Agricultural Produce of Area Adjacent to Urban Centers	155,218
	316-15-137	Environmental Study of a Multi-Use Fluidized Bed Municipal Incinerator	153,678
VIRGINIA, Petersburg	316-15-10	Natural Means of Control of Insect-Pests Through Resistant Germ Plasm Resources	\$ 546,380
	316-15-120	A Study of Fire Hazards in Homes of Low-Income Families of Southside Virginia	121,129
			121,129
TOTAL (Formula Grants)			\$10,883,000

Specific Grants for Research Executed During Fiscal Year 1973 - Public Law 89-106
(Competitive Grants)

Location of Grantee	Grant Number	Project Title	Amount
ALABAMA, Auburn	316-15-32	Production of Mycotoxins (other than aflatoxin) by Fungi Isolated from Cottonseed	\$ 110,000
ARIZONA, Tucson	316-15-33	A Predictive Model to Forecast Changes in Density of Pink Bollworm Populations	\$ 90,000
	316-15-34	Monitoring Insect Parasites in a Cotton Pest Management Program	90,000

Specific Grants for Research Executed During Fiscal Year 1973 - Public Law 89-106
(Competitive Grants)

Location of Grantee	Grant Number	Project Title	Amount
ARKANSAS, Fayetteville	316-15-35	Cotton Pest Management: An Evaluation of Population Assessment Techniques and the Definition of more Exact Treatment Thresholds With Varying Cultural Situations	\$ 100,000
	316-15-49	Subcellular Host Responses to Plant Virus Infection and Their Relation to Resistance and Susceptibility	55,000
CALIFORNIA, Berkeley	316-15-36	The Biological Efficiency of Cotton Production Systems	\$ 85,000
	316-15-63	Nematode Population Management in Perennial Crops	90,000
FLORIDA, Gainesville	316-15-56	Non-Chemical Control of Soil-Borne Fungal Pathogens of Container-Grown Ornamental Plants	\$ 67,383
	316-15-123	Management of Invertebrate Pests and Plant Diseases in Citrus Agroecosystems	95,000
GEORGIA, Athens	316-15-50	Viral Biosynthesis and its Endogenous Inhibition Correlated With Specific Host Metabolic Events and Plant Resistance	\$ 80,000
IDAHO, Moscow	316-15-122	Development of Economic Thresholds for the Green Peach Aphid for Commercial Potato Production	\$ 45,000
ILLINOIS, Urbana	316-15-66	The Effect of Night Air Temperature on the Efficiency of Production of Soybeans (<i>Glycine max</i> L.)	\$ 85,000
	316-15-97	Bionomics and Management of Soil Arthropods	73,250
INDIANA, Lafayette	316-15-51	Recognition as a Determinant of Biochemical Response in the Interaction of Plants and Infectious Agents	\$ 95,000
	316-15-98	Bionomics and Management of Soil Arthropods	73,250
IOWA, Ames	316-15-31	North Central Regional Center for Rural Development	\$ 75,000
	316-15-64	Bionomics and Pest Management of Soil Arthropod Pests	95,000
LOUISIANA, Baton Rouge (State Agricultural Experiment Station)	316-15-37	Effect of Subsurface Drainage on Oxygen Content, Root Development, and Cotton Yield in Poorly Drained Mississippi River Alluvial Soils	\$ 92,000
	316-15-38	Control of the Boll Weevil and Other Key Pests of Cotton Through the use of Host Plant Resistance	75,000
MARYLAND, College Park	316-15-70	Integrated Control of Mexican Bean Beetle in Soybeans Through Resistant Varieties and Parasite Release	\$ 55,000
MICHIGAN, East Lansing	316-15-65	A Secondary Phase Interdisciplinary Pest Management Program for Apples	\$ 95,000
	316-15-67	Biological Control of Root- and Stem-Infecting Pathogens of Soybeans	95,000
MISSISSIPPI, Mississippi State	316-15-39	Development of Cotton Breeding Lines Carrying Resistance to the Twospotted Spider Mite, <i>Tetranychus urticae</i> Koch and to the Tarnished Plant Bug, <i>Lygus lineolaris</i> (Palisot de Beauvois)	\$ 90,000
	316-15-40	Control of Bermudagrass, Johnsongrass, and Spurred Anoda in Cotton	100,000

Specific Grants for Research Executed During Fiscal Year 1973 - Public Law 89-106
(Competitive Grants)

