

1 “(A) data collection for climate-specific ag-
2 ricultural research, extension, education, and
3 economics; and

4 “(B) agricultural climate research priority
5 areas and scientific agendas for measuring,
6 monitoring, reporting, and verification of cli-
7 mate and environmental outcomes that in-
8 clude—

9 “(i) carbon removal, carbon sequestra-
10 tion, and greenhouse gas emission related
11 to agriculture;

12 “(ii) soil health;

13 “(iii) livestock methane production;

14 “(iv) wetland management; and

15 “(v) climate smart agriculture prac-
16 tices;

17 “(2) identify gaps in current agriculture climate
18 research and develop a biennial national research
19 agenda and annual scientific recommendations to
20 address areas of critical need for publicly funded ag-
21 riculture climate research;

22 “(3)(A) every 5 years, evaluate the results and
23 effectiveness of climate-specific agricultural research,
24 extension, education, and economics with respect to

1 the policies and priorities described in paragraph
2 (1); and

3 “(B) make recommendations to the Sec-
4 retary based on such evaluation;

5 “(4) review and make programmatic and pri-
6 ority research recommendations to the Under Sec-
7 retary for Research, Education, and Economics on
8 the climate-specific agricultural research, extension,
9 education, and economics described in paragraph
10 (3)(A);

11 “(5) review and make recommendations on the
12 mechanisms of the Department of Agriculture for
13 technology assessment, which shall be conducted by
14 qualified professionals, for the purposes of—

15 “(A) performance measurement and eval-
16 uation of the implementation by the Secretary
17 of the strategic plan of the Department of Agri-
18 culture required under section 306 of title 5,
19 United States Code;

20 “(B) implementation of climate-specific na-
21 tional research policies and priorities that are
22 consistent with the purposes described in sec-
23 tion 1402; and

24 “(C) the development of mechanisms for
25 the assessment of emerging public and private

1 climate-specific agricultural research and tech-
2 nology transfer initiatives;

3 “(6) every 5 years, establish and update stand-
4 ardized data collection, management, and dissemina-
5 tion protocols for—

6 “(A) agriculture climate research programs
7 of the Department of Agriculture; and

8 “(B) initiatives of the Rural Climate Alli-
9 ance Network established under section
10 1419(c);

11 “(7)(A) consult with industry groups, producer
12 networks, advocacy organizations, scientific societies,
13 and higher education associations on climate-specific
14 agricultural research, extension, education, and eco-
15 nomics; and

16 “(B) make recommendations to the Sec-
17 retary based on such consultation;

18 “(8) consult with, and receive communications
19 from, other Federal departments and agencies on
20 climate plans and priorities relating to agriculture
21 and forestry for the purpose of advising the Sec-
22 retary of opportunities for collaboration, coordina-
23 tion, and avoiding duplication;

1 “(9)(A) review climate research technology
2 transfer and new scientific practices for climate miti-
3 gation and adaptation; and

4 “(B) make recommendations to the Rural
5 Climate Alliance Network established under sec-
6 tion 1419(c) based on such review; and

7 “(10) review and suggest annual budget rec-
8 ommendations to support a climate research agenda
9 for the Secretary to propose in each annual budget
10 of the Department of Agriculture.

11 “(c) MEMBERSHIP.—

12 “(1) NUMBER AND APPOINTMENT.—

13 “(A) IN GENERAL.—The Committee shall
14 be composed of 18 members as follows:

15 “(i) The Secretary.

16 “(ii) The Chief Scientist.

17 “(iii) The Director of the Global Cli-
18 mate Change Program established under
19 section 2402 of the Food, Agriculture,
20 Conservation, and Trade Act of 1990 (7
21 U.S.C. 6701).

22 “(iv) The Under Secretary for Nat-
23 ural Resources and Environment.

24 “(v) The Under Secretary for Farm
25 Production and Conservation.

