

*partial scholarships for training of individuals at training centers approved by the Secretary.*

*(B) PRIORITY.—In awarding grants under this paragraph, the Secretary shall give priority to grant applicants that provide for training within the region (or locality) of the applicant.*

*(2) GRANTS FOR TRAINING CENTERS.—*

*(A) IN GENERAL.—A grant under subsection (a) may be used to provide financial assistance to State and regional centers that provide training for firefighters and emergency medical personnel for improvements to the training facility, equipment, curricula, and personnel.*

*(B) LIMITATION.—Not more than \$750,000 shall be provided to any single training center for any fiscal year under this paragraph.*

*(c) FUNDING.—Of the funds of the Commodity Credit Corporation, the Secretary shall make available to carry out this section \$10,000,000 for each of fiscal years 2003 through 2007, to remain available until expended.*

**SEC. 6406. SENSE OF CONGRESS ON RURAL POLICY COORDINATION.**

*It is the sense of Congress that the President should—*

*(1) appoint a Special Assistant to the President for Rural Policy;*

*(2) designate within each Federal agency with jurisdiction over rural programs or activities 1 or more senior officers or employees to provide rural policy leadership for the agency; and*

*(3) create an intergovernmental rural policy working group comprised of—*

*(A) the Special Assistant to the President for Rural Policy, who should serve as Chairperson; and*

*(B) the senior officers and employees designated under paragraph (2).*

## **TITLE VII—RESEARCH AND RELATED MATTERS**

### **Subtitle A—Extensions**

**SEC. 7101. NATIONAL RURAL INFORMATION CENTER CLEARINGHOUSE.**

*Section 2381(e) of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 3125b(e)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7102. GRANTS AND FELLOWSHIPS FOR FOOD AND AGRICULTURAL SCIENCES EDUCATION.**

*Section 1417 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3152) is amended—*

*(1) in subsection (a)—*

*(A) by striking “and” after “economics,”; and*

*(B) by inserting “, and rural economic, community, and business development” before the period;*

*(2) in subsection (b)—*

(A) in paragraph (1), by inserting “, or in rural economic, community, and business development” before the semicolon;

(B) in paragraph (2), by inserting “, or in rural economic, community, and business development” before the semicolon;

(C) in paragraph (3), by inserting “, or teaching programs emphasizing rural economic, community, and business development” before the semicolon;

(D) in paragraph (4), by inserting “, or programs emphasizing rural economic, community, and business development,” after “programs”; and

(E) in paragraph (5), by inserting “, or professionals in rural economic, community, and business development” before the semicolon;

(3) in subsection (d)—

(A) in paragraph (1), by inserting “, or in rural economic, community, and business development,” after “sciences”; and

(B) in paragraph (2), by inserting “, or in the rural economic, community, and business development workforce,” after “workforce”; and

(4) in subsection (l), by striking “2002” and inserting “2007”.

**SEC. 7103. POLICY RESEARCH CENTERS.**

Section 1419A(d) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3155(d)) is amended by striking “2002” and inserting “2007”.

**SEC. 7104. HUMAN NUTRITION INTERVENTION AND HEALTH PROMOTION RESEARCH PROGRAM.**

Section 1424(d) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3174(d)) is amended by striking “2002” and inserting “2007”.

**SEC. 7105. PILOT RESEARCH PROGRAM TO COMBINE MEDICAL AND AGRICULTURAL RESEARCH.**

Section 1424A(d) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3174a(d)) is amended by striking “2002” and inserting “2007”.

**SEC. 7106. NUTRITION EDUCATION PROGRAM.**

Section 1425(c)(3) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3175(c)(3)) is amended by striking “2002” and inserting “2007”.

**SEC. 7107. CONTINUING ANIMAL HEALTH AND DISEASE RESEARCH PROGRAMS.**

Section 1433(a) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3195(a)) is amended by striking “2002” and inserting “2007”.

**SEC. 7108. APPROPRIATIONS FOR RESEARCH ON NATIONAL OR REGIONAL PROBLEMS.**

Section 1434(a) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3196(a)) is amended by striking “2002” and inserting “2007”.

**SEC. 7109. GRANTS TO UPGRADE AGRICULTURAL AND FOOD SCIENCES FACILITIES AT 1890 LAND-GRANT COLLEGES, INCLUDING TUSKEGEE UNIVERSITY.**

*Section 1447(b) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3222b(b)) is amended by striking “\$15,000,000 for each of fiscal years 1996 through 2002” and inserting “\$25,000,000 for each of fiscal years 2002 through 2007”.*

**SEC. 7110. NATIONAL RESEARCH AND TRAINING VIRTUAL CENTERS.**

*(a) AUTHORIZATION.—Section 1448 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3222c) is amended by striking “2002” each place it appears in subsections (a)(1) and (f) and inserting “2007”.*

*(b) REDESIGNATION.—Section 1448 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3222c) is amended—*

*(1) in the section heading, by striking “CENTENNIAL” and inserting “VIRTUAL”; and*

*(2) by striking “centennial” each place it appears and inserting “virtual”.*

**SEC. 7111. HISPANIC-SERVING INSTITUTIONS.**

*Section 1455(c) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3241(c)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7112. COMPETITIVE GRANTS FOR INTERNATIONAL AGRICULTURAL SCIENCE AND EDUCATION PROGRAMS.**

*Section 1459A(c) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3292b(c)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7113. UNIVERSITY RESEARCH.**

*Section 1463 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3311) is amended—*

*(1) in subsection (a), by striking “\$850,000,000 for each of the fiscal years 1991 through 2002” and inserting “such sums as may be necessary for each of fiscal years 1991 through 2007”; and*

*(2) in subsection (b), by striking “\$310,000,000 for each of the fiscal years 1991 through 2002” and inserting “such sums as may be necessary for each of fiscal years 1991 through 2007”.*

**SEC. 7114. EXTENSION SERVICE.**

*Section 1464 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3312) is amended by striking “\$420,000,000 for fiscal year 1991, \$430,000,000 for fiscal year 1992, \$440,000,000 for fiscal year 1993, \$450,000,000 for fiscal year 1994, and \$460,000,000 for each of fiscal years 1995 through 2002” and inserting “such sums as may be necessary for each of fiscal years 1991 through 2007”.*

**SEC. 7115. SUPPLEMENTAL AND ALTERNATIVE CROPS.**

*Section 1473D(a) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3319d(a)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7116. AQUACULTURE RESEARCH FACILITIES.**

*The first sentence of section 1477 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3324) is amended by striking “2002” and inserting “2007”.*

**SEC. 7117. RANGELAND RESEARCH.**

*Section 1483(a) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3336(a)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7118. NATIONAL GENETICS RESOURCES PROGRAM.**

*Section 1635(b) of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5844(b)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7119. HIGH-PRIORITY RESEARCH AND EXTENSION INITIATIVES.**

*Section 1672(h) of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5925(h)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7120. NUTRIENT MANAGEMENT RESEARCH AND EXTENSION INITIATIVE.**

*Section 1672A(g) of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5925a(g)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7121. AGRICULTURAL TELECOMMUNICATIONS PROGRAM.**

*Section 1673(h) of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5926(h)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7122. ASSISTIVE TECHNOLOGY PROGRAM FOR FARMERS WITH DISABILITIES.**

*Section 1680(c)(1) of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5933(c)(1)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7123. PARTNERSHIPS FOR HIGH-VALUE AGRICULTURAL PRODUCT QUALITY RESEARCH.**

*Section 402(g) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7622(g)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7124. BIOBASED PRODUCTS.**

*(a) PILOT PROJECT.—Section 404(e)(2) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7624(e)(2)) is amended by striking “2001” and inserting “2007”.*

*(b) AUTHORIZATION OF APPROPRIATIONS.—Section 404(h) of such Act (7 U.S.C. 7624(h)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7125. INTEGRATED RESEARCH, EDUCATION, AND EXTENSION COMPETITIVE GRANTS PROGRAM.**

*Section 406 of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7626) is amended—*

*(1) by redesignating subsection (e) as subsection (f);*

*(2) by inserting after subsection (d) the following:*

*“(e) TERM OF GRANT.—A grant under this section shall have a term of not more than 5 years.”; and*

(3) in subsection (f) (as so redesignated), by striking “2002” and inserting “2007”.

**SEC. 7126. EQUITY IN EDUCATIONAL LAND-GRANT STATUS ACT OF 1994.**

(f) *INSTITUTIONAL CAPACITY BUILDING GRANTS.*—Section 535 of the Equity in Educational Land-Grant Status Act of 1994 (7 U.S.C. 301 note; Public Law 103–382) is amended—

(1) in subsection (b)(1), by striking “2002” and inserting “2007”; and

(2) in subsection (c), by striking “\$1,700,000 for each of fiscal years 1996 through 2002” and inserting “such sums as are necessary for each of fiscal years 2002 through 2007”.

**SEC. 7127. 1994 INSTITUTION RESEARCH GRANTS.**

Section 536(c) of the Equity in Educational Land-Grant Status Act of 1994 (7 U.S.C. 301 note) is amended by striking “2002” and inserting “2007”.

**SEC. 7128. ENDOWMENT FOR 1994 INSTITUTIONS.**

The first sentence of section 533(b) of the Equity in Educational Land-Grant Status Act of 1994 (7 U.S.C. 301 note) is amended by striking “\$4,600,000” and all that follows through the period and inserting “such sums as are necessary to carry out this section for each of fiscal years 1996 through 2007.”.

**SEC. 7129. PRECISION AGRICULTURE.**

Section 403(i) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7623(i)) is amended by striking “2002” and inserting “2007”.

**SEC. 7130. THOMAS JEFFERSON INITIATIVE FOR CROP DIVERSIFICATION.**

Section 405(h) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7625(h)) is amended by striking “2002” and inserting “2007”.

**SEC. 7131. SUPPORT FOR RESEARCH REGARDING DISEASES OF WHEAT, TRITICALE, AND BARLEY CAUSED BY FUSARIUM GRAMINEARUM OR BY TILLETIA INDICA.**

Section 408(e) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7628(e)) is amended—

(1) by striking “\$5,200,000” and inserting “such sums as may be necessary”; and

(2) by striking “2002” and inserting “2007”.

**SEC. 7132. OFFICE OF PEST MANAGEMENT POLICY.**

Section 614(f) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7653(f)) is amended by striking “2002” and inserting “2007”.

**SEC. 7133. NATIONAL AGRICULTURAL RESEARCH, EXTENSION, EDUCATION, AND ECONOMICS ADVISORY BOARD.**

Section 1408(h) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3123(h)) is amended by striking “2002” and inserting “2007”.

