103d CONGRESS 1ST SESSION S. 1288

To provide for the coordination and implementation of a national aquaculture policy for the private sector by the Secretary of Agriculture, to establish an aquaculture commercialization research program, and for other purposes.

IN THE SENATE OF THE UNITED STATES

JULY 27 (legislative day, JUNE 30), 1993

Mr. AKAKA (for himself, Mr. LEAHY, Mr. CRAIG, Mr. GORTON, and Mr. PELL) introduced the following bill; which was read twice and referred to the Committee on Agriculture, Nutrition, and Forestry

A BILL

- To provide for the coordination and implementation of a national aquaculture policy for the private sector by the Secretary of Agriculture, to establish an aquaculture commercialization research program, 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; REF

4 ERENCES.

5 (a) SHORT TITLE.—This Act may be cited as the
6 "National Aquaculture Development, Commercialization,
7 and Promotion Act of 1993".

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

2 this Act is as follows:

- Sec. 1. Short title; table of contents; references.
- Sec. 2. Findings and purpose.
- Sec. 3. Definitions.

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- Sec. 4. National aquaculture development plan.
- Sec. 5. National Aquaculture Information Center; assignment of new programs; market development program.
- Sec. 6. Coordination with the aquaculture industry.
- Sec. 7. Aquaculture commercialization research.
- Sec. 8. National policy for private aquaculture.
- Sec. 9. Pollution assessment.
- Sec. 10. Native American fishpond revitalization.
- Sec. 11. Disaster assistance for aquaculture farms.
- Sec. 12. Aquaculture education.
- Sec. 13. International aquaculture scientific exchange.
- Sec. 14. Authorization of appropriations.
- Sec. 15. Eligibility of aquaculture farmers for farm credit assistance.
- Sec. 16. International aquaculture information and data collection.
- Sec. 17. Eligibility of aquaculture farms for emergency conservation program.
- Sec. 18. Aquaculture information network report.
- Sec. 19. Implementation report.

3 (c) References to National Aquaculture Act

4 OF 1980.—Except as otherwise expressly provided, when-

- 5 ever in this Act an amendment or repeal is expressed in
- 6 terms of an amendment to, or repeal of, a section or other
- 7 provision, the reference shall be considered to be made to
- 8 a section or other provision of the National Aquaculture
- 9 Act of 1980 (16 U.S.C. 2801 et seq.).

10 SEC. 2. FINDINGS AND PURPOSE.

11 (a) FINDINGS.—Subsection (a) of section 2 (16

12 U.S.C. 2801(a)) is amended to read as follows:

13 "(a) FINDINGS.—Congress finds the following:

14 "(1) The wild harvest or capture fisheries of15 certain seafood species exceeds levels of optimum

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sustainable yield, thereby making it more difficult to 2 meet the increasing demand for aquatic food.

"(2) To satisfy the domestic market for aquatic 3 4 food, the United States imports more than 59 per-5 cent of its seafood. This dependence on imports adversely affects the national balance of payments and 6 7 contributes to the uncertainty of supplies and product quality. 8

"(3) Although aquaculture currently contributes 9 10 approximately 16 percent by weight of world seafood 11 production, less than 9 percent by weight of current United States seafood production results from aqua-12 13 culture. As a result, domestic aquaculture production has the potential for significant growth. 14

"(4) Aquaculture production of aquatic animals 15 and plants can provide sources for food, industrial 16 17 materials, pharmaceuticals, energy, and aesthetic en-18 joyment, and can assist in the control and abate-19 ment of pollution.

"(5) The rehabilitation and enhancement of fish 20 21 and shellfish resources are desirable applications of 22 aquaculture technology.

"(6) The principal responsibility for the devel-23 24 opment of aquaculture in the United States must 25 rest with the private sector.

| 1 | "(7) Despite its potential, the development of |
|----|--|
| 2 | aquaculture in the United States has been inhibited |
| 3 | by many scientific, economic, legal, and production |
| 4 | factors, such as— |
| 5 | <pre>``(A) inadequate credit;</pre> |
| 6 | "(B) limited research and development |
| 7 | programs; |
| 8 | "(C) diffused legal jurisdiction; |
| 9 | "(D) inconsistent interpretations between |
| 10 | Federal agencies; |
| 11 | "(E) the lack of management information; |
| 12 | "(F) the lack of supportive policies of the |
| 13 | Federal Government; |
| 14 | ``(G) the lack of the rapeutic compounds for |
| 15 | treatment of the diseases of aquatic animals |
| 16 | and plants; and |
| 17 | "(H) the lack of reliable supplies of seed |
| 18 | stock. |
| 19 | "(8) Many areas of the United States are suit- |
| 20 | able for aquaculture, but are subject to land-use or |
| 21 | water-use management policies and regulations that |
| 22 | do not adequately consider the potential for aqua- |
| 23 | culture and may inhibit the development of aqua- |
| 24 | culture. |

"(9) In 1990, the United States ranked only
 tenth in the world in aquaculture production based
 on total value of products.

4 "(10) Despite the current and increasing im5 portance of private aquaculture to the United States
6 economy and to rural areas in the United States,
7 Federal efforts to nurture aquaculture development
8 have failed to keep pace with the needs of fish and
9 aquatic plant farmers.

"(11) The United States has a premier opportunity to develop an important new agricultural industry to serve national needs and the global marketplace.

''(12) United States aquaculture provides
wholesome products for domestic consumers and
contributes significantly to the quality of life in rural
areas in the United States.

18 "(13) Since 1980, the United States trade defi19 cit in edible fishery products foods has increased by
20 48 percent, from \$1,777,921,000 to \$2,634,738,000
21 in 1991.

"(14) Aquaculture is poised to become a major
growth industry of the 21st century. With global
seafood demand projected to increase 70 percent by
2025, and harvests from capture fisheries stable or

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declining, aquaculture would have to increase pro duction by 700 percent, a total of 77 million metric
 tons annually.

4 "(15) Private aquaculture production in the 5 United States has increased an average of 20 per-6 cent by weight annually since 1980, and is one of 7 the fastest growing segments of United States and 8 world agriculture.

9 "(16) In 1990, private United States aqua-10 culture production was 860,750,000 pounds, worth 11 \$761,500,000 to United States fish farmers, up 12 from 203,178,000 pounds, worth \$191,977,000, in 13 1980.