1 “(vi) The Under Secretary for Mar-
2 keting and Regulatory Programs.

3 “(vii) The Executive Director of the
4 Foundation for Food and Agriculture Re-
5 search.

6 “(viii) The Administrator of the Agri-
7 cultural Research Service.

8 “(ix) The Director of the National In-
9 stitute of Food and Agriculture.

10 “(x) The Administrator of the Eco-
11 nomic Research Service.

12 “(xi) The Administrator of the Na-
13 tional Agricultural Statistics Service.

14 “(xii) The Director of the Office of
15 Energy and Environmental Policy.

16 “(xiii) The Deputy Chief for Research
17 and Development of the Forest Service.

18 “(xiv) 1 member of the National
19 Academy of Sciences, to be appointed by
20 the Secretary.

21 “(xv) 4 members to be appointed by
22 the Secretary from nominations submitted
23 by the nominating entities described in
24 subparagraph (B).

1 “(B) NOMINATING ENTITIES DE-
2 SCRIBED.—The nominating entities described in
3 this subparagraph are organizations, associa-
4 tions, societies, cooperative extensions, State
5 agricultural experiment stations, technical as-
6 sistance provider organizations, councils, fed-
7 erations, producer groups, agriculture manufac-
8 turing entities, restaurants, the food service in-
9 dustry, the agriculture technology industry, en-
10 vironmental organizations, forestry organiza-
11 tions, nonprofit organizations, and companies
12 or other entities as determined appropriate by
13 the Secretary.

14 “(2) TERMS.—

15 “(A) IN GENERAL.—Except as provided in
16 subparagraph (B), members of the Committee
17 appointed under clause (xiv) or (xv) of para-
18 graph (1)(A) shall be appointed for a term of
19 not more than 6 years.

20 “(B) TERMS OF INITIAL APPOINTEES.—
21 The initial members of the Committee ap-
22 pointed under clause (xiv) or (xv) of paragraph
23 (1)(A) shall be appointed for the following
24 terms:

1 “(i) 2 shall be appointed for a term of
2 2 years, which may be extended by the
3 Secretary for an additional 6 years.

4 “(ii) 2 shall be appointed for a term
5 of 4 years, which may be extended by the
6 Secretary for an additional 6 years.

7 “(iii) 1 shall be appointed for a term
8 of 6 years.

9 “(C) LIMITATION.—Except as provided in
10 subparagraph (B), members of the Committee
11 appointed under clause (xiv) or (xv) of para-
12 graph (1)(A) may not serve consecutive terms
13 on the Committee.

14 “(D) VACANCIES.—Any vacancy on the
15 Committee—

16 “(i) shall not affect the duties of the
17 Committee under this section; and

18 “(ii) shall be filled in the same man-
19 ner as the original appointment.

20 “(3) CHAIRPERSON, VICE CHAIRPERSON, AND
21 EXECUTIVE SUBCOMMITTEE.—

22 “(A) ELECTION.—At the first meeting of
23 the Committee each calendar year, the Com-
24 mittee shall elect from among the members of
25 the Committee—

1 “(i) a chairperson;

2 “(ii) a vice chairperson; and

3 “(iii) 7 members to serve on the execu-
4 tive subcommittee established under sub-
5 paragraph (B).

6 “(B) EXECUTIVE SUBCOMMITTEE.—The
7 Committee shall establish an executive sub-
8 committee charged with the responsibility of
9 working with the Secretary and officers and
10 employees of the Department of Agriculture to
11 summarize and disseminate the recommenda-
12 tions of the Committee.

13 “(d) CONSULTATION AND RECOMMENDATIONS.—

14 “(1) DUTIES OF COMMITTEE.—In fulfilling the
15 duties of the Committee under this section, the
16 Committee shall consult with appropriate agencies of
17 the Department of Agriculture.

