



**Conference Report to Accompany
Food and Agriculture Act of 1977
S. Rep. No. 95-418 (1977)**

Part 3 of 6

**Title XIV- National Agricultural Research,
Extension and Teaching Policy
Act of 1977 (pp. 75-116)
Title XV- Rural Development and
Conservation (pp. 116-122)**

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"(b) During the first three months of any commodity supplemental food program, or until such program reaches its projected caseload level, whichever comes first, the Secretary shall pay those administrative costs necessary to commence the program successfully: Provided, That in no event shall administrative costs paid by the Secretary for any fiscal year exceed the limitation established in subsection (a) of this section.

"(c) Administrative costs for the purposes of the commodity supplemental food program shall include, but not be limited to, expenses for information and referral, operation, monitoring, nutrition education, start-up costs, and general administration, including staff, warehouse and transportation personnel, insurance, and administration of the State or local office.

"(d) During each fiscal year the commodity supplemental food program is in operation, the types and varieties of commodities and their proportional amounts shall be determined by the Secretary, but, if the Secretary proposes to make any significant changes in the types, varieties, or proportional amounts from those that were available or were planned at the beginning of the fiscal year (or as were available during the fiscal year ending June 30, 1976, whichever is greater) the Secretary shall report such changes before implementation to the Committee on Agriculture of the House of Representatives and the Committee on Agriculture, Nutrition, and Forestry of the Senate.

"(e) The Secretary of Agriculture is authorized to issue such regulations as may be necessary to carry out the commodity supplemental food program."

TITLE XIV—NATIONAL AGRICULTURAL RESEARCH, EXTENSION, AND TEACHING POLICY ACT OF 1977

SEC. 1401. This title may be cited as the "National Agricultural Research, Extension, and Teaching Policy Act of 1977".

Subtitle A—Findings, Purposes, and Definitions

FINDINGS

SEC. 1402. Congress finds that—

(1) the Federal Government of the United States has provided funding support for agricultural research and extension for many years in order to promote and protect the general health and welfare of the people of the United States, and this support has significantly contributed to the development of the Nation's agricultural system;

(2) the agencies conducting such federally supported research were established at different times in response to different and specific needs and their work is not fully coordinated;

(3) these agencies have only been partially successful in responding to the needs of all persons affected by their research, and useful information produced through such federally supported research is not being efficiently transferred to the people of the United States;

(4) expanded agricultural research and extension are needed to meet the rising demand for food and fiber caused by increases in worldwide population and food shortages due to short-term, localized, and adverse climatic conditions;

(5) increased research is necessary to alleviate inadequacies of the marketing system (including storage, transportation, and distribution of agricultural and forest products) which have impaired United States agricultural production and utilization;

(6) advances in food and agricultural sciences and technology have become increasingly limited by the concentration upon the thorough development and exploitation of currently known scientific principles and technological approaches at the expense of more fundamental research, and a strong research effort in the basic sciences is necessary to achieve breakthroughs in knowledge that can support new and innovative food and agricultural technologies;

(7) Federal funding levels for agricultural research and extension in recent years have not been commensurate with needs stemming from changes in United States agricultural practices and the world food and agricultural situation;

(8) new Federal initiatives are needed in the areas of—

(A) research to find alternatives to technologies based on fossil fuels;

(B) research and extension on human nutrition and food consumption patterns in order to improve the health and vitality of the people of the United States;

(C) research to find solutions to environmental problems caused by technological changes in food and agricultural production;

(D) aquacultural research and extension;

(E) research and extension directed toward improving the management and use of the Nation's natural and renewable resources, in order to meet the increased demand for forest products, conserve water resources (through irrigation management, tail water reuse, desalination, crop conversion, and other water conservation techniques), conserve soil resources, and properly manage rangelands;

(F) improving and expanding the research and extension programs in home economics;

(G) extension programs in energy conservation;

(H) extension programs in forestry and natural resources, with special emphasis to be given to improving the productivity of small private woodlands, modernizing wood harvesting and utilization, developing and disseminating reliable multiple-use resource management information to all landowners and consumers, and the general public, wildlife, watershed, and recreational management, and cultural practices (including reforestation, protection, and related matters);

(I) research on climate, drought, and weather modification as factors in food and agricultural production;

(J) more intensive agricultural research and extension programs oriented to the needs of small farmers and their

families and the family farm system, which is a vital component of the agricultural production capacity of this country;

(K) research to expand export markets for agricultural commodities;

(L) development and implementation, through research, of more efficient, less wasteful, and environmentally sound methods of producing, processing, marketing, and utilizing food, fiber, waste products, other nonfood agricultural products, and forest and rangeland products;

(M) expanded programs of animal disease and health care research and extension;

(N) research to develop new crops, in order to expand our use of varied soils and increase the choice of nutritional and economically viable crops available for cultivation; and

(O) investigation and analysis of the practicability, desirability, and feasibility of using organic waste materials to improve soil tilth and fertility, and extension programs to disseminate practical information resulting from such investigations and analyses; and

(9) the existing agricultural research system consisting of the Federal Government, the land-grant colleges and universities, other colleges and universities engaged in agricultural research, the agricultural experiment stations, and the private sector constitute an essential national resource which must serve as the foundation for any further strengthening of agricultural research in the United States;

PURPOSES

SEC. 1403. *The purposes of this title are to—*

(1) establish firmly the Department of Agriculture as the lead agency in the Federal Government for the food and agricultural sciences, and to emphasize that agricultural research, extension, and teaching are distinct missions of the Department of Agriculture;

(2) undertake the special measures set forth in this title to improve the coordination and planning of agricultural research, identify needs and establish priorities for such research, assure that high priority research is given adequate funding, assure that national agricultural research, extension, and teaching objectives are fully achieved, and assure that the results of agricultural research are effectively communicated and demonstrated to farmers, processors, handlers, consumers, and all other users who can benefit therefrom;

(3) increase cooperation and coordination in the performance of agricultural research by Federal departments and agencies, the States, State agricultural experiment stations, colleges and universities, and user groups;

(4) enable the Federal Government, the States, colleges and universities, and others to implement needed agricultural research, extension, and teaching programs, including the initiatives specified in section 1402(8) of this title, through the establishment of new programs and the improvement of existing programs, as provided for in this title;

(5) *establish a new program of grants for high-priority agricultural research to be awarded on the basis of competition among scientific research workers and all colleges and universities;*

(6) *establish a new program of grants for facilities and instrumentation used in agricultural research; and*

(7) *establish a new program of education grants and fellowships to strengthen training and research programs in the food and agricultural sciences, to be awarded on the basis of competition.*

DEFINITIONS

SEC. 1404. When used in this title—

(1) *the term "Advisory Board" means the National Agricultural Research and Extension Users Advisory Board;*

(2) *the term "agricultural research" means research in the food and agricultural sciences;*

(3) *the term "aquaculture" means the propagation and rearing of aquacultural species, including, but not limited to, any species of finfish, mollusk, or crustacean (or other aquatic invertebrate), amphibian, reptile, or aquatic plant, in controlled or selected environments;*

(4) *the terms "college" and "university" mean an educational institution in any State which (A) admits as regular students only persons having a certificate of graduation from a school providing secondary education, or the recognized equivalent of such a certificate, (B) is legally authorized within such State to provide a program of education beyond secondary education, (C) provides an educational program for which a bachelor's degree or any other higher degree is awarded, (D) is a public or other nonprofit institution, and (E) is accredited by a nationally recognized accrediting agency or association;*

(5) *the term "cooperative extension services" means the organizations established at the land-grant colleges and universities under the Smith-Lever Act of May 8, 1914 (38 Stat. 372-374, as amended; 7 U.S.C. 341-349), and section 208(b) of the Act of October 26, 1974 (88 Stat. 1428; D.C. Code, sec. 31-1609);*

(6) *the term "Department of Agriculture" means the United States Department of Agriculture;*

(7) *the term "extension" means the informal education programs conducted in the States in cooperation with the Department of Agriculture;*

(8) *the term "food and agricultural sciences" means sciences relating to food and agriculture in the broadest sense, including the social, economic, and political considerations of—*

(A) agriculture, including soil and water conservation and use, the use of organic waste materials to improve soil tilth and fertility, plant and animal production and protection, and plant and animal health;

(B) the processing, distributing, marketing, and utilization of food and agricultural products;

(C) forestry, including range management, production of forest and range products, multiple use of forest and range lands, and urban forestry;

(D) aquaculture;

(E) home economics, human nutrition, and family life; and

(F) rural and community development;

(9) the term "Joint Council" means the Joint Council on Food and Agricultural Sciences;

(10) the term "land-grant colleges and universities" means those institutions eligible to receive funds under the Act of July 2, 1862 (12 Stat. 503-505, as amended; 7 U.S.C. 301-305, 307 and 308), or the Act of August 30, 1890 (26 Stat. 417-419, as amended; 7 U.S.C. 321-326 and 328), including the Tuskegee Institute;

(11) the term "Secretary" means the Secretary of Agriculture of the United States;

(12) except as provided in subtitle H of this title, the term "State" means any one of the fifty States, Puerto Rico, Guam, the District of Columbia, and the Virgin Islands of the United States;

(13) the term "State agricultural experiment stations" means those institutions eligible to receive funds under the Act of March 2, 1887 (24 Stat. 440-442, as amended; 7 U.S.C. 361a-361i); and

(14) the term "teaching" means the formal classroom and laboratory instruction and training in the food and agricultural sciences conducted at colleges and universities and leading to baccalaureate and other recognized degrees.

Subtitle B—Coordination and Planning of Agricultural Research, Extension, and Teaching

RESPONSIBILITIES OF THE SECRETARY AND DEPARTMENT OF AGRICULTURE

SEC. 1405. *The Department of Agriculture is designated as the lead agency of the Federal Government for agricultural research (except with respect to the biomedical aspects of human nutrition concerned with diagnosis or treatment of disease), extension, and teaching in the food and agricultural sciences, and the Secretary, in carrying out the Secretary's responsibilities, shall—*

(1) *establish jointly with the Secretary of Health, Education, and Welfare procedures for coordination with respect to nutrition research in areas of mutual interest;*

(2) *keep informed of developments in, and the Nation's need for, research, extension, teaching, and manpower development in the food and agricultural sciences and represent such need in deliberations within the Department of Agriculture, elsewhere within the executive branch of the United States Government, and with the several States and their designated land-grant colleges and universities, other colleges and universities, agricultural and related industries, and other interested institutions and groups;*

(3) *coordinate all agricultural research, extension, and teaching activity conducted or financed by the Department of Agriculture and, to the maximum extent practicable, by other agencies of the executive branch of the United States Government;*

(4) *take the initiative in establishing coordination of State-Federal cooperative agricultural research, extension, and teaching*

programs, funded in whole or in part by the Department of Agriculture in each State, through the administrative heads of land-grant colleges and universities and the State directors of agricultural experiment stations and cooperative extension services, and other appropriate program administrators;

(5) consult the Joint Council, Advisory Board, and other appropriate advisory committees of the Department of Agriculture in the formulation of basic policies, goals, strategies, and priorities for programs of agricultural research, extension, and teaching;

(6) report (as a part of the Department of Agriculture's annual budget submissions) to the House Committee on Agriculture, the House Committee on Appropriations, the Senate Committee on Agriculture, Nutrition, and Forestry, and the Senate Committee on Appropriations actions taken to support the recommendations of the Advisory Board;

(7) establish appropriate review procedures to assure that agricultural research projects are timely and properly reported and published and that there is no unnecessary duplication of effort or overlapping between agricultural research units;

(8) establish Federal or cooperative multidisciplinary research teams on major agricultural research problems with clearly defined leadership, budget responsibility, and research programs; and

(9) in order to promote the coordination of agricultural research of the Department of Agriculture, conduct a continuing inventory of ongoing and completed research projects being conducted within or funded by the Department.

FEDERAL SUBCOMMITTEE ON FOOD AND RENEWABLE RESOURCES

SEC. 1406. Section 401(h) of the National Science and Technology Policy, Organization, and Priorities Act of 1976 (90 Stat. 471; 42 U.S.C. 6651(h)) is amended by adding at the end thereof the following: "Among such standing subcommittees and panels of the Council shall be the Subcommittee on Food and Renewable Resources. This subcommittee shall review Federal research and development programs relevant to domestic and world food and fiber production and distribution, promote planning and coordination of this research in the Federal Government, and recommend policies and other measures concerning the food and agricultural sciences for the consideration of the Council. The subcommittee shall include, but not be limited to, representatives of each of the following departments or agencies: the Department of Agriculture, the Department of State, the Department of Defense, the Department of the Interior, the Department of Health, Education, and Welfare, the National Oceanic and Atmospheric Administration, the Energy Research and Development Administration, the National Science Foundation, the Environmental Protection Agency, and the Tennessee Valley Authority. The principal representative of the Department of Agriculture shall serve as the chairman of the subcommittee."

JOINT COUNCIL ON FOOD AND AGRICULTURAL SCIENCES

SEC. 1407. (a) The Secretary shall establish within the Department of Agriculture a committee to be known as the Joint Council on Food and Agricultural Sciences which shall have a term of five years.

(b) The Joint Council shall be composed of representatives from the Department of Agriculture and those of its agencies with significant research and extension responsibilities, the Office of Science and Technology Policy, the land-grant colleges and universities, State agricultural experiment stations, State cooperative extension services, and those colleges and universities, other public and private institutions, producers, and representatives of the public who are interested in and have a potential to contribute, as determined by the Secretary, to the formulation of national policy in the food and agricultural sciences. The Joint Council shall be jointly chaired by the Assistant Secretary of Agriculture responsible for research, extension, and teaching, and a person to be elected from among the non-Federal membership of the Joint Council.