Location of Grantee	Grant Number	Project Title	Amount
MISSISSIPPI, Mississippi State	316-15-94	Scientific Assessment of Suppressant Components on Boll Weevil Populations in the South Mississippi Pilot	\$ 87,000
	316-15-125	Eradication Experiment and Evaluation of the Total Program Southern Regional Rural Development Research Council	\$ 75,000
MISSOURI, Columbia	316-15-57	Nutrition of Cyst and Root-Knot Nematode	\$ 93,840
	316-15-99	Bionomics and Management of Soil Arthropods	\$ 80,250
	316-15-138	Integrated Pest Management as it Relates to Environmental Quality	\$ 20,000
NEBRASKA, Lincoln	316-15-58	Biological Control of Internal Parasites in Livestock	\$ 76,922
NEW MEXICO, Las Cruces	316-15-41	A Study of Growth and Environmental Relationships in Conventional and Short-Season Cotton Cultures and the Influence of These Relationships on the Biological Efficiency of the Crop	\$ 90,000
NEW YORK, Geneva	316-15-62	Pest Management of the Seed-Corn Maggot Using Population Surveys, Economic Thresholds, and Juvenile Hormone Mimics	\$ 100,000
NEW YORK, Ithaca	316-15-21	Northeast Regional Center for Rural Development	\$ 75,000
	316-15-53	Significance of Paillae in Disease Resistance to Fungal Pathogens	\$ 80,000
NEW YORK, Yonkers	316-15-42	Characterization of the Enzymatic Mechanisms of Pathogenesis in Verticillium of Cotton	\$ 110,000
NORTH CAROLINA, Raleigh	316-15-52	Mechanisms of Resistance to Fusarium Rust and Rotting Diseases of Forest Trees	\$ 95,000
	316-15-68	A Study of the Physiological Basis of Over-Compensation Between Soybean Varieties	\$ 95,000
OHIO, Alliance	316-15-54	Analysis of the Polyphenol-Phenolase Interactions Leading to Hypersensitivity in Nematox Tomato Roots Infected With the Root-Knot Nematode (Meloidogyne incognita)	\$ 15,000
OHIO, Wooster	316-15-55	The Role of the Maize Chlorotic Dwarf Virus in the Corn Stunt and Maize Dwarf Mosaic Diseases in the United States	\$ 80,000
	316-15-59	Utilization of Female Sex Pheromones to Disrupt Mating Behavior and Reduce Populations of Borers Attacking Woody Ornamental Plants	\$ 90,000
	316-15-121	Bionomics and Management of Soil Arthropods	\$ 73,250
OKLAHOMA, Stillwater	316-15-43	A Biological-Economic Model of Insect Populations and Control in Cotton	\$ 94,000
	316-15-96	Biochemical Studies of the Xanthomonas malvacearum Induced Hypersensitive Reaction in Cotton Plants	\$ 39,600
OREGON, Corvallis	316-15-95	Social Marginalization of Human Resources in Declining Rural Industries in the Western Region	\$ 75,000

Specific Grants for Research Executed During Fiscal Year 1973 - Public Law 89-106
(Competitive Grants)

Location of Grantee	Grant Number	Project Title	Amount
PENNSYLVANIA, University Park	316-15-124	Development of Procedures to Minimize Fungicide Usage on Decidious Fruits	\$ 30,000
SOUTH CAROLINA, Clemson	316-15-45	Farm and Gin Community Evaluations of Machinery Complements for Harvesting and Hauling Seed Cotton	\$ 97,000
TENNESSEE, Knoxville	316-15-44	Basic Research on the Biology and Habits of the Boll Weevil, <i>Anthonomus grandis</i> Boheman, to Support a Pest Management Program on Cotton in Tennessee	\$ 75,000
	316-15-92	Optimizing Cotton Tillage	75,000
TEXAS, College Station	316-15-46	Plant Resistance to Cotton Fleshopper and Boll Weevil	\$ 100,000
	316-15-47	Adversity-Multi-Disease Resistant Cottons, <i>Gossypium</i> <i>hirsutum</i> L., Which Are Useful to High-density Culture and to Promoting Simplified Management	110,000
	316-15-48	Analytical Systems Models to Evaluate Alternative Pest Management Policies for Cotton Ecosystems	110,000
VIRGINIA, Blacksburg	316-15-69	The Role of Soybean Sterols in Resistance to Heteroderes <i>glycines</i>	\$ 70,000
	316-15-93	Biochemical Control of Efficiency in the Cotton Plant	80,400
WASHINGTON, Pullman	316-15-11	Empirical Evaluation of the Research Activity and the Allocation of Resources in State Agricultural Experiment Stations	\$ 17,000
	316-15-60	Proteinase Inhibitors in Natural Plant Protection	80,295
	316-15-91	Pest Management on Decidious Tree Fruit Crops	30,000
WISCONSIN, Madison	316-15-61	Control of Fungal Diseases by Genetic Manipulation of the Pathogens	\$ 91,560
		TOTAL (Competitive Grants)	\$4,517,000
Total Formula and Competitive Grants			\$15,400,000