''(17) Since 1960, per capita consumption of
aquatic foods in the United States has increased by
49 percent to 14.9 pounds in 1991, and could reach
20 pounds by the year 2000. Total United States
demand is projected to double by 2020.''.

19 (b) PURPOSE.—Subsection (b) of section 2 (1620 U.S.C. 2801(b)) is amended to read as follows:

21 "(b) PURPOSE.—It is the purpose of this Act to pro22 mote aquaculture in the United States by—

23 "(1) declaring a national aquaculture policy;
24 "(2) establishing private aquaculture as a form
25 of agriculture;

| 1 | ''(3) establishing cultivated aquatic animals, |
|----|---|
| 2 | plants, microorganisms, and their products produced |
| 3 | by private persons and moving in standard commod- |
| 4 | ity channels as agricultural livestock, crops, and |
| 5 | commodities; |
| 6 | "(4) establishing the Department as the lead |
| 7 | Federal agency for the development, implementation, |
| 8 | promotion, and coordination of national policy and |
| 9 | programs for private aquaculture by— |
| 10 | "(A) designating the Secretary as the per- |
| 11 | manent chairperson of a Federal interagency |
| 12 | aquaculture coordinating group; |
| 13 | "(B) assigning overall responsibility to the |
| 14 | Secretary for coordinating, developing, and car- |
| 15 | rying out policies and programs for private |
| 16 | aquaculture; and |
| 17 | ''(C) establishing a National Aquaculture |
| 18 | Information Center within the Department to |
| 19 | support the United States aquaculture industry; |
| 20 | and |
| 21 | "(5) encouraging— |
| 22 | ''(A) aquaculture activities and programs |
| 23 | in both the public and private sectors of the |
| 24 | economy of the United States; |

| 1 | ''(B) the creation of new industries and job |
|----|---|
| 2 | opportunities related to aquaculture activities; |
| 3 | "(C) the reduction of the fisheries trade |
| 4 | deficit; and |
| 5 | ''(D) other national policy benefits deriving |
| 6 | from aquaculture activities.". |
| 7 | SEC. 3. DEFINITIONS. |
| 8 | Section 3 (16 U.S.C. 2802) is amended— |
| 9 | (1) in paragraph (1), by striking ''the |
| 10 | propogation" and all that follows through the period |
| 11 | at the end and inserting ''the controlled cultivation |
| 12 | of aquatic plants and animals."; |
| 13 | (2) in paragraph (3), by inserting before the pe- |
| 14 | riod at the end the following: "or microorganism"; |
| 15 | (3) by redesignating paragraphs (7) through |
| 16 | (9) as paragraphs (9) through (11), respectively; |
| 17 | (4) by redesignating paragraphs (5) and (6) as |
| 18 | paragraphs (6) and (7), respectively; |
| 19 | (5) by inserting after paragraph (4) the follow- |
| 20 | ing new paragraph: |
| 21 | "(5) The term 'Department' means the United |
| 22 | States Department of Agriculture."; and |
| 23 | (6) by inserting before paragraph (9) (as redes- |
| 24 | ignated by paragraph (3)) the following new para- |
| 25 | graph: |

| 1 | ''(8) The term 'private aquaculture' means the |
|----|--|
| 2 | controlled cultivation of aquatic plants and animals |
| 3 | other than cultivation carried out by, or under con- |
| 4 | tract with, the Federal Government or any State or |
| 5 | local government.". |
| 6 | SEC. 4. NATIONAL AQUACULTURE DEVELOPMENT PLAN. |
| 7 | Section 4 (16 U.S.C. 2803) is amended— |
| 8 | (1) in the second sentence of subsection (c)— |
| 9 | (A) in subparagraph (A), by adding ''and'' |
| 10 | at the end; |
| 11 | (B) in subparagraph (B), by striking ''; |
| 12 | and" and inserting a period; and |
| 13 | (C) by striking subparagraph (C); |
| 14 | (2) in the second sentence of subsection (d), by |
| 15 | striking "Secretaries determine" and inserting "Sec- |
| 16 | retary, in consultation with the other Secretaries, |
| 17 | determines''; |
| 18 | (3) in subsection (e)— |
| 19 | (A) by striking "Secretaries" and inserting |
| 20 | "Secretary"; and |
| 21 | (B) by inserting "and in consultation with |
| 22 | the other Secretaries and representatives of |
| 23 | other Federal agencies'' after ''coordinating |
| 24 | group''; and |

1 (4) by adding at the end the following new sub-2 section:

3 "(f) Accomplishments in Aquaculture Pro-4 GRAMS.—Not later than December 31, 1994, the Secretary, in consultation with the Secretary of Commerce 5 and the Secretary of the Interior, shall submit to Congress 6 7 a report evaluating the actions taken in accordance with subsection (d) with respect to the Plan, and making rec-8 9 ommendations for updating and modifying the Plan. The report shall also contain a compendium on Federal regula-10 tions relating to aquaculture.". 11

12 SEC. 5. NATIONAL AQUACULTURE INFORMATION CENTER;

| 13 | ASSIGNMENT | OF | NEW | PROGRAMS; | MARKET |
|----|------------|------|------|-----------|--------|
| 14 | DEVELOPMEN | T PI | ROGR | AM. | |

15 Section 5 (16 U.S.C. 2804) is amended—

(1) in subsection (b)(3), by striking "Secretaries deem" and inserting "Secretary, in consultation
with the other Secretaries, considers";

19 (2) in subsection (c)(1)(B)—

20 (A) by striking clause (i) and inserting the21 following new clause:

"(i) establish, within the Department,
within the National Agricultural Library, a National Aquaculture Information Center that
shall—

"(I) serve as a repository and clear-1 inghouse for the information collected 2 under subparagraph (A) and other provi-3 sions of this Act; 4 "(II) carry out a program to notify 5 organizations, institutions, and individuals 6 7 known to be involved in aquaculture of the existence of the Center and the kinds of in-8 formation that the Center can make avail-9 able to the public; and 10 "(III) make available, on request, in-11 formation described in subclause (I) (in-12 cluding information collected under sub-13 14 section (e));"; and 15 (B) in clause (ii), by striking the comma and inserting a semicolon; 16 17 (3) in the first sentence of subsection (d), by 18 striking "Interior,," and inserting "Interior,"; and 19 (4) by adding at the end the following new sub-20 sections: 21 "(e) Assignment of New Programs.—In consulta-22 tion with representatives of the United States aquaculture industry and in coordination with the Secretary of the In-23 terior, the Secretary of Commerce, and the heads of other 24

Federal aquatic animal health programs and make rec ommendations as to the appropriate assignment to Fed eral agencies of new programs, initiatives, and activities
 in support of aquaculture and resource stewardship and
 management.

