

**Calendar No. 216**

108TH CONGRESS }  
*1st Session* }

SENATE

{ REPORT  
108-107

AGRICULTURE, RURAL DEVELOPMENT, FOOD AND DRUG  
ADMINISTRATION, AND RELATED AGENCIES APPROPRIATIONS  
BILL, 2004

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JULY 17, 2003.—Ordered to be printed  
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Mr. BENNETT, from the Committee on Appropriations,  
submitted the following

**REPORT**

[To accompany S. 1427]

The Committee on Appropriations reports the bill (S. 1427) making appropriations for Agriculture, Rural Development, Food and Drug Administration, and Related Agencies programs for the fiscal year ending September 30, 2004, and for other purposes, reports favorably thereon and recommends that the bill do pass.

*Total obligational authority, fiscal year 2004*

Amount of bill as reported to the Senate .....	\$77,403,914,000
Amount of 2003 appropriations acts to date .....	74,724,290,000
Amount of estimates, 2004 .....	77,561,060,000
The bill as recommended to the Senate:	
Over the appropriations provided in 2003 .....	2,679,624,000
Under the estimates for 2004 .....	157,146,000

*Dairy Forage Lab.*—The Committee has been made aware of improvement needs at Dairy Forage Laboratory facility locations at Prairie du Sac and Madison, Wisconsin. The Committee directs ARS to provide a report on the feasibility, requirements, and scope for facility needs at these locations. The report should detail any expansion of building size, costs, associated facilities, scientific capacity, and other requirements for operations. The report should also detail existing and planned program and resource requirements for these locations, and should be submitted to the Committee on Appropriations for the House and Senate by March 1, 2004.

COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION  
SERVICE

The Cooperative State Research, Education, and Extension Service was established by the Secretary of Agriculture on October 1, 1994, under the authority of the Department of Agriculture Reorganization Act of 1994 (7 U.S.C. 6912). The Service was created by the merger of the Cooperative State Research Service and the Extension Service. The mission is to work with university partners and customers to advance research, extension, and higher education in the food and agricultural sciences and related environmental and human sciences to benefit people, communities, and the Nation.

RESEARCH AND EDUCATION ACTIVITIES

Appropriations, 2003 .....	\$616,792,000
Budget estimate, 2004 .....	514,228,000
Committee recommendation .....	617,575,000

The research and education programs administered by the Cooperative State Research, Education, and Extension Service [CSREES] are the U.S. Department of Agriculture's principal entrée to the university system of the United States to support higher education in food and agricultural sciences and to conduct agricultural research as authorized by the Hatch Act of 1887 (7 U.S.C. 361a–361i); the Cooperative Forestry Research Act of 1962 (16 U.S.C. 582a–7); Public Law 89–106, section (2) (7 U.S.C. 450i); the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3101 et seq.); the Equity in Educational Land-Grant Status Act of 1994 (7 U.S.C. 301); the Agricultural Research, Extension and Education Reform Act of 1998; and the Farm Security and Rural Investment Act of 2002. Through these authorities, the U.S. Department of Agriculture participates with State and other cooperators to encourage and assist the State institutions to conduct agricultural research and education through the State agricultural experiment stations of the 50 States, the District of Columbia, and the territories; by approved schools of forestry; by the 1890 land-grant institutions and Tuskegee University; by colleges of veterinary medicine; and by other eligible institutions.

The research and education programs participate in a nationwide system of agricultural research program planning and coordination among the State institutions, U.S. Department of Agriculture, and the agricultural industry of America.

## COMMITTEE RECOMMENDATIONS

For research and education activities of the Cooperative State Research, Education, and Extension Service, the Committee recommends \$617,575,000. This amount is \$783,000 more than the fiscal year 2003 appropriation. This does not include an increase of \$51,000 for FECA administrative charges, as requested in the budget.

The following table summarizes the Committee's recommendations for research and education activities of the Cooperative State Research, Education, and Extension Service, as compared to the fiscal year 2003 and budget request levels:

COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION SERVICES [CSREES]—RESEARCH AND EDUCATION ACTIVITIES

[In thousands of dollars]