(c) The Joint Council shall meet at least once during each three-month period. At least one meeting each year shall be a combined meeting with the Advisory Board.

(d) (1) The primary responsibility of the Joint Council shall be to foster coordination of the agricultural research, extension, and teaching activities of the Federal Government, the States, colleges and universities, and other public and private institutions and persons involved in the food and agricultural sciences.

(2) The Joint Council's responsibilities shall also be to—

(A) provide a forum for the interchange of information among the organizations represented by the members of the Joint Council that will assure improved awareness among these organizations concerning the agricultural research, extension, and teaching programs, results, and directions of each organization;

(B) analyze and evaluate the economic, environmental, and social impacts of agricultural research, extension, and teaching programs conducted in the United States and determine high priority agricultural research areas, and submit annual reports identifying such high priority research areas to the Secretary;

(C) develop and review the effectiveness of a system, for use by the Secretary, of compiling, maintaining, and disseminating information about each federally supported agricultural research or extension project and, to the maximum extent possible, information about private agricultural research and extension projects conducted by colleges and universities, foundations, contract research groups, businesses, and others. Information about private agricultural research and extension projects shall not be included in this system unless they are partially or entirely funded by the Federal Government or the organizations sponsoring the projects agree to the inclusion of information about such projects;

(D) assist the parties in developing, reviewing, and evaluating memoranda of understanding or other documents that detail the terms and conditions between the Secretary and the participants in agricultural research, extension, and teaching programs under this Act and other Acts;

(E) assist the Secretary in carrying out the responsibilities assigned to the Secretary under this title through planning and coordination efforts in the food and agricultural sciences that utilize an effective system of regional and national planning, and by the development of recommendations and reports describing current and long-range needs, priorities, and goals in the food and agricultural sciences and means to achieve these goals;

(F) develop, and review the effectiveness of, guidelines for use by the Secretary in making competitive grants under section 2(b) of the Act of August 4, 1965 (79 Stat. 431; 7 U.S.C. 450i), as amended by section 1414 of this title; and

(G) prepare and submit to the Secretary, not later than December 31 of each year, a statement of recommendations which shall include—

(i) the Joint Council's recommendations as to unified national, regional, or interstate agricultural research, extension, or teaching programs to be implemented during the following fiscal year, delineating suggested areas of responsibility for Federal and State agencies in carrying out such programs, and the overall planning, evaluation, coordination, and support necessary for such programs, and

(ii) a summary of agricultural research, extension, and teaching achievements made during, and the status of ongoing projects as of the end of, the prior fiscal year, with respect to the programs conducted by the organizations represented by the members of the Joint Council.

Minority views, if timely submitted, shall be included in the submission. The Secretary shall submit copies of the statement to the Subcommittee on Food and Renewable Resources of the Federal Coordinating Council for Science, Engineering, and Technology, and the Advisory Board.

NATIONAL AGRICULTURAL RESEARCH AND EXTENSION USERS ADVISORY BOARD

Sec. 1408. (a) The Secretary shall establish within the Department of Agriculture a board to be known as the National Agricultural Research and Extension Users Advisory Board which shall have a term of five years.

(b) The Advisory Board shall be composed of the following twenty-one members to be appointed by the Secretary—

(1) four members representing producers of agricultural commodities, forest products, and aquacultural products,

(2) four members representing consumer interests,

(3) two members representing farm suppliers and food and fiber processors,

(4) two members representing food marketing interests,

(5) two members representing environmental interests,

(6) one member engaged in rural development work,

- (7) two members engaged in human nutrition work,
- (8) one member representing animal health interests,
- (9) one member engaged in transportation of food and agricultural products to domestic or foreign markets,
- (10) one member representing labor organizations primarily concerned with the production, processing, distribution, or transportation of food and agricultural products, and
- (11) one member representing private sector organizations involved in development programs and issues in developing countries.

(c) The Advisory Board shall select a chairman and vice-chairman from its membership, at its first meeting each year, who shall serve in those positions for a term of one year.

(d) The Advisory Board shall meet at least once during each four-month period. At least one meeting each year shall be a combined meeting with the Joint Council.

(e) The Advisory Board is authorized to establish such panels as it deems appropriate to develop information, reports, advice, and recommendations for the use of the Advisory Board in meeting its responsibilities. Members of such panels may include members of the Advisory Board, Advisory Board staff members, individuals from the Department of Agriculture and other departments and agencies of the Federal Government, and individuals from the private sector who have expertise in the subject to be examined by the panel.

(f) (1) The Advisory Board shall have general responsibility for preparing independent advisory opinions on the food and agricultural sciences.

(2) The Advisory Board shall have the specific responsibilities for—

(A) reviewing the policies, plans, and goals of programs within the Department of Agriculture involving the food and agricultural sciences, and related programs in other Federal and State departments and agencies and in the colleges and universities developed by the Secretary under this title;

(B) reviewing and assessing the extent of agricultural research and extension being conducted by private foundations and businesses, and the relationships of such research and extension to federally supported agricultural research and extension;

(C) reviewing and providing consultation to the Secretary on national policies, priorities, and strategies for agricultural research and extension for both the short and long term;

(D) assessing the overall adequacy of, and making recommendations to the Secretary with regard to, the distribution of resources and the allocation of funds authorized by this title;

(E) preparing and submitting to the Secretary, not later than October 31 of each year, a statement of recommendations as to allocations of responsibilities and levels of funding among federally supported agricultural research and extension programs, which shall include a review and an assessment of the allocation of funds for agricultural research and extension made for the preceding fiscal year by the organizations represented on the Joint Council. Minority views, if timely submitted, shall be included in the submission. The Secretary shall submit copies of

the statement to the Subcommittee on Food and Renewable Resources of the Federal Coordinating Council for Science, Engineering, and Technology, and the Joint Council; and

(F) not later than March 1 of each year submitting a report on its appraisal of the President's proposed budget for the food and agricultural sciences for the fiscal year beginning in such year and the recommendations of the Secretary contained in the annual report submitted by the Secretary pursuant to the provisions of section 1410 of this title. Such report shall be submitted to the President, the House Committee on Agriculture, the House Committee on Appropriations, the Senate Committee on Agriculture, Nutrition, and Forestry, and the Senate Committee on Appropriations. The report may include the separate views of members of the Advisory Board. The first report shall be due not later than March 1, 1979.

EXISTING RESEARCH PROGRAMS

SEC. 1409. It is the intent of Congress in enacting this title to augment, coordinate, and supplement the planning, initiation, and conduct of agricultural research programs existing prior to the enactment of this title, except that it is not the intent of Congress in enacting this title to limit the authority of the Secretary of Health, Education, and Welfare under any Act which the Secretary of Health, Education, and Welfare administers.

SECRETARY'S REPORT

SEC. 1410. The Secretary shall submit to the President and Congress by February 1 of each year a report on the Nation's agricultural research, extension, and teaching activities, and such report shall include—

(1) a review covering the following three categories of activities of the Department of Agriculture with respect to agricultural research, extension, and teaching activities and the relationship of these activities to similar activities of other departments and agencies of the Federal Government, the States, colleges and universities, and the private sector—

(A) a current inventory of such activities organized by statutory authorization and budgeted outlay;

(B) a current inventory of such activities organized by field of basic and applied science; and

(C) a current inventory of such activities organized by commodity and product category;

(2) the statements of recommendations of the Joint Council developed pursuant to the provisions of section 1407(d)(2)(G) of this title and the statement of recommendations of the Advisory Board developed pursuant to the provisions of section 1408(f)(2)(E) of this title; and

(3) in the second and succeeding years, a five-year projection of national priorities with respect to agricultural research, extension, and teaching, taking into account both domestic and international needs.

LIBRARIES AND INFORMATION NETWORK

SEC. 1411. (a) It is hereby declared to be the policy of Congress that—

(1) cooperation and coordination among, and the more effective utilization of, disparate agricultural libraries and information units be facilitated;

(2) information and library needs related to agricultural research and education be effectively planned for, coordinated, and evaluated;

(3) a structure for the coordination of the agricultural libraries of colleges and universities, Department of Agriculture libraries, and their closely allied information gathering and disseminating units be established in close conjunction with private industry and other research libraries;

(4) effective access by all colleges and universities and Department of Agriculture personnel to literature and information regarding the food and agricultural sciences be provided; and

(5) programs for training in information utilization with respect to the food and agricultural sciences, including research grants for librarians, information scientists, and agricultural scientists be established or strengthened.

(b) There is hereby established within the National Agricultural Library of the Department of Agriculture a Food and Nutrition Information and Education Resources Center. Such Center shall be responsible for—

(1) assembling and collecting food and nutrition education materials, including the results of nutrition research, training methods, procedures, and other materials related to the purpose of this title;

(2) maintaining such information and materials in a library; and

(3) providing for the dissemination of such information and materials on a regular basis to State educational agencies and other interested persons.

(c) Funds are hereby authorized to be appropriated annually in such amounts as Congress may determine necessary to support the purposes of this section. The Secretary is authorized to carry out this section with existing facilities through the use of grants, contracts, or such other means as the Secretary deems appropriate and to require matching of funds. No funds appropriated to support the purposes of this section shall be used to purchase additional equipment unless specifically authorized by law subsequent to the date of enactment of this title.

SUPPORT FOR THE JOINT COUNCIL AND ADVISORY BOARD

SEC. 1412. (a) To assist the Joint Council and Advisory Board in the performance of their duties, the Secretary is authorized to appoint—

(1) not to exceed five full-time professional staff employees qualified in the food and agricultural sciences, and

(2) an executive director for such staff who shall perform such duties as the chairmen of the Joint Council and the chairman

of the Advisory Board may direct, and who shall receive compensation at a rate not in excess of the rate for GS-18 in the General Schedule set out in section 5332 of title 5 of the United States Code.

(b) The Secretary shall provide such additional clerical assistance and staff personnel as may be required to assist the Joint Council and Advisory Board in carrying out their duties.

(c) In formulating their recommendations to the Secretary, the Joint Council and Advisory Board may obtain the assistance of Department of Agriculture employees, and, to the maximum extent practicable, the assistance of employees of other Federal departments and agencies conducting related programs of agricultural research, extension, and teaching, and of appropriate representatives of colleges and universities, including State agricultural experiment stations, cooperative extension services, and other non-Federal organizations conducting significant programs in the food and agricultural sciences.

GENERAL PROVISIONS

SEC. 1413. (a) Any vacancy in the Joint Council or the Advisory Board shall not affect their powers under this title and shall be filled in the same manner as the original position.

(b) Members of the Joint Council and Advisory Board shall serve without compensation, if not otherwise officers or employees of the United States, except that they shall, while away from their homes or regular places of business in the performance of services under this title, be allowed travel expenses, including per diem in lieu of subsistence, in the same manner as persons employed intermittently in the Government service are allowed expenses under sections 5701 through 5707 of title 5 of the United States Code.

Subtitle C—Agricultural Research and Education Grants and Fellowships

PROGRAM OF COMPETITIVE, SPECIAL, AND FACILITIES GRANTS FOR AGRICULTURAL RESEARCH

SEC. 1414. Section 2 of the Act of August 4, 1965 (79 Stat. 431; 7 U.S.C. 450i), is amended to read as follows:

“SEC. 2. (a) In order to promote research in food, agriculture, and related areas, a research grants program is hereby established in the Department of Agriculture.

“(b) The Secretary of Agriculture is authorized to make competitive grants, for periods not to exceed five years, to State agricultural experiment stations, all colleges and universities, other research institutions and organizations, Federal agencies, private organizations or corporations, and individuals, for research to further the programs of the Department of Agriculture. To the greatest extent possible the Secretary shall allocate these grants to high priority research taking into consideration, when available, the determinations made by the Joint Council on Food and Agricultural Sciences identifying high priority research areas. In seeking research proposals and in perform-

ing peer review evaluations of such proposals under this subsection, the Secretary shall seek the widest participation of qualified scientists in the Federal Government, all colleges and universities, State agricultural experiment stations, and the private sector. The research grants shall be made without regard to matching funds by the recipient or recipients of such grants. There are hereby authorized to be appropriated for the purpose of carrying out the provisions of this subsection, \$25,000,000 for the fiscal year ending September 30, 1978, \$30,000,000 for the fiscal year ending September 30, 1979, \$35,000,000 for the fiscal year ending September 30, 1980, \$40,000,000 for the fiscal year ending September 30, 1981, and \$50,000,000 for the fiscal year ending September 30, 1982, and not in excess of such sums as may after the date of enactment of the Food and Agriculture Act of 1977 be authorized by law for any subsequent fiscal year.

“(c) The Secretary of Agriculture is authorized to make grants, for periods not to exceed five years in duration—

“(1) to land-grant colleges and universities, State agricultural experiment stations, and to all colleges and universities having a demonstrable capacity in food and agricultural research, as determined by the Secretary, to carry out research to facilitate or expand promising breakthroughs in areas of the food and agricultural sciences of importance to the Nation; and

“(2) to land-grant colleges and universities and State agricultural experiment stations, to facilitate or expand on-going State-Federal food and agricultural research programs that (A) promote excellence in research, (B) promote the development of regional research centers, or (C) promote the research partnership between the Department of Agriculture and such colleges and universities or State agricultural experiment stations.

These grants shall be made without regard to matching funds.

“(d) The Secretary of Agriculture shall make annual grants to support the purchase of equipment, supplies, and land, and the construction, alteration, or renovation of buildings, necessary for the conduct of food and agricultural research, to—

“(1) each State agricultural experiment station in an amount of \$100,000 or an amount which is equal to 10 per centum of the funds received by such station under the Act of March 2, 1887 (24 Stat. 440-442, as amended; 7 U.S.C. 361a-361i), and the Act of October 10, 1962 (76 Stat. 806-807, as amended; 16 U.S.C. 582a, 582a-1-582a-7), whichever is greater: Provided, That of any amount in excess of \$50,000 made available under this paragraph during any year for allotment to a State agricultural experiment station, no payment thereof shall be made in excess of the amount which the station makes available during that year for the purposes for which grants under this paragraph are made available; and

“(2) each accredited college of veterinary medicine and State agricultural experiment station which receives funds from the Federal Government for animal health research, in an amount which is equal to 10 per centum of the animal health research funds received by such college or experiment station from the Federal Government during the previous fiscal year.

