117TH CONGRESS 1ST SESSION H.R. 2803

To address the impact of climate change on agriculture, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

April 22, 2021

Ms. PINGREE (for herself, Ms. BARRAGÁN, Mr. BLUMENAUER, Ms. BROWNLEY, Mr. CARBAJAL, Mr. COHEN, Mr. CONNOLLY, Mrs. HAYES, Mr. KHANNA, Ms. KUSTER, Mr. MCGOVERN, Ms. NORTON, Mr. QUIGLEY, Mr. RASKIN, Mr. RYAN, Mr. SMITH of Washington, Ms. SPANBERGER, and Mr. WELCH) introduced the following bill; which was referred to the Committee on Agriculture, and in addition to the Committees on Ways and Means, Education and Labor, Energy and Commerce, Oversight and Reform, and House Administration, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To address the impact of climate change on agriculture, and for other purposes.

1 Be it enacted by the Senate and House of Representa-

2 tives of the United States of America in Congress assembled,

3 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

4 (a) SHORT TITLE.—This Act may be cited as the

5 "Agriculture Resilience Act".

(b) TABLE OF CONTENTS.—The table of contents for

2 this bill is as follows:

Sec. 1. Short title; table of contents.

TITLE I—NATIONAL GOAL

Sec. 101. Goals.

1

Sec. 102. Action plan.

TITLE II—RESEARCH

- Sec. 201. Research, extension, and education purpose.
- Sec. 202. Regional hubs for risk adaptation and mitigation to climate change.
- Sec. 203. Sustainable agriculture research and education resilience initiative.
- Sec. 204. Sustainable agriculture technology development and transfer program.
- Sec. 205. Long-Term Agroecological Network.
- Sec. 206. Public breed and cultivar research.
- Sec. 207. ARS Climate Scientist Career Development Program.
- Sec. 208. Agricultural Climate Adaptation and Mitigation through AFRI.
- Sec. 209. Specialty crop research initiative.
- Sec. 210. Integrated pest management.
- Sec. 211. National Academy of Sciences Study.
- Sec. 212. Appropriate technology transfer to rural areas.

TITLE III—SOIL HEALTH

- Sec. 301. Crop insurance.
- Sec. 302. Environmental Quality Incentives Program.
- Sec. 303. Conservation Stewardship Program.
- Sec. 304. State assistance for soil health.
- Sec. 305. Funding and administration.
- Sec. 306. Carbon tax credit feasibility study.
- Sec. 307. Conservation compliance.
- Sec. 308. Agroforestry centers.

TITLE IV—FARMLAND PRESERVATION AND FARM VIABILITY

- Sec. 401. Local Agriculture Market Program.
- Sec. 402. Organic certification cost-share program.
- Sec. 403. Exclusion of gain from sale of certain farm property and agricultural easements.
- Sec. 404. Farmland Protection Policy Act.
- Sec. 405. Agriculture conservation easement program.

TITLE V—PASTURE-BASED LIVESTOCK

- Sec. 501. Animal raising claims.
- Sec. 502. Processing Resilience Grant Program.
- Sec. 503. Conservation of private grazing land.
- Sec. 504. Conservation reserve program.
- Sec. 505. Alternative Manure Management Program.

TITLE VI—ON-FARM RENEWABLE ENERGY

Sec. 601. Rural Energy For America Program.

Sec. 602. Study on dual-use renewable energy systems. Sec. 603. AgSTAR program.

TITLE VII—FOOD LOSS AND WASTE

Subtitle A—Food Date Labeling

- Sec. 701. Definitions.
- Sec. 702. Quality dates and discard dates.
- Sec. 703. Misbranding.
- Sec. 704. Regulations.
- Sec. 705. Delayed applicability.

Subtitle B—Other Provisions

Sec. 711. Composting as conservation practice.

- Sec. 712. Amendments to Federal Food Donation Act.
- Sec. 713. Grants for composting and anaerobic digestion food waste-to-energy projects.

Sec. 714. School food waste reduction grant program.

TITLE I—NATIONAL GOAL

2 SEC. 101. GOALS.

1

3 (a) UNITED STATES AGRICULTURE GOAL.—As part 4 of a national greenhouse gas emission reduction effort to 5 prevent climate change from exceeding 1.5 degrees Celsius of warming above preindustrial levels, the goal for the ag-6 7 ricultural sector in the United States shall be to achieve at least a 50 percent reduction in net greenhouse gases 8 9 from 2010 levels by not later than 2030 and to achieve 10 net zero emissions by not later than 2040.

- 11 (b) SUBGOALS.—
- (1) RESEARCH.—To help achieve the goal specified in subsection (a), the total Federal investment
 in public food and agriculture research and extension should, at a minimum, triple by not later than
 2030 and quadruple by not later than 2040, with a

1	heightened emphasis on climate change adaptation
2	and mitigation, soil health and carbon sequestration,
3	nutrient and manure management to curb nitrous
4	oxide and methane emissions, agroforestry, advanced
5	grazing management and crop-livestock integration,
6	other agro-ecological systems, on-farm and food sys-
7	tem energy efficiency and renewable energy produc-
8	tion, farmland preservation and viability, food waste
9	reduction, and related topics to accelerate progress
10	toward net zero emissions by not later than 2040.
11	(2) Soil Health.—To help achieve the goal
12	specified in subsection (a) the United States
13	should—
14	(A) immediately become a member of the
15	4 per 1000 Initiative's forum and consortium,
16	hosted by the Consultative Group for Inter-
17	national Agricultural Research (commonly re-
18	ferred to as the "CGIAR"), with the aim of in-
19	creasing total soil carbon stocks by 0.4 percent
20	annually to reduce carbon in the atmosphere,
21	restore soil health and productivity, and thereby
22	improve food security;
23	(B) expand adoption of soil health prac-
24	tices (including diverse crop rotations, cover
	tices (including triverse crop rotations, cover

cropping, conservation tillage, perennial crop

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1	production systems, agroforestry, composting,
2	biologically based nutrient management, and
3	advanced grazing management including
4	silvopasture) sufficiently to—
5	(i) reduce nitrous oxide emissions
6	from agricultural soils in the United States
7	by 25 percent by not later than 2030 and
8	75 percent by not later than 2040; and
9	(ii) increase soil carbon stocks by 0.4
10	percent annually on at least 50 percent of
11	United States agricultural lands by not
12	later than 2030, and to meet or exceed
13	that threshold on all United States agricul-
14	tural lands by not later than 2040;
15	(C) expand implementation of regionally
16	appropriate cover crops and other continual liv-
17	ing cover so that—
18	(i) at least 50 percent of cropland
19	acres nationwide include one or more cover
20	crops or other continual living cover in
21	their rotations by not later than 2030, ris-
22	ing to at least 75 percent of cropland acres
23	nationwide by not later than 2040; and
24	(ii) cropland acres are covered by
25	crops (including forages and hay crops),

1	cover crops, or residue for an average of
2	75 percent of the calendar year by not
3	later than 2030, rising to at least 85 per-
4	cent of the calendar year by not later than
5	2040; and
6	(D) encourage conversion of at least 15
7	percent of current annual grain crop acres to
8	agroforestry, perennial grazing, perennial grain
9	crops, or other perennial production systems by
10	not later than 2030, rising to at least 30 per-
11	cent by not later than 2040.
12	(3) FARMLAND PRESERVATION.—To help
13	achieve the goal specified in subsection (a), the rate
14	of conversion in the United States of agricultural
15	land to development, as well as the rate of grassland
16	conversion to cropping, should be reduced by at least
17	80 percent by not later than 2030 and eliminated by
18	not later than 2040.
19	(4) PASTURE-BASED LIVESTOCK.—To help
20	achieve the goal specified in subsection (a), the live-
21	stock sector in the United States should—
22	(A) establish advanced grazing manage-
23	ment, including management-intensive rota-
24	tional grazing, on at least 50 percent of all
25	grazing lands by not later than 2030 and 100
-	

percent of all grazing land by not later than 2040;

3 (B) reduce greenhouse gas emissions re-4 lated to feeding of ruminants by at least a third 5 by not later than 2030 and by at least 50 per-6 cent by not later than 2040 by reducing non-7 grazing feeding of ruminants, growing feed 8 grains and forages with soil health and nutrient 9 management practices that minimize net green-10 house gas emissions from cropland, and design-11 ing livestock feed mixtures and supplements to 12 mitigate enteric methane emissions;

13 (C) re-integrate livestock and crop produc-14 tion systems at farm, local and regional levels 15 to facilitate environmentally sound management 16 and field application of manure and reduce the 17 need for long-term manure storage by increas-18 ing acreage on individual farms under crop-live-19 stock integrated management by at least 100 20 percent over 2017 levels by not later than 2030 21 and by 300 percent over 2017 levels by not 22 later than 2040; and

(D) immediately cease building any new or
expanded waste lagoons for confined animal
feeding operations and convert at least one

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1	third of wet manure handling and storage to al-
2	ternative manure management (as described in
3	section 1240T of the Food Security Act of
4	1985 (as added by this Act)) by not later than
5	2030 and at least two thirds by not later than
6	2040.
7	(5) ON-FARM RENEWABLE ENERGY.—To help
8	achieve the goal specified in subsection (a), the agri-
9	culture sector in the United States should—
10	(A) implement energy audits and energy
11	efficiency improvements on at least 50 percent
12	of farms by not later than 2030 and 100 per-
13	cent of farms by not later than 2040;
14	(B) expand on-farm clean renewable en-
15	ergy production to at least double 2017 levels
16	by not later than 2030 and at least triple by
17	not later than 2040; and
18	(C) install and manage on-farm renewable
19	energy infrastructure in a way that does not
20	compromise the climate resilience and green-
21	house gas mitigation goals of this Act or ad-
22	versely impact farmland, soil, and water re-
23	sources, or food production.
24	(6) FOOD LOSS AND WASTE.—Consistent with
25	the Food Waste Challenge launched by the Depart-

1	ment of Agriculture and the Environmental Protec-
2	tion Agency in June 2013 and the national food loss
3	and waste goal announced in September 2015, the
4	food and agriculture sector in the United States
5	should commit to—
6	(A) at least a 50 percent reduction in food
7	loss and waste by not later than 2030;
8	(B) at least a 75 percent reduction in food
9	loss and waste by not later than 2040; and
10	(C) in a manner consistent with the Food
11	Recovery Hierarchy established by the Environ-
12	mental Protection Agency, diverting from land-
13	fills through composting and other means at
14	least 50 percent of unavoidable food waste and
15	food processing byproducts by not later than
16	2030, and 90 percent of such food waste and
17	byproducts by not later than 2040.
18	SEC. 102. ACTION PLAN.

(a) PLAN DEVELOPMENT.—The Secretary shall develop a plan for actions to achieve, in combination with
the other Federal agencies, the national goals declared by
section 101. The plan shall include actions that will make
significant and rapid progress toward meeting such goals.
(b) ACTIONS TO MEET GOALS.—

1	(1) IN GENERAL.—Actions selected by the Sec-	
2	retary to include in a plan developed under sub-	
3	section (a) may include issuing regulations, pro-	
4	viding incentives, carrying out research and develop-	
5	ment programs, and any other action the Secretary	
6	determines appropriate to achieve the goals declared	
7	by section 101.	
8	(2) Selection.—In selecting actions to include	
9	in a plan developed under subsection (a), the Sec-	
10	retary shall select actions designed to—	
11	(A) fully implement the provisions of this	
12	Act (and the amendments made by this Act);	
13	(B) provide benefits for farmers and	
14	ranchers, rural communities, small businesses,	
15	and consumers;	
16	(C) improve public health, resilience, and	
17	environmental outcomes, especially for rural	
18	and low-income households, communities of	
19	color, Tribal and indigenous communities, and	
20	communities that are disproportionately vulner-	
21	able to the impacts of climate change, air and	
22	water pollution, and other resource degradation;	
23	and	
24	(D) prioritize investments that reduce	
25	emissions of greenhouse gases and sequester	

1carbon while simultaneously helping to solve2other pressing agro-environmental resource con-3cerns, increase farming and ranching opportuni-4ties, create quality jobs, improve farmworker5working conditions and living standards, and6make communities more resilient to the effects7of climate change.

8 (c) Plan Implementation.—

9 (1) PUBLIC COMMENT.—Not later than 12
10 months after the date of enactment of this Act, the
11 Secretary shall make the proposed plan developed
12 under subsection (a) available for public comment.

(2) SUBMISSION.—Not later than 18 months
after the date of enactment of this Act, the Secretary shall make public and submit to Congress a
plan developed under subsection (a) that incorporates revisions to the proposed plan, as appropriate, to address the recommendations provided by
the public pursuant to paragraph (1).

20 (3) IMPLEMENTATION.—Beginning not later
21 than 18 months after the date of enactment of this
22 Act, the Secretary shall implement the plan devel23 oped under subsection (a) and submitted to Con24 gress under paragraph (2).

(4) REVISIONS.—Beginning 24 months after 1 2 the date on which the Secretary submits to Congress 3 the plan under paragraph (2) and not less frequently 4 than once every 24 months thereafter, the Secretary 5 shall review and revise the plan to ensure it is suffi-6 cient to achieve the national goals declared by sec-7 tion 101. The Secretary shall include the conclusion 8 of each such review and any revised plan resulting 9 from such review in the next annual report required 10 under paragraph (5). 11 (5) ANNUAL REPORT.—The Secretary shall 12 issue an annual public report on the plan (including 13 any revisions to such plan), actions taken pursuant 14 to such plan, and the effects of such actions, during 15 the preceding calendar year. TITLE II—RESEARCH 16 SEC. 201. RESEARCH, EXTENSION, AND EDUCATION PUR-17 18 POSE. 19 Section 1402 of the National Agricultural Research, 20 Extension, and Teaching Policy Act of 1977 (7 U.S.C. 21 3101) is amended— 22 (1) by redesignating paragraphs (8) and (9) as 23 paragraphs (9) and (10), respectively; and 24 (2) by inserting after paragraph (7) the fol-25 lowing:

"(8) accelerate the ability of agriculture and the
 food system of the United States to first achieve net
 zero carbon emissions and then go further to be car bon positive by removing additional carbon dioxide
 from the atmosphere;".

6 SEC. 202. REGIONAL HUBS FOR RISK ADAPTATION AND 7 MITIGATION TO CLIMATE CHANGE.

8 Title IV of the Agricultural Research, Extension, and 9 Education Reform Act of 1998 is amended by inserting 10 before section 404 (7 U.S.C. 7624) the following new sec-11 tion:

12 "SEC. 401. REGIONAL HUBS FOR RISK ADAPTATION AND 13 MITIGATION TO CLIMATE CHANGE.

14 "(a) ESTABLISHMENT.—The Secretary shall estab-15 lish a national network of regional hubs for risk adaptation and mitigation to climate change to deliver science-16 based, region-specific, cost-effective, and practical infor-17 mation and program support to farmers, ranchers, forest 18 19 landowners, and other agricultural and natural resource 20 managers to support science-informed decision-making in 21 light of the increased costs, opportunities, risks, and 22 vulnerabilities associated with a changing climate, and to 23 provide access to assistance to implement those decisions. 24 "(b) ELIGIBILITY.—An entity is eligible to be selected 25 as a regional hub under subsection (a) if such entity is

1	any office of the Agricultural Research Service, the Forest
2	Service, or any other agency of the Department of Agri-
3	culture that the Secretary determines is appropriate.
4	"(c) Administration.—
5	"(1) IN GENERAL.—The network established
6	under subsection (a) shall be designated and admin-
7	istered jointly by the Agricultural Research Service
8	and the Forest Service, in partnership with other
9	Federal agencies, including the following:
10	"(A) Within the Department of Agri-
11	culture, the following agencies:
12	"(i) The Natural Resource Conserva-
13	tion Service.
14	"(ii) The Farm Service Agency.
15	"(iii) The Risk Management Agency.
16	"(iv) The Animal and Plant Health
17	Inspection Service.
18	"(v) The National Institute for Food
19	and Agriculture.
20	"(B) The Department of the Interior.
21	"(C) The Department of Energy.
22	"(D) The Environmental Protection Agen-
23	cy.
24	"(E) The United States Geological Survey.

1	"(F) National Oceanic and Atmospheric
2	Administration.
3	"(G) National Aeronautics and Space Ad-
4	ministration.
5	"(H) Other Federal agencies as the Sec-
6	retary determines appropriate.
7	"(2) PARTNERS.—The regional hubs estab-
8	lished under subsection (a) shall work in close part-
9	nership with other stakeholders and partners, includ-
10	ing—
11	"(A) colleges and universities;
12	"(B) cooperative extension services (as de-
13	fined in section 1404 of the Food and Agri-
14	culture Act of 1977 (7 U.S.C. 3103));
15	"(C) State agricultural experiment stations
16	(as defined in such section);
17	"(D) private entities;
18	"(E) State, local and regional govern-
19	ments;
20	"(F) Tribes;
21	"(G) agriculture and commodity organiza-
22	tions;
23	"(H) nonprofit and community-based orga-
24	nizations; and

"(I) other partners, as determined by the
 Secretary.

3 "(d) RESPONSIBILITIES.—A regional hub established
4 under this section shall—

5 "(1) offer tools, strategic management options,
6 and technical support to farmers, ranchers, and for7 est landowners to help such farmers, ranchers, and
8 landowners mitigate and adapt to climate change;

9 "(2) direct farmers, ranchers, and forest land-10 owners to Federal agencies that can provide pro-11 gram support to enable such farmers, ranchers, and 12 forest landowners to implement science-informed 13 management practices that address climate change; 14 "(3) determine how climate and weather projec-15 tions will impact the agricultural and forestry sec-16 tors;

"(4) provide periodic regional assessments of
risk and vulnerability in the agricultural and forestry sectors to help farmers, ranchers, and forest
landowners better understand the potential direct
and indirect impacts of climate change and to inform the United States Global Change Research
Program;

24 "(5) provide to farmers, ranchers, forest land25 owners, and rural communities outreach, education,

	11
1	and extension on science-based risk management
2	through partnerships with the land-grant colleges
3	and universities (as defined in section 1404 of the
4	Food and Agriculture Act of 1977 (7 U.S.C. 3103)),
5	cooperative extension services, and other entities;
6	"(6) work with any cooperative extension serv-
7	ices (as defined in section 1404 of the National Ag-
8	ricultural Research, Extension, and Teaching Policy
9	Act of 1977 (7 U.S.C. 3103)), conservation districts,
10	and non-governmental organizations involved in
11	farmer outreach in the region served by such hub to
12	assist producers in developing business plans and
13	conservation plans that take into account emerging
14	climate risk science with respect to crop, production,
15	and conservation system changes that will help pro-
16	ducers adapt to a changing climate; and
17	"(7) establish, working in partnership with pro-
18	grams and projects carried out under subtitle B of
19	title XVI of the Food, Agriculture, Conservation,
20	and Trade Act of 1990 (7 U.S.C. 5801 et seq.), ad-
21	ditional partnerships with farmers and non-profit
22	and community-based organizations to conduct ap-
23	plied on-farm research on climate change.

"(e) PRIORITIES.—A regional hub established under
this section shall prioritize research and data collection ac-
tivities in the following areas:
"(1) Improved measurement and monitoring
of—
"(A) soil organic carbon sequestration; and
"(B) total net greenhouse gas impacts of
different farming systems and practices.
"(2) Lifecycle analysis for total net greenhouse
gas emissions related to—
"(A) alternative cropping systems;
"(B) alternative livestock production sys-
tems;
"(C) integrated cropping-livestock systems;
"(D) alternative biofuel crop production
systems and biofuel end uses;
"(E) alternative agroforestry practices and
"(E) alternative agroforestry practices and systems; and
systems; and
systems; and "(F) alternative forestry management sys-
systems; and "(F) alternative forestry management sys- tems.
systems; and "(F) alternative forestry management sys- tems. "(3) Research and education on—

1	"(C) enhanced synergies between crop
2	roots and soil biota;
3	"(D) linkages between soil, plant, animal,
4	and human health;
5	"(E) adaption and mitigation needs of
6	stakeholders;
7	"(F) new crops or new varieties to help
8	producers be profitable while adapting to a
9	changing climate;
10	"(G) social and economic barriers to stake-
11	holder adoption of new practices that improve
12	adaptation, mitigation, and soil sequestration;
13	and
14	"(H) evaluation and assessment of climate-
15	related decision tools of the Department of Ag-
16	riculture.
17	"(4) Grazing-based livestock management sys-
18	tems to optimize net greenhouse gas footprint in-
19	cluding-
20	"(A) grazing land carbon sequestration;
21	and
22	"(B) mitigation of enteric methane.
23	"(5) Perennial production systems that seques-
24	ter carbon, enhance soil health, and increase resil-
25	ience, including—

1	"(A) perennial forages;
2	"(B) perennial grains; and
3	"(C) agroforestry.

4 "(f) STAKEHOLDER INPUT.—Each regional hub es-5 tablished under this section shall solicit input from stake-6 holders on pressing needs, important issues, and outreach 7 strategies through a variety of mechanisms including re-8 gional stakeholder committees and may partner with 9 stakeholders in conducting research and developing tools.

10 "(g) RISK MANAGEMENT.—

"(1) IN GENERAL.—The Secretary shall appoint
a team of individuals representing the regional hubs,
regional hub partners, and the Risk Management
Agency to develop recommendations to better account for—

"(A) climate risk in actuarial tables; and
"(B) soil health and other risk-reducing
conservation activities in the Federal crop insurance program under the Federal Crop Insurance Act (7 U.S.C. 1508 et seq.).

21 "(2) SUBMISSION OF RECOMMENDATIONS.—
22 The team appointed under paragraph (1) shall sub23 mit to the Secretary on an iterative basis, but not
24 less frequently than once every two years, the team's

recommendations developed pursuant to such para graph.

3 "(h) AUTHORIZATION OF APPROPRIATIONS.—There 4 is authorized to be appropriated to carry out this section 5 \$50,000,000 for each of fiscal years 2022 through 2030.". 6 SEC. 203. SUSTAINABLE AGRICULTURE RESEARCH AND 7 EDUCATION RESILIENCE INITIATIVE. 8 (a) SUSTAINABLE AGRICULTURE RESEARCH AND 9 EDUCATION.—Section 1619 of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5801) is 10 11 amended-12 (1) in subsection (a)— (A) in paragraph (5), by striking "and" at 13 14 the end; 15 (B) in paragraph (6), by striking the period at the end and inserting "; and"; and 16 17 (C) by adding at the end the following: 18 "(7) increase resilience in the context of a 19 changing climate and related economic, social, and 20 environmental shocks."; and 21 (2) in subsection (b)— 22 (A) in paragraph (2)— (i) by striking "management" and in-23 serting "systems and practices"; and 24

1	(ii) by inserting "resilience," after
2	"profitability,"; and
3	(B) by amending paragraph (3) to read as
4	follows:
5	"(3) The term 'resilience' means, with respect
6	to an agricultural management system, the ability of
7	such system to absorb and recover from climate and
8	other disturbances, such that the system thrives in
9	the face of severe shocks.".
10	(b) Eligibility of Tribal Colleges To Enter
11	INTO RESEARCH AND EXTENSION PROJECT AGREE-
12	MENTS.—Section 1621(b) of the Food, Agriculture, Con-
13	servation, and Trade Act of 1990 (7 U.S.C. 5811(b)) is
14	amended by striking "or Federal or State" inserting
15	"1994 Institutions (as defined in section 532 of the Eq-
16	uity in Educational Land-Grant Status Act of 1994 (7
17	U.S.C. 301 note; Public Law 103–382)), or Federal,
18	State, or Tribal''.
19	(c) Agricultural and Food System Resilience
20	INITIATIVE.—
21	(1) IN GENERAL.—Section 1627 of the Food,
22	Agriculture, Conservation, and Trade Act of 1990 (7

23 U.S.C. 5821) is amended—

24 (A) in subsection (a)—

1	(i) in the matter preceding paragraph
2	(1)—
3	(I) by striking the first sentence
4	and inserting the following: "In close
5	conjunction with programs and
6	projects established under sections
7	1621 and 1623, the Secretary shall
8	establish a research, education, exten-
9	sion, and outreach initiative, which
10	may include farmer and rancher re-
11	search and demonstration grants, and
12	use an interdisciplinary approach
13	wherever appropriate, to increase the
14	resilience of agriculture and the food
15	system in the context of a changing
16	climate and related economic, social,
17	and environmental shocks."; and
18	(II) in the second sentence, by
19	striking "program" and inserting
20	"initiative";
21	(ii) by striking paragraph (3);
22	(iii) by redesignating paragraphs (1),
23	(2), (4), and (5) as paragraphs (3), (4),
24	(5), and (6), respectively;

1	(iv) by inserting before paragraph (3)
2	(as so redesignated), the following:
3	"(1) to equip farmers to prepare for, adapt, and
4	transform their farming systems when confronted by
5	shocks and stresses to their agricultural production
6	and livelihoods;
7	"(2) to support local and regional food systems
8	that support resilience and enhance local access and
9	control over productive resources;";
10	(v) in paragraph (3) (as redesignated
11	by clause (iii))—
12	(I) by inserting "climate and"
13	after "adverse";
14	(II) by inserting "soil quality
15	and" after "enhance"; and
16	(III) by inserting "reduce de-
17	pendency on fossil fuels," after "in-
18	puts,";
19	(vi) in paragraph (4) (as redesignated
20	by clause (iii)), by inserting "increase resil-
21	ience" after "practices to"; and
22	(vii) in paragraph (6) (as redesignated
23	by clause (iii)), by striking "integrated"
24	and all that follows through "programs"
25	and inserting "policies and programs to

1	improve food and agricultural system resil-
2	ience'';
3	(B) by striking subsections (b), (c), and
4	(d); and
5	(C) by inserting after subsection (a) the
6	following:
7	"(b) Funding.—
8	"(1) MANDATORY FUNDING.—Of the funds of
9	the Commodity Credit Corporation, the Secretary
10	shall make available to carry out this section
11	50,000,000 for fiscal year 2022 and each fiscal
12	year thereafter.
13	"(2) DISCRETIONARY FUNDING.—There are au-
14	thorized to be appropriated to carry out this section
15	through the National Institute of Food and Agri-
16	culture \$20,000,000 for each of fiscal years 2013
17	through 2030.".
18	(2) Conforming Amendment.—The chapter
19	heading of chapter 2 of subtitle B of title XVI of the
20	Food, Agriculture, Conservation, and Trade Act of
21	1990 (7 U.S.C. 5821) is amended to read as follows:
22	"AGRICULTURAL AND FOOD SYSTEM
23	RESILIENCE INITIATIVE ".