**SEC. 7134. GRANTS FOR RESEARCH ON PRODUCTION AND MARKETING OF ALCOHOLS AND INDUSTRIAL HYDROCARBONS FROM AGRICULTURAL COMMODITIES AND FOREST PRODUCTS.**

*Section 1419(d) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3154(d)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7135. AGRICULTURAL EXPERIMENT STATIONS RESEARCH FACILITIES.**

*Section 6(a) of the Research Facilities Act (7 U.S.C. 390d(a)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7136. COMPETITIVE, SPECIAL, AND FACILITIES RESEARCH GRANTS NATIONAL RESEARCH INITIATIVE.**

*Section 2(b)(10) of the Competitive, Special, and Facilities Research Grant Act (7 U.S.C. 450i(b)(10)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7137. FEDERAL AGRICULTURAL RESEARCH FACILITIES AUTHORIZATION OF APPROPRIATIONS.**

*Section 1431 of the National Agricultural Research, Extension, and Teaching Policy Act Amendments of 1985 (Public Law 99–198; 99 Stat. 1556) is amended by striking “2002” and inserting “2007”.*

**SEC. 7138. CRITICAL AGRICULTURAL MATERIALS RESEARCH.**

*Section 16(a) of the Critical Agricultural Materials Act (7 U.S.C. 178n(a)) is amended by striking “2002” and inserting “2007”.*

**SEC. 7139. AQUACULTURE.**

*Section 10 of the National Aquaculture Act of 1980 (16 U.S.C. 2809) is amended by striking “2002” each place it appears and inserting “2007”.*

## **Subtitle B—Modifications**

**SEC. 7201. EQUITY IN EDUCATIONAL LAND-GRANT STATUS ACT OF 1994.**

*(a) AUTHORIZATION OF APPROPRIATIONS.—Section 534(a)(1)(A) of the Equity in Educational Land-Grant Status Act of 1994 (7 U.S.C. 301 note) is amended by striking “\$50,000” and inserting “\$100,000”.*

*(b) CHANGE OF INDIAN STUDENT COUNT FORMULA.—Section 533(c)(4)(A) of the Equity in Educational Land-Grant Status Act of 1994 (7 U.S.C. 301 note; Public Law 103–382) is amended by striking “(as defined in section 390(3) of the Carl D. Perkins Vocational and Applied Technology Education Act, as such section was in effect on the day preceding the date of enactment of the Carl. D. Perkins Vocational and Applied Technology Education Amendments of 1998 (Oct. 31, 1998)) for each 1994 Institution for the fiscal year” and inserting “(as defined in section 2(a) of the Tribally Controlled College or University Assistance Act of 1978 (25 U.S.C. 1801(a)))”.*

*(c) ACCREDITATION REQUIREMENT FOR RESEARCH GRANTS.—Section 533(a)(3) of the Equity in Educational Land-Grant Status Act of 1994 (7 U.S.C. 301 note; Public Law 103–382) is amended by striking “sections 534 and 535” and inserting “sections 534, 535, and 536”.*

*(d) TECHNICAL AMENDMENT TO REFLECT NAME CHANGES.—Section 532 of the Equity in Educational Land-Grant Status Act of*

1994 (7 U.S.C. 301 note; Public Law 103-382) is amended by striking paragraphs (1) through (30) and inserting the following:

- “(1) Bay Mills Community College.
- “(2) Blackfeet Community College.
- “(3) Cankdeska Cikana Community College.
- “(4) College of Menominee Nation.
- “(5) Crownpoint Institute of Technology.
- “(6) D-Q University.
- “(7) Dine College.
- “(8) Chief Dull Knife Memorial College.
- “(9) Fond du Lac Tribal and Community College.
- “(10) Fort Belknap College.
- “(11) Fort Berthold Community College.
- “(12) Fort Peck Community College.
- “(13) Haskell Indian Nations University.
- “(14) Institute of American Indian and Alaska Native Culture and Arts Development.
- “(15) Lac Courte Oreilles Ojibwa Community College.
- “(16) Leech Lake Tribal College.
- “(17) Little Big Horn College.
- “(18) Little Priest Tribal College.
- “(19) Nebraska Indian Community College.
- “(20) Northwest Indian College.
- “(21) Oglala Lakota College.
- “(22) Salish Kootenai College.
- “(23) Sinte Gleska University.
- “(24) Sisseton Wahpeton Community College.
- “(25) Si Tanka / Huron University.
- “(26) Sitting Bull College.
- “(27) Southwestern Indian Polytechnic Institute.
- “(28) Stone Child College.
- “(29) Turtle Mountain Community College.
- “(30) United Tribes Technical College.
- “(31) White Earth Tribal and Community College.”

(e) **REPORT RECOMMENDING CRITERIA FOR ADDITIONAL ELIGIBLE ENTITIES.**—Not later than 1 year after the date of enactment of this Act, the Secretary of Agriculture shall submit a report containing recommended criteria for designating additional 1994 Institutions to the Committee on Agriculture of the House of Representatives and the Committee on Agriculture, Nutrition, and Forestry of the Senate.

**SEC. 7202. CARRYOVER FOR EXPERIMENT STATIONS.**

Section 7 of the Hatch Act of 1887 (7 U.S.C. 361g) is amended by striking subsection (c) and inserting the following:

“(c) **CARRYOVER.**—

“(1) **IN GENERAL.**—The balance of any annual funds provided under this Act to a State agricultural experiment station for a fiscal year that remains unexpended at the end of the fiscal year may be carried over for use during the following fiscal year.

“(2) **FAILURE TO EXPEND FULL ALLOTMENT.**—

“(A) **IN GENERAL.**—If any unexpended balance carried over by a State is not expended by the end of the second fiscal year, an amount equal to the unexpended balance shall

be deducted from the next succeeding annual allotment to the State.

“(B) *REDISTRIBUTION.*—Federal funds that are deducted under subparagraph (A) for a fiscal year shall be redistributed by the Secretary in accordance with the formula set forth in section 3(c) to those States for which no deduction under subparagraph (A) has been taken for that fiscal year.”.

**SEC. 7203. AUTHORIZATION PERCENTAGES FOR RESEARCH AND EXTENSION FORMULA FUNDS.**

(a) *EXTENSION.*—Section 1444(a) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3221(a)) is amended—

(1) by striking “(a) There” and inserting the following:

“(a) *AUTHORIZATION OF APPROPRIATIONS.*—

“(1) *IN GENERAL.*—There”;

(2) by striking the second sentence; and

(3) in the third sentence, by striking “Beginning” through “6 per centum” and inserting the following:

“(2) *MINIMUM AMOUNT.*—Beginning with fiscal year 2003, there shall be appropriated under this section for each fiscal year an amount that is not less than 15 percent”;

(3) by striking “Funds appropriated” and inserting the following:

“(3) *USES.*—Funds appropriated”; and

(4) by striking “No more” and inserting the following:

“(4) *CARRYOVER.*—No more”.

(b) *RESEARCH.*—Section 1445(a) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3222(a)) is amended—

(1) by striking “(a) There” and inserting the following:

“(a) *AUTHORIZATION OF APPROPRIATIONS.*—

“(1) *IN GENERAL.*—There”;

(2) by striking the second sentence and inserting the following:

“(2) *MINIMUM AMOUNT.*—Beginning with fiscal year 2003, there shall be appropriated under this section for each fiscal year an amount that is not less than 25 percent of the total appropriations for the fiscal year under section 3 of the Hatch Act of 1887 (7 U.S.C. 361c).”;

(3) by striking “Funds appropriated” and inserting the following:

“(3) *USES.*—Funds appropriated”;

(4) by striking “The eligible” and inserting the following:

“(4) *COORDINATION.*—The eligible”; and

(5) by striking “No more” and inserting the following:

“(5) *CARRYOVER.*—No more”.

**SEC. 7204. CARRYOVER FOR ELIGIBLE INSTITUTIONS.**

Section 1445(a) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3222(a)) (as amended by section 7203 of this Act) is further amended by striking paragraph (5) and inserting the following:

“(5) *CARRYOVER.*—

“(A) *IN GENERAL.*—The balance of any annual funds provided to an eligible institution for a fiscal year under this section that remains unexpended at the end of the fiscal year may be carried over for use during the following fiscal year.

“(B) *FAILURE TO EXPEND FULL AMOUNT.*—

“(i) *IN GENERAL.*—If any unexpended balance carried over by an eligible institution is not expended by the end of the second fiscal year, an amount equal to the unexpended balance shall be deducted from the next succeeding annual allotment to the eligible institution.

“(ii) *REDISTRIBUTION.*—Federal funds that are deducted under clause (i) for a fiscal year shall be redistributed by the Secretary in accordance with the formula set forth in subsection (b)(2)(B) to those eligible institutions for which no deduction under clause (i) has been taken for that fiscal year.”.

**SEC. 7205. INITIATIVE FOR FUTURE AGRICULTURE AND FOOD SYSTEMS.**

(a) *FUNDING.*—Section 401(b) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7621(b)) is amended—

(1) in paragraph (1), by striking “2002” and inserting “2001”; and

(2) by adding at the end the following:

“(3) *OTHER FUNDING.*—Out of funds in the Commodity Credit Corporation, the Secretary shall transfer to the Account—

“(A) on October 1, 2003, \$120,000,000;

“(B) on October 1, 2004, \$140,000,000;

“(C) on October 1, 2005, \$160,000,000; and

“(D) on October 1, 2006, and each October 1 thereafter, \$200,000,000.”.

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

“(1) *CRITICAL EMERGING AGRICULTURAL AND RURAL ISSUES.*—The Secretary shall use the funds in the Account for research, extension, and education grants (referred to in this section as ‘grants’) to address critical emerging agricultural and rural issues related to—

“(A) future food production;

“(B) environmental quality and natural resource management;

“(C) farm income; or

“(D) rural economic and business and community development policy.”; and

(3) in subsection (e)(1), by striking “small and mid-sized” and inserting “small, mid-sized, and minority-serving”.

**SEC. 7206. ELIGIBILITY FOR INTEGRATED GRANTS PROGRAM.**

Section 406(b) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7626(b)) is amended by inserting “and 1994 Institutions” before “on a competitive basis”.

**SEC. 7207. AGRICULTURAL RESEARCH, EXTENSION, AND EDUCATION REFORM ACT OF 1998.**

(a) *PRECISION AGRICULTURE.*—Section 403 of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7623) is amended—

(1) in subsection (a)—

(A) in paragraph (3)—

(i) in subparagraph (A), inserting “, horticultural,” following “agronomic” the second place it appears; and

(ii) in subparagraph (C), by striking “or” at the end;

(iii) in subparagraph (D), by striking the period at the end and inserting “; or”; and

(iv) by adding at the end the following:

“(E) using such information to enable intelligent mechanized harvesting and sorting systems for horticultural crops.”;

(B) in paragraph (4)—

(i) in subparagraph (C), by striking “or” at the end;

(ii) in subparagraph (D), by striking the period at the end and inserting “; or”; and

(iii) by adding at the end the following:

“(E) robotic and other intelligent machines for use in horticultural cropping systems.”; and

(C) in paragraph (5)(F), by inserting “(including improved use of energy inputs)” after “farm production efficiencies”;

(2) in subsection (c)(2)—

(A) by inserting “or horticultural” after “agronomic”; and

(B) by striking “and meteorological variability” and inserting “product variability, and meteorological variability”;

(3) in subsection (d)—

(A) by redesignating paragraphs (4) and (5) as paragraphs (5) and (6), respectively; and

(B) by inserting after paragraph (3) the following:

“(4) Improve farm energy use efficiencies.”.

(b) *THOMAS JEFFERSON INITIATIVE FOR CROP DIVERSIFICATION.*—Section 405(a) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7625(a)) is amended by striking “and marketing” and inserting “, marketing, and efficient use”.

(c) *COORDINATED PROGRAM OF RESEARCH, EXTENSION, AND EDUCATION TO IMPROVE VIABILITY OF SMALL- AND MEDIUM-SIZE DAIRY, LIVESTOCK, AND POULTRY OPERATIONS.*—Section 407(b)(3) of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7627(b)(3)) is amended by inserting “(including improved use of energy inputs)” after “poultry systems that increase efficiencies”.