"(f) Use of Excess Section 32 Funds.—(1)(A)(i) 6 7 Subject to subparagraphs (B) and (C), the Secretary shall expend for aquaculture export promotion, research, devel-8 9 opment, education, market development, and demonstration projects, for each fiscal year, an amount equal to the 10 aquaculture production percentage of the funds remaining 11 available to the Department for the fiscal year under sec-12 tion 32 of the Act entitled 'An Act to amend the Agricul-13 tural Adjustment Act, and for other purposes', approved 14 15 August 14, 1935 (7 U.S.C. 612c), after the application of the first 5 sentences of such section. 16

17 "(ii) As used in clause (i), the term 'aquaculture pro-18 duction percentage' means the annual weight of aqua-19 culture products of the United States divided by the an-20 nual weight of fisheries landings of the United States 21 (other than landings that are not used for human con-22 sumption).

23 "(B) The Secretary may expend all or part of the24 funds required to be expended pursuant to subparagraph

1 (A)(i) for the purpose of strengthening aquaculture mar-2 kets, income, and supply.

"(C) In determining the purposes for which the funds
required to be expended pursuant to subparagraph (A)(i)
are to be expended, the Secretary shall give high priority
to carrying out subsection (e)(2).

7 "(2) For the purpose of carrying out this Act, for 8 each fiscal year, the Secretary may expend the funds re-9 maining available to the Department for the fiscal year 10 under section 32 of the Act entitled 'An Act to amend 11 the Agricultural Adjustment Act, and for other purposes', 12 approved August 14, 1935 (7 U.S.C. 612c), after the ap-13 plication of paragraph (1).

14 "(3) For each fiscal year, if funds remain available 15 to the Department for the fiscal year under section 32 16 of such Act after the exercise (if any) of authority under 17 paragraph (2), the Secretary shall provide to the National 18 Aquaculture Information Center established under sub-19 section (c)(1)(B)(i) for activities of the Center during the 20 fiscal year the lesser of—

21 "(A) the amount of the remaining funds; or

- 22 "(B)(i) \$1,000,000; minus
- 23 "(ii) the lesser of—

24 "(I) any funds provided to the Center25 under paragraph (2); or

| ± ± |
|---|
| ''(II) \$1,000,000.''. |
| SEC. 6. COORDINATION WITH THE AQUACULTURE INDUS- |
| TRY. |
| Section 6(b) (16 U.S.C. 2805(b)) is amended— |
| (1) in paragraph (5), by striking ''and'' at the |
| end; |
| (2) in paragraph (6), by striking the period at |
| the end and inserting "; and"; and |
| (3) by adding at the end the following new |
| paragraph: |
| "(7) in order to facilitate improved communica- |
| tion and interaction among aquaculture producers, |
| the aquaculture community, the Federal Govern- |
| ment, and the coordinating group, establish a work- |
| ing relationship with— |
| "(A) the industry advisory councils of the |
| regional aquaculture centers established by the |
| Secretary under section 1475(d) of the National |
| Agricultural Research, Extension, and Teaching |
| Policy Act of 1977 (7 U.S.C. 3322(d)); and |
| "(B) national organizations, commodity as- |
| sociations, and professional societies represent- |
| ing aquaculture interests.". |
| SEC. 7. AQUACULTURE COMMERCIALIZATION RESEARCH. |
| The Act (16 U.S.C. 2801 et seq.) is amended— |
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| | 10 |
|----|--|
| 1 | (1) by redesignating sections 7 through 11 as |
| 2 | sections 14 through 18, respectively; and |
| 3 | (2) by inserting after section 6 the following |
| 4 | new section: |
| 5 | "SEC. 7. AQUACULTURE COMMERCIALIZATION RESEARCH. |
| 6 | "(a) DEFINITIONS.—As used in this section: |
| 7 | "(1) ELIGIBLE ENTITY.—The term 'eligible en- |
| 8 | tity' means a public or private research or edu- |
| 9 | cational organization, private company, regional cen- |
| 10 | ter, Federal, State, or regional agency, or individual |
| 11 | that is eligible to receive a grant or enter into a con- |
| 12 | tract under this section. |
| 13 | "(2) REGIONAL AQUACULTURE CENTER.—The |
| 14 | term 'regional aquaculture center' means an |
| 15 | aquacultural research, development, and demonstra- |
| 16 | tion center established under section 1475(d) of the |
| 17 | National Agricultural Research, Extension, and |
| 18 | Teaching Policy Act of 1977 (7 U.S.C. 3322(d)). |
| 19 | "(b) Assistance and Coordination.— |
| 20 | "(1) IN GENERAL.—The Secretary— |
| 21 | "(A) may pay the Federal share of the cost |
| 22 | of making grants and awarding contracts to eli- |
| 23 | gible entities to support aquaculture research |
| 24 | that— |

- "(i) demonstrates strong potential for
 aquaculture becoming commercially viable;
 or
- 4 "(ii) will assist the United States 5 aquaculture industry in developing aqua-6 culture products or processes that will be 7 competitive with aquaculture products or 8 processes of other countries; and

"(B) shall, acting through the executive 9 committee of the interagency aquaculture co-10 ordinating group established pursuant to sec-11 tion 6, coordinate the implementation of a re-12 search program based on the findings contained 13 14 in the report entitled 'Report of the Joint Com-15 mittee on Aquaculture Task Force on Therapeutic Compounds', published in August 1988. 16 "(2) COST SHARE.— 17

18 "(A) FEDERAL SHARE.—Except as pro19 vided in subparagraph (B), the Federal share of
20 the cost of a project carried out under—

21 ''(i) paragraph (1)(A), shall be 80
22 percent; and
23 ''(ii) paragraph (1)(B), shall be 100

''(ii) paragraph (1)(B), shall be 100 percent.