1	SEC. 204. SUSTAINABLE AGRICULTURE TECHNOLOGY DE-
2	VELOPMENT AND TRANSFER PROGRAM.
3	(a) Technical Guides and Books.—Section 1628
4	of the Food, Agriculture, Conservation, and Trade Act of
5	1990 (7 U.S.C. 5831) is amended—
6	(1) in subsection (d)—
7	(A) by redesignating paragraphs (3) and
8	(4) as paragraphs (4) and (5) , respectively; and
9	(B) by inserting after paragraph (2) the
10	following:
11	"(3) adapting to and mitigating the effects of
12	climate change;"; and
13	(2) in subsection (e), by striking "Soil Con-
14	servation" and inserting "Natural Resources Con-
15	servation".
16	(b) NATIONAL TRAINING PROGRAM.—Section 1629
17	of the Food, Agriculture, Conservation, and Trade Act of
18	1990 (7 U.S.C. 5832) is amended—
19	(1) in subsection (g)—
20	(A) in paragraph (5), by striking "Soil
21	Conservation Service and the Agricultural Sta-
22	bilization and Conservation Service" and insert-
23	ing "Natural Resources Conservation Service
24	and the Farm Service Agency";

1	(B) by redesignating paragraphs (10) and
2	(11) as paragraphs (11) and (12) , respectively;
3	and
4	(C) by inserting after paragraph (9) the
5	following;
6	((10) develop and provide information con-
7	cerning climate change adaptation and mitigation
8	developed under this subtitle and other research and
9	education programs of the Department;";
10	(2) in subsection (h), by striking "Soil Con-
11	servation Service" and inserting "Natural Resources
12	Conservation Service"; and
13	(3) in subsection (i), by striking "2023" and in-
14	serting the following: " 2021 , and $$30,000,000$ for
15	each of fiscal years 2022 through 2030".
16	SEC. 205. LONG-TERM AGROECOLOGICAL NETWORK.
17	Title IV of the Agricultural Research, Extension, and
18	Education Reform Act of 1998 is amended by inserting
19	after section 401 (as added by section 201), the following:
20	"SEC. 402. LONG-TERM AGROECOLOGICAL NETWORK.
21	"(a) IN GENERAL.—The Secretary, acting through
22	the Administrator of the Agricultural Research Service,
23	shall provide for the establishment and maintenance of a
24	network of research sites operated by the Agricultural Re-
25	search Service for research on the sustainability of agricul-

tural systems in the United States, to be known as the
 'Long-Term Agroecological Research Network' (in this
 section referred to as the 'Network') with the following
 goals:
 "(1) To understand and enhance the sustain-

6 ability of agriculture.

7 "(2) To integrate research projects with com8 mon measurements on multiple agroecosystems
9 (such as croplands, rangelands, and pasturelands).

10 "(3) To develop new farming systems, practices,
11 and technologies to address agricultural challenges
12 and opportunities, including challenges and opportu13 nities posed by climate change.

14 "(b) ACTIVITIES DESCRIBED.—The activities of the15 Network shall include—

"(1) research conducted for a minimum of 30
years to develop novel scientific insights at regional
and national scales and evaluate the applicability
and adaptation to local conditions;

"(2) the establishment and maintenance of multiple sites or research centers that capture the diversity of agricultural production systems that function
as a network; and

24 "(3) the coordination of large-scale data collec-25 tion related to the sustainability of agricultural sys-

_0
tems and the provision of infrastructure to research
sites to allow for analyzing and disseminating such
data.
"(c) Coordination of Research.—The Secretary,
shall, in carrying out subsection (a)—
"(1) coordinate long-term agroecological re-
search to improve understanding within the Depart-
ment of Agriculture of how agroecosystems function
at the field, regional, and national scales;
((2)) designate research sites for inclusion in
the Network that are representative of major agri-
cultural regions;
"(3) ensure that every research site so included
conducts experiments with common goals and meth-
ods—
"(A) to increase agricultural productivity
and profitability;
"(B) to enhance agricultural resilience and
the capacity to mitigate and adapt to climate
change;
"(C) boost the provision of ecosystem serv-
ices from agricultural landscapes; and
"(D) improve opportunities for rural com-
munities;

"(4) make data collected at research sites in-1 2 cluded in the Network open to researchers and the 3 public whenever practicable, and integrate data 4 across the network and partner sites; and 5 "(5) provide infrastructure to research sites in-6 cluded in the Network for data collection, common 7 measurements, and data streams that complement 8 other national networks, such as the National Eco-9 logical Observatory Network (NEON) and the Long-10 Term Ecological Research (LTER) network. 11 "(d) AUTHORIZATION OF APPROPRIATIONS.—There 12 are authorized to be appropriated to carry out this section \$50,000,000 for each of fiscal years 2022 through 2030.". 13 14 SEC. 206. PUBLIC BREED AND CULTIVAR RESEARCH. 15 (a) IN GENERAL.—The Competitive, Special, and Facilities Research Grant Act (7 U.S.C. 3157) is amended— 16 17 (1) in subsection (a), by adding at the end the 18 following: 19 "(3) DEFINITIONS.—In this section: "(A) CONVENTIONAL BREEDING.—The term 20 'conventional breeding' means the development of 21 22 new varieties of an organism through controlled 23 mating and selection without the use of transgenic 24 methods, provided that information gained through

25 gene sequencing, genomic, and metabolomics anal-

yses can be used to inform mating and selection
 choices.

3 "(B) CULTIVAR.—The term 'cultivar' means a 4 variety of a species of plant that has been inten-5 tionally selected for use in cultivation because of the 6 improved characteristics of that variety of the spe-7 cies.

8 "(C) PUBLIC BREED AND CULTIVAR.—The 9 term 'public breed and cultivar' means an animal 10 breed or crop cultivar that is the commercially avail-11 able end product of a publicly funded breeding pro-12 gram that has been sufficiently tested to dem-13 onstrate improved characteristics and stable per-14 formance, and for which the farmers' rights to save 15 and use, and breeders' rights to share and improve 16 are protected."; and

(2) by adding at the end the following:

18 "(1) PUBLIC BREED AND CULTIVAR DEVELOPMENT19 FUNDING.—

"(1) IN GENERAL.—Of the amount of grants
made under subsections (b) and (c), the Secretary
shall ensure that not less than the following amounts
are used for competitive research grants that support the development of public breeds and cultivars:
"(A) \$50,000,000 for fiscal year 2022;

1	"(B) \$60,000,000 for fiscal year 2023;
2	"(C) \$70,000,000 for fiscal year 2024;
3	"(D) \$80,000,000 for fiscal year 2025;
4	"(E) \$90,000,000 for fiscal year 2026; and
5	(F) \$100,000,000 for each of the fiscal
6	years 2027 through 2030.
7	"(2) PRIORITY.—In making grants under para-
8	graph (1), the Secretary shall give priority to high-
9	potential research projects that lead to the release of
10	public breeds and cultivars that assist producers in
11	mitigating and adapting to climate change.
12	"(3) GRANTS.—The Secretary shall ensure
13	that—
14	"(A) the terms for any competitive grants
15	made under subsection (b) are not less than 5
16	years;
17	"(B) any such term or associated renewal
18	process facilitates the development and commer-
19	cialization of public breeds and cultivars
20	through long-term grants; and
21	"(C) when necessary, Tribal consultation
22	occurs to ensure public breed and cultivar de-
23	velopment does not infringe on Tribes' abilities
24	to maintain culturally sensitive breeds and
25	cultivars.".

TIVITIES COORDINATOR.—Section 251 of the Department
of Agriculture Reorganization Act of 1994 (7 U.S.C.
6971) is amended—
(1) in subsection (e), by adding at the end the
following:
"(7) Public breed and cultivar research
ACTIVITIES COORDINATOR.—
"(A) IN GENERAL.—The Under Secretary
shall appoint a coordinator within the Office of
the Chief Scientist that reports to the Under
Secretary to coordinate research activities at
the Department relating to the breeding of pub-
lic breeds and cultivars (as defined in para-
graph (3) of subsection (a) of the Competitive,
Special, and Facilities Research Grant Act (7

U.S.C. 3157(a))).

"(B) DUTIES OF COORDINATOR.—The co-ordinator appointed under subparagraph (A) shall-

"(i) coordinate animal and plant breeding research activities funded by the Department relating to the development and delivery to producers of climate resil-

(b) PUBLIC BREED AND CULTIVAR RESEARCH AC-

1	ient and regionally adapted public breeds
2	and crop cultivars;
3	"(ii)(I) carry out ongoing analysis and
4	track activities for any Federal research
5	funding supporting animal and plant
6	breeding (including any public breeds and
7	cultivars developed with Federal funds);
8	and
9	"(II) ensure that the analysis and ac-
10	tivities are made available to the public not
11	later than 60 days after the last day of
12	each fiscal year;
13	"(iii) develop a strategic plan that es-
14	tablishes targets for public breed and
15	cultivar research investments across the
16	Department to ensure that a diverse range
17	of animal and crop needs are being met in
18	a timely and transparent manner, with a
19	strong focus on delivery of resource-effi-
20	cient, stress-tolerant, regionally adapted
21	animal breeds and crop cultivars that help
22	build agricultural resilience to climate
23	change and support on-farm carbon se-
24	questration and greenhouse gas mitigation,

1	nutritional quality, and other farmer-iden-
2	tified priority agronomic and market traits;
3	"(iv) convene a working group in
4	order to carry out the coordination func-
5	tions described in this subparagraph com-
6	prised of individuals who are responsible
7	for the management, administration, or
8	analysis of public breeding programs with-
9	in the Department from—
10	"(I) the National Institute of
11	Food and Agriculture;
12	"(II) the Agricultural Research
13	Service; and
14	"(III) the Economic Research
15	Service;
16	"(v) in order to maximize delivery of
17	public breeds and cultivars, promote col-
18	laboration among—
19	"(I) the coordinator;
20	"(II) the working group convened
21	under clause (iv);
22	"(III) the advisory council estab-
23	lished under section 1634 of the
24	Food, Agriculture, Conservation, and
25	Trade Act of 1990 (7 U.S.C. 5843);

1	"(IV) genetic resource conserva-
2	tion centers;
3	"(V) land-grant colleges and uni-
4	versities (as defined in section 1404 of
5	the National Agricultural Research,
6	Extension, and Teaching Policy Act of
7	1977 (7 U.S.C. 3103));
8	"(VI) Hispanic-serving institu-
9	tions (as defined in section 502(a) of
10	the Higher Education Act of 1965 (20
11	U.S.C. 1101a(a));
12	"(VII) Native American-serving
13	nontribal institutions (as defined in
14	section 371(c) of the Higher Edu-
15	cation Act of 1965 (20 U.S.C.
16	1067q(c)));
17	"(VIII) Tribal organizations (as
18	defined in section 4 of the Indian
19	Self-Determination and Education As-
20	sistance Act (25 U.S.C. 5304));
21	"(IX) nongovernmental organiza-
22	tions with interest or expertise in pub-
23	lic breeding; and
24	"(X) public and private plant
25	breeders;

"(vi) convene regular stakeholder lis-1 2 tening sessions to provide input on national and regional priorities for public 3 4 breed and cultivar research activities 5 across the Department; and 6 "(vii) evaluate and make rec-

7 ommendations to the Under Secretary on 8 training and resource needs to meet future 9 breeding challenges, including the chal-10 lenges stemming from climate change."; 11 and

12 (2) in subsection (f)(1)(D)(i), by striking "(7
13 U.S.C. 450i(b))" and inserting "(7 U.S.C.
14 3157(b))".

15 (c) CONFORMING AMENDMENT.—Section
16 296(b)(6)(B) of the Department of Agriculture Reorga17 nization Act of 1994 (7 U.S.C. 7014(b)(6)(B)) is amended
18 by striking "Office; and" and inserting "Office (including
19 the public breed and cultivar research activities coordi20 nator under subsection (e)(7) of that section); and".

(d) PUBLIC BREED AND CULTIVAR DEVELOPMENT.—Subtitle H of the Food, Agriculture, Conservation, and Trade Act of 1990 (7 U.S.C. 5921) is amended
by adding at the end the following new section:

1 "SEC. 1681. PUBLIC BREED AND CULTIVAR DEVELOPMENT.

2 "(a) FUNDING.—The Secretary of Agriculture, in 3 conjunction with the Director of the National Genetic Resources Program appointed under section 1633 and acting 4 5 through the Agricultural Research Service, shall support the development of public breeds and cultivars (as defined 6 7 in paragraph (3) of subsection (a) of the Competitive, Spe-8 cial, and Facilities Research Grant Act (7 U.S.C. 9 3157(a)) by Federal researchers.

10 "(b) PRIORITY.—In supporting research under sub-11 section (a) using funds made available pursuant to sub-12 section (d), the Secretary shall give priority to high-poten-13 tial research projects that lead to the release of public 14 breeds and cultivars that assist producers in mitigating 15 and adapting to climate change.

16 "(c) REPORT.—Not later than October 1 of each 17 year, the Secretary shall submit to Congress a report that 18 provides information on all public breed and cultivar re-19 search funded by the Agricultural Research Service and 20 the National Institute for Food and Agriculture, includ-21 ing—

22 "(1) a list of public breeds and cultivars devel23 oped and released in a commercially available form;
24 "(2) areas of high priority research;

"(3) identified research gaps relating to public breed and cultivar development, including newly

emerging needs stemming from climate change; and
"(4) an assessment of the state of commercialization for breeds and cultivars that have been
developed.

7 "(d) FUNDING.—Of the funds made available to the
8 Administrator of the Agricultural Research Service for a
9 fiscal year, not less than \$50,000,000 shall be made avail10 able to carry out this section.".

11 SEC. 207. ARS CLIMATE SCIENTIST CAREER DEVELOPMENT 12 PROGRAM.

(a) IN GENERAL.—The Secretary of Agriculture
shall, in accordance with section 922 of the Federal Agriculture Improvement and Reform Act of 1996 (7 U.S.C.
2279c), carry out an internship program within the Agricultural Research Service for graduate students pursuing
a degree or conducting research related to climate change
and agriculture.

(b) FUNDING.—Of the funds of the Commodity Credit Corporation, the Secretary may use not more than
\$10,000,000 for each of fiscal years 2022 through 2030
to carry out the program referred to in subsection (a).

1

1	SEC. 208. AGRICULTURAL CLIMATE ADAPTATION AND MITI-
2	GATION THROUGH AFRI.
3	Subsection $(b)(2)$ of the Competitive, Special, and
4	Facilities Grant Act (7 U.S.C. 3157(b)(2)) is amended by
5	adding at the end the following:
6	"(G) AGRICULTURAL CLIMATE ADAPTA-
7	TION AND MITIGATION.—Agricultural climate
8	adaptation and mitigation, including—
9	"(i) strategies for agricultural adapta-
10	tion to climate change, including adapta-
11	tion strategies for small and medium-sized
12	dairy, livestock, crop and other commodity
13	operations;
14	"(ii) on-farm mitigation strategies and
15	solutions, including infrastructure, equip-
16	ment, and agricultural ecosystems-based
17	strategies;
18	"(iii) the economic costs, benefits, ef-
19	fectiveness, and viability of producers
20	adopting conservation practices and tech-
21	nologies designed to improve soil health,
22	including carbon sequestration in soil;
23	"(iv) the effectiveness of existing con-
24	servation practices and enhancements to
25	improve soil health, including the effective-
26	ness to sequester carbon in soil;

	11
1	"(v) new technologies to measure and
2	verify environmentally beneficial outcomes
3	of healthy soils practices, including carbon
4	sequestration in soil; and
5	"(vi) links between human health and
6	soil health.".
7	SEC. 209. SPECIALTY CROP RESEARCH INITIATIVE.
8	Section 412 of the Agricultural Research, Extension,
9	and Education Reform Act of 1998 (7 U.S.C. 7632) is
10	amended—
11	(1) in subsection (b)—
12	(A) in the matter preceding paragraph (1),
13	by inserting ", multi-crop production systems,"
14	after "specific crops";
15	(B) in paragraph $(4)(E)$, by striking ";
16	and" at the end and inserting a semicolon;
17	(C) in paragraph (5), by striking the pe-
18	riod at the end and inserting "; and"; and
19	(D) by adding at the end the following:
20	"(6) efforts to mitigate and adapt to climate
21	change, including—
22	"(A) on-farm mitigation strategies and so-
23	lutions, including agricultural ecosystems-based
24	strategies;

1	"(B) conservation practices and tech-
2	nologies designed to improve soil health, includ-
3	ing those that sequester carbon in soil; and
4	"(C) breeding research and cultivar devel-
5	opment to help adapt to climate change."; and
6	(2) in subsection $(g)(3)(A)$, by striking "equal
7	to not less than the amount of the grant" and in-
8	serting "in an amount that is equal to not less than
9	25 percent of the funds provided through the
10	grant".
11	SEC. 210. INTEGRATED PEST MANAGEMENT.
12	Section 406 of the Agricultural Research, Extension,
13	and Education Reform Act of 1998 (7 U.S.C. 7626) is
14	amended—
15	(1) by redesignating subsections (d), (e), and
16	(f) as subsections (f), (g), and (h), respectively; and
17	(2) by inserting after subsection (c) the fol-
18	lowing:
19	"(d) Emphasis on Climate Resilience.—The Sec-
20	retary shall ensure that grants made under this section
21	are, where appropriate, consistent with the development
22	of food and agricultural systems that improve climate re-
23	silience.
24	"(e) Ecologically Based Pest Management

42

25 The Secretary shall ensure that grants made under this

section to support pest management prioritize ecologically
 based approaches that are effective, affordable, and envi ronmentally sound, maintain agricultural productivity and
 healthy communities, and improve climate resilience.".

5 SEC. 211. NATIONAL ACADEMY OF SCIENCES STUDY.

6 (a) STUDY.—The Secretary of Agriculture, in con-7 sultation with the Secretary of Health and Human Serv-8 ices, shall enter into an agreement with the National 9 Academy of Sciences, under which the National Academy 10 agrees to produce an analysis of current scientific findings 11 to determine the links between human health and soil 12 health by—

13 (1) reviewing existing research on the connec14 tions between the human microbiome and soil
15 microbiome;

16 (2) identifying linkages between soil manage17 ment practices and the nutrient density of foods for
18 human consumption;

19 (3) exploring potential impact of increasing soil
20 organic matter across the agricultural and food
21 value chain;

(4) determining how to best leverage healthy
soil management practices to maximize benefits and
minimize adverse impacts on human health; and

25 (5) highlighting areas for future research.

1 (b) REPORT.—The agreement under subsection (a) 2 shall include a requirement that the National Academy of 3 Sciences, not later than 2 years after the date of the enact-4 ment of this Act, submit to the Committee on Agriculture 5 of the House of Representatives and the Committee on Agriculture, Nutrition, and Forestry of the Senate a re-6 7 port on the results of the study conducted pursuant to 8 subsection (a).

9 SEC. 212. APPROPRIATE TECHNOLOGY TRANSFER TO 10 RURAL AREAS.

Section 310B(i)(2) of the Consolidated Farm and
Rural Development Act (7 U.S.C. 1932(i)(2)) is amended—

- 14 (1) in subparagraph (C), by striking "and" at15 the end; and
- 16 (2) by redesignating subparagraph (D) as sub17 paragraph (E) and inserting after subparagraph (C)
 18 the following:

19 "(D) increase resilience by adapting to and
20 mitigating the effects of climate change; and".