Any college or State agricultural experiment station eligible for annual grants under this subsection may elect to defer the receipt of an annual grant for any fiscal year for up to five years: Provided, That the total amounts deferred may not exceed \$1,000,000. Application may be made for receipt of deferred grants at any time during the five years, subject to the matching funds requirement of this subsection and the availability of appropriations under this subsection.

“(e) Each recipient of assistance under this section shall keep such records as the Secretary of Agriculture shall, by regulation, prescribe, including records which fully disclose the amount and disposition by such recipient of the proceeds of such grants, the total cost of the project or undertaking in connection with which such funds are given or used, and the amount of that portion of the costs of the project or undertaking supplied by other sources, and such other records as will facilitate an effective audit. The Secretary of Agriculture and the Comptroller General of the United States or any of their duly authorized representatives shall have access for the purpose of audit and examination to any books, documents, papers, and records of the recipients that are pertinent to the grants received under this section.

“(f) The Secretary of Agriculture shall limit allowable overhead costs, with respect to grants awarded under this section, to those necessary to carry out the purposes of the grants.

“(g) Except as otherwise provided in subsection (b) of this section, there are hereby authorized to be appropriated such sums as are necessary to carry out the provisions of this section.

“(h) The Secretary of Agriculture is authorized to issue such rules and regulations as the Secretary deems necessary to carry out the provisions of this section.”

GRANTS TO ESTABLISH OR EXPAND SCHOOLS OF VETERINARY MEDICINE

SEC. 1415. (a) The Secretary shall conduct a program of grants to States for the purpose of meeting the costs of construction, employing faculty, acquiring equipment, and taking other action relating to the initial establishment and initial operation of schools of veterinary medicine, or the expansion of existing schools of veterinary medicine, as determined by the Secretary by regulations. This grant program shall be based on a matching formula of 50 per centum Federal and 50 per centum State funding.

(b) Except with respect to the States of Alaska and Hawaii, the Secretary shall give preference in awarding grants to States which file, with their application for funds under this section, assurances satisfactory to the Secretary that—

(1) the State has established, or has made a reasonable effort to establish, a veterinary medical training program with one or more States without colleges of veterinary medicine which consists of appropriate cooperative agreements providing for a sharing of curriculum and costs by the individual States; and

(2) the clinical training of the school to be established or expanded shall emphasize care and preventive medical programs for food-producing animals.

Notwithstanding clause (1) of this subsection, no State which the Secretary determines has made a reasonable effort to establish appropriate

cooperative agreements shall be denied a grant or otherwise prejudiced because of its failure to establish such cooperative agreements.

(c) Funds appropriated to carry out this section for any fiscal year shall be apportioned and distributed as follows:

(1) Four per centum shall be retained by the Department of Agriculture for administration, program assistance to eligible States, and program coordination.

(2) The remainder shall be apportioned and distributed by the Secretary to those States which have applied for funds under this section on such basis as the Secretary may deem appropriate: Provided, That not less than 50 per centum of such funds shall be made available to States which have accredited schools of veterinary medicine.

AMENDMENTS TO THE RESEARCH FACILITIES ACT OF 1963

SEC. 1416. The Act of July 22, 1963 (77 Stat. 90-92 as amended; 7 U.S.C. 390, 390a-390k), is amended by—

(1) amending paragraph (2) of section 3 to read as follows:

“(2) the term ‘eligible institution’ means a department established under provisions of the Act of March 2, 1887 (24 Stat. 440-442, as amended; 7 U.S.C. 361a-361i), and under the direction of a college or university established in any State in accordance with the Act of July 2, 1862 (12 Stat. 503-505, as amended; 7 U.S.C. 301-305, 307 and 308), a department otherwise established pursuant to standards prescribed by any State the purpose of which is to conduct agricultural research, the Connecticut Agricultural Experiment Station at New Haven, Connecticut, the Ohio Agricultural Experiment Station at Wooster, Ohio, and those colleges, universities, and other legal entities in each State now receiving, or which may hereafter receive, benefits under the Act of August 30, 1890 (26 Stat. 417-419, as amended; 7 U.S.C. 321-326 and 328), including the Tuskegee Institute, or the Act of October 10, 1962 (76 Stat. 806-807, as amended; 16 U.S.C. 582a-582a-1-582a-7); and”;

(2) striking out sections 4 through 12 and inserting in lieu thereof the following new sections:

“SEC. 4. (a) There are hereby authorized to be appropriated for allocation to eligible institutions under this Act to be used for the purpose set out in section 2 of this Act, \$15,000,000 for the fiscal year ending September 30, 1978, \$19,000,000 for the fiscal year ending September 30, 1979, \$23,000,000 for the fiscal year ending September 30, 1980, \$27,000,000 for the fiscal year ending September 30, 1981, and \$31,000,000 for the fiscal year ending September 30, 1982, and not in excess of such sums as may after the date of enactment of the Food and Agriculture Act of 1977 be authorized by law for any subsequent fiscal year.

“(b) (1) The first \$4,000,000 appropriated for research facilities pursuant to this section for any fiscal year shall be apportioned equally among eligible institutions.

“(2) Any amount in excess of \$4,000,000 appropriated under this section for any fiscal year shall be apportioned as follows: Each eligible institution shall be entitled to an amount which bears the same

ratio to the total amount of funds being allocated in such fiscal year under this paragraph as the amount received by such institution in the preceding fiscal year bears to the total amount received by all eligible institutions in such preceding fiscal year. The amount received by eligible institutions in the preceding fiscal year shall be determined on the basis of funds received under section 3 of the Act of March 2, 1887, section 3 of the Act of October 10, 1962, and—with respect to institutions receiving benefits under the Act of August 30, 1890, including Tuskegee Institute—on the basis of funds received under section 2 of the Act of August 4, 1965 (79 Stat. 431; 7 U.S.C. 450i), during the fiscal years ending September 30, 1977, and September 30, 1978, and on the basis of funds received under section 1445 of the Food and Agriculture Act of 1977 in subsequent years.

“(c) It shall be the duty and responsibility of the Secretary to administer the provisions of this Act under such rules and regulations as the Secretary may prescribe as necessary therefor.

“SEC. 5. As a condition for receiving funds apportioned under section 4 of this Act, each eligible institution shall submit, in such form as the Secretary may require, specific proposals for planning, acquisition, construction, repair, rehabilitation, renovation, or remodeling of buildings, laboratories, and other capital facilities including the acquisition of fixtures and equipment, including scientific instrumentation, which are to become part of such buildings. In a State having more than one eligible institution the Secretary shall devise procedures to insure that the facility proposals of the eligible institutions in such State provide for a coordinated food and agricultural research program among eligible institutions in such State.

“SEC. 6. Any unused portion of the allotment to any eligible institution for any fiscal year shall remain available at the option of such institution for payment to such institution for a period of not more than five fiscal years following the fiscal year in which such allotment is first made available.

“SEC. 7. With respect to multiple-purpose physical facilities, the segment or portion thereof which is to be utilized for food and agricultural research shall be the basis for determination of fund support under this Act.

“SEC. 8. For each fiscal year that funds are made available for allocation the Secretary shall ascertain, at the earliest practicable date during such year, the amount of the allocation to which each eligible institution is entitled and shall notify each such institution in writing promptly thereafter as to the amount of such allocation.

“SEC. 9. (a) Any eligible institution authorized to receive payments under the provisions of section 4 of this Act shall have a chief administrative officer and a duly designated fiscal officer, who shall be the persons responsible for receipt of payments under the Acts referred to in section 4(b) of this Act, to whom payments can be directed by the Secretary. Such fiscal officer shall receive and account for all funds paid to such institution pursuant to the provisions of this Act, and shall submit a report, approved by the chief administrative officer of such institution, to the Secretary on or before the first day of December of each year. Such report shall contain a detailed statement of the amount received under the provisions of this Act during the pre-

ceding fiscal year, and of its disbursements on schedules prescribed by the Secretary.

"(b) If any portion of the allotted funds received by the duly authorized fiscal officer of any eligible institution shall by any action or contingency be diminished, lost, or misapplied, it shall be repaid by the institution concerned, and until repaid no part of any subsequent appropriation shall be allocated or paid to such institution.

"SEC. 10. The Secretary shall make an annual report to Congress during the first regular session of each year with respect to (1) payments made under this Act, (2) the facilities, by institution, for which such payments were made, and (3) whether any portion of the appropriation available for allotment to any of the eligible institutions has been withheld and, if so, the reasons therefor.

"SEC. 11. Three per centum of funds appropriated under this Act shall be available to the Secretary for administration of this Act."; and

(3) striking out "the State agricultural experiment stations" each time it occurs in the title, section 1, and section 2 and inserting in lieu thereof "eligible institutions", and striking out "on a matching basis," in section 1.

GRANTS AND FELLOWSHIPS FOR FOOD AND AGRICULTURAL SCIENCES EDUCATION

SEC. 1417. (a) The Secretary shall conduct a program of competitive grants for all colleges and universities for the purpose of furthering education in the food and agricultural sciences. These grants shall be made in the following two categories:

(1) Grants to strengthen programs of training and research in the food and agricultural sciences for scientists at the graduate and postdoctoral levels at all colleges and universities. Grants in this category may be used for exploratory research by such scientists, the acquisition of instruments, equipment, and facilities for research and training and other programs and activities aimed at meeting departmental, interdepartmental, or institutionwide training and research needs, or a combination thereof. Grants shall be made on a competitive basis and may cover periods not to exceed four years. Competition for such grants shall be open to all colleges and universities in the United States which have a capacity for teaching, research, and the dissemination of research results in the food and agricultural sciences or which are establishing such programs.

(2) Grants to strengthen undergraduate programs in the food and agricultural sciences at all colleges and universities. Grants in this category may be used to support programs designed to improve such undergraduate programs through traditional or non-traditional courses, curriculums, or teaching modes. Grants shall be made on a competitive basis and may cover periods not to exceed two years. Competition for such grants shall be open to all colleges and universities or to groups of such institutions which individually or collectively have a capacity for teaching, research, and the dissemination of research results in the food and agricultural sciences or which are establishing such programs.

(b) *The Secretary shall conduct a program of predoctoral and postdoctoral fellowships in the food and agricultural sciences. These fellowships shall be made in the following two categories:*

(1) *Predocctoral fellowships, each for a period of up to four years. The purpose of these fellowships shall be to provide training and increase research capabilities in areas of need as identified by each State. These fellowships shall be awarded on the basis of merit, as determined by review panels established annually by the Secretary, to graduate students from each of the States, if the following criteria are satisfied:*

(A) *the student is enrolled in a graduate degree program in a college or university; and*

(B) *the student intends to pursue or is pursuing a course of study in the food and agricultural sciences which is directly related to an area of need as identified by the Governor or chief executive officer of the State.*

At least three such fellowships shall be awarded to students from each State in every year.

(2) *Postdoctoral fellowships, each for a period of from one to five years. The purpose of these fellowships shall be to attract highly promising investigators to research careers in the basic sciences related to agriculture and to provide stipends and research support for their training and establishment as independent investigators. In making awards under this paragraph, the Secretary shall give priority to individuals doing basic research at colleges and universities.*

(c) *Funds authorized in section 22 of the Act of June 29, 1935 (49 Stat. 439, as amended; 7 U.S.C. 329), are transferred to and shall be administered by the Secretary of Agriculture.*

(d) *There are hereby authorized to be appropriated for the purposes of carrying out the provisions of this section \$25,000,000 for the fiscal year ending September 30, 1978, \$30,000,000 for the fiscal year ending September 30, 1979, \$35,000,000 for the fiscal year ending September 30, 1980, \$40,000,000 for the fiscal year ending September 30, 1981, and \$50,000,000 for the fiscal year ending September 30, 1982, and not in excess of such sums as may after the date of enactment of this title be authorized by law for any subsequent fiscal year.*

NATIONAL AGRICULTURAL RESEARCH AWARD

SEC. 1418. (a) *The Secretary shall establish the National Agricultural Research Award for research or advanced studies in the food and agricultural sciences. Two such awards, one for each of the categories described in subsection (c) of this section, shall be made in each fiscal year.*

(b) *The awards shall not exceed \$50,000 per year for a period of not to exceed three years to support research or study by the recipient.*

(c) *Awards under this section shall be made in each fiscal year in two categories as follows:*

(1) *to a scientist in recognition of outstanding contributions to the advancement of the food and agricultural sciences; and*

(2) *to a research scientist in early career development or a graduate student, in recognition of demonstrated capability and*

promise of significant future achievement in the food and agricultural sciences.

(d) The Secretary may establish such nominating and selection committees, to consist of scientists and others, to receive nominations and make recommendations for awards under this section, as the Secretary deems appropriate.