(d) *SUPPORT FOR RESEARCH REGARDING DISEASES OF WHEAT, TRITICALE, AND BARLEY CAUSED BY FUSARIUM GRAMINEARUM OR BY TILLETIA INDICA.*—

(1) **RESEARCH GRANT AUTHORIZED.**—Section 408(a) of the *Agricultural Research, Extension, and Education Reform Act of 1998* (7 U.S.C. 7628(a)) is amended to read as follows:

“(a) **RESEARCH GRANT AUTHORIZED.**—The Secretary of Agriculture may make grants to consortia of land-grant colleges and universities to enhance the ability of the consortia to carry out multi-State research projects aimed at understanding and combating diseases of wheat, triticale, and barley caused by *Fusarium graminearum* and related fungi (referred to in this section as ‘wheat scab’) or by *Tilletia indica* and related fungi (referred to in this section as ‘Karnal bunt’).”

(2) **RESEARCH COMPONENTS.**—Section 408(b) of such Act (7 U.S.C. 7628(b)) is amended—

(A) in paragraph (1), by inserting “or of Karnal bunt,” after “epidemiology of wheat scab”;

(B) in paragraph (1), by inserting “, triticale,” after “occurring in wheat”;

(C) in paragraph (2), by inserting “or Karnal bunt” after “wheat scab”;

(D) in paragraph (3)(A), by striking “and barley for the presence of” and inserting “, triticale, and barley for the presence of Karnal bunt or of”;

(E) in paragraph (3)(B), by striking “and barley infected with wheat scab” and inserting “, triticale, and barley infected with wheat scab or with Karnal bunt”;

(F) in paragraph (3)(C), by inserting “wheat scab” after “to render”;

(G) in paragraph (4), by striking “and barley to wheat scab” and inserting “, triticale, and barley to wheat scab and to Karnal bunt”; and

(H) in paragraph (5)—

(i) by inserting “and Karnal bunt” after “wheat scab”; and

(ii) by inserting “, triticale,” after “resistant wheat”.

(3) **COMMUNICATIONS NETWORKS.**—Section 408(c) of such Act (7 U.S.C. 7628(c)) is amended by inserting “or Karnal bunt” after “wheat scab”.

(4) **TECHNICAL AMENDMENTS.**—(A) The section heading for section 408 of such Act is amended by striking “**AND BARLEY CAUSED BY FUSARIUM GRAMINEARUM**” and inserting “, **TRITICALE, AND BARLEY CAUSED BY FUSARIUM GRAMINEARUM OR BY TILLETIA INDICA**”.

(B) The table of sections for such Act is amended by striking “and barley caused by *fusarium graminearum*” in the item relating to section 408 and inserting “, triticale, and barley caused by *Fusarium graminearum* or by *Tilletia indica*”.

(e) **PROGRAM TO CONTROL JOHNE’S DISEASE.**—Title IV of the *Agricultural Research, Extension, and Education Reform Act of 1998* (7 U.S.C. 7621 et seq.) is amended by adding at the end the following new section:

**“SEC. 409. BOVINE JOHNE’S DISEASE CONTROL PROGRAM.**

“(a) **ESTABLISHMENT.**—The Secretary of Agriculture, in coordination with State veterinarians and other appropriate State animal health professionals, may establish a program to conduct research,

*testing, and evaluation of programs for the control and management of Johne's disease in livestock.*

*“(b) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to the Secretary such sums as may be necessary to carry out this section for each of fiscal years 2003 through 2007.”.*

**SEC. 7208. FOOD, AGRICULTURE, CONSERVATION, AND TRADE ACT OF 1990.**

*(a) AGRICULTURAL GENOME INITIATIVE.—Section 1671(b) of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5924(b)) is amended—*

*(1) in paragraph (3), by inserting “pathogens and” before “diseases causing economic hardship”;*

*(2) in paragraph (6), by striking “and” at the end;*

*(3) by redesignating paragraph (7) as paragraph (8); and*

*(4) by inserting after paragraph (6) the following new paragraph:*

*“(7) reducing the economic impact of plant pathogens on commercially important crop plants; and”.*

*(b) HIGH-PRIORITY RESEARCH AND EXTENSION INITIATIVES.—Section 1672(e) of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5925) is amended by adding at the end the following new paragraphs:*

*“(25) GENETICALLY MODIFIED AGRICULTURE PRODUCTS (GMAP) RESEARCH.—Research grants may be made under this section for the purposes of providing unbiased, science-based evaluation of the risks and benefits to the public and the environment of specific genetically modified plant and animal products. Grants may be used to form interdisciplinary teams to review and conduct research on scientific, social, economic, and ethical issues during the review process, to answer questions raised by the release of new genetically modified agriculture products, to conduct fundamental studies on the health and environmental safety of genetically modified agriculture products (including quantitative risk assessment, the effect of specific genetically modified agriculture products on human health, and gene flow studies), to communicate the risk of genetically modified agriculture products through extension and education programs, and to engage the public and industry in relevant issues.*

*“(26) WIND EROSION RESEARCH AND EXTENSION.—Research and extension grants may be made under this section for the purpose of validating wind erosion models.*

*“(27) CROP LOSS RESEARCH AND EXTENSION.—Research and extension grants may be made under this section for the purpose of validating crop loss models.*

*“(28) LAND USE MANAGEMENT RESEARCH AND EXTENSION.—Research and extension grants may be made under this section for the purposes of evaluating the environmental benefits of land use management tools such as those provided in the Farmland Protection Program.*

*“(29) WATER AND AIR QUALITY RESEARCH AND EXTENSION.—Research and extension grants may be made under this section for the purpose of better understanding agricultural impacts to air and water quality and means to address them.*

“(30) *REVENUE AND INSURANCE TOOLS RESEARCH AND EXTENSION.*—Research and extension grants may be made under this section for the purposes of better understanding the impact of revenue and insurance tools on farm income.

“(31) *AGROTOURISM RESEARCH AND EXTENSION.*—Research and extension grants may be made under this section for the purpose of better understanding the economic, environmental, and food systems impacts of agrotourism.

“(32) *HARVESTING PRODUCTIVITY FOR FRUITS AND VEGETABLES.*—Research and extension grants may be made under this section for the purpose of improving harvesting productivity for fruits and vegetables (including citrus), including the development of mechanical harvesting technologies and effective, economical, and safe abscission compounds.

“(33) *NITROGEN-FIXATION BY PLANTS.*—Research and extension grants may be made under this section for the purpose of enhancing the nitrogen-fixing ability and efficiency of legumes, developing new varieties of legumes that fix nitrogen more efficiently, and developing new varieties of other commercially important crops that potentially are able to fix nitrogen.

“(34) *AGRICULTURAL MARKETING.*—Extension grants may be made under this section for the purpose of providing education materials, information, and outreach programs regarding commodity and livestock marketing strategies for agricultural producers and for cooperatives and other marketers of any agricultural commodity, including livestock.

“(35) *ENVIRONMENT AND PRIVATE LANDS RESEARCH AND EXTENSION.*—Research and extension grants may be made under this section for the purpose of researching the use of computer models to aid in assessment of best management practices on a watershed basis, working with government, industry, and private landowners to help craft industry-led solutions to identified environmental issues, researching and monitoring water, air, or soil environmental quality to aid in the development of new approaches to local environmental concerns, and working with local, State, and federal officials to help craft effective environmental solutions that respect private property rights and agricultural production realities.

“(36) *LIVESTOCK DISEASE RESEARCH AND EXTENSION.*—Research and extension grants may be made under this section for the purpose of identifying possible livestock disease threats, educating the public regarding livestock disease threats, training persons to deal with such threats, and conducting related research.

“(37) *PLANT GENE EXPRESSION.*—Research grants may be made under this section for the purpose of plant gene expression research to accelerate the application of basic plant genomic science to the development and testing of new varieties of enhanced food crops, crops that can be used as renewable energy sources, and other alternative uses of agricultural crops.

“(38) *ANIMAL INFECTIOUS DISEASES RESEARCH.*—Research and extension grants may be made under this section for the purpose of developing prevention and control methodologies for animal infectious diseases (including evaluation under field

conditions in countries in which an animal disease occurs) such as laboratory tests for quicker detection of infected animals and presence of disease, prevention strategies (including vaccination programs), and rapid diagnostic techniques for animal disease agents considered to be risks for agricultural bioterrorism attack.

“(39) PROGRAM TO COMBAT CHILDHOOD OBESITY.—Research and extension grants may be made under this section to institutions of higher education with demonstrated capacity in basic and clinical obesity research, nutrition research, and community health education research to develop and evaluate community-wide strategies that catalyze partnerships between families and health care, education, recreation, mass media, and other community resources to reduce the incidence of childhood obesity.

“(40) INTEGRATED PEST MANAGEMENT.—Research and extension grants may be made under this section to coordinate and improve research, education, and outreach on, and implementation on farms of, integrated pest management.

“(41) BEEF CATTLE GENETICS.—Research and extension grants for beef cattle genetics evaluation research may be made under this section to consortia of institutions of higher education that have expertise in beef cattle genetic evaluation research and technology and that have been actively involved for at least 20 years in the estimation and prediction of progeny differences for publication and use by seed stock producer breed associations.

“(42) DAIRY PIPELINE CLEANER.—Research and extension grants may be made under this section for the purpose of preventing and eliminating the dangers of dairy pipeline cleaner, including development of safer packaging and transfer mechanisms, outlining accident causes and potential prevention measures, and other means of improving efforts to prevent ingestion of dairy pipeline cleaner.

“(43) DEVELOPMENT OF PUBLICLY HELD PLANTS AND ANIMAL VARIETIES.—Research and extension grants may be made under this section for the purpose of development of publicly held plants and animal varieties (including germplasm for identity-preserved markets) and genetic resource conservation activities.

“(44) SUGARCANE GENETICS.—Research grants may be made under this section for the purpose of maintaining acceptable yields under reduced production inputs, implementing marker-assisted breeding strategies and other basic plant genomic technologies to screen for improved plant resistance to diseases, weeds, and insects toward minimizing pesticide use, enhancing food, fiber and energy production, and developing varieties for maximum performance under prevailing conditions, including management for improved soil and water conservation.”

(c) ASSISTIVE TECHNOLOGY PROGRAM FOR FARMERS WITH DISABILITIES.—Section 1680(a) of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5933(a)) is amended by adding at the end the following new paragraph:

“(6) *CONSIDERATION FOR GRANTS FOR NEW PROGRAMS.*—For each fiscal year that amounts are made available for grants under this subsection, the Secretary may make grants in a manner that ensures that eligible entities who apply for grants, but have not previously received a grant under this subsection, are given full consideration.”