	2003 appropriation	2004 budget	Committee recommendation
Payments under Hatch Act .....	178,977	180,148	178,977
Cooperative forestry research (McIntire-Stennis) .....	21,742	21,884	21,742
Payments to 1890 colleges and Tuskegee University .....	35,411	36,000	35,411
Special research grants (Public Law 89-106):			
Advanced genetic technologies (KY) .....	671	.....	671
Advanced spatial technologies (MS) .....	983	.....	983
Aegilops cylindricum (WA, ID) .....	381	.....	342
Agricultural diversification (HI) .....	127	.....	127
Agricultural diversity—Red River Trade Corridor (MN, ND) .....	497	.....	497
Agricultural science (OH) .....	497	.....	497
Agriculture water usage (GA) .....	291	.....	261
Agroecology (MD) .....	397	.....	397
Air quality (TX, KS) .....	869	.....	869
Alliance for food protection (GA, NE) .....	298	.....	268
Alternative crops (ND) .....	199	.....	.....
Alternative nutrient management (VT) .....	185	.....	166
Alternative salmon products (AK) .....	627	.....	631
Alternative uses for tobacco (MD) .....	358	.....	358
Animal disease research (WY) .....	248	.....	248
Animal science food safety consortium (AR, IA, KS) .....	1,604	.....	1,614
Apple Fire Blight (MI, NY) .....	492	.....	442
Aquaculture (AR) .....	230	.....	172
Aquaculture (ID, WA) .....	770	.....	693
Aquaculture (LA) .....	328	.....	350
Aquaculture (MS) .....	582	.....	582
Aquaculture (NC) .....	291	.....	261
Aquaculture (VA) .....	124	.....	111
Aquaculture product and marketing development (WV) .....	735	.....	750
Armillaria root rot (MI) .....	159	.....	143
Asparagus technology and production (WA) .....	278	.....	278
Babcock Institute (WI) .....	596	.....	600
Beef technology transfer (MO) .....	292	.....	292
Berry research (AK) .....	199	.....	200
Biobased nanocomposite research (ND) .....	.....	.....	199
Biomass-based energy research (OK, MS) .....	1,143	.....	1,143
Biotechnology (NC) .....	304	.....	228
Biotechnology test production (IA) .....	199	.....	199
Blocking anhydrous methamphetamine production (IA) .....	240	.....	.....
Bovine tuberculosis (MI) .....	346	.....	311
Brucellosis vaccine (MT) .....	490	.....	490
Center for Food Quality (UT) .....	149	.....	.....
Center for Public Lands and Rural Economies (UT) .....	.....	.....	250
Center for Rural Studies (VT) .....	338	.....	338
Chesapeake Bay agroecology/pfisteria initiative (MD) .....	318	.....	318
Childhood obesity and nutrition (VT) .....	149	.....	149

COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION SERVICES [CSREES]—RESEARCH  
AND EDUCATION ACTIVITIES—Continued

[In thousands of dollars]

	2003 appropriation	2004 budget	Committee recommendation
Citrus canker (FL) .....	487	.....	.....
Citrus tristeza (CA) .....	720	.....	.....
Competitiveness of agriculture products (WA) .....	676	.....	676
Computational agriculture (NY) .....	248	.....	.....
Cool season legume research (ID, WA, ND) .....	334	.....	600
Cotton fiber quality (GA) .....	397	.....	397
Council for Agriculture Science and Technology .....	.....	.....	150
Cranberry/blueberry (MA) .....	171	.....	171
Cranberry/blueberry disease and breeding (NJ) .....	234	.....	234
Crop diversification (MO) .....	795	.....	397
Crop integration and production (SD) .....	273	.....	300
Crop pathogens (NC) .....	199	.....	199
Dairy and meat goat research (TX) .....	63	.....	63
Dairy farm profitability (PA) .....	497	.....	497
Delta rural revitalization (MS) .....	204	.....	204
Designing foods for health (TX) .....	820	.....	820
Diaprepes/root weevil (FL) .....	447	.....	.....
Dietary intervention (OH) .....	248	.....	.....
Drought mitigation (NE) .....	224	.....	224
Drought management (UT) .....	.....	.....	750
Efficient irrigation (NM, TX) .....	1,490	.....	1,490
Environmental biotechnology (RI) .....	596	.....	596
Environmental research (NY) .....	392	.....	.....
Environmental risk factors/cancer (NY) .....	221	.....	.....
Environmentally-safe products (VT) .....	243	.....	243
Ethnobotany research (AK) .....	.....	.....	300
Exotic pest diseases (CA) .....	1,888	.....	2,000
Expanded wheat pasture (OK) .....	308	.....	277
Farm injuries and illnesses (NC) .....	276	.....	138
Feed barley for rangeland cattle (MT) .....	828	.....	828
Feed efficiency in cattle (FL) .....	248	.....	.....
Feedstock conversion (SD) .....	556	.....	750
Fish and shellfish technologies (VA) .....	462	.....	415
Floriculture (HI) .....	397	.....	397
Food chain economic analysis (IA) .....	50	.....	250
Food and Agriculture Policy Research Institute (IA, MO) .....	1,515	.....	1,515
Food irradiation (IA) .....	243	.....	.....
Food Marketing Policy Center (CT) .....	487	.....	487
Food processing center (NE) .....	42	.....	.....
Food quality (AK) .....	348	.....	350
Food safety (AL) .....	1,118	.....	1,118
Food safety (OK) .....	621	.....	558
Food safety (TX) .....	199	.....	199
Food safety research consortium (NY) .....	894	.....	.....
Food safety risk assessment (ND) .....	1,341	.....	1,650
Food security (WA) .....	447	.....	402
Food Systems Research Group (WI) .....	546	.....	550
Forages for advancing livestock production (KY) .....	431	.....	431
Forestry (AR) .....	509	.....	458
Functional genomics (UT) .....	.....	.....	1,500
Future foods (IL) .....	248	.....	300
Generic commodity promotions, research, and evaluation (NY) ..	194	.....	.....
Genomics (MS) .....	715	.....	715
Global change/ultraviolet radiation .....	2,235	2,500	2,235
Grain sorghum (KS) .....	139	.....	139
Grapefruit juice/drug interaction (FL) .....	248	.....	.....
Grass seed cropping systems for sustainable agriculture (ID, OR, WA) .....	454	.....	408
Grazing research (WI) .....	.....	.....	250
Greenhouse nurseries (OH) .....	149	.....	.....
Greenhouse crop production (AK) .....	.....	.....	500

COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION SERVICES [CSREES]—RESEARCH  
AND EDUCATION ACTIVITIES—Continued

[In thousands of dollars]

	2003 appropriation	2004 budget	Committee recommendation
Hispanic leadership in agriculture (TX) .....	447	.....	.....
Hoop barns (IA) .....	209	.....	325
Horn fly research (AL) .....	.....	.....	150
Human nutrition (IA) .....	727	.....	732
Human nutrition (LA) .....	795	.....	715
Human nutrition (NY) .....	611	.....	.....
Hydroponic tomato production (OH) .....	99	.....	.....
Improved dairy management practices (PA) .....	397	.....	397
Improved early detection of crop disease (NC) .....	193	.....	.....
Improved fruit practices (MI) .....	237	.....	213
Increasing shelf life of agricultural commodities (ID) .....	790	.....	790
Infectious disease research (CO) .....	745	.....	745
Institute for biobased products and food science (MT) .....	596	.....	596
Institute for Food Science and Engineering (AR) .....	1,214	.....	1,214
Integrated production systems (OK) .....	231	.....	207
Intelligent quality sensor for food safety (ND) .....	358	.....	.....
International arid lands consortium .....	514	.....	650
Iowa Biotechnology Consortium .....	1,754	.....	1,765
Leopold Center hypoxia project .....	.....	.....	250
Livestock and dairy policy (NY, TX) .....	600	.....	540
Waste .....	.....	.....	150
Livestock genome sequencing (IL) .....	447	.....	.....
Livestock waste (IA) .....	.....	.....	300
Lowbush blueberry research (ME) .....	263	.....	263
Maple research (VT) .....	149	.....	149
Meadowfoam (OR) .....	293	.....	219
Michigan biotechnology consortium .....	624	.....	468
Midwest Advanced Food Manufacturing Alliance (NE) .....	477	.....	429
Midwest agricultural products (IA) .....	628	.....	646
Midwest poultry consortium (IA) .....	695	.....	700
Milk safety (PA) .....	745	.....	745
Minor use animal drugs (IR-4) .....	584	588	588
Molluscan shellfish (OR) .....	392	.....	284
Montana sheep institute (MT) .....	556	.....	556
Missouri Alliance for Biotechnology .....	1,206	.....	603
Multi-commodity research (OR) .....	397	.....	297
Multi-cropping strategies for aquaculture (HI) .....	123	.....	123
National beef cattle genetic evaluation consortium (NY, CO) .....	668	.....	668
National biological impact assessment program .....	251	253	251
National Center for Soybean Technology (MO) .....	.....	.....	1,000
Nematode resistance genetic engineering (NM) .....	146	.....	146
Nevada arid rangelands initiative (NV) .....	522	.....	522
New crop opportunities (AK) .....	487	.....	500
New crop opportunities (KY) .....	737	.....	737
Non-food uses of agricultural products (NE) .....	64	.....	.....
Nursery, greenhouse, and turf specialties (AL) .....	308	.....	285
Oil resources from desert plants (NM) .....	224	.....	224
Olive Fly (CA) .....	40	.....	.....
Organic cropping (WA) .....	124	.....	250
Organic waste utilization (NM) .....	99	.....	99
Oyster post harvest treatment (FL) .....	447	.....	.....
Ozone air quality (CA) .....	427	.....	427
Pasture and forage research (UT) .....	246	.....	250
Peach tree short life (SC) .....	260	.....	260
Perennial wheat (WA) .....	149	.....	.....
Pest control alternatives (SC) .....	303	.....	303
Phytophthora root rot (NM) .....	184	.....	184
Pierce's disease (CA) .....	2,235	.....	2,250
Plant biotechnology (IA) .....	248	.....	.....
Plant, drought, and disease resistance gene cataloging (NM) .....	245	.....	245
Potato research .....	1,574	.....	1,416

COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION SERVICES [CSREES]—RESEARCH  
AND EDUCATION ACTIVITIES—Continued

[In thousands of dollars]