18 “(2) DUTIES OF SECRETARY.—After receiving
19 recommendations from the Committee pursuant to
20 any provision in this section, the Secretary shall pro-
21 vide a written response to the Committee regarding
22 the manner and extent to which the Secretary will
23 implement such recommendations.

24 “(e) COMPENSATION AND PERSONNEL.—

1 “(1) APPOINTMENT OF EXECUTIVE DIRECTOR
2 AND STAFF.—To assist the Committee in the per-
3 formance of the duties of the Committee, the Sec-
4 retary may appoint, without regard to the civil serv-
5 ice laws, and after consultation with the chairperson
6 of the Committee—

7 “(A) a full-time executive director, who
8 shall—

9 “(i) perform such duties as the chair-
10 person of the Committee may direct; and

11 “(ii) receive compensation at a rate
12 not to exceed the rate payable for GS–15
13 of the General Schedule established by sec-
14 tion 5332 of title 5, United States Code;
15 and

16 “(B) a professional staff of not more than
17 3 full-time employees qualified in climate-spe-
18 cific agricultural research, extension, education,
19 and economics, of which 1 shall serve as the ex-
20 ecutive secretary of the Committee.

21 “(2) ADDITIONAL ASSISTANCE AND PER-
22 SONNEL.—The Secretary shall detail, on a reimburs-
23 able basis, personnel of the Department of Agri-
24 culture to the Committee as necessary to assist the

1 Commission in carrying out its duties under this sec-
2 tion.

3 “(3) COMPENSATION OF MEMBERS.—

4 “(A) IN GENERAL.—Except as provided in
5 subparagraph (B), members of the Committee
6 shall serve without pay for each day during
7 which such members are engaged in the actual
8 performance of duties vested in the Committee.

9 “(B) PROHIBITION OF COMPENSATION OF
10 FEDERAL EMPLOYEES.—Members of the Com-
11 mittee who are full-time officers or employees of
12 the United States may not receive additional
13 pay, allowances, or benefits by reason of their
14 service on the Committee.

15 “(C) TRAVEL EXPENSES.—A member of
16 the Committee shall be allowed travel expenses,
17 including per diem in lieu of subsistence, at
18 rates authorized for employees of agencies
19 under subchapter I of chapter 57 of title 5,
20 United States Code, while away from the home
21 or regular place of business of the member in
22 the performance of services for the Committee.

23 “(f) FEDERAL ADVISORY COMMITTEE ACT CHAR-
24 TER.—The Committee shall be deemed to have filed a
25 charter for the purpose of section 1008(c) of title 5,

1 United States Code (commonly known as the ‘Federal Ad-
2 visory Committee Act’).

3 “(g) TERMINATION.—Section 1013(a)(2) of title 5,
4 United States Code, (relating to the termination of advi-
5 sory committees) shall not apply to the Committee.

6 “(h) COMMITTEE EXPENSES NOT COUNTED TO-
7 WARD GENERAL LIMITATIONS.—The expenses of the
8 Committee shall not be counted toward any general limita-
9 tion on the expenses of advisory committees, panels, com-
10 missions, and task forces of the Department of Agri-
11 culture contained in any Act making appropriations for
12 the Department of Agriculture, whether enacted before,
13 on, or after the date of enactment of this section, unless
14 the appropriation Act specifically refers to this subsection
15 and specifically includes the Committee within the general
16 limitation.”.

17 (b) RURAL CLIMATE ALLIANCE NETWORK.—Subtitle
18 C of title XIV of the National Agricultural Research, Ex-
19 tension, and Teaching Policy Act of 1977 is amended by
20 inserting after section 1418 (7 U.S.C. 3153) the following:
21 **“SEC. 1419. RURAL CLIMATE ALLIANCE NETWORK.**

22 “(a) DEFINITION OF AGRICULTURAL PRODUCER.—
23 In this section, the term ‘agricultural producer’ means an
24 individual who is engaged in farming, ranching, forestry,
25 aquaculture, or another occupation relating to agriculture.