GRANTS FOR RESEARCH ON THE PRODUCTION AND MARKETING OF ALCOHOLS AND INDUSTRIAL HYDROCARBONS FROM AGRICULTURAL COMMODITIES AND FOREST PRODUCTS, AND AGRICULTURAL CHEMICALS AND OTHER PRODUCTS FROM COAL DERIVATIVES

SEC. 1419. The Secretary shall make grants under this section to colleges and universities for the purpose of conducting research related to the production and marketing of (1) coal tar, producer gas, and other coal derivatives for the manufacture of agricultural chemicals, methanol, methyl fuel, and alcohol-blended motor fuel (such agricultural chemicals to include, but not be limited to, fertilizers, herbicides, insecticides, and pesticides), (2) alcohol made from agricultural commodities and forest products as a substitute for alcohol made from petroleum products, and (3) other industrial hydrocarbons made from agricultural commodities and forest products. There are hereby authorized to be appropriated for the purposes of carrying out the provisions of this section, \$3,000,000 for the fiscal year ending September 30, 1978, and such sums as may be necessary for the four subsequent fiscal years ending September 30, 1979, September 30, 1980, September 30, 1981, and September 30, 1982: Provided, That the total amount of such appropriations shall not exceed \$24,000,000 during the five-year period beginning October 1, 1977, and ending September 30, 1982, and not in excess of such sums as may after the date of enactment of this title be authorized by law for any subsequent fiscal year: Provided further, That not more than a total of \$3,000,000 may be awarded to the colleges and universities of any one State.

PILOT PROJECTS FOR THE PRODUCTION AND MARKETING OF INDUSTRIAL HYDROCARBONS AND ALCOHOLS FROM AGRICULTURAL COMMODITIES AND FOREST PRODUCTS

SEC. 1420. Title V of the Rural Development Act of 1972 (86 Stat. 671-674, as amended; 7 U.S.C. 2661-2668) is amended by adding at the end thereof a new section as follows:

"SEC. 509. (a) The Secretary is authorized and directed to formulate and carry out a pilot program for the production and marketing of industrial hydrocarbons derived from agricultural commodities and forest products for the purpose of stabilizing and expanding the market for such commodities and products and expanding the Nation's supply of industrial hydrocarbons.

"(b) The Secretary shall provide for four pilot projects for the production of industrial hydrocarbons and alcohols from agricultural commodities and forest products by guaranteeing loans, not to exceed \$15,000,000 per each such project, to public, private, or cooperative organizations organized for profit or nonprofit, or to individuals for

a term not to exceed twenty years at a rate of interest agreed upon by the borrower and lender.

“(c) No loan may be guaranteed under this section unless (1) research indicates the total energy content of the products and byproducts to be manufactured by the loan applicant will exceed the total energy input from fossil fuels used in the manufacture of such products and byproducts, and (2) such other conditions as the Secretary deems appropriate to achieve the purposes of this section are met.

“(d) In order to assure that the recipients of loans made under this section have a dependable supply of agricultural commodities at a stable price for use in the pilot projects provided for in this section, the Secretary is authorized to enter into long-term contracts, not exceeding five years, with the recipients of such loans. Such contracts shall guarantee the recipients of such loans a specified quantity of agricultural commodities annually at mutually agreed upon prices, but the agricultural commodities shall not be sold under any such contracts at less than the price support level prescribed for the commodity concerned unless the commodities are out of condition, unstorable, or sample-grade or lower, as prescribed in Department of Agriculture standards.

“(e) The Secretary shall supply from Commodity Credit Corporation stocks or, to such extent or in such amounts as are provided in appropriation Acts, purchase such quantities of agricultural commodities as may be necessary to comply with the terms of agreements entered into under this section.

“(f) The provisions of this section shall be carried out through the Commodity Credit Corporation.”

Subtitle D—National Food and Human Nutrition Research and Extension Program

FINDINGS AND DECLARATIONS

SEC. 1421. (a) Congress hereby finds that there is increasing evidence of a relationship between diet and many of the leading causes of death in the United States; that improved nutrition is an integral component of preventive health care; that there is a serious need for research on the chronic effects of diet on degenerative diseases and related disorders; that nutrition and health considerations are important to United States agricultural policy; that there is insufficient knowledge concerning precise human nutritional requirements, the interaction of the various nutritional constituents of food, and differences in nutritional requirements among different population groups such as infants, children, adolescents, elderly men and women, and pregnant women; and that there is a critical need for objective data concerning food safety, the potential of food enrichment, and means to encourage better nutritional practices.

(b) It is hereby declared to be the policy of the United States that the Department of Agriculture conduct research in the fields of human nutrition and the nutritive value of foods and conduct human nutrition education activities, as provided in this subtitle.

DUTIES OF THE SECRETARY OF AGRICULTURE

SEC. 1422. In order to carry out the policy of this subtitle, the Secretary shall develop and implement a national food and human nutrition research and extension program that shall include, but not be limited to—

- (1) research on human nutritional requirements;*
- (2) research on the nutrient composition of foods and the effects of agricultural practices, handling, food processing, and cooking on the nutrients they contain;*
- (3) surveillance of the nutritional benefits provided to participants in the food programs administered by the Department of Agriculture;*
- (4) research on the factors affecting food preference and habits; and*
- (5) the development of techniques and equipment to assist consumers in the home or in institutions in selecting food that supplies a nutritionally adequate diet.*

RESEARCH BY THE DEPARTMENT OF AGRICULTURE

SEC. 1423. (a) The Secretary shall establish research into food and human nutrition as a separate and distinct mission of the Department of Agriculture, and the Secretary shall increase support for such research to a level that provides resources adequate to meet the policy of this subtitle.

(b) The Secretary, in administering the food and human nutrition research program, shall periodically consult with the administrators of the other Federal departments and agencies that have responsibility for programs dealing with human food and nutrition, as to the specific research needs of those departments and agencies.

STUDY

SEC. 1424. The Secretary shall perform a study assessing the potential value and cost of establishing regional food and human nutrition research centers in the United States. This assessment shall examine the feasibility of using existing Federal facilities in establishing such centers. The Secretary shall complete this study and submit a report setting forth the findings of the study and recommendations for the implementation of these findings, as a part of the plan the Secretary is required to submit to Congress pursuant to section 1427 of this title, not later than one year after the effective date of this title.

NUTRITION EDUCATION PROGRAM

SEC. 1425. (a) The Secretary shall establish a national education program which shall include, but not be limited to, the dissemination of the results of food and human nutrition research performed or funded by the Department of Agriculture.

(b) In order to enable low-income individuals and families to engage in nutritionally sound food purchasing and preparation practices, the

expanded food and nutrition education program presently conducted under section 3(d) of the Act of May 8, 1914 (38 Stat. 373, as amended; 7 U.S.C. 343(d)), shall be expanded to provide for the employment and training of professional and paraprofessional aides to engage in direct nutrition education of low-income families and in other appropriate nutrition education programs. Funds for carrying out the provisions of this subsection shall be allocated to each State in an amount which bears the same ratio to the total amount to be allocated as the population of the State living at or below 125 per centum of the income poverty guidelines prescribed by the Office of Management and Budget (adjusted pursuant to section 625 of the Economic Opportunity Act of 1964 (86 Stat. 697, as amended; 42 U.S.C. 2971d)), bears to the total population of all the States living at or below 125 per centum of the income poverty guidelines, as determined by the last preceding decennial census at the time each such sum is first appropriated. To the maximum extent practicable, program aides shall be hired from the indigenous target population. The provisions of this subsection shall not preclude the Secretary from developing educational materials and programs for persons in income ranges above the level designated in this subsection.

NUTRITION EDUCATION MATERIALS

SEC. 1426. In order to encourage nutrition education programs in the classrooms and lunchrooms of elementary and secondary schools, the Secretary shall, in consultation with appropriate officers in the Department of Health, Education, and Welfare, develop and distribute to State departments of education a comprehensive set of educational materials on food and nutrition education which shall be appropriate for all levels of the elementary and secondary education system.

REPORT TO CONGRESS

SEC. 1427. The Secretary shall submit a comprehensive plan for implementing the national food and human nutrition research and extension program provided for by this subtitle to Congress within one year after the effective date of this title. The plan shall include, but not be limited to, recommendations relating to research direction, funding levels, needed facilities grants, and use of Federal facilities in cooperation with States and others, necessary to achieve the policy set forth in section 1421 of this title.

NUTRITIONAL STATUS MONITORING

SEC. 1428. (a) The Secretary and the Secretary of Health, Education, and Welfare shall formulate and submit to Congress, within ninety days after the date of enactment of this title, a proposal for a comprehensive nutritional status monitoring system, to include:

- (1) an assessment system consisting of periodic surveys and continuous monitoring to determine: the extent of risk of nutrition-related health problems in the United States, which population groups or areas of the country face greatest risk; and the likely causes of risk and changes in the above risk factors over time;

(2) a surveillance system to identify remediable nutrition-related health risks to individuals or for local areas, in such a manner as to tie detection to direct intervention and treatment. Such system should draw on screening and other information from other health programs, including those funded under titles V, XVIII, and XIX of the Social Security Act and section 330 of the Public Health Service Act; and

(3) program evaluations to determine the adequacy, efficiency, effectiveness, and side effects of nutrition-related programs in reducing health risks to individuals and populations.

(b) The proposal shall provide for coordination of activities under existing authorities and contain recommendations for any additional authorities necessary to achieve a comprehensive monitoring system.

Subtitle E—Animal Health and Disease Research

PURPOSE

SEC. 1429. It is the purpose of this subtitle to promote the general welfare through the improved health and productivity of domestic livestock, poultry, aquatic animals, and other income-producing animals which are essential to the Nation's food supply and the welfare of producers and consumers of animal products; to improve the health of horses; to facilitate the effective treatment of, and, where possible, prevent, animal and poultry diseases in both domesticated and wild animals which, if not controlled, would be disastrous to the United States livestock and poultry industries and endanger the Nation's food supply; to minimize livestock and poultry losses due to transportation and handling; to protect human health through control of animal diseases transmissible to humans; to improve methods of controlling the births of predators and other animals; and otherwise to promote the general welfare through expanded programs of research and extension to improve animal health. It is recognized that the total animal health and disease research and extension efforts of the several State colleges and universities and of the Federal Government would be more effective if there were close coordination between such programs, and it is further recognized that colleges and universities having accredited colleges of veterinary medicine or departments of veterinary sciences or animal pathology, and similar units conducting animal health and disease research in the State agricultural experiment stations, are especially vital in training research workers in animal health.

DEFINITIONS

SEC. 1430. When used in this subtitle—

(1) the term "eligible institution" means any college or university having an accredited college of veterinary medicine or a department of veterinary science or animal pathology, or a similar unit conducting animal health and disease research in a State agricultural experiment station;

(2) the term "dean" means the dean of a college or university which qualifies as an eligible institution;

(3) the term "director" means the director of a State agricultural experiment station which qualifies as an eligible institution;

(4) the term "Board" means the Animal Health Science Research Advisory Board; and

(5) the term "animal health research capacity" means the capacity of an eligible institution to conduct animal health and disease research, as determined by the Secretary.

AUTHORIZATION TO THE SECRETARY OF AGRICULTURE

SEC. 1431. In order to carry out the purpose of this subtitle, the Secretary is hereby authorized to cooperate with, encourage, and assist the States in carrying out programs of animal health and disease research at eligible institutions in the manner hereinafter described in this subtitle.

ANIMAL HEALTH SCIENCE RESEARCH ADVISORY BOARD

SEC. 1432. (a) The Secretary shall establish a board to be known as the Animal Health Science Research Advisory Board which shall have a term of five years, and which shall be composed of the following eleven members—

(1) a representative of the Agricultural Research Service of the Department of Agriculture,

(2) a representative of the Cooperative State Research Service of the Department of Agriculture,

(3) a representative of the Animal and Plant Health Inspection Service of the Department of Agriculture,

(4) a representative of the Bureau of Veterinary Medicine of the Food and Drug Administration of the Department of Health, Education, and Welfare, and

(5) seven members appointed by the Secretary—

(A) two persons representing accredited colleges of veterinary medicine,

(B) two persons representing State agricultural experiment stations, and

(C) three persons representing national livestock and poultry organizations.

The members shall serve without compensation, if not otherwise officers or employees of the United States, except that they shall, while away from their homes or regular places of business in the performance of services for the Board, be allowed travel expenses, including per diem in lieu of subsistence, in the same manner as persons employed intermittently in the Government service are allowed expenses under sections 5701 through 5707 of title 5 of the United States Code.

(b) The Board shall meet at the call of the Secretary, but at least once annually, to consult with and advise the Secretary with respect to the implementation of this subtitle and to recommend immediate priorities for the conduct of research programs authorized under this subtitle, under such rules and procedures for conducting business as the Secretary shall, in the Secretary's discretion, prescribe.

APPROPRIATIONS FOR CONTINUING ANIMAL HEALTH AND DISEASE RESEARCH PROGRAMS

SEC. 1433. (a) There are hereby authorized to be appropriated such funds not to exceed \$25,000,000 annually, as Congress may determine

necessary to support continuing animal health and disease research programs at eligible institutions. Funds appropriated under this section shall be used: (1) to meet expenses of conducting animal health and disease research, publishing and disseminating the results of such research, and contributing to the retirement of employees subject to the provisions of the Act of March 4, 1940 (54 Stat. 39-40, as amended; 7 U.S.C. 331); (2) for administrative planning and direction; and (3) to purchase equipment and supplies necessary for conducting such research.

(b) Funds appropriated under subsection (a) of this section for any fiscal year shall be apportioned as follows:

(1) Four per centum shall be retained by the Department of Agriculture for administration, program assistance to the eligible institutions, and program coordination.

(2) Forty-eight per centum shall be distributed among the several States in the proportion that the value of and income to producers from domestic livestock and poultry in each State bears to the total value of and income to producers from domestic livestock and poultry in all the States. The Secretary shall determine the total value of and income from domestic livestock and poultry in all the States and the proportionate value of and income from domestic livestock and poultry for each State, based on the most current inventory of all cattle, sheep, swine, horses, and poultry published by the Department of Agriculture.

(3) Forty-eight per centum shall be distributed among the several States in the proportion that the animal health research capacity of the eligible institutions in each State bears to the total animal health research capacity in all the States. The Secretary shall determine the animal health research capacity of the eligible institutions with the advice, when available, of the Board.