Pursuant to Public Law 89-106, grants are executed for a maximum of five years. Funds made available for one Grant are not available for obligation for any other grant.

TABLE 10.--Non-Federal obligations incurred by State agricultural experiment stations and Other State institutions - Fiscal Year 1973

STATE	Paid obligations	Unpaid Obligations		Total obligations	Unobligated balances
		June 30 1973	June 30 1972		
ALABAMA	\$ 5,193,130	\$	\$	\$ 5,193,130	\$ 1,750,192
ALASKA	830,447	27,956	18,260	840,143	52,416
ARIZONA	5,183,433	44,075	50,500	5,177,008	337,420
ARKANSAS	4,960,791	.....	.....	4,960,791	1,014,408
CALIFORNIA	31,037,668	739,955	723,715	31,053,908	3,202,823
COLORADO	3,072,783	.....	.....	3,072,783	.....
CONNECTICUT	2,712,966	12,302	8,112	2,717,156	27,894
DELAWARE	928,234	.....	.....	928,234	489,556
FLORIDA	15,159,616	414,898	180,483	15,394,031	1,315,309
GEORGIA	8,281,663	917,870	183,381	9,016,152	695,425
HAWAII	3,774,034	93,802	118,974	3,748,862	121,790
IDAHO	2,713,467	88,159	76,909	2,724,717	142,855
ILLINOIS	8,345,486	.....	.....	8,345,486	.....
INDIANA	6,797,892	214,493	236,382	6,776,003	1,516,755
IOWA	6,823,509	160,769	130,777	6,853,501	778,418
KANSAS	6,815,978	330,742	339,851	6,806,869	569,998
KENTUCKY	4,595,108	.....	.....	4,595,108	.....
LOUISIANA	8,119,541	344,970	195,664	8,268,847	64,378
MAINE	1,660,889	.....	.....	1,660,889	145,245
MARYLAND	2,838,140	25,194	7,710	2,855,624	63,354
MASSACHUSETTS	1,192,383	.....	.....	1,192,383	.....
MICHIGAN	8,376,274	359,245	99,040	8,636,479	.....
MINNESOTA	9,627,837	.....	.....	9,627,837	.....
MISSISSIPPI	6,841,504	.....	.....	6,841,504	1,523,801
MISSOURI	5,851,753	306,477	.....	6,158,230	155,572
MONTANA	3,437,039	.....	.....	3,437,039	787,674
NEBRASKA	8,959,775	103,616	1,091	9,062,300	68,494
NEVADA	1,168,853	.....	.....	1,168,853	.....
NEW HAMPSHIRE	537,410	.....	.....	537,410	138,001
NEW JERSEY	6,270,632	.....	.....	6,270,632	.....
NEW MEXICO	1,670,513	.....	.....	1,670,513	75,972
NEW YORK	15,019,653	.....	.....	15,019,653	.....
NORTH CAROLINA	10,902,816	46,409	.....	10,949,225	.....
NORTH DAKOTA	3,721,612	7,600	7,218	3,721,994	1,100,402
OHIO	7,312,201	893,200	713,401	7,492,000	1,574,175
OKLAHOMA	4,147,580	.....	.....	4,147,580	1,143,678
OREGON	7,633,149	.....	.....	7,633,149	.....
PENNSYLVANIA	5,105,573	.....	.....	5,105,573	819,719
PUERTO RICO	4,537,695	388,226	357,355	4,568,566	157,628
RHODE ISLAND	618,404	.....	.....	618,404	223,330
SOUTH CAROLINA	4,281,609	52,933	.....	4,334,542	366,148
SOUTH DAKOTA	3,175,244	.....	.....	3,175,244	.....
TENNESSEE	4,274,412	.....	.....	4,274,412	408,367
TEXAS	12,426,700	.....	.....	12,426,700	4,148,944
UTAH	1,850,308	.....	.....	1,850,308	273,767
VERMONT	797,642	21,345	38,211	780,776	53,829
VIRGINIA	5,472,548	.....	.....	5,472,548	140,232
WASHINGTON	7,062,735	.....	.....	7,062,735	.....
WEST VIRGINIA	1,269,526	.....	.....	1,269,526	423,878
WISCONSIN	10,728,060	663,773	1,121,156	10,270,677	184,993
WYOMING	2,105,698	.....	.....	2,105,698	153,604
GUAM	56,651	.....	.....	56,651	.....
TOTALS	\$296,278,564	\$ 6,258,009	\$ 4,608,190	\$ 297,928,383	\$ 26,210,444