21 TITLE III—SOIL HEALTH

22 SEC. 301. CROP INSURANCE.

(a) VOLUNTARY GOOD FARMING PRACTICES.—Section 508(a)(3) of the Federal Crop Insurance Act (7
U.S.C. 1508(a)(3)) is amended—

1	(1) in subparagraph (A)(iii), by striking "prac-
2	tices" the first place it appears and all that follows
3	through the period at the end and inserting "prac-
4	tices.";
5	(2) by redesignating subparagraphs (B) and
6	(C) as subparagraphs (C) and (D), respectively; and
7	(3) by inserting after subparagraph (A) the fol-
8	lowing:
9	"(B) GOOD FARMING PRACTICES.—For
10	purposes of subparagraph (A)(iii), good farming
11	practices include the following:
12	"(i) Scientifically sound, sustainable,
13	and organic farming practices, as deter-
14	mined by the Secretary.
15	"(ii) Conservation farming practices
16	that are approved by—
17	"(I) the Natural Resources Con-
18	servation Service; or
19	"(II) an agricultural expert, as
20	determined by the Secretary.".
21	(b) RISK-REDUCTION-BASED DISCOUNTS.—Section
22	508(d) of the Federal Crop Insurance Act (7 U.S.C.
23	1508(d)) is amended—
24	(1) by redesignating paragraph (4) as para-
25	graph (5) ; and

1	(2) by inserting after paragraph (3) the fol-
2	lowing:
3	"(4) RISK-REDUCTION-BASED DISCOUNT.—
4	"(A) IN GENERAL.—Effective beginning
5	with the 2022 reinsurance year, the Corpora-
6	tion may provide a risk-reduction-based pre-
7	mium discount for a producer of an agricultural
8	commodity who uses risk-reduction farming
9	practices, as determined by the Corporation.
10	"(B) RISK-REDUCTION FARMING PRAC-
11	TICES.—For purposes of subparagraph (A),
12	risk-reduction farming practices may include
13	the following:
14	"(i) The use of cover crops.
15	"(ii) Resource-conserving crop rota-
16	tions.
17	"(iii) Management-intensive rotational
18	grazing.
19	"(iv) Composting.
20	"(v) Other risk-reducing and soil
21	health promoting farming practices as de-
22	termined by the Corporation.".
23	(c) Crop Production on Native Sod Applica-
24	BILITY.—

 eral Crop Insurance Act (7 U.S.C. 1508(o)) amended by striking paragraph (3). (2) EFFECTIVE DATE.—The amendment made by paragraph (1) shall take effect on the first date of the first reinsurance year beginning at least year after the date of the enactment of this Act. 8 SEC. 302. ENVIRONMENTAL QUALITY INCENTIVES PR 9 GRAM. 	.—Section 508(o) of the Fed-	1
 4 (2) EFFECTIVE DATE.—The amendment made 5 by paragraph (1) shall take effect on the first date 6 of the first reinsurance year beginning at least 7 year after the date of the enactment of this Act. 8 SEC. 302. ENVIRONMENTAL QUALITY INCENTIVES PROCESSION 	Act (7 U.S.C. 1508(o)) is	2
 5 by paragraph (1) shall take effect on the first da 6 of the first reinsurance year beginning at least 7 year after the date of the enactment of this Act. 8 SEC. 302. ENVIRONMENTAL QUALITY INCENTIVES PROVIDENTIAL QUALITY INCENTIVES PROVIDENTIAL 	paragraph (3).	3
 6 of the first reinsurance year beginning at least 7 year after the date of the enactment of this Act. 8 SEC. 302. ENVIRONMENTAL QUALITY INCENTIVES PROVIDENTIAL QUALITY PROVIDENTIAL	DATE.—The amendment made	4
 7 year after the date of the enactment of this Act. 8 SEC. 302. ENVIRONMENTAL QUALITY INCENTIVES PR 	ll take effect on the first day	5
8 SEC. 302. ENVIRONMENTAL QUALITY INCENTIVES PR	nce year beginning at least 1	6
	the enactment of this Act.	7
9 GRAM.	L QUALITY INCENTIVES PRO-	8
		9
10 (a) PURPOSES.—Section 1240 of the Food Securi	ion 1240 of the Food Security	10
11 Act of 1985 (16 U.S.C. 3839aa) is amended—	39aa) is amended—	11
12 (1) in the matter preceding paragraph (1), b	r preceding paragraph (1), by	12
13 striking "and environmental quality" and insertin	mental quality" and inserting	13
14 "environmental quality, and climate change adapt	y, and climate change adapta-	14
15 tion and mitigation";		15
16 (2) in paragraph (1)—	(1)—	16
17 (A) in subparagraph (B), by striking	paragraph (B), by striking ";	17
18 and" and inserting a semicolon;	ng a semicolon;	18
19 (B) in subparagraph (C), by striking th	aragraph (C), by striking the	19
20 semicolon at the end and inserting "; and"; an	end and inserting "; and"; and	20
(C) by adding at the end the following:	g at the end the following:	21
22 "(D) greenhouse gas emissions reduction	nouse gas emissions reduction	22
and carbon sequestration;";	stration;";	23

1	(3) in paragraph $(3)(C)$, by inserting "reducing
2	greenhouse gas emissions and" before "conserving
3	energy"; and
4	(4) in paragraph (4), by inserting "climate
5	change and" before "increasing weather volatility".
6	(b) DEFINITIONS.—Section 1240A(6)(B) of the Food
7	Security Act of 1985 (16 U.S.C. 3839aa-1(6)(B)) is
8	amended—
9	(1) in clause (v), by striking "; and" and insert-
10	ing a semicolon;
11	(2) by redesignating clause (vi) as clause (vii);
12	and
13	(3) by inserting after clause (v) the following:
14	"(vi) greenhouse gas emissions reduc-
15	tion planning; and".
16	(c) Establishment and Administration of En-
17	VIRONMENTAL QUALITY INCENTIVES PROGRAM.—
18	(1) ESTABLISHMENT.—Section 1240B(a) of the
19	Food Security Act of 1985 (16 U.S.C. 3839aa–2(a))
20	is amended by striking "2023" and inserting
21	<i>"</i> 2030 <i>"</i> .
22	(2) PAYMENTS.—Section $1240B(d)(7)(A)$ of the
23	Food Security Act of 1985 (16 U.S.C. 3839aa-
24	2(d)(7)(A)) is amended—

1	(A) in clause (iii), by striking "; or" and
2	inserting a semicolon;
3	(B) in clause (iv), by striking the period at
4	the end and inserting "; or"; and
5	(C) by adding at the end the following:
6	"(v) increases carbon sequestration or
7	reduces greenhouse gas emissions.".
8	(3) Allocation of funding.—Section
9	1240B(f) of the Food Security Act of 1985 (16
10	U.S.C. 3839aa–2(f)) is amended—
11	(A) by striking "2023" each place it ap-
12	pears and inserting "2030"; and
13	(B) in paragraph (1), by striking "includ-
14	ing grazing management" and inserting "of
15	which not less than two thirds shall be targeted
16	at practices relating to grazing management".
17	(4) PAYMENTS FOR CONSERVATION PRACTICES
18	RELATED TO ORGANIC PRODUCTION.—Section
19	1240B(i) of the Food Security Act of 1985 (16
20	U.S.C. 3839aa–2(i)) is amended by striking para-
21	graph (3) and redesignating paragraphs (4) and (5)
22	as paragraphs (3) and (4), respectively.
23	(5) Conservation incentive contracts.—
24	Section 1240B(j) of the Food Security Act of 1985
25	(16 U.S.C. 3839aa–2(j)) is amended—

1	(A) in paragraph (1), by adding at the end
2	the following:
3	"(C) CLIMATE CHANGE ADAPTATION AND
4	MITIGATION.—For the purposes of this sub-
5	section, priority resource concerns include cli-
6	mate change adaptation and mitigation.";
7	(B) in paragraph (2)(A)(ii)—
8	(i) in subclause (I), by striking "or";
9	(ii) in subclause (II), by striking the
10	period at the end and inserting "; or"; and
11	(iii) by adding at the end the fol-
12	lowing:
13	"(III) funding, through annual
14	payments, for a suite of incentive
15	practices that are appropriate for the
16	region and land use and that best en-
17	hance soil health and carbon seques-
18	tration and reduce greenhouse gas
19	emissions, as determined by the Sec-
20	retary."; and
21	(C) by amending paragraph (2)(B) to read
22	as follows:
23	"(B) TERM.—

1 "(i) IN GENERAL.—A contract under 2 this subsection shall have a term of not 3 less than 5, and not more than 10, years. 4 "(ii) Graduation option.—The Sec-5 retary may reduce the term for a contract 6 under this subsection if the producer en-7 ters into a conservation stewardship con-8 tract under section 1240K with respect to 9 the eligible land that is subject to the con-10 tract under this subsection.".

(d) ENVIRONMENTAL QUALITY INCENTIVES PLAN.—
12 Section 1240E(a)(3) of the Food Security Act of 1985 (16
13 U.S.C. 3839aa–5(a)(3)) is amended by inserting ", and
14 a greenhouse gas emissions reduction plan" after "if appli15 cable".

16 (e) LIMITATION ON PAYMENTS.—Section 1240G of the Food Security Act of 1985 (16 U.S.C. 3839aa–7) is 17 amended by striking "Not including payments made under 18 section 1240B(j), a person or legal entity may not receive, 19 20 directly or indirectly, cost-share or incentive payments 21 under this subchapter that, in aggregate, exceed \$450,000 22 for all contracts entered into under this subchapter by the 23 person or legal entity during the period of fiscal years 24 2014 through 2018, or the period of fiscal years 2019 through 2023" and inserting "A person or legal entity (in-25

cluding a joint venture and a general partnership) may
 not receive, directly or indirectly, cost-share or incentive
 payments under this subchapter that, in aggregate, exceed
 \$450,000 for all contracts entered into under this sub chapter by the person or legal entity during any 5-fiscal year period".

7 (f) CONSERVATION INNOVATION GRANTS.—

8 (1) AIR QUALITY CONCERNS FROM AGRICUL9 TURAL OPERATIONS.—Section 1240H(b) of the
10 Food Security Act of 1985 (16 U.S.C. 3839aa-8(b))
11 is amended—

(A) in paragraph (1), by inserting "and to
meet Federal, State, and local goals with respect to greenhouse gas emissions reductions"
after "local regulatory requirements"; and

16 (B) in paragraph (2), by striking "2019
17 through 2023" and inserting "2019 through
18 2021, and \$50,000,000 for each of fiscal years
19 2022 through 2030".

(2) ON-FARM CONSERVATION INNOVATION
TRIALS.—Section 1240H(c)(2) of the Food Security
Act of 1985 (16 U.S.C. 3839aa-8(c)(2)) is amended
by striking "2019 through 2023" and inserting
"2019 through 2021, \$50,000,000 of the funds
made available to carry out this subchapter for each

1	of fiscal years 2022 and 2023, and \$100,000,000 of
2	the funds made available to carry out this sub-
3	chapter for each of fiscal years 2024 through 2030".
4	SEC. 303. CONSERVATION STEWARDSHIP PROGRAM.
5	(a) Definitions.—Section 1240I of the Food Secu-
6	rity Act of 1985 (16 U.S.C. 3839aa-21) is amended-
7	(1) in paragraph (2) —
8	(A) in subparagraph (A), by inserting "en-
9	hancements," after "practices,"; and
10	(B) in subparagraph $(B)(v)$, by inserting
11	"and climate change" before the period at the
12	end; and
13	(2) in paragraph $(3)(C)$, by inserting "main-
14	tained, actively" after "implemented,".
15	(b) Conservation Stewardship Program.—Sec-
16	tion 1240J(a) of the Food Security Act of 1985 (16
17	U.S.C. 3839aa–22(a)) is amended—
18	(1) in the matter preceding paragraph (1) , by
19	striking "2023" and inserting "2030"; and
20	(2) by striking paragraphs (1) and (2) and in-
21	serting the following:
22	"(1) by maintaining, actively managing, and,
23	where possible, improving upon existing conservation
24	activities; and

1	"(2) by undertaking additional conservation ac-
2	tivities.".
3	(c) Stewardship Contracts.—
4	(1) SUBMISSION OF CONTRACT OFFERS.—Sec-
5	tion $1240K(a)(2)(B)$ of the Food Security Act of
6	1985 (16 U.S.C. 3839aa–23(a)(2)(B)) is amended
7	by striking "improving, maintaining, and managing"
8	and inserting "maintaining, actively managing, and,
9	where possible, improving".
10	(2) Evaluation of contract offers.—Sec-
11	tion $1240 \text{K}(b)$ of the Food Security Act of 1985 (16
12	U.S.C. 3839aa–23(b)) is amended—
13	(A) by amending paragraph $(1)(A)(iii)$ to
14	read as follows:
15	"(iii) other criteria consistent with an
16	equal weighting of the factors described in
17	clauses (i) and (ii), as determined by the
18	Secretary, including criteria the Secretary
19	determines are necessary to ensure that—
20	"(I) the program effectively tar-
21	gets improvements to soil health, in-
22	creases in carbon sequestration, and
23	reductions in greenhouse gas emis-
24	sions; and

	55
1	"(II) other national, State, and
2	local priority resource concerns are ef-
3	fectively addressed."; and
4	(B) by striking paragraph (3).
5	(3) Contract Renewal.—Section 1240K(e)
6	of the Food Security Act of 1985 (16 U.S.C.
7	3839aa–23(e)) is amended to read as follows:
8	"(e) Contract Renewal.—
9	"(1) IN GENERAL.—The Secretary may provide
10	the producer an opportunity to renew an existing
11	contract in the first half of the fifth year of the con-
12	tract period if the producer—
13	"(A) demonstrates compliance with the
14	terms of the existing contract;
15	"(B) agrees to adopt and continue to inte-
16	grate new or improved conservation activities
17	across the entire agricultural operation, dem-
18	onstrating continued improvement during the
19	additional 5-year period as determined by the
20	Secretary; and
21	"(C) agrees, by the end of the contract pe-
22	riod, to meet the stewardship threshold of at
23	least 2 additional priority resource concerns on

the agricultural operation, if applicable.

1	"(2) RANKING AND PAYMENTS.—In deter-
2	mining whether to accept an application for contract
3	renewal under this subsection, and when calculating
4	payments for such renewal contracts, the Secretary
5	shall consider the full conservation benefits across
6	the entire agricultural operation, including—
7	"(A) the number of priority resource con-
8	cerns with respect to which the producer is ex-
9	pected to meet or exceed the stewardship
10	threshold by the end of the contract period; and
11	"(B) the active management and mainte-
12	nance of ongoing conservation activities, includ-
13	ing—
14	"(i) the conservation activities adopt-
15	ed during a prior contract period; and
16	"(ii) the new or improved conservation
17	activities to be adopted if a contract is re-
18	newed.".
19	(d) DUTIES OF THE SECRETARY.—
20	(1) CLIMATE CHANGE ADAPTATION AND MITI-
21	GATION.—Section 1240L(a)(2) of the Food Security
22	Act of 1985 (16 U.S.C. 3839aa-24(a)(2)) is amend-
23	ed by inserting "(which may include climate change
24	adaptation and mitigation)" after "priority resource
25	concerns''.

1	(2) Conservation stewardship pay-
2	MENTS.—Section 1240L(c) of the Food Security Act
3	of 1985 (16 U.S.C. 3839aa–24(c)) is amended—
4	(A) in paragraph (1)—
5	(i) in subparagraph (A), by inserting
6	"on one or more types of eligible land cov-
7	ered by the contract" after "activities";
8	and
9	(ii) in subparagraph (B), by striking
10	"improving, maintaining, and managing"
11	and inserting "maintaining, actively man-
12	aging, and improving";
13	(B) in paragraph (2)—
14	(i) by amending subparagraph (B) to
15	read as follows:
16	"(B) Income forgone by the producer, in-
17	cluding amounts that reflect—
18	"(i) increased economic risk; and
19	"(ii) loss in revenue due to production
20	changes, anticipated reductions in yield,
21	transitioning to an organic system, re-
22	source-conserving cropping system, or pe-
23	rennial production system, or acreage con-
24	verted to conservation uses.";

1	(ii) in subparagraph (E), by inserting
2	", actively managed, and, where applicable,
3	improved" after "maintained"; and
4	(C) by adding at the end the following:
5	"(6) PAYMENT FOR CONSERVATION ACTIVITIES
6	RELATED TO ORGANIC PRODUCTION SYSTEMS.—
7	"(A) IN GENERAL.—The Secretary shall
8	provide payments under this subsection for con-
9	servation activities related to—
10	"(i) organic production; and
11	"(ii) transitioning to organic produc-
12	tion.
13	"(B) CONSERVATION ACTIVITIES.—Such
14	conservation activities may include both gen-
15	erally available and specifically tailored con-
16	servation activities, and both individual con-
17	servation activities and bundles of conservation
18	activities.
19	"(7) MINIMUM PAYMENT.—The amount of an
20	annual payment under the program shall be not less
21	than \$2,000.".
22	(3) SUPPLEMENTAL PAYMENTS.—Section
23	1240L(d) of the Food Security Act of 1985 (16
24	U.S.C. 3839aa-24(d)) is amended—

1	(A) in the subsection heading, by inserting
2	", PERENNIAL PRODUCTION SYSTEMS, AND"
3	after "ROTATIONS";
4	(B) in paragraph (1), by adding at the end
5	the following:
6	"(D) PERENNIAL PRODUCTION SYSTEM.—
7	The term 'perennial production system'
8	means—
9	"(i) the use of cropland for agro-
10	forestry, including alley cropping,
11	silvopasture, and related production prac-
12	tices, as determined by the Secretary;
13	"(ii) the use of woodland for agro-
14	forestry, including forest farming, multi-
15	story cropping, and related production
16	practices, as determined by the Secretary;
17	and
18	"(iii) the use of cropland for perennial
19	forages or perennial grain crops.";
20	(C) in paragraph (2)—
21	(i) in subparagraph (A), by striking
22	"or";
23	(ii) in subparagraph (B), by striking
24	the period and inserting "; or"; and

1	(iii) by adding at the end the fol-
2	lowing:
3	"(C) a perennial production system."; and
4	(D) in paragraph (3), by striking "or ad-
5	vanced grazing management" and inserting
6	"advanced grazing management, or a perennial
7	production system".
8	(4) PAYMENT FOR COMPREHENSIVE CONSERVA-
9	TION PLAN.—Section 1240L(e)(1) of the Food Secu-
10	rity Act of 1985 (16 U.S.C. 3839aa-24(e)(1)) is
11	amended to read as follows:
12	"(1) DEFINITION OF COMPREHENSIVE CON-
13	SERVATION PLAN.—In this subsection, the term
14	'comprehensive conservation plan' means a conserva-
15	tion plan that—
16	"(A) meets or exceeds the stewardship
17	threshold for each priority resource concern
18	identified by the Secretary under subsection
19	(a)(2); and
20	"(B) with respect to an organic production
21	system—
22	"(i) is integrated with an organic sys-
23	tem plan approved under the national or-
24	ganic program established under the Or-

1	ganic Foods Production Act of 1990 (7
2	U.S.C. 6501 et seq.); or
3	"(ii) allows a producer to transition to
4	organic production systems and pursue
5	certification under the Organic Foods Pro-
6	duction Act of 1990 (7 U.S.C. 6501 et
7	seq.).''.
8	(5) PAYMENT LIMITATIONS.—Section 1240L(f)
9	of the Food Security Act of 1985 (16 U.S.C.
10	3839aa–24(f)) is amended—
11	(A) by striking "fiscal years 2019 through
12	2023" and inserting "any consecutive 5-year
13	period"; and
14	(B) by inserting "(including joint ventures
15	and general partnerships)" before the period at
16	the end.
17	(6) Speciality crop and organic pro-
18	DUCERS.—Section 1240L(g) of the Food Security
19	Act of 1985 (16 U.S.C. 3839aa-24(g)) is amended
20	by inserting ", and producers transitioning to or-
21	ganic production systems," after "organic pro-
22	ducers''.
23	(7) Soil Health.—Section 1240L(k) of the
24	Food Security Act of 1985 (16 U.S.C. 3839aa-

1	24(k)) is amended by striking the period at the end
2	and inserting ", including by—
3	((1) conducting outreach to encourage the use
4	of contracts to improve soil health and sequester
5	carbon in the soil; and
6	"(2) offering payments for soil testing to pro-
7	vide producers and the Secretary with information
8	on the soil health and carbon sequestration impacts
9	of conservation activities.".
10	(e) On-Farm Conservation Stewardship Inno-
11	VATION GRANTS.—Subchapter B of chapter 4 of subtitle
12	D of subtitle D of title XII of the Food Security Act of
13	1985 (16 U.S.C. 3839aa–21 et seq.) is amended by adding
14	at the end the following:
15	"SEC. 1240L-2. ON-FARM CONSERVATION STEWARDSHIP IN-
16	NOVATION GRANTS.
17	"(a) DEFINITION.—In this section, the term 'agricul-
18	tural professional' means university researchers and edu-
19	cators, including extension agents and specialists, Federal
20	agency field staff, agricultural consultants, State and local
21	agency staff, tribal agency staff, Federally-Recognized
22	Tribes Extension Program agents, and nonprofit organiza-

tion staff assisting farmers and ranchers at the local level.

25 carry out this chapter, the Secretary may pay the cost of

"(b) GRANTS.—Out of the funds made available to

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24

competitive grants that are intended to stimulate innova tive approaches on farms and ranches to leverage Federal
 investment in conservation stewardship, in conjunction
 with agricultural production or forest resource manage ment, through the program.

6 "(c) PARTICIPANTS.—The Secretary shall carry out
7 on-farm conservation innovation projects on eligible land
8 of program participants—

9 "(1) directly with producers participating in the10 program; or

"(2) through partnerships between agricultural
professionals and small groups of program participants.

14 "(d) USE.—The Secretary may provide grants di-15 rectly or through partnerships under this section to agri-16 cultural operations enrolled in the program, or groups of 17 such operations, on a competitive basis, to carry out 18 projects that—

19 "(1) facilitate on-farm research and demonstra20 tion or pilot testing of new technologies or innovative
21 conservation systems and practices that aim to re22 duce greenhouse gas emissions and decarbonize agri23 culture;

24 "(2) facilitate on-farm research and demonstra-25 tion or pilot testing of practices and systems with

proven high impact for greenhouse gas emissions re duction and decarbonization with low national or re gional adoption rates; or

4 "(3) help prepare program participants for par5 ticipation in environmental services markets that
6 have as a primary goal greenhouse gas emissions re7 duction or decarbonization of agriculture.

8 "(e) INCENTIVE PAYMENTS.—

9 "(1) AGREEMENTS.—In carrying out this sec-10 tion, the Secretary shall enter into agreements with 11 producers (either directly or through governmental 12 or non-governmental organizations involved in a 13 partnership) on whose land an on-farm conservation 14 innovation trial is being carried out to provide pay-15 ments to the producers to assist with adopting and 16 evaluating new or innovative conservation ap-17 proaches to achieve conservation benefits. Payments 18 shall reflect the direct costs of the research and 19 demonstration and compensation for foregone in-20 come, as appropriate to address the increased eco-21 nomic risk or lower economic return potentially asso-22 ciated with the innovative conservation approach.

23 "(2) ADJUSTED GROSS INCOME REQUIRE24 MENTS.—

 2 requirements under section 1001D(k 3 shall— 4 "(i) apply to producers receiving 5 ments under this subsection; and 6 "(ii) be enforced by the Secretary. 	
 4 "(i) apply to producers receiving 5 ments under this subsection; and 6 "(ii) be enforced by the Secretary. 	pay-
 5 ments under this subsection; and 6 "(ii) be enforced by the Secretary. 	pay-
6 "(ii) be enforced by the Secretary.	
$7 \qquad (\mathcal{U} \mathbf{D}) \mathbf{D} \mathbf{w} = \mathbf{a} - \mathbf{w} + \mathbf{a}$	
7 "(B) REPORTING.—A governmental	or
8 non-governmental organization participatin	g in
9 an on-farm conservation stewardship innova	ation
10 partnership project under this subsection	shall
11 report annually to the Secretary on the am	ount
12 of payments made to individual farm operat	tions
13 under this subsection.	
14 "(3) RESEARCH, TECHNICAL ASSISTANCE,	AND
15 Administrative expenses.—The Secretary	may
16 provide partnerships under this section with u	p to
17 \$50,000 per project for research, technical as	sist-
18 ance, and administrative expenses.	
19 "(4) LENGTH OF AGREEMENTS.—An agreen	nent
20 entered into under paragraph (1) shall be for a	ı pe-
21 riod determined by the Secretary that is—	
22 "(A) not less than 2 years; and	
23 "(B) if appropriate, more than 2 years	, in-
24 cluding if such a period is appropriate to	sup-
25 port—	

"(i) adaptive management over multiple crop years; and
"(ii) adequate data collection and
analysis by a producer or partnership to
report the natural resource and agricultural production benefits of the new or innovative conservation approaches to the

9 "SEC. 1240L-3. CONTRIBUTIONS AND CONTRIBUTION 10 AGREEMENTS.

Secretary.

11 "(a) CONTRIBUTIONS.—In carrying out the program, 12 the Secretary may accept financial or other contributions from individuals and public and private entities, if the Sec-13 retary determines that the contributions will further the 14 15 purposes of the program. Such contributions may include support for conservation activities to sequester carbon, re-16 17 duce greenhouse gas emissions, and achieve other related environmental benefits, under such terms and conditions 18 19 as the Secretary may require.

- 20 "(b) CONTRIBUTION AGREEMENTS.—
- 21 "(1) IN GENERAL.—The Secretary may accept
 22 a contribution to the program under subsection (a)
 23 from an individual or a public or private entity.
- 24 "(2) CONSIDERATIONS.—In determining wheth25 er to accept a contribution under this subsection, the

1	Secretary shall consider whether the contribution
2	would target one or more of the following:
3	"(A) Resource-conserving crop rotations,
4	advanced grazing management, or perennial
5	production systems.
6	"(B) Cover crop activities.
7	"(C) Organic production systems.
8	"(D) Beginning and socially disadvantaged
9	farmers and ranchers, or other underserved
10	producers.
11	"(3) AGREEMENTS.—Any contribution under
12	this subsection shall be made subject to an agree-
13	ment between the contributing individual or entity
14	and the Secretary, under such terms and conditions
15	as the Secretary may require.".
16	SEC. 304. STATE ASSISTANCE FOR SOIL HEALTH.
17	Chapter 5 of subtitle D of title XII of the Food Secu-
18	rity Act of 1985 (16 U.S.C. 3839bb et seq.) is amended
19	by adding at the end the following:
20	"SEC. 1240S. STATE ASSISTANCE FOR SOIL HEALTH.
21	"(a) Availability and Purpose of Grants.—
22	Using funds made available under subsection (k), the Sec-
23	retary shall make grants to States or tribal governments
24	for each of fiscal years 2022 through 2030 to be used by
25	State departments of agriculture or appropriate tribal au-

thorities to develop and implement plans to improve soil
 health on agricultural lands.