**SEC. 7209. NATIONAL AGRICULTURAL RESEARCH, EXTENSION, AND TEACHING POLICY ACT OF 1977.**

(a) *NATIONAL AGRICULTURAL RESEARCH, EXTENSION, EDUCATION, AND ECONOMIC ADVISORY BOARD.*—Section 1408 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3123) is amended—

(1) in subsection (b)(1), by striking “30 members” and inserting “31 members”;

(2) in subsection (b)(3)—

(A) by redesignating subparagraphs (R) through (DD) as subparagraphs (S) through (EE), respectively; and

(B) by inserting after subparagraph (Q) the following new subparagraph:

“(R) 1 member representing a non-land grant college or university with a historic commitment to research in the food and agricultural sciences.”;

(3) in subsection (c)(1), by striking “and land-grant colleges and universities” and inserting “, land-grant colleges and universities, and the Committee on Agriculture of the House of Representatives, the Committee on Agriculture, Nutrition, and Forestry of the Senate, the Subcommittee on Agriculture, Rural Development, Food and Drug Administration and Related Agencies of the Committee on Appropriations of the House of Representatives, and the Subcommittee on Agriculture, Rural Development and Related Agencies of the Committee on Appropriations of the Senate”; and

(4) in subsection (d)(1), inserting “consult with any appropriate agencies of the Department of Agriculture and” after “the Advisory Board shall”.

(b) *GRANTS FOR RESEARCH ON PRODUCTION AND MARKETING OF ALCOHOLS AND INDUSTRIAL HYDROCARBONS FROM AGRICULTURAL COMMODITIES AND FOREST PRODUCTS.*—Section 1419 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3154) is amended—

(1) in subsection (a)(2), by inserting “and animal fats and oils” after “industrial oilseed crops”; and

(2) in subsection (a)(4), by inserting “or triglycerides” after “other industrial hydrocarbons”.

(c) *FAS OVERSEAS INTERN PROGRAM.*—Section 1458(a) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3291(a)) is amended—

(1) by striking “and” at the end of paragraph (8);

(2) by striking the period at the end of paragraph (9) and inserting “; and”; and

(3) by adding at the end the following new paragraph:

“(10) establish a program, to be coordinated by the Cooperative State Research, Education, and Extension Service and the Foreign Agricultural Service, to place interns from United

*States colleges and universities at Foreign Agricultural Service field offices overseas.”*

*(d) RANGELAND RESEARCH GRANTS.—Section 1480 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3333) is amended to read as follows:*

**“SEC. 1480. RANGELAND RESEARCH GRANTS.**

*“(a) IN GENERAL.—The Secretary may make grants to—*

*“(1) land-grant colleges and universities, State agricultural experiment stations, and colleges, universities, and Federal laboratories having a demonstrable capacity in rangeland research, as determined by the Secretary, to carry out rangeland research; and*

*“(2) the Joe Skeen Institute for Rangeland Restoration for the purposes of facilitating and expanding ongoing State-Federal range management, animal husbandry, and agricultural research, education, and extension programs to meet the targeted, emerging, and future needs of western United States rangelands and associated natural resources.*

*“(b) MATCHING REQUIREMENTS.—*

*“(1) IN GENERAL.—Except as provided in paragraph (2), this grant program shall be based on a matching formula of 50 percent Federal and 50 percent non-Federal funding.*

*“(2) EXCEPTION.—Paragraph (1) shall not apply to a grant to a Federal laboratory or a grant under subsection (a)(2).”*

**SEC. 7210. BIOTECHNOLOGY RISK ASSESSMENT RESEARCH.**

*Section 1668 of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5921) is amended to read as follows:*

**“SEC. 1668. BIOTECHNOLOGY RISK ASSESSMENT RESEARCH.**

*“(a) PURPOSE.—It is the purpose of this section—*

*“(1) to authorize and support environmental assessment research to help identify and analyze environmental effects of biotechnology; and*

*“(2) to authorize research to help regulators develop long-term policies concerning the introduction of such technology.*

*“(b) GRANT PROGRAM.—The Secretary of Agriculture shall establish a grant program within the Cooperative State Research, Education, and Extension Service and the Agricultural Research Service to provide the necessary funding for environmental assessment research concerning the introduction of genetically engineered animals, plants, and microorganisms into the environment.*

*“(c) RESEARCH PRIORITIES.— The following types of research shall be given priority for funding:*

*“(1) Research designed to identify and develop appropriate management practices to minimize physical and biological risks associated with genetically engineered animals, plants, and microorganisms.*

*“(2) Research designed to develop methods to monitor the dispersal of genetically engineered animals, plants, and microorganisms.*

*“(3) Research designed to further existing knowledge with respect to the characteristics, rates, and methods of gene transfer that may occur between genetically engineered animals,*

*plants, and microorganisms and related wild and agricultural organisms.*

*“(4) Environmental assessment research designed to provide analysis which compares the relative impacts of animals, plants, and microorganisms modified through genetic engineering to other types of production systems.*

*“(5) Other areas of research designed to further the purposes of this section.*

*“(d) ELIGIBILITY REQUIREMENTS.—Grants under this section shall be—*

*“(1) made on the basis of the quality of the proposed research project; and*

*“(2) available to any public or private research or educational institution or organization.*

*“(e) CONSULTATION.— In considering specific areas of research for funding under this section, the Secretary of Agriculture shall consult with the Administrator of the Animal and Plant Health Inspection Service and the National Agricultural Research, Extension, Education, and Economics Advisory Board.*

*“(f) PROGRAM COORDINATION.— The Secretary of Agriculture shall coordinate research funded under this section with the Office of Research and Development of the Environmental Protection Agency in order to avoid duplication of research activities.*

*“(g) AUTHORIZATION OF APPROPRIATIONS.—*

*“(1) IN GENERAL.— There are authorized to be appropriated such sums as necessary to carry out this section.*

*“(2) WITHHOLDINGS FROM BIOTECHNOLOGY OUTLAYS.—The Secretary of Agriculture shall withhold from outlays of the Department of Agriculture for research on biotechnology, as defined and determined by the Secretary, at least 2 percent of such amount for the purpose of making grants under this section for research on biotechnology risk assessment.*

*“(3) APPLICATION OF FUNDS.—Funds made available under this subsection shall be applied, to the maximum extent practicable, to risk assessment research on all categories identified in subsection (c).”.*

**SEC. 7211. COMPETITIVE, SPECIAL, AND FACILITIES RESEARCH GRANTS.**

*Section 2(b)(2) of the Competitive, Special, and Facilities Research Grant Act (7 U.S.C. 450i(b)(2)) is amended by striking “in—” and inserting the following: “in the areas described in subparagraphs (A) through (F). Such needs shall be determined by the Secretary, in consultation with the National Agricultural Research, Extension, Education, and Economics Advisory Board, not later than July 1 of each fiscal year for the purposes of the following fiscal year.”.*

**SEC. 7212. MATCHING FUNDS REQUIREMENT FOR RESEARCH AND EXTENSION ACTIVITIES OF 1890 INSTITUTIONS.**

*Section 1449 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3222d) is amended—*

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

*“(c) MATCHING FORMULA.—Notwithstanding any other provision of this subtitle, for each of fiscal years 2003 through 2007, the*

State shall provide matching funds from non-Federal sources. Such matching funds shall be for an amount equal to not less than—

“(1) 60 percent of the formula funds to be distributed to the eligible institution for fiscal year 2003;

“(2) 70 percent of the formula funds to be distributed to the eligible institution for fiscal year 2004;

“(3) 80 percent of the formula funds to be distributed to the eligible institution for fiscal year 2005;

“(4) 90 percent of the formula funds to be distributed to the eligible institution for fiscal year 2006; and

“(5) 100 percent of the formula funds to be distributed to the eligible institution for fiscal year 2007 and each fiscal year thereafter.”; and

(2) by amending subsection (d) to read as follows:

“(d) **WAIVER AUTHORITY.**—Notwithstanding subsection (f), the Secretary may waive the matching funds requirement under subsection (c) above the 50 percent level for any fiscal year for an eligible institution of a State if the Secretary determines that the State will be unlikely to satisfy the matching requirement.”.

**SEC. 7213. MATCHING REQUIREMENTS FOR RESEARCH AND EXTENSION FORMULA FUNDS FOR INSULAR AREA LAND-GRANT INSTITUTIONS.**

(a) **EXPERIMENT STATIONS.**—Section 3(d) of the Hatch Act of 1887 (7 U.S.C. 361c(d)) is amended by striking paragraph (4) and inserting the following:

“(4) **EXCEPTION FOR INSULAR AREAS.**—

“(A) **IN GENERAL.**—Effective beginning for fiscal year 2003, in lieu of the matching funds requirement of paragraph (1), the insular areas of the Commonwealth of Puerto Rico, Guam, and the Virgin Islands of the United States shall provide matching funds from non-Federal sources in an amount equal to not less than 50 percent of the formula funds distributed by the Secretary to each of the insular areas, respectively, under this section.

“(B) **WAIVERS.**—The Secretary may waive the matching fund requirement of subparagraph (A) for any fiscal year if the Secretary determines that the government of the insular area will be unlikely to meet the matching requirement for the fiscal year.”.

(b) **COOPERATIVE AGRICULTURAL EXTENSION.**—Section 3(e) of the Smith-Lever Act (7 U.S.C. 343(e)) is amended by striking paragraph (4) and inserting the following:

“(4) **EXCEPTION FOR INSULAR AREAS.**—

“(A) **IN GENERAL.**—Effective beginning for fiscal year 2003, in lieu of the matching funds requirement of paragraph (1), the insular areas of the Commonwealth of Puerto Rico, Guam, and the Virgin Islands of the United States shall provide matching funds from non-Federal sources in an amount equal to not less than 50 percent of the formula funds distributed by the Secretary to each of the insular areas, respectively, under this section.

“(B) **WAIVERS.**—The Secretary may waive the matching fund requirement of subparagraph (A) for any fiscal year if the Secretary determines that the government of the insular

area will be unlikely to meet the matching requirement for the fiscal year.”.

**SEC. 7214. DEFINITION OF FOOD AND AGRICULTURAL SCIENCES.**

Section 2(3) of the Research Facilities Act (7 U.S.C. 390(2)(3)) is amended to read as follows:

“(3) **FOOD AND AGRICULTURAL SCIENCES.**—The term ‘food and agricultural sciences’ has the meaning given that term in section 1404(8) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3103(8)).”.

**SEC. 7215. FEDERAL EXTENSION SERVICE.**

Section 3(b)(3) of the Smith-Lever Act (7 U.S.C. 343(b)(3)) is amended—

(1) by striking “\$5,000,000” and inserting “such sums as are necessary”; and

(2) by adding after the first sentence the following new sentence: “The balance of any annual funds provided under the preceding sentence for a fiscal year that remains unexpended at the end of that fiscal year shall remain available without fiscal year limitation.”.

**SEC. 7216. POLICY RESEARCH CENTERS.**

Section 1419A(c)(3) of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3155(c)(3)) is amended by striking “collect and analyze” and inserting “collect, analyze, and disseminate”.

**SEC. 7217. AVAILABILITY OF COMPETITIVE GRANT FUNDS.**

The National Agricultural Research, Extension, and Teaching Policy Act of 1977 is amended by inserting after section 1469 (7 U.S.C. 3315) the following:

**“SEC. 1469A. AVAILABILITY OF COMPETITIVE GRANT FUNDS.**

“Except as otherwise provided by law, funds made available to the Secretary to carry out a competitive agricultural research, education, or extension grant program under this or any other Act shall be available for obligation for a 2-year period beginning on October 1 of the fiscal year for which the funds are made available.”.