Non-Federal obligations listed above were reported in Column (E) (Part 2) of the CSRS-2, Financial Report, June 30, 1973.

TABLE 11.--Summary of expenditures incurred by experiment stations and other institutions - fiscal year 1973

STATE	Hatch Act, as Amended		Cooperative Forestry Research (M-S Act)	Research Facilities	Specific Grants for Research	Total Federal Funds	Non-Federal Funds	Grand Total
	Formula Funds	Regional Research						
ALABAMA	\$ 1,399,506	\$ 297,114	\$ 156,937	\$	\$ 1,003,984	\$ 2,857,541	\$ 5,193,130	\$ 8,050,671
ALASKA	364,437	46,500	85,267	.....	.....	426,204	830,447	1,326,651
ARIZONA	471,995	274,675	68,811	9,690	98,827	923,998	5,183,433	6,107,431
ARKANSAS	1,157,129	242,422	138,734	.....	336,875	1,882,420	4,960,791	6,843,211
CALIFORNIA	1,421,635	520,271	162,262	27,278	188,034	2,320,187	31,037,668	33,357,855
COLORADO	630,734	394,533	94,706	.....	.....	1,119,973	3,072,783	4,192,756
CONNECTICUT	527,567	196,247	60,138	2,402	.....	786,354	2,712,966	3,499,320
DELAWARE	405,301	142,508	23,200	7,929	108,567	694,505	922,234	1,622,739
FLORIDA	435,865	162,300	140,251	8,002	263,470	1,416,888	15,159,616	16,576,504
GEORGIA	1,491,610	375,978	159,339	21,458	286,221	2,334,606	8,281,663	10,616,269
HAWAII	432,896	160,477	44,111	.....	37,746	675,230	3,774,034	4,449,264
IDAHO	502,503	233,848	101,919	.....	.....	838,270	2,713,467	3,551,737
ILLINOIS	1,570,553	344,791	111,066	31,230	110,884	2,169,124	8,345,486	10,514,610
INDIANA	1,416,045	335,360	59,521	.....	42,360	1,884,086	6,797,892	8,681,978
IOWA	1,446,544	463,427	71,170	.....	138,961	2,146,102	6,823,509	8,969,611
KANSAS	968,997	281,152	42,926	31,563	17,201	1,341,839	6,815,978	8,157,817
KENTUCKY	1,551,175	299,156	96,349	.....	335,958	2,282,538	4,595,108	6,877,646
LOUISIANA	1,050,341	222,249	135,532	17,602	321,185	1,746,216	8,119,541	9,866,457
MAINE	551,933	207,515	138,883	.....	.....	898,331	1,660,889	2,559,220
MARYLAND	724,907	278,507	63,602	.....	150,779	1,217,795	2,838,140	4,055,935
MASSACHUSETTS	680,437	238,542	60,851	7,717	.....	987,547	1,192,383	2,179,930
MICHIGAN	1,492,378	286,436	126,377	.....	21,648	1,934,939	8,376,274	10,311,113
MINNESOTA	1,362,025	303,635	111,500	.....	49,933	1,847,093	3,627,837	11,474,930
MISSISSIPPI	1,474,536	333,972	168,335	.....	411,113	2,387,956	6,841,504	9,229,460