24

| 1 | "(B) REMAINING SHARE.—The remaining |
|--|--|
| 2 | share of the cost of a project carried out under |
| 3 | paragraph (1)(A) may be— |
| 4 | "(i) in the form of cash or in-kind |
| 5 | payments, or both; and |
| 6 | ''(ii) partially comprised of funds |
| 7 | made available under other Federal pro- |
| 8 | grams, except that the non-Federal share |
| 9 | of the project may not be less than 10 per |
| 10 | cent of the cost of the project. |
| 11 | "(c) PRIORITIES.—In making grants or awarding |
| 12 | contracts under subsection (b), the Secretary shall give |
| | |
| 13 | priority to— |
| 13 14 | priority to— ''(1) highly focused applied research; |
| | |
| 14 | "(1) highly focused applied research; |
| 14 15 | ''(1) highly focused applied research;''(2) investigations of new products or processes |
| 14 15 16 | ''(1) highly focused applied research;''(2) investigations of new products or processesthat demonstrate a high potential for aquaculture |
| 14 15 16 17 | ''(1) highly focused applied research; ''(2) investigations of new products or processes that demonstrate a high potential for aquaculture commercialization; |
| 14 15 16 17 18 | ''(1) highly focused applied research; ''(2) investigations of new products or processes that demonstrate a high potential for aquaculture commercialization; ''(3) market development programs for new or |
| 14 15 16 17 18 19 | ''(1) highly focused applied research; ''(2) investigations of new products or processes that demonstrate a high potential for aquaculture commercialization; ''(3) market development programs for new or improved aquaculture products or processes; |
| 14 15 16 17 18 19 20 | ''(1) highly focused applied research; ''(2) investigations of new products or processes that demonstrate a high potential for aquaculture commercialization; ''(3) market development programs for new or improved aquaculture products or processes; ''(4) field testing, commercial field trials, and |
| 14 15 16 17 18 19 20 21 | ''(1) highly focused applied research; ''(2) investigations of new products or processes that demonstrate a high potential for aquaculture commercialization; ''(3) market development programs for new or improved aquaculture products or processes; ''(4) field testing, commercial field trials, and applications of aquaculture research to private aqua- |
| 14 15 16 17 18 19 20 21 22 | "(1) highly focused applied research; "(2) investigations of new products or processes that demonstrate a high potential for aquaculture commercialization; "(3) market development programs for new or improved aquaculture products or processes; "(4) field testing, commercial field trials, and applications of aquaculture research to private aquaculture that would promote the transfer of promising |

"(6) other activities that accelerate the com mercialization of promising aquaculture technologies.
 "(d) COMPETITIVE REVIEW.—

4 "(1) IN GENERAL.—To be eligible to receive a
5 grant or enter into a contract under subsection (b),
6 a proposal shall undergo competitive review.

7 "(2) Competitive review panels.—A competitive review panel shall be composed of individuals 8 9 appointed by the Secretary, at least 50 percent of 10 whom work in private aquaculture or are private sec-11 tor representatives who understand sound business 12 practices and are qualified to objectively evaluate the 13 likelihood of a proposal being economically successful 14 or promoting economic success within the aqua-15 culture industry. Each competitive review panel shall 16 contain at least 1 representative from a regional 17 aquaculture center.

18 "(3) EVALUATION.—A competitive review panel
19 shall base an evaluation of a proposal under this
20 subsection on—

21 "(A) the quality of the proposal and the22 research methodology;

23 "(B) the capability of the participating or24 ganization to perform the proposed work;

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| 1 | "(C) the potential for fostering commer- |
|----|---|
| 2 | cialization, job creation, and increased sales of |
| 3 | aquaculture products; |
| 4 | "(D) the amount of matching funds pro- |
| 5 | vided by the supported entity or obtained from |
| 6 | non-Federal sources; |
| 7 | "(E) the extent of collaboration with other |
| 8 | Federal and State programs; |
| 9 | ''(F) the existence of a business plan that |
| 10 | reasonably projects the benefits of the support |
| 11 | being requested; |
| 12 | "(G) in the case of a noncommercial en- |
| 13 | tity, the existence of a cooperative agreement |
| 14 | with a commercial entity; |
| 15 | ''(H) whether the project would promote |
| 16 | responsible environmental stewardship; and |
| 17 | "(I) such other factors as the competitive |
| 18 | review panel determines to be appropriate. |
| 19 | "(e) Limitations.— |
| 20 | "(1) Regional aquaculture centers.—Not |
| 21 | less than 60 percent of the amounts made available |
| 22 | to carry out this section during a fiscal year shall be |
| 23 | used to carry out projects that will facilitate the |
| 24 | commercialization of preliminary research or inves- |

tigations that have been funded or coordinated by
 regional aquaculture centers.

3 "(2) ADMINISTRATIVE EXPENSES.—Not more 4 than 3 percent of the amounts made available to 5 carry out this section during a fiscal year may be 6 used by the Secretary for the expenses of adminis-7 tration and information collection and dissemination.

8 "(3) CONSTRUCTION COSTS.—None of the 9 funds made available under this section may be used 10 for the construction of a new building or the acquisi-11 tion, expansion, remodeling, or alteration of an exist-12 ing building (including site grading and improve-13 ment and architect fees).

"(f) REPORTS.—An eligible entity that receives a
grant or enters into a contract under a project carried out
under this section shall submit an annual progress report,
and a final report, to the Secretary that—

"(1) describes project activities and commercial
and economic accomplishments and impacts; and
"(2) in the case of an annual progress report,
includes a project plan for the subsequent year.

22 "(g) AUTHORIZATION OF APPROPRIATIONS.—There
23 are authorized to be appropriated such sums as are nec24 essary to carry out this section.".

1 SEC. 8. NATIONAL POLICY FOR PRIVATE AQUACULTURE.

2 The Act (16 U.S.C. 2801 et seq.) is amended by in-3 serting after section 7 (as added by section 7(2)) the fol-4 lowing new section:

5 "SEC. 8. IMPLEMENTATION OF NATIONAL POLICY FOR PRI6 VATE AQUACULTURE.