(c) In each State with one or more accredited colleges of veterinary medicine, the deans of the accredited college or colleges and the director of the State agricultural experiment station shall develop a comprehensive animal health and disease research program for the State based on the animal health research capacity of each eligible institution in the State, which shall be submitted to the Secretary for approval and shall be used for the allocation of funds available to the State under this section.

(d) When the amount available under this section for allotment to any State on the basis of domestic livestock and poultry values and income exceeds the amount for which the eligible institution or institutions in the State are eligible on the basis of animal health research capacity, the excess may be used, at the discretion of the Secretary, for remodeling of facilities, construction of new facilities, or increase in staffing, proportionate to the need for added research capacity.

(e) Whenever a new college of veterinary medicine is established in a State and is accredited, the Secretary, after consultation with the dean of such college and the director of the State agricultural experiment station and, where applicable, deans of other accredited colleges in the State, shall provide for the reallocation of funds available to the State pursuant to subsection (b) of this section between the new college and other eligible institutions in the State, based on the animal health research capacity of each eligible institution.

(f) *Whenever two or more States jointly establish an accredited regional college of veterinary medicine or jointly support an accredited college of veterinary medicine serving the States involved, the Secretary is authorized to make funds which are available to such States pursuant to subsection (b) (2) of this section available for such college in such amount that reflects the combined relative value of and income from domestic livestock and poultry in the cooperating States, such amount to be adjusted, as necessary, pursuant to the provisions of subsections (c) and (e) of this section.*

APPROPRIATIONS FOR RESEARCH ON NATIONAL OR REGIONAL PROBLEMS

SEC. 1434. (a) There are hereby authorized to be appropriated such funds, not to exceed \$15,000,000 annually, as Congress may determine necessary to support research on specific national or regional animal health or disease problems.

(b) Funds appropriated under this section shall be allocated by the Secretary to eligible institutions for work to be done, as mutually agreed upon between the Secretary and the eligible institution or institutions. The Secretary shall, whenever possible, consult the Board in developing plans for the use of these funds.

AVAILABILITY OF APPROPRIATED FUNDS

SEC. 1435. Funds available for allocation under the terms of this subtitle shall be paid to each State or eligible institution at such times and in such amounts as shall be determined by the Secretary. Funds shall remain available for payment of unliquidated obligations for one additional fiscal year following the year of appropriation.

WITHHOLDING OF APPROPRIATED FUNDS

SEC. 1436. If the Secretary determines that a State is not entitled to receive its allocation of the annual appropriation under section 1433 of this title because of its failure to satisfy requirements of this subtitle or regulations issued under it, the Secretary shall withhold such amount. The facts and reasons concerning the determination and withholding shall be reported to the President; and the amount involved shall be kept separate in the Treasury until the close of the next Congress. If the next Congress does not direct such sum to be paid, it shall be carried to surplus.

REQUIREMENTS FOR USE OF FUNDS

SEC. 1437. With respect to research projects on problems of animal health and disease to be performed at eligible institutions and supported with funds allocated to the States under section 1433 of this title, the dean or director of each eligible institution shall cause to be prepared and shall review proposals for such research projects, which contain data showing compliance with the purpose in section 1429 of this title and the provisions for use of funds specified in section 1433 (a) of this title, and with general guidelines for project eligibility to be provided by the Secretary with the advice, when available, of the

Board. Such research proposals that are approved by the dean or director shall be submitted to the Secretary prior to assignment of funds thereto with a brief summary showing compliance with the provisions of this subtitle and the Secretary's general guidelines.

MATCHING FUNDS

SEC. 1438. No funds in excess of \$100,000, exclusive of the funds provided for research on specific national or regional animal health and disease problems under the provisions of section 1434 of this title, shall be paid by the Federal Government to any State under this subtitle during any fiscal year in excess of the amount from non-Federal sources made available to and budgeted for expenditure by eligible institutions in the State during the same fiscal year for animal health and disease research. The Secretary is authorized to make such payments in excess of \$100,000 on the certificate of the appropriate official of the eligible institution having charge of the animal health and disease research for which such payments are to be made. If any eligible institution certified for receipt of matching funds fails to make available and budget for expenditure for animal health and disease research in any fiscal year sums at least equal to the amount for which it is certified, the difference between the Federal matching funds available and the funds made available to and budgeted for expenditure by the eligible institution shall be reapportioned by the Secretary among other eligible institutions of the same State, if there are any which qualify therefor, and, if there are none, the Secretary shall reapportion such difference among the other States.

ALLOCATIONS UNDER THIS SUBTITLE NOT SUBSTITUTIONS

SEC. 1439. The sums appropriated and allocated to States and eligible institutions under this subtitle shall be in addition to, and not in substitution for, sums appropriated or otherwise made available to such States and institutions pursuant to other provisions of law.

Subtitle F—Small Farm Research and Extension

SMALL FARM RESEARCH AND EXTENSION PROGRAMS

SEC. 1440. Section 502 of the Rural Development Act of 1972 (86 Stat. 671; 7 U.S.C. 2662) is amended by—

(1) amending subsection (c) to read as follows:

“(c) SMALL FARM RESEARCH PROGRAMS.—Small farm research programs shall consist of programs of research to develop new approaches for initiating and upgrading small farmer operations through management techniques, agricultural production techniques, farm machinery technology, new products, new marketing techniques, and small farm finance.”; and

(2) adding at the end thereof a new subsection (d) as follows:

“(d) SMALL FARM EXTENSION PROGRAMS.—Small farm extension programs shall consist of extension programs to improve operations of small farmers using, to the maximum extent practicable, paraprofessional personnel to work with small farmers on an intensive basis

to initiate and improve management techniques, agricultural production techniques, farm machinery technology, marketing techniques, and small farm finance, and to increase utilization by small farmers of existing services offered by the United States Department of Agriculture and other public and private agencies and organizations."

PROGRAM MONEYS

SEC. 1441. Section 503 of the Rural Development Act of 1972 (86 Stat. 672, as amended; 7 U.S.C. 2663) is amended by—

(1) inserting in subsection (a) a comma and the phrase "except subsections (c) and (d) of section 502," after the phrase "this title";

(2) redesignating subsections (c), (d), and (e) as (e), (f), and (g), respectively;

(3) adding new subsections (c) and (d) as follows:

"(c) There are hereby authorized to be appropriated to carry out the purposes of subsections (c) and (d) of section 502 of this title not to exceed \$20,000,000 for each of the fiscal years ending September 30, 1978, and September 30, 1979.

"(d) Such sums as Congress shall appropriate to carry out the purposes of this title pursuant to subsection (c) of this section shall be distributed by the Secretary as follows:

"(1) 4 per centum to be used by the Secretary for Federal administration;

"(2) 19 per centum to be allocated among the several States to carry out the programs authorized in subsection (c) of section 502 of this title in such amounts as determined by the Secretary; and

"(3) 77 per centum to be allocated among the several States to carry out the programs authorized in subsection (d) of section 502 of this title in such amounts as determined by the Secretary.";

and

(4) striking out in subsection (f), as redesignated by subsection (b) of this section, the word "and" after "(b)," and inserting a comma and the phrase "and (d)" after "(c)".

DEFINITION OF SMALL FARMER

SEC. 1442. Section 507 of the Rural Development Act of 1972 (86 Stat. 674; 7 U.S.C. 2667) is amended by adding at the end thereof a new subsection (c) to read as follows:

"(c) 'Small farmer' means any farmer with gross sales from farming of \$20,000 or less per year."

REPORTS

SEC. 1443. Title V of the Rural Development Act of 1972 (86 Stat. 671-674, as amended; 7 U.S.C. 2661-2668) is amended by adding at the end thereof a new section 510 to read as follows:

"REPORTS

"SEC. 510. The Secretary shall evaluate annually the effectiveness of the programs established under subsections (c) and (d) of sec-

tion 502 of this title and make a report to Congress not later than February 1 of each year on that evaluation and the operation of the programs during the preceding fiscal year.”

Subtitle G—1890 Land-Grant College Funding

EXTENSION AT 1890 LAND-GRANT COLLEGES, INCLUDING TUSKEGEE INSTITUTE

SEC. 1444. (a) There are hereby authorized to be appropriated annually such sums as Congress may determine necessary to support continuing agricultural and forestry extension at colleges eligible to receive funds under the Act of August 30, 1890 (26 Stat. 417-419, as amended; 7 U.S.C. 321-326 and 328), including Tuskegee Institute (hereinafter in this section referred to as “eligible institutions”). Beginning with the fiscal year ending September 30, 1979, there shall be appropriated under this section for each fiscal year an amount not less than 4 per centum of the total appropriations for such year under the Act of May 8, 1914 (38 Stat. 372-374, as amended; 7 U.S.C. 341-349): Provided, That the amount appropriated for the fiscal year ending September 30, 1979, shall not be less than the amount made available for the fiscal year ending September 30, 1978, to such eligible institutions under section 3(d) of the Act of May 8, 1914 (38 Stat. 373, as amended; 7 U.S.C. 343(d)). Funds appropriated under this section shall be used for expenses of conducting extension programs and activities, and for contributing to the retirement of employees subject to the provisions of the Act of March 4, 1940 (54 Stat. 39-40, as amended; 7 U.S.C. 331). No more than 20 per centum of the funds received by an institution in any fiscal year may be carried forward to the succeeding fiscal year.

(b) Beginning with the fiscal year ending September 30, 1979—

(1) any funds annually appropriated under this section up to the amount appropriated for the fiscal year ending September 30, 1978, pursuant to section 3(d) of the Act of May 8, 1914, as amended, for eligible institutions, shall be allocated among the eligible institutions in the same proportion as funds appropriated under section 3(d) of the Act of May 8, 1914, as amended, for the fiscal year ending September 30, 1978, are allocated among the eligible institutions; and

(2) any funds appropriated annually under this section in excess of an amount equal to the amount appropriated under section 3(d) of the Act of May 8, 1914, for the fiscal year ending September 30, 1978, for eligible institutions, shall be distributed as follows:

(A) A sum equal to 4 per centum of the total amount appropriated each fiscal year under this section shall be allotted to the Extension Service of the Department of Agriculture for administrative, technical, and other services, and for coordinating the extension work of the Department of Agriculture and the several States.

(B) Of the remainder, 20 per centum shall be allotted among the eligible institutions in equal proportions; 40 per centum shall be allotted among the eligible institutions in the

proportion that the rural population of the State in which each eligible institution is located bears to the total rural population of all the States in which eligible institutions are located, as determined by the last preceding decennial census; and the balance shall be allotted among the eligible institutions in the proportion that the farm population of the State in which each eligible institution is located bears to the total farm population of all the States in which the eligible institutions are located, as determined by the last preceding decennial census.

In computing the distribution of funds allocated under paragraph (2) of this subsection, the allotments to Tuskegee Institute and Alabama Agricultural and Mechanical University shall be determined as if each institution were in a separate State.

(c) The State director of the cooperative extension service and the administrative head for extension at the eligible institution in each State where an eligible institution is located shall jointly develop, by mutual agreement, a comprehensive program of extension for such State to be submitted for approval by the Secretary within one year after the date of enactment of this title.

(d) On or about the first day of October in each year after enactment of this title, the Secretary shall ascertain whether each eligible institution is entitled to receive its share of the annual appropriation for extension work under this section and the amount which it is entitled to receive. Before the funds herein provided shall become available to any eligible institution for any fiscal year, plans for the work to be carried out under this section shall be submitted by the proper officials of each institution and approved by the Secretary. Such sums shall be paid in equal quarterly payments on or about October 1, January 1, April 1, and July 1 of each year to the treasurer or other officer of the eligible institution duly authorized to receive such payments and such officer shall be required to report to the Secretary on or about the first day of December of each year a detailed statement of the amount so received during the previous fiscal year and its disbursement, on forms prescribed by the Secretary.

(e) If any portion of the moneys received by any eligible institution for the support and maintenance of extension work as provided in this section shall by any action or contingency be diminished or lost or be misapplied, it shall be replaced by such institution and until so replaced no subsequent appropriation shall be apportioned or paid to such institution. No portion of such moneys shall be applied, directly or indirectly, to the purchase, erection, preservation, or repair of any building or buildings, or the purchase or rental of land, or in college course teaching, lectures in college, or any other purpose not specified in this section. It shall be the duty of such institution, annually, on or about the first day of January, to make to the Governor of the State in which it is located a full and detailed report of its operations in extension work, including a detailed statement of receipts and expenditures from all sources for this purpose, a copy of which report shall be sent to the Secretary.

(f) If the Secretary finds that an eligible institution is not entitled to receive its share of the annual appropriation, the facts and reasons

therefor shall be reported to the President, and the amount involved shall be kept separate in the Treasury until the expiration of the next Congress in order that the institution may, if it should so desire, appeal to Congress from the determination of the Secretary. If the next Congress does not direct such sum to be paid, it shall be carried to surplus.

(g) To the extent that the official mail consists of correspondence, bulletins, and reports for furtherance of the purposes of this section, it shall be transmitted in the mails of the United States under penalty indicia: Provided, That each item shall bear such indicia as are prescribed by the Postmaster General and shall be mailed under such regulations as the Postmaster General may from time to time prescribe. Such items may be mailed from a principal place of business of each eligible institution or from an established subunit of such institution.