MISSOURI	1,433,463	296,335	114,810	.....	664,441	2,509,049	5,851,753	8,360,802
MONTANA	541,750	276,097	111,442	.....	13,203	942,492	3,437,039	4,379,531
NEBRASKA	876,120	307,418	38,321	17,656	38,556	1,278,071	8,959,775	10,237,846
NEVADA	353,626	148,607	30,610	.....	.....	532,843	1,168,853	1,701,696
NEW HAMPSHIRE	451,980	152,207	67,830	.....	16,372	688,389	537,410	1,225,799
NEW JERSEY	627,182	376,237	71,618	574	14,987	1,090,598	6,270,632	7,361,230
NEW MEXICO	517,498	156,132	57,200	9,855	125,277	865,962	1,670,513	2,536,475
NEW YORK	1,500,842	536,160	155,620	4,688	199,297	2,396,607	15,019,653	17,416,260
NORTH CAROLINA	2,161,117	416,683	161,289	.....	278,978	3,018,067	10,902,816	13,920,883
NORTH DAKOTA	682,729	237,398	21,527	.....	.....	941,654	3,721,612	4,663,266
OHIO	1,760,444	307,831	94,500	.....	68,437	2,231,212	7,312,201	9,543,413
OKLAHOMA	1,032,052	214,409	81,112	17,803	232,796	1,578,172	4,147,580	5,725,752
OREGON	718,335	390,107	170,887	13,802	52,614	1,345,745	7,633,149	8,978,894
PENNSYLVANIA	2,017,110	469,423	134,707	23,500	46,611	2,691,351	5,105,573	7,796,924
PUERTO RICO	1,582,997	288,704	.....	11,940	.....	1,883,641	4,537,695	6,421,336
RHODE ISLAND	371,208	162,952	23,096	.....	.....	557,256	618,404	1,175,660
SOUTH CAROLINA	1,211,040	247,121	126,804	54,603	254,957	1,894,525	4,281,609	6,176,134
SOUTH DAKOTA	682,970	238,825	31,144	15,000	.....	967,939	3,175,244	4,143,183
TENNESSEE	1,593,330	313,427	111,801	.....	200,649	2,219,207	4,274,412	6,493,619
TEXAS	2,131,334	417,318	119,692	.....	464,405	3,132,749	12,426,700	15,559,449
UTAH	459,406	286,523	55,298	8,899	.....	810,126	1,850,308	2,660,434
VERMONT	471,844	126,290	80,155	9,125	.....	687,414	797,642	1,485,056
VIRGINIA	1,387,439	277,891	135,874	26,452	161,235	1,988,891	5,472,548	7,461,439
WASHINGTON	819,084	472,537	155,663	.....	10,089	1,457,373	7,062,735	8,520,108
WEST VIRGINIA	877,565	197,985	91,918	.....	16,211	1,183,679	1,269,526	2,453,205
WISCONSIN	1,440,867	346,986	113,243	2,532	31,100	1,934,728	10,728,060	12,662,788
WYOMING	430,101	220,310	46,854	.....	.....	697,265	2,105,698	2,802,963
GUAM	13,013	.....	.....	.....	.....	13,013	56,651	69,664
VIRGIN ISLANDS	7,024	.....	.....	.....	.....	7,024	.....	7,024
TOTALS	\$ 52,110,479	\$ 14,571,028	\$ 4,858,009	\$ 381,907	\$ 6,813,961	\$ 78,735,384	\$ 296,278,564	\$ 375,013,948