7 "(a) IN GENERAL.—The Secretary, in consultation 8 with the Secretary of Commerce, the Secretary of the Inte-9 rior, and the heads of other agencies, as appropriate, shall 10 coordinate and implement a national policy for private 11 aquaculture in accordance with this section.

12 "(b) DEPARTMENT AQUACULTURE PLAN.—

"(1) IN GENERAL.—The Secretary shall develop
and implement a Department Aquaculture Plan (referred to in this section as the 'plan') for a unified
Department aquaculture program, coordinated by
the Director of the Office of Aquaculture of the Department, to support the development of private
United States aquaculture.

20 "(2) ELEMENTS OF PLAN.—The plan shall ad21 dress—

"(A) individual agency programs related to
aquaculture in the Department that are consistent with Department programs applied to other
agricultural programs, livestock, crops, prod-

| 1 | ucts, and commodities under the jurisdiction of |
|----|--|
| 2 | Department agencies; |
| 3 | ''(B) the treatment of cultivated aquatic |
| 4 | animals as livestock and cultivated aquatic |
| 5 | plants as agricultural crops; and |
| 6 | "(C) means for effective coordination and |
| 7 | implementation of aquaculture activities and |
| 8 | programs within the Department, including in- |
| 9 | dividual agency commitments of personnel and |
| 10 | resources. |
| 11 | "(3) DEADLINE.—Not later than 1 year after |
| 12 | the date of enactment of the National Aquaculture |
| 13 | Development, Commercialization, and Promotion Act |
| 14 | of 1993, the Secretary shall submit the plan to Con- |
| 15 | gress. |
| 16 | "(4) REPORTS.—Not later than 1 year after the |
| 17 | date of the submission of the plan pursuant to para- |
| 18 | graph (3), and annually thereafter, the Secretary |
| 19 | shall report to Congress on actions taken to imple- |
| 20 | ment the plan during the year preceding the date of |
| 21 | the report. |
| 22 | "(5) NATIONAL AQUACULTURE INFORMATION |
| 23 | CENTER.— |
| 24 | "(A) IN GENERAL.—In carrying out sec- |
| 25 | tion 5, the Secretary shall maintain and sup- |

| 1 | port the National Aquaculture Information |
|----|--|
| 2 | Center (referred to in this paragraph as the |
| 3 | 'Center') as a repository for information on na- |
| 4 | tional and international aquaculture. |
| 5 | "(B) PUBLIC ACCESS.—Information in the |
| 6 | Center shall be made available to the public. |
| 7 | "(C) INTERNATIONAL EXCHANGE.—The |
| 8 | head of the Center shall arrange with foreign |
| 9 | nations for the exchange of information relating |
| 10 | to aquaculture and shall support a translation |
| 11 | service. |
| 12 | "(D) SUPPORT.—The Center shall provide |
| 13 | direct support to the coordinating group. |
| 14 | "(c) National Aquaculture Development |
| 15 | PLAN.— |
| 16 | "(1) IN GENERAL.—Not later than 1 year after |
| 17 | the date of enactment of the National Aquaculture |
| 18 | Development, Commercialization, and Promotion Act |
| 19 | of 1993, the Secretary shall revise the National |
| 20 | Aquaculture Development Plan required to be estab- |
| 21 | lished under section 4. |
| 22 | "(2) COORDINATION.—The Secretary shall inte- |
| 23 | grate and coordinate the aquaculture and related |
| 24 | |

of individual aquaculture plans of the coordinating
 group members.

3 "(3) SUBMISSION TO CONGRESS.—Not later
4 than 1 year after the date of enactment of the Na5 tional Aquaculture Development, Commercialization,
6 and Promotion Act of 1993, the Secretary shall sub7 mit a revised Plan to Congress.

8 "(4) UPDATES.—Not later than 5 years after 9 the date of the submission of the revised Plan pursu-10 ant to paragraph (3), and annually thereafter, the 11 Secretary shall revise the National Aquaculture De-12 velopment Plan.

13 "(d) TREATMENT OF AQUACULTURE.—The Sec-14 retary shall, for all purposes, treat—

15 "(1) private aquaculture as a form of agri-16 culture; and

17 "(2) aquaculture products produced by private
18 persons and moving in standard commodity channels
19 as agricultural commodities.

"(e) RESOLUTION OF INTERAGENCY CONFLICT.—In
consultation with representatives of affected Federal agencies, the Secretary shall be responsible for resolving any
interagency conflict in the coordination or implementation
of the policy described in this section.

| 1 | "(f) Private Aquaculture Policy Coordina- |
|----|--|
| 2 | tion, Development, and Implementation.— |
| 3 | "(1) RESPONSIBILITY.—The Secretary shall |
| 4 | have overall responsibility for coordinating, develop- |
| 5 | ing, and carrying out policies and programs for pri- |
| 6 | vate aquaculture. |
| 7 | "(2) DUTIES.—The Director of the Office of |
| 8 | Aquaculture of the Department shall— |
| 9 | "(A) represent the Secretary in all inter- |
| 10 | departmental functions and activities relating to |
| 11 | private aquaculture; |
| 12 | "(B) coordinate all intradepartmental |
| 13 | functions and activities relating to private aqua- |
| 14 | culture; |
| 15 | "(C) establish formal structures and proce- |
| 16 | dures for the coordination of functions, and |
| 17 | consultation, with the coordinating group; |
| 18 | "(D) recommend to the National Agricul- |
| 19 | tural Library methods by which the aquaculture |
| 20 | resources of the Library can be made more eas- |
| 21 | ily retrievable and can be more widely dissemi- |
| 22 | nated; and |
| 23 | "(E) report directly to the Secretary in |
| 24 | carrying out the duties of the Director. |
| 25 | "(3) Liaison with the office.— |

26

"(A) AGENCIES OF THE DEPARTMENT.— 1 2 To facilitate communication and interaction be-3 tween the aquaculture community and the De-4 partment, the head of each agency of the De-5 partment shall designate an officer or employee 6 of the agency to be the liaison of the agency 7 with the Office of Aquaculture of the Depart-8 ment.