3 "(b) Application.—

4 "(1) IN GENERAL.—A State department of ag-5 riculture or tribal government requesting a grant 6 under this section may prepare and submit, for ap-7 proval by the Secretary, an application at such time, 8 in such a manner, and containing such information 9 as the Secretary shall require, including an assur-10 ance that grant funds received under this section 11 shall supplement the expenditure of State or tribal 12 funds in support of soil health, rather than replace 13 State or tribal funds. 14 "(2) USE OF FUNDS.—A State or tribal govern-

15 ment may request funds under this section to—

16 "(A) develop or modify a State or tribal17 soil health plan; or

18 "(B) implement a State or tribal soil
19 health plan approved by the Secretary under
20 this section, including through—

21 "(i) technical assistance;

22 "(ii) financial assistance;

23 "(iii) on-farm research and dem-24 onstration;

1	"(iv) education, outreach, and train-
2	ing;
3	"(v) monitoring and evaluation; or
4	"(vi) such other activities as the Sec-
5	retary deems appropriate.
6	"(3) Plan components.—Prior to approving a
7	State or tribal soil health plan, the Secretary shall
8	ensure that the plan, at a minimum—
9	"(A) is broadly consistent with the soil
10	health principles of the Natural Resources Con-
11	servation Service; and
12	"(B) identifies effective strategies for in-
13	creasing adoption of regionally appropriate soil
14	health practices and systems on privately owned
15	agricultural land under the jurisdiction of the
16	applicable State or tribal government.
17	"(4) ELIGIBILITY.—A State or tribal govern-
18	ment may—
19	"(A) apply for a grant under paragraph
20	(2)(A) at any time; and
21	"(B) apply for a grant under paragraph
22	(2)(B) upon approval by the Secretary of its
23	soil health plan.
24	"(c) TRIBAL OPTION.—At the sole discretion of a
25	tribal government, an Indian tribe or tribal organization

1	shall have the option of being incorporated into a State
2	application rather than submitting its own application.
3	"(d) Grant Amount.—
4	"(1) MAXIMUM.—The maximum grant any one
5	State or tribal government may receive under this
6	section for a fiscal year shall be—
7	"(A) for a grant under subsection
8	(b)(2)(A), \$1 ,000,000.
9	"(B) for a grant under subsection
10	(b)(2)(B), \$5,000,000.
11	"(2) Federal share.—
12	"(A) GRANTS TO STATES.—The grant
13	amount to a State shall not exceed 75 percent
14	of the cost of developing or modifying a soil
15	health plan, or 50 percent of the cost of imple-
16	menting the soil health plan.
17	"(B) GRANTS TO TRIBES.—The grant
18	amount to a tribal government shall not exceed
19	90 percent of the cost of developing or modi-
20	fying a soil health plan, or 75 percent of the
21	cost of implementing the soil health plan.
22	"(3) Non-Federal funds.—A grant made
23	under this section shall be made on the condition
24	that the non-Federal share of expenditures under
25	paragraph (2) be provided by non-Federal sources.

"(e) GRANT TERM.—A grant under this section shall
 be for one year and may be renewed annually, at the dis cretion of the Secretary.

4 "(f) PRIORITY.—The Secretary shall give priority to 5 States or tribal governments with a climate action plan that includes soil health, as determined by the Secretary. 6 7 "(g) PERFORMANCE MEASURES AND EVALUATION.— "(1) PERFORMANCE MEASURES.—Each applica-8 9 tion under subsection (b) shall include performance 10 measures to be used to evaluate the results of the 11 assistance received under this section.

"(2) REVIEW.—The State department of agriculture or the tribal authority shall submit a review
and evaluation of its progress using the performance
measures under paragraph (1) to the Secretary at
such intervals as the Secretary shall establish.

17 "(h) EFFECT OF NONCOMPLIANCE.—If the Sec-18 retary, after reasonable notice to a State or tribal govern-19 ment, finds that there has been a failure by the State or 20 tribal government to comply with the terms of a grant 21 made under this section, the Secretary may disqualify, for 22 one or more years, the State or tribal government from 23 receipt of future grants under this section.

24 "(i) AUDIT REQUIREMENT.—For each year that a25 State or tribal government receives a grant under this sec-

tion, the State or tribal government shall conduct an audit
 of the expenditures of grant funds by the State or tribal
 government and shall submit a copy of the audit to the
 Secretary within 30 days of its completion.

5 "(j) Administration.—

6 "(1) DEPARTMENT.—The Secretary may not
7 use more than 3 percent of the funds made available
8 to carry out this section for a fiscal year for admin9 istrative expenses.

10 "(2) STATES OR TRIBES.—A State or tribal
11 government receiving a grant under this section may
12 not use more than 7 percent of the funds received
13 under the grant for a fiscal year for administrative
14 expenses.

15 "(k) FUNDING.—Of the funds of the Commodity
16 Credit Corporation, the Secretary shall make grants under
17 this section using—

18 "(1) \$60,000,000 for fiscal years 2022 through
19 2023;

20 "(2) \$80,000,000 for fiscal years 2024 through
21 2026; and

22 "(3) \$100,000,000 for fiscal year 2027 and
23 each fiscal year thereafter.".

24 SEC. 305. FUNDING AND ADMINISTRATION.

25 (a) Commodity Credit Corporation.—

1	(1) ANNUAL FUNDING.—Section $1241(a)$ of the
2	Food Security Act of 1985 (16 U.S.C. 3841(a)) is
3	amended—
4	(A) in the matter preceding paragraph (1),
5	by striking "For each of fiscal years 2014
6	through 2023, the Secretary' and inserting
7	"The Secretary";
8	(B) in paragraph (1)—
9	(i) in subparagraph (A), by inserting
10	", and $$17,000,000$ for the period of fiscal
11	years 2024 through 2030," after "2023";
12	and
13	(ii) in subparagraph (B), by inserting
14	"and \$70,000,000 for the period of fiscal
15	years 2024 through 2030, including not
16	more than \$5,000,000 to provide outreach
17	and technical assistance," after "technical
18	assistance,";
19	(C) in paragraph (2)—
20	(i) in subparagraph (E), by striking ";
21	and" and inserting a semicolon;
22	(ii) in subparagraph (F), by striking
23	"2023." and inserting "2022; and"; and
24	(iii) by adding at the end the fol-
25	lowing:

1	"(G) \$700,000,000 for each of fiscal years
2	2023 through 2030."; and
3	(D) in paragraph (3)—
4	(i) in subparagraph (A)—
5	(I) in clause (iv), by striking ";
6	and" and inserting a semicolon; and
7	(II) by adding at the end the fol-
8	lowing:
9	"(vi) \$3,000,000,000 for fiscal years
10	2024 through 2030; and"; and
11	(ii) in subparagraph (B)—
12	(I) in clause (iii), by striking
13	"\$750,000,000" and inserting
14	``\$2,000,000,000'';
15	(II) in clause (iv), by striking
16	"\$800,000,000 for fiscal year 2022;
17	and" and inserting "\$2,500,000,000
18	for fiscal year 2022;";
19	(III) in clause (v), by striking
20	"\$1,000,000,000 for fiscal year
21	2023." and inserting "\$3,000,000,000
22	for fiscal year 2023; and"; and
23	(IV) by adding at the end the fol-
24	lowing:

1	(((') #4,000,000,000, C C C C C C C C C C
1	"(vi) \$4,000,000,000 for fiscal years
2	2024 through 2030.".
3	(2) Availability of funds.—Section 1241(b)
4	of the Food Security Act of 1985 (16 U.S.C.
5	3841(b)) is amended by striking "2023" and insert-
6	ing ''2030''.
7	(3) TECHNICAL ASSISTANCE.—Section 1241(c)
8	of the Food Security Act of 1985 (16 U.S.C.
9	3841(c)) is amended by adding at the end the fol-
10	lowing:
11	"(5) Special initiative.—
12	"(A) IN GENERAL.—Beginning in fiscal
13	year 2022 and every year thereafter through
14	fiscal year 2030, the Secretary shall use for a
15	special technical assistance initiative to assist
16	producers in mitigating and adapting to climate
17	change, from the Commodity Credit Corpora-
18	tion, an amount equal to not less than 1 per-
19	cent of Commodity Credit Corporation funds
20	made available for a fiscal year for each of the
21	programs specified in subsection (a).
22	"(B) Provision of technical assist-
23	ANCE.—The Secretary shall provide technical
24	assistance under this special initiative to pro-

25 ducers—

1	"(i) directly;
2	"(ii) through an agreement with a
3	third-party provider (as defined in section
4	1242), or, at the option of the producer,
5	through a payment, as determined by the
6	Secretary, to the producer for a third-party
7	provider approved under section 1242, if
8	available; or
9	"(iii) through a cooperative agreement
10	or contract with—
11	"(I) a cooperative extension;
12	"(II) a non-governmental organi-
13	zation; or
14	"(III) a State, tribal, or Federal
15	agency.
16	"(C) UNDERSERVED PRODUCERS.—In pro-
17	viding technical assistance under this para-
18	graph, the Secretary shall give priority to pro-
19	ducers who are covered persons (as defined in
20	section 1244(a)(2)).".
21	(4) Assistance to certain farmers or
22	RANCHERS FOR CONSERVATION ACCESS.—Section
23	1241(h) of the Food Security Act of 1985 (16
24	U.S.C. 3841(h)) is amended—

1	(A) in paragraph $(1)(B)$, by striking "to
2	the maximum extent practicable" and all that
3	follows through the period at the end and in-
4	serting "to the maximum extent practicable, 30
5	percent to assist beginning farmers or ranchers
6	and socially disadvantaged farmers or ranch-
7	ers."; and
8	(B) in paragraph (2), by striking "2023"
9	and inserting "2030".
10	(b) Administrative Requirements for Con-
11	SERVATION PROGRAMS.—
12	(1) INCENTIVES FOR CERTAIN FARMERS AND
13	RANCHERS AND INDIAN TRIBES.—Section
14	1244(a)(1) of the Food Security Act of 1985 (16)
15	U.S.C. 3844(a)(1)) is amended—
16	(A) in subparagraph (A), by striking ";
17	and" and inserting a semicolon; and
18	(B) by striking subparagraph (B) and in-
19	serting the following:
20	"(B) to establish a new generation of pro-
21	ducers who use the full array of climate-friendly
22	conservation activities that reduce greenhouse
23	gas emissions, increase soil carbon, and improve
24	resilience to weather extremes; and

	•••
1	"(C) to enhance other long-term environ-
2	mental goals.".
3	(2) REVIEW AND GUIDANCE FOR PRACTICE
4	COSTS AND PAYMENT RATES.—Section
5	1244(j)(1)(B) of the Food Security Act of 1985 (16
6	U.S.C. 3844(j)(1)(B)) is amended—
7	(A) in clause (ii), by striking "; and" and
8	inserting a semicolon;
9	(B) in clause (iii), by striking the period at
10	the end and inserting "; and"; and
11	(C) by adding at the end the following:
12	"(iv) accelerates progress in meeting
13	the goals established under title I of the
14	Agriculture Resilience Act.".
15	(3) Advanced grazing management.—Sec-
16	tion 1244 of the Food Security Act of 1985 (16
17	U.S.C. 3844) is amended by adding at the end the
18	following:
19	"(q) Advanced Grazing Management.—
20	"(1) IN GENERAL.—In carrying out any con-
21	servation program administered by the Secretary,
22	the Secretary shall encourage advanced grazing
23	management, including management-intensive rota-
24	tional grazing, as such terms are defined in section
25	1240L(d).

"(2) RESERVATION OF FUNDS.—In each of fis-1 2 cal years 2022 through 2030, the Secretary shall use 3 to carry out this subsection not less than two thirds 4 of any funds available for activities related to live-5 stock production under conservation programs ad-6 ministered by the Secretary under this title (other 7 than the conservation reserve program established 8 under subchapter B of chapter 1 of subtitle D, ex-9 cept for acres enrolled under section 1231(d)(2).". 10 (c) ENVIRONMENTAL SERVICES MARKETS.—Section 11 1245 of the Food Security Act of 1985 (16 U.S.C. 3845) is amended by adding at the end the following: 12 13 "(f) Soil Health and Greenhouse Gas Federal

13 (I) SOIL HEALTH AND GREENHOUSE GAS FEDERAL
14 ADVISORY COMMITTEE.—

15 "(1) ESTABLISHMENT.—Not later than 6
16 months after the date of enactment of this sub17 section, the Secretary shall establish an advisory
18 committee, to be known as the Soil Health and
19 Greenhouse Gas Federal Advisory Committee.

20 "(2) MEMBERSHIP.—In carrying out paragraph
21 (1), the Secretary shall appoint members to the ad22 visory committee that reflect diversity in gender,
23 age, race, and geography and include—

24 "(A) farmers and ranchers, including those25 operating small and mid-sized farms;

1	"(B) organizations representing farmers
2	and ranchers, including those representing
3	small and mid-sized farms;
4	"(C) scientists;
5	"(D) environmental nonprofit organiza-
6	tions;
7	"(E) existing private sector carbon and
8	ecosystem services market development initia-
9	tives;
10	"(F) businesses working to reduce green-
11	house gas emissions from agriculture in their
12	supply chains;
13	"(G) relevant Federal agencies;
14	"(H) youth engaged in the agriculture or
15	food sector;
16	"(I) tribal communities; and
17	"(J) State agriculture agencies.
18	"(3) TERMS.—
19	"(A) TERM LENGTH.—The term of a
20	member of the advisory committee shall be 2
21	years.
22	"(B) REAPPOINTMENT.—The Secretary
23	may reappoint a member for not more than 2
24	consecutive terms.

1	"(4) MEETINGS.—The advisory committee shall
2	meet at least 4 times in the first year after it is es-
3	tablished, and at least twice annually thereafter.
4	"(5) Recommendations.—Not later than 12
5	months after the date on which the advisory com-
6	mittee is established, and periodically thereafter, the
7	advisory committee shall submit to the Secretary
8	recommendations on—
9	"(A) the feasibility of establishing reliable
10	outcomes-based measurement systems, as de-
11	scribed in subsection (g);
12	"(B) existing technology that provides reli-
13	able measurement data;
14	"(C) for those parameters for which exist-
15	ing technology does not provide reliable meas-
16	urement data, research and technical needs
17	and, as appropriate, goals and plans for such
18	research;
19	"(D) standards for data collection and dis-
20	semination;
21	"(E) farmer data management and pri-
22	vacy;
23	"(F) greenhouse gas emissions and soil
24	health inventories and databases, as described
25	in subsection (h); and

1 "(G) criteria for soil health and green-2 house gas emissions reductions payments and 3 environmental markets, as described in sub-4 section (i).

5 "(g) Measurement System.—

6 "(1) PURPOSE.—The Secretary shall evaluate 7 existing outcomes-based measurement systems for 8 recordkeeping, modeling, and measurement of farm-9 level greenhouse gas emissions and soil carbon se-10 questration, including measures of soil disturbance, 11 plant diversity, continual living cover, residue man-12 agement, advanced grazing management, and crop-13 livestock integration, to determine which such sys-14 tems can be implemented quickly, improve in accu-15 racy and ease over time, use the best available 16 science and technology, and are cost-effective.

17 "(2) GUIDANCE.—Not later than 18 months 18 after the date of enactment of this subsection, the 19 Secretary shall issue guidance on the outcomes-20 based measurement system evaluated under para-21 graph (1), based on recommendations from the advi-22 sory committee under subsection (f), and informa-23 tion from agroecosystem models (including COMET) 24 Farm and COMET Farm Planner), remote sensing 25 data and analysis (including the Operational Tillage

1	Information System), soil health demonstration
2	trials carried out under section $1240H(c)(7)$, exist-
3	ing and emerging public and private environmental
4	services protocols, measurement systems, and bench-
5	marks, and field-level measurement.
6	"(3) REVIEW.—The Secretary, based on rec-
7	ommendations from the advisory committee estab-
8	lished under subsection (f), shall—
9	"(A) establish and maintain such an out-
10	comes-based measurement system when fea-
11	sible;
12	"(B) conduct periodic review of such sys-
13	tem, and any necessary updates; and
14	"(C) establish research and development
15	goals and plans as needed.
16	"(h) INVENTORY.—
17	"(1) IN GENERAL.—Not later than 18 months
18	after the date of enactment of this subsection, and
19	every 2 years thereafter, the Secretary, in consulta-
20	tion with the advisory committee established under
21	subsection (f) and the Administrator of the Environ-
22	mental Protection Agency, shall conduct a nation-
23	wide soil health and agricultural greenhouse gas
24	emissions inventory that uses the best available
25	science and data to establish expected average per-

formance for soil carbon drawdown and storage and
 greenhouse gas emissions reduction by primary pro duction type and production region.

4 "(2) DATABASE.—The Secretary shall create an
5 accessible and interoperable database for the infor6 mation collected through the inventory conducted
7 under paragraph (1), and shall improve and update
8 such database at least once every two years as new
9 data is collected.

10 "(i) CRITERIA.—The Secretary, in consultation with 11 the advisory committee established under subsection (f), 12 shall establish criteria for payments, credits, or other 13 forms of incentives to inform policy and markets estab-14 lished to promote soil carbon sequestration or greenhouse 15 gas emissions reductions. The criteria shall—

"(1) have a documented likelihood to lead to
long-term net increases in soil carbon sequestration
and net reductions in greenhouse gas emissions, according to the best available science;

"(2) be based in part on environmental impact
modeling of the changes of shifting from baseline agricultural practices to new or improved agricultural
practices; and

24 "(3) be designed to prevent the degradation of25 other natural resource or environmental conditions.

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1 "(j) DEMONSTRATION TRIALS.—

"(1) IN GENERAL.—The Secretary shall peri-2 odically review the results from soil health dem-3 4 onstration trials carried out under section 1240H(c)(7), and other similar public and private 5 6 demonstration trials the Secretary determines appro-7 priate, to inform the activities under subsections (g), 8 (h), and (i).

9 "(2) Recommendations.—In submitting re-10 ports pursuant to section 1240H(c)(7)(C), the Sec-11 retary shall include any recommendations to Con-12 gress for changes or additions to the conservation 13 programs under this Act the Secretary determines 14 appropriate to accelerate net increases in soil carbon and other improvements in 15 sequestration soil 16 health.".

17 SEC. 306. CARBON TAX CREDIT FEASIBILITY STUDY.

(a) STUDY.—The Secretary of the Treasury ("the
Secretary"), in coordination with the Secretary of Agriculture, shall conduct a study of the feasibility of developing a credit against tax to incentivize carbon capture
on farms and ranches.

(b) REPORT.—Not later than one year after the date
of the enactment of this section, the Secretary shall submit to Congress a report that describes the results of the

1 study in subsection (a), including whether or not to pro-

2	ceed with a tax credit and, if so, detailed recommendations
3	for—
4	(1) which taxpayers should be eligible for the
5	credit;
6	(2) methods for measuring (if feasible) or esti-
7	mating baseline soil carbon conditions on a farm or
8	ranch;
9	(3) methods for measuring (if feasible) or esti-
10	mating the amount of soil carbon sequestered or
11	abated on a farm or ranch;
12	(4) incentivizing early adoption of carbon cap-
13	ture practices;
14	(5) the number of years a taxpayer should be
15	eligible for the credit;
16	(6) establishing rules for recapture in instances
17	in which carbon capture ceases or carbon is not re-
18	tained in soil;
19	(7) establishing rules for recapture if ownership
20	of land is transferred;
21	(8) setting the dollar value of the tax credit;
22	(9) setting phase outs for tax credit eligibility;
23	(10) establishing certification requirements for
24	carbon capture;

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1	(11) establishing rules for attributing the credit
2	to a taxpayer;
3	(12) establishing rules for carrying over unused
4	credits; and
5	(13) such other provisions as the Secretary de-
6	termines necessary.
7	SEC. 307. CONSERVATION COMPLIANCE.
8	(a) DEFINITIONS.—
9	(1) Conservation plan.—Section 1201(a)(3)
10	of the Food Security Act of 1985 (16 U.S.C.
11	3801(a)(3)) is amended—
12	(A) by striking "highly erodible" each
13	place it appears; and
14	(B) in subparagraph (B), by striking "and
15	conservation treatment measures" and inserting
16	"crop rotation and cover crop systems, and
17	other relevant conservation treatment meas-
18	ures".
19	(2) CONSERVATION SYSTEM.—Section
20	1201(a)(4) of the Food Security Act of 1985 (16
21	U.S.C. 3801(a)(4)) is amended—
22	(A) in subparagraph (A), by striking ";
23	and" and inserting a semicolon;
24	(B) in subparagraph (B)—

1	(i) by striking "or a substantial im-
2	provement in soil conditions on a field or
3	group of fields containing highly erodible
4	cropland" and inserting "and a substantial
5	improvement in soil health conditions (in-
6	cluding soil carbon levels) on a field or
7	group of fields containing cropland"; and
8	(ii) by striking the period at the end
9	and inserting a semicolon; and
10	(C) by adding at the end the following:
11	"(C) are designed to achieve, within five
12	years of actively applying a conservation plan,
13	a level of erosion not to exceed twice the soil
14	loss tolerance level; and
15	"(D) are designed to effectively prevent the
16	formation of new, or treat all existing, ephem-
17	eral gullies.".
18	(3) HIGHLY ERODIBLE LAND.—Section
19	1201(a)(11)(A)(ii) of the Food Security Act of 1985
20	(16 U.S.C. $3801(a)(11)(A)(ii)$) is amended by strik-
21	ing "excessive average annual rate of erosion in rela-
22	tion to" and inserting "average annual rate of ero-
23	sion exceeding twice".
24	(b) CROPLAND CONSERVATION.—

1	(1) Program ineligibility.—Section 1211 of
2	the Food Security Act of 1985 (16 U.S.C. 3811) is
3	amended—
4	(A) in subsection (a)—
5	(i) in the matter preceding paragraph
6	(1), by striking "produces an agricultural
7	commodity on a field on which highly erod-
8	ible land is predominant, or designates
9	land on which highly erodible land is pre-
10	dominant to be set aside, diverted, devoted
11	to conservation uses, or otherwise not cul-
12	tivated under a program administered by
13	the Secretary to reduce production of an
14	agricultural commodity, as determined by
15	the Secretary" and inserting "carries out
16	an activity described in subsection (b), as
17	determined by the Secretary,"; and
18	(ii) in paragraph $(1)(D)$, by inserting
19	"cropland or" before "highly erodible
20	land"; and
21	(B) by striking subsection (b) and insert-
22	ing the following:
23	"(b) ACTIVITIES DESCRIBED.—Activities described
24	in this subsection are—

"(1) the production of an agricultural com modity on a field on which highly erodible land is
 predominant;

4 "(2) the designation of land on which highly
5 erodible land cropland is predominant to be set
6 aside, diverted, devoted to conservation uses, or oth7 erwise not cultivated under a program administered
8 by the Secretary to reduce production of an agricul9 tural commodity; and

"(3) the production of an agricultural commodity without having in place a conservation plan.
"(c) AUTHORITY OF SECRETARY.—The Secretary
shall have, and shall not delegate to any private person
or entity, authority to determine whether a person has
complied with this subtitle.".

16 (2) EXEMPTIONS.—Section 1212 of the Food
17 Security Act of 1985 (16 U.S.C. 3812) is amend18 ed—

(A) in subsection (a)(3), by striking "only
be required to apply a conservation plan established under this subtitle. The person shall not
be required to meet a higher conservation
standard than" and inserting "be required to
apply a conservation plan established under this
subtitle consistent with"; and

1	(B) in subsection $(f)(4)(A)$ —
2	(i) in clause (i), by striking "highly
3	erodible"; and
4	(ii) in clause (ii)(II), by inserting
5	"and soil health" after "erosion control".
6	(3) Conforming Amendment.—Subtitle B of
7	title XII of the Food Security Act of 1985 (16
8	U.S.C. 3810 et seq.) is amended in the subtitle
9	heading by striking "Highly Erodible Land"
10	and inserting "Cropland".
11	SEC. 308. AGROFORESTRY CENTERS.
12	Section 1243 of the Food, Agriculture, Conservation,
13	and Trade Act of 1990 (16 U.S.C. 1642 note; Public Law
14	101–624) is amended—
15	(1) by amending the section heading to read as
16	follows: "NATIONAL AND REGIONAL AGRO-
17	FORESTRY CENTERS'';
18	(2) by amending subsection (a) to read as fol-
19	lows:
20	"(a) National and Regional Agroforestry
21	CENTERS.—The Secretary of Agriculture shall establish
22	at the Forestry Sciences Laboratory of the United States
23	Forest Service, in Lincoln, Nebraska, a Semiarid Agro-
24	forestry Research, Development, and Demonstration Cen-
25	ter, and acting through the Chief of the Forest Service

1	and in cooperation with the Natural Resources Conserva-
2	tion Service, shall establish not less than three additional
3	regional agroforestry centers at other locations to be de-
4	termined by the Secretary (referred to in this section as
5	the 'Centers'). The Secretary shall appoint a National Di-
6	rector and Regional Directors to manage and coordinate
7	the program established under subsection (b).";
8	(3) in subsection (b)—
9	(A) in the matter preceding paragraph (1) ,
10	by striking "Center" and inserting "Centers";
11	(B) in paragraph (1), by striking "on
12	semiarid lands that" and inserting "that build
13	soil health and";
14	(C) in paragraph (3), by striking "from
15	semiarid land";
16	(D) in paragraph (4)—
17	(i) by striking "in semiarid regions";
18	and
19	(ii) by striking "the Great Plains re-
20	gion" and inserting "particular regions";
21	(E) by amending paragraph (6) to read as
22	follows:
23	"(6) develop improved silvopasture, alley crop-
24	ping, forest farming, multistory cropping, riparian

buffer, windbreak and shelterbelt, and other peren-

25

1	nial production and conservation systems and tech-
2	nologies to improve soil health, carbon sequestration,
3	drought preparedness, soil and water conservation,
4	environmental quality, and biological diversity;";
5	(F) in paragraph (7), by striking "on
6	semiarid lands'';
7	(G) in paragraph (8), by striking "on
8	semiarid lands worldwide'' and inserting
9	"worldwide, including on semiarid lands"; and
10	(H) in paragraph (9)—
11	(i) by striking "on semiarid lands";
12	and
13	(ii) by inserting "and climate change"
14	after "pollution";
15	(4) in subsection (c), in the matter preceding
16	paragraph (1), by striking "Center" and inserting
17	"Centers"; and
18	(5) in subsection (d), by striking "through
19	2023" and inserting "through 2021 and
20	\$25,000,000 for each of fiscal years 2022 through
21	2030".