This Table includes expenditures (paid obligations) only, rounded to the nearest dollar. Actual expenditures are included in Tables 5, 6, 7, 8, and 9. Tables 5, 6, 7, and 10, also include total obligations incurred (paid and unpaid).

TABLE 12.--Classification of expenditures incurred by the experiment stations and other institutions, Fiscal Year 1973

PROGRAM	Personal Services	Travel	Capital Assets		Other Operating Expenses		Total expenditures
			Equipment	Lands and structures	Personnel benefits	All other	
HATCH ACT, as Amended							
Formula Funds	\$ 42,685,838	\$ 755,199	\$ 2,346,083	\$ 152,418	\$ 761,583	\$ 5,409,358	\$ 52,110,479
Regional Research	11,325,193	584,335	661,463	7,216	160,939	1,831,882	14,571,028
Total Hatch	\$ 54,011,031	\$ 1,339,534	\$ 3,007,546	\$ 159,634	\$ 922,522	\$ 7,241,240	\$ 66,681,507
Cooperative Forestry Research (M-S) Act	\$ 4,002,965	\$ 154,087	\$ 203,629	\$ 461	\$ 76,775	\$ 420,092	\$ 4,858,009
Research Facilities Act	\$	\$	\$	\$ 381,907	\$	\$	\$ 381,907
Specific Grants for Research	\$ 3,808,992	\$ 212,029	\$ 919,261	\$ 5,455	\$ 194,784	\$ 1,673,440	\$ 6,813,961
TOTAL FEDERAL FUNDS	\$ 61,822,988	\$ 1,705,650	\$ 4,130,436	\$ 547,457	\$ 1,194,081	\$ 9,334,772	\$ 78,735,384
TOTAL NON-FEDERAL FUNDS	\$196,015,292	\$ 6,223,062	\$13,418,554	\$ 6,581,980	\$13,240,364	\$60,799,292	\$ 296,278,564
GRAND TOTAL	\$257,838,280	\$ 7,928,732	\$17,548,990	\$ 7,129,437	\$14,434,445	\$70,134,064	\$ 375,013,948

TABLE 13.--Expenditures incurred by State agricultural experiment stations, Hatch Act, as Amended, August 11, 1955, and non-Federal funds, fiscal year 1973 (Percentage Ratios)

Description	Percent of Total	
	Federal	Non-Federal
Percentage ratio of Federal and non-Federal expenditures to total expenditures	18.37	81.63
Percentage ratio of Federal and non-Federal personnel expenditures to total personnel expenditures	21.60	78.40
Percent of Federal and non-Federal funds expended for personnel	81.00	66.16
Percent of Federal and non-Federal funds expended for lands and structures	00.24	02.22
Percent of Federal and non-Federal funds expended for equipment	04.51	04.53

The word "Personnel" includes object class 11, Personal Services, only.

LAND-GRANT INSTITUTIONS ESTABLISHED UNDER THE MORRILL ACT OF JULY 2, 1862, AND STATE AGRICULTURAL
EXPERIMENT STATIONS ESTABLISHED UNDER THE HATCH ACT OF 1887

ALABAMA, Auburn - Auburn University	::	MONTANA, Bozeman - Montana State University
ALASKA, Fairbanks - University of Alaska	::	NEBRASKA, Lincoln - University of Nebraska
ARIZONA, Tucson - University of Arizona	::	NEVADA, Reno - University of Nevada
ARKANSAS, Fayetteville - University of Arkansas	::	NEW HAMPSHIRE, Durham - University of New Hampshire
CALIFORNIA, Berkeley - University of California	::	NEW JERSEY, New Brunswick - Rutgers, The State University
COLORADO, Fort Collins - Colorado State University	::	NEW MEXICO, Las Cruces - New Mexico State University
CONNECTICUT, New Haven * * * * *	::	NEW YORK, Geneva - Cornell University
CONNECTICUT, Storrs - University of Connecticut	::	NEW YORK, Ithaca - Cornell University
DELAWARE, Newark - University of Delaware	::	NORTH CAROLINA, Raleigh - North Carolina State University
FLORIDA, Gainesville - University of Florida	::	at Raleigh
GEORGIA, Athens - University of Georgia	::	NORTH DAKOTA, Fargo - North Dakota State University
GUAM, Agana - University of Guam	::	OHIO, Columbus - Ohio State University
HAWAII, Honolulu - University of Hawaii	::	OKLAHOMA, Stillwater - Oklahoma State University
IDAHO, Moscow - University of Idaho	::	OREGON, Corvallis - Oregon State University
ILLINOIS, Urbana - University of Illinois	::	PENNSYLVANIA, University Park - Penn State University
INDIANA, Lafayette - Purdue University	::	PUERTO RICO, Rio Piedras - University of Puerto Rico
IOWA, Ames - Iowa State University of Science and	::	RHODE ISLAND, Kingston - University of Rhode Island
Technology	::	SOUTH CAROLINA, Clemson - Clemson University
KANSAS, Manhattan - Kansas State University	::	SOUTH DAKOTA, Brookings - South Dakota State University
KENTUCKY, Lexington - University of Kentucky	::	TENNESSEE, Knoxville - University of Tennessee
LOUISIANA, Baton Rouge - Louisiana State University	::	TEXAS, College Station - Texas A&M University
and A&M College	::	UTAH, Logan - Utah State University
MAINE, Orono - University of Maine	::	VERMONT, Burlington - University of Vermont
MARYLAND, College Park - University of Maryland	::	VIRGINIA, Blacksburg - Virginia Polytechnic Institute
MASSACHUSETTS, Amherst - University of Massachusetts	::	and State University
MICHIGAN, East Lansing - Michigan State University	::	VIRGIN ISLANDS, St. Croix - College of the Virgin Islands
MINNESOTA, St. Paul - University of Minnesota	::	WASHINGTON, Pullman - Washington State University
MISSISSIPPI, Mississippi State - Mississippi State	::	WEST VIRGINIA, Morgantown - West Virginia University
University	::	WISCONSIN, Madison - University of Wisconsin
MISSOURI, Columbia - University of Missouri	::	WYOMING, Laramie - University of Wyoming
	::	