9 "(B) DEPARTMENTS OF COMMERCE AND 10 INTERIOR.—The Secretary of Commerce and 11 the Secretary of the Interior shall each des-12 ignate an officer or employee of their respective 13 Departments to be the liaison of their respec-14 tive Departments with the Office of Aqua-15 culture of the Department.".

16 SEC. 9. POLLUTION ASSESSMENT.

The Act (16 U.S.C. 2801 et seq.) is amended by inserting after section 8 (as added by section 8) the following new section:

20 "SEC. 9. POLLUTION ASSESSMENT.

21 "(a) ASSESSMENT.—The Administrator of the Envi-22 ronmental Protection Agency is authorized to carry out, 23 in consultation with the Secretary, collaborative inter-24 agency programs that demonstrate the application of 25 aquaculture to environmental enhancement and assess1 ment, including a program to assess the impact of pollu2 tion on aquatic organisms and ecosystems using aqua3 culture-raised fish to serve as an indicator of environ4 mental pollution.

5 "(b) GRANTS; COOPERATIVE AGREEMENTS.—The 6 Administrator may provide grants or enter into coopera-7 tive agreements or contracts with private research organi-8 zations for research and demonstration of the technology 9 authorized by this section.".

10 SEC. 10. NATIVE AMERICAN FISHPOND REVITALIZATION.

11 The Act (16 U.S.C. 2801 et seq.) is amended by in-12 serting after section 9 (as added by section 9) the follow-13 ing new section:

14 "SEC. 10. NATIVE AMERICAN FISHPOND REVITALIZATION.

15 "(a) DEFINITION OF NATIVE AMERICAN.—As used16 in this section, the term 'Native American' means—

17 "(1) an Indian, as defined in section 4(d) of the
18 Indian Self-Determination and Education Assistance
19 Act (25 U.S.C. 450b(d));

"(2) a Native Hawaiian, as defined in section
8(3) of the Native Hawaiian Health Care Act of
1988 (42 U.S.C. 11707(3)) or section 815(3) of the
Native American Programs Act (42 U.S.C.
2992c(3));

"(3) an Alaska Native, within the meaning pro vided for the term 'Native' in section 3(b) of the
 Alaska Native Claims Settlement Act (43 U.S.C.
 1602(b)); and

5 "(4) a Pacific Islander, within the meaning of
6 the Native American Programs Act of 1974 (42
7 U.S.C. 2991 et seq.)

8 "(b) AUTHORIZATION OF PROGRAM.—The Secretary 9 of Agriculture is authorized to carry out a program to revi-10 talize fishponds used by Native Americans to cultivate 11 aquatic species.

"(c) GRANTS; COOPERATIVE AGREEMENTS.—The 12 Secretary may provide grants or enter into cooperative 13 agreements with individuals and organizations, including 14 Native American organizations, to promote fishpond revi-15 talization. Funds provided under this section may be used 16 to engage in fishpond research, pond culture technology 17 development, the application of traditional pond culture 18 techniques and modern aquaculture practices to ancient 19 fishponds, technical assistance and technology transfer, 20 and such other activities as the Secretary determines are 21 22 appropriate.".

1 SEC. 11. DISASTER ASSISTANCE FOR AQUACULTURE 2 FARMS. 3 (a) IN GENERAL.—The Act (16 U.S.C. 2801 et seq.) is amended by inserting after section 10 (as added by sec-4 5 tion 10) the following new section: 6 "SEC. 11. DISASTER ASSISTANCE FOR AQUACULTURE 7 FARMS. 8 "(a) DEFINITIONS.—As used in this section: "(1) DAMAGING WEATHER.—The term 'damag-9 10 ing weather' includes drought, hail, excessive moisture, flooding, freeze, tornado, hurricane, earth-11 quake, or excessive wind, or any combination there-12 of. 13 "(2) ELIGIBLE AQUACULTURE FARMER.—The 14 term 'eligible aquaculture farmer' means a person 15 16 who produces aquaculture crops for commercial pur-17 poses and devotes 100 acres or less to aquaculture 18 cultivation. 19 "(3) RELATED CONDITION.—The term 'related 20 condition' includes insect infestations, plant diseases,

condition includes insect intestations, plant diseases,
or other deterioration of a crop of an aquatic species, including aflatoxin, that is accelerated or exacerbated naturally as a result of damaging weather
occurring prior to or during harvest.

25 "(b) ELIGIBILITY.—

"(1) Loss.—Subject to the limitation in paragraph (2), the Secretary shall provide assistance, as
specified in subsection (c), to eligible aquaculture
farmers who suffered losses (including losses due to
mortality, crop destruction, or unmarketability) of
an aquatic crop as a result of damaging weather or
related condition.

8 "(2) LIMITATION.—An eligible aquaculture 9 farmer shall qualify for assistance under paragraph 10 (1) only if the loss, as a result of damaging weather 11 or related condition, exceeds 35 percent of the aqua-12 culture yield, as determined under subsection (d), 13 for the aquaculture crop.

14 "(c) Assistance.

15 "(1) PAYMENT RATE.—The Secretary shall
16 make payments to eligible aquaculture farmers at a
17 rate equal to 65 percent of the applicable payment
18 level under paragraph (2), as determined by the Sec19 retary, for any losses.

20 "(2) PAYMENT LEVEL.—For the purposes of
21 paragraph (l), the payment level for an aquaculture
22 crop shall equal the simple average price received by
23 producers of the commodity as determined by the
24 Secretary.

"(3) CROP-BY-CROP BASIS.—The Secretary
 shall make disaster payments under this section on
 a crop-by-crop basis for each type of aquatic species
 produced.

5 "(d) YIELDS.—

6 "(1) PROVEN YIELDS AVAILABLE.—If an eligi-7 ble aquaculture farmer can provide satisfactory evi-8 dence to the Secretary of actual aquaculture crop 9 yields on the farm for at least 1 of the immediately 10 preceding 3 years, the aquaculture yield for the farm 11 shall be based on proven yield.

12 "(2) PROVEN YIELDS NOT AVAILABLE.—If the 13 data referred to in paragraph (1) do not exist for 14 any of the 3 preceding years, the Secretary shall es-15 tablish a yield for the farm by using the historical 16 average yield of all producers of the aquaculture 17 crop.