**SEC. 7218. ORGANIC AGRICULTURE RESEARCH AND EXTENSION INITIATIVE.**

Section 1672B of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5925b) is amended—

(1) in subsection (a)—

(A) in paragraph (1), by inserting “, breeding,” after “production”;

(B) in paragraph (2), by striking “and” at the end;

(C) in paragraph (3), by striking the period at the end and inserting a semicolon; and

(D) by adding at the end the following:

“(4) determining desirable traits for organic commodities;

“(5) identifying marketing and policy constraints on the expansion of organic agriculture; and

“(6) conducting advanced on-farm research and development that emphasizes observation of, experimentation with, and innovation for working organic farms, including research relat-

ing to production and marketing and to socioeconomic conditions.”; and

(2) by amending subsection (e) to read as follows:

“(e) *FUNDING.*—On October 1, 2003, and each October 1 thereafter through October 1, 2007, out of any funds in the Treasury not otherwise appropriated, the Secretary of the Treasury shall transfer \$3,000,000 to the Secretary of Agriculture for this section.”.

**SEC. 7219. SENIOR SCIENTIFIC RESEARCH SERVICE.**

*Subtitle B of title VI of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7651 et seq.) is amended by adding at the end the following:*

**“SEC. 620. SENIOR SCIENTIFIC RESEARCH SERVICE.**

“(a) *IN GENERAL.*—There is established in the Department of Agriculture the Senior Scientific Research Service (referred to in this section as the ‘Service’).

“(b) *MEMBERS.*—

“(1) *IN GENERAL.*—Subject to paragraphs (2) through (4), the Secretary shall appoint the members of the Service.

“(2) *QUALIFICATIONS.*—To be eligible for appointment to the Service, an individual shall—

“(A) have conducted outstanding research in the field of agriculture or forestry;

“(B) have earned a doctoral level degree at an institution of higher education (as defined in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001)); and

“(C) meet qualification standards prescribed by the Director of the Office of Personnel Management for appointment to a position at level GS–15 of the General Schedule.

“(3) *NUMBER.*—Not more than 100 individuals may serve as members of the Service at any 1 time.

“(4) *OTHER REQUIREMENTS.*—

“(A) *IN GENERAL.*—Subject to subparagraph (B) and subsection (d)(2), the Secretary may appoint and employ a member of the Service without regard to—

“(i) the provisions of title 5, United States Code, governing appointments in the competitive service;

“(ii) the provisions of subchapter I of chapter 35 of title 5, United States Code, relating to retention preference;

“(iii) the provisions of chapter 43 of title 5, United States Code, relating to performance appraisal and performance actions;

“(iv) the provisions of chapter 51 and subchapter III of chapter 53 of title 5, United States Code, relating to classification and General Schedule pay rates; and

“(v) the provisions of chapter 75 of title 5, United States Code, relating to adverse actions.

“(B) *EXCEPTION.*—A member of the Service appointed and employed by the Secretary under subparagraph (A) shall have the same right of appeal to the Merit Systems Protection Board and the same right to file a complaint with the Office of Special Counsel as an employee ap-

*pointed to a position at level GS-15 of the General Schedule.*

*“(c) PERFORMANCE APPRAISAL SYSTEM.—The Secretary shall develop a performance appraisal system for members of the Service that is designed to—*

*“(1) provide for the systematic appraisal of the employment performance of the members; and*

*“(2) encourage excellence in employment performance by the members.*

*“(d) COMPENSATION.—*

*“(1) IN GENERAL.—Subject to paragraph (2), the Secretary shall determine the compensation of members of the Service.*

*“(2) LIMITATIONS.—The rate of pay for a member of the Service shall—*

*“(A) not be less than the minimum rate payable for a position at level GS-15 of the General Schedule; and*

*“(B) not be more than the rate payable for a position at level I of the Executive Schedule, unless the rate is approved by the President under section 5377(d)(2) of title 5, United States Code.*

*“(e) RETIREMENT CONTRIBUTIONS.—*

*“(1) IN GENERAL.—On the request of a member of the Service who was an employee of an institution of higher education (as defined in section 101 of the Higher Education Act of 1965 (20 U.S.C. 1001)) immediately prior to appointment as a member of the Service and who retains the right to continue to make contributions to the retirement system of the institution, the Secretary may contribute an amount not to exceed 10 percent of the basic pay of the member to the retirement system of the institution on behalf of the member.*

*“(2) FEDERAL RETIREMENT SYSTEM.—*

*“(A) IN GENERAL.—Subject to subparagraph (B), a member for whom a contribution is made under paragraph (1) shall not, as a result of serving as a member of the Service, be covered by, or earn service credit under, chapter 83 or 84 of title 5, United States Code.*

*“(B) ANNUAL LEAVE.—Service of a member of the Service described in subparagraph (A) shall be creditable for determining years of service under section 6303(a) of title 5, United States Code.*

*“(f) INVOLUNTARY SEPARATION.—*

*“(1) IN GENERAL.—Subject to paragraph (2) and notwithstanding the provisions of title 5, United States Code, governing appointment in the competitive service, in the case of an individual who is separated from the Service involuntarily and without cause—*

*“(A) the Secretary may appoint the individual to a position in the competitive civil service at level GS-15 of the General Schedule; and*

*“(B) the appointment shall be a career appointment.*

*“(2) EXCEPTED CIVIL SERVICE.—In the case of an individual described in paragraph (1) who immediately prior to appointment as a member of the Service was not a career appointee in*

*the civil service or the Senior Executive Service, the appointment of the individual under paragraph (1)—*

- “(A) shall be to the excepted civil service; and  
“(B) may not exceed a period of 2 years.”*

**SEC. 7220. TERMINATION OF CERTAIN SCHEDULE A APPOINTMENTS.**

*(a) TERMINATION.—Not later than January 31, 2003, the Secretary of Agriculture shall terminate each appointment listed as an excepted position under schedule A of the General Schedule made by the Secretary to the Federal civil service of an individual who holds dual government appointments, and who carries out agricultural extension work in a program at a college or university eligible to receive funds, under—*

- (1) the Smith-Lever Act (7 U.S.C. 341 et seq.);  
(2) section 1444 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3221); or  
(3) section 208(e) of the District of Columbia Public Postsecondary Education Reorganization Act (88 Stat. 1428).*

*(b) CONTINUATION OF CERTAIN FEDERAL BENEFITS.—*

*(1) IN GENERAL.—Notwithstanding title 5, United States Code, and subject to paragraph (2), an individual described in subsection (a), during the period the individual is employed in an agricultural extension program described in subsection (a) without a break in service, shall continue to—*

*(A) be eligible to participate, to the same extent that the individual was eligible to participate (on the day before the date of enactment of this Act), in—*

- (i) the Federal Employee Health Benefits Program;  
(ii) the Federal Employee Group Life Insurance Program;  
(iii) the Civil Service Retirement System;  
(iv) the Federal Employee Retirement System;  
(v) the Thrift Savings Plan; and  
(vi) the Federal Long Term Care Insurance Program; and*

*(B) receive Federal Civil Service employment credit to the same extent that the individual was receiving such credit on the day before the date of enactment of this Act.*

*(2) LIMITATIONS.—An individual may continue to be eligible for the benefits described in paragraph (1) if—*

*(A) in the case of an individual who remains employed in the agricultural extension program described in subsection (a) on the date of enactment of this Act, the employing college or university continues to fulfill the administrative and financial responsibilities (including making agency contributions) associated with providing those benefits, as determined by the Secretary of Agriculture; and*

*(B) in the case of an individual who changes employment to a second college or university described in subsection (a)—*

- (i) the individual continues to work in an agricultural extension program described in subsection (a), as determined by the Secretary of Agriculture;  
(ii) the second college or university—*

(I) fulfills the administrative and financial responsibilities (including making agency contributions) associated with providing those benefits, as determined by the Secretary of Agriculture; and

(II) within 1 year before the date of the employment of the individual, had employed a different individual described in subsection (a) who had performed the same duties of employment; and  
 (iii) the individual was eligible for those benefits on the day before the date of enactment of this Act.

**SEC. 7221. BIOSECURITY PLANNING AND RESPONSE PROGRAMS.**

(a) *BIOSECURITY.*—The National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3101 et seq.) is amended by adding at the end the following:

**“Subtitle N—Biosecurity**

**“SEC. 1484. SPECIAL AUTHORIZATION FOR BIOSECURITY PLANNING AND RESPONSE.**

“(a) *AUTHORIZATION OF APPROPRIATIONS.*—In addition to amounts for agricultural research, extension, and education under this Act, there are authorized to be appropriated for agricultural research, education, and extension activities for biosecurity planning and response such sums as are necessary for each of fiscal years 2002 through 2007.

“(b) *USE OF FUNDS.*—Using any authority available to the Secretary, the Secretary shall use funds made available under this section to carry out agricultural research, education, and extension activities (including through competitive grants) for the following:

“(1) To reduce the vulnerability of the United States food and agricultural system to chemical or biological attack.

“(2) To continue partnerships with institutions of higher education and other institutions to help form stable, long-term programs to enhance the biosecurity of the United States, including the coordination of the development, implementation, and enhancement of diverse capabilities for addressing threats to the Nation’s agricultural economy and food supply with special emphasis on planning, training, outreach, and research activities related to vulnerability analyses, incident response, and detection and prevention technologies.

“(3) To make competitive grants to universities and qualified research institutions for research on counterbioterrorism.

“(4) To counter or otherwise respond to chemical or biological attack.

**“SEC. 1485. AGRICULTURE RESEARCH FACILITY EXPANSION AND SECURITY UPGRADES.**

“(a) *IN GENERAL.*—To enhance the security of agriculture in the United States against threats posed by bioterrorism, the Secretary shall make expansion or security upgrade grants on a competitive basis to colleges and universities (as defined in section 1404(4)).

“(b) *LIMITATION ON GRANTS.*—Grants to a recipient under this section shall not exceed \$10,000,000 in any fiscal year.

“(c) **REQUIREMENTS FOR GRANTS.**—The Secretary shall make a grant under this section only if the grant applicant provides satisfactory assurances to the Secretary that—

“(1) sufficient funds are available to pay the non-Federal share of the cost of the proposed expansion or security upgrades; and

“(2) the proposed expansion or security upgrades meet such reasonable qualifications as may be established by the Secretary with respect to biosafety and biosecurity requirements necessary to protect facility staff, members of the public, and the food supply.

“(d) **ADDITIONAL REQUIREMENTS FOR GRANTS FOR FACILITY EXPANSION.**—The Secretary shall make a grant under this section for the expansion, renovation, remodeling, or alteration (collectively referred to in this section as “expansion”) of a facility only if the grant applicant provides such assurances as the Secretary determines to be satisfactory to ensure the following:

“(1) For not less than 20 years after the grant is awarded, the facility shall be used for the purposes of the research for which the facility was expanded, as described in the grant application.

“(2) Sufficient funds will be available, as of the date of completion of the expansion, for the effective use of the facility for the purposes of the research for which the facility was expanded.

“(3) The proposed expansion—

“(A) will increase the capability of the applicant to conduct research for which the facility was expanded; or

“(B) is necessary to improve the quality of the research of the applicant.

“(e) **AMOUNT OF GRANT.**—The amount of a grant awarded under this section shall be determined by the Secretary.

“(f) **FEDERAL SHARE.**—The Federal share of the cost of any expansion or security upgrade carried out using funds from a grant provided under this section shall not exceed 50 percent.

“(g) **AUTHORIZATION OF APPROPRIATIONS.**—There are authorized to be appropriated to carry out this section such sums as are necessary for each fiscal year.”.