AGRICULTURAL RESEARCH AT 1890 LAND-GRANT COLLEGES, INCLUDING
TUSKEGEE INSTITUTE

SEC. 1445. (a) There are hereby authorized to be appropriated annually such sums as Congress may determine necessary to support continuing agricultural research at colleges eligible to receive funds under the Act of August 30, 1890 (26 Stat. 417-419, as amended; 7 U.S.C. 321-326 and 328), including Tuskegee Institute (hereinafter referred to in this section as "eligible institutions"). Beginning with the fiscal year ending September 30, 1979, there shall be appropriated under this section for each fiscal year an amount not less than 15 per centum of the total appropriations for such year under section 3 of the Act of March 2, 1887 (24 Stat. 441, as amended; 7 U.S.C. 361c): Provided, That the amount appropriated for the fiscal year ending September 30, 1979, shall not be less than the amount made available in the fiscal year ending September 30, 1978, to such eligible institutions under the Act of August 4, 1965 (79 Stat. 431, 7 U.S.C. 450i). Funds appropriated under this section shall be used for expenses of conducting agricultural research, printing, disseminating the results of such research, contributing to the retirement of employees subject to the provisions of the Act of March 4, 1940 (54 Stat. 39-40, as amended; 7 U.S.C. 331), administrative planning and direction, and purchase and rental of land and the construction, acquisition, alteration, or repair of buildings necessary for conducting agricultural research. The eligible institutions are authorized to plan and conduct agricultural research in cooperation with each other and such agencies, institutions, and individuals as may contribute to the solution of agricultural problems, and moneys appropriated pursuant to this section shall be available for paying the necessary expenses of planning, coordinating, and conducting such cooperative research.

(b) Beginning with the fiscal year ending September 30, 1979, the funds appropriated in each fiscal year under this section shall be distributed as follows:

(1) Three per centum shall be available to the Secretary for administration of this section.

(2) The remainder shall be allotted among the eligible institutions as follows:

(A) \$100,000 to each eligible institution.

(B) *Of the remaining funds, one-half in an amount which bears the same ratio to the total amount to be allotted as the rural population of the State in which the eligible institution is located bears to the total rural population of all the States in which eligible institutions are located, as determined by the last preceding decennial census; and one-half in an amount which bears the same ratio to the total amount to be allotted as the farm population of the State in which the eligible institution is located bears to the total farm population of all the States in which eligible institutions are located, as determined by the last preceding decennial census. In computing the distribution under this paragraph, the allotments to Tuskegee Institute and Alabama Agricultural and Mechanical University shall be determined as if each institution were in a separate State.*

(c) *The director of the State agricultural experiment station in each State where an eligible institution is located and the chief administrative officer specified in subsection (d) of this section in each of the eligible institutions in such State shall jointly develop, by mutual agreement, a comprehensive program of agricultural research in such State, to be submitted for approval by the Secretary within one year after the date of enactment of this title.*

(d) *Sums available for allotment to the eligible institutions under the terms of this section shall be paid to such institutions in equal quarterly payments beginning on or about the first day of October of each year upon vouchers approved by the Secretary. The President of each eligible institution shall appoint a chief administrative officer who shall be responsible for administration of the program authorized herein. Each eligible institution shall designate a treasurer or other officer who shall receive and account for all funds allotted to such institution under the provisions of this section and shall report, with the approval of the chief administrative officer, to the Secretary on or before the first day of December of each year a detailed statement of the amount received under the provisions of this section during the preceding fiscal year and its disbursement on schedules prescribed by the Secretary. If any portion of the allotted moneys received by any eligible institution shall by any action or contingency be diminished, lost, or misapplied, it shall be replaced by such institution and until so replaced no subsequent appropriation shall be allotted or paid to such institution. Funds made available to eligible institutions shall not be used for payment of negotiated overhead or indirect cost rates.*

(e) *Bulletins, reports, periodicals, reprints or articles, and other publications necessary for the dissemination of results of the research and experiments funded under this section, including lists of publications available for distribution by the eligible institutions, shall be transmitted in the mails of the United States under penalty indicia: Provided, That each publication shall bear such indicia as are prescribed by the Postmaster General and shall be mailed under such regulations as the Postmaster General may from time to time prescribe. Such publications may be mailed from the principal place of business of each eligible institution or from an established subunit of such institution.*

(f) *The Secretary shall be responsible for the proper administration of this section, and is authorized and directed to prescribe such rules*

and regulations as may be necessary to carry out its provisions. It shall be the duty of the Secretary to furnish such advice and assistance as will best promote the purposes of this section, including participation in coordination of research initiated under this section by the eligible institutions, from time to time to indicate such lines of inquiry as to the Secretary seem most important, and to encourage and assist in the establishment and maintenance of cooperation by and between the several eligible institutions, the State agricultural experiment stations, and between them and the Department of Agriculture.

(g) (1) On or before the first day of October in each year after the enactment of this title, the Secretary shall ascertain whether each eligible institution is entitled to receive its share of the annual appropriations under this section and the amount which thereupon each is entitled, respectively, to receive.

(2) Whenever it shall appear to the Secretary from the annual statement of receipts and expenditures of funds by any eligible institution that any portion of the preceding annual appropriation allotted to that institution under this section remains unexpended, such amount shall be deducted from the next succeeding annual allotment to the institution.

(3) If the Secretary withholds from any eligible institution any portion of the appropriations available for allotment, the facts and reasons therefore shall be reported to the President and the amount involved shall be kept separate in the Treasury until the close of the next Congress. If the next Congress does not direct such sum to be paid, it shall be carried to surplus.

(4) The Secretary shall make an annual report to Congress during the first regular session of each year of the receipts and expenditures and work of the eligible institutions under the provisions of this section and also whether any portion of the appropriation available for allotment to any institution has been withheld and if so the reasons therefor.

(h) Nothing in this section shall be construed to impair or modify the legal relationship existing between any of the eligible institutions and the government of the States in which they are respectively located.

Subtitle H—Solar Energy Research and Development

PART 1—EXISTING PROGRAMS

AGRICULTURAL RESEARCH

SEC. 1446. Section 1 of the Act of June 29, 1935 (49 Stat. 436, as amended; 7 U.S.C. 427), is amended by—

(1) inserting after "electricity and other forms of power;" in the third sentence the following: "research and development relating to uses of solar energy with respect to farm buildings, farm homes, and farm machinery (including equipment used to dry and cure crops and provide irrigation);"; and

(2) adding at the end thereof the following new sentence: "For purposes of this title, the term 'solar energy' means energy de-

rived from sources (other than fossil fuels) and technologies included in the Federal Non-Nuclear Energy Research and Development Act of 1974, as amended.”.

AGRICULTURAL EXTENSION

SEC. 1447. The Act of May 8, 1914 (38 Stat. 372-374, as amended; 7 U.S.C. 341-349), is amended by—

(1) inserting after “subjects relating to agriculture” in section 1 the following: “, uses of solar energy with respect to agriculture,”;

(2) adding at the end of section 1 the following new sentence: “For the purposes of this Act, the term ‘solar energy’ means energy derived from sources (other than fossil fuels) and technologies included in the Federal Non-Nuclear Energy Research and Development Act of 1974, as amended.”; and

(3) inserting after “demonstrations in agriculture” in section 2 the following: “, uses of solar energy with respect to agriculture,”.

RURAL DEVELOPMENT

SEC. 1448. (a) Section 303 of the Consolidated Farm and Rural Development Act (75 Stat. 307, as amended; 7 U.S.C. 1923) is amended by inserting “(a)” immediately before the first sentence and by adding the following new subsection:

“(b) For purposes of this subtitle—

“(1) the term ‘improving farms’ includes, but is not limited to, the acquisition and installation of any qualified non-fossil energy system in any residential structure located on a family farm; and

“(2) the term ‘qualified non-fossil energy system’ means any system that utilizes technologies to generate fuel, energy, or energy intensive products from products other than fossil fuels as included in the Federal Non-Nuclear Energy Research and Development Act of 1974, as amended, which meets such standards as may be prescribed by the Secretary, taking into consideration appropriate and available standards prescribed by the Secretary of Housing and Urban Development.”.

(b) Section 312(a) of the Consolidated Farm and Rural Development Act (75 Stat. 312, as amended; 7 U.S.C. 1942(a)) is amended by—

(1) inserting after “poultry, and farm equipment” in clause (2) the following: “(including equipment which utilizes solar energy)”;

(2) adding at the end thereof a new sentence as follows: “For the purposes of this subtitle, the term ‘solar energy’ means energy derived from sources (other than fossil fuels) and technologies included in the Federal Non-Nuclear Energy Research and Development Act of 1974, as amended.”.

PART 2—COMPETITIVE GRANTS PROGRAM

SEC. 1449. The Secretary shall carry out a program of competitive grants to persons and organizations, subject to the requirements and

conditions provided for in sections 2(e), 2(f), and 2(h) of the Act of August 4, 1965 (79 Stat. 431; 7 U.S.C. 450i), as amended by section 1414 of this title, for carrying out research and development relating to—

(1) uses of solar energy with respect to farm buildings, farm homes, and farm machinery (including, but not limited to, equipment used to dry or cure farm crops or forest products, or to provide irrigation); and

(2) uses of biomass derived from solar energy, including farm and forest products, byproducts, and residues, as substitutes for nonrenewable fuels and petrochemicals.

PART 3—INFORMATION SYSTEM AND ADVISORY COMMITTEE

SOLAR ENERGY RESEARCH INFORMATION SYSTEM

SEC. 1450. The Secretary shall, through the Cooperative State Research Service and other agencies within the Department of Agriculture which the Secretary considers appropriate, in consultation with the Energy Research and Development Administration, other appropriate United States Government agencies, the National Academy of Sciences, and private and nonprofit institutions involved in solar energy research projects, by June 1, 1978, and by June 1 in each year thereafter, make a compilation of solar energy research projects related to agriculture which are being carried out during such year by Federal, State, private, and nonprofit institutions and, where available, the results of such projects. Such compilations may include, but are not limited to, projects dealing with heating and cooling methods for farm structures and dwellings (such as greenhouses, curing barns, and livestock shelters), storage of power, operation of farm equipment (including irrigation pumps, crop dryers and curers, and electric vehicles), and the development of new technologies to be used on farms which are powered by other than fossil fuels or derivatives thereof.

ADVISORY COMMITTEE

SEC. 1451. In order to assist the Secretary in carrying out functions assigned to the Secretary under part 4 of this subtitle, the Secretary is authorized to establish an advisory committee within the Department of Agriculture or utilize an existing advisory committee, if a suitable one exists, for such purposes.

PART 4—MODEL FARMS AND DEMONSTRATION PROJECTS

MODEL FARMS

SEC. 1452. (a) In order to promote the establishment and operation of solar energy demonstration farms within each State, the Secretary shall distribute funds to carry out the activities described in subsections (b) and (c) of this section and section 1453 of this title to one or more of the following in each State: the State department of agriculture, the State cooperative extension service, the State agricultural experiment station, forestry schools eligible to receive funds under the

Act of October 10, 1962 (76 Stat. 806-807, as amended; 16 U.S.C. 582a, 582a-1—582a-7), or colleges and universities eligible to receive funds under the Act of August 30, 1890 (26 Stat. 417-419, as amended; 7 U.S.C. 321-326 and 328), including Tuskegee Institute (hereinafter in this part referred to as "eligible institutions"), in accordance with such rules and regulations as the Secretary may prescribe.

(b) The recipient or recipients in each State shall—

(1) establish at least one large model farm which—

(A) demonstrates all the solar energy projects determined by the Secretary, in consultation with the recipient or recipients, to be useful and beneficial to the State;

(B) is located in the State on land owned or operated by that State and, if practicable, on the State agricultural experiment station farm land; and

(C) includes other farming practices, such as raising livestock and crops, in order to provide a model of a farm which applies new and improved methods of agriculture through the use of solar energy as a means of heating, cooling, drying, or curing crops, and providing other farm needs;

(2) sell the products of the model farm established under paragraph (1) of this subsection and pay to the Secretary that portion of the proceeds received through each such sale as bears the same proportion to the total proceeds as the grants under this section bear to the total cost of operating the farm. The Secretary shall deposit such funds into a fund which shall be available without fiscal year limitation for use in carrying out the provisions of this part;

(3) provide tours of the model farm to farmers and other interested groups and individuals and, upon request, provide such farmers, groups, and individuals with information concerning the operation of such model farm and the demonstrations, if any, established by it under section 1453 of this title;

(4) determine the costs of energy, the income, and the total cost of the model farm; and

(5) annually compile a report concerning energy usage, income costs, operating difficulties, and farmer interest with respect to the model farm and the demonstrations, if any, established by it under section 1453 of this title, and submit the report to the Secretary along with any recommendations concerning project changes and specific needs of such farm or demonstrations.

(c) The results obtained from each model farm established under subsection (b) of this section which prove to be economically practical shall be extended to other farms in each State through the State cooperative extension service as part of its ongoing energy management and conservation education programs.

DEMONSTRATION PROJECTS

SEC. 1453. (a) During each calendar year after the first two calendar years for which eligible institutions in a State receive grants pursuant to section 1452 of this title the recipient or recipients of such grants in each State, in consultation with the Secretary, shall establish not less than ten demonstrations of solar energy projects which they shall

select from among the projects demonstrated on the model farm established in the State pursuant to section 1452 of this title. Such demonstrations shall be carried out on farms which are already operating in the State.

(b) The recipient or recipients in each State shall enter into written agreements with persons who own farms and who are willing to carry out solar energy project demonstrations under this section. Such agreements shall include the following provisions concerning solar energy projects which the owners agree to demonstrate on such farms:

(1) The owner shall carry out the projects on the farm for such period as the Secretary determines to be necessary to fairly demonstrate them.

(2) Tools, equipment, seeds, seedlings, fertilizer, equipment, and other agricultural materials and technology which are necessary to carry out the projects and which, on the date of such agreement, are not commonly being used on farms in such State, shall be provided by the recipient or recipients.

(3) During the demonstration period, the recipient or recipients, with the assistance of the Extension Service of the Department of Agriculture, shall provide the owner with technical assistance concerning such projects.