18 "(3) BEST AVAILABLE DATA.—In establishing 19 historic average yields where proven yields are not 20 available, the Secretary shall use the best available 21 information concerning yields. The information may 22 include Extension Service records, credible non-23 governmental studies, and yields at similar aqua-24 culture farms. "(e) REGULATIONS.—The Secretary shall issue regu lations—

3 "(1) defining the term 'person' for the purposes
4 of this section, which shall conform, to the extent
5 practicable, to the regulations issued under section
6 1001 of the Food Security Act of 1985 (7 U.S.C.
7 1308) and chapter 3 of subtitle B of title XXII of
8 the Food, Agriculture, Conservation, and Trade Act
9 of 1990 (7 U.S.C. 1421 note); and

10 "(2) prescribing such rules as the Secretary de11 termines necessary to ensure a fair and reasonable
12 application of this section.".

(b) REPORT ON CROP INSURANCE PROGRAM FOR
AQUACULTURE FARMING.—Not later than 1 year after
the date of enactment of this Act, the Secretary of Agriculture shall report to the appropriate committees of Congress on the feasibility of establishing a crop insurance
program for aquaculture farming.

19 SEC. 12. AQUACULTURE EDUCATION.

The Act (16 U.S.C. 2801 et seq.) is amended by inserting after section 11 (as added by section 11) the following new section:

23 "SEC. 12. AQUACULTURE EDUCATION.

24 "(a) DEFINITIONS.—As used in this section:

1 "(1) POSTSECONDARY VOCATIONAL INSTITU-2 TION.—The term 'postsecondary vocational institu-3 tion' has the same meaning given the term by sec-4 tion 481(c) of the Higher Education Act of 1965 5 (20 U.S.C. 1088(c)), except that the term only in-6 cludes an institution that awards an associates de-7 gree but does not award a bachelor's degree.

8 "(2) SECONDARY SCHOOL.—The term 'second-9 ary school' has the same meaning given the term by 10 section 1471(21) of the Elementary and Secondary 11 Education Act of 1965 (20 U.S.C. 2891(21)).

12 "(b) AUTHORIZATION OF PROGRAM.—The Secretary 13 is authorized to establish a program to expand and im-14 prove instruction, on aquaculture and the basic principles 15 of aquaculture farming, in the agriculture curriculum for 16 students attending secondary schools and postsecondary 17 vocational institutions.

18 "(c) GRANTS AND CURRICULUM.—In carrying out19 subsection (b), the Secretary may—

20 "(1) make grants to—

21 "(A) establish and maintain aquaculture
22 learning centers in secondary schools and post23 secondary vocational institutions;

24 ''(B) promote aquaculture technology25 transfer; and

| 1 | "(C) educate consumers and the public |
|----|--|
| 2 | concerning the benefits of aquaculture; and |
| 3 | "(2) develop curriculum and supporting mate- |
| 4 | rials on aquaculture farming, field test the content |
| 5 | of the curriculum, and supply training to educators |
| 6 | at secondary schools and postsecondary vocational |
| 7 | institutions on the aquaculture curriculum and ma- |
| 8 | terials developed. |
| 9 | "(d) PRIORITY FOR GRANTS.—In awarding grants |
| 10 | under subsection (c)(1), the Secretary shall give priority |
| 11 | to— |
| 12 | "(1) the ability of the proposed aquaculture |
| 13 | learning center to gain access to— |
| 14 | ''(A) a commercial aquaculture farm; |
| 15 | ''(B) a regional aquaculture center estab- |
| 16 | lished by the Secretary under section 1475(d) |
| 17 | of the National Agricultural Research, Exten- |
| 18 | sion, and Teaching Policy Act of 1977 (7 |
| 19 | U.S.C. 3322(d)); |
| 20 | ''(C) an aquaculture research facility; or |
| 21 | ''(D) a similar venture that would afford |
| 22 | students the opportunity to experience aqua- |
| 23 | culture research and development or commer- |
| 24 | cialization; |

"(2) the ability of the center to achieve out-

| 2 | reach to minority audiences or students in inner-city |
|--|---|
| 3 | schools; |
| 4 | "(3) the ability of the center to foster aware- |
| 5 | ness of aquaculture among consumers and the gen- |
| 6 | eral public; |
| 7 | "(4) the ability of the center to serve as an |
| 8 | aquaculture education facility for visiting students |
| 9 | participating in a field trip or a similar educational |
| 10 | experience for inservice training; and |
| 11 | "(5) the level of assistance to be provided from |
| 12 | non-Federal sources. |
| 13 | "(e) Limitation.— |
| 14 | "(1) IN GENERAL.—Except as provided in para- |
| 15 | graph (2), a grantee may not receive a grant under |
| 16 | this section for more than 5 fiscal years. |
| 17 | "(2) WAIVER.—In the case of grantees that re- |
| 18 | ceive grants under this section for fiscal year 1995, |
| 19 | the Secretary may waive the application of para- |
| 20 | graph (1) to the grantees for the fiscal year if the |
| 21 | Secretary determines that the application of para- |
| 22 | graph (1) to the grantees would result in the termi- |
| 23 | nation of an excessive number of grants.". |
| | |
| 15 16 17 18 19 20 21 22 | graph (2), a grantee may not receive a grant under this section for more than 5 fiscal years. "(2) WAIVER.—In the case of grantees that re- ceive grants under this section for fiscal year 1998 the Secretary may waive the application of para graph (1) to the grantees for the fiscal year if the Secretary determines that the application of para graph (1) to the grantees would result in the term |

3 The Act (16 U.S.C. 2801 et seq.) is amended by in-4 serting after section 12 (as added by section 12) the fol-5 lowing new section:

6 "SEC. 13. INTERNATIONAL AQUACULTURE SCIENTIFIC EX-

CHANGE.

7

8 "(a) DEFINITION OF ELIGIBLE ENTITY.—As used in 9 this section, the term 'eligible entity' means a regional 10 aquaculture center, college, university, or nonprofit orga-11 nization engaged in aquaculture research and education 12 in the United States or a foreign country.