CONNECTICUT has two agricultural experiment stations: The Connecticut Agricultural Experiment Station, New Haven, and the Storrs Agricultural Experiment Station at the University of Connecticut. The Connecticut Agricultural Experiment Station is governed by the Board of Control of that Station; the Storrs Agricultural Experiment Station is governed by the Board of Trustees of the University of Connecticut.

NEW YORK has two agricultural experiment stations: The New York State Agricultural Experiment Station, Geneva, and the Agricultural Experiment Station of Cornell University, Ithaca. Both Stations are governed by the Board of Trustees of Cornell University, but each Station is operated independently.

Land-Grant status for the College of the Virgin Islands, and the University of Guam, was established by Public Law 92-318, Section 506, June 23, 1972, Education Amendments of 1972. The Hatch Act, and the McIntire-Stennis Act, were amended by the same Public Law, to include Guam and the Virgin Islands.

LAND-GRANT INSTITUTIONS ESTABLISHED UNDER THE SECOND MORRILL ACT OF 1890

ALABAMA, Normal - Alabama Agricultural and Mechanical	::	MISSISSIPPI, Lorman - Alcorn Agricultural and Mechanical
University	::	College
ARKANSAS, Pine Bluff - University of Arkansas at	::	MISSOURI, Jefferson City - Lincoln University
Pine Bluff	::	NORTH CAROLINA, Greensboro - North Carolina Agricultural
DELAWARE, Dover - Delaware State College	::	and Technical State University
FLORIDA, Tallahassee - Florida Agricultural and	::	OKLAHOMA, Langston - Langston University
Mechanical University	::	SOUTH CAROLINA, Orangeburg - South Carolina State
GEORGIA, Fort Valley - Fort Valley State College	::	College
KENTUCKY, Frankfort - Kentucky State University	::	TENNESSEE, Nashville - Tennessee State University
LOUISIANA, Baton Rouge - Southern University and	::	TEXAS, Prairie View - Prairie View Agricultural and
Agricultural and Mechanical College	::	Mechanical College
MARYLAND, Princess Anne - University of Maryland	::	VIRGINIA, Petersburg - Virginia State College
Eastern Shore	::	
	::	

STATE INSTITUTIONS AT OTHER THAN LAND-GRANT LOCATIONS PARTICIPATING IN THE COOPERATIVE FORESTRY RESEARCH
(MCINTIRE-STENNIS) PROGRAM

ARIZONA, Flagstaff - Northern Arizona University	::	MICHIGAN, Houghton - Michigan Technological University
CALIFORNIA, Arcata - California State University,	::	MONTANA, Missoula - Forest and Conservation Experiment
Humboldt	::	Station, School of Forestry, University of Montana
ILLINOIS, Carbondale - Southern Illinois University	::	NEW YORK, Syracuse - State University of New York,
LOUISIANA, Ruston - School of Forestry, Louisiana	::	College of Environmental Science and Forestry
Tech University	::	TEXAS, Nacogdoches - Stephen F. Austin State University
MICHIGAN, Ann Arbor - University of Michigan	::	WASHINGTON, Seattle - University of Washington
	::	
	::	

See Table 7 for Geographic location of all State institutions currently participating in the Cooperative Forestry Research (McIntire-Stennis) Program.

OTHER PARTICIPATING INSTITUTIONS - RECIPIENTS OF PUBLIC LAW 89-106 GRANTS

ALABAMA, Tuskegee Institute	::	
	::	NEW YORK, Yonkers - Boyce Thompson Institute for
OHIO, Alliance - Mount Union College	::	Plant Research, Inc
	::	
	::	
	::	

See Table 9A for Geographic location of all recipients of Public Law 89-106 grants.