(b) **SENSE OF CONGRESS ON INCREASING CAPACITY FOR RESEARCH ON BIOSECURITY AND ANIMAL AND PLANT HEALTH DISEASES.**—It is the sense of Congress that funding for the Agricultural Research Service, the Animal and Plant Health Inspection Service, and other agencies of the Department of Agriculture with responsibilities for biosecurity should be increased as necessary to improve the capacity of the agencies to conduct research and analysis of, and respond to, bioterrorism and animal and plant diseases.

**SEC. 7222. INDIRECT COSTS FOR SMALL BUSINESS INNOVATION RESEARCH GRANTS.**

Section 1462 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3310) is amended—

(1) by inserting “(a) **IN GENERAL.**—” before “Except”; and

(2) by adding at the end the following:

“(b) *EXCEPTION.*—Subsection (a) shall not apply to a grant awarded competitively under section 9 of the Small Business Act (15 U.S.C. 638).”

**SEC. 7223. CARBON CYCLE RESEARCH.**

Section 221 of the Agricultural Risk Protection Act of 2000 (Public Law 106–224; 114 Stat. 407), as amended by section 9009 of this Act, is amended—

(1) in subsection (a), by striking “Of the amount” and all that follows through “to provide” and inserting “To the extent funds are made available for this purpose, the Secretary shall provide”;

(2) in subsection (f), by striking “under subsection (a)” and inserting “for this section”; and

(3) by adding at the end the following new subsection:

“(g) *AUTHORIZATION OF APPROPRIATIONS.*—There are authorized to be appropriated for fiscal years 2002 through 2007 such sums as may be necessary to carry out this section.”

### **Subtitle C—Repeal of Certain Activities and Authorities**

**SEC. 7301. FOOD SAFETY RESEARCH INFORMATION OFFICE AND NATIONAL CONFERENCE.**

(a) *REPEAL.*—Subsections (b) and (c) of section 615 of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7654(b) and (c)) are repealed.

(b) *CONFORMING AMENDMENTS.*—

(1) *GENERALLY.*—Section 615 of such Act is amended—

(A) in the section heading, by striking “**AND NATIONAL CONFERENCE**”;

(B) by striking “(a) **FOOD SAFETY RESEARCH INFORMATION OFFICE.**—”;

(C) by redesignating paragraphs (1), (2), and (3) as subsections (a), (b), and (c), respectively, and moving the margins 2 ems to the left;

(D) in subsection (b) (as so redesignated), by redesignating subparagraphs (A) and (B) as paragraphs (1) and (2), respectively, and moving the margins 2 ems to the left; and

(E) in subsection (c) (as so redesignated), by striking “this subsection” and inserting “this section”.

(2) *TABLE OF SECTIONS.*—The table of sections for such Act is amended by striking “and National Conference” in the item relating to section 615.

**SEC. 7302. REIMBURSEMENT OF EXPENSES UNDER SHEEP PROMOTION, RESEARCH, AND INFORMATION ACT OF 1994.**

Section 617 of the Agricultural Research, Extension, and Education Reform Act of 1998 (Public Law 105–185; 112 Stat. 607) is repealed.

**SEC. 7303. MARKET EXPANSION RESEARCH.**

Section 1436 of the Food Security Act of 1985 (7 U.S.C. 1632) is repealed.

**SEC. 7304. NATIONAL ADVISORY BOARD ON AGRICULTURAL WEATHER.**

(a) *REPEAL.*—Section 1639 of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5853) is repealed.

(b) *CONFORMING AMENDMENT.*—Section 1640(b) of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5854(b)) is amended by striking “take into” and all that follows through “Weather and”.

**SEC. 7305. AGRICULTURAL INFORMATION EXCHANGE WITH IRELAND.**

Section 1420 of the National Agricultural Research, Extension and Teaching Policy Act Amendments of 1985 (Public Law 99–198; 99 Stat. 1551) is repealed.

**SEC. 7306. PESTICIDE RESISTANCE STUDY.**

Section 1437 of the National Agricultural Research, Extension, and Teaching Policy Act Amendments of 1985 (Public Law 99–198; 99 Stat. 1558) is repealed.

**SEC. 7307. EXPANSION OF EDUCATION STUDY.**

Section 1438 of the National Agricultural Research, Extension, and Teaching Policy Act Amendments of 1985 (Public Law 99–198; 99 Stat. 1559) is repealed.

**SEC. 7308. TASK FORCE ON 10-YEAR STRATEGIC PLAN FOR AGRICULTURAL RESEARCH FACILITIES.**

(a) *REPEAL.*—Section 4 of the Research Facilities Act (7 U.S.C. 390b) is repealed.

(b) *CONFORMING AMENDMENT.*—Section 2 of such Act (7 U.S.C. 390) is amended by striking paragraph (5).

## ***Subtitle D—New Authorities***

**SEC. 7401. SUBTITLE DEFINITIONS.**

*In this subtitle:*

(1) *DEPARTMENT.*—The term “Department” means the Department of Agriculture.

(2) *SECRETARY.*—The term “Secretary” means the Secretary of Agriculture.

**SEC. 7402. RESEARCH EQUIPMENT GRANTS.**

The National Agricultural Research, Extension, and Teaching Policy Act of 1977 is amended by inserting after section 1462 (7 U.S.C. 3310) the following:

**“SEC. 1462A. RESEARCH EQUIPMENT GRANTS.**

“(a) *IN GENERAL.*—The Secretary may make competitive grants for the acquisition of special purpose scientific research equipment for use in the food and agricultural sciences programs of eligible institutions described in subsection (b).

“(b) *ELIGIBLE INSTITUTIONS.*—The Secretary may make a grant under this section to—

“(1) a college or university; or

“(2) a State cooperative institution.

“(c) *MAXIMUM AMOUNT.*—The amount of a grant made to an eligible institution under this section may not exceed \$500,000.

“(d) **PROHIBITION ON CHARGE OF EQUIPMENT AS INDIRECT COSTS.**—The cost of acquisition or depreciation of equipment purchased with a grant under this section shall not be—

“(1) charged as an indirect cost against another Federal grant; or

“(2) included as part of the indirect cost pool for purposes of calculating the indirect cost rate of an eligible institution.

“(e) **AUTHORIZATION OF APPROPRIATIONS.**—There are authorized to be appropriated to carry out this section such sums as may be necessary for each of fiscal years 2002 through 2007.”.

**SEC. 7403. JOINT REQUESTS FOR PROPOSALS.**

(a) **PURPOSES.**—The purposes of this section are—

(1) to reduce the duplication of administrative functions relating to grant awards and administration among Federal agencies conducting similar types of research, education, and extension programs;

(2) to maximize the use of peer review resources in research, education, and extension programs; and

(3) to reduce the burden on potential recipients that may offer similar proposals to receive competitive grants under different Federal programs in overlapping subject areas.

(b) **AUTHORITY.**—The National Agricultural Research, Extension, and Teaching Policy Act of 1977 is amended by inserting after section 1473A (7 U.S.C. 3319a) the following:

**“SEC. 1473B. JOINT REQUESTS FOR PROPOSALS.**

“(a) **IN GENERAL.**—In carrying out any competitive agricultural research, education, or extension grant program authorized under this or any other Act, the Secretary may cooperate with 1 or more other Federal agencies (including the National Science Foundation) in issuing joint requests for proposals, awarding grants, and administering grants, for similar or related research, education, or extension projects or activities.

“(b) **ADMINISTRATION.**—

“(1) **SECRETARY.**—The Secretary may delegate authority to issue requests for proposals, make grant awards, or administer grants, in whole or in part, to a cooperating Federal agency.

“(2) **COOPERATING FEDERAL AGENCY.**—The cooperating Federal agency may delegate to the Secretary authority to issue requests for proposals, make grant awards, or administer grants, in whole or in part.

“(c) **REGULATIONS.**—The Secretary and a cooperating Federal agency may agree to make applicable to recipients of grants—

“(1) the post-award grant administration regulations applicable to recipients of grants from the Secretary; or

“(2) the post-award grant administration regulations applicable to recipients of grants from the cooperating Federal agency.

“(d) **JOINT PEER REVIEW PANELS.**—Subject to section 1413B, the Secretary and a cooperating Federal agency may establish joint peer review panels for the purpose of evaluating grant proposals.”.

**SEC. 7404. REVIEW OF AGRICULTURAL RESEARCH SERVICE.**

(a) **IN GENERAL.**—Not later than 90 days after the date of enactment of this Act, the Secretary shall establish a task force to—

(1) conduct a review of the Agricultural Research Service; and

(2) evaluate the merits of establishing one or more National Institutes focused on disciplines important to the progress of food and agricultural science.

(b) MEMBERSHIP.—

(1) IN GENERAL.—The Task Force shall consist of 8 members, appointed by the Secretary, that—

(A) have a broad-based background in plant, animal, and agricultural sciences research, food, nutrition, biotechnology, crop production methods, environmental science, or related disciplines; and

(B) are familiar with the role and infrastructure used to conduct Federal and private research, including—

(i) the Agricultural Research Service;

(ii) the National Institutes of Health;

(iii) the National Science Foundation;

(iv) the National Aeronautics and Space Administration;

(v) the Department of Energy laboratory system; or

(vi) the Cooperative State Research, Education, and Extension Service.

(2) PRIVATE SECTOR.—Of the members appointed under paragraph (1), the Secretary shall appoint at least 6 members that are members of the private sector or come from institutions of higher education.

(3) PLANT AND AGRICULTURAL SCIENCES RESEARCH.—Of the members appointed under paragraph (1), the Secretary shall appoint at least 3 members that have an extensive background and preeminence in the field of plant, animal, and agricultural sciences research.

(4) CHAIRPERSON.—Of the members appointed under paragraph (1), the Secretary shall designate a Chairperson that has significant leadership experience in educational and research institutions and indepth knowledge of the research enterprises of the United States.

(5) CONSULTATION.—Before appointing members of the Task Force under this subsection, the Secretary shall consult with the National Academy of Sciences and the Office of Science and Technology Policy.

(c) DUTIES.—The Task Force shall—

(1) conduct a review of the purpose, efficiency, effectiveness, and impact on agricultural research of the Agricultural Research Service;

(2) conduct a review and evaluation of the merits of establishing one or more National Institutes (such as National Institutes for Plant and Agricultural Sciences) focused on disciplines important to the progress of food and agricultural sciences, and, if establishment of one or more National Institutes is recommended, provide further recommendations to the Secretary, including the structure for establishing each Institute, the multistate area location of each Institute, and the amount of funding necessary to establish each Institute; and

(3) submit the reports required by subsection (d).

(d) *REPORTS.*—Not later than 12 months after the date of enactment of this Act, the Task Force shall submit to the Committee on Agriculture of the House of Representatives, the Committee on Agriculture, Nutrition, and Forestry of the Senate, and the Secretary—

(1) a report on the review and evaluation required under subsection (c)(1); and

(2) a report on the review and evaluation required under subsection (c)(2).

(e) *FUNDING.*—The Secretary shall use to carry out this section not more than 0.1 percent of the amount of appropriations available to the Agricultural Research Service for fiscal year 2003.

**SEC. 7405. BEGINNING FARMER AND RANCHER DEVELOPMENT PROGRAM.**

(a) *DEFINITION OF BEGINNING FARMER OR RANCHER.*—In this section, the term “beginning farmer or rancher” means a person that—

(1)(A) has not operated a farm or ranch; or

(B) has operated a farm or ranch for not more than 10 years; and

(2) meets such other criteria as the Secretary may establish.