	2003 appropriation	2004 budget	Committee recommendation
Precision agriculture (KY) .....	737	.....	737
Preharvest food safety (KS) .....	207	.....	207
Preservation and processing research (OK) .....	223	.....	200
Protein utilization (IA) .....	422	.....	750
Rangeland ecosystems (NM) .....	318	.....	318
Regional barley gene mapping project .....	755	.....	679
Regionalized implications of farm programs (MO,TX) .....	318	.....	286
Rice Agronomy (MO) .....	199	.....	.....
Ruminant nutrition consortium (MT, ND, SD, WY) .....	447	.....	500
Rural Development Centers (ND, LA) .....	176	.....	132
Rural obesity (NY) .....	199	.....	.....
Rural Policies Research Institute (NE, IA, MO) .....	1,262	.....	1,262
Russian wheat aphid (CO) .....	318	.....	318
Satsuma mandarin orange research (AL) .....	894	.....	.....
Seafood and aquaculture harvesting, processing, and mar- keting (MS) .....	301	.....	301
Seafood harvesting, processing, and marketing (AK) .....	1,192	.....	1,192
Seafood safety (MA) .....	422	.....	422
Seed research (AK) .....	323	.....	400
Seed technology (SD) .....	.....	.....	350
Small fruit research (OR, WA, ID) .....	397	.....	397
Soil and environmental quality (DE) .....	129	.....	129
Southwest consortium for plant genetics and water resources ..	389	.....	389
Soybean cyst nematode (MO) .....	688	.....	.....
Soybean research (IL) .....	844	.....	844
STEEP III—water quality in Pacific Northwest .....	666	.....	666
Sudden oak death (CA) .....	99	.....	99
Sustainable agriculture (CA) .....	497	.....	.....
Sustainable agriculture (MI) .....	432	.....	432
Sustainable agriculture and natural resources (PA) .....	149	.....	149
Sustainable agriculture systems (NE) .....	59	.....	.....
Sustainable beef supply (MT) .....	994	.....	994
Sustainable engineered materials from renewable resources (VA) .....	596	.....	596
Sustainable pest management for dryland wheat (MT) .....	449	.....	449
Swine waste management (NC) .....	492	.....	492
Synthetic gene technology (OH) .....	167	.....	.....
Technological development of renewable resources (MO) .....	295	.....	.....
Tick borne disease prevention (RI) .....	99	.....	99
Tillage, silviculture, and waste management (LA) .....	422	.....	379
Tropical aquaculture (FL) .....	238	.....	.....
Tropical and subtropical research/T STAR .....	8,942	.....	4,471
Tri-State joint peanut research (AL) .....	596	.....	596
Uniform farm management program (MN) .....	298	.....	298
Value-added product development from agricultural resources (MT) .....	409	.....	409
Value-added products (IL) .....	149	.....	.....
Virtual plant database enhancement project (MO) .....	.....	.....	750
Viticulture consortium (NY, CA, PA) .....	1,788	.....	1,788
Water conservation (KS) .....	78	.....	79
Water treatment (RI) .....	149	.....	.....
Water use efficiency and water quality enhancement (GA) .....	536	.....	482
Weed control (ND) .....	432	.....	432
West Nile virus (IL) .....	373	.....	750
Wetland plants (LA) .....	596	.....	336
Wheat genetic research (KS) .....	263	.....	263
Wheat sawfly research (MT) .....	502	.....	502
Wood utilization (AK, OR, MS, MN, NC, ME, MI, ID, TN, WV) .....	6,130	.....	6,786
Wool research (TX, MT, WY) .....	292	.....	292

COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION SERVICES [CSREES]—RESEARCH  
AND EDUCATION ACTIVITIES—Continued

[In thousands of dollars]