13 "(b) GRANTS.—The Secretary may make grants to eligible entities to defray the cost, in whole or in part, of 14 allowing aquaculture researchers and aquaculture tech-15 nologists to engage in research, education, and demonstra-16 tion at the eligible entities for periods of up to 2 years. 17 18 "(c) FUNDING.—The Secretary may use proceeds 19 from the payments referred to in section 104(a) of the Agricultural Trade Development and Assistance Act of 20 1954 (7 U.S.C. 1704(a)) to carry out this section.". 21

22 SEC. 14. AUTHORIZATION OF APPROPRIATIONS.

The first sentence of section 17 (as redesignated by section 7(1)) is amended to read as follows: "There are authorized to be appropriated to carry out this Act to the Department \$3,000,000 for each of fiscal years 1994 1 through 2000 (of which not less than \$500,000 shall be
2 used for each fiscal year to carry out the Joint Sub3 committee on Aquaculture established under section 6(a)),
4 to the Department of Commerce \$1,000,000 for each of
5 fiscal years 1994 through 2000, and to the Department
6 of the Interior \$1,000,000 for each of fiscal years 1994
7 through 2000.".

8 SEC. 15. ELIGIBILITY OF AQUACULTURE FARMERS FOR 9 FARM CREDIT ASSISTANCE.

Section 343 of the Consolidated Farm and Rural Development Act (7 U.S.C. 1991) is amended by striking "fish farming" both places it appears in paragraphs (1) and (2) and inserting "aquaculture (as the term is defined in section 3(1) of the National Aquaculture Act of 1980 (16 U.S.C. 2802(1)))".

16SEC. 16. INTERNATIONAL AQUACULTURE INFORMATION17AND DATA COLLECTION.

Section 502 of the Agricultural Trade Act of 1978
(7 U.S.C. 5692) is amended by adding at the end the following new subsection:

21 "(d) INTERNATIONAL AQUACULTURE INFORMATION22 AND DATA COLLECTION.—

23 "(1) IN GENERAL.—The Administrator of the
24 Foreign Agricultural Service shall establish and
25 carry out a program of data collection, analysis, and

| 1 | dissemination of information to provide continuing |
|--|---|
| 2 | and timely economic information concerning inter- |
| 3 | national aquaculture production. |
| 4 | "(2) CONSULTATION.—In carrying out para- |
| 5 | graph (1), the Administrator shall consult with the |
| 6 | Joint Subcommittee on Aquaculture established |
| 7 | under section 6(a) of the National Aquaculture Act |
| 8 | of 1980 (16 U.S.C. 2805(a)), and representatives of |
| 9 | the United States aquaculture industry, concerning |
| 10 | means of effectively providing data described in |
| 11 | paragraph (1) to the Joint Subcommittee and the |
| 12 | industry.". |
| 10 | |
| 13 | SEC. 17. ELIGIBILITY OF AQUACULTURE FARMS FOR EMER- |
| 13 14 | SEC. 17. ELIGIBILITY OF AQUACULTURE FARMS FOR EMER- GENCY CONSERVATION PROGRAM. |
| | |
| 14 | GENCY CONSERVATION PROGRAM. |
| 14 15 | GENCY CONSERVATION PROGRAM. Section 401 of the Agricultural Credit Act of 1978 |
| 14 15 16 | GENCY CONSERVATION PROGRAM. Section 401 of the Agricultural Credit Act of 1978 (16 U.S.C. 2201) is amended— |
| 14 15 16 17 | GENCY CONSERVATION PROGRAM. Section 401 of the Agricultural Credit Act of 1978 (16 U.S.C. 2201) is amended— (1) by inserting "or aquaculture farms" after |
| 14 15 16 17 18 | GENCY CONSERVATION PROGRAM. Section 401 of the Agricultural Credit Act of 1978 (16 U.S.C. 2201) is amended— (1) by inserting "or aquaculture farms" after "farmlands" both places it appears; and |
| 14 15 16 17 18 19 | GENCY CONSERVATION PROGRAM. Section 401 of the Agricultural Credit Act of 1978 (16 U.S.C. 2201) is amended— (1) by inserting "or aquaculture farms" after "farmlands" both places it appears; and (2) by inserting "or aquaculture farm" after |
| 14 15 16 17 18 19 20 | GENCY CONSERVATION PROGRAM. Section 401 of the Agricultural Credit Act of 1978 (16 U.S.C. 2201) is amended— (1) by inserting "or aquaculture farms" after "farmlands" both places it appears; and (2) by inserting "or aquaculture farm" after "land" each place it appears. |
| 14 15 16 17 18 19 20 21 | GENCY CONSERVATION PROGRAM. Section 401 of the Agricultural Credit Act of 1978 (16 U.S.C. 2201) is amended— (1) by inserting "or aquaculture farms" after "farmlands" both places it appears; and (2) by inserting "or aquaculture farm" after "land" each place it appears. SEC. 18. AQUACULTURE INFORMATION NETWORK REPORT. |
| 14 15 16 17 18 19 20 21 22 | GENCY CONSERVATION PROGRAM. Section 401 of the Agricultural Credit Act of 1978 (16 U.S.C. 2201) is amended— (1) by inserting "or aquaculture farms" after "farmlands" both places it appears; and (2) by inserting "or aquaculture farm" after "land" each place it appears. SEC. 18. AQUACULTURE INFORMATION NETWORK REPORT. Not later than 180 days after the date of enactment |

established by the Secretary under section 1475(d) of the
 National Agricultural Research, Extension, and Teaching
 Policy Act of 1977 (7 U.S.C. 3322(d)), universities, re search institutions, and the National Agricultural Library
 to permit an on-line link between those entities for the
 sharing of data, publication, and technical assistance in formation involving aquaculture.

8 SEC. 19. IMPLEMENTATION REPORT.

9 (a) IN GENERAL.—Not later than 180 days after the 10 date of enactment of this Act, the Secretary of Agriculture 11 shall report to Congress on the progress made in carrying 12 out this Act and the amendments made by this Act.

13 (b) CONTENTS.—The report required by subsection14 (a) shall include—

(1) a description of all programs and activities
of the Department of Agriculture and all other agencies and Departments in support of private aquaculture;

(2) the specific authorities for the activities de-scribed in paragraph (1); and

(3) recommendations for such actions as the
Secretary of Agriculture determines are necessary to
improve recognition and support of private aquaculture in each agency of the Department of Agriculture.

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