(b) *PROGRAM.*—The Secretary shall establish a beginning farmer and rancher development program to provide training, education, outreach, and technical assistance initiatives for beginning farmers or ranchers.

(c) *GRANTS.*—

(1) *IN GENERAL.*—In carrying out this section, the Secretary shall make competitive grants to support new and established local and regional training, education, outreach, and technical assistance initiatives for beginning farmers or ranchers, including programs and services (as appropriate) relating to—

(A) mentoring, apprenticeships, and internships;

(B) resources and referral;

(C) assisting beginning farmers or ranchers in acquiring land from retiring farmers and ranchers;

(D) innovative farm and ranch transfer strategies;

(E) entrepreneurship and business training;

(F) model land leasing contracts;

(G) financial management training;

(H) whole farm planning;

(I) conservation assistance;

(J) risk management education;

(K) diversification and marketing strategies;

(L) curriculum development;

(M) understanding the impact of concentration and globalization;

(N) basic livestock and crop farming practices;

(O) the acquisition and management of agricultural credit;

(P) environmental compliance;

(Q) information processing; and

(R) other similar subject areas of use to beginning farmers or ranchers.

(2) *ELIGIBILITY.*—To be eligible to receive a grant under this subsection, the recipient shall be a collaborative State, trib-

*al, local, or regionally-based network or partnership of public or private entities, which may include—*

*(A) a State cooperative extension service;*

*(B) a Federal, State, or tribal agency;*

*(C) a community-based and nongovernmental organization;*

*(D) a college or university (including an institution awarding an associate's degree) or foundation maintained by a college or university; or*

*(E) any other appropriate partner, as determined by the Secretary.*

*(3) TERM OF GRANT.—The term of a grant under this subsection shall not exceed 3 years.*

*(4) MATCHING REQUIREMENT.—To be eligible to receive a grant under this subsection, a recipient shall provide a match in the form of cash or in-kind contributions in an amount equal to 25 percent of the funds provided by the grant.*

*(5) SET-ASIDE.—Not less than 25 percent of funds used to carry out this subsection for a fiscal year shall be used to support programs and services that address the needs of—*

*(A) limited resource beginning farmers or ranchers (as defined by the Secretary);*

*(B) socially disadvantaged beginning farmers or ranchers (as defined in section 355(e) of the Consolidated Farm and Rural Development Act (7 U.S.C. 2003(e)); and*

*(C) farmworkers desiring to become farmers or ranchers.*

*(6) PROHIBITION.—A grant made under this subsection may not be used for the planning, repair, rehabilitation, acquisition, or construction of a building or facility.*

*(7) ADMINISTRATIVE COSTS.—The Secretary shall use not more than 4 percent of the funds made available to carry out this subsection for administrative costs incurred by the Secretary in carrying out this section.*

*(d) EDUCATION TEAMS.—*

*(1) IN GENERAL.—In carrying out this section, the Secretary shall establish beginning farmer and rancher education teams to develop curricula and conduct educational programs and workshops for beginning farmers or ranchers in diverse geographical areas of the United States.*

*(2) CURRICULUM.—In promoting the development of curricula, the Secretary shall, to the maximum extent practicable, include modules tailored to specific audiences of beginning farmers or ranchers, based on crop or regional diversity.*

*(3) COMPOSITION.—In establishing an education team for a specific program or workshop, the Secretary shall, to the maximum extent practicable—*

*(A) obtain the short-term services of specialists with knowledge and expertise in programs serving beginning farmers or ranchers; and*

*(B) use officers and employees of the Department with direct experience in programs of the Department that may be taught as part of the curriculum for the program or workshop.*

**(4) COOPERATION.—**

(A) *IN GENERAL.*—*In carrying out this subsection, the Secretary shall cooperate, to the maximum extent practicable, with—*

- (i) *State cooperative extension services;*
- (ii) *Federal and State agencies;*
- (iii) *community-based and nongovernmental organizations;*
- (iv) *colleges and universities (including an institution awarding an associate's degree) or foundations maintained by a college or university; and*
- (v) *other appropriate partners, as determined by the Secretary.*

(B) *COOPERATIVE AGREEMENT.*—*Notwithstanding chapter 63 of title 31, United States Code, the Secretary may enter into a cooperative agreement to reflect the terms of any cooperation under subparagraph (A).*

(e) *CURRICULUM AND TRAINING CLEARINGHOUSE.*—*The Secretary shall establish an online clearinghouse that makes available to beginning farmers or ranchers education curricula and training materials and programs, which may include online courses for direct use by beginning farmers or ranchers.*

(f) *STAKEHOLDER INPUT.*—*In carrying out this section, the Secretary shall seek stakeholder input from—*

- (1) *beginning farmers and ranchers;*
- (2) *national, State, tribal, and local organizations and other persons with expertise in operating beginning farmer and rancher programs; and*
- (3) *the Advisory Committee on Beginning Farmers and Ranchers established under section 5 of the Agricultural Credit Improvement Act of 1992 (7 U.S.C. 1929 note; Public Law 102-554).*

(g) *PARTICIPATION BY OTHER FARMERS AND RANCHERS.*—*Nothing in this section prohibits the Secretary from allowing farmers and ranchers who are not beginning farmers or ranchers from participating in programs authorized under this section to the extent that the Secretary determines that such participation is appropriate and will not detract from the primary purpose of educating beginning farmers and ranchers.*

(h) *Authorization of Appropriations.*—*There are authorized to be appropriated to carry out this section such sums as may be necessary for each of fiscal years 2002 through 2007.*

**SEC. 7406. SENSE OF CONGRESS REGARDING DOUBLING OF FUNDING FOR AGRICULTURAL RESEARCH.**

*It is the sense of Congress that—*

- (1) *Federal funding for food and agricultural research has been essentially constant for 2 decades, putting at risk the scientific base on which food and agricultural advances have been made;*
- (2) *the resulting increase in the relative proportion of private sector, industry investments in food and agricultural research has led to questions about the independence and objectivity of research and outreach conducted by the Federal and university research sectors; and*

(3) *funding for food and agricultural research should be at least doubled over the next 5 fiscal years—*

(A) *to restore the balance between public and private sector funding for food and agricultural research; and*

(B) *to maintain the scientific base on which food and agricultural advances are made.*

**SEC. 7407. ORGANIC PRODUCTION AND MARKET DATA INITIATIVES.**

*The Secretary shall ensure that segregated data on the production and marketing of organic agricultural products is included in the ongoing baseline of data collection regarding agricultural production and marketing.*

**SEC. 7408. INTERNATIONAL ORGANIC RESEARCH COLLABORATION.**

*The Secretary, acting through the Agricultural Research Service (including the National Agricultural Library) and the Economic Research Service, shall facilitate access by research and extension professionals, farmers, and other interested persons in the United States to, and the use by those persons of, organic research conducted outside the United States.*

**SEC. 7409. REPORT ON PRODUCERS AND HANDLERS OF ORGANIC AGRICULTURAL PRODUCTS.**

*Not later than 1 year after funds are made available to carry out this section, the Secretary shall submit to Congress a report that—*

(1) *describes—*

(A) *the extent to which producers and handlers of organic agricultural products are contributing to research and promotion programs of the Department;*

(B) *the extent to which producers and handlers of organic agricultural products are surveyed for ideas for research and promotion;*

(C) *ways in which the programs reflect the contributions made by producers and handlers of organic agricultural products and directly benefit the producers and handlers; and*

(D) *the implementation of initiatives that directly benefit organic producers and handlers; and*

(2) *evaluates industry and other proposals for improving the treatment of certified organic agricultural products under Federal marketing orders, including proposals to target additional resources for research and promotion of organic products and to differentiate between certified organic and other products in new or existing volume limitations or other orderly marketing requirements.*

**SEC. 7410. REPORT ON GENETICALLY MODIFIED PEST-PROTECTED PLANTS.**

*It is the sense of Congress that, not later than 1 year after the date of enactment of this Act, the Secretary should—*

(1) *review the recommendations of the Committee on Genetically Modified Pest-Protected Plants of the Board on Agriculture and Natural Resources of the National Research Council made during 2000 and the Committee on Environmental Impacts Associated with Commercialization of Transgenic Plants made during 2002, concerning food safety, ecological research,*

*monitoring needs for transgenic crops with plant incorporated protectants, and the environmental effects of transgenic plants; and*

*(2) submit to the Committee on Agriculture of the House of Representatives and the Committee on Agriculture, Nutrition, and Forestry of the Senate a report that describes actions taken to implement those recommendations by agencies within the Department, including agencies that develop or implement programs or objectives relating to marketing, regulation, food safety, research, education, or economics.*

**SEC. 7411. STUDY OF NUTRIENT BANKING.**

*(a) IN GENERAL.—The Secretary may conduct a study to evaluate nutrient banking for the purpose of enhancing the health and viability of watersheds in areas with large concentrations of animal producing units.*

*(b) COMPONENTS.—In conducting any study under subsection (a), the Secretary shall evaluate the costs, needs, and means by which litter may be collected and distributed outside the applicable watershed to reduce potential point source and nonpoint source phosphorous pollution.*

*(c) REPORT.—The Secretary shall submit to the Committee on Agriculture of the House of Representatives and the Committee on Agriculture, Nutrition, and Forestry of the Senate a report that describes the results of any study conducted under subsection (a).*

**SEC. 7412. GRANTS FOR YOUTH ORGANIZATIONS.**

*Title IV of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7621 et seq.) (as amended by section 7206(e)) is amended by adding at the end the following:*

**“SEC. 410. GRANTS FOR YOUTH ORGANIZATIONS.**

*“(a) IN GENERAL.—The Secretary, acting through the Administrator of the Cooperative State Research, Education, and Extension Service, shall make grants to the Girl Scouts of the United States of America, the Boy Scouts of America, the National 4-H Council, and the National FFA Organization to establish pilot projects to expand the programs carried out by the organizations in rural areas and small towns (including, with respect to the National 4-H Council, activities provided for in Public Law 107-19 (115 Stat. 153)).*

*“(b) FUNDING.—Of the funds of the Commodity Credit Corporation, the Secretary shall make available \$8,000,000 for fiscal year 2002, which shall remain available until expended.*

*“(c) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section such sums as are necessary for each of fiscal years 2003 through 2007.”.*

## **Subtitle E—Miscellaneous**

**SEC. 7501. RESIDENT INSTRUCTION AND DISTANCE EDUCATION AT INSTITUTIONS OF HIGHER EDUCATION IN UNITED STATES INSULAR AREAS.**

*(a) PURPOSE.—It is the purpose of this subtitle to promote and strengthen higher education in the food and agricultural sciences at institutions of higher education (as defined in section 101(a) of the Higher Education Act of 1965 (20 U.S.C. 1001(a))) that have de-*

monstrable capacity to carry out teaching and extension programs in food and agricultural sciences and that are located in the insular areas of the Commonwealth of Puerto Rico, the Virgin Islands of the United States, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, the Federated States of Micronesia, the Republic of the Marshall Islands, or the Republic of Palau by formulating and administering programs to enhance teaching programs in agriculture, natural resources, forestry, veterinary medicine, home economics, and disciplines closely allied to the food and agriculture production and delivery systems.