	2003 appropriation	2004 budget	Committee recommendation
Total, special research grants .....	111,534	3,341	101,637
Improved pest control:			
Expert IPM decision support system .....	176	177	176
Integrated pest management .....	2,707	2,725	2,707
IR-4 minor crop pest management .....	10,673	10,485	10,485
Pest management alternatives .....	1,608	1,619	1,608
Total, Improved pest control .....	15,164	15,006	14,976
National Research Initiative .....	166,045	200,000	180,000
Animal health and disease (sec. 1433) .....	5,065	5,098	5,065
Alternative crops .....	1,188	.....	840
Critical Agricultural Materials Act .....	1,242	.....	1,242
1994 Institutions research program .....	1,093	998	1,093
Joe Skeen Institute for Rangeland Management (NM,TX,MT) .....	993	.....	1,000
Institution challenge grants .....	4,888	5,500	4,888
Graduate fellowships grants .....	3,222	4,500	3,222
Multicultural scholars program .....	992	998	992
Hispanic education partnership grants .....	4,073	3,492	4,073
Capacity building grants (1890 Institutions) .....	11,404	9,479	11,404
Payments to the 1994 Institutions .....	1,689	2,250	1,689
Alaska Native-serving and Native Hawaiian-serving Institutions edu- cation grants .....	3,477	2,997	3,500
Secondary agriculture education .....	994	1,000	994
Sustainable agriculture research and education/SARE .....	13,661	9,230	13,661
Aquaculture centers (sec. 1475) .....	4,471	3,996	4,471
Federal administration:			
Agriculture-based industrial lubricants (IA) .....	447	.....	450
Agriculture development in the American Pacific .....	548	.....	548
Agriculture waste utilization (WV) .....	686	.....	690
Agriculture water policy (GA) .....	710	.....	710
Alternative fuels characterization laboratory (ND) .....	300	.....	300
Animal waste management (OK) .....	333	.....	299
Aquaculture (OH) .....	447	.....	447
Aquaculture (PA) .....	248	.....	248
Biotechnology (MS) .....	745	.....	745
Botanical research (UT) .....	636	.....	886
Center for Agricultural and Rural Development (IA) .....	671	.....	250
Center for Food Industry Excellence (TX) .....	248	.....	.....
Center for innovative food technology (OH) .....	760	.....	.....
Center for North American studies (TX) .....	199	.....	199
Climate forecasting (FL) .....	894	.....	.....
Cotton research (TX) .....	1,182	.....	1,182
Data information system .....	2,732	2,750	2,732
Electronic grants administration system .....	2,235	2,173	2,173
FECA surcharge .....	.....	51	.....
Feed efficiency (WV) .....	159	.....	160
Fruit and vegetable market analysis (AZ, MO) .....	338	.....	.....
Geographic information system .....	1,391	.....	1,600
Germplasm development in forage grasses (OH) .....	99	.....	.....
High value horticultural crops (VA) .....	248	.....	248
Information technology (GA) .....	248	.....	.....
Livestock marketing information center (CO) .....	195	.....	195
Mariculture (NC) .....	358	.....	322
Mississippi Valley State University .....	1,043	.....	1,043
Office of Extramural Programs .....	445	448	445
Pasteurization of shell eggs .....	248	.....	.....
Pay costs and FERS .....	2,081	2,540	2,540
Peer panels .....	347	349	349
Phytoremediation plant research (OH) .....	636	.....	636

COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION SERVICES [CSREES]—RESEARCH  
AND EDUCATION ACTIVITIES—Continued

[In thousands of dollars]

	2003 appropriation	2004 budget	Committee recommendation
PM-10 air quality study (WA) .....	435	.....	435
Precision agriculture/Tennessee Valley Research and Extension Center (AL) .....	477	.....	650
Produce pricing (AZ) .....	79	.....	.....
Rural systems (MS) .....	348	.....	348
Salmon quality standards (AK) .....	139	.....	150
Shrimp aquaculture (AZ, HI, LA, MA, MS, SC, TX) .....	4,187	.....	4,187
Sustainable agriculture development (OH) .....	497	.....	.....
The Land Institute (KS) .....	.....	.....	100
Urban silviculture (NY) .....	239	.....	.....
Vitis gene discovery (MO) .....	.....	.....	400
Water pollutants (WV) .....	596	.....	600
Water quality (ND) .....	431	.....	431
Wetland plants (WV) .....	179	.....	.....
Total, federal administration .....	29,466	8,311	26,698
Total, CSREES R&E .....	616,792	514,228	617,575

*Hatch Act.*—The Committee acknowledges the beneficial impact Hatch Act funding has on land-grant universities. Hatch Act provides the base funds necessary for higher education and research involving agriculture. The Committee recommends a funding level of \$178,977,000 for payments made under the Hatch Act.

*Special Research Grants Under Public Law 89-106.*—The Committee recommends a total of \$100,486,000. Specifics of individual grant allowances are included in the table above. Special items are discussed below.

The Committee is aware of the need for special research grants in order to conduct research to facilitate or expand promising breakthroughs in areas of food and agricultural sciences that are awarded on a discretionary basis. In addition to these grants, the Committee believes research should be supplemented by additional funding that is obtained on a competitive basis.

*Alternative Milk Policies.*—The Committee that directs that of funds made available to the Food and Agriculture Policy Research Institute, \$250,000 shall be provided for collaborative work between the University of Missouri and the University of Wisconsin/Madison, for an analysis of dairy policy changes, including trade related matters, and assist Congress in making policy decisions. This project will be a one-stop shop for Congressional requests for analysis of alternative dairy policies.

*Aquaculture Centers.*—The Committee recommends \$4,471,000, the same as the fiscal year 2003 level.

The Committee is aware of and supports aquaculture research efforts at the University of Wisconsin-Milwaukee Great Lakes Wisconsin Aquatic Technology and Environmental Research Institute that is carried out in collaboration with the North Central Regional Aquaculture Center.

*Technology Transfer.*—The Committee directs CSREES to continue to support at the fiscal year 2003 level the cotton technology transfer coordinator at Stoneville, MS.



*Aquaculture (MS).*—Of the \$582,000 provided for this grant, the Committee recommends at least \$90,000 for continued studies of the use of acoustics in aquaculture research to be conducted by the National Center for Physical Acoustics in cooperation with the Mississippi Agricultural and Forestry Experiment Station [MAFES] and the Delta Research and Extension Center in Stoneville.

*Future Foods Initiative.*—The Committee has provided \$300,000 for the Future Foods Initiative at the University of Illinois, Urbana-Champaign. The Committee expects the University to use a portion of the funds for research and programs associated with the World Food and Health Center.