(4) During the demonstration period and for such other periods as the recipient or recipients deem necessary, the owner shall—

(A) keep a monthly record for the farm of changes, if any, in energy usage and costs, the amount of agricultural commodities produced, the costs of producing such amount, and the income derived from producing such amount, and of such other data concerning the projects as the recipient or recipients may require; and

(B) transmit to the recipient or recipients such monthly records, along with a report containing his or her findings, conclusions, and recommendations concerning the projects.

(5) During the demonstration period, the owner shall give tours of the farm to farmers and other interested groups and individuals and provide them with a summary of the costs of carrying out such projects.

(6) All right, title, and interest to any agricultural commodity produced on the farm as a result of the projects shall be in the owner.

(7) At the end of the demonstration period, the owner shall have all right, title, and interest to any materials and technology provided under paragraph (2) of this subsection.

(8) Such other provisions as the Secretary may, by rule, require.

AUTHORIZATION FOR APPROPRIATIONS

SEC. 1454. There are hereby authorized to be appropriated for distribution to eligible institutions for use in establishing model farms and solar energy project demonstrations under the provisions of this part, \$20,000,000 for the period beginning October 1, 1977, and ending September 30, 1981, and thereafter such sums as may subsequent to the date of enactment of this title be authorized by law for any subsequent fiscal year.

PART 5—REGIONAL SOLAR ENERGY RESEARCH AND DEVELOPMENT CENTERS

SEC. 1455. In order to provide for agricultural research, development, and demonstration projects having a national or regional application, the Secretary shall establish in existing Federal facilities or in cooperation with State and local government agencies, including State departments of agriculture, colleges and universities, or other qualified persons and organizations, including local nonprofit research groups, not less than three nor more than five regional solar energy research, development, and demonstration centers in the United States for the performance of agricultural research, extension work, and demonstration projects relating to use of solar energy with respect to farm buildings, farm homes, and farm machinery (including equipment used to dry and cure crops and provide irrigation), to be variously located so as to reflect the unique solar characteristics of different latitudes and climatic regions within the United States. Funds used in the operation of such regional centers may be used for the rehabilitation of existing buildings or facilities to house such centers, but may not be used for the construction or acquisition of new buildings.

PART 6—APPROPRIATIONS AND DEFINITIONS

AUTHORIZATION FOR APPROPRIATIONS

SEC. 1456. There are hereby authorized to be appropriated such funds as are necessary to carry out the provisions of parts 2, 3, and 5 of this subtitle.

DEFINITIONS

SEC. 1457. For purposes of this subtitle—

(1) the term "solar energy" means energy derived from sources (other than fossil fuels) and technologies included in the Federal Non-Nuclear Energy Research and Development Act of 1974, as amended; and

(2) the term "State" means any State of the United States, the Commonwealth of Puerto Rico, Guam, the District of Columbia, American Samoa, and the Virgin Islands of the United States.

Subtitle I—International Agricultural Research and Extension

SEC. 1458. The Secretary, subject to such coordination with other Federal officials, departments, and agencies as the President may direct, is authorized to—

(1) expand the operational coordination of the Department of Agriculture with institutions and other persons throughout the world performing agricultural research and extension activities by exchanging research materials and results with such institutions or persons and by conducting with such institutions or persons joint or coordinated research and extension on problems of significance to agriculture in the United States;

(2) assist the Agency for International Development with agricultural research and extension programs in developing countries;

(3) *work with developed countries on agricultural research and extension, including the stationing of United States scientists at national and international institutions in such countries;*

(4) *assist United States colleges and universities in strengthening their capabilities for agricultural research and extension relevant to agricultural development activities overseas; and*

(5) *further develop within the Department of Agriculture highly qualified experienced scientists who specialize in international programs, to be available for the activities described in this section.*

Subtitle J—Studies

EVALUATION OF THE EXTENSION SERVICE AND THE COOPERATIVE EXTENSION SERVICES

SEC. 1459. The Secretary shall transmit to Congress, not later than March 31, 1979, an evaluation of the economic and social consequences of the programs of the Extension Service and the cooperative extension services, including those programs relating to agricultural production and distribution, home economics, nutrition education (including the Expanded Family and Nutrition Education Program), community development, and 4-H youth programs.

WEATHER AND WATER ALLOCATION STUDY

SEC. 1460. The Secretary shall conduct a comprehensive study of the effects of changing climate and weather on crop and livestock productivity and, within twelve months after the date of the enactment of this title, submit to the President and Congress a report, together with pertinent recommendations, on this study. The study shall include—

(1) an assessment of current climate and weather conditions in the United States and the possible impact of changes in climate and weather conditions on the Nation's economy and future food and feed availability and prices;

(2) a review of Federal and State water allocation policies; and

(3) a consideration of strategies and techniques for dealing with water shortages in the United States that could occur if current climate and weather conditions continue or become more severe.

ORGANIC FARMING STUDY

SEC. 1461. The Secretary shall conduct, and, within twelve months after the date of enactment of this title, submit to the President and Congress a report containing the results of and the Secretary's recommendations concerning, an investigation and analysis of the practicability, desirability, and feasibility of collecting organic waste materials, including manure, crop and food wastes, industrial organic waste, municipal sewage sludge, logging and wood-manufacturing residues, and any other organic refuse, composting or similarly treating such materials, and transporting and placing such materials onto the land

to improve soil tilth and fertility. The analysis shall include the projected cost of such collection, transportation, and placement in accordance with sound locally approved soil and water conservation practices.

AGRICULTURAL RESEARCH FACILITIES STUDY

SEC. 1462. (a) The Secretary shall conduct a comprehensive study of the status and future needs of agricultural research facilities and, within fourteen months after the date of enactment of this title, submit to the President and Congress a report on this study.

(b) (1) The report shall cover agricultural research facilities and materials including, but not limited to, buildings and farms, laboratories, plant, seed, genetic stock, insect, virus, and animal collections, and lease and purchase items such as computers, laboratory instruments, and related equipment.

(2) The report shall include recommendations for a program to provide the United States with the most modern and efficient system of research facilities needed to advance agricultural research in all fields, and recommendations with regard to priority requirements for research instrumentation and facilities needing modernization, construction, or renovation in accordance with the requirements of State, regional, and national priority programs of research and based on the fullest utilization of human, monetary, and physical resources.

Subtitle K—Funding and Miscellaneous Provisions

AUTHORIZATION FOR APPROPRIATIONS FOR EXISTING AND CERTAIN NEW AGRICULTURAL RESEARCH PROGRAMS

SEC. 1463. (a) Notwithstanding any authorization for appropriations for agricultural research in any Act enacted prior to the date of enactment of this title, there are hereby authorized to be appropriated for the purposes of carrying out the provisions of this title, except subtitle H and sections 1416, 1417, 1419, 1420, and the competitive grants program provided for in section 1414, and except that the authorization for moneys provided under the Act of March 2, 1887 (24 Stat. 440-442, as amended; 7 U.S.C. 361a-361i), is excluded and is provided for in subsection (b) of this section, \$505,000,000 for the fiscal year ending September 30, 1978, \$575,000,000 for the fiscal year ending September 30, 1979, \$645,000,000 for the fiscal year ending September 30, 1980, \$715,000,000 for the fiscal year ending September 30, 1981, and \$780,000,000 for the fiscal year ending September 30, 1982, and not in excess of such sums as may after the date of enactment of this title be authorized by law for any subsequent fiscal year.

(b) Notwithstanding any authorization for appropriations for agricultural research at State agricultural experiment stations in any Act enacted prior to the date of enactment of this title, there are hereby authorized to be appropriated for the purpose of conducting agricultural research at State agricultural experiment stations pursuant to the Act of March 2, 1887 (24 Stat. 440-442, as amended; 7 U.S.C. 361a-361i), \$120,000,000 for the fiscal year ending September 30, 1978, \$145,000,000 for the fiscal year ending September 30, 1979,

\$170,000,000 for the fiscal year ending September 30, 1980, \$195,000,000 for the fiscal year ending September 30, 1981, and \$220,000,000 for the fiscal year ending September 30, 1982, and not in excess of such sums as may after the date of enactment of this title be authorized by law for any subsequent fiscal year.

AUTHORIZATION FOR APPROPRIATIONS FOR EXTENSION EDUCATION

SEC. 1464. Notwithstanding any authorization for appropriations for the Cooperative Extension Service in any Act enacted prior to the date of enactment of this title, there are hereby authorized to be appropriated for the purposes of carrying out the extension programs of the Department of Agriculture \$260,000,000 for the fiscal year ending September 30, 1978, \$280,000,000 for the fiscal year ending September 30, 1979, \$300,000,000 for the fiscal year ending September 30, 1980, \$320,000,000 for the fiscal year ending September 30, 1981, and \$350,000,000 for the fiscal year ending September 30, 1982, and not in excess of such sums as may after the date of enactment of this title be authorized by law for any subsequent fiscal year.

EXTENSION PROGRAMS FOR GUAM AND THE VIRGIN ISLANDS OF THE UNITED STATES

SEC. 1465. Section 3 of the Act of May 8, 1914 (38 Stat. 373, as amended; 7 U.S.C. 343), is amended by adding thereto a new subsection (e) to read as follows:

“(e) Insofar as the provisions of subsections (b) and (c) of this section, which require or permit Congress to require matching of Federal funds, apply to the Virgin Islands of the United States and Guam, such provisions shall be deemed to have been satisfied, for the fiscal years ending September 30, 1978, and September 30, 1979, only, if the amounts budgeted and available for expenditure by the Virgin Islands of the United States and Guam in such years equal the amounts budgeted and available for expenditure by the Virgin Islands of the United States and Guam in the fiscal year ending September 30, 1977.”.

AMENDMENTS TO THE HATCH ACT

SEC. 1466. (a) Section 3(c) (4) of the Act of March 2, 1887 (24 Stat. 441, as amended; 7 U.S.C. 361c(c) (4)), is hereby repealed.

(b) Section 3(c) (5) of such Act (24 Stat. 441, as amended; 7 U.S.C. 361c(c) (5)) is amended by adding at the end thereof a new sentence to read as follows: “These administrative funds may be used for transportation of scientists who are not officers or employees of the United States to research meetings convened for the purpose of assessing research opportunities or research planning.”.

PAYMENT OF FUNDS

SEC. 1467. Except as provided elsewhere in this Act or any other Act of Congress, funds available for allotment under this title shall be paid to each eligible institution or State at such times and in such amounts as shall be determined by the Secretary.

WITHHOLDING OF FUNDS

SEC. 1468. Except as provided elsewhere in this Act or any other Act of Congress, if the Secretary determines that an institution or State is not entitled to receive its allotment of an annual appropriation under any provision of this title because of a failure to satisfy requirements of this title or regulations issued under it, the Secretary shall withhold such amounts, the facts and reasons concerning the determination and withholding shall be reported to the President, and the amount involved shall be deposited in the miscellaneous receipts of the Treasury.

AUDITING, REPORTING, BOOKKEEPING, AND ADMINISTRATIVE REQUIREMENTS

SEC. 1469. Except as provided elsewhere in this Act or any other Act of Congress—

(1) assistance provided under this title shall be subject to the provisions of sections 2(e), 2(f), and 2(h) of the Act of August 4, 1965 (79 Stat. 431; 7 U.S.C. 450i), as amended by section 1414 of this title;

(2) the Secretary shall provide that each recipient of assistance under this title shall submit an annual report, at such times and on such forms as the Secretary shall prescribe, stating the accomplishments of projects (on a project-by-project basis) for which such assistance was used and accounting for the use of all such assistance. If the Secretary determines that any portion of funds made available under this title has been lost or applied in a manner inconsistent with the provisions of this title or regulations issued thereunder the recipient of such funds shall reimburse the Federal Government for the funds lost or so applied, and the Secretary shall not make available to such recipient any additional funds under this Act until the recipient has so reimbursed the Federal Government;

(3) three per centum of the appropriations shall be retained by the Secretary for the administration of the programs authorized under this title; and

(4) the Secretary shall establish appropriate criteria for grant and assistance approval and necessary regulations pertaining thereto.

RULES AND REGULATIONS

SEC. 1470. The Secretary is authorized to issue such rules and regulations as the Secretary deems necessary to carry out the provisions of this title.

TITLE XV—RURAL DEVELOPMENT AND CONSERVATION

AGRICULTURAL CONSERVATION PROGRAM

SEC. 1501. (a) Section 8 of the Soil Conservation and Domestic Allotment Act (49 Stat. 1149, as amended; 16 U.S.C. 590h) is amended by—

(1) striking out the first three sentences of subsection (b) and inserting in lieu thereof the following: "The Secretary is author-

ized to carry out the policy and purposes specified in section 7 (a) of this Act by providing financial assistance to agricultural producers for carrying out enduring conservation and environmental enhancement measures. Eligibility for financial assistance shall be based upon the existence of a conservation or environmental problem which reduces the productive capacity of the Nation's land and water resources or causes degradation of environmental quality.

"The amount of financial assistance to be provided shall be that portion of the cost of installing conservation and environmental enhancement measures which the Secretary determines is necessary. In determining the level of payment, consideration will be given to (A) the amount of expected conservation or environmental benefit accruing to society, (B) the total cost of carrying out the needed measures, (C) the degree to which appropriate conservation or pollution abatement practices will be applied in the absence of financial assistance, and (D) in order to avoid duplication of assistance, the degree to which the agricultural producer benefits from other public programs for conservation and environmental enhancement.