**SEC. 7502. DEFINITIONS.**

(a) *IN GENERAL.*—Section 1404 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3103) is amended—

(1) by redesignating paragraphs (10) through (17) as paragraphs (11) through (18), respectively;

(2) by inserting after paragraph (9) the following:

“(10) *INSULAR AREA.*—The term ‘insular area’ means—

“(A) the Commonwealth of Puerto Rico;

“(B) Guam;

“(C) American Samoa;

“(D) the Commonwealth of the Northern Mariana Islands;

“(E) the Federated States of Micronesia;

“(F) the Republic of the Marshall Islands;

“(G) the Republic of Palau; and

“(H) the Virgin Islands of the United States.”; and

(3) by striking paragraph (13) (as so redesignated) and inserting the following:

“(13) *STATE.*—The term ‘State’ means—

“(A) a State;

“(B) the District of Columbia; and

“(C) any insular area.”.

(b) *EFFECT OF AMENDMENTS.*—The amendments made by subsection (a) shall not affect any basis for distribution of funds by formula (in effect on the date of enactment of this Act) to—

(1) the Federated States of Micronesia;

(2) the Republic of the Marshall Islands; or

(3) the Republic of Palau.

**SEC. 7503. RESIDENT INSTRUCTION AND DISTANCE EDUCATION GRANTS PROGRAM FOR INSULAR AREA INSTITUTIONS OF HIGHER EDUCATION.**

The National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. 3101 et seq.) is amended by adding at the end the following:

**“Subtitle O—Institutions of Higher Education in Insular Areas**

**“SEC. 1489. DEFINITION.**

“For the purposes of this subtitle, the term ‘eligible institution’ means an institution of higher education (as defined in section 101(a) of the Higher Education Act of 1965 (20 U.S.C. 1001(a)) in

*an insular area that has demonstrable capacity to carry out teaching and extension programs in the food and agricultural sciences.*

**“SEC. 1490. DISTANCE EDUCATION GRANTS FOR INSULAR AREAS.**

*“(a) IN GENERAL.—The Secretary may make competitive or non-competitive grants to eligible institutions in insular areas to strengthen the capacity of such institutions to carry out distance food and agricultural education programs using digital network technologies.*

*“(b) USE.—Grants made under this section shall be used—*

*“(1) to acquire the equipment, instrumentation, networking capability, hardware and software, digital network technology, and infrastructure necessary to teach students and teachers about technology in the classroom;*

*“(2) to develop and provide educational services (including faculty development) to prepare students or faculty seeking a degree or certificate that is approved by the State or a regional accrediting body recognized by the Secretary of Education;*

*“(3) to provide teacher education, library and media specialist training, and preschool and teacher aid certification to individuals who seek to acquire or enhance technology skills in order to use technology in the classroom or instructional process;*

*“(4) to implement a joint project to provide education regarding technology in the classroom with a local educational agency, community-based organization, national nonprofit organization, or business; or*

*“(5) to provide leadership development to administrators, board members, and faculty of eligible institutions with institutional responsibility for technology education.*

*“(c) LIMITATION ON USE OF GRANT FUNDS.—Funds provided under this section shall not be used for the planning, acquisition, construction, rehabilitation, or repair of a building or facility.*

*“(d) ADMINISTRATION OF PROGRAM.—The Secretary may carry out this section in a manner that recognizes the different needs and opportunities for eligible institutions in the Atlantic and Pacific Oceans.*

*“(e) MATCHING REQUIREMENT.—*

*“(1) IN GENERAL.—The Secretary may establish a requirement that an eligible institution receiving a grant under this section shall provide matching funds from non-Federal sources in an amount equal to not less than 50 percent of the grant.*

*“(2) WAIVERS.—If the Secretary establishes a matching requirement under paragraph (1), the Secretary shall retain an option to waive the requirement for an eligible institution for any fiscal year if the Secretary determines that the institution will be unlikely to meet the matching requirement for the fiscal year.*

*“(f) AUTHORIZATION OF APPROPRIATIONS.—There is authorized to be appropriated to carry out this section such sums as may be necessary for each of fiscal years 2002 through 2007.*

**“SEC. 1491. RESIDENT INSTRUCTION GRANTS FOR INSULAR AREAS.**

*“(a) IN GENERAL.—The Secretary of Agriculture shall make competitive grants to eligible institutions to—*

“(1) strengthen institutional educational capacities, including libraries, curriculum, faculty, scientific instrumentation, instruction delivery systems, and student recruitment and retention, in order to respond to identified State, regional, national, or international education needs in the food and agricultural sciences;

“(2) attract and support undergraduate and graduate students in order to educate them in identified areas of national need in the food and agriculture sciences;

“(3) facilitate cooperative initiatives between two or more insular area eligible institutions, or between those institutions and units of State Government or organizations in the private sector, to maximize the development and use of resources such as faculty, facilities, and equipment to improve food and agricultural sciences teaching programs; and

“(4) conduct undergraduate scholarship programs to assist in meeting national needs for training food and agricultural scientists

“(b) GRANT REQUIREMENTS.—

“(1) The Secretary of Agriculture shall ensure that each eligible institution, prior to receiving grant funds under subsection (a), shall have a significant demonstrable commitment to higher education programs in the food and agricultural sciences and to each specific subject area for which grant funds under this section are to be used.

“(2) The Secretary of Agriculture may require that any grant awarded under this section contain provisions that require funds to be targeted to meet the needs identified in section 1402.

“(e) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated such sums as are necessary for each of the fiscal years 2002 through 2007 to carry out this section.”

**SEC. 7504. DECLARATION OF EXTRAORDINARY EMERGENCY AND RESULTING AUTHORITIES.**

(a) REVIEW OF PAYMENT OF COMPENSATION.—Section 415(e) of the Plant Protection Act (7 U.S.C. 7715(e)) is amended by inserting before the final period the following: “or a review of longer than 60 days by any officer or employee of the Federal Government other than the Secretary or the designee of the Secretary”.

(b) REVIEW OF CERTAIN DECISIONS.—Section 442 of the Plant Protection Act (7 U.S.C. 7772) is amended by adding at the end the following new subsection:

“(c) SECRETARIAL DISCRETION.—The action of any officer, employee, or agent of the Secretary in carrying out this Act, including determining the amount of and making any payment authorized to be made under this title, shall not be subject to a review of longer than 60 days by any officer or employee of the Federal Government other than the Secretary or the designee of the Secretary.”

(c) METHYL BROMIDE.—The Plant Protection Act (7 U.S.C. 7701 et seq.) is amended by inserting after section 418 the following new section:

**“SEC. 419. METHYL BROMIDE.**

“(a) *IN GENERAL.*—The Secretary, upon request of State, local, or tribal authorities, shall determine whether methyl bromide treatments or applications required by State, local, or tribal authorities to prevent the introduction, establishment, or spread of plant pests (including diseases) or noxious weeds should be authorized as an official control or official requirement. The Secretary shall not authorize such treatments or applications unless the Secretary finds there is no other registered, effective, and economically feasible alternative available.

“(b) *METHYL BROMIDE ALTERNATIVE.*—The Secretary, in consultation with State, local and tribal authorities, shall establish a program to identify alternatives to methyl bromide for treatment and control of plant pests and weeds. For uses where no registered, effective, economically feasible alternatives available can currently be identified, the Secretary shall initiate research programs to develop alternative methods of control and treatment.

“(c) *REGISTRY.*—Not later than 180 days after the date of enactment of this section, the Secretary shall publish, and thereafter maintain, a registry of State, local, and tribal requirements authorized by the Secretary under this section.

“(d) *ADMINISTRATION.*—

“(1) *TIMELINE FOR DETERMINATION.*—Upon the promulgation of regulations to carry out this section, the Secretary shall make the determination required by subsection (a) not later than 90 days after receiving the request for such a determination.

“(2) *CONSTRUCTION.*—Nothing in this section shall be construed to alter or modify the authority of the Administrator of the Environmental Protection Agency or to provide any authority to the Secretary of Agriculture under the Clean Air Act or regulations promulgated under the Clean Air Act.”.

**SEC. 7505. AGRICULTURAL BIOTECHNOLOGY RESEARCH AND DEVELOPMENT FOR DEVELOPING COUNTRIES.**

Title IV of the Agricultural Research, Extension, and Education Reform Act of 1998 (7 U.S.C. 7621 et seq.) is amended by adding at the end the following:

**“SEC. 411. AGRICULTURAL BIOTECHNOLOGY RESEARCH AND DEVELOPMENT FOR DEVELOPING COUNTRIES.**

“(a) *ELIGIBLE ENTITY.*—In this section, the term ‘eligible entity’ means—

“(A) an institution of higher education that offers a curriculum in agriculture or the biosciences;

“(B) a nonprofit organization; or

“(C) a consortium of for-profit institutions and agricultural research institutions.

“(b) *GRANT PROGRAM.*—

“(1) *IN GENERAL.*—The Secretary (acting through the Foreign Agricultural Service) shall establish and administer a program to make competitive grants to eligible entities to develop agricultural biotechnology for developing countries.

“(2) *USE OF FUNDS.*—Funds provided to an eligible entity under this section may be used for projects that use biotechnology to—

“(A) enhance the nutritional content of agricultural products that can be grown in developing countries;

“(B) increase the yield and safety of agricultural products that can be grown in developing countries;

“(C) increase the yield of agricultural products that are drought- and stress-resistant and that can be grown in developing countries;

“(D) extend the growing range of crops that can be grown in developing countries;

“(E) enhance the shelf-life of fruits and vegetables grown in developing countries;

“(F) develop environmentally sustainable agricultural products that can be grown in developing countries; and

“(G) develop vaccines to immunize against life-threatening illnesses and other medications that can be administered by consuming genetically-engineered agricultural products.

“(c) **AUTHORIZATION OF APPROPRIATIONS.**—There are authorized to be appropriated such sums as may be necessary to carry out this section for each of fiscal years 2002 through 2007.”.

**SEC. 7506. LAND ACQUISITION AUTHORITY, NATIONAL PEANUT RESEARCH LABORATORY, DAWSON, GEORGIA.**

The limitation on the authority of the Agricultural Research Service to acquire lands by purchase using funds appropriated under the heading **AGRICULTURAL RESEARCH SERVICE-SALARIES AND EXPENSES** in the Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations Act, 2002 (Public Law 107-76; 115 Stat. 708), shall not apply to the purchase of land for a research farm for the National Peanut Research Laboratory in Dawson, Georgia, for which a lease with an option to purchase has been entered into before the date of enactment of this Act.

## **TITLE VIII—FORESTRY**

### **Subtitle A—Cooperative Forestry Assistance Act of 1978**

**SEC. 8001. REPEAL OF FORESTRY INCENTIVES PROGRAM AND STEWARDSHIP INCENTIVE PROGRAM.**

(a) **REPEAL.**—The Cooperative Forestry Assistance Act of 1978 is amended by striking section 4 (16 U.S.C. 2103) and section 6 (16 U.S.C. 2103b).

(b) **USE OF REMAINING FUNDS.**—Notwithstanding the amendment made by subsection (a), the Secretary of Agriculture may use funds appropriated for fiscal year 2002 for the forestry incentives program or the stewardship incentive program, but not expended before the date of enactment of this Act, to carry out sections 4 and 6 of the Cooperative Forestry Assistance Act of 1978, as in effect on the date before the date of enactment of this Act.