1 “(b) PURPOSES.—The purposes of this section are—

2 “(1) to provide science-based climate adaptation
3 and mitigation assistance and training programs to
4 rural communities and agricultural producers;

5 “(2) to coordinate the transfer of new tech-
6 nology and research relating to climate change that
7 will impact behavioral and management changes to
8 agricultural systems, including to—

9 “(A) individuals who work in the field of
10 climate science, including agricultural pro-
11 ducers; and

12 “(B) individuals, organizations, and other
13 entities with an established history of working
14 with agricultural producers;

15 “(3) to improve agriculture research collabora-
16 tion, data collection, and partnerships and the shar-
17 ing of information about new scientific advance-
18 ments in climate research, as well as inform future
19 research efforts; and

20 “(4) to facilitate the exchange of regional agri-
21 culture climate data and research through a network
22 of partners.

23 “(c) RURAL CLIMATE ALLIANCE NETWORK.—

24 “(1) IN GENERAL.—The Secretary shall estab-
25 lish and administer through the Climate Hubs a net-

1 work, to be known as the ‘Rural Climate Alliance
2 Network’ (referred to in this subsection as the ‘Net-
3 work’)—

4 “(A) that serves as a coordination hub for
5 the provision of agriculture climate research,
6 climate data, extension, and technical assistance
7 for agricultural producers, the food and agricul-
8 tural industry, nonprofit organizations relating
9 to food and agriculture, and researchers relat-
10 ing to food and agriculture to address the ef-
11 fects of climate change; and

12 “(B) to improve—

13 “(i) responses to climate disasters
14 through data collection and information
15 sharing;

16 “(ii) communication of climate risks;

17 “(iii) accessible education and tech-
18 nical transfer of climate-related, regionally
19 relevant agricultural data and research to
20 agricultural producers in all regionally ap-
21 propriate languages;

22 “(iv) tools and networks that deliver
23 information to prevent damage from ex-
24 treme weather events, pest and disease

1 outbreaks, and other related climate
2 change impacts;

3 “(v) communication between agricul-
4 tural producers and the agricultural re-
5 search community to ensure that agricul-
6 tural research considers the perspectives of
7 agricultural producers, such as changes in
8 yield and fluctuating costs of inputs;

9 “(vi) coordination between other Fed-
10 eral agencies, as the Secretary determines
11 appropriate; and

12 “(vii) coordination between entities in
13 the private sector, such as participants in
14 the agricultural and food supply chains
15 that work with agricultural producers, re-
16 lating to climate data, adaptation, mitiga-
17 tion, and response.

18 “(2) COMPOSITION.—The Network shall in-
19 clude—

20 “(A) entities, and employees of entities,
21 that conduct research, exchange data, provide
22 monitoring and verification services, or provide
23 technical assistance relating to food and agri-
24 culture, including—

25 “(i) colleges and universities;

- 1 “(ii) State cooperative institutions;
- 2 “(iii) State extension services;
- 3 “(iv) State departments of agri-
4 culture;
- 5 “(v) State agricultural experiment
6 stations;
- 7 “(vi) Indian Tribes (as defined in sec-
8 tion 4 of the Indian Self-Determination
9 and Education Assistance Act (25 U.S.C.
10 5304));
- 11 “(vii) qualified nonprofit organiza-
12 tions, as determined by the Secretary;
- 13 “(viii) qualified private businesses, as
14 determined by the Secretary;
- 15 “(ix) agricultural producers, producer
16 groups, or producer organizations, includ-
17 ing agricultural trade associations and re-
18 search and promotion boards (commonly
19 known as ‘checkoffs’);
- 20 “(x) agencies and offices within the
21 Department of Agriculture; and
- 22 “(xi) any other technical assistance
23 provider, research entity, or data analytics
24 entity that the Secretary determines to be
25 qualified to participate in the Network;

1 “(B) climate resilience-related research
2 networks within the Department of Agriculture,
3 including—

4 “(i) the Long-Term Agroecosystem
5 Research Network;

6 “(ii) the Extension Disaster Edu-
7 cation Network;

8 “(iii) the Eastern Forest Environ-
9 mental Threat Assessment Center;

10 “(iv) the Western Wildland Environ-
11 mental Threat Assessment Center;

12 “(v) the Sustainable Agriculture Re-
13 search and Education program;

14 “(vi) the National Soil Dynamics Lab-
15 oratory;

16 “(vii) the National Cooperative Soil
17 Survey;

18 “(viii) the Economic Research Service;

19 “(ix) regional and rural development
20 centers; and

21 “(x) other existing climate-related re-
22 search networks within the Department of
23 Agriculture that the Secretary determines
24 to be appropriate to participate in the Net-
25 work; and

1 “(C) other government-affiliated entities
2 and climate resilience-related research networks
3 outside of the Department of Agriculture, in-
4 cluding—

5 “(i) the Foundation for Food and Ag-
6 riculture Research;

7 “(ii) the U.S. Global Change Research
8 Program;

9 “(iii) State and public weather station
10 networks;

11 “(iv) the National Weather Service
12 and other weather data systems within the
13 National Oceanic and Atmospheric Admin-
14 istration;

15 “(v) the harvest program of the Na-
16 tional Aeronautics and Space Administra-
17 tion; and

18 “(vi) other existing local, State, or
19 Federal climate-related research networks,
20 as determined by the Secretary.

21 “(d) ACTIVITIES OF THE NETWORK.—

22 “(1) IN GENERAL.—An individual or entity
23 within the Network may—

24 “(A) through the means described in para-
25 graph (2)—

- 1 “(i) initiate, expand, or sustain agri-
2 cultural research programs that build ca-
3 pacity to mitigate, respond to, and recover
4 from climate change disasters, including—
5 “(I) programs of the Agricultural
6 Research Service;
7 “(II) the Agriculture and Food
8 Research Initiative;
9 “(III) the Sustainable Agri-
10 culture Research and Education pro-
11 gram;
12 “(IV) the Agriculture Advanced
13 Research and Development Authority;
14 and
15 “(V) programs of the Foundation
16 for Food and Agriculture Research;
17 “(ii) inform and advise about agricul-
18 tural climate variability, change, vulner-
19 ability, risk, adaptation, and mitigation;
20 “(iii) respond to climate impacts on
21 ecosystems, economics, and diversity;
22 “(iv) collect and store agricultural cli-
23 mate data to share with other individuals
24 and entities within the Network and Fed-
25 eral research partners;

1 “(v) assist agricultural producers in
2 implementing new management approaches
3 to adapt to, reduce the risk of, and provide
4 societal solutions to mitigate climate
5 change;

6 “(vi) transfer technology, research
7 outcomes, and information; and

8 “(vii) improve climate change aware-
9 ness, education, and planning assistance,
10 as necessary; and

11 “(B) enter into cooperative agreements or
12 contracts, on a multiyear basis, with commu-
13 nity-based, direct-service organizations to ini-
14 tiate, expand, or sustain—

15 “(i) activities carried out under sub-
16 paragraph (A) and paragraph (2); or

17 “(ii) programs described in subsection
18 (b)(1).

19 “(2) MEANS DESCRIBED.—An eligible entity
20 may carry out the activities described in paragraph
21 (1)(A) through—

22 “(A) the development of phone technology,
23 online applications, websites, handbooks, manu-
24 als, publications, warning systems, and other

1 communication networks in all regionally appro-
2 priate languages;

3 “(B) training, including training programs
4 and workshops, for disseminating information
5 to—

6 “(i) crop insurance agents;

7 “(ii) loan and credit officers;

8 “(iii) agricultural suppliers;

9 “(iv) agricultural producers;

10 “(v) State cooperative agents;

11 “(vi) third-party providers (as defined
12 in section 1242(a) of the Food Security
13 Act of 1985 (16 U.S.C. 3842(a)));

14 “(vii) Certified Crop Advisers and
15 Certified Professional Soil Scientists cer-
16 tified by the American Society of Agron-
17 omy;

18 “(viii) Federal officers and employees,
19 including officers and employees of the
20 Natural Resources Conservation Service,
21 the Farm Service Agency, the Agricultural
22 Research Service, and the Forest Service;

23 “(ix) non-Federal technical assistance
24 providers;

1 “(x) climate change experts who work
2 with agricultural producers; and

3 “(xi) other individuals and entities
4 that may—

5 “(I) assist agricultural producers
6 who are vulnerable to climate impacts;
7 or

8 “(II) provide societal solutions to
9 mitigate the climate impacts of agri-
10 culture;

11 “(C) curriculum development for managing
12 climate risks, mitigating climate change, and
13 understanding climate risks and economic im-
14 plications; and

15 “(D) such other means as the Secretary
16 determines to be appropriate.

17 “(e) REPORT TO CONGRESS.—

18 “(1) IN GENERAL.—Not later than 1 year after
19 the date of enactment of the Improving Coordination
20 of Agriculture Research and Data Act, the Secretary
21 shall submit to Congress and any relevant Federal
22 department or agency, and make publicly available,
23 a report describing—

1 “(A) the current needs of climate mitiga-
2 tion and resilience research and data systems in
3 the food and agriculture sector;

4 “(B) progress made toward developing and
5 adopting climate solutions across the food and
6 agriculture system;

7 “(C) technical assistance needs of rural
8 communities and agricultural producers;

9 “(D) actions and recommendations of the
10 Agriculture Climate Scientific Research Com-
11 mittee (established under section 1413C); and

12 “(E) recommended Federal budget activi-
13 ties and funding levels for research, data sys-
14 tems, and technical assistance priorities relating
15 to climate mitigation.

16 “(2) CONTENTS.—The report under paragraph
17 (1) shall include—

18 “(A) an inventory and assessment of ef-
19 forts to support the climate change adaptation,
20 mitigation, risk management, and resilience
21 tools for agricultural producers by—

22 “(i) the Federal Government;

23 “(ii) States and territories of the
24 United States;

1 “(iii) Indian Tribes (as defined in sec-
2 tion 4 of the Indian Self-Determination
3 and Education Assistance Act (25 U.S.C.
4 5304));

5 “(iv) units of local government;

6 “(v) communities comprising agricul-
7 tural producers;

8 “(vi) qualified nonprofit organizations,
9 as determined by the Secretary;

10 “(vii) agriculture and food businesses;

11 “(viii) State extension services;

12 “(ix) land-grant colleges and univer-
13 sities; and

14 “(x) other appropriate entities, as de-
15 termined by the Secretary;

16 “(B) a baseline report on soil carbon se-
17 questration on measurable soil carbon stocks
18 and sequestration;

19 “(C) a description of the challenges faced
20 by agricultural producers that may impact the
21 climate change resilience of those agricultural
22 producers;

23 “(D) a long-term strategy for responding
24 to the challenges described under subparagraph
25 (C) and recommendations based on best prac-

1 tices for further action to be carried out by ap-
2 propriate Federal departments or agencies—

3 “(i) to improve the response by the
4 Federal Government to those challenges;
5 and

6 “(ii) to seek to improve climate
7 change resilience among rural communities
8 and agricultural producers; and

9 “(E) an evaluation of the impact that cli-
10 mate change challenges faced by rural commu-
11 nities, Indian Tribes, and agricultural producers
12 have on—

13 “(i) the agricultural workforce;

14 “(ii) agricultural production;

15 “(iii) rural families and communities,
16 including relating to food security; and

17 “(iv) succession planning.”.