1	TITLE IV-FARMLAND PRESER-
2	VATION AND FARM VIABILITY
3	SEC. 401. LOCAL AGRICULTURE MARKET PROGRAM.
4	Section 210A of the Agricultural Marketing Act of
5	1946 (7 U.S.C. 1627c) is amended—
6	(1) in subsection (a)(12)—
7	(A) by redesignating clauses (iv) and (v) as
8	clauses (vi) and (vii), respectively; and
9	(B) by inserting after clause (iii) the fol-
10	lowing:
11	"(iv) is produced and marketed in a
12	manner that significantly improves soil
13	health and carbon sequestration or signifi-
14	cantly reduces greenhouse gas emissions;
15	"(v) when added to the crop or graz-
16	ing rotation on a farm, will significantly
17	improve soil health and carbon sequestra-
18	tion or significantly reduce greenhouse gas
19	emissions;";
20	(2) in subsection (b)—
21	(A) in paragraph (1)—
22	(i) in subparagraph (B), by striking ";
23	and" and inserting a semicolon;
24	(ii) in subparagraph (C), by striking
25	the period at the end and inserting ", in-

1	cluding value-added agricultural products
2	from crops or animals that when added
3	into crop or grazing rotations on a farm
4	will significantly improve soil health and
5	carbon sequestration or significantly re-
6	duce greenhouse gas emissions; and"; and
7	(iii) by adding at the end the fol-
8	lowing:
9	"(D) markets for agricultural commodities
10	and products produced in a manner that signifi-
11	cantly improve soil health and carbon seques-
12	tration or significantly reduce greenhouse gas
13	emissions.";
14	(B) in paragraph (3)—
15	(i) by striking "and local" and insert-
15 16	(1) by striking and local and insert- ing ", local"; and
16	ing ", local"; and
16 17	ing ", local"; and (ii) by inserting before the semicolon
16 17 18	ing ", local"; and (ii) by inserting before the semicolon at the end the following: ", and production
16 17 18 19	ing ", local"; and (ii) by inserting before the semicolon at the end the following: ", and production and marketing approaches to significantly
16 17 18 19 20	ing ", local"; and (ii) by inserting before the semicolon at the end the following: ", and production and marketing approaches to significantly improve soil health and carbon sequestra-
 16 17 18 19 20 21 	 ing ", local"; and (ii) by inserting before the semicolon at the end the following: ", and production and marketing approaches to significantly improve soil health and carbon sequestra- tion or significantly reduce greenhouse gas
 16 17 18 19 20 21 22 	 ing ", local"; and (ii) by inserting before the semicolon at the end the following: ", and production and marketing approaches to significantly improve soil health and carbon sequestra- tion or significantly reduce greenhouse gas emissions";

1	(D) by redesignating paragraph (6) as
2	paragraph (7); and
3	(E) by inserting after paragraph (5) the
4	following:
5	"(6) enhances the economic viability of pro-
6	ducers and related agricultural enterprises; and";
7	(3) in subsection (d)—
8	(A) in paragraph (2)—
9	(i) in subparagraph (C)—
10	(I) in clause (i), by striking
11	"and" at the end;
12	(II) in clause (ii), by adding
13	"and" at the end; and
14	(III) by adding at the end the
15	following:
16	"(iii) agricultural commodities and
17	products that are produced and marketed
18	in a manner that significantly improve soil
19	health and carbon sequestration or signifi-
20	cantly reduce greenhouse gas emissions, or
21	that when added to a crop or grazing rota-
22	tion on a farm will significantly improve
23	soil health and carbon sequestration or sig-
24	nificantly reduce greenhouse gas emis-
25	sions;"; and

1 (ii) in subparagraph (F), by striking 2 "and value-added agricultural products in new and existing markets" and inserting 3 the following: ", value-added agricultural 4 products in new and existing markets, and 5 6 agricultural commodities and products that 7 are produced in a manner that enhances 8 soil health and carbon sequestration or sig-9 nificantly reduces greenhouse gas emis-10 sions, or that when added to a crop or 11 grazing rotation on a farm will signifi-12 cantly improve soil health and carbon se-13 questration or significantly reduce green-14 house gas emissions";

(B) in paragraph (5)(A), by inserting before the period at the end the following: "and
the Chief of the Natural Resources Conservation Service";

19 (4) by redesignating subsections (f), (g), (h),
20 and (i) as subsections (g), (h), (i), and (j), respectively;

(5) by inserting after subsection (e) the fol-lowing new subsection:

24 "(f) FARM VIABILITY AND LOCAL CLIMATE RESIL-25 IENCY CENTERS.—

"(1) IN GENERAL.—The Secretary, 1 acting 2 through the Administrator of the Agricultural Mar-3 keting Service and in coordination with Adminis-4 trator of the Rural Business-Cooperative Service and 5 the Chief of the Natural Resources Conservation 6 Service, shall provide grants to eligible entities de-7 scribed in paragraph (2) to serve as farm viability 8 and local climate resiliency centers (referred to in 9 this section as 'centers') to support efforts to en-10 hance farm viability, and the development, coordina-11 tion, and expansion of markets for commodities and 12 farm products that significantly improve soil health 13 and carbon sequestration or significantly reduce 14 greenhouse gas emissions. 15 "(2) ELIGIBLE ENTITIES.—An entity is eligible 16 to receive a grant under this subsection if the entity 17 is— 18 "(A) an agricultural cooperative or other 19 agricultural business entity or a producer net-

21 "(B) a local, State or Tribal government;
22 "(C) a nonprofit corporation;

23 "(D) a public benefit corporation;

work or association;

24 "(E) an economic development corporation;

25 "(F) an institution of higher education; or

20

1	"(G) such other entity as the Secretary
2	may designate.
3	"(3) USE OF FUNDS.—An eligible entity receiv-
4	ing a grant under this subsection may use grant
5	funds to provide to entities described in (d)(5)(B)—
6	"(A) assistance for the development of
7	business plans and feasibility studies;
8	"(B) assistance in developing marketing
9	strategies for—
10	"(i) local products; and
11	"(ii) value-added agriculture products
12	in new and existing markets;
13	"(C) assistance in enterprise development
14	for the processing, aggregation, distribution,
15	and storage of—
16	"(i) local and regional food products
17	that are marketed locally or regionally; and
18	"(ii) value-added agricultural prod-
19	ucts;
20	"(D) assistance related to financial and
21	recordkeeping;
22	"(E) assistance related to enterprise and
23	business management;
24	"(F) assistance related to ownership suc-
25	cession planning;

1	"(G) outreach and assistance in the adop-
2	tion of farming practices that enhance soil
3	health and carbon sequestration or significantly
4	reduce greenhouse gas emissions;
5	"(H) outreach regarding assistance avail-
6	able under subsection (d);
7	"(I) outreach regarding assistance avail-
8	able through other programs administers by
9	any other Federal Agency that supports the
10	adoption of farming practices that enhance soil
11	health and carbon sequestration or significantly
12	reduce greenhouse gas emissions; or
13	"(J) at the request of such an eligible enti-
14	ty, provide assistance in applying for a grant
15	under subsection (d), including acting on behalf
16	of such a producer in applying for a grant
17	under subsection (d).
18	"(4) Geographic diversity.—To the max-
19	imum extent practicable, the Secretary shall ensure
20	geographic diversity in selecting entities to receive a
21	grant under this subsection.
22	"(5) Non-Federal share.—An entity receiv-
23	ing a grant under this subsection shall provide fund-
24	ing in an amount equal to not less than 25 percent

1	of the total amount of the Federal portion of the
2	grant.
3	"(6) Applications.—
4	"(A) IN GENERAL.—To be eligible to re-
5	ceive a grant under this subsection an eligible
6	entity shall submit to the Secretary an applica-
7	tion at such time, in such manner, and con-
8	taining such information as the Secretary con-
9	siders necessary to evaluate and select applica-
10	tions.
11	"(B) Competitive process.—The Sec-
12	retary—
13	"(i) shall conduct a competitive proc-
14	ess to select applications submitted under
15	subparagraph (A);
16	"(ii) may assess and rank applications
17	with similar proposals as a group; and
18	"(iii) shall, prior to accepting applica-
19	tions under such subparagraph, make pub-
20	lic the criteria to be used in evaluating
21	such applications.
22	"(7) PRIORITY.—The Secretary may give pri-
23	ority to applications submitted under paragraph (1)
24	that include—

1	"(A) plans to use funds for 3 or more of
2	purposes specified in paragraph (3); or
3	"(B) activities related to improving the uti-
4	lization and expanded adoption of farming prac-
5	tices that enhance soil health and carbon se-
6	questration or significantly reduce greenhouse
7	gas emissions while simultaneously improving
8	farm viability.
9	"(8) Administrative expenses.—An entity
10	receiving a grant under paragraph (1) may use not
11	more than 4 percent of funds received through the
12	grant for administrative expenses.";
13	(6) in subsection $(i)(1)$ (as redesignated by
14	paragraph (4)), in the matter preceding subpara-
15	graph (A), by striking "subsection $(i)(3)(E)$ " and in-
16	serting "subsection $(j)(3)(E)$ "; and
17	(7) in subsection (j) (as redesignated by para-
18	graph(4))—
19	(A) in paragraph (1) by striking "fiscal
20	year 2019" and inserting "each of fiscal years
21	2019 through 2021 and \$150,000,000 for fiscal
22	year 2022";
23	(B) in paragraph (3)—
24	(i) in subparagraph (A)(i), by striking
25	"35" and inserting "36"; and

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1	(ii) by amending subparagraph (B) to
2	read as follows:
3	"(B) FARMERS' MARKET AND LOCAL FOOD
4	PROMOTION GRANTS.—
5	"(i) IN GENERAL.—Of the funds
6	made available to carry out this section for
7	a fiscal year, 36 percent shall be used for
8	grants under subsection $(d)(6)$.
9	"(ii) Allocation among subpro-
10	GRAMS.—Of the funds reserved under
11	clause (i) for a fiscal year—
12	"(I) 40 percent shall be made
13	available for farmers market pro-
14	motion program grants; and
15	"(II) 60 percent shall be made
16	available for local food promotion pro-
17	gram grants.";
18	(C) by redesignating subparagraphs (D)
19	and (E) as subparagraphs (E) and (F), respec-
20	tively; and
21	(D) by inserting after subparagraph (C)
22	the following:
23	"(D) FARM VIABILITY AND LOCAL CLI-
24	MATE RESILIENCY.—Of the funds made avail-
25	able to carry out this section for a fiscal year,

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1	10 percent shall be used to provide grants
2	under subsection (f).".
3	SEC. 402. ORGANIC CERTIFICATION COST-SHARE PRO-
4	GRAM.
5	(a) Section 10606(b)(2) of the Farm Security and
6	Rural Investment Act of 2002 (7 U.S.C. $6523(b)(2)$) is
7	amended by striking "\$750" and inserting "\$1,000".
8	(b) Section 10606(d)(1) of the Farm Security and
9	Rural Investment Act of 2002 (7 U.S.C. $6523(d)(1)$) is
10	amended by striking "shall make available" and all that
11	follows through the period at the end and inserting "shall
12	use such sums as are necessary to carry out this section.".
13	SEC. 403. EXCLUSION OF GAIN FROM SALE OF CERTAIN
13 14	SEC. 403. EXCLUSION OF GAIN FROM SALE OF CERTAIN FARM PROPERTY AND AGRICULTURAL EASE-
14	FARM PROPERTY AND AGRICULTURAL EASE-
14 15 16	FARM PROPERTY AND AGRICULTURAL EASE- MENTS.
14 15 16	FARM PROPERTY AND AGRICULTURAL EASE- MENTS. (a) IN GENERAL.—Part III of subchapter B of chap-
14 15 16 17	FARM PROPERTY AND AGRICULTURAL EASE- MENTS. (a) IN GENERAL.—Part III of subchapter B of chap- ter 1 of the Internal Revenue Code of 1986 is amended
14 15 16 17 18	FARM PROPERTY AND AGRICULTURAL EASE- MENTS. (a) IN GENERAL.—Part III of subchapter B of chap- ter 1 of the Internal Revenue Code of 1986 is amended by adding after section 121 the following new sections:
14 15 16 17 18 19	FARM PROPERTY AND AGRICULTURAL EASE- MENTS. (a) IN GENERAL.—Part III of subchapter B of chap- ter 1 of the Internal Revenue Code of 1986 is amended by adding after section 121 the following new sections: "SEC. 121A. EXCLUSION OF GAIN FROM SALE OF QUALIFIED
 14 15 16 17 18 19 20 	FARM PROPERTY AND AGRICULTURAL EASE- MENTS. (a) IN GENERAL.—Part III of subchapter B of chap- ter 1 of the Internal Revenue Code of 1986 is amended by adding after section 121 the following new sections: "SEC. 121A. EXCLUSION OF GAIN FROM SALE OF QUALIFIED FARM PROPERTY.
 14 15 16 17 18 19 20 21 	FARM PROPERTY AND AGRICULTURAL EASE- MENTS. (a) IN GENERAL.—Part III of subchapter B of chap- ter 1 of the Internal Revenue Code of 1986 is amended by adding after section 121 the following new sections: SEC. 121A. EXCLUSION OF GAIN FROM SALE OF QUALIFIED FARM PROPERTY. "(a) EXCLUSION.—Gross income shall not include
 14 15 16 17 18 19 20 21 22 23 	FARM PROPERTY AND AGRICULTURAL EASE- MENTS. (a) IN GENERAL.—Part III of subchapter B of chap- ter 1 of the Internal Revenue Code of 1986 is amended by adding after section 121 the following new sections: "SEC. 121A. EXCLUSION OF GAIN FROM SALE OF QUALIFIED FARM PROPERTY. "(a) EXCLUSION.—Gross income shall not include gain from the sale or exchange of qualified farm property

1	"(2) meets the certification requirement of sub-
2	section (c).
3	"(b) Limitation.—
4	"(1) IN GENERAL.—The amount of gain ex-
5	cluded from gross income under subsection (a) with
6	respect to any taxable year shall not exceed the ex-
7	cess, if any of—
8	"(A) \$500,000 (\$1,000,000 in the case of
9	a joint return), over
10	"(B) the amount excluded from the gross
11	income of the taxpayer for all prior taxable
12	years.
13	"(2) Special rule for joint returns.—The
14	amount of the exclusion under subsection (a) on a
15	joint return for any taxable year shall be allocated
16	equally between the spouses for purposes of applying
17	the limitation under paragraph (1) for any suc-
18	ceeding taxable year.
19	"(c) Certification Requirement.—A qualified
20	farmer meets the certification requirement of this sub-
21	section if such person signs a written certification stating
22	the following:
23	"(1) Use certification as farm for farm-
24	ING PURPOSES.—The use of such property will be as

a farm for farming purposes at all times during the
 recapture period.

3 "(2) RECAPTURE AGREEMENT.—The transferee
4 has been notified of the recapture liability arising
5 from a disposition or change in the use of such prop6 erty at any time during the recapture period.

7 "(d) TREATMENT OF DISPOSITION OR CHANGE IN
8 USE OF PROPERTY.—

9 "(1) IN GENERAL.—If there is a recapture 10 event during the recapture period with respect to 11 any qualified farm property, then the tax imposed 12 under this chapter on the transferee referred to in 13 subsection (a) for the taxable year which includes 14 the first such recapture event shall be increased by 15 the amount excluded from the product of—

16 "(A) the transferor's gross income under
17 subsection (a) with respect to such qualified
18 farm property, multiplied by

19 "(B) the rate of tax in effect under section
20 (1)(h)(1)(D).

21 "(2) RECAPTURE EVENT DEFINED.—For pur22 poses of this subsection, the term 'recapture event'
23 means, with respect to any qualified farm prop24 erty—

	10.
1	"(A) CESSATION OF OPERATION.—The
2	cessation of the operation of such property as
3	a farm for farming purposes at any time in the
4	recapture period.
5	"(B) FAILURE TO MATERIALLY PARTICI-
6	PATE.—The failure of a qualified farmer to ma-
7	terially participate in the operation of the farm
8	at any time during the recapture period.
9	"(C) CHANGE IN OWNERSHIP.—
10	"(i) IN GENERAL.—Except as pro-
11	vided in clause (ii), the disposition of any
12	interest in such property by the transferee
13	referred to in subsection (a) during the re-
14	capture period.
15	"(ii) Agreement to assume recap-
16	TURE LIABILITY.—Clause (i) shall not
17	apply to any farm property if the person
18	acquiring the interest referred to in such
19	clause agrees in writing to assume the re-
20	capture liability of the person disposing of
21	such interest. In the event of such an as-
22	sumption, this subsection shall apply to the
23	person acquiring such interest as though
24	such person were the transferee referred to
25	therein (and this subsection shall be ap-

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1	plied as if there had been no change in
2	ownership).
3	"(3) Special rules.—
4	"(A) NO CREDITS AGAINST TAX.—Any in-
5	crease in tax under this subsection shall not be
6	treated as a tax imposed by this chapter for
7	purposes of determining the amount of any
8	credit under subpart A, B, or D of this part.
9	"(B) NO RECAPTURE BY REASON OF
10	HARDSHIP.—The increase in tax under this
11	subsection shall not apply to any disposition of
12	property or cessation of the operation of any
13	property as a farm for farming purposes if such
14	disposition or cessation occurs by reason of any
15	hardship.
16	"(e) Special Rules.—For purposes of this section,
17	rules similar to the rules of subsections (e) and (f) of sec-
18	tion 121 shall apply.
19	"(f) DEFINITIONS.—For purposes of this section—
20	"(1) QUALIFIED FARMER.—The term 'qualified
21	farmer' means—
22	"(A) a beginning farmer, socially disadvan-
23	taged farmer, qualified veteran farmer, young
24	farmer, or

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1	"(B) any entity if 50 percent or more of
2	the capital and profits of such entity are owned
3	by one or more individuals described in para-
4	graph (A).
5	"(2) BEGINNING FARMER.—The term 'begin-
6	ning farmer' means an individual that—
7	"(A) has not operated a farm, or
8	"(B) has operated a farm for not more
9	than 10 years.
10	"(3) Socially disadvantaged farmer.—The
11	term 'socially disadvantaged farmer' means an indi-
12	vidual who is a member of one or more of the fol-
13	lowing groups:
14	"(A) American Indians.
15	"(B) Alaska Natives.
16	"(C) Asians.
17	"(D) Blacks or African Americans.
18	"(E) Native Hawaiians or other Pacific Is-
19	landers.
20	"(F) Hispanics.
21	"(G) Women.
22	"(4) QUALIFIED VETERAN FARMER.—The term
23	'qualified veteran farmer' means an individual
24	who—

1	"(A) first obtained status as a veteran (as
2	defined in section $101(2)$ of title 38 United
3	States Code) in the most recent 10-year period,
4	and
5	"(B) has not operated a farm for more
6	than 10 years.
7	"(5) Young farmer.—The term 'young farm-
8	er' means an individual who has not attained age 46
9	as of the date of the sale or transfer referred to in
10	subsection (a).
11	"(6) Qualified farm property.—
12	"(A) IN GENERAL.—The term 'qualified
13	farm property' means real property located in
14	the United States if—
15	"(i) during the 5-year period ending
16	on the date of the sale or exchange re-
17	ferred to in subsection (a), such property
18	has been used by the taxpayer or a mem-
19	ber of the family of the taxpayer as a farm
20	for farming purposes for periods aggre-
21	gating 3 years or more, and
22	"(ii) there was material participation
23	by the taxpayer or a member of the family
24	of the taxpayer in the operation of the
25	farm during such 3 years.

1 "(B) SPECIAL RULE FOR QUALIFIED FARM 2 PROPERTY HELD BY AN ENTITY.—For purposes 3 of this section, if the taxpayer referred to in 4 paragraph (A) is other than an individual and 5 all of the capital and profits interests of such 6 entity are held by members of a single family, 7 then such members shall be treated as members 8 of the family of such taxpayer. "(7) RECAPTURE PERIOD.—The term 'recap-9 10 ture period' means the 10-year period following the 11 sale or exchange of qualified farm property described 12 in subsection (a). 13 "(8) OTHER DEFINITIONS.—The terms 'mem-14 ber of the family', 'farm', 'farming purposes', and 15 'material participation' have the respective meanings 16 given such terms in section 2032A(e). 17 "SEC. 121B. EXCLUSION OF GAIN FROM SALE OF AGRICUL-18 TURAL CONSERVATION EASEMENT. 19 "(a) EXCLUSION.—Gross income shall not include 20 gain from the sale or exchange of an agricultural conserva-21 tion easement. 22 "(b) LIMITATION.— "(1) IN GENERAL.—The amount of gain ex-23 cluded from gross income under subsection (a) with 24

1	respect to any taxable year shall not exceed the ex-
2	cess, if any of—
3	"(A) \$500,000 (\$1,000,000 in the case of
4	a joint return), over
5	"(B) the amount excluded from the gross
6	income of the taxpayer for all prior taxable
7	years.
8	"(2) Special rule for joint returns.—The
9	amount of the exclusion under subsection (a) on a
10	joint return for any taxable year shall be allocated
11	equally between the spouses for purposes of applying
12	the limitation under paragraph (1) for any suc-
13	ceeding taxable year.
14	"(c) Agricultural Conservation Easement De-
15	FINED.—The term 'agricultural conservation easement'
16	means an easement or conservation-related restriction on
17	agricultural land (granted in perpetuity) that—
18	"(1) is conveyed for the purpose of protecting
19	natural resources and the agricultural nature of the
20	land, and
21	((2)) permits the landowner the right to con-
22	tinue agricultural production and related uses.
23	"(d) Special Rules.—For purposes of this section,
24	rules similar to the rules of subsections (e) and (f) of sec-
25	tion 121 shall apply.".

1	(b) Conforming Amendment.—The table of sec-
2	tions for part III of subchapter B of chapter 1 of the In-
3	ternal Revenue Code of 1986 is amended by adding after
4	the item relating to section 121 the following new items:
	"121A. Exclusion of gain from sale of qualified farm property. "121B. Exclusion of gain from sale of agricultural conservation easement.".
5	(c) EFFECTIVE DATE.—The amendments made by
6	this section shall apply to any sale or exchange in taxable
7	years ending after December 31, 2021.
8	SEC. 404. FARMLAND PROTECTION POLICY ACT.
9	(a) FINDINGS, PURPOSE, AND DEFINITIONS.—Sec-
10	tion 1540 of the Agriculture and Food Act of 1981 (7
11	U.S.C. 4201) is amended—
12	(1) in subsection (a)—
13	(A) by redesignating paragraphs (4)
14	through (7) as paragraphs (5) through (8), re-
15	spectively; and
16	(B) by inserting after paragraph (3) the
17	following:
18	"(4) the Nation's farmland is a vital source of
19	environmental services, such as carbon sequestra-
20	tion;";
21	(2) in subsection (b), by inserting "tribal,"
22	after "State,"; and
23	(3) in subsection (c)—
24	(A) in paragraph (1)—

1	(i) in subparagraph (B), by striking
2	"that is used for" and inserting "that is
3	suitable for"; and
4	(ii) in subparagraph (C), by inserting
5	"and is suitable" after "local importance";
6	(B) in paragraph (4), by striking "; and"
7	and inserting a semicolon;
8	(C) in paragraph (5), by striking the pe-
9	riod at the end and inserting a semicolon; and
10	(D) by adding at the end the following:
11	"(6) the term 'conversion' means—
12	"(A) the physical conversion of farmland
13	to a nonagricultural use;
14	"(B) the effective conversion of farmland
15	as a consequence of physical conversion of adja-
16	cent farmland, which threatens the continued
17	viability of the land for agricultural use; or
18	"(C) a change in management of federally
19	owned land historically used for agriculture to
20	a non-agricultural use;
21	((7) the term 'farmland of national signifi-
22	cance' is farmland that is the most suitable for in-
23	tensive crop and food production, as determined by
24	the Secretary, taking into consideration, among

1	other factors, its physical and chemical characteris-
2	tics; and
3	"(8) the term 'permanently protected farmland'
4	means farmland encumbered by a conservation ease-
5	ment held by the Federal government, by a State,
6	tribal, or local unit of government, or by a land con-
7	servation organization, that is perpetual or the max-
8	imum number of years allowed by State law.".
9	(b) FARMLAND PROTECTION POLICY.—Section 1541
10	of the Agriculture and Food Act of 1981 (7 U.S.C. 4202)
11	is amended to read as follows:
12	"SEC. 1541. FARMLAND PROTECTION POLICY.
13	"(a) IN GENERAL.—It is the policy of the United
14	States that Federal programs—
15	"(1) shall minimize the conversion of farmland
16	to nonagricultural uses; and
17	((2)) shall not convert to nonagricultural uses
18	farmland—
19	"(A) that is permanently protected farm-
20	land;
21	"(B) that has been defined and delineated
22	by the Secretary under subsection (b) as farm-
23	land of national significance; or
24	"(C) that has been defined and delineated
25	by a State as significant to the State or a pri-

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1	ority for inclusion in a State farmland protec-
2	tion program and for which the State has sub-
3	mitted a description under subsection (b).
4	"(b) Definition and Delineation of Land.—
5	"(1) NATIONAL SIGNIFICANCE.—The Secretary
6	shall define and delineate farmland of national sig-
7	nificance, and shall convene a group of experts, in-
8	cluding agronomists and soil scientists, to assist in
9	such definition and delineation.
10	"(2) STATE SIGNIFICANCE.—Any State wishing
11	to have land recognized under subsection $(a)(2)(C)$
12	shall provide a definition and delineation of such
13	lands to the Secretary.
14	"(c) PROCESS AND CRITERIA.—
15	"(1) PROCESS AND CRITERIA.—The Secretary
16	shall develop a process, including criteria—
17	"(A) to—
18	"(i) determine the potential conver-
19	sion of farmland as a consequence of any
20	action or activity conducted through a
21	Federal program;
22	"(ii) minimize the conversion of farm-
23	land or, for land identified under sub-
24	section $(a)(2)$, avoid conversion; and

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1	"(iii) provide notice regarding such
2	actions to the Secretary; and
3	"(B) that the Secretary shall use to make
4	determinations under subsection (d).
5	"(2) USE REQUIRED.—Each department, agen-
6	cy, independent commission, and other unit of the
7	Federal Government shall use the process and cri-
8	teria developed under paragraph (1) in carrying out
9	a Federal program.
10	"(d) EXEMPTION.—Subsection (a)(2) shall not apply
11	if the Secretary determines, based on the process and cri-
12	teria developed under subsection (c), that converting farm-
13	land to nonagricultural uses cannot be avoided. In in-
14	stances where the Secretary makes such a determination,
15	the Federal program shall minimize the conversion of land
16	described in subsection $(a)(2)$ to the maximum extent
17	practicable.
18	"(e) INFORMATION.—The Secretary may make avail-
19	able to States, units of local government, individuals, orga-
20	nizations, and other units of the Federal Government in-
21	formation—
22	"(1) useful in restoring, maintaining, and im-
23	proving the quantity and quality of farmland; and
24	((2)) concerning the location of permanently
25	protected farmland.

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1	"(f) Assistance.—The Secretary shall provide as-
2	sistance to departments, agencies, independent commis-
3	sions, and other units of the Federal Government, upon
4	request, in using the process and criteria developed under
5	subsection (c).".
6	SEC. 405. AGRICULTURE CONSERVATION EASEMENT PRO-
7	GRAM.
8	Section 1265B of the Food Security Act of 1985 (16
9	U.S.C. 3865b) is amended—
10	(1) in subsection (b)—
11	(A) in paragraph $(4)(C)(iv)$, by striking
12	"only"; and
13	(B) by adding at the end the following:
14	"(6) CONDITION OF ASSISTANCE.—As a condi-
15	tion of receiving cost-share assistance under this sec-
16	tion, the owner of eligible land must agree to have
17	in place a conservation plan that addresses applica-
18	ble resource concerns for the land subject to the
19	easement, including soil health and greenhouse gas
20	emissions reduction, not later than three years fol-
21	lowing the grant of the easement. The requirement
22	of this subparagraph may be satisfied by having in
23	place a concorrection plan developed on recorrized by
	place a conservation plan developed or recognized by

4 provide technical assistance, if requested, to assist in— 5 "(1) compliance with the terms and conditions 6 of easements; and

7 "(2) development and implementation of a con-8 servation plan required under subsection (b)(6), in-9 cluding, as applicable, a conservation plan for highly 10 erodible land required under subsection (b)(4)(C)(iv)11 or a comprehensive conservation plan developed pur-12 suant to subsection (e)(1).

"(e) FINANCIAL ASSISTANCE.— 13

14 "(1) IN GENERAL.—

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following:

15 "(A) ENROLLMENT IN CSP.—At the sole 16 option of the owner of the land subject to the 17 easement, the Secretary shall provide for the 18 automatic enrollment of the land subject to the 19 easement in the conservation stewardship pro-20 gram established by subchapter B of chapter 4 21 of subtitle D, including financial assistance for 22 the development of a comprehensive conserva-23 tion plan as provided by 1240L(e), if the person 24 or entity farming the land is otherwise eligible

1	for the program, as determined by the Sec-
2	retary.
3	"(B) DETERMINATION OF COMPLIANCE.—
4	Determining compliance with the terms of the
5	conservation stewardship program contract is
6	the sole responsibility of the Secretary.
7	"(C) FUNDING.—Funding received by an
8	eligible entity pursuant to this paragraph shall
9	not be considered in the calculation of costs
10	under subsection (b).
11	"(2) TIMING.—The owner of the land subject to
12	the easement shall have up to three years after the
13	grant of the easement to exercise the option to enroll
14	in the conservation stewardship program as provided
15	under subparagraph (A).".
16	TITLE V—PASTURE-BASED
17	LIVESTOCK
18	SEC. 501. ANIMAL RAISING CLAIMS.
19	The Agricultural Marketing Act of 1946 (7 U.S.C.
20	1621 et seq.) is amended by adding at the end the fol-
21	lowing:

"Subtitle H—Animal Raising Claims

3 "SEC. 298. REQUIRED VERIFICATION PROCESS FOR ANIMAL

RAISING CLAIMS.

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5 "(a) IN GENERAL.—In order to facilitate marketing, truth in labeling, and new economic opportunities for pro-6 7 ducers and businesses using animal raising claims, the 8 Secretary, acting through the Administrator of the Agri-9 cultural Marketing Service in coordination with the Ad-10 ministrator of the Food Safety and Inspection Service, shall establish, not later than 2 years after the date of 11 12 the enactment of this subtitle, after providing notice and 13 an opportunity to comment, and in a manner consistent 14 with United States obligations under international agree-15 ments-

"(1) mandatory standards with respect to animal raising claims that may be made on the labeling
of any meat food products or poultry product;

"(2) procedures to verify any such claims prior
to the use in commerce of any meat food product or
poultry product bearing labeling with such a claim;
"(3) procedures whereby any such verification
is subsequently incorporated seamlessly with labeling
requirements under the Federal Meat Inspection Act

1	(21 U.S.C. 601 et seq.) and the Poultry Products
2	Inspection Act (21 U.S.C. 451 et seq.); and
3	"(4) on-farm and supply chain auditing and
4	verification procedures for ensuring the truthfulness
5	of such claims.
6	"(b) STANDARDS.—In developing and approving ani-
7	mal raising claim standards under subsection (a), the Sec-
8	retary shall include standards relating to—
9	"(1) diet claims, including grass-fed, vege-
10	tarian-fed, and fed no animal byproducts;
11	"(2) living and raising condition claims, includ-
12	ing but not limited to cage free, free range, and pas-
13	ture raised;
14	"(3) antibiotic and hormone claims, including
15	but not limited to raised without antibiotics, no hor-
16	mones added (beef cattle, sheep), and raised without
17	growth promotants;
18	"(4) source claims demonstrating the animal
19	can be traced back to its farm of origin from birth
20	to slaughter;
21	"(5) age claims;
22	"(6) animal welfare claims;
23	((7) environmental stewardship claims, includ-
24	ing greenhouse gas reduction and carbon sequestra-
25	tion claims;

"(8) breed claims; and

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2 "(9) any other such claim as the Secretary de3 termines is appropriate.

4 "(c) THIRD-PARTY CERTIFICATION.—A producer of
5 a meat food product or a poultry product may use an ani6 mal raising claim that is verified by a third party so long
7 as—

8 "(1) the claim is made consistent with stand-9 ards established by the Secretary pursuant to sub-10 section (a); and

11 "(2) the procedures used by such third party 12 for purposes of that verification and any subsequent 13 auditing are equivalent (as determined by the Sec-14 retary) to the procedures used by the Secretary for 15 that verification and auditing.

16 "(d) APPROVAL PROCESS.—To the maximum extent 17 practicable, the Secretary shall require that a producer 18 seeking to make an animal raising claim, submit to the 19 Secretary prior to using the product that is the subject 20 of such animal raising claim the following documentation 21 to support such claim—

"(1) detailed written descriptions explaining the
controls used for ensuring that the raising claim is
valid from birth to harvest or the period of raising
being referenced by the claim;

1	"(2) a signed and dated document describing
2	how the animals are raised to support that specific
3	claim made is truthful and not misleading;
4	"(3) a written description of the product trac-
5	ing and segregation mechanism from time of slaugh-
6	ter or further processing through packaging and dis-
7	tribution;
8	"(4) a written description for the identification,
9	control, and segregation of non-conforming animals
10	or products; and
11	"(5) if a third party certifies a claim, a current
12	copy of the certificate.
13	"(e) Effect on Other Laws.—Nothing in this sec-
14	tion shall be construed to alter the authority of the Sec-
15	retary under the Federal Meat Inspection Act (21 U.S.C.
16	601 et seq.) or the Poultry Products Inspection Act $(21$
17	U.S.C. 451 et. seq.).
18	"(f) Consistency With Other Laws.—The Sec-
19	retary shall ensure consistency between the animal raising
20	claims standards established pursuant to subsection (a)
21	and the Organic Food Production Act of 1990 (7 U.S.C.
22	6501 et seq.) and any rules or regulations implementing
23	that Act.

"(g) COMPLIANCE REQUIREMENTS.—Beginning on
 the date that is three years after the date of the enactment
 of this Act—

4 "(1) in the case of a domestic meat food prod5 uct or poultry product—

6 "(A) a person may sell or label a meat 7 food product or poultry product with an animal 8 raising label claim only if such products is pro-9 duced and handled in accordance with the 10 standards established pursuant to subsection 11 (a); and

"(B) no person may sell or label a meat
food product or poultry product with an animal
raising label claim that is not in compliance
with such standards; and

"(2) in the case of an imported meat food prod-16 17 uct or poultry product, such a product may be sold 18 or labeled with animal raising label claims if the 19 Secretary determines such product has been pro-20 duced and handled under a verification program that 21 provides safeguards and guidelines that are at least 22 equivalent to the requirements of the standards es-23 tablished pursuant to subsection (a).

24 "(h) VIOLATION OF THIS TITLE.—

"(1) MISUSE OF LABEL.—Any person who,
after notice and an opportunity to be heard, is found
by the Secretary to have knowingly sold or labeled
any meat food product or poultry product with an
animal raising claim, except in accordance with this
subtitle, shall be assessed a civil penalty of not more
than \$10,000.

8 "(2) FALSE STATEMENT.—Any person who 9 after notice and an opportunity to be heard, has 10 been found by the Secretary to makes a false, fraud-11 ulent, or fictitious statement to the Secretary, a gov-12 erning Federal or State official, or a third-party cer-13 tifier, or conceals, covers up, falsifies, or deceives a 14 material fact to the Secretary, a governing Federal 15 or State official, or a third-party certifier with re-16 spect to an animal raising claim subject to the re-17 quirements of this subtitle shall be subject to a pen-18 alty specified in section 1001 of title 18, United 19 States Code.

20 "(i) AUTHORIZATION OF APPROPRIATIONS.—There
21 are authorized to be appropriated to carry out this subtitle
22 such sums as may be necessary.

23 "SEC. 299. APPLICABILITY.

24 "This subtitle shall only apply to meat food products25 and poultry products that are subject to labeling require-

1 ments under the Federal Meat Inspection Act (21 U.S.C.

2 601 et seq.) and the Poultry Products Inspection Act (21

3 U.S.C. 451 et seq.).

4 "SEC. 300. DEFINITIONS.

5 "In this subtitle:

6 "(1) The term 'animal raising claim' means a 7 statement on the labeling of meat food products or 8 poultry products used in interstate commerce that 9 reference the way that the source animal for a meat 10 food product or poultry product was raised, includ-11 ing production practices that were used, such as liv-12 ing or raising conditions, the breed, or the location 13 or source of where the product is born, raised, and 14 processed.

15 "(2) The term 'meat food product' has the
16 meaning given such term in section 1(j) of the Fed17 eral Meat Inspection Act (21 U.S.C. 601(j)).

18 "(3) The term 'poultry product' has the mean19 ing given such term in section 4(f) of the Poultry
20 Products Inspection Act (7 U.S.C. 453(f)).".

21 SEC. 502. PROCESSING RESILIENCE GRANT PROGRAM.

Subtitle A of the Agricultural Marketing Act of 1946
(7 U.S.C. 1621 et seq.) is amended by adding at the end
the following:

1 "SEC. 210B. PROCESSING RESILIENCE GRANT PROGRAM.

2 "(a) ELIGIBLE ENTITY.—In this section, the term
3 'eligible entity' means—

4 "(1) a small or very small establishment, as de5 fined in the final rule entitled 'Pathogen Reduction;
6 Hazard Analysis and Critical Control Point
7 (HACCP) Systems' (61 Fed. Reg. 33806 (July 25,
8 1996));

9 "(2) a slaughtering or processing establishment
10 operating under a State inspection program that
11 meets the criteria specified in section 301(a) of the
12 Federal Meat Inspection Act (21 U.S.C. 661) or sec13 tion 5 of the Poultry Products Inspection Act (21
14 U.S.C. 454);

"(3)(A) a person, firm, or corporation exempt
from inspection under the Federal Meat Inspection
Act (21 U.S.C. 601 et seq.) pursuant to section 23
of such Act (21 U.S.C. 623); and

"(B) a retail dealer, poultry producer, or person
exempt from inspection under the Poultry Products
Inspection Act (21 U.S.C. 451 et seq.) pursuant to
section 15 of such Act (21 U.S.C. 464); and

23 "(4) an entity seeking to establish and operate
24 an establishment that would meet the criteria speci25 fied in paragraph (1), (2), or (3).

"(b) GRANTS.—The Secretary shall establish a grant
 program to provide competitive grants to eligible entities
 to expand processing capacity, create jobs, support health
 and safety, and enhance the resilience of the farm and
 food sector.

6 "(c) USE OF FUNDS.—An entity selected to receive
7 a grant under this section may use the funds received
8 through such grant for activities including—

9 "(1) the cost of developing and issuing (other
10 than the cost of labor), directly incurred or incurred
11 by a consultant, a Hazard Analysis and Critical
12 Control Points plan for the eligible entity;

"(2) the actual cost of any facilities, equipment,
processes, and operations necessary for the establishment to comply with the Federal Meat Inspection
Act (21 U.S.C. 601 et seq.) or Poultry Products Inspection Act (21 U.S.C. 451 et seq.);

18 "(3) cold storage, equipment, or transportation19 services;

20 "(4) constructing or acquiring humane handling
21 infrastructure, including holding space for livestock
22 holding prior to slaughter, shade structures, and
23 knock box structures;

1	"(5) purchasing software and computer equip-
2	ment for record keeping, production data, Hazard
3	Analysis and Critical Control Points record review;
4	"(6) the costs of staff time and training for im-
5	plementing and monitoring health and safety proce-
6	dures;
7	"(7) the development of a feasibility study or
8	business plan for those interested in expanding or
9	starting a new small establishment; and
10	"(8) other costs associated with expanding or
11	establishing a small establishment or very small es-
12	tablishment, as determined by the Secretary.
13	"(d) Applications.—
14	"(1) IN GENERAL.—An eligible entity seeking a
15	grant under this section shall submit to the Sec-
16	retary an application in accordance with an applica-
17	tion process established by the Secretary.
18	"(2) SIMPLIFIED PROCESS.—In establishing the
19	application process under paragraph (1), the Sec-
20	retary shall establish a simplified, separate applica-
21	tion of up to \$100,000.
22	"(3) REQUIREMENTS.—The Secretary shall en-
23	sure that the application required under paragraph
24	(2) is—
25	"(A) as simple as is practicable;

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"(B) accessible online; and
"(C) available through local staff of the
Department of Agriculture.
"(e) MAXIMUM AMOUNT.—The amount of a grant
under this section shall be not more than \$500,000.
"(f) Administration.—The administration of this
section, including the promulgation of regulations to carry
out this section, shall be without regard to—
((1) the notice and comment provisions of sec-
tion 553 of title 5, United States Code; and
"(2) chapter 35 of title 44, United States Code.
"(g) Process.—
"(1) OUTREACH.—During the period beginning
on the date on which the Secretary begins to accept
applications, the Secretary shall perform outreach to
States and eligible entities relating to grants under
this section.
"(2) REAPPLICATION.—In the case of a denial
of an application under this section, the eligible enti-
ty submitting such application may submit a revised
application, as specified by the Secretary in regula-
tions.
"(3) PRIORITY.—In reviewing applications sub-
mitted under paragraph (1), the Secretary shall give
priority to proposals that would—

1	"(A) increase farmer and rancher access to
2	animal slaughter options within a 200 mile ra-
3	dius;
4	"(B) support a small or very small plant
5	with less than 150 employees; or
6	"(C) support minority-owned businesses
7	that are defined as for-profit businesses where
8	not less than 51 percent of such business is
9	owned by 1 or more Black American, Native
10	American, Hispanic American, or Asian Amer-
11	ican individuals.
12	"(h) FEDERAL SHARE.—Funds provided under a
13	grant under this section shall not exceed 50 percent of
14	the costs referred to in subsection (c), as determined by
15	the Secretary.
16	"(i) FUNDING.—
17	"(1) MANDATORY FUNDING.—Of the funds of
18	the Commodity Credit Corporation, the Secretary
19	shall make available to carry out this section
20	\$10,000,000 for each of fiscal years 2022 through
21	2030.
22	"(2) Authorization of appropriations.—
23	There are authorized to be appropriated to carry out
24	this section \$15,000,000 for each of fiscal years
25	2022 through 2030.".

1	SEC. 503. CONSERVATION OF PRIVATE GRAZING LAND.
2	(a) PURPOSE.—Section 1240M(a) of the Food Secu-
3	rity Act of 1985 (16 U.S.C. 3839bb(a)) is amended—
4	(1) in paragraph (6) , by inserting "conserving"
5	water and" before "improving";
6	(2) in paragraph (7), by striking "; and" and
7	inserting a semicolon;
8	(3) in paragraph (8), by striking the period at
9	the end and inserting "; and"; and
10	(4) by adding at the end the following:
11	"(9) conserving and improving soil health and
12	improving grazing system resilience in the face of
13	climate change through advanced grazing manage-
14	ment practices; and
15	"(10) providing support for producers
16	transitioning from confinement and feedlot systems
17	or continuous grazing to managed grazing-based sys-
18	tems, including support for pasture development and
19	management.".
20	(b) Definitions.—Section $1240M(b)(2)$ of the Food
21	Security Act of 1985 (16 U.S.C. 3839bb(b)(2)) is amend-
22	ed by striking "hay land" and inserting "perennial hay
23	land, including silvopasture".
24	(c) Private Grazing Land Conservation Assist-
25	ANCE.—Section $1240M(c)$ of the Food Security Act of
26	1985 (16 U.S.C. 3839bb(c)) is amended—

1	(1) in	paragraph	(1)—

2	(A) in the matter preceding subparagraph
3	(A), by inserting "and partnerships described in
4	paragraph (2)(B)" after "local conservation dis-
5	tricts'';
6	(B) in subparagraph (B), by striking
7	"grazing land management technologies" and
8	inserting "regionally appropriate, advanced
9	grazing land management technologies to im-
10	prove soil health and maximize carbon seques-
11	tration";
12	(C) in subparagraph (C)(iv), by inserting
13	"through integrated strategies that include ro-
14	tational and multispecies grazing, integrated
15	pest management, and other ecological prac-
16	tices" after "brush encroachment problems";

17 (D) in subparagraph (H), by striking ";18 and" and inserting a semicolon;

(E) in subparagraph (I), by striking theperiod at the end and inserting "; and"; and

21 (F) by adding at the end the following:
22 "(J) assisting producers in transitioning
23 from confinement or feedlot systems or contin24 uous grazing to managed grazing-based sys-

1	tems, including assistance in pasture develop-
2	ment and management."; and
3	(2) by amending paragraph (2) to read as fol-
4	lows:
5	"(2) Program elements.—
6	"(A) TECHNICAL ASSISTANCE AND EDU-
7	CATION.—Personnel of the Department trained
8	in pasture and range management shall be
9	made available under the program to deliver
10	and coordinate technical assistance and edu-
11	cation to owners and managers of private graz-
12	ing land, including owners and managers inter-
13	ested in developing new or improved pasture or
14	grazing-based systems on their land, at the re-
15	quest of the owners and managers.
16	"(B) PARTNERSHIPS.—In carrying out the
17	program under this section, the Secretary shall
18	provide research, demonstration, education (in-
19	cluding conferences, workshops, field days, and
20	trainings), workforce training, planning, and
21	outreach activities through partnerships with—
22	"(i) land-grant colleges and univer-
23	sities (as defined in section 1404 of the
24	National Agricultural Research, Extension,

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1	and Teaching Policy Act of 1977 (7 U.S.C.
2	(3103));
3	"(ii) nongovernmental organizations;
4	and
5	"(iii) tribal organizations.
6	"(C) GRANTS.—
7	"(i) IN GENERAL.—In carrying out
8	the program under this section, the Sec-
9	retary shall provide funds on a competitive
10	basis to partnerships to use for State or
11	local action grants to conduct grazing land
12	research, demonstration, education, work-
13	force training, planning, and outreach
14	projects.
15	"(ii) DURATION.—Grants made by
16	partnerships under this section shall be for
17	a period not to exceed 3 years.
18	"(iii) Cost sharing.—A partnership
19	that receives funding under this section
20	shall ensure that any funded project pro-
21	vides, from non-Federal sources, funds or
22	in-kind support valued at not less than 25
23	percent of the total cost of the project.
24	"(iv) Limitation on indirect
25	COSTS.—A partnership that receives fund-

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1	ing under this section may not use more
2	than 15 percent of the total cost of the
3	project for the indirect costs of carrying
4	out the project.
5	"(v) Priority.—Priority shall be
6	given to projects that—
7	"(I) focus on sustainable grazing
8	management systems and techniques
9	that assist producers with multiple
10	ecosystem services, including climate
11	change adaptation and mitigation;
12	and
13	"(II) involve beginning farmers
14	and ranchers, socially disadvantaged
15	farmers and ranchers, tribal pro-
16	ducers, or new graziers (including
17	State or federally registered appren-
18	ticeships).".
19	(d) Grazing Technical Assistance Self-
20	Help.—Section 1240M(d) of the Food Security Act of
21	1985 (16 U.S.C. 3839bb(d)) is amended—
22	(1) in paragraph $(1)(A)$, by inserting "and for
23	those interested in beginning grazing' before the
24	semicolon;

1	(2) in paragraph (2), by striking "may establish
2	2" and inserting "may establish"; and
3	(3) in paragraph $(3)(C)$ —
4	(A) in clause (ii), by striking "; and" and
5	inserting a semicolon;
6	(B) by redesignating clause (iii) as clause
7	(iv); and
8	(C) by inserting after clause (ii) the fol-
9	lowing:
10	"(iii) will improve climate change ad-
11	aptation and mitigation; and".
12	(e) Authorization of Appropriations.—Section
13	1240M(e) of the Food Security Act of 1985 (16 U.S.C.
14	3839bb(e)) is amended to read as follows:
15	"(e) FUNDING.—
16	"(1) MANDATORY FUNDING.—Of the funds of
17	the Commodity Credit Corporation, the Secretary
18	shall use to carry out this section \$50,000,000 for
19	each of fiscal years 2022 through 2030.
20	"(2) GRANTS.—Of the funds made available
21	under paragraph (1), the Secretary shall use not
22	more than 40 percent to carry out subsection
23	(c)(2)(C).
24	"(3) Authorization of appropriations.—
25	There is authorized to be appropriated to carry out

1	this section \$60,000,000 for each of fiscal years
2	2002 through 2030.".
3	SEC. 504. CONSERVATION RESERVE PROGRAM.
4	(a) Conservation Reserve.—Section 1231(d) of
5	the Food Security Act of 1985 (16 U.S.C. 3831(d)) is
6	amended—
7	(1) in paragraph (1) —
8	(A) in subparagraph (D), by striking ";
9	and" and inserting a semicolon;
10	(B) in subparagraph (E), by striking the
11	period at the end and inserting "; and"; and
12	(C) by adding at the end the following:
13	"(F) fiscal years 2024 through 2030, not
14	more than 32,000,000 acres."; and
15	(2) in paragraph $(2)(A)$ —
16	(A) in clause (i), by striking "; and" and
17	inserting a semicolon;
18	(B) in clause (ii)(III), by striking the pe-
19	riod and inserting "; and"; and
20	(C) by adding at the end the following:
21	"(iii) the Secretary shall enroll and
22	maintain in the conservation reserve not
23	fewer than 7,000,000 acres of land de-
24	scribed in subsection $(b)(3)$ by September
25	30, 2030, of which 5,000,000 acres shall

1	be reserved for the pilot program estab-
2	lished under section 1231C(c).".
3	(b) PILOT PROGRAMS.—Section 1231C of the Food
4	Security Act of 1985 (16 U.S.C. 3831c) is amended by
5	adding at the end the following:
6	"(c) Grasslands 30.—
7	"(1) IN GENERAL.—
8	"(A) ENROLLMENT.—The Secretary shall
9	establish a pilot program to enroll land in the
10	conservation reserve program through a 30-year
11	conservation reserve contract (referred to in
12	this subsection as a 'Grassland 30 contract') in
13	accordance with this subsection.
14	"(B) INCLUSION OF ACREAGE LIMITA-
15	TION.—For purposes of applying the limitations
16	in section $1231(d)(1)$, the Secretary shall in-
17	
1/	clude acres of land enrolled under this sub-
17	clude acres of land enrolled under this sub- section.
18	section.
18 19	section. "(2) ELIGIBLE LAND.—Eligible land for enroll-
18 19 20	section. "(2) ELIGIBLE LAND.—Eligible land for enroll- ment through a Grassland 30 contract—
18 19 20 21	section. "(2) ELIGIBLE LAND.—Eligible land for enroll- ment through a Grassland 30 contract— "(A) is land that is eligible to be enrolled

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"(B) shall not be limited to land that is
subject to an expired covered contract.
"(3) Expired conservation contract elec-
TION.—
"(A) DEFINITION OF COVERED CON-
TRACT.—In this paragraph, the term 'covered
contract' means a contract entered into under
this subchapter that—
"(i) expires on or after the date of en-
actment of this subsection; and
"(ii) covers land enrolled in the con-
servation reserve program under the grass-
lands initiative described in section
1231(d)(2).
"(B) ELECTION.—On the expiration of a
covered contract, an owner or operator party to
the covered contract shall elect—
"(i) not to reenroll the land under the
contract;
"(ii) to offer to reenroll the land
under the contract if the land remains eli-
gible under the terms in effect as of the
date of expiration; or
"(iii) not to reenroll the land under
the contract and to enroll that land

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1	through a Grassland 30 contract under
2	this subsection.
3	"(4) TERM.—The term of a Grassland 30 con-
4	tract shall be 30 years.
5	"(5) AGREEMENTS.—To be eligible to enroll
6	land in the conservation reserve program through a
7	Grassland 30 contract, the owner of the land shall
8	enter into an agreement with the Secretary—
9	"(A) to implement a conservation reserve
10	plan developed for the land;
11	"(B) to comply with the terms and condi-
12	tions of the contract and any related agree-
13	ments; and
14	"(C) to temporarily suspend the base his-
15	tory for the land covered by the contract.
16	"(6) TERMS AND CONDITIONS OF GRASSLAND
17	30 CONTRACTS.—
18	"(A) IN GENERAL.—A Grassland 30 con-
19	tract shall include terms and conditions that
20	promote sustainable grazing systems, protect
21	and enhance soil carbon levels, and are compat-
22	ible with wildlife habitat conservation, as deter-
23	mined by the Secretary, and may include any
24	additional provision that the Secretary deter-
25	mines is appropriate to carry out this sub-

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1	section or facilitate the practical administration
2	of this subsection.
3	"(B) VIOLATION.—On the violation of a
4	term or condition of a Grassland 30 contract,
5	the Secretary may require the owner to refund
6	all or part of any payments received by the
7	owner under the conservation reserve program,
8	with interest on the payments, as determined
9	appropriate by the Secretary.
10	"(C) COMPATIBLE USES.—Land subject to
11	a Grassland 30 contract may be used for com-
12	patible economic uses, including hunting and
13	fishing, if the use—
14	"(i) is specifically permitted by the
15	conservation reserve plan developed for the
16	land; and
17	"(ii) is consistent with the long-term
18	protection and enhancement of the con-
19	servation resources for which the contract
20	was established.
21	"(7) Compensation.—
22	"(A) Amount of payments.—The Sec-
23	retary shall provide payment under this sub-
24	section to an owner of land enrolled through a
25	Grassland 30 contract using 30 annual pay-

ments in an amount equal to the amount that
would be used if the land were to be enrolled
in the conservation reserve program under sec-
tion $1231(d)(2)$.
"(B) FORM OF PAYMENT.—Compensation
for a Grassland 30 contract shall be provided
by the Secretary in the form of a cash payment
in an amount determined under subparagraph
(A).
"(C) TIMING.—The Secretary shall provide
any annual payment obligation under subpara-
graph (A) as early as practicable in each fiscal
year.
"(D) PAYMENTS TO OTHERS.—The Sec-
retary shall make a payment, in accordance
with regulations prescribed by the Secretary, in
a manner as the Secretary determines is fair
and reasonable under the circumstances, if an
owner who is entitled to a payment under this
section—
"(i) dies;
"(ii) becomes incompetent;
"(iii) is succeeded by another person
or entity who renders or completes the re-
quired performance; or

1	"(iv) is otherwise unable to receive the
2	payment.
3	"(8) TECHNICAL ASSISTANCE.—
4	"(A) IN GENERAL.—The Secretary shall
5	assist owners in complying with the terms and
6	conditions of a Grassland 30 contract.
7	"(B) Contracts or agreements.—The
8	Secretary may enter into 1 or more contracts
9	with private entities or agreements with a
10	State, nongovernmental organization, or Indian
11	Tribe to carry out necessary maintenance of a
12	Grassland 30 contract if the Secretary deter-
13	mines that the contract or agreement will ad-
14	vance the purposes of the conservation reserve
15	program.
16	"(9) Administration.—
17	"(A) CONSERVATION RESERVE PLAN.—
18	The Secretary shall develop a conservation re-
19	serve plan for any land subject to a Grassland
20	30 contract, which shall include practices and
21	activities necessary to maintain, protect, and
22	enhance the conservation value of the enrolled
23	land, including the protection and enhancement
24	of soil carbon levels.

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1 "(B) DELEGATION OF CONTRACT ADMINIS-2 TRATION.—

"(i) FEDERAL, STATE, TRIBAL, OR 3 4 LOCAL GOVERNMENT AGENCIES.—The Secretary may delegate any of the manage-5 6 ment, monitoring, and enforcement respon-7 sibilities of the Secretary under this sub-8 section to other Federal, State, Tribal, or 9 local government agencies that have the appropriate authority, expertise, and re-10 11 sources necessary to carry out those dele-12 gated responsibilities.

13 "(ii) CONSERVATION **ORGANIZA-**14 TIONS.—The Secretary may delegate any 15 management responsibilities of the Sec-16 retary under this subsection to conserva-17 tion organizations if the Secretary deter-18 mines the conservation organization has 19 similar expertise and resources.".

20 SEC. 505. ALTERNATIVE MANURE MANAGEMENT PROGRAM.

Chapter 5 of subtitle D of title XII of the Food Security Act of 1985 (16 U.S.C. 3839bb et seq.) is further
amended by adding at the end the following:

1 "SEC. 1240T. ALTERNATIVE MANURE MANAGEMENT PRO-

GRAM.

2

3 "(a) DEFINITIONS.—In this section:

4 ((1))PASTURE-BASED MANAGEMENT.—The 5 term 'pasture-based management' means a dairy or 6 livestock production system in which the animals 7 spend all or a substantial portion of their time graz-8 ing on fields in which some or all of the manure is 9 deposited and left in the field and decomposes 10 aerobically.

11 "(2) Non-digester DAIRY OR LIVESTOCK 12 METHANE MANAGEMENT METHOD.—The term 'non-13 digester dairy or livestock methane management 14 method' means a method that may be used by opera-15 tors of dairy or livestock operations to transition 16 from wet manure handling and storage, where an-17 aerobic conditions are present, to dry manure han-18 dling and storage, including open solar drying or 19 composting of manure onsite, conversion of dairy 20 and livestock operations to pasture-based manage-21 ment, solid separation technologies, scrape conver-22 sion, and other strategies to mitigate methane emis-23 sions from manure management, as determined by 24 the Secretary.

25 "(3) ONSITE OPEN SOLAR DRYING OR
26 COMPOSTING OF MANURE.—The term 'onsite open
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solar drying or composting of manure' means the
 collection, storage, and drying of dairy or livestock
 manure in a nonliquid environment on a farm or
 ranch.

5 "(4) SCRAPE CONVERSION.—The term 'scrape 6 conversion' means the conversion of flush water la-7 goon systems to solid-scrape or dry manure manage-8 ment practices, including vacuum technologies for 9 manure management.

10 "(5) SOLID SEPARATION TECHNOLOGIES.—The
11 term 'solid separation technologies' means tech12 nologies designed to separate liquid components of
13 manure from mineral and organic solid components,
14 for the purposes of reducing methane emissions.

15 "(6) ELIGIBLE PRODUCER.—The term 'eligible 16 producer' means a dairy or livestock producer whose 17 baseline manure management practices prior to en-18 rollment in the program include the anaerobic de-19 composition of volatile solids stored in a lagoon or 20 other predominantly liquid anaerobic environment.

"(b) ESTABLISHMENT.—The Secretary shall establish an alternative manure management program to support non-digester dairy and livestock methane management strategies to effectively reduce greenhouse gas emissions and to maximize environmental benefits.

"(c) PAYMENTS.—During the 2022 through 2030 fis cal years, the Secretary shall provide payments to eligible
 producers that enter into contracts with the Secretary
 under the program.

5 "(d) PRACTICES.—Each eligible producer requesting
6 funding for a project under the program shall include at
7 least one of the following project components that reduce
8 baseline methane emissions on the operation of the pro9 ducer:

"(1) Conversion of dairy and livestock operations to pasture-based management that eliminates
or reduces the quantity of manure stored in anaerobic conditions, including—

14 "(A) conversion of a non-pasture dairy or
15 livestock operation to pasture-based manage16 ment;

17 "(B) increasing the amount of time live18 stock spend at pasture at an existing pasture
19 operation; or

20 "(C) improving pasture-based manage21 ment, including transitioning to managed rota22 tional grazing.

23 "(2) Alternative manure treatment and storage
24 practices, including—

1	"(A) installation of a compost bedded pack
2	barn that composts manure;
3	"(B) installation of slatted floor pit storage
4	manure collection that must be cleaned out at
5	least monthly; or
6	"(C) other similar practices, as determined
7	by the Secretary.
8	"(3) Conversion to a solid separation system in
9	which manure solids are separated prior to entry
10	into a wet, anaerobic environment at a dairy or live-
11	stock operation, or installation of a new solid separa-
12	tion system with significantly higher separation effi-
13	ciency than the existing solid separation system, in
14	conjunction with one or more of the following prac-
15	tices:
16	"(A) Open solar drying or composting of
17	manure onsite.
18	"(B) Solar drying in an enclosed environ-
19	ment.
20	"(C) Forced evaporation with natural-gas
21	fueled dryers.
22	"(D) Storage of manure in unconfined
23	piles or stacks.
24	"(E) Composting in an enclosed vessel,
25	with forced aeration and continuous mixing.

1	"(F) Composting in piles with forced aer-
2	ation but no mixing.
3	"(G) Composting in intensive windrows
4	with regular turning for mixing and aeration.
5	"(H) Composting in passive windrows with
6	infrequent turning for mixing and aeration.
7	"(4) Scrape conversion in conjunction with one
8	of the practices listed in paragraph (3).
9	"(e) TERM.—A contract under the program shall
10	have a term that does not exceed 3 years.
11	"(f) PAYMENTS.—
12	"(1) AVAILABILITY OF PAYMENTS.—Payments
13	provided to an eligible producer under this section
14	may be used to implement one or more practices de-
15	scribed in subsection (d).
16	"(2) PAYMENT AMOUNTS.—The Secretary may
17	provide a payment to an eligible producer under the
18	program for an amount that is up to 100 percent of
19	the costs associated with planning, design, materials,
20	equipment, installation, labor, management, mainte-
21	nance, and training related to implementing a prac-
22	tice described in subsection (d).
23	"(3) Limitation on payments.—A person or
24	legal entity (including a joint venture and a general
25	partnership) may not receive, directly or indirectly,

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1	payments under the program that exceed $$750,000$
2	during any 5-year period.
3	"(4) Advanced payments.—The Secretary
4	shall provide at least 50 percent of the amount of
5	total payments to an eligible producer in advance for
6	all costs related to purchasing materials and equip-
7	ment or contracting.
8	"(g) Modification or Termination of Con-
9	TRACTS.—
10	"(1) Voluntary modification or termi-
11	NATION.—The Secretary may modify or terminate a
12	contract entered into with an eligible producer under
13	the program if—
14	"(A) the producer agrees to the modifica-
15	tion or termination; and
16	"(B) the Secretary determines that the
17	modification or termination is in the public in-
18	terest.
19	"(2) INVOLUNTARY TERMINATION.—The Sec-
20	retary may terminate a contract under the program
21	if the Secretary determines that the eligible producer
22	violated the contract.
23	"(h) CLUSTER APPLICATIONS.—The Secretary shall
24	establish procedures under which—

"(1) groups of eligible producers may submit a
 joint application in order to facilitate centralized
 composting facilities; and

4 "(2) the Secretary will apportion payments to
5 each eligible producer associated with such a joint
6 application.

7 "(i) Evaluation of Applications.—

8 "(1) EVALUATION CRITERIA.—The Secretary 9 shall develop criteria for evaluating applications that 10 will ensure that the purposes of the program are ful-11 filled in a cost effective manner and in a manner 12 that will maximize greenhouse gas emissions reduc-13 tions and overall environmental benefits.

"(2) GROUPING OF APPLICATIONS.—The Secretary may group and evaluate applications relative
to other applications for similar farming operations.
"(j) DUTIES OF PRODUCERS.—To receive payments
under the program, an eligible producer shall agree—

"(1) to implement an alternative manure management program plan that describes the greenhouse
gas emissions reductions and other environmental
benefits to be achieved through 1 or more practices
that are approved by the Secretary;

1	((2) to supply information as required by the
2	Secretary to determine compliance with the program
3	plan and requirements of the program; and
4	"(3) to comply with such additional provisions
5	as the Secretary determines are necessary to carry
6	out the program plan.
7	"(k) Duties of the Secretary.—The Secretary
8	shall—
9	"(1) determine and publish factors for esti-
10	mating the emissions reductions for each program
11	practice to aid eligible producers in development of
12	applications and program plans; and
13	((2) assist an eligible producer in achieving the
14	greenhouse gas emissions reduction and other envi-
15	ronmental goals of the program plan by—
16	"(A) providing payments for developing
17	and implementing 1 or more practices, as ap-
18	propriate; and
19	"(B) providing the producer with informa-
20	tion, technical assistance, and training to aid in
21	implementation of the plan.
22	"(1) FUNDING.—The Secretary shall use the funds,
23	facilities, and authorities of the Commodity Credit Cor-
24	poration to carry out the program (including the provision
25	of technical assistance) using, to the maximum extent

practicable, \$1,500,000,000 for the period of fiscal years
 2022 through 2030.".

3 TITLE VI—ON-FARM 4 RENEWABLE ENERGY

5 SEC. 601. RURAL ENERGY FOR AMERICA PROGRAM.

6 Section 9007 of the Farm Security and Rural Invest7 ment Act of 2002 (7 U.S.C. 8107) is amended—

8 (1) in subsection (a)—

9 (A) in the matter preceding paragraph (1), 10 by striking "and renewable energy develop-11 ment" and inserting ", renewable energy devel-12 opment, and the reduction of carbon dioxide 13 and carbon dioxide equivalent emissions"; and

(B) in paragraph (2), by striking "and renewable energy systems" and inserting ", renewable energy systems, and carbon dioxide and
carbon dioxide equivalent gas emissions reductions";

- 19 (2) in subsection (b)—
- 20 (A) in paragraph (2)—

21 (i) in subparagraph (D), by striking
22 "and" at the end;

23 (ii) by redesignating subparagraph24 (E) as subparagraph (G); and

1	(iii) by inserting after subparagraph
2	(D) the following:
3	"(E) a nonprofit corporation;
4	"(F) an agricultural cooperative or pro-
5	ducer group; and";
6	(B) in paragraph $(3)(D)$, by inserting be-
7	fore the semicolon at the end the following: ",
8	including carbon dioxide and carbon dioxide
9	equivalent emissions reductions"; and
10	(C) in paragraph (4)—
11	(i) in the matter preceding subpara-
12	graph (A), by inserting ", agricultural
13	processors," after "agricultural pro-
14	ducers'';
15	(ii) in subparagraph (A), by striking
16	"and" at the end;
17	(iii) in subparagraph (B), by striking
18	the period at the end and inserting ";
19	and"; and
20	(iv) by adding at the end the fol-
21	lowing:
22	"(C) assisting in the development of feasi-
23	bility studies and plans for implementing rec-
24	ommendations provided under subparagraph
25	(B).";

1	(3) in subsection (c)—
2	(A) in paragraph (1)(A)(i), by inserting ",
3	agricultural processors," after "agricultural
4	producers";
5	(B) in paragraph (2)—
6	(i) by redesignating subparagraphs
7	(F) and (G) as subparagraphs (G) and
8	(H), respectively; and
9	(ii) by inserting after subparagraph
10	(E) the following:
11	"(F) carbon accounting assessments devel-
12	oped under subsection (d);";
13	(C) in paragraph (3)—
14	(i) by amending subparagraph (A) to
15	read as follows:
16	"(A) GRANTS.—Except as provided in sub-
17	paragraph (F), the amount of a grant under
18	this subsection shall not exceed 50 percent of
19	the cost of the activity carried out using funds
20	from the grant.";
21	(ii) in subparagraph (D), by striking
22	"subsection (f)" and inserting "subsection
23	(h)";
24	(iii) by adding at the end the fol-
25	lowing:

1	"(E) LOAN GUARANTEE.—The portion of a
2	loan that the Secretary may guarantee under
3	this section shall be—
4	"(i) for loans of \$1,000,000 or more,
5	80 percent of the principal amount of the
6	loan; and
7	"(ii) for loans of less than
8	\$1,000,000, 90 percent of the principal
9	amount of the loan.
10	"(F) UNDERSERVED PRODUCERS.—The
11	amount of a grant under this subsection to an
12	agricultural producer who is a beginning farmer
13	or rancher, a socially disadvantaged farmer or
14	rancher, or a veteran farmer or rancher (as
15	those terms are defined in section 2501(a) of
16	the Food, Agriculture, Conservation and Trade
17	Act of 1990 (7 U.S.C. 2279(a))) shall not ex-
18	ceed 75 percent of the cost of the activity fund-
19	ed by the grant.";
20	(D) in paragraph (4), by adding at the end
21	the following:
22	"(F) Pre-approved technologies.—In
23	order to streamline the adoption of renewable
24	energy systems and the adoption of energy effi-
25	ciency improvements, the Secretary shall—

1	"(i) beginning with fiscal year 2022,
2	develop a pre-approved technologies and
3	products list and streamlined application
4	process for projects utilizing pre-approved
5	products; and
6	"(ii) update such list every 2 fiscal
7	years."; and
8	(E) by adding at the end the following:
9	"(5) PRIORITY.—In making grants or loan
10	guarantees under this subsection, priority shall be
11	provided to proposed projects that utilize tech-
12	nologies—
13	"(A) with the lowest carbon footprint; or
14	"(B) that the Secretary determines would
15	result in the largest net decreases of carbon di-
16	oxide and carbon dioxide equivalent emissions
17	as determined through the carbon accounting
18	assessments under subsection (d).";
19	(4) in subsection (d)—
20	(A) in the subsection heading, by inserting
21	"AND TECHNICAL ASSISTANCE" after "Out-
22	REACH'';
23	(B) by striking "The Secretary shall" and
24	inserting "Using funds made available under
25	subsection $(h)(4)$, the Secretary shall'; and

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1	(C) by inserting "and technical assistance"
2	after "outreach";
3	(5) by redesignating subsections (d), (e), and
4	(f) as subsections (f), (g), and (h), respectively;
5	(6) by inserting after subsection (c) the fol-
6	lowing:
7	"(d) CARBON ACCOUNTING.—
8	"(1) IN GENERAL.—Not later than 2 years
9	after the date of the enactment of this subsection,
10	the Secretary shall work with the National Renew-
11	able Energy Laboratory established pursuant to sec-
12	tion 10 of the Solar Energy Research, Development,
13	and Demonstration Act of 1974 to develop carbon
14	accounting estimates for renewable energy systems
15	and energy efficiency upgrades (including a pre-ap-
16	proved technologies list and reserve fund tech-
17	nologies), supported through assistance provided
18	under this section.
19	"(2) PROGRAM GUIDANCE.—The results of the
20	carbon accounting assessments shall be used to
21	guide program actions as much as possible in order
22	to achieve the purpose specified in subsection (a).
23	"(e) Demonstration Practice.—
24	"(1) IN GENERAL.—The Secretary shall hold
25	regional demonstration projects that incentivize agri-

1	cultural producers to reduce the carbon footprint or
2	overall carbon equivalent emissions of such pro-
3	ducers to the largest extent possible through the use
4	of both energy efficiency improvements and renew-
5	able energy systems.
6	"(2) EXTENSION.—The Secretary shall promote
7	the results of the regional demonstration projects
8	carried out under paragraph (1)."; and
9	(7) in subsection (h) (as redesignated by para-
10	graph (5))—
11	(A) in paragraph (1), by striking subpara-
12	graphs (A) through (E) and inserting the fol-
13	lowing:
14	"(A) \$50,000,000 for each of fiscal years
15	2014 through 2021;
16	"(B) \$100,000,000 for fiscal year 2022;
17	"(C) \$200,000,000 for fiscal year 2023;
18	"(D) \$300,000,000 for fiscal year 2024;
19	and
20	((E) \$400,000,000 for fiscal year 2025
21	and each fiscal year thereafter.";
22	(B) in paragraph $(2)(B)$, by striking "be-
23	come available" and inserting "be used"; and
24	(C) by adding at the end the following:

1	"(4) Administrative expenses.—Not more
2	than 8 percent of the amount made available to
3	carry out this section for a fiscal year may be used
4	for administrative expenses incurred in carrying out
5	this section.
6	"(5) RESERVATION OF FUNDS.—Of the funds
7	made available to carry out this section for a fiscal
8	year, the Secretary may reserve—
9	"(A) not more than 10 percent for grants
10	under subsection (c) to support the adoption of
11	underutilized but proven, commercial tech-
12	nologies; and
13	"(B) not more than 5 percent to carry out
14	subsection (e) to hold regional demonstration
15	projects and promote the results of such
16	projects.".
17	SEC. 602. STUDY ON DUAL-USE RENEWABLE ENERGY SYS-
18	TEMS.
19	(a) IN GENERAL.—The Secretary of Agriculture shall
20	conduct a study on dual-use renewable energy systems,
21	
21	which shall include—
21	(1) an assessment on the compatibility of dif-

1	(A) the optimal height of and distance be-
2	tween solar panels for—
3	(i) livestock grazing; and
4	(ii) shade for livestock;
5	(B) manure management considerations;
6	(C) fencing requirements; and
7	(D) other animal handling considerations;
8	(2) an assessment of the compatibility of dif-
9	ferent crop types with different dual-use renewable
10	energy system designs, including—
11	(A) the optimal height of and distance be-
12	tween solar panels for—
13	(i) plant shading; and
14	(ii) farm equipment use;
15	(B) the impact on crop yield; and
16	(C) market opportunities to sell crops at a
17	premium price;
18	(3) a risk-benefit analysis of dual-use renewable
19	energy systems in different regions of the United
20	States, including a comparison between the total
21	greenhouse gas impact of dual-use renewable energy
22	systems and renewable energy systems that displace
23	agricultural production; and
24	(4) a 5-year plan for how the research and ex-
25	tension activities of the Department of Agriculture

could be used to better support dual-use renewable
 energy systems that do not displace agricultural pro duction.

4 (b) DEFINITION OF DUAL-USE RENEWABLE ENERGY
5 SYSTEMS.—In this section, the term "dual-use renewable
6 energy systems" means renewable energy production and
7 agricultural production, including crop or animal produc8 tion, occurring together on the same piece of land.

9 (c) REPORT.—Not later than 1 year after the date 10 of the enactment of this Act, the Secretary of Agriculture 11 shall submit to the Committee on Agriculture of the House 12 of Representatives and the Committee on Agriculture, Nu-13 trition, and Forestry of the Senate a written report con-14 taining the results of the study required by subsection (a).

15 SEC. 603. AGSTAR PROGRAM.

(a) IN GENERAL.—The Secretary of Agriculture (in
this section referred to as the "Secretary") shall maintain
a program, to be known as the AgSTAR program, that—

19 (1) supports anaerobic digestion in the agricul20 tural sector to reduce methane emissions from live21 stock waste;

(2) conducts outreach, education, and training
on anaerobic digestion of livestock waste;

24 (3) provides technical and regulatory assistance25 on anaerobic digestion of livestock waste to stake-

1	holders, including farmers and ranchers, on issues
2	including—
3	(A) permitting;
4	(B) codigestion of multiple organic wastes
5	in one digester; and
6	(C) interconnection to physically link a di-
7	gester to the electrical power grid;
8	(4) promotes centralized, multi-farm digesters
9	that use livestock waste from more than 1 farm or
10	ranch;
11	(5) collects and reports data on anaerobic diges-
12	tion of livestock waste; and
13	(6) maintains a database of on-farm anaerobic
14	digester projects in the United States.
15	(b) TRANSITION.—The Administrator of the Environ-
16	mental Protection Agency shall take such steps as may
17	be appropriate to provide for an orderly transition of the
18	activities carried out under the AgSTAR program of the
19	Environmental Protection Agency to the AgSTAR pro-
20	gram under this section.
21	(c) ADMINISTRATION.—The Secretary shall carry out
22	the program through the Natural Resources Conservation
23	Service, in coordination with the Administrator of the En-
24	vironmental Protection Agency and other Federal agencies

25 as necessary, and in partnership with the Regional Cli-

1	mate Hubs, cooperative extension services, and other
2	agencies of the Department of Agriculture.
3	(d) Limitations on Authorization of Appro-
4	PRIATIONS.—To carry out the AgSTAR program under
5	this section, there are authorized to be appropriated to
6	the Secretary not more than \$5,000,000 for each fiscal
7	year.
8	TITLE VII—FOOD LOSS AND
9	WASTE
10	Subtitle A—Food Date Labeling
11	SEC. 701. DEFINITIONS.
12	In this title:
13	(1) Administering secretaries.—The term
14	"administering Secretaries" means—
15	(A) the Secretary of Agriculture with re-
16	spect to any product that is under the Sec-
17	retary of Agriculture's jurisdiction and is—
18	(i) a poultry product, as defined in
19	section 4 of the Poultry Products Inspec-
20	tion Act (21 U.S.C. 453);
21	(ii) a meat food product, as defined in
22	section 1 of the Federal Meat Inspection
23	Act (21 U.S.C. 601); or

1	(iii) an egg product, as defined in sec-
2	tion 4 of the Egg Products Inspection Act
3	(21 U.S.C. 1033); and
4	(B) the Secretary of Health and Human
5	Services with respect to any product that is
6	under the Secretary of Health and Human
7	Services' jurisdiction and is a food (as defined
8	in section 201 of the Federal Food, Drug, and
9	Cosmetic Act (21 U.S.C. 321)).
10	(2) DISCARD DATE.—The term "discard date"
11	means a date voluntarily printed on food packaging,
12	which signifies the end of the estimated period of
13	shelf life under any stated storage conditions, after
14	which the food labeler advises the product not be
15	consumed.
16	(3) FOOD LABELER.—The term "food labeler"
17	means the producer, manufacturer, distributor, or
18	retailer that places a date label on food packaging
19	of a product.
20	(4) QUALITY DATE.—The term "quality date"
21	means a date voluntarily printed on food packaging
22	that is intended to communicate to consumers the
23	date after which—
24	(A) the quality of the product may begin
25	to deteriorate; but

1 (B) the product remains apparently whole-2 some food (as defined in subsection (b)(2) of 3 section 22 of the Child Nutrition Act of 1966 4 (42 U.S.C. 1791(b)(2)); also known as the Bill 5 Emerson Good Samaritan Food Donation Act). 6 SEC. 702. QUALITY DATES AND DISCARD DATES. 7 (a) QUALITY DATES.— 8 (1) IN GENERAL.—If a food labeler includes a 9 quality date on food packaging, the label shall use 10 the uniform quality date label phrase under para-11 graph (2). 12 (2) UNIFORM PHRASE.—The uniform quality 13 date label phrase under this paragraph shall be 14 "BEST If Used By" or, if permissible under subsection (c)(3), the standard abbreviation of "BB", 15 16 unless and until the administering Secretaries, act-17 ing jointly, specify through rulemaking another uni-18 form phrase to be used for purposes of complying 19 with paragraph (1). 20 (3) OPTION OF THE LABELER.—The decisions 21 on whether to include a quality date on food pack-22 aging and which foods should be so labeled shall be 23 at the discretion of the food labeler.

24 (b) DISCARD DATES.—

(1) IN GENERAL.—If a food labeler includes a
 discard date on food packaging, the label shall use
 the uniform discard date label phrase under para graph (2).

(2) UNIFORM PHRASE.—The uniform discard 5 date label phrase under this paragraph shall be 6 7 "USE By" or, if permissible under subsection 8 (c)(3), the standard abbreviation of "UB", unless 9 and until the administering Secretaries, acting joint-10 ly, specify through rulemaking another uniform 11 phrase to be used for purposes of complying with 12 paragraph (1).

(3) OPTION OF THE LABELER.—The decisions
on whether to include a discard date on food packaging and which foods should be so labeled shall be
at the discretion of the food labeler.

17 (c) QUALITY DATE AND DISCARD DATE LABEL-18 ING.—

19 (1) IN GENERAL.—The quality date or discard
20 date, as applicable, and immediately adjacent uni21 form quality date label phrase or discard date label
22 phrase—

23 (A) shall be—
24 (i) in single easy-to-read type style;
25 and

1	(ii) located in a conspicuous place on
2	the package of the food; and
3	(B) may be on the label or, at the discre-
4	tion of the food labeler, elsewhere on the pack-
5	age.
6	(2) DATE FORMAT.—Each quality date and dis-
7	card date shall be stated in terms of day and month
8	and, as appropriate, year.
9	(3) ABBREVIATIONS.—A food labeler may use a
10	standard abbreviation of "BB" and "UB" for the
11	quality date and discard date, respectively, only if
12	the food packaging is too small to include the uni-
13	form phrase described in subsection $(a)(2)$ or $(b)(2)$,
14	as applicable.
15	(4) FREEZE BY.—A food labeler may add "or
16	Freeze By" following a quality date or discard date
17	uniform phrase.
18	(d) INFANT FORMULA.—This Act and the amend-
19	ments made by this Act—
20	(1) do not apply with respect to infant formula
21	(as defined in section $201(z)$ of the Federal Food,
22	Drug, and Cosmetic Act (21 U.S.C. 321(z))); and
23	(2) shall not be construed to affect the require-
24	ments pertaining to infant formula under section
25	412 of the Federal Food, Drug, and Cosmetic Act

(21 U.S.C. 350a) and other applicable provisions of
 law.

3 (e) EDUCATION.—Not later than 1 year after the 4 date of enactment of this Act, the administering Secre-5 taries, acting jointly, shall provide consumer education 6 and outreach on the meaning of quality date and discard 7 date food labels.

8 (f) RULE OF CONSTRUCTION; PREEMPTION.—

9 (1) RULE OF CONSTRUCTION.—Nothing in this 10 Act or the amendments made by this Act shall be 11 construed to prohibit any State or political subdivi-12 sion of a State from establishing or continuing in ef-13 fect any requirement that prohibits the sale or dona-14 tion of foods based on passage of the discard date. 15 (2) PREEMPTION.—No State or political sub-16 division of a State may establish or continue in ef-17 fect any requirement that—

(A) relates to the inclusion in food labeling
of a quality date or a discard date that is different from or in addition to, or that is otherwise not identical with, the requirements of this
Act and the amendments made by this Act; or
(B) prohibits the sale or donation of foods
based on passage of the quality date.

1 (3) ENFORCEMENT.—The administering Secre-2 taries, acting jointly and in coordination with the 3 Federal Trade Commission, shall ensure that the 4 uniform quality date label phrase and uniform dis-5 card date label phrase are standardized across all 6 food products.

7 (4) SAVINGS.—Notwithstanding paragraph (2), 8 nothing in this Act, nor any amendment made by 9 this Act, nor any standard or requirement imposed 10 pursuant to this Act, shall be construed to preempt, 11 displace, or supplant any State or Federal common 12 law rights or any State or Federal statute creating 13 a remedy for civil relief, including those for civil 14 damage, or a penalty for criminal conduct.

(g) TIME TEMPERATURE INDICATOR LABELS.—
16 Nothing in this Act or the amendments made by this Act
17 shall be construed to prohibit or restrict the use of time18 temperature indicator labels or similar technology that is
19 in addition to or in lieu of any uniform quality date label
20 phrase under subsection (a)(2) or uniform discard date
21 label phrase under subsection (b)(2).

22 SEC. 703. MISBRANDING.

(a) FDA VIOLATIONS.—Section 403 of the Federal
Food, Drug, and Cosmetic Act (21 U.S.C. 343) is amended by adding at the end the following:

1	"(z) If it is food and its labeling is in violation of
2	section 702 of the Agriculture Resilience Act.".
3	(b) POULTRY PRODUCTS.—Section 4(h) of the Poul-
4	try Products Inspection Act (21 U.S.C. 453(h)) is amend-
5	ed—
6	(1) in paragraph (11), by striking "or" at the
7	end;
8	(2) in paragraph (12) , by striking the period at
9	the end and inserting "; or"; and
10	(3) by adding at the end the following:
11	"(13) if its labeling is in violation of section
12	702 of the Agriculture Resilience Act.".
13	(c) Meat Products.—Section 1(n) of the Federal
14	Meat Inspection Act (21 U.S.C. 601(n)) is amended—
15	(1) in paragraph (11), by striking "or" at the
16	end;
17	(2) in paragraph (12) , by striking the period at
18	the end and inserting "; or"; and
19	(3) by adding at the end the following:
20	"(13) if its labeling is in violation of section
21	702 of the Agriculture Resilience Act.".
22	(d) EGG PRODUCTS.—Section 7(b) of the Egg Prod-
23	ucts Inspection Act (21 U.S.C. 1036(b)) is amended in
24	the first sentence by adding before the period at the end

"or if its labeling is in violation of section 702 of the Agri culture Resilience Act".

3 SEC. 704. REGULATIONS.

4 Not later than 2 years after the date of enactment
5 of this Act, the Secretaries, acting jointly, shall promul6 gate final regulations for carrying out the provisions of
7 this Act and the amendments made by this Act.

8 SEC. 705. DELAYED APPLICABILITY.

9 This Act and the amendments made by this Act shall 10 apply only with respect to food products that are labeled 11 on or after the date that is 2 years after the date of pro-12 mulgation of final regulations under section 704.

13 Subtitle B—Other Provisions

14 SEC. 711. COMPOSTING AS CONSERVATION PRACTICE.

(a) DEFINITIONS.—Section 1201(a) of the Food Security Act of 1985 (16 U.S.C. 3801(a)) is amended—

(1) by redesignating paragraphs (3) through
(27) as paragraphs (4) through (28), respectively;
and

20 (2) by inserting after paragraph (2) the fol-21 lowing:

22 "(3) COMPOSTING PRACTICE.—The term
23 "composting practice' means—

24 "(A) an activity (including an activity that25 does not require the use of a composting facil-

1	ity) to produce compost from organic waste
2	that is—
3	"(i) generated on a farm; or
4	"(ii) brought to a farm from the near-
5	by community; and
6	"(B) the use of compost on a farm to im-
7	prove water retention and soil health, subject to
8	the condition that such a use shall be in compli-
9	ance with applicable Federal, State, and local
10	laws.".
11	(b) Conservation Stewardship Program.—Sec-
12	tion $1240I(2)(B)(i)$ of the Food Security Act of 1985 (16
13	U.S.C. 3839aa–21(2)(B)(i)) is amended by inserting "and
14	composting practices" after "agriculture drainage man-
15	agement systems".
16	(c) Environmental Quality Incentives Pro-
17	GRAM.—Section 1240A(6)(A)(ii) of the Food Security Act
18	of 1985 (16 U.S.C. 3839aa–1(6)(A)(ii)) is amended by in-
19	serting ", including composting practices" before the semi-
20	colon at the end.
21	(d) Delivery of Technical Assistance.—Section
22	1242(h) of the Food Security Act of 1985 (16 U.S.C.
23	3842(h)) is amended by adding at the end the following:
24	"(5) Development of composting practice
25	STANDARD.—In addition to conducting a review of

1 any composting facilities practice standard under 2 this subsection, the Secretary shall develop and im-3 plement a composting practice standard.". 4 SEC. 712. AMENDMENTS TO FEDERAL FOOD DONATION 5 ACT. 6 (a) PURPOSE.—Section 2 of the Federal Food Dona-7 tion Act of 2008 (Public Law 110-247; 42 U.S.C. 1792 note) is amended by striking "encourage" and inserting 8 "require". 9 10 (b) DEFINITIONS.—Section 3 of the Federal Food 11 Donation Act of 2008 (Public Law 110–247; 42 U.S.C. 12 1792 note) is amended— 13 (1) by redesignating paragraphs (3) and (4) as 14 paragraphs (4) and (5), respectively; and 15 (2) by inserting after paragraph (2) the fol-16 lowing: 17 "(3) EXECUTIVE AGENCY.—The term 'executive 18 agency' has the meaning given the term in section 19 133 of title 41, United States Code.". 20 (c) REPORT ON FOOD WASTE BY CERTAIN FEDERAL 21 CONTRACTORS.—Section 4 of the Federal Food Donation 22 Act of 2008 (Public Law 110–247; 42 U.S.C. 1792) is 23 amended-24 (1) by amending subsection (a) to read as fol-25 lows:

1 "(a) IN GENERAL.—

2	"(1) REQUIREMENT.—Not later than 180 days
3	after the date of enactment of the Act, the Federal
4	Acquisition Regulation issued in accordance with
5	section 1121 of title 41, United States Code, shall
6	be revised to provide that, except as provided in
7	paragraph (2), all contracts of more than $$10,000$
8	for the provision, service, or sale of food in the
9	United States, or for the lease or rental of Federal
10	property to a private entity for events at which food
11	is provided in the United States, shall include a
12	clause that—
13	"(A) requires the donation of excess, ap-
14	parently wholesome food to nonprofit organiza-
15	tions that provide assistance to food-insecure
16	people in the United States;
17	"(B) states the terms and conditions de-
18	scribed in subsection (b); and
19	"(C) requires the annual submission, in a
20	form and manner specified by the executive
21	agency awarding the contract, of the report de-
22	scribed in subsection (d).
23	"(2) EXCEPTION.—Paragraph (1) shall not
24	apply to a contract with an executive agency that
25	has issued a regulation in effect on the date of en-

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1	actment of the Act that prohibits a donation de-
2	scribed in paragraph $(1)(A)$."; and
3	(2) by adding at the end the following new sub-
4	sections:
5	"(c) Application to Congress.—
6	"(1) CONTRACTS.—This Act shall apply to the
7	House of Representatives and to contracts entered
8	into by the House of Representatives, and to the
9	Senate and to contracts entered into by the Senate,
10	in the same manner and to the same extent as this
11	Act applies to an executive agency and to contracts
12	entered into by an executive agency.
13	"(2) Administration.—For purposes of car-
14	rying out paragraph (1)—
15	"(A) the Chief Administrative Officer of
16	the House of Representatives shall be consid-
17	ered to be the head of the House of Representa-
18	tives; and
19	"(B) the Secretary of the Senate shall be
20	considered to be the head of the Senate.
21	"(d) Data; Reports.—
22	"(1) Report described.—The report de-
23	scribed in this subsection, with respect to a contract
24	described in subsection (a) entered into by a con-
25	tractor and an executive agency, is a report from the

1	contractor to the executive agency that describes, for
2	each month of performance of the contract during
3	the year covered by the report, the weight of appar-
4	ently wholesome food that was, pursuant to the con-
5	tract, disposed of in each of the following manners:
6	"(A) DONATION.—Donation by the con-
7	tractor pursuant to this Act (organized by the
8	name of the organization receiving such food).
9	"(B) Compositing.—Compositing or other
10	recycling by the contractor.
11	"(C) DISCARDING.—Discarding by the
12	contractor (organized by the reason such food
13	was so discarded).
14	"(2) Reports to omb.—Not later than 30
15	days after the date that an executive agency receives
16	a report pursuant to paragraph $(1)(C)$, the agency
17	shall submit a copy of the report to the Director of
18	the Office of Management and Budget.
19	"(3) Reports to congress.—The Director of
20	the Office of Management and Budget shall submit
21	to Congress an annual report aggregating the infor-
22	mation in the reports received pursuant to para-
23	graph (2) during the year covered by the report.".

1 (d) AUTHORIZATION OF APPROPRIATIONS.—The 2 Federal Food Donation Act of 2008 (42 U.S.C. 1792) is amended by adding at the end the following: 3 4 **"SEC. 5. AUTHORIZATION OF APPROPRIATIONS.** 5 "There is authorized to be appropriated to the Secretary of Agriculture to carry out this Act \$10,000,000 6 7 for fiscal year 2022 and each fiscal year thereafter.". 8 SEC. 713. GRANTS FOR COMPOSTING AND ANAEROBIC DI-9 **GESTION** FOOD WASTE-TO-ENERGY 10 **PROJECTS.** 11 (a) IN GENERAL.—Subtitle G of the Solid Waste Dis-12 posal Act (42 U.S.C. 6971 et seq.) is amended by adding 13 at the end the following: 14 "SEC. 7011. GRANTS FOR COMPOSTING AND ANAEROBIC DI-15 **GESTION** FOOD WASTE-TO-ENERGY 16 **PROJECTS.** 17 "(a) GRANTS.—The Administrator shall establish a 18 grant program to award grants to States eligible to receive 19 the grants under subsection (b)(1) to construct large-scale composting or anaerobic digestion food waste-to-energy 20 21 projects. 22 "(b) ELIGIBLE STATES.— 23 "(1) ELIGIBILITY.—In order to be eligible to 24 receive a grant under this section, a State shall—

1	"(A) have in effect a plan to limit the
2	quantity of food waste that may be disposed of
3	in landfills in the State; and
4	"(B) provide to the Administrator—
5	"(i) a written commitment that the
6	State has read and agrees to comply with
7	the Food Recovery Hierarchy of the Envi-
8	ronmental Protection Agency, particularly
9	as applied to apparently wholesome food
10	(as defined in section 22(b) of the Child
11	Nutrition Act of 1966 (42 U.S.C.
12	1791(b))) that may be provided to or re-
13	ceived by the State; and
14	"(ii) a written end-product recycling
15	plan that provides for the beneficial use of
16	the material resulting from any anaerobic
17	digestion food waste-to-energy operation
18	with respect to which the loan or grant is
19	made, in a manner that meets all applica-
20	ble Federal, State, and local laws that pro-
21	tect human health and the environment.
22	"(2) LIMITATION.—A grant under subsection
23	(a) may not be used for an anaerobic digester that
24	uses solely manure as undigested biomass.

"(3) PREFERENCE.—The Administrator shall
 give preference to grants under subsection (a) for
 anaerobic digesters that use primarily nonedible
 food, crop waste, or nonedible food and crop waste
 as undigested biomass.

6 "(c) AUTHORIZATION OF APPROPRIATIONS.—There
7 is authorized to be appropriated to carry out this section
8 \$100,000,000 for each fiscal year.

9 "(d) STATE DEFINED.—In this section, the term
10 'State' means each State of the United States, the District
11 of Columbia, each territory or possession of the United
12 States, and each federally recognized Indian Tribe.".

(b) CLERICAL AMENDMENT.—The table of contents
for the Solid Waste Disposal Act (42 U.S.C. 6901 et seq.)
is amended by inserting after the item relating to section
7010 the following:

"Sec. 7011. Grants for composting and anaerobic digestion food waste-to-energy projects.".

17 SEC. 714. SCHOOL FOOD WASTE REDUCTION GRANT PRO-

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GRAM.

(a) IN GENERAL.—Section 18 of the Richard B. Russell National School Lunch Act (42 U.S.C. 1769) is
amended by inserting before subsection (b) the following:
"(a) SCHOOL FOOD WASTE REDUCTION GRANT PROGRAM.—

24 "(1) GRANT PROGRAM ESTABLISHED.—

1	"(A) IN GENERAL.—The Secretary shall
2	carry out a program to make grants, on a com-
3	petitive basis, to eligible local educational agen-
4	cies to carry out food waste measurement and
5	reporting, prevention, education, and reduction
6	projects.
7	"(B) REGIONAL BALANCE.—In awarding
8	grants under this subsection, the Secretary
9	shall, to the maximum extent practicable, en-
10	sure that—
11	"(i) a grant is awarded to an eligible
12	local educational agency in each region
13	served by the Administrator of the Food
14	and Nutrition Service; and
15	"(ii) equitable treatment of rural,
16	urban, and tribal communities.
17	"(2) Application.—To be eligible to receive a
18	grant under this subsection, an eligible local edu-
19	cational agency shall submit an application to the
20	Secretary at such time, in such manner, and con-
21	taining such information as the Secretary may re-
22	quire.
23	"(3) PRIORITY.—In making grants under this
24	subsection the Secretary shall give priority to an eli-
25	gible local educational agency that demonstrates in

1	the application under paragraph (2) that such eligi-
2	ble local educational agency will use the grant to—
3	"(A) carry out experiential education ac-
4	tivities that encourage children enrolled in such
5	eligible local educational agency to participate
6	in food waste measurement and education;
7	"(B) prioritize the best use of food in ac-
8	cordance with the Food Recovery Hierarchy
9	published by the Administrator of the Environ-
10	mental Protection Agency;
11	"(C) with respect to food waste prevention
12	and reduction, collaborate with other eligible
13	local educational agencies, tribes, nongovern-
14	mental and community-based organizations,
15	and other community partners;
16	"(D) evaluate the activities described in
17	subparagraphs (A) through (C) and make eval-
18	uation plans; and
19	"(E) establish a food waste measurement,
20	prevention, and reduction project with long-
21	term sustainability.
22	"(4) Federal share.—
23	"(A) IN GENERAL.—The Federal share of
24	a food waste measurement, prevention, and re-
25	duction project funded through a grant awarded

1	under this subsection shall not exceed 75 per-
2	cent of the total cost of such food waste reduc-
3	tion project.
4	"(B) FEDERAL MATCHING.—As a condi-
5	tion of receiving a grant under this subsection,
6	an eligible local educational agency shall provide
7	matching funds in the form of cash or in-kind
8	contributions, including facilities, equipment, or
9	services provided by State and local govern-
10	ments, nonprofit organizations, and private
11	sources.
12	"(5) USE OF FUNDS.—An eligible local edu-
13	cational agency that receives a grant under this sec-
14	tion shall use funds under such grant to carry out
15	at least one of the following:
16	"(A) Planning a food waste measurement,
17	prevention, and reduction project.
18	"(B) Carrying out activities under such a
19	project.
20	"(C) Providing training to support such a
21	project.
22	"(D) Purchasing equipment to support
23	such a project.

	"(E) Offering food waste education to stu-
	dents enrolled in such eligible local educational
	agency.
	"(6) EVALUATION.—
	"(A) AGREEMENT.—As a condition of re-
	ceiving a grant under this subsection, each eli-
	gible local educational agency shall agree to co-
	operate in an evaluation by the Secretary of the
	project carried out using grant funds.
	"(B) PERIODIC EVALUATION.—Not later
	than 2 years after the date of the enactment of
	this paragraph and every 2 years thereafter, the
	Secretary shall carry out an evaluation of the
	grants made under this section that includes—
	"(i) the amount of Federal funds used
	to carry out such grants; and
	"(ii) an evaluation of the outcomes of
	the projects carried out pursuant to such
	grants.
	"(7) DEFINITION OF ELIGIBLE LOCAL EDU-
CA'	FIONAL AGENCY.—In this subsection, the term 'el-
igil	ble local educational agency' means a local edu-
cat	ional agency that participates in the school lunch
pro	gram under this Act or the school breakfast pro-

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1	gram established under section 4 of the Child Nutri-
2	tion Act of 1966 (42 U.S.C. 1773).".
3	(b) TECHNICAL ASSISTANCE.—Section 21(b) of the
4	Richard B. Russell National School Lunch Act (42 U.S.C.
5	1769b–1(b)) is amended—
6	(1) in paragraph (2), by striking "and" at the
7	end;
8	(2) in paragraph (3), by striking the period at
9	the end and inserting "; and"; and
10	(3) by adding at the end the following:
11	"(4) food waste measurement, prevention, and
12	reduction.".

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