"The Secretary, in formulating the national program, shall take into consideration (A) the need to control erosion and sedimentation from agricultural land and to conserve the water resources on such land, (B) the need to control pollution from animal wastes, (C) the need to facilitate sound resources management systems through soil and water conservation, (D) the need to encourage voluntary compliance by agricultural producers with Federal and State requirements to solve point and nonpoint sources of pollution, (E) national priorities reflected in the National Environmental Policy Act of 1969 and other congressional and administrative actions, (F) the degree to which the measures contribute to the national objective of assuring a continuous supply of food and fiber necessary for the maintenance of a strong and healthy people and economy, and (G) the type of conservation measures needed to improve water quality in rural America.";

(2) designating as a separate paragraph that portion of the first paragraph of subsection (b) not amended by paragraph (1) of this subsection; and

(3) striking out the first three paragraphs of subsection (e) and inserting in lieu thereof the following: "Payments made by the Secretary under subsection (b) of this section to agricultural producers shall be divided among landlords, tenants, and sharecroppers in proportion to the extent such landlords, tenants, and sharecroppers contribute to the cost of carrying out the conservation or environmental enhancement measures. The maximum payment which may be made to any person shall be determined by the Secretary."

(b) Section 15 of the Soil Conservation and Domestic Allotment Act (49 Stat. 1151, as amended; 16 U.S.C. 590o) is amended by—

(1) adding at the end of the first sentence three new sentences as follows: "The amount appropriated shall be available until expended. A specified amount or percentage of the appropriation shall be designated for long-term agreements based on

farm and ranch conservation plans approved by local conservation districts, where such districts are organized. The Secretary shall distribute the funds available for financial assistance among the several States in accordance with their conservation needs, as determined by the Secretary.”; and

(2) striking out the second paragraph.

INCLUSION OF AQUACULTURE AND HUMAN NUTRITION AMONG THE BASIC
FUNCTIONS OF THE DEPARTMENT OF AGRICULTURE

SEC. 1502. (a) Section 520 of the Revised Statutes, as amended (7 U.S.C. 2201), is amended by striking out “agriculture and rural development” and inserting in lieu thereof “agriculture, rural development, aquaculture, and human nutrition”.

(b) Subsection (a) of section 526 of the Revised Statutes, as amended (7 U.S.C. 2204(a)), is amended by striking out “agriculture and rural development” and inserting in lieu thereof “agriculture, rural development, aquaculture, and human nutrition”.

AQUACULTURE LOAN AUTHORITY

SEC. 1503. (a) Section 32(e) of title III of the Bankhead-Jones Farm Tenant Act (50 Stat. 526, as amended; 7 U.S.C. 1011(e)) is amended by—

(1) inserting immediately after “land utilization” the following: “or plans for the conservation, development, and utilization of water for aquacultural purposes”; and

(2) inserting immediately before the second sentence a new sentence as follows: “As used in this subsection, the term ‘aquaculture’ means the culture or husbandry of aquatic animals or plants.”.

(b) Section 310B(a) of subtitle A of the Consolidated Farm and Rural Development Act (86 Stat. 663; 7 U.S.C. 1932(a)) is amended by—

(1) striking out the period at the end of the first sentence and inserting in lieu thereof the following: “, and the conservation, development, and utilization of water for aquaculture purposes.”; and

(2) adding at the end thereof a new sentence as follows: “As used in this subsection, the term ‘aquaculture’ means the culture or husbandry of aquatic animals or plants by private industry for commercial purposes including the culture and growing of fish by private industry for the purpose of creating or augmenting publicly owned and regulated stocks of fish.”.

DISPOSITION OF EXCESS FEDERAL PROPERTY TO RURAL FIRE FORCES

SEC. 1504. Section 402 of the Rural Development Act of 1972 (86 Stat. 670; 7 U.S.C. 2652) is amended by inserting “(a)” before the first sentence and adding at the end thereof new subsections (b) and (c) as follows:

“(b) The Secretary, with cooperation and assistance from the Administrator of the General Services Administration, shall encourage

the use of excess personal property (within the meaning of the Federal Property and Administrative Services Act of 1949) by rural fire forces receiving assistance under this title.

“(c) To promote maximum program effectiveness and economy, the Secretary shall closely coordinate the assistance provided under this title with assistance provided under other fire protection and rural development programs administered by the Secretary.”.

RURAL COMMUNITY FIRE PROTECTION PROGRAM

SEC. 1505. Section 404 of the Rural Development Act of 1972 (86 Stat. 671, as amended; 7 U.S.C. 2654) is amended by adding at the end thereof a new sentence as follows: “There is further authorized to be appropriated to carry out the provisions of this title not to exceed \$7,000,000 for each of the fiscal years ending September 30, 1978, September 30, 1979, and September 30, 1980.”.

CONGRESSIONAL APPROVAL OF WATERSHED PROTECTION AND FLOOD PREVENTION PROJECTS

SEC. 1506. The Watershed Protection and Flood Prevention Act (68 Stat. 666, as amended) is amended as follows:

(a) Section 2 (16 U.S.C. 1002) is amended by striking out “\$250,000” and inserting in lieu thereof “\$1,000,000”.

(b) Section 5(3) (16 U.S.C. 1005(3)) is amended by striking out “\$250,000” and inserting in lieu thereof “\$1,000,000”.

(c) Section 5(4) (16 U.S.C. 1005(4)) is amended by striking out “\$250,000” and inserting in lieu thereof “\$1,000,000”.

CONGRESSIONAL APPROVAL OF RESOURCE CONSERVATION AND DEVELOPMENT PROJECT LOANS

SEC. 1507. The third sentence of section 32(e) of title III of the Bankhead-Jones Farm Tenant Act (50 Stat. 525, as amended; 7 U.S.C. 1011(e)) is amended by striking out “\$250,000” and inserting in lieu thereof “\$500,000”.

WATERSHED LOAN AUTHORITY

SEC. 1508. The last sentence of section 8 of the Watershed Protection and Flood Prevention Act (70 Stat. 1090, as amended; 16 U.S.C. 1006a) is amended by striking out “five million dollars” and inserting in lieu thereof “\$10,000,000”.

MULTIYEAR SET-ASIDE

SEC. 1509. Section 1005 of the Agricultural Act of 1970, as added by the Agriculture and Consumer Protection Act of 1973 (87 Stat. 243; 16 U.S.C. 1505) is amended by—

(1) striking out “1977” and inserting in lieu thereof “1981”;

(2) striking out “1978” and inserting in lieu thereof “1982”;
and

(3) amending the fourth sentence to read as follows: “Grazing of livestock under this section shall be prohibited, except in areas of a major disaster as determined by the President if the Secretary finds there is a need therefor, as a result of such disaster.”

AUTHORITY TO MAKE DEFERRED LOAN PAYMENTS

SEC. 1510. The Consolidated Farm and Rural Development Act (75 Stat. 307, as amended) is amended as follows:

(a) Section 309 (7 U.S.C. 1929) is amended by adding in subsection (f) (3) between the words "any" and "defaulted" the words "deferred or".

(b) Section 309A (7 U.S.C. 1929a) is amended by adding in subsection (g) (3) between the words "any" and "defaulted" the words "deferred or".

CRITICAL LANDS RESOURCE CONSERVATION PROGRAM

SEC. 1511. Notwithstanding any other provision of law—

(a) The Secretary of Agriculture is authorized to formulate and carry out a program with owners and operators of land in the Great Plains area as described in section 16(b) of the Soil Conservation and Domestic Allotment Act (49 Stat. 1151, as amended; 16 U.S.C. 590p(b)) to reduce runoff, soil and water erosion, and otherwise to promote the conservation of soil and water resources in such area through the conversion of cropland from soil depleting uses to conserving uses including the production of soil conserving cover crops.

(b) To effectuate the purposes of the program, the Secretary may enter into an agreement for a two-year period with an owner or operator as described in subsection (a) whereby the owner or operator shall agree to devote to a soil conserving cover crop a specifically designated acreage of cropland on the farm up to 50 per centum of the acreage which had been planted to any soil depleting crop or crops in any of the two years preceding the date of the agreement. The agreement shall be renewable for annual periods thereafter subject to the mutual agreement of the owner or operator and the Secretary. In such agreement, the owner or operator shall agree (1) to plant a legume, or if not adapted to such area, an annual, biennial, or a perennial cover crop, as specified in the agreement; (2) to divert from production such portion of one or more crops designated by the Secretary as the Secretary determines necessary to effectuate the purpose of the program; (3) not to harvest any crop from or graze the designated acreage during the agreement period, unless the Secretary determines that it is necessary to permit grazing or harvesting in order to alleviate damage, hardship, or suffering caused by severe drought, flood, or other natural disaster, and consents to such grazing or harvesting subject to an appropriate reduction in the rate of payment; (4) to give adequate assurance, as specified by the Secretary, that the land was not acquired for the purpose of placing it in the program: Provided, That the foregoing provision shall not prohibit the continuation of an agreement by a new owner if an agreement has once been entered into under this section nor prevent an owner or operator from placing a farm in the program if the farm was acquired by the owner to replace an eligible farm from which he was displaced because of its acquisition by any Federal, State, or other agency having the right of eminent domain; (5) to forfeit all rights to further payments under the agreement and refund to the United States all payments received thereunder upon his violation of

the agreement at any stage during the time he has control of the land if the Secretary determines that such violation is of such a nature as to warrant termination of the agreement, or to make refunds or accept such payment adjustments as the Secretary may deem appropriate if the Secretary determines that the violation by the owner or operator does not warrant termination of the agreement; (6) upon transfer of his right and interest in the farm, during the agreement period, to forfeit all rights to further payments under the agreement and refund to the United States all payments received thereunder unless the transferee of any such land agrees with the Secretary to assume all obligations of the agreement; (7) not to adopt any practice specified by the Secretary in the agreement as a practice which would tend to defeat the purposes of the agreement; and (8) to such additional provisions as the Secretary determines are desirable to effectuate the purposes of the program or to facilitate the practical administration of the program, including such measures as the Secretary may deem appropriate to keep the designated acreage from eroding and free from weeds and rodents in accordance with good conservation systems.

(c) In consideration for such agreement, the Secretary shall make annual adjustment payments to the owner or operator for the period of the agreement at such rate or rates not in excess of \$30 per acre as the Secretary determines to be fair and reasonable. The Secretary may use an advertising and bid procedure in determining the lands in any area to be covered by agreements and the payment rate therefor. The Secretary and the owner or operator may agree that the annual adjustment payments for the agreement period shall be made either upon approval of the agreement or in such installments as they may agree to be desirable: Provided, That for each year any annual adjustment payment is made in advance of performance, the annual adjustment payment shall be reduced by 5 per centum.

(d) The Secretary may terminate any agreement under the program, by mutual agreement with the owner or operator, if the Secretary determines that such termination would be in the public interest, and may agree with the owner or operator to such modification of agreements as the Secretary may determine to be desirable to carry out the purposes of the program or facilitate its administration.

(e) The Secretary may, to the extent the Secretary deems it desirable, provide by appropriate regulations for preservation of cropland, crop acreage, and allotment history applicable to acreage diverted from the production of crops to establish vegetative cover for the purpose of any Federal program under which such history is used as a basis for an allotment or other limitation or for participation in such program.

(f) In carrying out the program, the Secretary shall utilize the services of local, county, and State committees established under section 8 of the Soil Conservation and Domestic Allotment Act (49 Stat. 1149, as amended; 16 U.S.C. 590h) and the technical services of the Soil Conservation Service and soil and water conservation districts.

(g) In case any producer who is entitled to any payment under the program dies, becomes incompetent, or disappears before receiving such payment, or is succeeded by another who renders or completes the required performance, the payment shall, without regard

to any other provisions of law, be made as the Secretary may determine to be fair and reasonable.

(h) The Secretary shall provide adequate safeguards to protect the interests of tenants and sharecroppers, including provision for sharing, on a fair and equitable basis, in payments under the program.

(i) The Secretary shall prescribe such regulations as the Secretary determines necessary to carry out the provisions of this section.

(j) There are hereby authorized to be appropriated for the period beginning October 1, 1977, and ending September 30, 1981, such sums as may be necessary to carry out the program provided for in this section. The Secretary is authorized to utilize the facilities, services, and authorities of the Commodity Credit Corporation in discharging the Secretary's functions and responsibilities under the program, including payment of costs of administration: Provided, That the Commodity Credit Corporation shall not make any expenditures for such purposes unless the Corporation has received funds to cover such expenditures from appropriations made to carry out this section.

TITLE XVI—FEDERAL GRAIN INSPECTION

RECORDS

SEC. 1601. Section 12(d) of the United States Grain Standards Act (90 Stat. 2832; 7 U.S.C. 87a(d)) is amended by striking out "shall, within the five-year period thereafter, maintain complete and accurate records of purchases, sales, transportation, storage, weighing, handling, treating, cleaning, drying, blending, and other processing, and official inspection and official weighing of grain," and inserting in lieu thereof the following: "shall maintain such complete and accurate records for such period of time as the Administrator may, by regulation, prescribe for the purpose of the administration and enforcement of this Act,".

SUPERVISION FEES

SEC. 1602. (a) Section 7(j) of the United States Grain Standards Act (90 Stat. 2873; 7 U.S.C. 79(j)) is amended to read as follows:

"(j) The Administrator shall, under such regulations as the Administrator may prescribe, charge and collect reasonable fees to cover the estimated cost of official inspection except when the official inspection is performed by a designated official agency or by a State under a delegation of authority. The fees authorized by this subsection shall, as nearly as practicable and after taking into consideration any proceeds from the sale of samples, cover the costs of the Service incident to its performance of official inspection services in the United States and on United States grain in Canadian ports, excluding administrative and supervisory costs. Such fees, and the proceeds from the sale of samples obtained for purposes of official inspection which become the property of the United States, shall be deposited into a fund which shall be available without fiscal year limitation for the expenses of the Service incident to providing services under this Act."

(b) Section 7A(l) of the United States Grain Standards Act (90 Stat. 2877; 7 U.S.C. 79a(l)) is amended to read as follows: