

118TH CONGRESS  
1ST SESSION

# S. 2317

To amend the Agricultural Research, Extension, and Education Reform Act of 1998 and the Food, Agriculture, Conservation, and Trade Act of 1990 to direct the Agricultural Research Service to expand organic research, and for other purposes.

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## IN THE SENATE OF THE UNITED STATES

JULY 13, 2023

Mr. FETTERMAN (for himself, Mr. CASEY, Mr. WELCH, Mr. BOOKER, Mr. BROWN, Mr. WYDEN, and Mrs. GILLIBRAND) introduced the following bill; which was read twice and referred to the Committee on Agriculture, Nutrition, and Forestry

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## A BILL

To amend the Agricultural Research, Extension, and Education Reform Act of 1998 and the Food, Agriculture, Conservation, and Trade Act of 1990 to direct the Agricultural Research Service to expand organic research, 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.**

4 This Act may be cited as the “Organic Science and  
5 Research Investment Act of 2023”.

1 **SEC. 2. COORDINATING AND EXPANDING ORGANIC RE-**  
2 **SEARCH INITIATIVE.**

3 Title IV of the Agricultural Research, Extension, and  
4 Education Reform Act of 1998 is amended by inserting  
5 before section 404 (7 U.S.C. 7624) the following:

6 **“SEC. 401. COORDINATING AND EXPANDING ORGANIC RE-**  
7 **SEARCH INITIATIVE.**

8 “(a) DEFINITIONS.—In this section:

9 “(1) INITIATIVE.—The term ‘Initiative’ means  
10 the Coordinating and Expanding Organic Research  
11 Initiative established under subsection (b).

12 “(2) SECRETARY.—The term ‘Secretary’ means  
13 the Secretary, acting through the Under Secretary  
14 for Research, Education, and Economics, in con-  
15 sultation with the Office of the Chief Scientist.

16 “(b) ESTABLISHMENT.—The Secretary shall estab-  
17 lish, and appoint the members of, an initiative, to be  
18 known as the ‘Coordinating and Expanding Organic Re-  
19 search Initiative’, to coordinate and expand the resources  
20 that the Agricultural Research Service, the National Insti-  
21 tute of Food and Agriculture, the Economic Research  
22 Service, and the National Agricultural Statistics Service  
23 dedicate to organic agricultural research.

24 “(c) DUTIES.—The Initiative shall carry out the fol-  
25 lowing duties:

1           “(1) Coordinating all research conducted by the  
2 Secretary that is applicable to organic agricultural  
3 producers and transitioning-to-organic agricultural  
4 producers.

5           “(2) Reviewing and assessing the completed  
6 and ongoing organic and transitioning-to-organic ag-  
7 ricultural research of the Secretary.

8           “(3) Developing iterative strategic plans for fu-  
9 ture organic and transitioning-to-organic agricul-  
10 tural research of the Secretary.

11           “(4) Conducting the surveys and submitting to  
12 the Secretary the reports under subsection (e)(1).

13           “(d) APPOINTMENT OF MEMBERS.—

14           “(1) IN GENERAL.—The Secretary shall appoint  
15 not fewer than 12, and not more than 18, members  
16 to the Initiative.

17           “(2) ELIGIBILITY.—To be eligible for appoint-  
18 ment to the Initiative under paragraph (1), an indi-  
19 vidual shall—

20           “(A) be in the competitive service or the  
21 Senior Executive Service (as defined in sections  
22 2102 and 2101a of title 5, United States Code);  
23 and

1           “(B) have expertise in organic agriculture  
2           from a science, research, or technical assistance  
3           division of a Department agency.

4           “(3) REPRESENTATION.—In appointing mem-  
5           bers to the Initiative, the Secretary shall ensure  
6           that—

7                   “(A) not fewer than  $\frac{1}{4}$  of the members are  
8                   appointed from each of—

9                           “(i) the Agricultural Research Service;  
10                           and

11                           “(ii) the National Institute of Food  
12                           and Agriculture; and

13                   “(B) not fewer than 1 member is ap-  
14                   pointed from each of—

15                           “(i) the Office of the Chief Scientist;

16                           “(ii) the Agricultural Marketing Serv-  
17                           ice;

18                           “(iii) the Economic Research Service;

19                           and

20                           “(iv) the National Agricultural Statis-  
21                           tics Service.

22           “(4) CHAIR.—The Secretary shall designate a  
23           member of the Initiative appointed from the Office  
24           of the Chief Scientist to serve as the Chair of the  
25           Initiative.

1 “(5) TERM.—A member of the Initiative—

2 “(A) shall serve for a term of 5 years; and

3 “(B) may be reappointed to the Initiative.

4 “(e) SURVEYS; REPORTS.—

5 “(1) IN GENERAL.—Not later than 3 years  
6 after the establishment of the Initiative, and every 5  
7 years thereafter, in coordination with the roadmap  
8 for agricultural research, education, and extension  
9 described in section 7504 of the Food, Conservation,  
10 and Energy Act of 2008 (7 U.S.C. 7614a), the Ini-  
11 tiative shall—

12 “(A) conduct a survey of all research relat-  
13 ing to organic agriculture of the Secretary; and

14 “(B) submit to the Secretary a report con-  
15 taining the findings of the survey conducted  
16 under subparagraph (A), which shall include  
17 sections relating to each of the 4 agencies de-  
18 scribed in subsection (b).

19 “(2) RECOMMENDATIONS.—The Initiative shall  
20 include in each report submitted under paragraph  
21 (1)(B) recommendations relating to—

22 “(A) expanding the research conducted by  
23 the Secretary that—

24 “(i) is applicable to agricultural pro-  
25 ducers that adhere to the requirements

1 under the national organic program estab-  
2 lished under the Organic Foods Production  
3 Act of 1990 (7 U.S.C. 6501 et seq.); and

4 “(ii) would explore the new or en-  
5 hanced research opportunities that could  
6 lead to new discoveries, foster innovation,  
7 improve technologies, and promote inte-  
8 grated systems approaches to assist—

9 “(I) organic agricultural pro-  
10 ducers;

11 “(II) consumers of organic food  
12 products;

13 “(III) organic marketing and dis-  
14 tribution channels;

15 “(IV) transitioning-to-organic ag-  
16 ricultural producers, including with  
17 respect to barriers to transitioning to  
18 organic production and producers who  
19 have considered transitioning to or-  
20 ganic production but decided not to  
21 do so; and

22 “(V) the organic food industry;

23 “(B) strategies to increase the coordination  
24 and effectiveness of projects carried out by the  
25 Secretary that are applicable to organic produc-

1 tion and that would improve the efficiency, pro-  
2 ductivity, profitability, and ecosystem services  
3 of organic crop and livestock production, includ-  
4 ing strategies relating to—

5 “(i) developing new public plant  
6 cultivars and livestock breeds that are re-  
7 gionally adapted and appropriate for or-  
8 ganic production;

9 “(ii) expanding the applicability and  
10 cost-effectiveness of integrated, ecologically  
11 based pest, weed, and disease management  
12 for crop and livestock systems;

13 “(iii) developing integrated organic  
14 production systems that—

15 “(I) enhance ecosystem services  
16 relating to organic crop and livestock  
17 production; and

18 “(II) optimize agricultural resil-  
19 ience to the impacts of climate change  
20 and other stresses, including soil con-  
21 servation and soil health, biodiversity,  
22 water management, carbon sequestra-  
23 tion, and greenhouse gas mitigation;

24 “(iv) improving the remote sensing  
25 and monitoring capabilities for ecosystem

1 services relating to organic crop and live-  
2 stock production, including soil conserva-  
3 tion and soil health, biodiversity, water  
4 management, carbon sequestration, and  
5 greenhouse gas mitigation;

6 “(v) developing grazing, pasture, for-  
7 age, and livestock manure management  
8 techniques that are regionally adapted and  
9 appropriate for organic production;

10 “(vi) enhancing irrigation and water  
11 management techniques used in organic  
12 crop and livestock production;

13 “(vii) enhancing food safety relating  
14 to organic crops and livestock products, in-  
15 cluding guidance on compliance with the  
16 Federal Food, Drug, and Cosmetic Act (21  
17 U.S.C. 301 et seq.);

18 “(viii) developing new products and  
19 new uses of organic crops and livestock  
20 products;

21 “(ix) enhancing the quality of organi-  
22 cally produced food, including taste, ap-  
23 pearance, and nutritional value, after being  
24 processed into organic crop and livestock



1 products, through genetic, processing, and  
2 related research topics; and

3 “(x) other similar, relevant topics, as  
4 determined by the Initiative; and

5 “(C) the development of data and applied  
6 research-based information useful to organic  
7 and conventional crop producers, associations of  
8 those producers, and other interested bene-  
9 ficiaries in evaluating the organic and conven-  
10 tional crops industries from a regional and na-  
11 tional perspective.

12 “(3) REVIEW OF PRIOR REPORT.—The Initia-  
13 tive shall include in each report submitted under  
14 paragraph (1)(B)—

15 “(A) a review of the recommendations de-  
16 scribed in paragraph (2) included in the prior  
17 report submitted under paragraph (1)(B); and

18 “(B) the actions taken by the Secretary to  
19 implement those recommendations.

20 “(f) CONSULTATION.—

21 “(1) IN GENERAL.—In carrying out this sec-  
22 tion, the Initiative shall engage in consultation, in-  
23 cluding with—

24 “(A) the National Organic Standards  
25 Board; and

1                   “(B) land-grant colleges and universities.

2                   “(2) ORGANIC AND CONVENTIONAL INDUS-  
3 TRIES.—In preparing each report under subsection  
4 (e)(1)(B), the Initiative shall consult, on an ongoing  
5 basis, with a diverse array of—

6                   “(A) organic and conventional farmers,  
7 ranchers, handlers; and

8                   “(B) organizations that serve those farm-  
9 ers, ranchers, and handlers.

10                  “(g) CONSIDERATION BY SECRETARY.—In preparing  
11 the annual budget recommendations for the Department,  
12 the Secretary shall take into consideration the findings  
13 and recommendations contained in the most recently sub-  
14 mitted report under subsection (e)(1)(B).

15                  “(h) REPORT BY SECRETARY.—In the budget mate-  
16 rial submitted to Congress by the Secretary of Agriculture  
17 in connection with the budget of the United States Gov-  
18 ernment submitted by the President under section 1105  
19 of title 31, United States Code, for each fiscal year, the  
20 Secretary of Agriculture shall include a report describing  
21 how the Secretary addressed each recommendation of the  
22 Initiative contained in the most recently submitted report  
23 under subsection (e)(1)(B).”.

1 **SEC. 3. REPORT ON ORGANIC ACREAGE ON AGRICULTURAL**  
2 **RESEARCH SERVICE STATIONS.**

3 Not later than 3 years after the date of enactment  
4 of this Act, the Secretary of Agriculture, acting through  
5 the Administrator of the Agricultural Research Service,  
6 shall—

7 (1) prepare a report describing the resources  
8 needed to maintain a proportion of acreage engaged  
9 in research conducted on certified organic agricul-  
10 tural land that is equal to or greater than the mar-  
11 ket share of the organic agriculture industry in agri-  
12 cultural production, as determined by the Adminis-  
13 trator of the National Agricultural Statistics Service;  
14 and

15 (2) submit the report prepared under para-  
16 graph (1) to the Committee on Agriculture of the  
17 House of Representatives and the Committee on Ag-  
18 riculture, Nutrition, and Forestry of the Senate.

19 **SEC. 4. ORGANIC AGRICULTURE RESEARCH AND EXTEN-**  
20 **SION INITIATIVE.**

21 Section 1672B of the Food, Agriculture, Conserva-  
22 tion, and Trade Act of 1990 (7 U.S.C. 5925b) is amend-  
23 ed—

24 (1) in subsection (a)—

25 (A) in the matter preceding paragraph

26 (1)—

1 (i) by striking “subsection (e)” and  
2 inserting “subsection (f)”; and

3 (ii) by striking “2023” and inserting  
4 “2028”;

5 (B) in paragraph (7), by striking “and” at  
6 the end;

7 (C) in paragraph (8), by striking the pe-  
8 riod at the end and inserting a semicolon; and

9 (D) by adding at the end the following:

10 “(9) facilitating the identification and adoption  
11 of traditional ecological knowledge in accordance  
12 with subsection (e);

13 “(10) developing cultural practices and other  
14 allowable alternatives to substances recommended  
15 for removal from the National List of approved and  
16 prohibited substances under section 2118; and

17 “(11) identifying how organic agriculture can  
18 adapt to and mitigate climate change through reduc-  
19 ing greenhouse gas emissions, building landscape re-  
20 siliency, and facilitating other related ecosystem  
21 services.”;

22 (2) in subsection (b)—

23 (A) in the subsection heading, by striking  
24 “TYPES AND PROCESS,” and inserting “TERM,  
25 TYPES, AND PROCESS;”;

1 (B) by inserting “(3)” after “Paragraphs”;

2 and

3 (C) by striking “(7 U.S.C. 450i)” and in-

4 serting “(7 U.S.C. 3157(b))”;

5 (3) by striking subsection (e) and inserting the

6 following:

7 “(e) INDIGENOUS TRADITIONAL ECOLOGICAL  
8 KNOWLEDGE.—Any grants made under this section for  
9 the purposes of facilitating the identification and adoption  
10 of indigenous traditional ecological knowledge shall be sub-  
11 ject to the following requirements:

12 “(1) A 1994 Institution (as defined in section  
13 532 of the Equity in Educational Land-Grant Sta-  
14 tus Act of 1994 (7 U.S.C. 301 note; Public Law  
15 103–382)) shall have the role of project director.

16 “(2) The free, prior, and informed consent of  
17 any Indian Tribes (as defined in section 4 of the In-  
18 dian Self-Determination and Education Assistance  
19 Act (25 U.S.C. 5304)) or Native Hawaiian organiza-  
20 tions that possess the applicable indigenous tradi-  
21 tional ecological knowledge shall be obtained.

22 “(3) Appropriate attribution to the sources of  
23 the applicable indigenous traditional ecological  
24 knowledge shall be identified.”; and

25 (4) in subsection (f)—

- 1 (A) in paragraph (1)—
- 2 (i) in subparagraph (C), by striking
- 3 “and” at the end;
- 4 (ii) in subparagraph (F), by striking
- 5 “and” at the end;
- 6 (iii) in subparagraph (G), by striking
- 7 “and each fiscal year thereafter.” and in-
- 8 serting a semicolon; and
- 9 (iv) by adding at the end the fol-
- 10 lowing:
- 11 “(H) \$60,000,000 for fiscal year 2024;
- 12 “(I) \$70,000,000 for fiscal year 2025;
- 13 “(J) \$80,000,000 for fiscal year 2026;
- 14 “(K) \$90,000,000 for fiscal year 2027;
- 15 and
- 16 “(L) \$100,000,000 for fiscal year 2028
- 17 and each fiscal year thereafter.”;
- 18 (B) in paragraph (2), by striking “2023”
- 19 and inserting “2028”; and
- 20 (C) by striking paragraph (3).

21 **SEC. 5. RESEARCHING THE TRANSITION TO ORGANIC AGRI-**

22 **CULTURAL PRODUCTION.**

23 Title XVI of the Food, Agriculture, Conservation,

24 and Trade Act of 1990 is amended by inserting after sec-

25 tion 1673 (7 U.S.C. 5926) the following:

1 **“SEC. 1674. RESEARCHING THE TRANSITION TO ORGANIC**  
2 **AGRICULTURAL PRODUCTION.**

3 “(a) COMPETITIVE SPECIALIZED RESEARCH AND  
4 EXTENSION GRANTS AUTHORIZED.—The Secretary of  
5 Agriculture (referred to in this section as the ‘Secretary’),  
6 in consultation with the National Agricultural Research,  
7 Extension, Education, and Economics Advisory Board,  
8 may make competitive grants to support research, edu-  
9 cation, and extension activities relating to the transition  
10 of nonorganic agricultural production systems into organic  
11 agricultural production systems for the purposes of—

12 “(1) overcoming barriers to transitioning to or-  
13 ganic agricultural production;

14 “(2) documenting and understanding the effects  
15 of organic agricultural production practices on eco-  
16 system services, including soil health and fertility,  
17 greenhouse gas mitigation and sequestration, water  
18 management, biodiversity-related services, and pest  
19 management; and

20 “(3) developing improved technologies, methods,  
21 models, and metrics to document, describe, and opti-  
22 mize ecosystem services of transitioning nonorganic  
23 agricultural production systems into organic agricul-  
24 tural production systems.

25 “(b) GRANT TERM, TYPES, AND PROCESS; PROHIBI-  
26 TION ON CONSTRUCTION.—Paragraphs (3), (4), (7), (8),

1 and (11)(B) of subsection (b) of the Competitive, Special,  
2 and Facilities Research Grant Act (7 U.S.C. 3157(b))  
3 shall apply with respect to the making of grants under  
4 this section.

5 “(c) PARTNERSHIPS ENCOURAGED.—Following the  
6 completion of a peer review process for grant proposals  
7 received under this section, the Secretary may provide a  
8 priority to the grant proposals, found in the peer review  
9 process to be scientifically meritorious, that—

10 “(1) would involve—

11 “(A) active partnerships with agricultural  
12 producers; or

13 “(B) the conduct of on-farm or consumer  
14 research; and

15 “(2) would involve active partnerships with—

16 “(A) 1890 Institutions (as defined in sec-  
17 tion 2 of the Agricultural Research, Extension,  
18 and Education Reform Act of 1998 (7 U.S.C.  
19 7601));

20 “(B) 1994 Institutions (as defined in sec-  
21 tion 532 of the Equity in Educational Land-  
22 Grant Status Act of 1994 (7 U.S.C. 301 note;  
23 Public Law 103–382)); and



1           “(C) Hispanic-serving institutions (as de-  
2           fined in section 502 of the Higher Education  
3           Act of 1965 (20 U.S.C. 1101a)).

4           “(d) AUTHORIZATION OF APPROPRIATIONS.—There  
5           are authorized to be appropriated to carry out this sec-  
6           tion—

7           “(1) \$10,000,000 for each of fiscal years 2024  
8           through 2026; and

9           “(2) \$12,000,000 for fiscal year 2027 and each  
10          fiscal year thereafter.”.

11 **SEC. 6. ORGANIC PRODUCTION AND MARKET DATA INITIA-**  
12 **TIVES.**

13          Section 7407 of the Farm Security and Rural Invest-  
14          ment Act of 2002 (7 U.S.C. 5925c) is amended—

15           (1) by redesignating subsection (d) as sub-  
16           section (e);

17           (2) by inserting after subsection (e) the fol-  
18           lowing:

19          “(d) ECONOMIC IMPACT ANALYSIS OF ORGANIC  
20          FARMING AND CERTIFICATION.—

21           “(1) IN GENERAL.—The Secretary, acting  
22           through the Administrator of the Economic Re-  
23           search Service (referred to in this subsection as the  
24           ‘Secretary’), shall conduct an economic impact anal-  
25           ysis of organic agricultural management conducted

1 in accordance with the national organic program es-  
2 tablished under the Organic Foods Production Act  
3 of 1990 (7 U.S.C. 6501 et seq.).

4 “(2) REQUIREMENTS.—The analysis under  
5 paragraph (1) shall—

6 “(A) take into consideration information  
7 about farming and ranching operations of a va-  
8 riety of sizes, with regional differences, and  
9 that have a diversity of production practices  
10 and methods; and

11 “(B) consider the direct and indirect eco-  
12 nomic impacts of organic agriculture on rural  
13 and urban communities, including—

14 “(i) the vitality of the local economy;

15 “(ii) the labor market;

16 “(iii) environmental quality;

17 “(iv) social dynamics;

18 “(v) land ownership; and

19 “(vi) any other information, data, or  
20 analysis that the Secretary determines to  
21 be necessary to make the analysis com-  
22 prehensive, accurate, and useful.

23 “(3) PLAN.—Not later than 1 year after the  
24 date of enactment of the Organic Science and Re-  
25 search Investment Act of 2023, the Secretary shall

1 submit a plan to conduct the analysis under para-  
2 graph (1) to—

3 “(A) the Committee on Agriculture, Nutri-  
4 tion, and Forestry of the Senate; and

5 “(B) the Committee on Agriculture of the  
6 House of Representatives.

7 “(4) SUBMISSION.—Not later than 3 years  
8 after the date on which the Secretary submits the  
9 plan under paragraph (3), the Secretary shall sub-  
10 mit to the committees described in that paragraph  
11 a report describing the results of the analysis con-  
12 ducted under paragraph (1).”; and

13 (3) in subsection (e) (as so redesignated)—

14 (A) in paragraph (1)—

15 (i) in subparagraph (A), by striking  
16 “and” at the end;

17 (ii) in subparagraph (B), by striking  
18 the period at the end and inserting “;  
19 and”; and

20 (iii) by adding at the end the fol-  
21 lowing:

22 “(C) \$10,000,000 for the period of fiscal  
23 years 2024 through 2028.”; and

24 (B) in paragraph (2), by striking  
25 “\$5,000,000 for each of fiscal years 2008

1 through 2023” and inserting “\$10,000,000 for  
2 each of fiscal years 2024 through 2028”.

○