*International Arid Lands Consortium.*—The Committee has provided an additional \$136,000 for the International Arid Lands Consortium for a joint initiative with Hands Together to implement a water development plan, for drinking and irrigation water, in the Artibonite region of Haiti.

*Midwest Agricultural Products [MATRIC].*—The Committee directs the Department to allocate the designated funds for MATRIC equally between Iowa State University and the Greater Des Moines Partnership.

*Potato Research.*—The Committee expects the Department to ensure that funds provided to CSREES for potato research are utilized for varietal development testing. Further, these funds are to be awarded competitively after review by the potato industry working group.

*Wood Utilization Research.*—The Committee recommends \$6,786,000 for wood utilization research. Of this amount \$500,000 is made available for the Mississippi Forest and Wildlife Research Center to conduct forest inventories. In addition, of this amount, \$500,000 is made available to include West Virginia in this program.

*Competitive Research Grants.*—The Committee supports the National Research Initiative Competitive Grants Program [NRI] and provides funding of \$180,000,000 for the program, an increase of \$13,955,000 from the fiscal year 2003 level. The Committee includes a general provision to make 20 percent of these funds available for a program under the same terms and conditions as those provided in Section 401 of the Agricultural Research, Extension, and Education Reform Act of 1998.

The Committee remains determined to see that quality research and enhanced human resources development in the agricultural and related sciences be a nationwide commitment. Therefore, the Committee continues its direction that not less than 10 percent of the competitive research grant funds be used for USDA's agricultural research enhancement awards program (including USDA-EPSCoR), in accordance with 7 U.S.C. 450i.

*Alternative Crops.*—The Committee recommends \$840,000 for alternative crop research to continue and strengthen research efforts on canola, the same as the fiscal year 2003 level.

*Sustainable Agriculture.*—The Committee recommends \$13,661,000 for sustainable agriculture, the same as the fiscal year 2003 level.

*Higher Education.*—The Committee recommends \$28,837,000 for higher education. The Committee provides \$3,222,000 for graduate

fellowships; \$4,888,000 for challenge grants; \$992,000 for multicultural scholarships; \$4,073,000 for grants for Hispanic education partnership grants; and \$3,500,000 for Alaska Native-serving and Native Hawaiian-serving institutions.

The Committee notes that the Department’s higher education multicultural scholars program enhances the mentoring of scholars from under-represented groups. The Committee directs the Department to ensure that Alaska Natives participate fully in this program.

*Alaska Native-Serving and Native Hawaiian-Serving Institutions Education Grants.*—The Committee provides \$3,500,000 for non-competitive grants to individual eligible institutions or consortia of eligible institutions in Alaska and in Hawaii, with grant funds to be awarded equally between Alaska and Hawaii to carry out the programs authorized in 7 U.S.C. 3242 (Section 759 of Public Law 106–78). The Committee directs the agency to fully comply with the use of grant funds as authorized.

*Federal Administration.*—The Committee provides \$26,698,000 for Federal administration. The Committee’s specific recommendations are reflected in the table above.

*Geographic Information System Program.*—The Committee recommends \$1,600,000, an increase of \$209,000 from the fiscal year 2003 level, for the Geographic Information System Program. The Committee recommends the amount provided shall be made available for program activities of entities in the same areas as in 2003 on a proportional basis. In addition, it is expected that program management costs will be kept at a minimum and any remaining funds will be distributed to the sites.

*The Land Institute.*—The Committee recognizes the goals of research to develop a variety of diverse perennial grain crops that could help prevent soil erosion and water pollution while still producing good grain yields. The Committee provides \$100,000 for Natural Systems Agriculture at The Land Institute in Salina, Kansas, for this purpose.

NATIVE AMERICAN INSTITUTIONS ENDOWMENT FUND

Appropriations, 2003 .....	\$7,054,000
Budget estimate, 2004 .....	9,000,000
Committee recommendation .....	9,000,000

The Native American Institutions Endowment Fund authorized by Public Law 103–382 provides an endowment for the 1994 land-grant institutions (31 tribally controlled colleges). This program will enhance educational opportunity for Native Americans by building educational capacity at these institutions in the areas of student recruitment and retention, curricula development, faculty preparation, instruction delivery systems, and scientific instrumentation for teaching. Beginning with 2001, income funds are also available for facility renovation, repair, construction, and maintenance. On the termination of each fiscal year, the Secretary shall withdraw the income from the endowment fund for the fiscal year, and after making adjustments for the cost of administering the endowment fund, distribute the adjusted income as follows: 60 percent of the adjusted income from these funds shall be distributed among the 1994 land-grant institutions on a pro rata basis, the

proportionate share being based on the Indian student count; and 40 percent of the adjusted income shall be distributed in equal shares to the 1994 land-grant institutions.

COMMITTEE RECOMMENDATIONS

For the Native American Institutions Endowment Fund, the Committee recommends \$9,000,000. This amount is \$1,946,000 more than the fiscal year 2003 appropriation.

EXTENSION ACTIVITIES

Appropriations, 2003 .....	\$450,520,000
Budget estimate, 2004 .....	422,268,000
Committee recommendation .....	450,084,000

Cooperative extension work was established by the Smith-Lever Act of May 8, 1914. The Department of Agriculture is authorized to provide, through the land-grant colleges, cooperative extension work that consists of the development of practical applications of research knowledge and the giving of instruction and practical demonstrations of existing or improved practices or technologies in agriculture, uses of solar energy with respect to agriculture, home economics, related subjects, and to encourage the application of such information by demonstrations, publications, through 4-H clubs, and other means to persons not in attendance or resident at the colleges.

To fulfill the requirements of the Smith-Lever Act, State and county extension offices in each State, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, American Samoa, the Northern Marianas, and Micronesia conduct educational programs to improve American agriculture and strengthen the Nation's families and communities.

COMMITTEE RECOMMENDATIONS

For extension activities of the Cooperative State Research, Education, and Extension Service, the Committee recommends an appropriation of \$450,084,000. This amount is \$436,000 less than the fiscal year 2003 appropriation. This amount does not include an increase of \$46,000 for FECA administrative charges, as requested in the budget.

The following table summarizes the Committee's recommendations for extension activities, as compared to the fiscal year 2003 and budget request levels:

COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION SERVICE [CSREES]—EXTENSION ACTIVITIES

[In thousands of dollars]

	Fiscal year 2003 enacted	Fiscal year 2004 budget	Committee recommendation
Smith Lever 3(b) and 3(c) .....	279,390	275,940	279,390
Smith Lever 3(d):			
Farm safety .....	5,489	.....	5,489
Food and nutrition education [EFNEP] .....	58,185	60,909	58,185
Indian reservation agents .....	1,983	1,996	1,983
Pest management .....	10,689	10,759	10,689
Sustainable agriculture .....	4,843	3,792	4,843

COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION SERVICE [CSREES]—EXTENSION  
ACTIVITIES—Continued  
[In thousands of dollars]

	Fiscal year 2003 enacted	Fiscal year 2004 budget	Committee recommendation
Youth at risk .....	8,426	8,481	8,426
Youth farm safety education and certification .....	496	499	496
1890 colleges and Tuskegee University .....	31,908	32,117	31,908
1890 facilities grants .....	14,903	13,500	14,903
Extension services at 1994 institutions .....	3,365	3,273	3,273
Grants to Youth Organizations .....	2,981	.....	2,981
Renewable resources extension act .....	4,516	4,093	4,516
Rural health and safety education .....	2,605	.....	2,605
Subtotal .....	429,779	415,359	429,687
Federal administration and special grants:			
Ag in the classroom .....	695	750	695
Agricultural and entrepreneurship education (WI) .....	129	.....	130
Agricultural telecommunications (NY) .....	380	.....	.....
Alabama beef connection .....	124	.....	375
Beef producers improvement (AR) .....	194	.....	174
Botanical garden initiative (IL) .....	238	.....	.....
Conservation technology transfer (WI) .....	497	.....	500
Dairy education (IA) .....	233	.....	235
Dairy industry revitalization (WI) .....	219	.....	220
Diabetes detection, prevention (WA) .....	918	.....	918
E-Commerce (MS) .....	373	.....	373
Efficient irrigation (NM/TX) .....	2,027	.....	2,027
Entrepreneurial alternatives (PA) .....	248	.....	.....
Extension specialist (MS) .....	149	.....	149
Family farm beef industry network (OH) .....	1,377	.....	.....
FECA .....	.....	46	.....
Food animal residue avoidance database/FARAD .....	795	.....	795
Food preparation and marketing (AK) .....	298	.....	300
Food product development (AK) .....	447	.....	450
General administration and pay .....	5,643	6,113	6,113
Health education leadership (KY) .....	894	.....	894
Income enhancement demonstration (OH) .....	239	.....	.....
Iowa vitality center (IA) .....	278	.....	280
National Center for Agriculture Safety (IA) .....	197	.....	250
National Wild Turkey Federation .....	.....	.....	250
Nursery production (RI) .....	248	.....	.....
Nutrition enhancement (WI) .....	.....	.....	1,000
Ohio-Israel Agriculture Initiative .....	.....	.....	600
Oquirrh Institute .....	.....	.....	300
Pilot technology transfer (WI) .....	162	.....	.....
Pilot technology transfer (OK, MS) .....	336	.....	336
Potato pest management (WI) .....	298	.....	300
Range improvement (NM) .....	243	.....	243
Resilient communities (NY) .....	124	.....	.....
Rural business enhancement (WI) .....	.....	.....	200
Rural development (AK) .....	695	.....	700
Rural development (ND) .....	99	.....	.....
Rural development (NM) .....	392	.....	392
Rural technologies (HI, WI) .....	695	.....	348
Urban horticulture (WI) .....	536	.....	650
Urban market development (NY) .....	124	.....	.....
Web-based agriculture classes (MO) .....	.....	.....	200
Wood biomass as alternative farm product (NY) .....	194	.....	.....
Subtotal, federal administration .....	20,741	6,909	20,397
Total, Extension activities .....	450,520	422,268	450,084

*Conservation Technology Transfer.*—Of the funds provided for Conservation Technology Transfer, the Committee provides \$200,000 for a nutrient management and conservation education program to meet the needs of the Wisconsin comprehensive nutrient management program in cooperation with Professional Dairy Producers of Wisconsin, Dairy Business Association, and others. In addition, the Committee provides \$300,000 for the Dairy Discovery Farm Program.

*Farm Safety.*—Of the funds recommended for farm safety, the Committee recommends a funding level of \$4,200,000 for the AgrAbility project being carried out in cooperation with the National Easter Seal Society.

*Potato Pest Management.*—Of the funds provided for Potato Pest Management, the Committee provides \$150,000 for the ongoing effort between the University of Wisconsin, World Wildlife Fund, and Wisconsin Potato and Vegetable Growers Association. The Committee also directs \$150,000 for an ongoing project with the University of Wisconsin for pesticide use reduction efforts for other commodities.

*Rural Business Enhancement.*—The Committee provides \$200,000 to the University of Wisconsin at Platteville for collaborative work with the University of Wisconsin Extension.

*Urban Horticulture.*—Of the funds provided for Urban Horticulture, the Committee directs \$200,000 for University of Wisconsin Extension activities, \$200,000 for a regional diagnostic center at Boerner Botanical Gardens, and \$250,000 for Growing Power of Milwaukee, Wisconsin.

INTEGRATED ACTIVITIES

Appropriations, 2003 .....	\$46,439,000
Budget estimate, 2004 .....	62,865,000
Committee recommendation .....	46,711,000

Section 406 of the Agricultural Research, Extension, and Education Reform Act of 1998 authorizes an integrated research, education, and extension competitive grants program. Water Quality, Food Safety, and Regional Pest Management Centers programs previously funded under Research and Education and/or Extension Activities are included under this account, as well as new programs that support integrated or multifunctional projects.

COMMITTEE RECOMMENDATIONS

For integrated activities of the Cooperative State Research, Education, and Extension Service, the Committee recommends \$46,711,000. This amount is \$272,000 more than the fiscal year 2003 level.

The following table summarizes the Committee’s recommendations for integrated activities:

COOPERATIVE STATE RESEARCH, EDUCATION, AND EXTENSION SERVICE [CSREES]—INTEGRATED  
ACTIVITIES

[In thousands of dollars]

	Fiscal year 2003 enacted	Fiscal year 2004 budget	Committee recommendation
Critical Issues—Plant & Animal Diseases .....	497	2,500	497
Crops at Risk from FQPA: Implementation .....	1,487	1,497	1,487
Food Safety .....	14,870	14,967	14,870
FQPA Risk Mitigation Program for Major Food Crop Systems .....	4,857	4,889	4,857
Homeland Security .....		16,000	
International Science & Education Grants .....	497	1,000	497
Methyl Bromide Transition Program .....	3,229	2,498	3,500
Organic Transition Program .....	2,111	499	2,111
Regional Pest Management Centers .....	4,502	4,531	4,502
Rural Development Centers .....	1,503	1,513	1,503
Water Quality .....	12,887	12,971	12,887
<b>Total .....</b>	<b>46,439</b>	<b>62,865</b>	<b>46,711</b>

OUTREACH FOR SOCIALLY DISADVANTAGED FARMERS

Appropriations, 2003 .....	\$3,470,000
Budget estimate, 2004 .....	4,003,000
Committee recommendation .....	3,470,000

This program is authorized under section 2501 of title XXV of the Food, Agriculture, Conservation, and Trade Act of 1990. Grants are made to eligible community-based organizations with demonstrated experience in providing education on other agriculturally-related services to socially disadvantaged farmers and ranchers in their area of influence. Also eligible are the 1890 land-grant colleges, Tuskegee University, Indian tribal community colleges, and Hispanic-serving postsecondary education facilities.

COMMITTEE RECOMMENDATIONS

For outreach for socially disadvantaged farmers, the Committee recommends an appropriation of \$3,470,000. This amount is the same as the fiscal year 2003 appropriation.

OFFICE OF THE UNDER SECRETARY FOR MARKETING AND  
REGULATORY PROGRAMS

Appropriations, 2003 .....	\$721,000
Budget estimate, 2004 .....	791,000
Committee recommendation .....	736,000

The Office of the Under Secretary for Marketing and Regulatory Programs provides direction and coordination in carrying out laws enacted by the Congress with respect to the Department's marketing, grading, and standardization activities related to grain; competitive marketing practices of livestock, marketing orders, and various programs; veterinary services; and plant protection and quarantine. The Office has oversight and management responsibilities for the Animal and Plant Health Inspection Service; Agricultural Marketing Service; and Grain Inspection, Packers and Stockyards Administration.